




**ECL CANADA**  
AN ECL GROUP COMPANY

**DEVON CANADA CORPORATION**

**DEVON EAGLE PLAINS**

**300K586610136450  
EAGLE PLAINS, YUKON TERRITORIES**

<b>PERMIT TO PRACTICE</b> <b>ECL CANADA</b>
Signature 
Date <u>April 11, 2005</u>
<b>PERMIT NUMBER: P 4348</b>
The Association of Professional Engineers, Geologists and Geophysicists of Alberta

GEOLOGICAL REPORT  
ON  
DEVON EAGLE PLAINS  
300K586610136450  
EAGLE PLAINS, YUKON TERRITORIES  
FOR  
DEVON CANADA CORPORATION

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February - March, 2005

Carey Brisbois, B. Sc., P. Geol.  
Wellsite Geologist

EXPLORATION CONSULTANTS (CANADA) LTD.

## WELL DATA SUMMARY

WELL NAME	Devon Eagle Plains
LEGAL LOCATION	66°07'34.8"N, 136°55'27.6"W
UNIQUE WELL I.D.	300K586610136450
SURFACE LOCATION	66°07'34.8"N, 136°55'27.6"W
FIELD/REGION	Eagle Plains / Yukon Ter.
OPERATOR	Devon Canada Corp.
<b><u>SITE DATA</u></b>	
BOTTOMHOLE COORDINATES	N 35.05m, E 36.44m from surface coordinates
SURFACE COORDINATES	66°07'34.8"N, 136°55'27.6"W
SEISMIC LOCATION	n/a
WELL CLASSIFICATION	Explor. Wildcat
AFE NUMBER	5270083
DRILLING CONTRACTOR	Ensign Drilling Rig # 55
<b><u>ELEVATIONS</u></b>	
GROUND LEVEL	599.3 (m)
KELLY BUSHING	604.3 (m)
<b><u>DRILLING DATES</u></b>	
SPUD DATE	February 22, 2005
T.D. DATE	March 28, 2005
RIG RELEASE DATE	April 3, 2005
	TIME 21:45 hrs
	TIME 12:15 hrs
	TIME 24:00 hrs
<b><u>HOLE SIZE &amp; MUD TYPE</u></b>	
SURFACE	311mm, GelChem
INTERMEDIATE	
MAIN	222mm, GelChem
<b><u>CASING DATA</u></b>	
SURFACE	244.5mm, 53.58kg/m, J-55 set at 360.5m
INTERMEDIATE	
PRODUCTION	139.7mm, 25.5kg/m, J-55
<b><u>GEOLOGICAL DATA</u></b>	
SAMPLE INTERVAL	20m - 1278m Total Depth
GAS DETECTION INTERVAL	14m - 1278m Total Depth
CORES	sidewall with logging unit
LOGGING SUITE	PEX-LDT, HRLA-DSI
DRILL STEM TESTS	five run
<b><u>WELL STATUS</u></b>	<b>ABANDONED</b>

### FORMATION TOPS

Devon Eagle Plains  
66°07'34.8"N, 136°55'27.6"W

K.B.(m): 604.30 G.L.(m): 599.30

FORMATION	PROGNOSIS		SAMPLE		LOG	
	MD(m)	SS(m)	MD(m)	SS(m)	MD(m)	SS(m)
Fish Branch			19.0	585.3	19.5	584.8
Parkin Shale	1.3	603.0	52.5	551.8	48.0	556.3
Parkin Sand	20.3	584.0	92.0	512.3	95.0	509.3
Whitestone River	50.3	554.0	118.0	486.3	116.7	487.6
Jungle Creek (top Carbonif.)	220.3	384.0	229.0	375.3	231.2	373.1
Blackie	252.3	352.0	259.5	344.8	258.7	345.6
Hart River	388.3	216.0	437.0	167.3	441.2	163.1
S3A (Hart River section)	763.3	-159.0	882.0	-277.7	883.6	-279.3
Chance Sands	875.3	-271.0	998.0	-393.7	998.0	-393.7
S1 sequence			1183.5	-579.2	1183.3	-579.0
Canoe	1087.3	-483.0				
Ford Lake	1324.3	-720.0				
Total Depth	1374.3	-770.0	1278.0	-673.7	1278.0	-673.7



## DEVIATION SURVEYS

Devon Eagle Plains  
66°07'34.8"N, 136°55'27.6"W

<i>Depth</i>	<i>Inclination</i>
30.0	1.000°
57.0	0.500°
94.0	0.250°
140.0	1.250°
167.0	3.000°
183.0	3.000°
213.0	3.000°
241.0	2.000°
270.0	2.000°
298.0	1.750°
355.0	2.750°
396.0	3.000°
424.0	4.250°
463.0	4.000°
492.0	4.000°

March 28, 2005  
3:56 pm

Onscreen for Windows  
Survey Calculation Program  
Omni Drilling Technologies

Customer : Devon Canada Corporation  
WellName : Devon Eagle Plains K-58  
Location : K-58 (Yukon)  
          : Wildcat  
          :

Vertical Section Calculated on: 0.0000  
Survey Calculation Method: Minimum Curvature  
FileName: C:\ONSWIN31\DVNEGLEP.SR3

#	Depth Meters	Inc Degree	Azimuth Degree	TVD Meters	North Meters	East Meters	Section Meters	Dogleg /30m
0	360.50	0.00	0.00	360.50	0.00	0.00	0.00	0.00
1	369.00	2.60	52.90	369.00	0.12	0.15	0.12	9.18
2	513.90	4.00	60.70	513.65	4.57	7.18	4.57	0.30
3	528.35	4.20	57.70	528.07	5.10	8.07	5.10	0.61
4	537.95	4.20	56.90	537.64	5.48	8.66	5.48	0.18
5	547.12	4.60	54.90	546.78	5.88	9.24	5.88	1.40
6	556.29	4.60	52.90	555.92	6.31	9.84	6.31	0.52
7	565.75	4.30	48.90	565.36	6.77	10.41	6.77	1.37
8	575.38	3.70	43.30	574.96	7.24	10.89	7.24	2.23
9	585.18	3.60	36.60	584.74	7.71	11.29	7.71	1.34
10	594.96	3.80	33.50	594.50	8.23	11.65	8.23	0.87
11	604.59	3.90	33.30	604.11	8.77	12.01	8.77	0.31
12	614.26	3.60	33.40	613.76	9.30	12.36	9.30	0.93
13	623.48	3.10	34.70	622.96	9.74	12.66	9.74	1.65
14	632.83	2.80	33.90	632.30	10.14	12.93	10.14	0.97
15	642.40	2.70	32.70	641.86	10.52	13.18	10.52	0.36
16	651.57	2.70	28.70	651.02	10.90	13.40	10.90	0.62
17	661.33	2.60	27.20	660.77	11.29	13.62	11.29	0.37
18	670.86	2.50	27.60	670.29	11.67	13.81	11.67	0.32
19	680.67	2.40	28.30	680.09	12.04	14.01	12.04	0.32
20	689.87	2.50	27.00	689.28	12.39	14.19	12.39	0.37
21	699.04	2.80	21.80	698.44	12.78	14.36	12.78	1.26
22	708.61	3.10	22.20	708.00	13.23	14.55	13.23	0.94
23	718.30	3.50	21.50	717.67	13.75	14.75	13.75	1.24
24	727.78	3.40	26.10	727.14	14.27	14.98	14.27	0.93
25	737.52	3.10	29.40	736.86	14.76	15.24	14.76	1.09
26	747.17	2.50	29.40	746.50	15.17	15.47	15.17	1.87
27	756.87	2.10	26.90	756.19	15.51	15.66	15.51	1.28
28	766.08	1.80	20.20	765.40	15.80	15.78	15.80	1.23
29	775.86	1.70	8.00	775.17	16.09	15.86	16.09	1.18
30	785.03	1.70	0.40	784.34	16.36	15.88	16.36	0.74
31	794.30	1.70	354.70	793.60	16.63	15.86	16.63	0.55
32	804.12	1.70	356.10	803.42	16.92	15.84	16.92	0.13
33	813.72	1.70	356.30	813.02	17.21	15.82	17.21	0.02
34	823.33	1.70	355.40	822.62	17.49	15.80	17.49	0.08
35	832.50	1.60	354.60	831.79	17.76	15.78	17.76	0.34
36	841.70	1.50	355.40	840.98	18.00	15.76	18.00	0.33
37	850.93	1.40	354.40	850.21	18.24	15.74	18.24	0.34
38	860.36	1.50	354.00	859.64	18.47	15.71	18.47	0.32

39	870.07	1.40	354.10	869.35	18.72	15.69	18.72	0.31
40	879.27	1.30	346.20	878.54	18.93	15.65	18.93	0.69
41	888.96	1.20	343.70	888.23	19.13	15.60	19.13	0.35
42	898.62	1.00	349.50	897.89	19.31	15.55	19.31	0.71
43	908.29	1.10	353.40	907.56	19.49	15.53	19.49	0.38
44	918.02	1.10	349.40	917.29	19.67	15.50	19.67	0.24
45	927.45	1.30	352.10	926.71	19.87	15.47	19.87	0.66
46	936.97	1.40	354.50	936.23	20.09	15.44	20.09	0.36
47	946.39	1.40	2.40	945.65	20.32	15.43	20.32	0.61
48	956.21	1.20	4.00	955.47	20.54	15.45	20.54	0.62
49	965.78	1.20	15.70	965.03	20.74	15.48	20.74	0.77
50	975.21	1.10	26.00	974.46	20.92	15.55	20.92	0.73
51	984.40	1.10	26.70	983.65	21.08	15.63	21.08	0.04
52	993.68	1.30	34.90	992.93	21.24	15.73	21.24	0.85
53	1003.02	1.30	35.20	1002.27	21.41	15.85	21.41	0.02
54	1012.29	1.70	37.10	1011.53	21.61	15.99	21.61	1.30
55	1021.40	1.90	41.00	1020.64	21.83	16.17	21.83	0.77
56	1030.78	2.20	40.80	1030.01	22.09	16.39	22.09	0.96
57	1040.16	2.20	41.20	1039.38	22.36	16.63	22.36	0.05
58	1049.37	2.00	51.20	1048.59	22.59	16.87	22.59	1.36
59	1058.79	2.10	63.70	1058.00	22.77	17.15	22.77	1.46
60	1068.04	2.80	64.00	1067.24	22.94	17.51	22.94	2.27
61	1077.44	3.50	67.20	1076.63	23.16	17.98	23.16	2.30
62	1086.58	4.30	65.80	1085.75	23.41	18.55	23.41	2.64
63	1096.09	5.10	65.50	1095.23	23.73	19.26	23.73	2.52
64	1105.42	5.80	66.10	1104.51	24.09	20.07	24.09	2.26
65	1114.60	6.30	66.00	1113.64	24.48	20.95	24.48	1.63
66	1123.99	6.20	64.10	1122.98	24.91	21.88	24.91	0.73
67	1133.09	6.10	62.70	1132.02	25.35	22.75	25.35	0.59
68	1142.66	6.00	59.90	1141.54	25.83	23.63	25.83	0.98
69	1151.94	6.30	57.00	1150.77	26.35	24.48	26.35	1.40
70	1161.36	6.70	56.20	1160.13	26.94	25.37	26.94	1.31
71	1170.75	7.20	55.60	1169.45	27.58	26.31	27.58	1.61
72	1180.10	7.50	56.90	1178.72	28.24	27.30	28.24	1.10
73	1189.06	7.70	57.50	1187.60	28.88	28.30	28.88	0.72
74	1198.10	7.80	58.40	1196.56	29.53	29.33	29.53	0.52
75	1207.72	7.60	59.10	1206.09	30.20	30.44	30.20	0.69
76	1217.30	6.90	57.90	1215.60	30.83	31.47	30.83	2.24
77	1226.50	6.30	53.90	1224.74	31.42	32.34	31.42	2.46
78	1235.76	5.80	50.60	1233.94	32.02	33.12	32.02	1.97
79	1245.17	5.90	47.30	1243.31	32.65	33.84	32.65	1.12
80	1254.74	6.10	46.10	1252.82	33.33	34.57	33.33	0.74
81	1262.00	6.20	47.00	1260.04	33.87	35.13	33.87	0.57
-1	1278.00	6.42	48.98	1275.94	35.05	36.44	35.05	0.58

Closure is 50.5560 on an azimuth of 46.1150

**WELLSITE BIT RECORD**

Devon Eagle Plains  
66°07'34.8"N, 136°55'27.6"W

SPUD DATE: February 22, 2005  
T.D. DATE: March 28, 2005

SURFACE CASING: 244.5mm, 53.58kg/m, J-55 set at 360.5m

*Richard*  
Not sure how  
to scan to  
OCR  
*JM*

BIT #	1	2	3	4	5	6RR
SIZE (mm)	311	311	311	222	222	200
MAKE	Reed	Reed	Smith	Reed	Reed	Reed
TYPE	XICXP	MXR18D	F2XP	TD51X	TD44M	TD51X
SERIAL #	J17674	RR00539	YD5187	L54002	HY2303	L54002
JETS	3x14.3	3X17.5	3x14.7	3x12.7	3x12.7	3x12.7
DEPTH IN	0.00	206.00	291.00	362.00	457.00	527.00
DEPTH OUT	206.00	291.00	362.00	457.00	527.00	527.00
METRES	206.00	85.00	71.00	95.00	70.00	0.00
HOURS	30.75	22.25	15.50	29.00	40.00	0.00
ACC. HRS.	30.75	53.00	68.50	97.50	137.50	137.50
ROP (m/hr)	6.70	3.82	4.58	3.28	1.75	0.00
FOB	4-8	6	4-6	5	6	
RPM	120	140	130	140	120	
PP	3100	5700	7600	6000	5700	
DEN	1200	1180	1190	1220	1210	
VISCOSITY	70	70	62	7	63	
MAX DEV.°	3.000°	3.000°	2.750°	4.250°	4.000°	
Condition:	T/B/G	T/B/G	T/B/G	T/B/G	T/B/G	T/B/G
Condition:	IR/OR/D/L	IR/OR/D/L	IR/OR/D/L	IR/OR/D/L	IR/OR/D/L	IR/OR/D/L
	4/4/FT/A	3/3/PR/A		2/3/WT/A	4/5/FC/A	
	B/G/O/RP	B/G/O/RP	B/G/O/RP	B/G/O/RP	B/G/O/RP	B/G/O/RP
	5/I/NO/PR	3/I/NO/PR		E/I/A/PR	E/I/BT/TW	
REMARKS						circulated hole only

### WELLSITE BIT RECORD

Devon Eagle Plains  
66°07'34.8"N, 136°55'27.6"W

SPUD DATE: February 22, 2005

T.D. DATE: March 28, 2005

SURFACE CASING: 244.5mm, 53.58kg/m, J-55 set at 360.5m

BIT #	7	8	9	10	11	12
SIZE (mm)	222	222	222	222	222	222
MAKE	Hughes	Reed	Hughes	Reed	Reed	Reed
TYPE	HR-S38C	TD61A	HR-S44G	TD61A	TD53AM	TD53A
SERIAL #	6021470	JL4478	6028920	JL4474	D74378	M16005
JETS	3x12.7	3x14.3	2x14.3 1x15.9	2x14.3 1x15.9	2x14.3 1x15.9	2x14.3 1x15.9
DEPTH IN	527.00	734.00	889.00	1051.00	1102.00	1234.00
DEPTH OUT	734.00	889.00	1051.00	1102.00	1234.00	1278.00
METRES	207.00	155.00	162.00	51.00	132.00	44.00
HOURS	59.00	47.00	50.75	19.75	43.50	12.25
ACC. HRS.	444.25	491.25	542.00	561.75	605.25	617.50
ROP (m/hr)	3.51	3.30	3.19	2.58	3.03	3.59
FOB	16	16	17	16	16	16
RPM	30	35	35	35	35	35
PP	10200	11000	10800	10700	10000	10200
DEN	1285	1360	1320	1320	1305	1305
VISCOSITY	60	70	69	68	68	84
MAX DEV.°	4.600°	3.100°	2.200°	4.300°	7.800°	6.420°
Condition:	T/B/G	T/B/G	T/B/G	T/B/G	T/B/G	T/B/G
Condition:	IR/OR/D/L	IR/OR/D/L	IR/OR/D/L	IR/OR/D/L	IR/OR/D/L	IR/OR/D/L
	5/6/WT/A	7/8/BT/A	5/7/WT/A	3/3/WT/A	4/5/WT/A	2/3/WT/G
	B/G/ORP	B/G/ORP	B/G/ORP	B/G/ORP	B/G/ORP	B/G/ORP
	E/1/BT/PR	8/1/WT/PR	E/2/FC/PR	E/1/FC/HP	E/1/FC/PR	2/1/WT/TD
REMARKS						

### DAILY DRILLING SUMMARY

Devon Eagle Plains  
66°07'34.8"N, 136°55'27.6"W

Date	Depth	Progress	Drilling Hours	ROP (m/hr)	Mud Properties			Operations Summary	
					Density	Vis	WL pH		
18 Feb	0.00	0.00		0.00				spot & rig up rig	
19 Feb	0.00	0.00		0.00				rig up	
20 Feb	0.00	0.00		0.00				rig up & install divertor	
21 Feb	0.00	0.00		0.00				rig in chromatograph, wait on well licence	
22 Feb	14.00	14.00	0.25	56.00				spud and drill 311mm surface hole @ 21:45, drill out cement, stop at end of conductor barrel, conductor barrel set at 14m, work on Chimo to gas detector WITTS problem	
23 Feb	95.00	81.00	13.25	6.11	1180	78	10	work on WITTS problem, drill ahead, hand lagging gas data until WITTS and depth tracking worked, lose circulation at 95m	
24 Feb	100.00	5.00	0.50	10.00	1200	77	10	build volume, drill to 100m without returns, cement plugs #1, wait on cement, still had fluid loses, cement plug #2, wait on cement, Chimo down again	
25 Feb	115.00	15.00	4.25	3.53				drill out cement, drill ahead, partial returns to 106m, then no returns to 115m, prepare to run cement plug #3, Sanjel mix up cement	
26 Feb	142.00	27.00	1.75	15.43				cement plug #3, wait on cement, ream cement, drill with partial returns, 115-135m, with no returns (lose circulation) 135-142.9m, trip to run cement plug	
27 Feb	142.00	0.00	0.00	0.00				run in open ended, bridge, trip to pick up bit & ream to bottom, run in to cement plug #4, cement 2 plugs #4&5 from 142-38m	
28 Feb	170.00	28.00	2.50	11.20				wait on cement, ream out cement, drill ahead	
01 Mar	252.00	82.00	18.75	4.37	1180	83	12	drill 311mm surface hole, reduced weight on bit due to deviation up to 3 degrees, trip for bit #2	
02 Mar	320.00	68.00	18.75	3.63	1180	60	12	drill ahead, trip for bit #3 at 291m	
03 Mar	362.00	42.00	8.50	4.94	1180	61	12	drill surface hole to Total Depth of 362m @ 9:15, condition mud, wiper trips, come out to run casing	
04 Mar	362.00	0.00	0.00	0.00				run & cement surface casing, wait on cement, nipple up BOPs	
05 Mar	362.00	0.00	0.00	0.00				nipple up BOPs, pressure test, drill mouse hole	
06 Mar	371.00	9.00	1.00	9.00	1150	55	10	drill out cement in casing, pressure test casing, displace to mud, trip for jars, drill out shoe @ 21:30, leak off test, drill 222mm main hole	
07 Mar	449.00	78.00	20.25	3.85	1210	57	7	11	drill 222mm main hole
08 Mar	485.00	36.00	18.00	2.00	1205	59	8	11	drill 222mm main hole, trip for bit #5 at 457m, drill ahead

### DAILY DRILLING SUMMARY

Date	Depth	Progress	Drilling Hours	ROP (m/hr)	Mud Properties				Operations Summary
					Density	Vis	Wt	pH	
09 Mar	494.00	9.00	6.50	1.38	1200	60	7	11	drill 222mm main hole, twist off in collars @ 486m, make up and run in with fishing tools, recover fish, pick up new collars, run in , drill ahead
10 Mar	526.00	32.00	22.50	1.42	1220	63	6.5	11	drill ahead, survey
11 Mar	527.00	1.00	0.50	2.00	1219	63	6.5	11	twist off at 527.2m, leave 4 collar fish, wait on overshot, make up overshot, run in and recover fish, wait on collar inspector
12 Mar	527.00	0.00	0.00	0.00	1220	55	7	10	circulate, wait on collar inspector, inspect heavy weight pipe & drill collars
13 Mar	527.00	0.00	0.00	0.00	1220	63	7.5	11	run in to bottom of casing, circulate, wait on jars, foam insulate cellar, pull out of hole, pick up directional tools
14 Mar	560.00	33.00	9.00	3.67	1210	63	6.5	11	make up directional tools, wait on jars, directionally drill ahead without jars, trip for jars at 532.9m
15 Mar	636.00	76.00	22.00	3.45	1220	60	7	11	directionally drill ahead
16 Mar	705.00	69.00	18.75	3.68	1260	62	7	11	directionally drill ahead, ERP meeting
17 Mar	745.00	40.00	14.00	2.86	1300	60	7.5	11	directionally drill ahead, trip for bit#8 at 734m, shaker breakdown at 745m, trip into surface casing
18 Mar	767.00	22.00	8.25	2.67	1320	71	7	11	fix shaker, run to bottom, drill ahead, shaker break down @ 12:00, wait on shaker parts
19 Mar	825.00	58.00	17.75	3.27	1340	72	7.5	11	repair shaker, run in, back on bottom at 4:30, drill ahead
20 Mar	889.00	64.00	19.25	3.32	1360	73	7	11	drill ahead, Chimo problem, fix Chimo
21 Mar	930.00	41.00	12.25	3.35	1355	76	7	11	trip for bit # 9, drill ahead
22 Mar	994.00	64.00	20.00	3.20	1335	70	7	11	drill ahead
23 Mar	1051.00	57.00	18.50	3.08	1320	69	6	11	drill ahead, trip for bit #10 at 1051m
24 Mar	1088.00	37.00	13.75	2.69	1315	67	7.5	11	trip for bit # 10, drill ahead, repair Chimo
25 Mar	1121.00	33.00	8.00	4.13	1305	62	7.5	11	drill ahead, trip to check directional tools & bit #11
26 Mar	1197.00	76.00	22.00	3.45	1305	66	7.5	11	drill ahead
27 Mar	1238.00	41.00	15.00	2.73	1305	69	7.5	11	drill ahead, trip for bit #12 at 1234m
28 Mar	1278.00	40.00	11.25	3.56	1305	67	7.5	11	drill ahead to Total Depth, 1278m at 12:15, wiper trip, come out log, log with Schlumberger
29 Mar	1278.00	0.00	0.00	0.00					log with Schlumberger, wait on order about logging runs 3 & 4, cancelled rest of logging, run condition mud for DSTs
30 Mar	1278.00	0.00	0.00	0.00					prepare to run DST #1

### WELLSITE LOGGING REPORT

Devon Eagle Plains  
66°07'34.8"N, 136°55'27.6"W

HOLE DATA			MUD DATA		LOGGING COMPANY	
Hole Size: 222mm TD Driller: 1278.0m Strap: 1278.17m TD Logger: 1278.0m Casing Driller: 360.5m Casing Logger: 361.0m Hole Condition: good			Type: GelChem Density: 1305 Viscosity: 84 W.L.: 7.5 pH: 11		Logging Co.: Schlumberger Engineer: G. Boos Truck No.: 2025 Start Date: 28-Mar-05 Start Time: 22:00 End Date: 11:15 End Time: 29-Mar-05	
LOGGING SEQUENCE						
Run Number	Logged Interval From	To	Hours	Logs	Remarks	
1	1275.5	361	4.5	PEX-LDT		
2	1270	10	4.5	HRLA-DSI		
3				MSCT	did not run	
4				FMI	did not run	
Total Hours:			9			
LOGGING OPERATIONS SUMMARY						
Date	From	To	Description of Operation			
28 Mar 05	22:00	22:30	rig in loggers			
	22:30	3:00	log run #1			
29 Mar 05	3:00	7:30	log run #2			
	7:30	10:00	wait on orders about runs 3 and 4			
	10:00	10:15	receive orders to cancell rest of logging program			
	10:15	11:15	rig out loggers			
REMARKS & COMMENTS						

## WELL SUMMARY AND FORMATION EVALUATIONS

### DEVON EAGLE PLAINS 300K586610136450

The Devon Eagle Plains K58 is a wildcat exploration well in the Yukon Territory that was drilled to evaluate the potential for future development of the area. The well was spudded on February 22, 2005 at 21:45 hours and drilling was completed, March 28, 2005 at 12:15 hours. The target zones for this well are the Parkin Sand (secondary) and Hart River (secondary) with the Chance sand (primary). The surface hole was drilled with 311mm bits to a depth of 362m and 244.5mm casing was then run. The main hole was drilled using 222mm tri-cone bits to a total depth of 1278m.

At spud, the problem with Chimo EDR communicating with Continental Labs mudlogger was corrected. The hole depth recorder would not function from surface to 53m depth. Chimo was able to correct the problem remotely. On February 24, there was a Chimo component failure and again drilling continued without hole depth data. Both times, the crews marked meters on kelly and recorded the drilling times manually. The Chimo drill recorder was repaired at 140m.

On surface hole, circulation was lost at 95m, and multiple lost circulation pills could not stop the volume losses. Therefore, the well was drilled ahead blind without returns to 100m to get through the lost circulation zone and the crews ran cement plugs. Fluid losses continued after the first plug, so a second cement plug was set. After drilling out the cement plugs, the rig was able to drill ahead to 106m with partial returns so the 105m sample was caught. At the connection at 106.3m, all circulation was lost while working the pipe and drilling continued ahead blind to 115m where another cement plug was run to seal off the Parkin Sand. After drilling out plug #3, drilling proceeded to 142m where another lost circulation zone was penetrated. While drilling with partial returns to about 136m, the crews caught samples from 115m to 135m. Due to the continued loss of circulation at 136m, the fourth cement plug was required. On the trip out to run plug #4, the hole was tight and when running in with open ended drill pipe, the well bridged off at 28m. Crews attempted to wash past the bridge with an open ended drill string but failed. Reaming operations were concluded as a result of fluid losses at the Parkin sandstone. An open ended assembly was run to bottom and plugs 4 and 5 were set. Drilling resumed without incident and the surface hole was drilled to 362m where surface casing was set. Surface hole drilling was completed on March 3, 2005 at 9:15 hours.

Drill out of surface casing shoe occurred at 21:30 hours on March 6, 2005. The main hole was drilled using 222mm bits. While drilling the main hole, the drill string parted at 486.7m. When tripped out, it was found that it had parted in the drill collars. Fishing for the rest of the collars began using an overshot tool and it was able to capture the fish on the first attempt. The drill string parted a second time at 527.2m, also as a result of the collars twisting off. The second fish was four collars and the bit. The second fish was recovered on the first attempt. After the second fish was recovered, it was decided that all the heavy weight drill pipe and drill collars would be inspected before drilling continued. One joint of heavy weight drill pipe, four drill collars and the jars failed the inspection, therefore drilling was placed on hold until replacements arrived. Also, it was decided that Omni directional services would be used to control the deviation problem. When the directional tools and new collars arrived they were made up and the rig waited on orders to drill ahead. The jars arrived later that same day, and a trip was done to put them in the drill string. While making up the directional tools, a spray foam insulation unit came out and insulated the cellar to stop the permafrost collapse in the substructure, it was also injected under the #1 pump.

The next drilling delay was for repairs to the shaker including some time spent waiting for parts. The weld on the first repair did not last. The first breakdown happened at 734m and the second at 745m where drilling was suspended until parts arrived and were installed. During both breakdowns, the rig could not circulate so the drill string was tripped into the surface casing until the shaker was fixed.

On March 24, 2005, the Chimo pit volume and return flow failed and about two hours were needed to repair the system. At 1102.5m, a survey was taken and an unexpected inclination was recorded. The well had increased in deviation while rotating from about 1000m, so two slides were done to correct the deviation. When the survey below the first slide displayed an increase in deviation when a decrease was expected, a trip was done to determine whether there was a problem with the directional tools. No problems were noted.

Drilling continued with two more bit trips. On the afternoon of Monday, March 28, 2005, Devon decided that drilling would end and drilling was halted at 1278.0m. After a wiper trip, the drill string was tripped out to run wireline logs with Schlumberger. The logging program was four runs. Run #1 was Schlumberger's PEX-LDT tool, the data was transmitted to Calgary during run #2 which was, HRLA-DSI tools. On March 29, 2005, while finishing logging run #2, Devon was to select points for the sidewall coring on run #3. The sidewall coring program and FMI log were cancelled. From the logging information and geological samples, Devon decided that some drill stem tests would be run. The run was eventually abandoned.

Samples were not caught due to lack of returns while drilling ahead blind in lost circulation zones at 100m, 110m, 115m & 140m on surface hole. Samples were collected below the conductor barrel at 20.0 meters to total depth for Devon Canada Ltd. and the Yukon government. A Continental Labs Ltd. gas chromatograph was used from 14m to Total Depth.

## PRIMARY ZONE:

### CHANCE SAND 998.0 m MD (-393.7 m SS)

The Chance Sand is the porous section within the S3A sand of the Hart River Formation. The S3A sand top is at 976m, -371.7m subsea and the base was at 1034m, as described from samples. The S3A is light grey to salt and pepper with a grain size of very fine to upper coarse. In the low porosity sections, the coarse grained component is missing. The grains are poorly sorted and subrounded to rounded. **The tight sand sections are mainly 60% quartz grains, 10% dark minerals and 30% calcite cement, but the Chance sand and other porosity zones are 75% quartz, 15% dark minerals and 10% calcite cement.** Through the S3A sand there is minor amounts of a grey chert. **In the Chance sand, rare light brown oil staining was seen and 3% to 9% intergranular porosity. A yellow brown fluorescence and weak white massive oil cut was one of the better shows. The rest are poor shows mainly seen as spotted yellow brown fluorescence and white halo cut. There was a slight gas response above the background readings in the sand for the Chance Sand porosity section.**

**CONCLUSION: The Chance Sand shows some economic potential.**

## SECONDARY ZONE:

### PARKIN SAND 92.0 m MD (512.3 m SS)

The Parkin Sand is light brown to light grey in colour with minor red brown colouration. The sand is composed of 50% quartz and grains, 25% chert pebbles, 10% other dark minerals, 15% calcite cement and iron stained clay matrix. The grains are fine to coarse in size, poorly sorted, and subangular to subrounded. In some of the samples, there is a conglomerate portion, where the sand grades to a pebble conglomerate. **Porosity ranged from 6 to 12% intergranular porosity, which is controlled by the sand since the conglomerate is matrix supported. No oil shows were observed and no gas readings beyond the background were seen.** The Parkin Sand was a lost circulation zone where five cement plugs had to set. Sample quality for this zone was poor due to drilling cement the lost circulation material. Also, the 100m, 110m and 115m samples are missing due to drilling ahead without returns. There was no gas data where there were no mud returns.

**CONCLUSION: The Parkin Sand shows no economic potential.**

## LITHOLOGICAL DESCRIPTIONS

DEVON EAGLE PLAINS  
300K586610136450

- 14-19 m      **SHALE:** light to medium grey, micromicaceous, firm, blocky, siliceous, trace silt grains.
- FISH BRANCH 19.0 m (585.3 m SS)**
- 19-21 m      **SANDSTONE:** light grey to light brown, 65% quartz, 10% dark minerals, 15% calcareous cement, 10% argillaceous matrix, silt to fine grain, subangular, moderately sorted, consolidated, minor chert, rare coal, grades to sandy siltstone in part, **tight to 3% intergranular porosity, no shows.**
- 21-23.5 m      **SHALE:** light to medium grey, micromicaceous, firm, blocky, siliceous, trace silt grains.
- 23.5-28 m      **SILTSTONE:** light to medium grey, 65% quartz, 10% dark minerals, 15% siliceous and calcareous cement, 10% argillaceous matrix, silt to minor very fine grained, subangular, moderately sorted, consolidated, minor chert, **tight, no shows**, minor sandstone beds as above.
- 28-30 m      **SHALE:** light to medium grey, micromicaceous, firm, blocky, siliceous, trace silt grains.
- 30-32 m      **SANDSTONE:** light grey to light brown, 65% quartz, 10% dark minerals, 15% calcareous cement, 10% argillaceous matrix, silt to fine grain, subangular, moderately sorted, consolidated, minor chert, rare coal, grades to sandy siltstone in part, **tight to 3% intergranular porosity, no shows.**
- 32-34 m      **SILTSTONE:** as above.
- 34-37 m      **SHALE:** light to medium grey, micromicaceous, firm, blocky, siliceous, trace silt grains.
- 37-39 m      **SILTSTONE:** light to medium grey, 65% quartz, 10% dark minerals, 15% siliceous and calcareous cement, 10% argillaceous matrix, silt to minor very fine grained, subangular, moderately sorted, consolidated, minor chert, minor sandstone stringers, rare coal, **tight, no shows.**



- 39-41 m **SHALE:** light to medium grey, micromicaceous, firm, blocky, siliceous, trace silt grains.
- 41-42 m **CLAYSTONE:** light grey, soft, siliceous.
- 42-45 m **SHALE:** light to medium grey, micromicaceous, firm, blocky, siliceous.
- 45-48 m **SANDSTONE:** light brown, 75% quartz, 10% dark minerals, 15% calcareous cement, silt to fine grain, subangular, moderately sorted, consolidated, minor chert, minor siltstone stringers, **tight to 3% intergranular porosity, no shows.**
- 48-52.5 m **SHALE:** light to medium grey, micromicaceous, firm, blocky, siliceous, silty, minor sandstone stringers.
- PARKIN SHALE 52.5 m (551.8 m SS)**
- 52.5-65 m **SHALE:** light grey, siliceous, firm, rare pyrite, blocky, trace sandstone stringers.
- 65-70 m **SHALE:** light grey, siliceous, firm, blocky, trace sandstone stringers, abundant clay, grades to claystone;  
**CLAYSTONE:** light grey, soft.
- 70-92 m **SHALE:** light grey, firm, blocky, trace sandstone stringers, abundant clay, grades to claystone;  
**CLAYSTONE:** light grey, soft.
- PARKIN SAND 92.0 m (585.3 m SS)**
- 92-95 m **SANDSTONE:** light grey, 75% quartz, 15% dark minerals, 10% calcareous cement, silt to medium grains, subangular to subrounded, poorly sorted, minor clay, minor chert, minor siltstone stringers, trace shale stringers, **3 to 6% intergranular porosity, no shows, poor sample due to lose circulation material.**
- 95-100 m **NO SAMPLE:** due to drilling ahead with no returns.
- 100-105 m **SANDSTONE:** light brown to light grey to minor red brown, 50% quartz grain, 25% chert pebble, 10% dark minerals, 15% calcareous cement and iron stained clay matrix, subangular to subrounded, chert pebble subrounded to rounded, fine to coarse grains, poor sorted, minor chert, **6 to 12% intergranular porosity, faint blue fluorescence, no cut, no shows, grades to pebble conglomerate in part, minor lose circulation material.**

- 105-115 m **NO SAMPLE:** due to drilling ahead with no returns.
- 115-120 m **SANDSTONE:** as above;  
**SHALE:** light to medium grey, very fine texture, silty, blocky, very poor sample, over 80% cement plug and shale cavings.
- WHITESTONE RIVER 118.0 m (486.3 m SS)**
- 120-134 m **SHALE:** light to medium grey, very fine texture, silty, minor siltstone and sandstone stringers, blocky, minor cement plug cavings.
- 134-135 m **SHALE:** light to medium grey, very fine texture, minor clay, blocky, minor cement plug cavings.
- 135-142 m **NO SAMPLE:** due to drilling ahead with no returns.
- 143-145 m **SHALE:** light to medium grey, trace light brown, very fine texture, silty, blocky, abundant cement plug cavings.
- 145-150 m **SHALE:** light to medium grey, very fine texture, silty, blocky, minor cement plug cavings.
- 150-155 m **SHALE:** light to medium grey, very fine texture, silty, trace siltstone stringers, blocky, trace cement plug cavings.
- 155-160 m **SHALE:** light to medium grey, very fine texture, silty, sly calcareous, trace siltstone stringers, blocky.
- 160-165 m **SHALE:** light grey, very fine texture, calcareous, minor clay, blocky.
- 165-170 m **SHALE:** light grey, very fine texture, calcareous, minor clay, soft, blocky.
- 170-175 m **SHALE:** light grey, very fine texture, calcareous, trace clay, trace siltstone stringers, trace argillaceous limestone stringers, blocky.
- 175-180 m **SHALE:** light grey, very fine texture, calcareous, trace clay, trace argillaceous limestone stringers, blocky.
- 180-190 m **SHALE:** light grey, very fine texture, calcareous, trace argillaceous limestone stringers, rare chert, rare pyrite, blocky.

- 190-215.5 m **SHALE:** light grey, very fine texture, calcareous, rare argillaceous limestone stringers, rare pyrite, blocky.
- 215.5-220 m **SHALE WITH LIMESTONE: BEDS:**  
**SHALE:** light grey to medium brown grey, waxy to very fine texture, calcareous, blocky;  
**LIMESTONE:** translucent brown to minor white, cryptocrystalline, **tight, no shows.**
- 220-229 m **SHALE:** medium grey, very fine texture to trace waxy, micromicaceous, calcareous, rare limestone stringers, blocky.
- JUNGLE CREEK 229.0 m (375.3 m SS)**
- 229-238 m **SHALE:** light to medium grey, very fine texture, calcareous, trace pyrite, blocky, minor sandstone beds;  
**SANDSTONE:** light grey, 60% quartz grains, 10% dark minerals, 30% argillaceous matrix and calcareous cement, silt to fine grain, subangular, well sorted, trace chert, rare pyrite, **tight, no shows.**
- 238-242 m **SANDSTONE:** light grey, 65% quartz grains, 10% dark minerals, 25% argillaceous matrix and calcareous cement, silt to fine grain, minor medium grains, subangular, moderately sorted, trace chert, rare pyrite, **tight to 6% intergranular porosity, no shows.**
- 242-245 m **SHALE:** light to medium grey, very fine texture, calcareous, trace pyrite, sandy, blocky.
- 245-249.5 m **SHALE:** light to medium grey, silty, calcareous, trace pyrite, rare glauconitic, grades to argillaceous siltstone, blocky.
- 249.5-251.5 m **SANDSTONE:** light grey, 80% quartz grains, 10% dark minerals, 10% calcareous cement, very fine to medium grain, subangular, moderately sorted, trace chert, rare pyrite, **3 to 9% intergranular porosity, faint white fluorescence, good massive white cut, fair show.**
- 251.5-253.5 m **SHALE:** light to medium grey, silty, calcareous, trace pyrite, grades to argillaceous siltstone, blocky.
- 253.5-256 m **SANDSTONE:** as above.

- 256-258 m **SILTSTONE:** 60% quartz grains, 10% dark minerals, 30% argillaceous matrix and calcareous cement, silt to minor very fine grain, subangular, well sorted, trace chert, trace pyrite, **tight, no shows.**
- 258-259.5 m **SHALE:** light to medium grey, silty, calcareous, trace pyrite, grades to argillaceous siltstone, blocky.
- BLACKIE 259.5 m MD (344.8 m SS)**
- 259.5-271 m **SHALE:** light to medium grey, very fine texture, calcareous, firm, rare pyrite, rare light grey limestone, blocky.
- 271-273 m **SHALE:** light to medium grey, fine texture, very calcareous, trace glauconitic, rare pyrite, blocky, grades argillaceous limestone in part.
- 274-278 m **LIMESTONE:** light brown to light grey, microcrystalline to very fine crystalline, argillaceous, very fine granular to minor vitreous texture, trace glauconitic, rare pyrite, **tight to 3% intercrystalline porosity, yellow brown fluorescence, white halo to massive cut, fair show.**
- 278-282.5 m **LIMESTONE:** light brown, very fine crystalline, very fine granular, rare glauconitic, rare pyrite, trace argillaceous grains, **3 to 9% intercrystalline porosity, yellow brown fluorescence, bright white massive cut, good show.**
- 282.5-285 m **SHALE:** light to medium grey, very fine texture, very calcareous, blocky, grades argillaceous limestone in part.
- 285-295 m **INTERBEDDED SHALE AND LIMESTONE:**  
**SHALE:** light to medium grey, very fine texture, very calcareous, blocky, grades argillaceous limestone in part;  
**LIMESTONE:** light grey, microcrystalline to very fine texture, chalky to trace vitreous, argillaceous, **tight, faint yellow brown fluorescence, plant white weak halo cut, poor show.**
- 295-300 m **INTERBEDDED SHALE AND LIMESTONE:**  
**SHALE:** light to medium grey, very fine texture, very calcareous, blocky, grades argillaceous limestone in part;  
**LIMESTONE:** light grey, microcrystalline to very fine texture, chalky to trace vitreous, argillaceous, **tight, no shows.**

- 300-310 m      **INTERBEDDED SHALE AND LIMESTONE:**  
  
**SHALE:** light to medium grey, very fine texture, very calcareous, blocky, grades argillaceous limestone in part;  
  
**LIMESTONE:** light grey, microcrystalline to very fine texture, chalky to trace vitreous, slightly argillaceous, rare pyrite, **tight, no shows.**
- 310-311.5 m      **LIMESTONE:** light grey to light brown, cryptocrystalline to microcrystalline, vitreous to minor chalky, rare fossil fragments, **tight, no shows.**
- 311.5-314 m      **LIMESTONE:** light grey, microcrystalline to very fine texture, chalky to trace vitreous, slightly argillaceous, rare pyrite, trace shale stringers, **tight, no shows.**
- 314-315 m      **LIMESTONE:** light grey to light brown, cryptocrystalline to microcrystalline, vitreous to minor chalky, rare fossil fragments, **tight, no shows.**
- 315-323.5 m      **INTERBEDDED SHALE AND LIMESTONE:**  
  
**SHALE:** light to medium grey, fine texture, very calcareous, blocky, grades argillaceous limestone in part;  
  
**LIMESTONE:** light grey, microcrystalline to very fine texture, chalky to trace vitreous, argillaceous, **tight, no shows.**
- 323.5-326.5 m      **LIMESTONE:** light to medium grey, microcrystalline to minor very fine crystalline, chalky to trace sub vitreous, abundant glauconitic, **tight to 3% intergranular porosity, no fluorescence, very weak plant white halo cut, poor show.**
- 326.5-335 m      **SHALE:** medium grey, very fine texture, calcareous, minor argillaceous limestone stringers, blocky.
- 335-339 m      **SHALE:** medium grey, very fine texture, calcareous, rare pyrite, trace limestone stringers, blocky, grades argillaceous limestone in part.
- 339-340 m      **LIMESTONE:** tan to light grey, microcrystalline to very fine texture, chalky to trace vitreous, argillaceous, **tight, no shows.**
- 340-347 m      **SHALE:** medium grey, very fine texture, calcareous, minor argillaceous limestone stringers, blocky, grades to argillaceous limestone in part.

- 347-348.5 m      **LIMESTONE:** light to medium grey, packstone, limestone oolites, minor argillaceous grain, very fine to fine oolites size, microcrystalline limestone matrix, **tight to 3% intercrystalline and oolitic porosity, no shows.**
- 348.5-354 m      **SHALE:** medium grey, very fine texture, calcareous, minor argillaceous limestone stringers, blocky, grades to argillaceous limestone in part.
- 354-355.5 m      **LIMESTONE:** light grey, microcrystalline to very fine texture, chalky to trace vitreous, argillaceous, **tight, no shows.**
- 355.5-358 m      **SHALE:** medium grey, very fine texture, calcareous, minor argillaceous limestone stringers, blocky, grades to argillaceous limestone in part.
- 358-360.5 m      **LIMESTONE:** light grey to trace light brown, microcrystalline to very fine texture, chalky to trace vitreous, argillaceous, rare pyrite, **tight, no shows.**
- 360.5-362 m      **LIMESTONE:** light grey, microcrystalline to very fine texture, very fine texture to chalky, argillaceous, trace pyrite, **tight to 3% intercrystalline porosity, no shows.**
- SURFACE HOLE DEPTH 362.0 m, surface casing set at 362.0 m**
- 362-363 m      **LIMESTONE:** as above.
- 363-366 m      **SHALE:** medium grey, very fine texture, calcareous, blocky, grades to argillaceous limestone in part.
- 366-370 m      **LIMESTONE:** light grey, microcrystalline to very fine texture, very fine texture to chalky, argillaceous, trace pyrite, **tight to 3% intercrystalline porosity, no shows.**
- 370-375 m      **INTERBEDDED SHALE AND LIMESTONE:**  
  
**SHALE:** medium grey, very fine texture, calcareous, blocky;  
  
**LIMESTONE:** light grey, microcrystalline to very fine texture, very fine texture to chalky, argillaceous, trace pyrite, **tight, no shows.**
- 375-385 m      **INTERBEDDED SHALE AND LIMESTONE:**  
  
**SHALE:** medium grey, very fine texture, calcareous, blocky;  
  
**LIMESTONE:** light grey, microcrystalline to very fine texture, very fine texture to chalky, argillaceous, trace pyrite, **tight, no shows.**

- 385-386 m **CONGLOMERATE:** light to medium grey, 60% chert conglomerate cobble, 40% sandstone matrix, cobble rounded, poor sorted, sandstone matrix, rounded to subangular, fine to coarse grains, trace chert, trace pyrite, siliceous and calcareous cement, **tight to 3% intergranular porosity, no shows.**
- 386-388.5 m **SANDSTONE:** off white to light grey, 75% quartz grains, 10% dark minerals, 15% calcareous cement, fine to medium grain, minor lower coarse grains, subangular, poorly sorted, trace chert, rare pyrite, **6 to 12% intergranular porosity, no fluorescence, streaming white halo to weak massive cut, poor show.**
- 388.5-390 m **CONGLOMERATE:** light grey, 50% chert conglomerate cobble, 50% sandstone matrix as sandstone above.
- 390-392.5 m **SANDSTONE:** off white to light grey, 75% quartz grains, 10% dark minerals, 15% calcareous cement, very fine to medium grain, subangular, poor sorted, trace chert, rare pyrite, **3 to 9% intergranular porosity, no fluorescence, thin streaming white halo cut, poor show.**
- 392.5-394 m **LIMESTONE:** light grey, microcrystalline to very fine texture, very fine texture, sandy, **tight, no shows.**
- 394-395.5 m **SANDSTONE:** as above.
- 395.5-397.5 m **SHALE:** light to medium grey, very fine texture, calcareous, trace pyrite, blocky, grades to argillite limestone in part.
- 397.5-400 m **SANDSTONE:** as above, trace conglomerate stringers.
- 400-404.5 m **SHALE:** light to medium grey, very fine texture, calcareous, trace pyrite, trace sandstone stringers, blocky, grades to argillite limestone in part, abundant sawdust from sweep.
- 404.5-406 m **LIMESTONE:** light grey, microcrystalline to very fine texture, very fine texture, argillaceous, **tight, no shows.**
- 406-410 m **SHALE:** light to medium grey, very fine texture, calcareous, trace pyrite, trace sandstone bed, blocky, grades to argillite limestone in part, abundant sawdust from sweep.
- 410-416.5 m **SHALE:** light to medium grey, very fine texture, calcareous, trace pyrite, trace sandstone stringers, blocky, grades to argillite limestone in part.

- 416.5-418 m **LIMESTONE:** white to translucent light grey, cryptocrystalline to microcrystalline, vitreous to very fine texture, **tight, no shows.**
- 418-421.5 m **SHALE:** light to medium grey, very fine texture, calcareous, trace pyrite, trace sandstone stringers, blocky, grades to argillite limestone in part.
- 421.5-422.5 m **LIMESTONE:** white to translucent light grey, cryptocrystalline to microcrystalline, vitreous to very fine texture, **tight, no shows.**
- 422.5-426 m **LIMESTONE:** light grey, microcrystalline to very fine crystalline, very fine granular texture, trace pyrite, **tight to 3% intercrystalline porosity, minor very weak very plant white halo cut, no shows.**
- 426-428 m **SANDY LIMESTONE:** white to light grey, cryptocrystalline to microcrystalline, vitreous to minor chalky, sandy, grades to calcareous sandstone in part, **tight, light brown fluorescence, weak plant white halo cut, poor show.**
- 428-429.5 m **SANDSTONE:** light grey, 60% quartz, 5% dark minerals, 35% calcareous cement, very fine to medium grains, subangular to subrounded, moderately sorted, trace chert, rare pyrite, grades to sandy limestone, **tight to 3% intergranular porosity, light brown fluorescence, weak plant white halo cut, poor show.**
- 429.5-434 m **SANDSTONE:** light grey, 80% quartz, 5% dark minerals, 15% calcareous cement, fine to medium grains, subangular to subrounded, well sorted, trace chert, rare pyrite, **3 to 9% intergranular porosity, light brown fluorescence, weak plant white halo cut, poor show.**
- 434-435 m **CONGLOMERATE:** light to medium grey, 50% chert conglomerate cobble, 50% sandstone matrix, cobble rounded, poorly sorted, sandstone matrix as above, **6 to 12% intergranular porosity, rare oil cut when washed, light brown fluorescence, weak plant white halo cut, poor show.**
- 435-437 m **SANDSTONE:** light grey, 80% quartz, 5% dark minerals, 15% calcareous cement, fine to medium grains, subangular to subrounded, well sorted, trace chert, rare pyrite, **tight to 9% intergranular porosity, light brown fluorescence, weak plant white halo cut, poor show.**
- HART RIVER 437.0 m (167.3 m SS)**
- 437-440 m **SANDY LIMESTONE:** white to light grey, cryptocrystalline to microcrystalline, vitreous to minor chalky, sandy, trace pyrite, grades to calcareous sandstone in part, **tight, light brown fluorescence, weak plant white halo cut, poor show.**

- 440-450 m **LIMESTONE:** white to light grey, cryptocrystalline to microcrystalline, vitreous, trace pyrite, minor calcareous sandstone beds, trace chert, **tight to 3% intercrystalline and intergranular porosity, light brown fluorescence, white plant white halo cut, poor show;**
- SANDSTONE:** light grey, 60% quartz, 5% dark minerals, 35% calcareous cement, fine to coarse grain, subangular to subrounded, poor sorted, trace chert, rare pyrite, **rare spotty light brown oil stain, tight to 3% intergranular porosity, light brown fluorescence, weak plant white halo cut, poor show.**
- 450-455 m **LIMESTONE:** white to light grey, cryptocrystalline to microcrystalline, massive, vitreous, trace pyrite, minor calcareous sandstone stringers, trace chert, **tight to 3% intercrystalline porosity, no shows.**
- 455-460 m **LIMESTONE:** light brown to light grey, cryptocrystalline to microcrystalline, massive, vitreous, minor calcareous sandstone stringers, trace chert, **tight to 3% intercrystalline porosity, rare spotty light brown oil stain, tight to 3% intergranular porosity in sandstone stringers, light brown fluorescence, weak plant white halo cut, poor show.**
- 460-465 m **LIMESTONE:** light brown to light grey, cryptocrystalline to microcrystalline, massive, vitreous to very fine granular texture, minor calcareous sandstone stringers, **tight to 3% intercrystalline porosity, rare spotty light brown oil stain, tight to 3% intergranular porosity in sandstone stringers, light brown fluorescence, weak plant white halo cut, poor show.**
- 465-469.5 m **LIMESTONE:** light brown to minor light grey, microcrystalline to trace very fine crystalline, massive, vitreous to very fine granular texture, minor calcareous sandstone stringers, minor calcareous shale stringers, **tight to 3% intercrystalline porosity, tight to 3% intergranular porosity in sandstone stringers, light brown fluorescence, minor weak plant white halo cut, poor show.**
- 469.5-470.5 m **SANDSTONE:** light grey, 60% quartz, 5% dark minerals, 35% calcareous cement, very fine to medium grains, subangular to subrounded, poor sorted, trace chert, rare pyrite, **tight to 3% intergranular porosity, light brown fluorescence, weak plant white halo cut, poor show.**
- 470.5-475 m **LIMESTONE:** light brown to light grey, microcrystalline to trace very fine crystalline, massive, vitreous to very fine granular texture, minor calcareous sandstone stringers, minor calcareous shale stringers, **tight to 3% intercrystalline porosity, tight to 3% intergranular porosity in sandstone stringers, light brown fluorescence, minor weak plant white halo cut, poor show.**

- 475-482 m **LIMESTONE:** light brown to rare light grey, microcrystalline to trace very fine crystalline, chalky to very fine granular texture, mudstone, trace calcareous sandstone stringers, **tight to 3% intercrystalline and intergranular porosity in sandstone stringers, no fluorescence, minor weak plant white halo cut, poor show.**
- 482-484 m **SANDSTONE:** light grey, 60% quartz, 5% dark minerals, 35% calcareous cement, very fine to medium grains, subangular to subrounded, moderately sorted, trace chert, **tight to 3% intergranular porosity, light brown fluorescence, white halo to weak streaming cut, poor show.**
- 484-485 m **LIMESTONE:** light brown to rare light grey, microcrystalline to trace very fine crystalline, chalky to very fine granular texture, mudstone, trace sandy, **tight to 3% intercrystalline and intergranular porosity in sandstone stringers, no fluorescence, minor weak plant white halo cut, poor show.**
- 485-490 m **LIMESTONE:** light grey to minor light brown, cryptocrystalline to minor microcrystalline, massive, vitreous, **tight to 3% intercrystalline porosity, no fluorescence, very weak white halo cut, no shows.**
- 490-502 m **LIMESTONE:** off white to light grey, cryptocrystalline to very fine crystalline, vitreous to very fine granular texture, sandy, grades to very fine to fine grains calcareous sandstone in part, trace very fine to fine grain calcareous sandstone stringers, **tight to 3% intercrystalline porosity, minor light brown to white fluorescence, trace slow white halo cut, very poor show.**
- 502-505.5 m **SANDSTONE:** tan, 60% quartz, 5% dark minerals, 35% calcareous cement, fine to coarse grain, minor small conglomerate pebble, subangular to subrounded, poorly sorted, trace chert, grades to conglomerate, **3 to 9% intergranular porosity, yellow tan fluorescence, white halo to thin massive cut, fair show.**
- 505.5-515 m **LIMESTONE:** off white to light grey, microcrystalline to very fine crystalline, chalky to very fine granular texture, sandy, grades to calcareous sandstone in part, trace calcareous sandstone stringers, **tight to 3% intercrystalline porosity, trace light brown to white fluorescence, trace slow white halo cut, very poor show.**
- 515-516 m **SANDSTONE:** tan, 60% quartz, 5% dark minerals, 35% calcareous cement, very fine to medium grain, subangular to subrounded, moderately sorted, trace chert, **3 to 6% intergranular porosity, no fluorescence, minor weak plant white halo cut, no shows.**
- 516-520 m **LIMESTONE:** off white to light grey, microcrystalline to very fine crystalline, chalky to very fine granular texture, **tight to 3% intercrystalline porosity, no shows fluorescence, minor weak plant white halo cut, no shows.**

- 520-525 m **LIMESTONE:** off white to light grey, cryptocrystalline to microcrystalline, chalky to sub vitreous texture, slightly sandy, trace calcareous sandstone stringers, **tight to 3% intercrystalline porosity, no fluorescence, trace slow white halo cut, no shows.**
- 525-527 m **NO SAMPLE:** due to twisting off and fishing.  
trace amount of heavy oil globbles came to surface with bottoms up
- 527-530 m **LIMESTONE:** off white to light grey, cryptocrystalline to microcrystalline, chalky to sub vitreous texture, slightly sandy, trace calcareous sandstone stringers, **tight to 3% intercrystalline porosity, no fluorescence, trace slow white halo cut, no shows.**
- 530-540 m **LIMESTONE:** off white to light grey, cryptocrystalline to microcrystalline, chalky to sub vitreous texture, slightly sandy, **tight to 3% intercrystalline porosity, rare light brown fluorescence, trace slow white halo cut, no shows.**
- 540-545 m **LIMESTONE:** light brown to light grey, cryptocrystalline to microcrystalline, sub vitreous to minor chalky texture, **rare light brown oil stain, tight to 3% intercrystalline porosity, rare light brown fluorescence, trace slow white halo cut, no shows.**
- 545-550 m **LIMESTONE:** light brown to light grey, cryptocrystalline to microcrystalline, sub vitreous to minor chalky texture, **rare light brown oil stain, tight to 3% intercrystalline porosity, rare light brown fluorescence, trace slow white halo cut, no shows.**
- 550-560 m **LIMESTONE:** light grey to light brown, cryptocrystalline to microcrystalline, sub vitreous to minor chalky texture, mudstone, **rare light brown oil stain, tight to 3% intercrystalline porosity, rare light brown fluorescence, minor slow white halo cut, no shows.**
- 560-570 m **LIMESTONE:** light grey to light brown, cryptocrystalline to microcrystalline, sub vitreous to minor chalky texture, mudstone, **rare light brown oil stain, tight to 3% intercrystalline porosity, rare light brown fluorescence, minor slow white halo cut, no shows.**
- 570-575 m **LIMESTONE:** light brown to light grey, cryptocrystalline to microcrystalline, sub vitreous to minor chalky texture, mudstone, rare thin calcareous shale stringers, **rare light brown oil stain, tight to 3% intercrystalline porosity, rare light brown fluorescence, trace slow white halo cut, no shows.**

- 575-580 m **LIMESTONE:** light grey to light brown, cryptocrystalline to microcrystalline, sub vitreous to minor chalky texture, mudstone, **rare light brown oil stain, secondary calcareous infill fracture, tight to 3% intercrystalline porosity, rare light brown fluorescence, minor slow white halo cut, no shows.**
- 580-585 m **LIMESTONE:** light brown to medium grey, cryptocrystalline to microcrystalline, sub vitreous to minor chalky texture, mudstone, rare thin calcareous shale stylolite, rare pyrite, **tight to 3% intercrystalline porosity, rare light brown fluorescence, trace slow white halo cut, no shows.**
- 585-590 m **LIMESTONE:** light to medium grey, minor light brown, cryptocrystalline to microcrystalline, sub vitreous to minor chalky texture, mudstone, rare thin calcareous shale stylolite, **tight to 3% intercrystalline porosity, rare light brown fluorescence, trace slow white halo cut, no shows.**
- 590-600 m **LIMESTONE:** light brown to light grey, cryptocrystalline to microcrystalline, sub vitreous to minor chalky texture, mudstone, rare thin calcareous shale stringers, **tight to 3% intercrystalline porosity, rare light brown fluorescence, trace slow white halo cut, no shows.**
- 600-605 m **LIMESTONE:** light to medium grey, cryptocrystalline to microcrystalline, vitreous to minor chalky texture, massive, **tight to 3% intercrystalline porosity, rare light brown fluorescence, trace slow white halo cut, no shows.**
- 605-610 m **LIMESTONE:** light to medium grey and minor light brown, cryptocrystalline to microcrystalline, sub vitreous to minor chalky texture, **secondary calcareous infill fracture porosity, tight to 3% intercrystalline and fracture porosity, rare light brown to white in secondary calcareous fluorescence, minor slow white halo cut, no shows.**
- 610-620 m **LIMESTONE:** light to medium grey, minor light brown, cryptocrystalline to microcrystalline, sub vitreous to minor chalky texture, rare thin calcareous shale stylolite, **tight to 3% intercrystalline porosity, rare light brown fluorescence, trace slow white halo cut, no shows.**
- 620-625 m **LIMESTONE:** light to medium grey, minor light brown, cryptocrystalline to microcrystalline, sub vitreous to minor chalky texture, rare thin calcareous shale stringers, **tight to 3% intercrystalline porosity, rare light brown fluorescence, trace slow white halo cut, no shows.**

- 625-645 m **LIMESTONE:** light to medium grey, cryptocrystalline to microcrystalline, sub vitreous to chalky texture, mudstone, rare calcareous shale stringers, **tight to 3% intercrystalline porosity, rare light brown fluorescence, trace slow white halo cut, no shows.**
- 645-655 m **LIMESTONE:** light to medium grey to light brown, cryptocrystalline to microcrystalline, sub vitreous to chalky texture, mudstone, rare calcareous shale stringers, **tight to 3% intercrystalline porosity, rare light brown fluorescence, trace slow white halo cut, no shows.**
- 655-660 m **LIMESTONE:** light to medium grey to light brown, cryptocrystalline to microcrystalline, sub vitreous to chalky texture, mudstone, **tight to 3% intercrystalline porosity, rare light brown fluorescence, trace slow white halo cut, no shows.**
- 660-665 m **LIMESTONE:** light to medium grey to light brown, cryptocrystalline to microcrystalline, sub vitreous to chalky texture, mudstone, rare calcareous shale stringers, **tight to 3% intercrystalline porosity, rare light brown fluorescence, trace slow white halo cut, no shows.**
- 665-670 m **LIMESTONE:** light to medium grey to light brown, cryptocrystalline to microcrystalline, sub vitreous to chalky texture, mudstone, rare calcareous shale stylolite, **tight to 3% intercrystalline porosity, rare light brown fluorescence, trace slow white halo cut, no shows.**
- 670-675 m **LIMESTONE:** light to medium grey to light brown, cryptocrystalline to microcrystalline, sub vitreous to chalky texture, mudstone, rare calcareous shale stringers, **tight to 3% intercrystalline porosity, rare light brown fluorescence, trace slow white halo cut, no shows.**
- 675-680 m **LIMESTONE:** light to medium grey to light brown, cryptocrystalline to microcrystalline, sub vitreous to chalky texture, mudstone, rare pyrite, **tight to 3% intercrystalline porosity, rare light brown fluorescence, trace slow white halo cut, no shows.**
- 680-685 m **LIMESTONE:** light brown to minor light grey, cryptocrystalline to microcrystalline, sub vitreous to chalky texture, mudstone, rare sand grains, **tight to 3% intercrystalline porosity, rare light brown fluorescence, trace slow white halo cut, no shows.**

- 685-690 m **LIMESTONE:** light brown to light grey, cryptocrystalline to microcrystalline, sub vitreous to chalky texture, mudstone, rare calcareous shale stringers, **tight to 3% intercrystalline porosity, rare light brown fluorescence, trace slow white halo cut, no shows.**
- 690-695 m **LIMESTONE:** light grey to minor light brown, cryptocrystalline to microcrystalline, sub vitreous to chalky texture, mudstone, **tight to 3% intercrystalline porosity, rare light brown fluorescence, trace slow white halo cut, no shows.**
- 695-705 m **LIMESTONE:** light grey to light brown, cryptocrystalline to microcrystalline, sub vitreous to chalky texture, mudstone, rare shale stylolite, **tight to 3% intercrystalline porosity, rare light brown fluorescence, trace slow white halo cut, no shows.**
- 705-712 m **LIMESTONE:** light brown to light grey, cryptocrystalline to microcrystalline, sub vitreous to chalky texture, mudstone, rare shale stringers, **tight to 3% intercrystalline porosity, rare light brown fluorescence, trace slow white halo cut, no shows.**
- 712-715 m **LIMESTONE:** light brown to minor light grey, cryptocrystalline to microcrystalline, chalky texture, mudstone, **trace light brown oil stain, tight to 3% intercrystalline porosity, minor light yellow brown fluorescence, white halo to streaming cut, poor shale.**
- 715-720 m **LIMESTONE:** light brown to minor light grey, cryptocrystalline to microcrystalline, chalky texture, mudstone, sandy, rare calcareous sandstone stringers, **trace light brown oil stain, tight to 3% intercrystalline porosity, minor light yellow brown fluorescence, white halo to streaming cut, poor shale.**
- 720-725 m **LIMESTONE:** light brown to light grey, cryptocrystalline to microcrystalline, sub vitreous to chalky texture, mudstone, rare shale stringers, **tight to 3% intercrystalline porosity, rare light brown fluorescence, trace slow white halo cut, no shows.**
- 725-735 m **LIMESTONE:** light brown to light grey, cryptocrystalline to microcrystalline, sub vitreous to chalky texture, mudstone, rare calcareous shale stringers, **tight to 3% intercrystalline porosity, rare light brown fluorescence, trace slow white halo cut, no shows.**
- 735-740 m **LIMESTONE:** light brown to light grey, cryptocrystalline to microcrystalline, sub vitreous to chalky texture, mudstone, **tight to 3% intercrystalline porosity, rare light brown fluorescence, trace slow white halo cut, no shows.**



- 740-745 m **LIMESTONE:** light grey, cryptocrystalline to microcrystalline, sub vitreous to chalky texture, mudstone, minor calcareous shale stringers, **tight to 3% intercrystalline porosity, rare light brown fluorescence, trace slow white halo cut, no shows, poor sample due most of sample lost when shaker broke.**
- 745-755 m **LIMESTONE:** light grey, cryptocrystalline to microcrystalline, chalky texture, mudstone, minor argillaceous, minor calcareous shale beds, **tight to 3% intercrystalline porosity, no fluorescence, trace slow white halo cut, no shows.**
- 755-760 m **LIMESTONE:** light grey, cryptocrystalline to microcrystalline, chalky texture, mudstone, trace argillaceous, trace calcareous shale stringers, **tight to 3% intercrystalline porosity, no fluorescence, trace slow white halo cut, no shows.**
- 760-765 m **LIMESTONE:** light brown to light grey, cryptocrystalline to microcrystalline, sub vitreous to chalky texture, mudstone, rare shale stylolite, **tight to 3% intercrystalline porosity, rare light brown fluorescence, trace slow white halo cut, no shows.**
- 765-770 m **LIMESTONE:** light grey, microcrystalline, chalky texture, mudstone, slightly argillaceous, rare shale stringers, **tight to 3% intercrystalline porosity, rare light brown fluorescence, trace slow white halo cut, no shows.**
- 770-775 m **LIMESTONE:** light to medium grey, microcrystalline, chalky to minor sub vitreous texture, mudstone, slightly argillaceous, rare shale stringers, **tight to 3% intercrystalline porosity, rare light brown fluorescence, trace slow white halo cut, no shows.**
- 775-782 m **LIMESTONE:** light to medium grey, microcrystalline, chalky to minor sub vitreous texture, mudstone, slightly argillaceous, rare shale stringers, **tight to 3% intercrystalline porosity, rare light brown fluorescence, trace slow white halo cut, no shows.**
- 782-790 m **INTERBEDDED LIMESTONE AND ARGILLACEOUS LIMESTONE:**  
**LIMESTONE:** medium grey, cryptocrystalline to microcrystalline, sub vitreous texture, **tight to 3% intercrystalline porosity, no fluorescence, trace slow white halo cut, no shows;**  
**ARGILLACEOUS LIMESTONE:** light to medium grey, microcrystalline to very fine crystalline, earthy to chalky texture, argillaceous, minor calcareous shale stringers, **tight to 3% intercrystalline porosity, no fluorescence, trace slow white halo cut, no shows.**

- 790-795 m **INTERBEDDED LIMESTONE AND ARGILLACEOUS LIMESTONE:**  
**LIMESTONE:** medium grey, cryptocrystalline to microcrystalline, sub vitreous texture, **tight to 3% intercrystalline porosity, no fluorescence, trace slow white halo cut, no shows;**  
**ARGILLACEOUS LIMESTONE:** light to medium grey, microcrystalline to very fine crystalline, earthy to chalky texture, argillaceous, minor calcareous shale stringers, **tight to 3% intercrystalline porosity, no fluorescence, trace slow white halo cut, no shows.**
- 795-800 m **INTERBEDDED LIMESTONE AND ARGILLACEOUS LIMESTONE:**  
**LIMESTONE:** medium grey, cryptocrystalline to microcrystalline, sub vitreous texture, **tight to 3% intercrystalline porosity, no fluorescence, trace slow white halo cut, no shows;**  
**ARGILLACEOUS LIMESTONE:** light to medium grey, microcrystalline to very fine crystalline, earthy to chalky texture, argillaceous, minor calcareous shale beds, **tight to 3% intercrystalline porosity, no fluorescence, trace slow white halo cut, no shows.**
- 800-806 m **INTERBEDDED LIMESTONE AND ARGILLACEOUS LIMESTONE:**  
**LIMESTONE:** medium grey, cryptocrystalline to microcrystalline, sub vitreous texture, **tight to 3% intercrystalline porosity, no fluorescence, trace slow white halo cut, no shows;**  
**ARGILLACEOUS LIMESTONE:** light to medium grey, microcrystalline to very fine crystalline, earthy to chalky texture, argillaceous, minor calcareous shale stringers, **tight to 3% intercrystalline porosity, no fluorescence, trace slow white halo cut, no shows.**
- 806-815 m **INTERBEDDED SANDSTONE AND LIMESTONE AND SHALE:**  
**SANDSTONE:** salt and pepper to light grey, 70% quartz, 10% dark minerals, 20% calcareous cement, very fine to medium grained, subrounded, moderately sorted, minor medium grey chert, minor argillaceous grains, grades to sandy limestone in part, **tight to 3% intergranular porosity, no fluorescence, slow thin white halo to weak massive cut, no shows;**



**LIMESTONE:** light to medium grey, cryptocrystalline to microcrystalline, sub vitreous to earthy, slightly sandy, slightly argillaceous, minor calcareous shale stringers, **tight to 3% intercrystalline porosity, no fluorescence, trace slow white halo cut, no shows;**

**SHALE:** medium to dark grey, very fine texture, calcareous, hard, blocky.

815-825 m

**SHALE:** medium to dark grey, very fine texture, calcareous, hard, minor sandstone stringers, grades to argillaceous limestone in part, blocky;

**LIMESTONE:** light to medium grey, microcrystalline to very fine texture, earthy, argillaceous, **tight to 3% intercrystalline porosity, no fluorescence, trace slow white halo cut, no shows.**

825-830 m

**SHALE:** medium to dark grey, very fine texture, calcareous, grades to argillaceous limestone in part, blocky;

**LIMESTONE:** light to medium grey, microcrystalline to very fine texture, earthy, argillaceous, **tight to 3% intercrystalline porosity, no shows.**

830-835 m

**SHALE:** medium to dark grey, minor white calcareous speck, very fine texture, calcareous, grades to argillaceous limestone in part, minor argillaceous limestone stringers, blocky.

835-840 m

**SHALE:** medium to dark grey, trace white calcareous speck, very fine texture, calcareous, minor argillaceous limestone stringers, trace secondary calcareous infilling fracture, blocky.

840-845 m

**SHALE:** medium to dark grey, very fine texture, calcareous, grades to argillaceous limestone in part, blocky;

**LIMESTONE:** light to medium grey, microcrystalline to very fine texture, earthy, argillaceous, **tight to 3% intercrystalline porosity, no shows.**

845-850 m

**INTERBEDDED LIMESTONE AND SHALE:**

**SHALE:** medium to dark grey, very fine texture, calcareous, grades to argillaceous limestone in part, blocky;

**LIMESTONE:** light to medium grey, medium brown, microcrystalline to very fine texture, earthy to sub vitreous texture, **tight to 3% intercrystalline porosity, no shows.**

850-855 m

**INTERBEDDED LIMESTONE AND SHALE:**

**SHALE:** medium to dark grey, very fine texture, calcareous, grades to argillaceous limestone in part, blocky;

**LIMESTONE:** light to medium grey, medium brown, microcrystalline to very fine texture, earthy to sub vitreous texture, trace sandy, **tight to 3% intercrystalline porosity, no shows.**

855-865 m

**INTERBEDDED LIMESTONE AND SHALE:**

**SHALE:** medium to dark grey, very fine texture, calcareous, grades to argillaceous limestone in part, blocky;

**LIMESTONE:** light to medium grey, medium brown, microcrystalline to very fine texture, earthy to sub vitreous texture, argillaceous, **tight to 3% intercrystalline porosity, no shows.**

865-870 m

**INTERBEDDED LIMESTONE AND SHALE:**

**SHALE:** medium to dark grey, very fine texture, calcareous, grades to argillaceous limestone in part, blocky;

**LIMESTONE:** light to medium grey, medium brown, microcrystalline to very fine texture, earthy to sub vitreous texture, argillaceous, **tight to 3% intercrystalline porosity, no shows.**

870-875 m

**INTERBEDDED LIMESTONE AND SHALE:**

**SHALE:** medium to dark grey, very fine texture, calcareous, grades to argillaceous limestone in part, blocky;

**LIMESTONE:** light to medium grey, medium brown, microcrystalline to very fine texture, earthy to sub vitreous texture, argillaceous, **tight to 3% intercrystalline porosity, no shows.**

875-882 m

**INTERBEDDED LIMESTONE AND SHALE:**

**SHALE:** medium to dark grey, very fine texture, calcareous, grades to argillaceous limestone in part, blocky;

**LIMESTONE:** light to medium grey, medium brown, microcrystalline to very fine texture, earthy to sub vitreous texture, argillaceous, **tight to 3% intercrystalline porosity, no shows.**

**S3A SEQUENCE 882.0 m (-277.7 m SS)**

882-885 m **SHALE:** medium grey, very fine to fine texture, soft, minor silt grains, calcareous, **minor oil stain**, slightly carbonaceous, blocky.

885-890 m **SHALE:** as above;

**SHALE:** medium to dark grey, very fine texture, calcareous, minor argillaceous limestone stringers, firm, blocky.

890-895 m **SHALE:** medium grey, very fine to fine texture, soft, minor silt grains, calcareous, slightly carbonaceous, blocky;

**SHALE:** as above, 885 - 890 m.

895-901 m **SHALE:** light to medium grey, very fine to fine texture, soft, calcareous, minor light grey soft argillaceous limestone stringers, blocky;

**SHALE:** medium to dark grey, very fine texture, calcareous, minor argillaceous limestone stringers, firm, blocky.

901-903 m **SANDSTONE:** off white to salt and pepper, 50% quartz, 15% dark minerals, 35% calcareous cement, fine to medium grain, trace lower coarse grains, subrounded, moderately sorted, **minor dark chert, minor light brown oil stain, tight to 3% intergranular porosity, dull yellow brown fluorescence, good white halo to slow massive cut, fair show.**

903-905 m **SHALE:** light to medium grey, very fine to fine texture, soft, calcareous, minor black mica, blocky.

905-910 m **SHALE:** light to medium grey, very fine to fine texture, soft, calcareous, trace white limestone stringers, blocky;

**SHALE:** medium to dark grey, very fine texture, calcareous, minor argillaceous limestone stringers, firm, blocky.

910-914.5 m **SHALE:** light to medium grey to minor speckled, very fine texture, soft, calcareous, trace medium grey limestone stringers, trace sandstone stringers, blocky.

914.5-916 m **SHALE:** light grey to light brown grey, very fine to earthy texture, carbonaceous, soft, blocky.

916-918.5 m **SHALE:** light to medium grey, very fine texture, soft, calcareous, blocky.

918.5-923.5 m **SHALE:** as above, 914.5 - 916 m.

923.5-924.5 m **SANDSTONE:** salt and pepper, 50% quartz, 15% dark minerals, 35% calcareous cement, fine to medium grain, subrounded, well sorted, minor dark chert, **tight to 3% intergranular porosity, dull yellow brown fluorescence, good white halo to slow massive cut, fair show.**

924.5-928.5 m **SHALE:** medium grey to brown grey, very fine to earthy texture, carbonaceous, soft, blocky.

928.5-930 m **SHALE:** light to medium grey, very fine texture, soft, calcareous, blocky.

930-933.5 m **SILTSTONE:** light to medium grey, 55% quartz, 10% dark minerals, 35% calcareous cement and argillaceous matrix, silt to very fine grain, subrounded, well sorted, minor chert, minor sandstone stringers, **tight, plant blue fluorescence, slow weak white halo cut, no shows.**

933.5-940 m **SHALE:** light to medium grey, very fine texture to minor earthy, soft, calcareous, trace carbonaceous, blocky.

940-941.5 m **SILTSTONE:** light to medium grey, 55% quartz, 10% dark minerals, 35% calcareous cement and argillaceous matrix, silt to very fine grain, subrounded, well sorted, minor chert, minor sandstone stringers, grades to siltstone limestone in part, **minor light brown oil stain, tight, yellow brown fluorescence, slow white halo to streaming cut, poor show.**

941.5-946 m **SHALE:** light to medium grey, very fine texture to minor earthy, soft, calcareous, blocky.

946-948 m **SANDSTONE:** light to medium grey, 55% quartz, 10% dark minerals, 35% calcareous cement and argillaceous matrix, silt to very fine grain, subrounded, well sorted, minor chert, grades to siltstone limestone in part, **minor light brown oil stain, tight to 3% intergranular porosity, yellow brown fluorescence, slow white halo to streaming cut, poor show.**

948-958 m **SHALE:** light to medium grey, very fine texture to minor earthy, calcareous, rare sandstone stringers, blocky.

- 958-962 m **SHALE:** light to medium grey to brown grey, very fine to earthy texture, calcareous, minor clay, soft, blocky.
- 962-963 m **SHALE:** light to medium grey, very fine texture, calcareous, slightly silty, blocky.
- 963-965 m **SHALE:** as above, 958 - 962 m.
- 965-971 m **SHALE:** light to medium grey to brown grey, very fine to earthy texture, calcareous, trace sandstone stringers, rare clay, soft, blocky.
- 971-972 m **LIMESTONE:** off white to light grey, microcrystalline to very fine crystalline, chalky to very fine texture, argillaceous, rare fossil fragment, rare crinoid, **trace spotty light brown oil stain, tight to 3% intercrystalline porosity, no shows.**
- 972-976 m **SHALE:** as above, 965 - 971 m.
- 976-977.5 m **SANDSTONE:** salt and pepper to light grey, 60% quartz, 5% dark minerals, 35% calcareous cement, very fine to medium grain, subrounded, moderately sorted, minor chert, grades to sandy limestone, **rare light brown oil stain, rare pyrobitumen, tight to 6% intergranular porosity, yellow brown fluorescence, slow white halo to very weak massive cut, poor show.**
- 977.5-978.5 m **SHALE:** light to medium grey, very fine texture, calcareous, blocky.
- 978.5-987 m **SANDSTONE:** salt and pepper to light grey, 60% quartz, 5% dark minerals, 35% calcareous cement, very fine to coarse grains, subrounded, poorly sorted, minor chert, grades to sandy limestone, trace sandy limestone stringers, **rare light brown oil stain, tight to 6% intergranular porosity, yellow brown fluorescence, slow white halo to very weak massive cut, poor show.**
- 987-992.5 m **SANDSTONE:** light grey, 75% quartz, 15% dark minerals, 10% calcareous cement, fine to upper coarse grains, trace small conglomerate grains, subrounded to rounded, poor sorted, minor chert, **rare light brown oil stain, 3 to 9% intergranular porosity, yellow brown fluorescence, white massive cut, good show.**
- 992.5-998 m **SANDSTONE:** salt and pepper to light grey, 65% quartz, 10% dark minerals, 25% calcareous cement, very fine to coarse grain, subrounded, poorly sorted, minor chert, **rare light brown oil stain, tight to 6% intergranular porosity, yellow brown fluorescence, weak white massive cut, fair show.**

**CHANCE SAND 998.0 m (-393.7 m SS)**

- 998-1002 m **SANDSTONE:** light grey, 75% quartz, 15% dark minerals, 10% calcareous cement, very fine to upper coarse grain, subrounded to rounded, poor sorted, minor chert, **rare light brown oil stain, 3 to 9% intergranular porosity, yellow brown fluorescence, weak white massive cut, fair show.**
- 1002-1007 m **SANDSTONE:** salt and pepper to light grey, 60% quartz, 10% dark minerals, 30% calcareous cement, very fine to medium grain, subrounded, moderately sorted, minor chert, **tight to 6% intergranular porosity, spotty yellow brown fluorescence, white halo to streaming cut, fair show.**
- 1007-1008.5 m **SANDSTONE:** light grey, 75% quartz, 15% dark minerals, 10% calcareous cement, fine to upper coarse grain, trace small conglomerate grains, subrounded to rounded, poor sorted, minor chert, **rare light brown oil stain, 3 to 9% intergranular porosity, yellow brown fluorescence, white massive cut, good show.**
- 1008.5-1010 m **SANDSTONE:** salt and pepper to light grey, 60% quartz, 10% dark minerals, 30% calcareous cement, very fine to medium grain, subrounded, moderately sorted, minor chert, **tight to 6% intergranular porosity, spotty yellow brown fluorescence, white halo to streaming cut, fair show.**
- 1010-1015 m **SANDSTONE:** salt and pepper to light grey, 60% quartz, 10% dark minerals, 30% calcareous cement, very fine to coarse grain, subrounded to rounded, poorly sorted, minor chert, consolidated, **tight to 6% intergranular porosity, spotty yellow brown fluorescence, white halo to streaming cut, fair show.**
- 1015-1025 m **SANDSTONE:** salt and pepper to light grey, 60% quartz, 15% dark minerals, 25% calcareous cement, very fine to coarse grain, subrounded to rounded, poorly sorted, minor chert, consolidated, rare pyrite, rare pyrobitumen, rare shale stringers, **tight to 6% intergranular porosity, spotty yellow brown fluorescence, white halo cut, fair show.**
- 1025-1030 m **SANDSTONE:** salt and pepper to light grey, 60% quartz, 15% dark minerals, 25% calcareous cement, very fine to coarse grain, subrounded to rounded, poorly sorted, minor chert, consolidated, rare pyrite, rare pyrobitumen, rare shale and limestone stringers, **tight to 6% intergranular porosity, spotty yellow brown fluorescence, white halo cut, fair show.**

- 1030-1034 m **SANDSTONE:** salt and pepper to light grey, 60% quartz, 15% dark minerals, 25% calcareous cement, very fine to upper coarse grain, subrounded to rounded, poorly sorted, minor chert, consolidated, rare pyrite, rare pyrobitumen, limestone stringers, grades to conglomerate in part, **tight to 6% intergranular porosity, spotty yellow brown fluorescence, white halo cut, fair show.**
- 1034-1042 m **INTERBEDDED SHALE AND LIMESTONE:**
- SHALE:** light grey, very fine to minor chalky texture, very calcareous, trace sandstone stringers, blocky;
- LIMESTONE:** off white to light grey, microcrystalline to very fine crystalline, chalky texture, argillaceous, **tight, no shows.**
- 1042-1043.5 m **LIMESTONE:** light brown, microcrystalline to very fine crystalline, chalky texture, rare pyrobitumen, **light brown oil stain, tight to 6% intercrystalline porosity, yellow brown fluorescence, good white halo to poor slow streaming cut, poor show.**
- 1043.5-1046 m **SHALE:** light grey, very fine to minor chalky texture, very calcareous, blocky.
- 1046-1048.5 m **LIMESTONE:** light brown, microcrystalline to very fine crystalline, chalky texture, **light brown oil stain, tight to 6% intercrystalline porosity, yellow brown fluorescence, good white halo to poor slow streaming cut, poor show.**
- 1048.5-1050 m **SHALE:** light grey, very fine to minor chalky texture, very calcareous, blocky.
- 1050-1055 m **LIMESTONE:** light brown, microcrystalline to very fine crystalline, chalky texture, argillaceous, grades to calcareous shale in part, minor calcareous shale stringers, **minor light brown oil stain, tight to 6% intercrystalline porosity, yellow brown fluorescence, good white halo to poor slow streaming cut, fluorescence and cut on oil stain cuttings, poor show.**
- 1055-1056 m **SANDSTONE:** salt and pepper to light grey, 60% quartz, 15% dark minerals, 25% calcareous cement, very fine to coarse grains, subrounded, poorly sorted, minor chert, consolidated, **3 to 6% intergranular porosity, spotty yellow brown fluorescence, white halo cut, poor show.**
- 1056-1062.5 m **LIMESTONE:** light brown, microcrystalline to very fine crystalline, chalky texture, argillaceous, minor sand grains, grades to calcareous shale in part, minor calcareous shale stringers, **minor light brown oil stain, tight to 3% intercrystalline porosity, yellow brown fluorescence, good white halo to poor slow streaming cut, fluorescence and cut on oil stain cuttings, poor show.**

- 1062.5-1066 m **SANDSTONE:** salt and pepper to light grey, 60% quartz, 15% dark minerals, 25% calcareous cement, very fine to medium grain, minor coarse grain, subrounded, poorly sorted, minor chert, consolidated, **3 to 6% intergranular porosity, faint yellow brown fluorescence, white halo to weak streaming cut, poor show.**
- 1066-1068.5 m **SHALE:** light to minor medium grey, very fine to minor chalky texture, calcareous, blocky.
- 1068.5-1071 m **SANDSTONE:** as above, 1062.5 - 1066 m.
- 1071-1075 m **SHALE:** medium to dark grey, very fine texture, calcareous, slightly carbonaceous, blocky to minor subfissile.
- 1075-1078 m **LIMESTONE:** light brown to light grey, microcrystalline to very fine crystalline, chalky texture, argillaceous, **trace light brown oil stain, tight to 6% intercrystalline porosity, minor plant yellow brown fluorescence, white halo to poor slow massive cut, poor show.**
- 1078-1080 m **SHALE:** medium to dark grey, very fine texture, calcareous, slightly carbonaceous, blocky to minor subfissile.
- 1080-1085 m **INTERBEDDED SHALE AND LIMESTONE:**
- SHALE:** light to medium grey, very fine texture, calcareous, blocky to trace subfissile;
- LIMESTONE:** light grey to medium brown, cryptocrystalline to very fine texture, massive to chalky texture, argillaceous, trace white calcareous vein, **tight, no shows.**
- 1085-1086.5 m **LIMESTONE:** light grey to medium brown, cryptocrystalline to very fine texture, massive to chalky texture, argillaceous, trace white calcareous veins, **tight, no shows.**
- 1086.5-1090 m **SHALE:** light grey, very fine texture, calcareous, grades to argillaceous limestone, trace argillaceous limestone stringers, blocky to trace subfissile.
- 1090-1095 m **SHALE:** light to medium grey, very fine texture, calcareous, grades to argillaceous limestone, trace argillaceous limestone stringers, trace fine to coarse grain sandstone stringers, blocky to trace subfissile.
- 1095-1100 m **SHALE:** light grey, very fine texture, calcareous, grades to argillaceous limestone, trace argillaceous limestone stringers, blocky to trace subfissile.

- 1100-1102 m **SHALE:** medium grey, very fine texture, calcareous, trace sandstone stringers, blocky.
- 1102-1106.5 m **SHALE:** medium grey, very fine texture, calcareous, trace argillaceous limestone stringers, blocky.
- 1106.5-1108 m **LIMESTONE:** light grey to medium brown, cryptocrystalline to very fine texture, massive to chalky texture, argillaceous, **tight to 3% intercrystalline porosity, dull yellow white fluorescence, weak white halo cut, poor show.**
- 1108-1111 m **SHALE:** medium grey, very fine texture, calcareous, trace argillaceous limestone stringers, blocky.
- 1111-1112 m **LIMESTONE:** light grey to medium brown, cryptocrystalline to very fine texture, massive to chalky texture, argillaceous, **tight to 3% intercrystalline porosity, dull yellow white fluorescence, weak white halo cut, poor show.**
- 1112-1115.5 m **SHALE:** off white to medium grey, very fine texture, very calcareous, trace argillaceous limestone stringers, minor limestone stringers, blocky.
- 1115.5-1117 m **SANDSTONE:** salt and pepper to light grey, 60% quartz, 20% dark minerals, 20% calcareous cement, very fine to upper coarse grain, subrounded, poorly sorted, minor chert, consolidated, **3 to 6% intergranular porosity, faint yellow brown fluorescence, white halo cut, poor show.**
- 1117-1122 m **SANDSTONE:** salt and pepper to light grey, 55% quartz, 20% dark minerals, 25% calcareous cement, very fine to medium grain, minor coarse grain, subrounded, poor sorted, minor chert, consolidated, **tight to 3% intergranular porosity, faint yellow brown fluorescence, white halo cut, poor show.**
- 1122-1125 m **SHALE:** medium to dark grey, very fine texture to micromicaceous, carbonaceous, calcareous, blocky to minor subfissile.
- 1125-1142 m **SHALE:** medium to dark grey, very fine texture to micromicaceous, carbonaceous, calcareous, minor light grey argillaceous limestone stringers, blocky to minor subfissile.
- 1142-1145 m **SHALE:** dark grey to black, very fine texture, very carbonaceous, moderately soft, **oil stain, bright white halo to good streaming cut,** blocky to subfissile.
- 1145-1150 m **SHALE:** dark grey to black, very fine texture, very carbonaceous, moderately soft, rare sandstone stringers, **oil stain, bright white halo to good streaming cut,** blocky to subfissile.

- 1150-1155 m **SHALE:** medium to dark grey, very fine texture, calcareous, minor carbonaceous, moderately firm, trace pyrite, rare sandstone and limestone stringers, blocky to subfissile.
- 1155-1160 m **SHALE:** medium to dark grey, very fine texture, calcareous, firm, trace pyrite, rare sandstone and limestone stringers, blocky to subfissile.
- 1160-1165 m **INTERBEDDED SHALE AND LIMESTONE:**  
**SHALE:** medium to dark grey, very fine texture, calcareous, firm, trace pyrite, trace sandstone stringers, grades to argillaceous limestone in part, blocky;  
**LIMESTONE:** light to medium grey, microcrystalline to very fine crystalline, massive to sub vitreous texture, argillaceous, blocky.
- 1165-1172 m **INTERBEDDED SHALE AND LIMESTONE:**  
**SHALE:** medium to dark grey, very fine texture, calcareous, firm, trace pyrite, trace sandstone stringers, grades to argillaceous limestone in part, blocky;  
**LIMESTONE:** light to medium grey, microcrystalline to very fine crystalline, massive to sub vitreous texture, argillaceous, blocky.
- 1172-1177 m **SHALE:** dark grey to black, very fine texture, very carbonaceous, moderately soft, rare sandstone stringers, **oil stain, bright white halo to good streaming cut,** blocky to subfissile.
- 1177-1183.5 m **SHALE:** dark grey, very fine texture, slightly carbonaceous, slightly calcareous, silty, rare sandstone stringers, blocky.
- S1 SEQUENCE 1183.5 m (-579.2 m SS)**
- 1183.5-1185 m **SANDSTONE:** salt and pepper to light grey, 65% quartz, 15% dark minerals, 20% calcareous cement, very fine to coarse grain, subrounded, poor sorted, minor chert, consolidated, minor shale beds, **tight to 6% intergranular porosity, faint yellow blue fluorescence, white halo to weak thin massive cut, poor show.**
- 1185-1193.5 m **SANDSTONE:** salt and pepper to light grey, 65% quartz, 15% dark minerals, 20% calcareous cement, very fine to coarse grain, subrounded, poorly sorted, minor chert, consolidated, **tight to 6% intergranular porosity, faint yellow white fluorescence, white halo to weak thin massive cut, poor show.**

- 1193.5-1202 m **SANDSTONE:** salt and pepper to light grey, 65% quartz, 15% dark minerals, 20% calcareous cement, very fine to coarse grained, subrounded, poorly sorted, minor chert, consolidated, trace pyrobitumen, **3 to 9% intergranular porosity, bright yellow white fluorescence, bright white halo to thin massive cut, fair show.**
- 1202-1207.5 m **SANDSTONE:** light to medium grey, 55% quartz, 15% dark minerals, 30% calcareous cement and argillaceous matrix, very fine to coarse grained, subrounded, poorly sorted, minor chert, consolidated, minor sandy shale stringers, grades to argillaceous sandy limestone in part, **tight to 3% intergranular porosity, faint yellow blue fluorescence, white slow halo to weak thin massive cut, poor show.**
- 1207.5-1210 m **SHALE:** dark grey, very fine texture, carbonaceous, calcareous, blocky to minor subfissile.
- 1210-1215 m **SHALE:** dark grey to black, very fine texture, very carbonaceous, moderately soft, rare sandstone stringers, **oil stain, bright white halo to good streaming cut,** blocky to subfissile.
- 1215-1222.5 m **SHALE:** dark grey to black, very fine texture, very carbonaceous, moderately soft, rare sandstone stringers, **oil stain,** blocky to subfissile.
- 1222.5-1227.5 m **SHALE:** medium to dark grey, very fine texture, silty, minor sand grains, calcareous, firm, grades to argillaceous limestone in part, blocky.
- 1227.5-1231 m **LIMESTONE:** light to medium brown to medium grey, microcrystalline to very fine crystalline, massive to sub vitreous texture, argillaceous, slightly sandy, minor sandstone stringers, blocky.
- 1231-1237 m **SANDSTONE:** medium grey, 50% quartz, 10% dark minerals, 40% calcareous cement, very fine to medium grain, minor coarse grain, subrounded, poorly sorted, minor chert, consolidated, grades to sandy limestone, abundant sandy limestone stringers, **tight to 3% intergranular porosity, orange brown fluorescence, slow white halo cut, poor show.**
- 1237-1240 m **SHALE:** medium to dark grey, micromicaceous, slightly carbonaceous, **abundant oil stain,** blocky to minor subfissile.
- 1240-1242.5 m **SANDSTONE:** light to medium grey, 15% chert conglomerate pebbles, 60% quartz grains, 5% dark minerals, 20% calcareous cement and argillaceous matrix, very fine to fine grained, minor medium grain, poor sorted, subangular to subrounded, minor chert, consolidated, grades to conglomerate in part, **tight to 3% intergranular porosity, no fluorescence, thin white halo to very slow thin massive cut, very poor show.**

- 1242.5-1248 m **SANDSTONE:** light to medium grey, minor salt and pepper, 70% quartz, 10% dark minerals, 20% calcareous cement and argillaceous matrix, very fine to fine grained, minor medium grains, subangular, well sorted, minor chert, consolidated, **minor oil stain, 3 to 6% intergranular porosity, minor yellow brown fluorescence, bright white halo to good massive cut, fair show.**
- 1248-1250 m **SANDSTONE:** light to medium grey, minor salt and pepper, 60% quartz, 10% dark minerals, 30% calcareous cement and argillaceous and clay matrix, very fine to fine grain, minor medium grains, subangular, well sorted, minor chert, consolidated, minor shale stringers, **tight to 3% intergranular porosity, no fluorescence, bright white halo cut, poor show.**
- 1250-1255 m **SHALE:** dark grey to black, very fine texture, moderately soft, rare sandstone stringers, **oil stain,** blocky to subfissile.
- 1255-1260 m **SHALE:** light to medium grey, micromicaceous, very fine texture, moderately soft, calcareous, rare sandstone stringers, rare oil stain, blocky to subfissile.
- 1260-1265 m **SHALE:** light to medium grey, micromicaceous, very fine texture, moderately firm, calcareous, minor coarse sand grains and conglomerate pebbles, rare pyrite, rare sandstone stringers, blocky to minor subfissile.
- 1265-1269.5 m **SHALE:** light to medium grey, micromicaceous, very fine texture, moderately firm, calcareous, trace coarse sand grains and conglomerate pebbles, rare pyrite, minor sandstone and argillaceous limestone stringers, blocky to minor subfissile.
- 1269.5-1275 m **SANDSTONE WITH CONGLOMERATE BEDS:**
- SANDSTONE:** light to medium grey, 70% quartz grains, 10% dark minerals, 20% calcareous cement, very fine to medium grain, moderately sorted, subangular to subrounded, minor chert, consolidated, grades to sandy limestone in part, trace shale stringers, **tight to 3% intergranular porosity, minor blue white fluorescence, slow thin white halo cut, very poor show;**
- CONGLOMERATE:** light to medium grey, 40% chert pebbles, 60% sandstone matrix as above, **tight to 3% intergranular porosity, minor blue white fluorescence, slow thin white halo cut, very poor show.**

1275-1278 m

**SANDSTONE WITH CONGLOMERATE BEDS:**

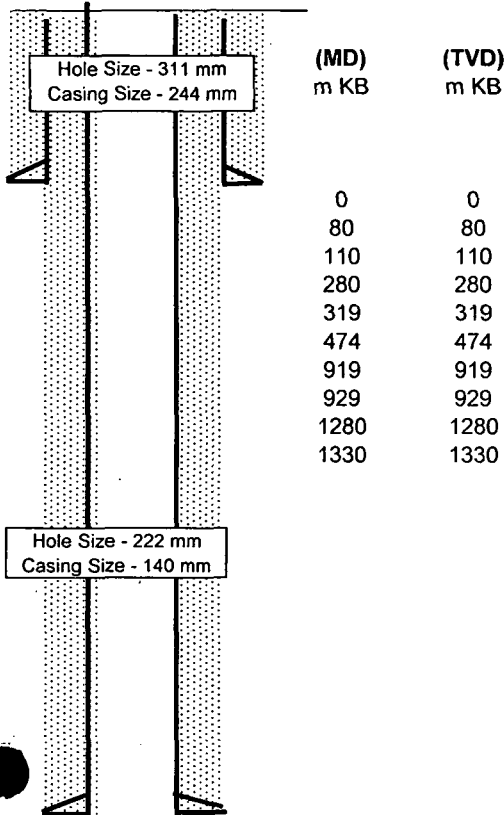
**SANDSTONE:** light to medium grey, 70% quartz grains, 10% dark minerals, 20% calcareous cement, very fine to medium grain, moderately sorted, subangular to subrounded, minor chert, consolidated, grades to sandy limestone in part, trace shale stringers, **tight to 3% intergranular porosity, minor blue white fluorescence, slow thin white halo cut, very poor show;**

**CONGLOMERATE:** light to medium grey, 40% chert pebbles, 60% sandstone matrix as above, **tight to 3% intergranular porosity, minor blue white fluorescence, slow thin white halo cut, very poor show.**

**TOTAL DEPTH** was reached at 1278.0 m (-673.7 m SS) at 12:15 hrs. on March 28, 2005.

Drilling Rig: Nabors 71 or 73

Casing Bowl 229 mm x 21 MPa x 244 mm



Working Interest		
Devon Canada Corporation	100.0%	AFE #: 5270083
Estimated # Days:	20	AFE Est: \$4,570,000
Elevations / Depths		
Ground Level	Survey'd	599.3 m
Kelly Bushing		603.9 m
Total Depth (TVD)		1330 mKB
Formation Tops		

Formation Tops	Depth Subsea (m)	Expected Pressure	EMD	Potential Problems
Parkin Shale	603			LC
Parkin Sand	523	808 kPa	1029.6 kg/m <sup>3</sup>	
Whitstone River	493	1,111 kPa	1029.6 kg/m <sup>3</sup>	
Jungle Creek	323	2,828 kPa	1029.6 kg/m <sup>3</sup>	
Blackie	284	3,222 kPa	1029.6 kg/m <sup>3</sup>	
Hart River	129	4,787 kPa	1029.5 kg/m <sup>3</sup>	
Chance*	-316	10,700 kPa	1186.9 kg/m <sup>3</sup>	AP
Canoe	-326	9,383 kPa	1029.6 kg/m <sup>3</sup>	
Ford Lake, top	-677	12,928 kPa	1029.6 kg/m <sup>3</sup>	
TD in the Ford Lake	727	13,433 kPa	1029.6 kg/m <sup>3</sup>	

\* Primary zone \*\* Secondary Zone (S-Sour Zone, AP-Abnormal Pressure, LC-Lost Circulation, WI-Water Injection, DP-Depleted)

**Geological Evaluation**

GSC Samples	SC to TD	5m int.
Devon Samples	SC to TD	5m int.
Gas Detection	Hot Wire	
Cores	None	
DST	Two anticipated	
Logging-	as per geological prognosis**	

**Additional Information**

\*\* Logging program will entail two porosity logs, resistance logs, velocity survey, and possible RFT

H2S is not expected, although necessary precautions will be taken should H2S be encountered.

**Drilling Fluids -**

Surface	0 - 360	Water based Gel / Lime
Main	360 - 1330	Water based Gel system

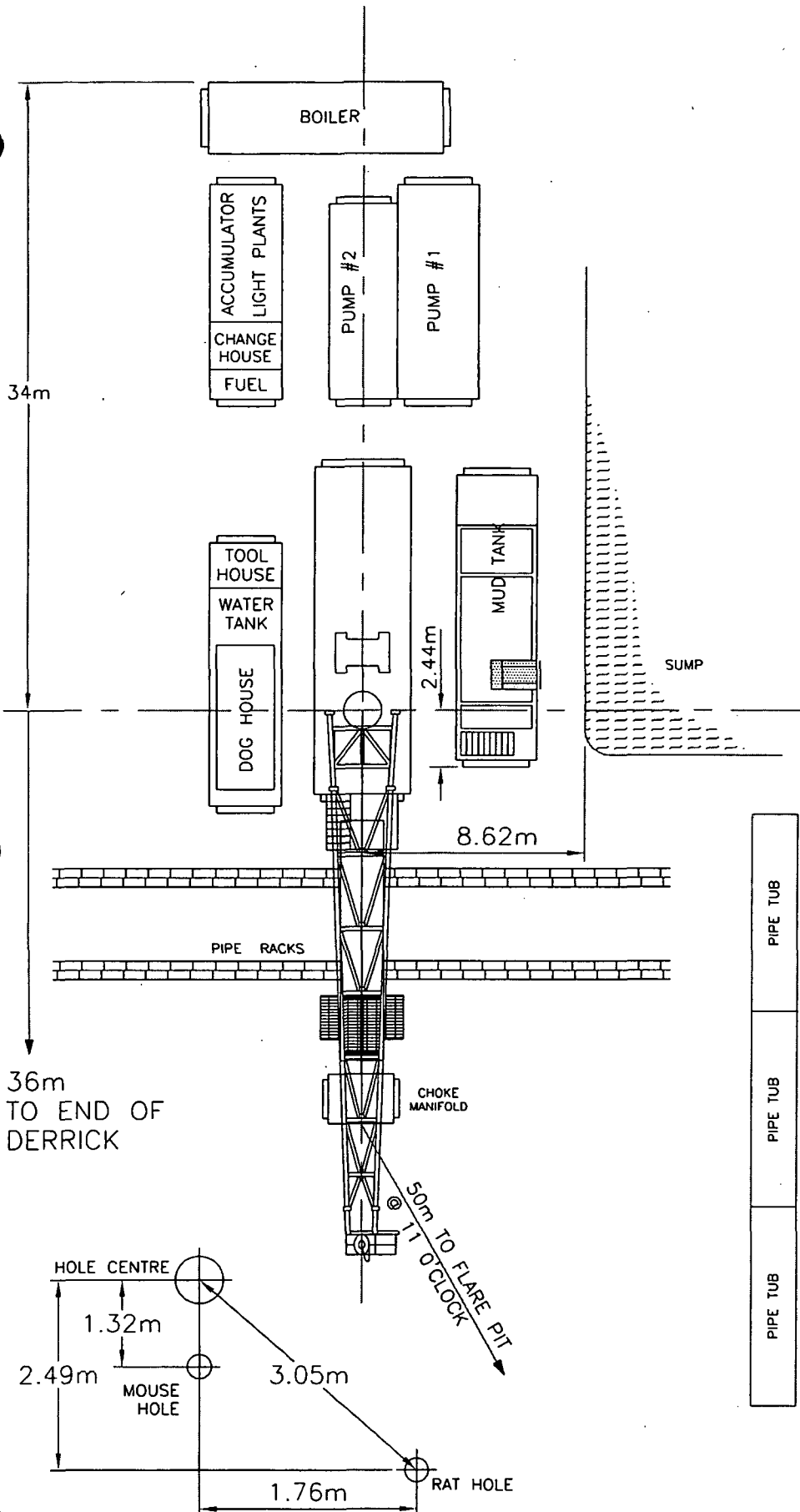
**Casing-Design**

Surface	0-360 m	244.5 mm, 53.6 kg/m, J-55 ST&C
	0-1330	139.7mm, 25.31kg/m, J-55, ST&C

**Cement -**

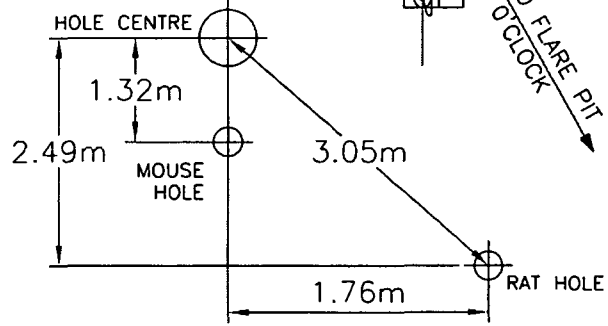
Surface	360 - 0	0:1:0 Class G + 2.0 % CaCl <sub>2</sub> (50% excess)
Main	1330 - 0	0:1:0 Class G + additives as required, volume based on caliper logs





34m

36m  
TO END OF  
DERRICK



**DRAWWORKS**  
SUPERIOR 700 PSD (700 hp/522 kW)  
Input: (2) CAT 3406 (801 hp/597 kW)

**MAST**  
Dreco  
Cantilever Double  
Height: 32.6 m  
G.N.C: 187,000 daN  
Static Hook Load: 124,500 daN (8 lines)  
Static Hook Load: 113,000 daN (6 lines)

**SUBSTRUCTURE**  
DRECO ONE PIECE, PINNED  
KB to Ground: 4.72 m  
Clear Work Height: 3.8 m

**MUD PUMP #1** (Triplex)  
GARDNER DENVER PZ-8 T  
Rated: 751 hp/560 kW  
Input: CAT D-398 (900 hp/671 kW)

**MUD PUMP #2** (Triplex)  
GARDNER DENVER PZ-7  
Rated: 550 hp/410 kW  
Input: CAT D-379 (550 hp/410 kW)

**MUD TANK**  
1 Tank (66 m<sup>3</sup>)  
Shaker: SWACO LINEAR MOTION  
Desilter: TOPCO 12-CONE  
2 Mixing Pumps: 50 hp/37 kW

**LIGHT PLANT**  
Rated: 349 hp/260 kW  
Input: CAT 3406 (288 hp/215 kW)  
Volts: 480 V

**B.O.P.'s** (279 mm x 21,000 kPa NACE)  
HYDRIL GK ANNULAR  
2 SHAFFER LWS SNGL GATES

**ROTARY TABLE**  
G.D. 444.5 mm

**SWIVEL**  
T.S.M 150  
Rated: 133,500 daN

**HOOK BLOCK**  
Block: GARDNER DENVER 200T  
Rated: 177,900 daN  
Hook: BJ 6150  
Rated: 133,500 daN

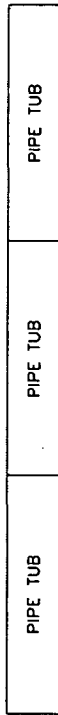
**CHOKE MANIFOLD**  
76 mm x 21,000 kPa

**ACCUMULATOR**  
WAGNER - 5 STATION E/H

**BOILER**  
Volcano (126 hp)

**TUBULARS**  
Drill pipe: 101.6 mm

**AUXILIARY EQUIPMENT**  
KELLY SPINNER  
PIPE SPINNER  
MAKE & BREAK RAMS



**#55**

2,600m

101.6mm DRILL PIPE  
OCT.09, 03, DWG. E55



As Agent for Ensign Drilling Partnership



# REES N.D.T. INSPECTION SERVICES LTD.



# DE- 1488

9113 - 111 Street  
Grande Prairie, Alberta T8V 4M5

Grande Prairie, AB  
Tel: (780) 539-3594  
Fax: (780) 532-8047

DISPATCH  
1-888-540-3594  
www.reesndt.com

BONNYVILLE, AB  
Tel: (780) 573-7630  
Fax: (780) 573-7796  
Email: ronvader@reesndt.com

July 13, 2004

**Ensign Drilling**  
2000 - 5<sup>th</sup> Street  
Nisku AB  
T9E 7X3

File #: R2k4-134-09  
WO#: D7209  
PO#: A1526  
Job#: 21281



## Inspection Certificate

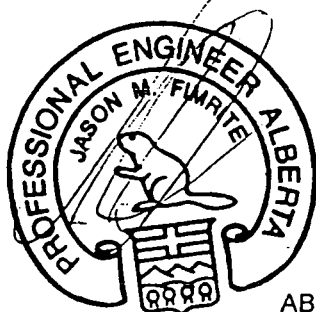
Certification of: Weld repairs on derrick  
Model: Modified Cantilever Double  
Unit #: Rig 55  
Serial No.: E8460568  
Make: Dreco Ltd.  
Capacity: 280,000 lbs/ 8 lines  
Owner: Ensign Drilling  
Repairs completed by: Lonewolf Welding

Rees Inspection Services Ltd. performed a visual and magnetic particle inspection on the above mentioned *Drilling Rig*.

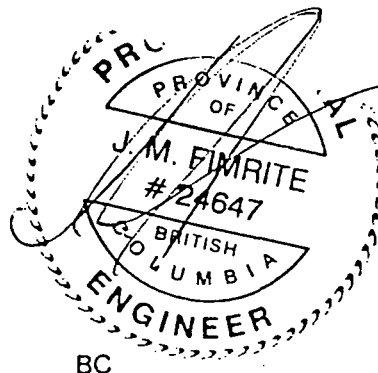
The undersigned Engineer reviewed all inspection reports upon completion of any required repairs. Based on this review of final inspection results, it is our opinion, that the *Drilling Rig* may be returned to service and operated within the original manufacturer's specifications.

This certification covers the above mentioned unit for a period of 24,000 hrs not to exceed original certification as per CAODC recommended practice 1.0, or until the unit is damaged by handling, transportation or operation.

Reviewed by,



Jason Fimrite, P.Eng.



BC

Crown E-1475



# Borza Inspections Ltd.

A Corrpro Company

Mailing Address: 86, 52313 RR 232, Sherwood Park, Alberta, Canada T8B 1B7

Shop Address: 5710 - 17 Street, Edmonton, Alberta, Canada T6P 1S4

Bus: (780) 944-2857 • Fax: (780) 440-2147

24 Hour Service

Edmonton, AB • Fort Nelson, BC

ISO 9003 - #97-598

August 12, 2002

Ensign Drilling Inc.

2001 - 4<sup>th</sup> Street

Nisku, Alberta

T9E 7W6



## CERTIFICATION

Equipment: Crown Assembly

Company No.: E1475      Borza Inspections Ltd. Stamp No.:M55160

Model: 5 - 36" Sheaves

Owner: Ensign Drilling Inc., Rig #55

Repair Facility: Ensign Drilling Inc. (W.O. 14061)

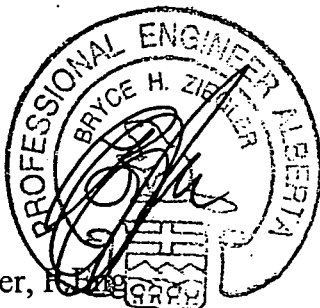
Borza File No's: E8019/M55160

We performed our engineering examination of this crown assembly on June 4, 2002 at Ensign Drilling Inc. The crown assembly was completely disassembled and sandblasted.

Borza technicians provided magnetic particle inspection services. Final NDT inspection revealed no defects.

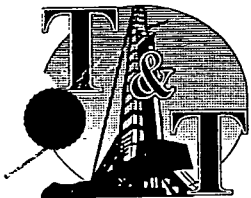
As a result of our inspections and review of repairs, we believe that this crown assembly may be safely returned to service within the manufacturer's original specifications.

This certification is valid for 1000 operating days as per CAODC T-94-1/RP-1.0, or until the crown assembly is damaged by handling or operation.



Bryce Ziegler, P.Eng.

PERMIT TO PRACTICE	
Borza Inspections Ltd.	
Signature	
Date	8/12/2002
PERMIT NUMBER: P-5761	
The Association of Professional Engineers, Geologists and Geophysicists of Alberta	



# INSPECTION SERVICES

8022 Coronet Road Edmonton, Alberta T6E 4N9  
Phone: 403-469-9688 Fax: 403-463-9389  
NON-DESTRUCTIVE EXAMINATION & ENGINEERING  
24 Hour Service

## EQUIPMENT CERTIFICATION

January 29, 2002

Issued to:

Swivel  
E-1870

Ensign Drilling Inc.  
2001 - 4<sup>th</sup> Street  
Nisku, Alberta  
T9E 7W6

Rig: Spare  
Equipment: TSM Swivel Assembly  
Model: 150 Ton  
Serial No.: E1870  
T&T Field Report No.: 23363  
Black Ink Enterprises Ltd. : W.O.: 1093  
Eng. File No.: 01084924

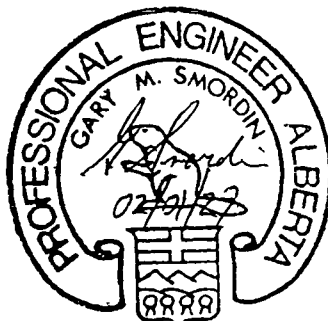
The above-mentioned equipment required Level IV inspection, repairs where needed and certification for service.

T&T Inspections & Engineering Ltd. conducted the magnetic particle inspection and visual examination. Recommended repair procedures were given to Black Ink Enterprises Ltd.

Based on the final inspection and review of critical dimensions and components, it is our opinion that the equipment is a safe operating unit and may be returned to service within the manufacturer's original ratings and specifications.

This certification is valid for a period of 1000 operating days, as per the recommendations provided by the Canadian Association of Oilwell Drilling Contractors, or until the unit has been damaged either as a result of operation, transportation or handling.

<b>PERMIT TO PRACTICE</b>	
T & T INSPECTIONS & ENGINEERING LTD.	
Signature	<i>G. Smordin</i>
Date	<i>January 29, 2002</i>
<b>PERMIT NUMBER: P 6501</b>	
The Association of Professional Engineers, Geologists and Geophysicists of Alberta	





ISO 9003 - #97-598

December 21, 2001

Ensign Drilling Inc.  
2001 - 4<sup>th</sup> Street  
Nisku, Alberta  
T9E 7W6

# Borza Inspections Ltd.

A Corrpro Company

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Shop Address: 5710 - 17 Street, Edmonton, Alberta, Canada T6P 1S4

Bus: (780) 944-2857 • Fax: (780) 440-2147

24 Hour Service

Edmonton, AB • Fort Nelson, BC

Hook  
★ E-1814

## CERTIFICATION

Equipment: BJ Hook Assembly

Company No.: E1814 Borza Inspections Ltd. Stamp No.: M51736

Model: Unimatic 6150 (150 Ton)

Owner: Ensign Drilling Inc., Rig #40

Repair Facility: Ensign Drilling Inc. (W.O. 12929)

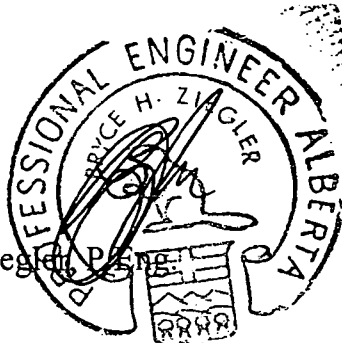
Borza File No's: E7050/M51736/M51445/P5911

We performed our engineering examination of this hook assembly on November 12 and 26, 2001 at Ensign Drilling Inc. The hook assembly was completely disassembled and sandblasted.

Borza technicians provided magnetic particle inspection services and welding procedures. Welding repairs were carried out by Ensign Drilling Inc. Final NDT inspection revealed no defects.

As a result of our inspections and review of repairs, we believe this hook assembly may be safely returned to service within the manufacturer's original specifications.

This certification is valid for 1000 operating days as per CAODC-T-94-2.0, or until the hook assembly is damaged by handling or operation.



Bryce Ziegler, P.Eng.

PERMIT TO PRACTICE	
Borza Inspections Ltd.	
Signature	<i>[Signature]</i>
Date	12/21/2001
PERMIT NUMBER: P-5781	
The Association of Professional Engineers, Geologists and Geophysicists of Alberta	

(a)



# Borza Inspections Ltd.

A Corpro Company

Mailing Address: 86, 52313 RR 232, Sherwood Park, Alberta, Canada T8B 1B7

Shop Address: 5710 - 17 Street, Edmonton, Alberta, Canada T6P 1S4

Bus: (780) 944-2857 • Fax: (780) 440-2147

24 Hour Service

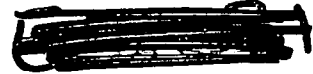
Edmonton, AB • Fort Nelson, BC

ISO 9003 - #97-598

December 21, 2001

Ensign Drilling Inc.  
2001 - 4<sup>th</sup> Street  
Nisku, Alberta  
T9E 7W6

Block



E-2361

## CERTIFICATION

Equipment: Gardner Denver Traveling Block Assembly

Company No.: ~~XXXXX~~ Borza Inspections Ltd. Stamp No.: M51735

Model: 200 Ton E-2361

Owner: Ensign Drilling Inc., Rig #40

Repair Facility: Ensign Drilling Inc. (W.O. 12929)

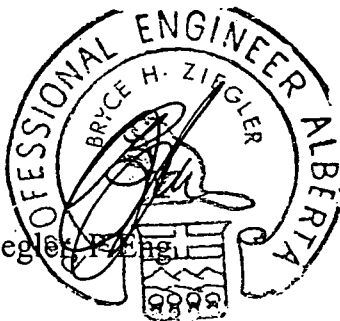
Borza File No's: E7050/M51735

We performed our engineering examination of this traveling block assembly on November 12, 2001 at Ensign Drilling Inc. The traveling block assembly was completely disassembled and sandblasted.

Borza technicians provided magnetic particle inspection services. Final NDT inspection revealed no defects.

As a result of our inspections and review of repairs, we believe this traveling block assembly may be safely returned to service within the manufacturer's original specifications.

This certification is valid for 1000 operating days as per CAODC-T-94-2.0, or until the traveling block assembly is damaged by handling or operation.



Bryce Ziegler, P.Eng.

PERMIT TO PRACTICE	
Borza Inspections Ltd.	
Signature	
Date	12/21/2001
PERMIT NUMBER: P-5781	
The Association of Professional Engineers, Geologists and Geophysicists of Alberta	

Bails.



**INDUSTRIAL INC.**

11650 - 156 STREET, EDMONTON, ALBERTA T5M 3T5  
(780) 455-6444 • FAX (780) 452-0429

- ALCO MACHINE WORKS INC.
- ALCO FLOW CONTROL LTD.
- MICRO INDUSTRIES (ALBERTA) LTD.
- ALCO INDUSTRIAL, a Division of Alco Machine Works Inc.

June 27, 2001

Gator Oilfield Supply  
5312 - 89<sup>th</sup> Street  
Edmonton, Alberta  
T6E 5P9

E-70155

**Equipment Certification**

**Equipment: KOT Bail Links**  
**Model: 2-1/4" x 96", 250-Ton**  
**Serial No.: 22732**  
**T&T Inspection Report No.: 22732**  
**Alco Machine Works Inc. W.O.: 32336**  
**Engineering File No.: 32336-E**

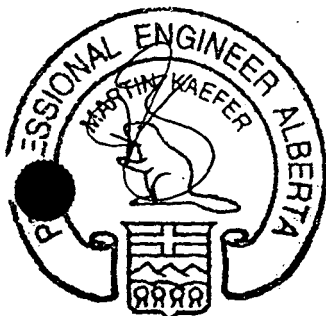
The above-mentioned bail links required a Level IV inspection (as per Canadian Association of Oilwell Drilling Contractors, R.P. 4.0), applicable repairs, and certification for service.

T&T Inspections & Engineering Ltd. conducted a magnetic particle (MP) inspection on June 21, 2001 after the bail links were completely sandblasted.

Repair procedures were developed based on the MP inspection report as well as a thorough visual examination performed by qualified personnel with Alco Machine Works Inc.

Based on the final inspection on June 27, 2001 after load testing, it is our opinion that the bail links are a safe operating unit and may be returned to service within the manufacturers original rating and specification.

This certification is valid for a period of 6 years, as per the recommendations provided by the Canadian Association of Oilwell Drilling Contractors, or until the bail links have been damaged either as a result of operation, transportation or handling.



**PERMIT TO PRACTICE**  
**ALCO MACHINE WORKS INC.**

Signature [Signature]

Date June 27, 2001

**PERMIT NUMBER: P7208**  
The Association of Professional Engineers,  
Geologists and Geophysicists of Alberta



# INDUSTRIAL INC.

11650 - 156 STREET, EDMONTON, ALBERTA T5M 3T5  
(780) 455-6444 • FAX (780) 452-0429

- ALCO MACHINE WORKS INC.
- ALCO FLOW CONTROL LTD.
- MICRO INDUSTRIES (ALBERTA) LTD.
- ALCO INDUSTRIAL, a Division of Alco Machine Works Inc.

March 8, 2001

Ensign Drilling Inc.  
2001 - 4<sup>th</sup> Street  
Nisku, Alberta  
T9E 7W6

Elevator  
E#1439

## Equipment Certification

**Rig: 92**  
**Equipment: WTM Drill Pipe Elevator**  
**Model: 4-1/2" x 18", 150-Ton**  
**Serial No.: E-1439**  
**T&T Inspection Report No.: 6074**  
**Alco Machine Works Inc. W.O.: 30631**  
**Engineering File No.: 30631-E**

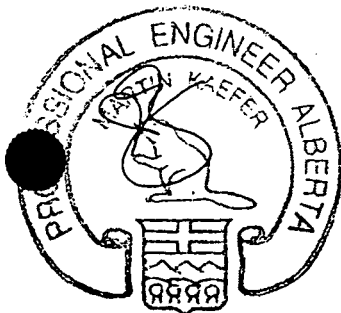
above-mentioned elevator required a Level IV inspection (as per Canadian Association of Oilwell Drilling Contractors, R.P. 2.0), applicable repairs, and certification for service.

T&T Inspections & Engineering Ltd. conducted a magnetic particle (MP) inspection on January 18, 2001, after the elevator was completely disassembled and sandblasted.

Repair procedures were developed based on the MP inspection report as well as a thorough visual examination performed by qualified personnel with Alco Machine Works Inc.

Based on the final inspection on March 8, 2001, after load testing, it is our opinion that the elevator is a safe operating unit and may be returned to service within the manufacturers original rating and specification.

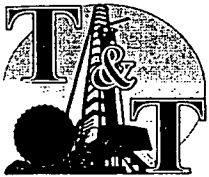
This certification is valid for a period of 500 operating days, as per the recommendations provided by the Canadian Association of Oilwell Drilling Contractors, or until the elevator has been damaged either as a result of operation, transportation or handling.



<p><b>PERMIT TO PRACTICE</b>  <b>ALCO MACHINE WORKS INC.</b></p> <p>Signature _____</p> <p>Date <u>March 8, 2001</u></p> <p><b>PERMIT NUMBER: P7208</b>  The Association of Professional Engineers,  Geologists and Geophysicists of Alberta</p>
--



55-2711



# INSPECTIONS & ENGINEERING

407 - 22 Avenue Nisku, Alberta T9E 7X2  
Phone: 780-955-9688 Fax: 780-955-9389  
NON-DESTRUCTIVE EXAMINATION & ENGINEERING  
24 Hour Service

## EQUIPMENT CERTIFICATION

September 13, 2004

Issued to:

Ensign Drilling Inc.  
2000 - 5 Street  
Nisku, Alberta  
T9E 7X3

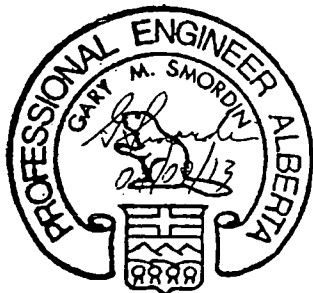
Rig #: ..... 55  
 Equipment: ..... Dreco Substructure  
 Model: ..... 1 Piece  
 Serial #: ..... E-8460-568  
 Equipment #: ..... E-2711  
 Floor Height: ..... 15'- 4" / 4.67 meters  
 Casing Capacity: ..... 275,000 Lbs. / 123,300 daN  
 Setback Capacity: ..... 275,000 Lbs. / 123,300 daN  
 T & T Field Report #: ..... 27829  
 Engineering File #: ..... 04067869

The substructure was prepared for a Level IV inspection, any applicable repairs, and certification for service. T&T Inspections & Engineering Ltd. examined the substructure in full detail, which was in an assembled and sandblasted condition. Recommended repair procedures were given to Ensign Drilling Inc..

Based on the final inspection and repairs completed, it is our opinion that the equipment is a safe operating unit and may be returned to service within the manufacturer's original ratings and specifications.

This certification is valid for a period 1000 operating days, as per recommendations provided by the Canadian Association of Oilwell Contractors, or until the unit has been damaged either as a result of operation, transportation or handling. In addition, the owner must perform regular routine inspections as per CAODC guidelines on the substructure.

**PERMIT TO PRACTISE**  
 T & T INSPECTION & ENGINEERING LTD.  
 Signature: G. Smordyn  
 Date: September 13, 2004  
**PERMIT NUMBER: P 6501**  
 The Association of Professional Engineers,  
 Geologists and Geophysicists of Alberta





**WIRE ROPE**  
INDUSTRIES LTD.

BRL-2325

**CERTIFICATE OF PROOFLOADING**

**CUSTOMER:**  
ENSIGN DRILLING INC  
2002 - 5 STREET  
NISKU, ALBERTA

**CERTIFICATE NO:**  
04034

**W.R.I. ORDER NO:**  
409167

**DESCRIPTION OF MATERIAL:**  
PEND, WR, 1-3/8 X 61.42 FT, RRL, IWRC, OPSK, OPSK  
1-3/8" 6X37 X 61'5" C/W CUSTOMERS OPEN  
SPELTER SOCKET EACH END

**CUSTOMER P.O.:**  
1-09295 RIG 55

**WORKING LOAD LIMIT:**  
38,400 LBS

**QUANTITY:** 2

**AT WORK LOAD LIMIT FACTOR:**  
FIVE TO ONE

**GRADE (TENSILE) OF MATERIAL:**

EIPS

**DESCRIPTION OF TEST:**

Straight Pull on 100T Coatbridge Test Bed -  
Electronic Load Cell

**NOMINAL BREAKING LOAD:**

192,000 LBS

**PROOFLOADING**

76,800 LBS

**ACTUAL BREAKING LOAD:**

N/A

**TEST MACHINE:**

100 Ton Coatbridge Test Bed - Electronic  
Load Cell

**REMARKS:**

**DATE CALIBRATED:**

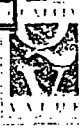
September 20, 2001

**DATE:**

09-06-07

**PER:**

*Winston Ellis*  
WINSTON ELLIS



10-21 Ave.,  
Edmonton, AB T6L 6L8  
Phone/Fax: (780) 450-1485

# M.C. Inspections Inc.

Inspection Report

4840

Service Alberta for 15 years

Client Wire Rope Industries

Address 2920-101st

Location Emergen Drillers Reg #55

P.O.# 36650 W.O.# \_\_\_\_\_ Date June 6/2002

Type of Inspection

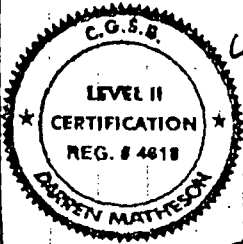
Magnetic Particle Inspection Dry MPI  Fluorescent Particle  AC Con't  DC Res   
 Coil  Yoke

Liquid Penetrant Inspection Visible  Fluorescent  Waterwash  Post Emulsified   
 Solvent Removable

Items Inspected: to N.D. as requested -

4- 1 3/8 open sockets (CIW pins)

Inspection Results: All were found to be free of any  
usual defects at time of inspection  
attention shop formal accepted by  
same.



By [Signature] Accepted By [Signature]

REPORTS represent good faith opinions only, and are not to be considered warranties or guarantees  
 on or usability of all equipment or material inspected.



**WIRE ROPE**  
INDUSTRIES LTD.

BRL-2429

**CERTIFICATE OF PROOFLOADING**

**CUSTOMER:**

ENSIGN DRILLING INC  
2002 - 5 STREET  
NISKU, ALBERTA

**CERTIFICATE NO:**

04034

**W.R.I. ORDER NO:**

409167

**DESCRIPTION OF MATERIAL:**

PEND, WR, 1-3/8X61.42FT, RRL, IWRC, OPSK, OPSK  
1-3/8" 6X37 X 61'5" CW CUSTOMERS OPEN  
SPELTER SOCKET EACH END

**CUSTOMER P.O.:**

1-09295 RIG 55

**WORKING LOAD LIMIT:**

38,400 LBS.

QUANTITY: 2

**AT WORK LOAD LIMIT FACTOR:**

FIVE TO ONE

**GRADE (TENSILE) OF MATERIAL:**

EIPS

**DESCRIPTION OF TEST:**

Straight Pull on 100T Coatbridge Test Bed -  
Electronic Load Cell

**NOMINAL BREAKING LOAD:**

192,000 LBS

**PROOFLOADING**

76,800 LBS

**ACTUAL BREAKING LOAD:**

N/A

**TEST MACHINE:**

100 Ton Coatbridge Test Bed - Electronic  
Load Cell

**REMARKS:**

**DATE CALIBRATED:**

September 20, 2001

DATE:

02-06-07

PER:

*Clinton Elms*  
CLINTON ELMS



9840

13 years

Wire Rope Industries

2920-101 St

Emerald Drillers Reg #55

Location

P.O.# 36650

W.O.#

Date June 6/2002

Type of Inspection

Magnetic Particle Inspection Dry MPI  Flourescent Particle  AC Con't  DC Res   
 Coil  Yoke   
 Liquid Penetrant Inspection Visible  Flourescent  Waterwash  Post Emulsified   
 Solvent Removable

Items Inspected: to N.D.T as requested -

4 - 1 3/8 open pockets (CIW PINS)

DING

IMIT:

MIT FACTOR:

EST: 100T Coatbridge Test Bed - Cell

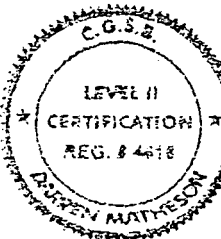
G

100T Test Bed - Electronic

101

Inspection Results:

All were found to be free of any usual defects at time of inspection. Attention shop formal accepted by none.



Served By [Signature]

Accepted By [Signature]

INSPECTION REPORTS represent good faith opinions only, and are not to be considered warranties or guaranties of quality, classification or usability of all equipment or material inspected.

02-06-07

[Signature] CLINTON ELIIS





SB-70797

# Certification

Purchase Date: December 14, 2004

Customer: Ensign Drilling

Model No.: DBI 3103108

Serial No.: 23911

ID No.:

Order No.: 6109741-00

This unit has been manufactured in accordance with CSA Standard Z259.2. Type 2 and 3 Devices shall be returned to Manufacturer Approved Service Agent no more than two (2) years from the date of manufacture for inspection and maintenance, and annually thereafter.

*For Service/Recertification:*

**Century Vallen**  
4810 - 92 Avenue  
Edmonton, Alberta

The logo for Century Vallen Technical Services. It features the word "Century" in a stylized, cursive font, followed by "Vallen" in a similar font. Below this, the words "Technical Services" are written in a bold, sans-serif font. A small graphic element resembling a stylized 'V' or a leaf is positioned between "Vallen" and "Technical Services".

**Century Vallen**  
**Technical Services**





SB-70796

# Certification

Purchase Date: December 14, 2004

Customer: Ensign Drilling

Model No.: DBI3103208

Serial No.: 30775

ID No.:

Order No.: 6109741-00

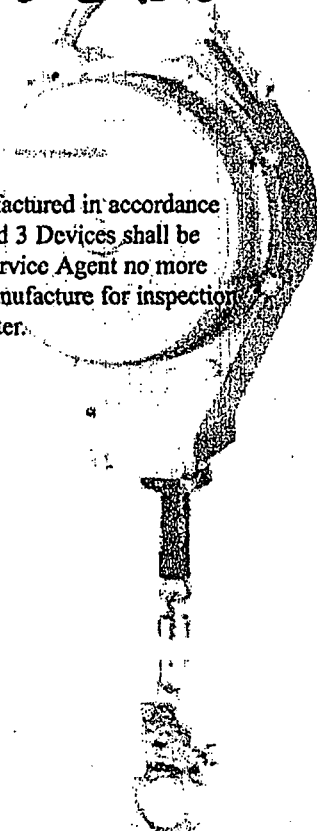
This unit has been manufactured in accordance with CSA Standard Z259.2. Type 2 and 3 Devices shall be returned to Manufacturer Approved Service Agent no more than two (2) years from the date of manufacture for inspection and maintenance, and annually thereafter.

*For Service/Recertification:*

**CenturyVallen**  
4810 - 92 Avenue  
Edmonton, Alberta

The logo for CenturyVallen Technical Services. It features the word "CenturyVallen" in a stylized, cursive font. Below it, the words "Technical Services" are written in a bold, sans-serif font. A small graphic of a tree or plant is positioned between the two lines of text.

**CenturyVallen**  
**Technical Services**



SR-70345



# Certification

Date: Jan 12/2005

Work Order No.: N/A. 6/06

Customer: Ensign Drilling

Model No. 3103208

Serial No.: 22309

ID No.: E-70345

Next Service Due: Jan 2006

This is to verify that the above Fall Protection Block was serviced to manufacturers specifications to meet or exceed the CSA requirements (CSA Z259.2.2-98).

This Fall Protection Device requires re-certification one year from the above date. Extreme working conditions may indicate the necessity to increase annual service.

Technician: \_\_\_\_\_

Service Performed by:  
CenturyVallen  
4810 - 92 Avenue  
Edmonton, Alberta







# Certification

SB-2968

Date: Jan 12/2005

Work Order No.: NK 03677

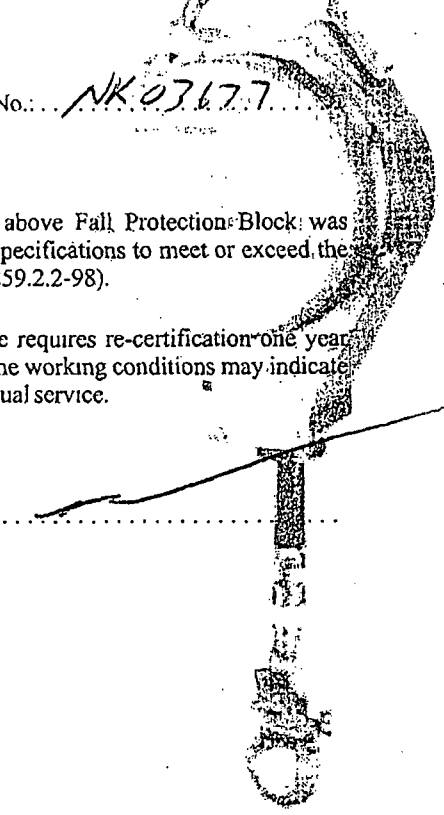
Customer: Ensign Drilling  
Model No.: 3103224 (E3924-20)  
Serial No.: 17592  
ID No.: E2968  
Next Service Due: Jan 2006

This is to verify that the above Fall Protection Block was serviced to manufacturers specifications to meet or exceed the CSA requirements (CSA Z259.2.2-98).

This Fall Protection Device requires re-certification one year from the above date. Extreme working conditions may indicate the necessity to increase annual service.

Technician: \_\_\_\_\_

Service Performed by:  
CenturyVallen  
4810 - 92 Avenue  
Edmonton, Alberta





# Certification

SB-2477

Date: Jan 12/2005

Work Order No.: NK 08313

Customer: Ensign Drilling

Model No.: Z3400

Serial No.: 027402

ID No.: E2477

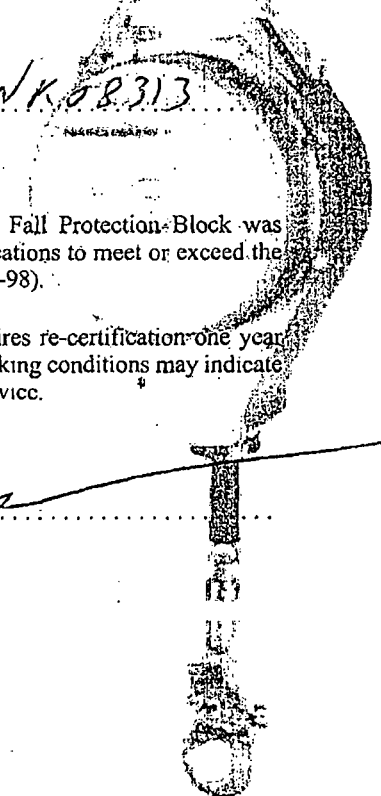
Next Service Due: Jan 2006

This is to verify that the above Fall Protection Block was serviced to manufacturers specifications to meet or exceed the CSA requirements (CSA Z259.2.2-98).

This Fall Protection Device requires re-certification one year from the above date. Extreme working conditions may indicate the necessity to increase annual service.

Technician: \_\_\_\_\_

Service Performed by:  
CenturyVallen  
4810 - 92 Avenue  
Edmonton, Alberta



SB-2195



# Certification

Repair Date: ENSIGN DRILLING LTD.

E 2195

RIG #:

REPAIR

DBI/SALA  
 2 Thorncliffe Park Drive  
 Unit 14  
 Toronto, Ontario M4H 1H2  
 1 800 205 6866

We hereby certify the following items to meet or exceed the CSA requirements

Model Number	Serial Number
3403600	025349
	130 ft. SRL

All certifications apply to new (or serviced products). Certification void if manufacturer's instructions for use, care, and maintenance are not followed. Alterations or misuse of this product will also void all certification.

Notes: Annual inspection and/or service by an authorized service center is recommended. Extreme working conditions may indicate the necessity to increase the frequency of inspection and/or service.

Signature [Signature] Title DBI-TECH Date \_\_\_\_\_



Nisku Safety 1 800 661 8505

015-013246

**RS MACHINE & MANUFACTURING LTD.**

1207 - 8 Street  
NISKU, AB. T9E 7M3

TO-6167

Phone (780) 955 7981  
Fax (780) 955 7991

**LOAD TEST CERTIFICATE  
TONGS**

DATE: **SEPTEMBER 13, 2002**  
CERT: **LTT-0902-22819-0016**  
CUSTOMER: **ENSIGN DRILLING INC.**  
ADDRESS: **2002-5TH STREET  
NISKU, AB  
T9E 7X3**

RIG #: **58**

DESCRIPTION: **TYPE B 1/2 SET      39" LEVER**  
MANUFACTURER: **WTM**  
SERIAL NUMBER: **F6167**  
LUG: **5 1/4-7 1/4**  
RATED CAPACITY: **35000 FT LBS**  
TEST TO: **35000 FT LBS**  
RS W.O. NUMBER: **22819**  
INSPECTION NUMBER: **M57916**

AUTHORIZED BY: \_\_\_\_\_



**R.S. Machine & Manufacturing Ltd.**



A Corpro Company

Head Office: 5710 - 17th Street  
Edmonton, Alberta T6P 1S4  
Branch Office: P.O. Box 2020, Fort Nelson, BC V0C 1R0

**24 HOUR SERVICE**  
BUS: (780) 944-2857  
FAX: (780) 440-2147

# MAGNETIC PARTICLE EXAMINATION REPORT

FIELD REPORT NUMBER **M - 57918**

ISO 9003 - #97-598

Page: 1 of 1  
Date: SEP-17/2002  
Job #: 22221  
P.O. #:

CLIENT: RS MACHINE / ENSIGN.      ZIG # 58  
LOCATION: NISKU AB  
ITEM EXAMINED: 8) WTM B LUG JAWS.  
TEST METHOD: ASTM E-709  
ACCEPTANCE STANDARD: ASTM E-125

## TECHNIQUE DETAILS

- BI PROCEDURE NO. MT-2F
- MPI EQUIPMENT:  
 Manufacturer: MAGNAPLEX Type: y6 Serial No: 0802 Last Calibration: 09/02  
 Manufacturer: SPECTROLINE Type: SB100PX Serial No: 1363917 Last Calibration: "
- MAGNETIZING METHOD:  AC  DC •  Continuous  Residual •  Prod  Yoke  Coil
- MAGNETIC PARTICLES:  Dry (Color \_\_\_\_\_)  Wet •  Fluorescent  Non-fluorescent
- Manufacturer: MAGNAPLEX Type: 14A-01C064
- SURFACE CONDITION:  Clean Bare Metal  As Ground  Machined  Sand Blasted  Painted  Loose Scale Removed

## EXAMINATION RESULTS & COMMENTS

FINAC

FINAC MAGNETIC PARTICLE EXAMINATION WAS PERFORMED ON THE ABOVE

ITEMS TESTED:      2) 9-10<sup>3</sup>/<sub>4</sub>"      LUGS  
                          2) 6<sup>3</sup>/<sub>8</sub>-8<sup>5</sup>/<sub>8</sub>"      "  
                          2) 4<sup>1</sup>/<sub>2</sub>-5<sup>3</sup>/<sub>4</sub>"      "  
                          2) 2<sup>7</sup>/<sub>8</sub>-4<sup>7</sup>/<sub>8</sub>"      "

RESULTS: ~~CRACKS WERE DETECTED~~  
NO RELEVANT INDICATIONS WERE DETECTED @ TIME OF FINAC EXAMINATION.

## SIGNATURES

CLIENT REPRESENTATIVE: \_\_\_\_\_  
TECHNICIAN (Sign): \_\_\_\_\_  
TECHNICIAN (Print): R. BERT      CCSB Level      ASNT Level  
ASSISTANT (Print): \_\_\_\_\_

B.I. JOB #

\*Client Representative's Signature indicates acceptance of report and results.

**RS MACHINE & MANUFACTURING LTD.**

1207 - 8 Street  
NISKU, AB. T9E 7M3

TO-6168

Phone (780) 955 7981

Fax (780) 955 7991

**LOAD TEST CERTIFICATE**

**TONGS**

DATE: SEPTEMBER 13, 2002  
CERT: LTT-0902-22820-0017  
CUSTOMER: ENSIGN DRILLING INC.  
ADDRESS: 2002-5TH STREET  
NISKU, AB  
T9E 7X3  
  
RIG #: 58  
  
DESCRIPTION: TYPE B 1/2 SET 39" LEVER  
MANUFACTURER: WTM  
SERIAL NUMBER: F6168  
LUG: 5 1/4-7 1/4  
RATED CAPACITY: 35000 FT LBS  
TEST TO: 35000 FT LBS  
RS W.O. NUMBER: 22820  
INSPECTION NUMBER: M57917

AUTHORIZED BY:



R.S. Machine & Manufacturing Ltd.



# MAGNETIC PARTICLE EXAMINATION REPORT

FIELD REPORT NUMBER **M - 57918**

Page: 1 of 1

ISO 9003 - #97-598

Date: SEP-17/2002

Job #: 22821

P.O. #: \_\_\_\_\_

*A Corpro Company*  
Head Office:  
5710 - 17th Street  
Edmonton, Alberta T6P 1S4  
Branch Office:  
P.O. Box 2020, Fort Nelson, BC V0C 1R0  
**24 HOUR SERVICE**  
BUS: (780) 944-2857  
FAX: (780) 440-2147

CLIENT: RS MACHINE / ENSIGN.      ZIG # 58  
LOCATION: NISKU, AB  
ITEM EXAMINED: 8) WTM B LUG JAWS.  
TEST METHOD: ASTM E-709  
ACCEPTANCE STANDARD: ASTM E-125

## TECHNIQUE DETAILS

- BI PROCEDURE NO. MT-2F
- MPI EQUIPMENT:  
 Manufacturer: MAGNAFLUX Type: Y6 Serial No: 0802 Last Calibration: 09/02  
 Manufacturer: SPECTROLINE Type: SB100PX Serial No: 1363917 Last Calibration: "
- MAGNETIZING METHOD:  AC  DC •  Continuous  Residual •  Prod  Yoke  Coil
- MAGNETIC PARTICLES:  Dry (Color \_\_\_\_\_)  Wet •  Fluorescent  Non-fluorescent
- Manufacturer: MAGNAFLUX Type: 14A-01L06H
- SURFACE CONDITION:  Clean Bare Metal  As Ground  Machined  Sand Blasted  Painted  Loose Scale Removed

## EXAMINATION RESULTS & COMMENTS

FINAL

FINAL MAGNETIC PARTICLE EXAMINATION WAS PERFORMED ON THE ABOVE

ITEMS TESTED:      2) 9-10<sup>3</sup>/<sub>4</sub>"      LUGS  
                          2) 6<sup>7</sup>/<sub>8</sub>-8<sup>5</sup>/<sub>8</sub>"      "  
                          2) 4<sup>1</sup>/<sub>2</sub>-5<sup>3</sup>/<sub>4</sub>"      "  
                          2) 2<sup>7</sup>/<sub>8</sub>-4<sup>7</sup>/<sub>8</sub>"      "

RESULTS: ~~CRACKS WERE DETECTED~~  
NO RELEVANT INDICATIONS WERE DETECTED @ TIME OF FINAL EXAMINATION.

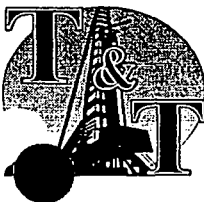
## SIGNATURES

CLIENT REPRESENTATIVE \_\_\_\_\_  
TECHNICIAN (Sign) \_\_\_\_\_  
TECHNICIAN (Print) R. BOON      CGSB      ASNT  
ASSISTANT (Print) \_\_\_\_\_

B.I. JOB #

\*Client Representative's Signature indicates acceptance of report and results.

BB-10021



# INSPECTIONS & ENGINEERING

407 - 22 Avenue Nisku, Alberta T9E 7X2  
Phone: 780-955-9688 Fax: 780-955-9389  
NON-DESTRUCTIVE EXAMINATION & ENGINEERING  
24 Hour Service

## EQUIPMENT CERTIFICATION

July 26, 2004

Issued to:

Ensign Drilling Inc.  
2105 - 8 Street  
Nisku, Alberta  
T9E 7Z1

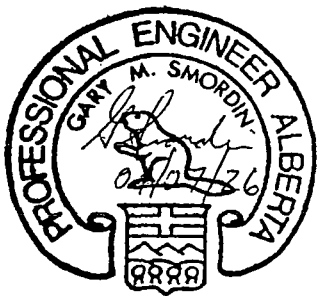
Rig #: ..... 55  
 Equipment: ..... Superior Brake Bands  
 Model: ..... 700  
 Stamped: ..... T&T 27816-1,-2  
 Equipment #: ..... E#BB10021  
 T & T Field Report #: ..... 27816  
 Ensign Drilling Inc.: ..... W.O.# 18556  
 Engineering File #: ..... 04077950

The above-mentioned equipment required a Level IV inspection, repairs where needed and certification for service. The bands were in a new manufactured condition at the time of magnetic particle inspection.

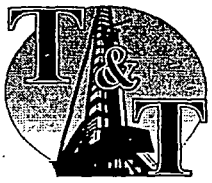
Based on the inspection and review of critical dimensions, it is our opinion that the equipment is a safe operating unit and may be placed into service within the manufacturer's original ratings and specifications.

This certification is valid for a period of 1000 operating days, as per the recommendations provided by the Canadian Association of Oilwell Drilling Contractors, or until the unit has been damaged either as a result of operation, transportation or handling.

**PERMIT TO PRACTISE**  
 T & T INSPECTION & ENGINEERING LTD.  
 Signature G. Smordin  
 Date July 26, 2004  
**PERMIT NUMBER: P 6501**  
 The Association of Professional Engineers,  
 Geologists and Geophysicists of Alberta







# INSPECTIONS & ENGINEERING

407 - 22 Avenue Nisku, Alberta T9E 7X2  
Phone: 780-955-9688 Fax: 780-955-9389  
NON-DESTRUCTIVE EXAMINATION & ENGINEERING  
24 Hour Service

## EQUIPMENT CERTIFICATION

August 05, 2004

Issued to:

Ensign Drilling Inc.  
2105 - 8 Street  
Nisku, Alberta  
T9E 7Z1

Rig #: ..... 55  
Equipment: ..... Superior Brake Linkage  
Model: ..... 700  
Stamped: ..... T&T 27841  
Equipment #: ..... E1483  
T & T Field Report #: ..... 27841  
Ensign Drilling Inc.: ..... W.O.# 18557  
Engineering File #: ..... 04077942

The above-mentioned equipment required a Level IV inspection, repairs where needed and certification for service.

T&T Inspections & Engineering Ltd. conducted the magnetic particle inspection and visual examination. Recommended repair procedures were given to Ensign Drilling Inc..

Based on the final inspection and review of critical dimensions and components, it is our opinion that the equipment is a safe operating unit and may be returned to service within the manufacturer's original ratings and specifications.

This certification is valid for a period of 1000 operating days, as per the recommendations provided by the Canadian Association of Oilwell Drilling Contractors, or until the unit has been damaged either as a result of operation, transportation or handling.

### PERMIT TO PRACTISE

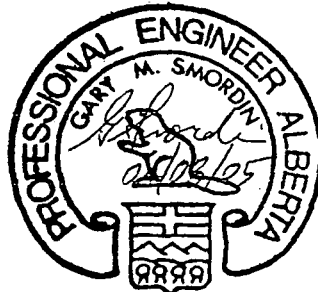
T & T INSPECTION & ENGINEERING LTD.

Signature G. Swardin

Date August 5, 2004

PERMIT NUMBER: P 6501

The Association of Professional Engineers,  
Geologists and Geophysicists of Alberta





CERTIFICATE OF INSPECTION

88 6th Street, Suite 400  
New Westminster, BC V3L 5B3

Phone: (604) 660 - 6254  
Toll Free: 1-866-566-SAFE  
Fax: (604) 660 - 6215  
www.safetyauthority.ca

Owner/Agent Information

Activity Date: December 31, 2004  
Permit #: 32491911

ENSIGN DRILLING INC  
2000 5 STREET  
NISKU AB 97X 3

Contact: ENSIGN DRILLING INC  
Phone:  
Site Information: ENSIGN DRILL 814 FORT ST JOHN, BC

Unit Information

ID: HP100197      Name: A0452230 E-814      Federal: N  
Status: Active      Class: High Pressure Boiler      National Board #: ENSIGN 814  
Frequency: 12 months      CRN: D1345.21  
Capacity: 46 m2      Type: Scotch Dryback  
Manufacturer: Bethlehem Corp  
Serial #: 96-22412      Model: A0452230      Date Mfg: 1996  
Occupancy:      Refrig Group:      Refrig Lbs.:

	<u>MAWT</u>	<u>AWP</u>	<u>MAWP</u>	<u>DIA</u>	<u>LENGTH</u>	<u>VOLUME</u>
Shell:		150 psig	150 psig			
Tube:						

Pressure Relief Devices

Manufacturer	Type	Capacity	Set Pressure
watts	Safety Valve	150 psig	6582 LB/HR

Outstanding Non-Compliances

Code	Code Description
------	------------------

Non-Compliances

Code	Code Description
------	------------------

Safety Officer's Notes

Unit tight under hydro. Keep boiler water Ph above 10.5  
Keep outside drain valves on the two water columns and blowdown line open during cold weather.  
Take water sample for Ph test from the gauge glass drain and not from the instrumentation line.

Inspection Result:

# Certificate of Inspection

ENSIGN DRILLING INC  
2000-5 STREET  
ATTN: PAUL MEADE-CLIFT  
NISKU, AB  
T9E 7X3

PREFERRED RE-INSP. INTERVAL: 1.00 Yr.

YEAR BUILT: 1981

CRN: D1345.2

SERIAL #: 96-2241/2

VOLUME:

HEATING SURFACE: 46.45 M2

SURFACE AREA:

COMPANY CODE: E-814

DESCRIPTION: RIG BOILER

LOCATION: PORTABLE, NISKU

MANUFACTURER: BETHLEHEM CORPORATION

Safety Valves

PART	MAX. AUTHORIZED WORKING PRESSURE	MAX. TEMP	MIN. TEMP	VALVE ID	SETTING	CAPACITY	LOCATION
BOILER	1034 KPA	185 C		SV1	1034 KPA	2992 KG/H ON VESSEL	

**OWNER INSTRUCTIONS/REMARKS:**

OPERATE PRESSURE RELIEF VALVE(S) MANUALLY BY MEANS OF THE LIFTING LEVER EVERY MONTH TO ENSURE CORRECT FUNCTIONING.

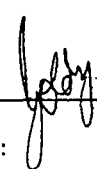
TEST WATER COLUMN AND GAUGE GLASS DAILY.

BLOW DOWN LOW WATER FUEL CUT-OFF WEEKLY TO TEST OPERATION.

MAINTAIN PROPER WATER TREATMENT.

Safety Codes Officer: MATHUR, GOLDY

Signature: \_\_\_\_\_



**REQUIREMENTS OF THE SAFETY CODES ACT AND THE REGULATIONS ISSUED THEREUNDER:**

The owner or person in charge shall report all accidents involving a boiler, pressure vessel or pressure piping system to the district Safety Codes Officer immediately and shall send a full report in writing to the Administrator as required by the Act. No repairs or alterations may be made unless authorized by a Safety Codes Officer.



2301 - 8th STREET  
NISKU, ALBERTA T9E 7Z1  
PH. (780) 955-2210 FAX (780) 955-7504

**SERVICES & SUPPLY LTD.**

*Three Year Re-manufacture*



OILCO CERTIFIES THAT THIS BLOWOUT PREVENTER HAS BEEN RE-MANUFACTURED AND TESTED, IN STRICT ACCORDANCE WITH THE ALBERTA ENERGY AND UTILITIES BOARD; CANADIAN ASSOCIATION OF OILWELL DRILLING CONTRACTORS RECOMMENDED PRACTICE - 6.0 OR 7.0, LATEST VERSION LEVEL IV GUIDELINES; TO STANDARDS MEETING OR EXCEEDING ORIGINAL EQUIPMENT MANUFACTURERS' SPECIFICATIONS; AND/OR AMERICAN PETROLEUM INSTITUTE SPECIFICATIONS.

EQUIPMENT OWNER: ENSIGN DRILLING INC.

DESCRIPTION: 11" 3000 PSI SHAFCO RS SINGLE GATE

WORK ORDER NUMBER: 4003699 O.E.M. SERIAL NUMBER: 10S3-92

WEIGHT: 3,482.5 (lbs.) CUSTOMER SERIAL NUMBER: E222 WO#17020

STUD SIZE: 1 3/8" x 6 5/8" PACKING ELEMENT: \_\_\_\_\_

BOLT SIZE: \_\_\_\_\_ TRIM: NACE #N499

RING GASKET: R53 CLOSING VOLUME: 12.59 (L.) 3.25 (US gal.)

OPENING VOLUME: 10.46 (L.) 2.70 (US gal.)

  
MANAGER, QUALITY ASSURANCE

MARCH 15, 2004

RE-MANUFACTURED DATE

IN ACCORDANCE WITH CERTIFYING PARTY

NOVEMBER 5, 2004

MARVIN G. MISHIO, P.Eng., C.Mfg.T.

IN-SERVICE DATE



# Borza Inspections Ltd.

Mailing Address: Box 86, 52313 RR 232, Sherwood Park, Alberta, Canada T8B 1B7  
Shop Address: 5710 - 17 Street, Edmonton, Alberta, Canada T6P 1S4  
Bus: (780) 944-2857 • Fax: (780) 440-2147  
24 Hour Service

ISO 9003 - #97-598

November 20, 2000

Ensign Drilling Ltd.  
2105 - 8<sup>th</sup> Street  
Nisku, Alberta  
T9E 7Z1

E#222

Attention: Ron Pettapiece

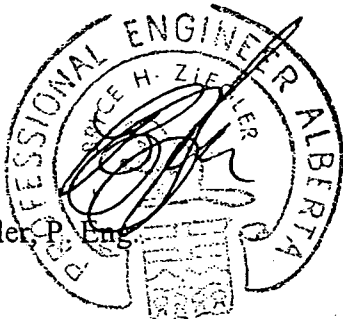
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**Re: Shop service requirement**  
**Equipment:** Shafco 11" - 3000# Single Gate B.O.P.  
**Company No.:** E-222      **Serial No.:** 1053-92  
**Ensign W.O. No.:** 11743  
**BI Field Report No.:** M43530/M44144/M44133/M44527  
**BI Engineering Report No.:** E5459

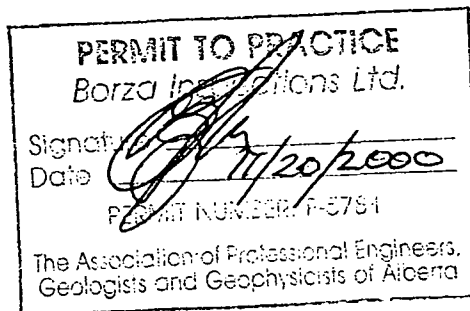
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After review of Ensign W.O. 11743, this equipment meets the service requirements of ERCB IL88-11 (3 year shop servicing) as of November 15, 2000. The material in this equipment was originally certified to meet NACE M1075 requirements on E2801 which is on file with Ensign Resource Group.

Regards,



Bryce Ziegler, P. Eng.



(a)



2301 - 8th STREET  
NISKU, ALBERTA T9E 7Z1  
PH. (780) 955-2210 FAX (780) 955-7504

**SERVICES & SUPPLY LTD.**

*Three Year Re-manufacture*



OILCO CERTIFIES THAT THIS BLOWOUT PREVENTER HAS BEEN RE-MANUFACTURED AND TESTED, IN STRICT ACCORDANCE WITH THE ALBERTA ENERGY AND UTILITIES BOARD; CANADIAN ASSOCIATION OF OILWELL DRILLING CONTRACTORS RECOMMENDED PRACTICE - 6.0 OR 7.0, LATEST VERSION LEVEL IV GUIDELINES; TO STANDARDS MEETING OR EXCEEDING ORIGINAL EQUIPMENT MANUFACTURERS' SPECIFICATIONS; AND/OR AMERICAN PETROLEUM INSTITUTE SPECIFICATIONS.

EQUIPMENT OWNER: ENSIGN DRILLING INC.

DESCRIPTION: 11" 3000 PSI SHAFCO RS SINGLE GATE

WORK ORDER NUMBER: 4003698 O.E.M. SERIAL NUMBER: 10S3-16

WEIGHT: 3,482.5 (lbs.) CUSTOMER SERIAL NUMBER: E220 WO#17017

STUD SIZE: 1 3/8" x 6 5/8" PACKING ELEMENT: \_\_\_\_\_

BOLT SIZE: \_\_\_\_\_ TRIM: NACE #N500

RING GASKET: R53 CLOSING VOLUME: 12.59 (L.) 3.25 (US gal.)

OPENING VOLUME: 10.46 (L.) 2.70 (US gal.)

  
\_\_\_\_\_  
MANAGER, QUALITY ASSURANCE

MARCH 15, 2004  
RE-MANUFACTURED DATE

IN ACCORDANCE WITH CERTIFYING PARTY

NOVEMBER 5, 2004  
IN-SERVICE DATE

MARVIN G. MISHIO, PEng., C.Mfg.T.

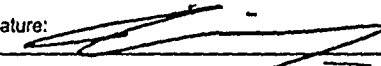
Procedure: IRISNDT NACE TRIM	Job/P.O. #: 3904	IRISNDT #: 136578	Date: FEB. 10 <sup>TH</sup> , 2004
Code: NACE MR0175	Client: OILCO	Location: NISKU, AB	
Item Inspected: WO# 3698 SHAFCO / RS SINGLE / SN 1053-16 / 11" - 3M			

Method: X-RAY FLUORESCENCE EQUIPMENT: NITON	IRISNDT#: 60020	Calibration Date: FEB. 10 <sup>TH</sup> , 2004
HARDNESS EQUIPMENT: KRAUT KRAMER MIC - 10	IRISNDT#: 61021	Calibration Date: FEB. 10 <sup>TH</sup> , 2004
HARDNESS CALIBRATION BLOCK: 188 HB		
Rockwell B <input type="checkbox"/> Rockwell C <input type="checkbox"/> Vickers <input type="checkbox"/> Brinell <input type="checkbox"/> X <input checked="" type="checkbox"/>		

Item	Part Description	IRISNDT NACE Number	Brinell Impression		Brinell Bar Hardness	Hardness Value	Number of Readings	Nickel %				Material Identification	Accept	Reject
			Bar	Material				<1	>1	Precision Level or Time	Number of Readings			
A	DOOR ALIGNMENT PLUGS	AR 471				157	4	X		+30	2	4130/4140	X	
B	DOOR ALIGNMENT PLUGS	AR 472				154	4	X		+30	2	4130/4140	X	

REMARKS:

NOTE: The above items have been accepted or rejected under NACE MR0175 requirements using field hardness measurements and compositional analysis, through the use of the above listed equipment, and are therefore subject to the limitations imposed by these methods.

Unit # 242	Kilometres:	Consumables:	Technician: Print: DUANE LAMASH
In 10:30	Out 11:00	Hrs. 0.5	Signature: 
In	Out	Hrs.	Hits: 2
Personnel: D.L.			Client Representative:

5908 - 96 Street Edmonton, Alberta T6E 3G3 (780) 437-2022 Fax (780) 436-4873	Barrhead Fort McMurray Grande Prairie (780) 674-3018 (780) 743-1536 (780) 532-2283	Lloydminster Cold Lake Red Deer (780) 875-6455 (780) 594-1114 (780) 347-1742	5442 - 56 Avenue S.E. Calgary, Alberta T2C 4M6 Ph. (403) 279-6121 Fax (403) 236-0716
--	---	---	--



SERVICES & SUPPLY LTD.

2301 - 8th STREET  
NISKU, ALBERTA T9E 7Z1  
PH. (780) 955-2210 FAX (780) 955-7504

Three Year Re-manufacture



OILCO CERTIFIES THAT THIS BLOWOUT PREVENTER HAS BEEN RE-MANUFACTURED AND TESTED,  
IN STRICT ACCORDANCE WITH THE ALBERTA ENERGY AND UTILITIES BOARD;  
CANADIAN ASSOCIATION OF OILWELL DRILLING CONTRACTORS RECOMMENDED PRACTICE - 6.0 OR 7.0,  
LATEST VERSION LEVEL IV GUIDELINES; TO STANDARDS MEETING OR EXCEEDING ORIGINAL EQUIPMENT  
MANUFACTURERS' SPECIFICATIONS; AND/OR AMERICAN PETROLEUM INSTITUTE SPECIFICATIONS.

EQUIPMENT OWNER: ENSIGN DRILLING INC.

DESCRIPTION: 11" 3000 PSI HYDRIL GK ANNULAR

WORK ORDER NUMBER: 4003816 O.E.M. SERIAL NUMBER: 14160


WEIGHT: 5,300 (lbs.) CUSTOMER SERIAL NUMBER: E197 WO# 17287

STUD SIZE: 1 3/8" x 6 5/8" PACKING ELEMENT: \_\_\_\_\_

BOLT SIZE: 1 3/8" x 10" TRIM: NACE #N2090

RING GASKET: R53 CLOSING VOLUME: 28.79 (L.) 7.43 (US gal.)

OPENING VOLUME: 21.47 (L.) 5.54 (US gal.)

  
\_\_\_\_\_  
MANAGER, QUALITY ASSURANCE

MARCH 31, 2004  
RE-MANUFACTURED DATE

IN ACCORDANCE WITH CERTIFYING PARTY

NOVEMBER 12, 2004

MARVIN G. MISHIO, P.Eng., C.Mfg.T.

IN-SERVICE DATE





ISO 9003 - #97-598

# Borza Inspections Ltd.

Mailing Address: Box 86, 52313 RR 232, Sherwood Park, Alberta, Canada T8B 1B7

Shop Address: 5710 - 17 Street, Edmonton, Alberta, Canada T6P 1S4

Bus: (780) 944-2857 • Fax: (780) 440-2147

24 Hour Service

## NACE CERTIFICATION

DATE: May 18, 1999

CLIENT: Ensign Drilling Inc.

ATTENTION: Ron Pettapiece

Borza Inspections Engineer File #E3973

Borza Inspections NDT Field Report #: N2090/M34996/M34527

Equipment: (1) Hydril 11" - 3000# GK Annular B.O.P.

Company No. E197

Serial No.: 14160

**R1635**

Material: Low alloy steel

NDT: Magnetic particle and visual inspections were performed on all components according to API 16A 2<sup>nd</sup> Edition. No defects were found.

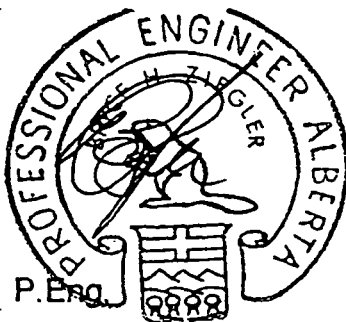
### Chemistry:

### Hardness BHN\*:

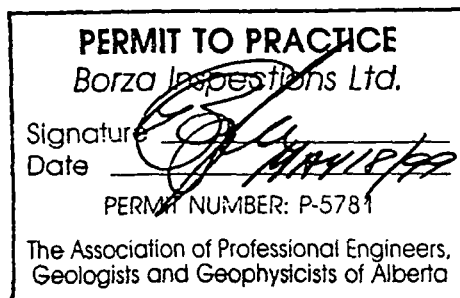
Upper Housing	<1% Ni	178
Lower Housing	<1% Ni	230
Piston	<1% Ni	174

\* Hardness value is average of 2 indications minimum with no 1 greater than 238 BHN.

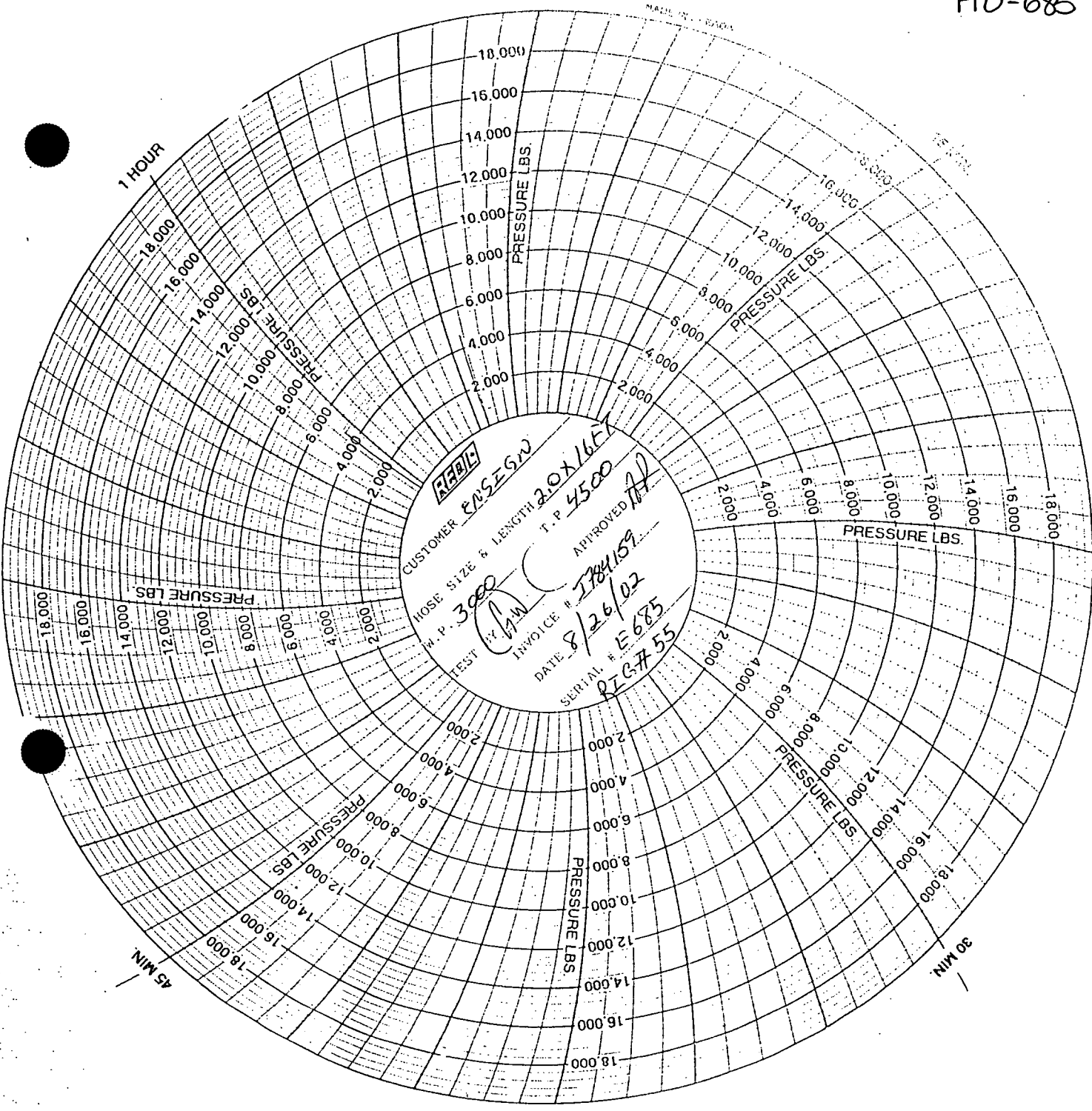
The material in the above equipment complies with NACE standard MR0175-98 and is suitable for sour service. After review of Ensign work order 10327 this equipment meets the service requirements of ERCB IL88-11 (3 year shop servicing) as of May 10, 1999.



Bryce Ziegler, P. Eng.



H0-685



**FABRI-FLOR**  
 CUSTOMER ENSZSN  
 HOSE SIZE & LENGTH 2.0X16FT  
 T.P. 4500  
 W.P. 3000  
 INVOICE # 2784159  
 DATE 8/26/02  
 SERIAL # E685  
 RZG-755  
 APPROVED [Signature]

1 HOUR

30 MIN

45 MIN

PRESSURE LBS

PRESSURE LBS

PRESSURE LBS

PRESSURE LBS

PRESSURE LBS

PRESSURE LBS

PRESSURE LBS

30 MIN

PRESSURE LBS

PRESSURE LBS

18,000

16,000

14,000

12,000

10,000

8,000

6,000

4,000

2,000

PRESSURE LBS

18,000

16,000

14,000

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PRESSURE LBS

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10,000

8,000

6,000

4,000

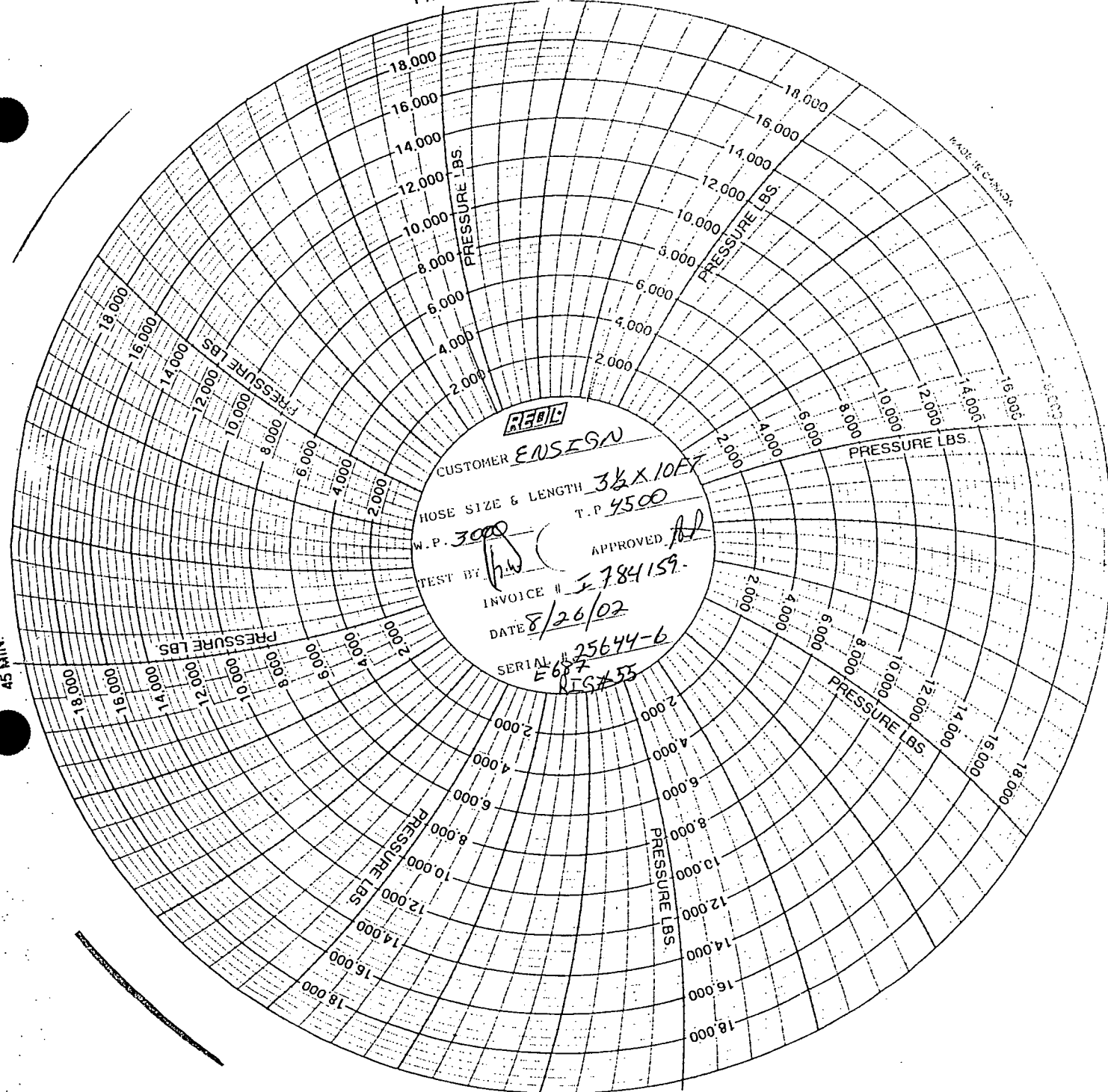
2,000

PRESSURE LBS

HO-687

1 HOUR

MADE IN CANADA



CUSTOMER **ENSIGN**  
 HOSE SIZE & LENGTH **3 1/2 X 10 FT**  
 W.P. **3000** T.P. **4500**  
 TEST BY **[Signature]** APPROVED **[Signature]**  
 INVOICE # **E 784159**  
 DATE **8/26/02**  
 SERIAL # **25644-6**  
**E 687 RIG 55**

45 MIN.

30 MIN.





VA-32002

HI-KALIBRE EQUIPMENT LTD.

9816 - 45 AVE.  
EDMONTON, ALBERTA  
T6E 5C5

PHONE: (780) 435-1111 FAX: (780) 436-5164

MANUFACTURER: HI-KALIBRE EQUIPMENT LTD.

At the time of repair materials used in manufacturing EXCEPT BODY:

Meet or exceed the requirements of the American Petroleum Institute and the National Association of Corrosion Engineers Standard MR-01-75 LATEST EDITION N.A.C.E.

"Material Requirements" Sulfide Stress Cracking Resistant Metallic material for Oilfield Blowout Prevention Equipment, H2S TRIM.

CUSTOMER: ENSIGN DRILLING LTD.

VALVE DESCRIPTION: 4-1/2" LOWER KELLYCOCK - HI-KAL  
10,000 P.S.I. WORKING PRESSURE

SERIAL #: 4150-120-XH  
MANUFACTURING LOT #: 51569  
RIG #: E32002 PI  
SALES ORDER #: 51569  
CUSTOMER PO #: 27598  
OWNER'S SERIAL #:  
DATE OF MANUFACTURE: JUL 14, 1999

VALVE COMPONENTS	PART #	LOT #
4-1/2 HI-KAL KELLYCOCK SEAL KIT	4150-SK	

Hi-Kalibre Equipment

*Glen Rabby*  
Per Glen Rabby, President G/M

V7 301-1

### D-Valves Ltd.

6133 -97 St.

Edmonton, Alberta T6E 3J3

Phone (403) 436-5353 · Fax (403) 436-7653

We certify that all inside blow-out preventers, kellycocks and valves supplied on the work order listed below, are manufactured to meet all requirements in accordance with :

American Petroleum Institute (A.P.I.)

National Association of Corrosion Engineers (NACE) MR-01-75 specifications

Alberta Recommended Practices (A.R.P.)

All valves have been pressure tested and charted.

Customer: Ensign Drilling  
Work Order # 12089  
Serial # D4250U - 156  
E32707

Date : Mar 08/2000  
Size: 6 5/8 Reg LH D-Valve Kellycock, NACE, 2 pce  
Pressure: 10,000 PSI

Part	Number	Material	Part	Number	Material
Body & Sub	D4250	4145 ARP	Ball	D4250-B	17-4 PH
Stem	D4250U-S	Monel	Stem Bushing	D4250U-SB	17-4 PH
Lower Seat	D4250-LS	Bronze	Upper Seat	D4250-US	Bronze
Stop Ring	D4250-SR	4140	Spring		750X Inconel

Authorized Signature: D Chase





### D-Valves Ltd.

6133 -97st.

Edmonton, Alberta T6E 3J3

Phone (403) 436-5353 Fax (403) 436-7653

We certify that all inside blow-out preventers, kellycocks and valves supplied on the work order listed below, are manufactured to meet all requirements in accordance with :

American Petroleum Institute (A.P.I.)

National Association of Corrosion Engineers (NACE) MR-01-75 specifications

Alberta Recommended Practices (A.R.P.)

All valves have been pressure tested and charted.

Customer : Ensign Drilling

Work Order # 19438

Serial # D4000XH-20

E32969

Date : March 23, 2001

Size : 4 1/2 XH D-Valve Kellycock, NACE, 2 pce

Pressure : 10,000 PSI

Part	Number	Material	Part	Number	Material
Body & Sub	D4000XH	4145 ARP	Ball	D3500IF-B	17-4 PH
Stem	D3500IF-S	Monel	Stem Bushing	D3500IF-SB	17-4 PH
Lower Seat	D3500IF-LS	Bronze	Upper Seat	D3500IF-US	Bronze
Stop Ring	D3500IF-SR	4140	Spring		750X Inconel

Authorized Signature : \_\_\_\_\_



VH-260378

### D-Valves Ltd.

6133 -97 Street  
Edmonton, Alberta T6E 3J3  
Phone (780) 436-5353 Fax (780) 438-7906

We certify that all inside blow-out preventers, kellycocks and valves supplied on the work order listed below, are manufactured to meet all requirements in accordance with :

American Petroleum Institute (A.P.I.)  
National Association of Corrosion Engineers (NACE) MR-01-75 specifications  
Alberta Recommended Practices (A.R.P.)

All valves have been pressure tested and charted.

Customer: Ensign Drilling  
Work Order # 31157  
Serial # D4250XH-550  
E260378

Date: February 18, 2003  
Size: 4 1/2 XH D-Valve Kellycock, NACE, 2 pce  
Pressure: 10,000 PSI

Part	Number	Material	Part	Number	Material
Body & Sub	D4250XH	4140	Ball	D4250-B	17-4 PH
Stem	D4250-S	Monel	Stem Bushing	D4250-SB	17-4 PH
Lower Seat	D4250-LS	Bronze	Upper Seat	D4250-US	Bronze
Stop Ring	D4250-SR	4140	Spring		750X Inconel

Authorized Signature: *[Signature]*





VIA-31622



# Borza Inspections Ltd.

Mailing Address: Box 86, 52313 RR 232, Sherwood Park, Alberta, Canada T8B 1B7  
Shop Address: 5710 - 17 Street, Edmonton, Alberta, Canada T6P 1S4  
Bus: (780) 944-2857 • Fax: (780) 440-2147  
24 Hour Service

ISO 9003 - #97-598

## NACE CERTIFICATION

**DATE:** April 15, 1999  
**CLIENT:** A.P.I. Valve Services Ltd./Ensign Drilling Inc.  
**Borza Inspections Engineer File #E3928**  
**Borza Inspections NDT Field Report #: N2071**

**Equipment:** (1) Barton 3 1/8" - 3000# Gate Valve  
Company No. E31622

**Material:** Low alloy steel

	Chemistry:	Hardness BHN*:
Body	<1% Ni	211
Bonnet	<1% Ni	197
Stem	<1% Ni	225
1/2 Gate #1	17-4PHSS	228**
1/2 Gate #2	17-4PHSS	241**
Seat #1	17-4PHSS	219**
Seat #2	17-4PHSS	230**

\* Hardness value is average of 2 indications minimum with no 1 greater than 238 BHN.  
\*\*This material is acceptable at these hardness levels.

The material in the above equipment complies with NACE standard MR0175-98.

Bryce Ziegler, P. Eng.

**PERMIT TO PRACTICE**  
Borza Inspections Ltd.

Signature

Date APRIL 15/99

PERMIT NUMBER: P-5784

The Association of Professional Engineers,  
Geologists and Geophysicists of Alberta





**PACIFIC VALVE SERVICES INC.**

8106 Davies Road, Edmonton, Alberta T6E 4N2  
24 Hr. Tel.: (780) 463-3972 • Fax: (780) 466-0492  
Email: pacvalve@compusmart.ab.ca  
Website: www.pacificvalve.com

VIA-32678

**NACE Certification Inspection Report**

Charged to: ENSIGN DRILLING Item # \_\_\_\_\_  
Date FEBRUARY 3, 2000

P.O.# 42257 Rig # \_\_\_\_\_ Location OUR SHOP

Equipment Description: 2 1/16" 5000# JMP "EE" GATE VALVE

Model# \_\_\_\_\_ Serial # E-32678 98048 Our W.O # 21380

Remarks: Inspect for Sour Service

Tests (BHN) Body: 235-235  
Bonnet: 217-217  
Flange: 182-182  
Flange: 156-156

Material: NEW VALVE - QUALITY CERTIFICATE & MILL TEST REPORT ATTACHED

Nickel Content: body: \_\_\_\_\_ % Engineering: JINHU  
bonnet: \_\_\_\_\_ % (Report Attached)

Trim: OEM NACE OR EQUIVALENT BY PART OR HEAT NUMBER

Valve Conforms to NACE MR-01-75 at time of inspection.

**Test Procedure**

Pin Type (BHN) Hardness Tester. Nickel content checked by chemical analysis.  
Trim: Identified by P/N or Mill Certificate on replacement Parts.

Reviewed By: MICHAEL E. GATES

Performed By: JINHU

\_\_\_\_\_  
Q.A. MANAGER



# PACIFIC VALVE SERVICES INC.

8106 Davies Road, Edmonton, Alberta T6E 4N2  
24 Hr. Tel.: (780) 463-3972 • Fax: (780) 466-0492  
Email: pacvalve@compusmart.ab.ca  
Website: www.pacificvalve.com

VA-32679

## NACE Certification Inspection Report

Item # \_\_\_\_\_  
Charged to: ENSIGN DRILLING Date FEBRUARY 3, 2000

P.O.# 42257 Rig # \_\_\_\_\_ Location OUR SHOP

Equipment Description: 2 1/16" 5000# JMP "EE" GATE VALVE

Model# \_\_\_\_\_ Serial # E-32679 98066 Our W.O # 21380

Remarks: Inspect for Sour Service

Tests (BHN) Body: 235-235  
Bonnet: 217-217  
Flange: 156-156  
Flange: 142-142

Material: NEW VALVE - QUALITY CERTIFICATE & MILL TEST REPORT ATTACHED

Nickel Content: body: \_\_\_\_\_ % Engineering: JINHU  
bonnet: \_\_\_\_\_ % (Report Attached)

Trim: OEM NACE OR EQUIVALENT BY PART OR HEAT NUMBER

Valve Conforms to NACE MR-01-75 at time of inspection.

### Test Procedure

Pin Type (BHN) Hardness Tester. Nickel content checked by chemical analysis.  
Trim: Identified by P/N or Mill Certificate on replacement Parts.

Reviewed By: MICHAEL E. GATES Performed By: JINHU

Q.A. MANAGER





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Email: pacvalve@compusmart.ab.ca  
Website: www.pacificvalve.com

VA - 32680

## NACE Certification Inspection Report

Charged to: ENSIGN DRILLING Item # \_\_\_\_\_ Date FEBRUARY 3, 2000

P.O.# 42257 Rig # \_\_\_\_\_ Location OUR SHOP

Equipment Description: 2 1/16" 5000# JMP "EE" GATE VALVE

Model# \_\_\_\_\_ Serial # E-32680 981012 Our W.O # 21380

Remarks: Inspect for Sour Service

Tests (BHN)	Body:	<u>222-222</u>
	Bonnet:	<u>234-234</u>
	Flange:	<u>142-142</u>
	Flange:	<u>142-142</u>

Material: NEW VALVE - QUALITY CERTIFICATE & MILL TEST REPORT ATTACHED

Nickel Content:	body: _____ %	Engineering: <u>JINHU</u>
	bonnet: _____ %	(Report Attached)

Trim: OEM NACE OR EQUIVALENT BY PART OR HEAT NUMBER

Valve Conforms to NACE MR-01-75 at time of inspection.

### Test Procedure

Pin Type (BHN) Hardness Tester. Nickel content checked by chemical analysis.

Trim: Identified by P/N or Mill Certificate on replacement Parts.

Reviewed By: MICHAEL E. GATES Performed By: JINHU

\_\_\_\_\_  
Q.A. MANAGER



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Website: www.pacificvalve.com

VA-32681

**NACE Certification Inspection Report**

Charged to: ENSIGN DRILLING Item # \_\_\_\_\_ Date FEBRUARY 3, 2000

P.O.# 42257 Rig # \_\_\_\_\_ Location OUR SHOP

Equipment Description: 2 1/16" 5000# JMP "EE" GATE VALVE

Model# \_\_\_\_\_ Serial # E-32681 981010 Our W.O # 21380

Remarks: Inspect for Sour Service

Tests (BHN) Body: 222-222  
Bonnet: 225-225  
Flange: 156-156  
Flange: 156-156

Material: NEW VALVE - QUALITY CERTIFICATE & MILL TEST REPORT ATTACHED

Nickel Content: body: \_\_\_\_\_ % Engineering: JINHU  
bonnet: \_\_\_\_\_ % (Report Attached)

Trim: OEM NACE OR EQUIVALENT BY PART OR HEAT NUMBER

Valve Conforms to NACE MR-01-75 at time of inspection.

**Test Procedure**

Pin Type (BHN) Hardness Tester. Nickel content checked by chemical analysis.  
Trim: Identified by P/N or Mill Certificate on replacement Parts.

Reviewed By: MICHAEL E. GATES Performed By: JINHU

\_\_\_\_\_  
Q.A. MANAGER



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 Website: www.pacificvalve.com

VA-32682

**NACE Certification Inspection Report**

Charged to: ENSIGN DRILLING Item # \_\_\_\_\_  
 Date FEBRUARY 3, 2000

P.O.# 42257 Rig # \_\_\_\_\_ Location OUR SHOP

Equipment Description: 2 1/16" 5000# JMP "EE" GATE VALVE

Model# \_\_\_\_\_ Serial # E-32682 981000 Our W.O # 21380

Remarks: Inspect for Sour Service

Tests (BHN) Body: 222-222  
 Bonnet: 234-234  
 Flange: 156-156  
 Flange: 156-156

Material: NEW VALVE - QUALITY CERTIFICATE & MILL TEST REPORT ATTACHED

Nickel Content: body: \_\_\_\_\_ % Engineering: JINHU  
 bonnet: \_\_\_\_\_ % (Report Attached)

Trim: OEM NACE OR EQUIVALENT BY PART OR HEAT NUMBER

Valve Conforms to NACE MR-01-75 at time of inspection.

Test Procedure  
 Pin Type (BHN) Hardness Tester. Nickel content checked by chemical analysis.  
 Trim: Identified by P/N or Mill Certificate on replacement Parts.

Reviewed By: MICHAEL E. GATES Performed By: JINHU  
 \_\_\_\_\_  
 Q.A. MANAGER



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Website: www.pacificvalve.com

VA-32683

**NACE Certification Inspection Report**

Charged to: ENSIGN DRILLING Item # \_\_\_\_\_  
Date FEBRUARY 3, 2000

P.O.# 42257 Rig # \_\_\_\_\_ Location OUR SHOP

Equipment Description: 2 1/16" 5000# JMP "EE" GATE VALVE

Model# \_\_\_\_\_ Serial # E-32683 981003 Our W.O # 21380

Remarks: Inspect for Sour Service

Tests (BHN) Body: 222-222  
Bonnet: 234-234  
Flange: 142-142  
Flange: 156-156


Material: NEW VALVE - QUALITY CERTIFICATE & MILL TEST REPORT ATTACHED

Nickel Content: body: \_\_\_\_\_ % Engineering: JINHU  
bonnet: \_\_\_\_\_ % (Report Attached)

Trim: OEM NACE OR EQUIVALENT BY PART OR HEAT NUMBER

Valve Conforms to NACE MR-01-75 at time of inspection.

Test Procedure  
Pin Type (BHN) Hardness Tester. Nickel content checked by chemical analysis.  
Trim: Identified by P/N or Mill Certificate on replacement Parts.

Reviewed By: MICHAEL E. GATES Performed By: JINHU  
  
Q.A. MANAGER



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VA-32684

**NACE Certification Inspection Report**

Charged to: ENSIGN DRILLING Item # \_\_\_\_\_ Date FEBRUARY 3, 2000

P.O.# 42257 Rig # \_\_\_\_\_ Location OUR SHOP

Equipment Description: 2 1/16" 5000# JMP "EE" GATE VALVE

Model# \_\_\_\_\_ Serial # E-32684 981001 Our W.O # 21380

Remarks: Inspect for Sour Service

Tests (BHN) Body: 222-222  
Bonnet: 225-225  
Flange: 182-182  
Flange: 156-156

Material: NEW VALVE - QUALITY CERTIFICATE & MILL TEST REPORT ATTACHED

Nickel Content: body: \_\_\_\_\_ % Engineering: JINHU  
bonnet: \_\_\_\_\_ % (Report Attached)

Trim: OEM NACE OR EQUIVALENT BY PART OR HEAT NUMBER

Valve Conforms to NACE MR-01-75 at time of inspection.

**Test Procedure**

Pin Type (BHN) Hardness Tester. Nickel content checked by chemical analysis.

Trim: Identified by P/N or Mill Certificate on replacement Parts.

Reviewed By: MICHAEL E. GATES Performed By: JINHU

\_\_\_\_\_  
Q.A. MANAGER

**Final Well Report**

**Devon Canada Corporation**

**Devon Eagle Plains K-58**

**Grid: 66 10'N  
136° 45' W**

**Yukon License: # 1120**

**DATE: June 09, 2005  
Prepared by David Quinn P. Eng.**

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*Appendices may be used to give details on the subjects below.*

- Locality Map**
- Well Summary**
- Time Distribution**
- Deviation and Drift Records**
- Bit Record**
- Stick Diagram, "Pre-Drilled"**



# **I. INTRODUCTION**

## **1.1 Summary**

Devon Canada Corporation drilled a 1278 mMD exploratory well at location designated as Devon Eagle Plains K-58. The well fulfilled a work commitment to the Yukon Government that was originally made by Anderson Exploration Ltd. (predecessor company) in 1999. The well was spudded on February 22<sup>th</sup>, 2005 and finished drilling operations on April 3<sup>rd</sup>, 2005. The well was found to be non-commercial hydrocarbon bearing and was abandoned.

The K-58 well is located approximately 33.5 km southwest of the Hamlet of Eagle plains, YT on the Dempster Highway and southeast of the highway by 10 km.

Devon Canada Canada was the operator company with no other working interest owners. Ensign Drilling Inc. was contracted for the drilling of this project and taken from Devon's contracted fleet for the 2005 winter program. The rig was moved from its last location in the Tommy Lakes region of NE British Columbia to Eagle Plains. The rig is rated as a 2600 m , double with 520 KW drawworks powered by 600 kw diesel prime movers and two triplex pumps, 560 & 410 KW.

The primary objective of this well was to drill and test for the potential gas reserves in the Chance sands and secondary objectives in the Parkin, Jungle Creek, Canoe formations as indicated on a 2-D seismically-identified structural high.

Construction of the drilling location started January 27, 2005. The access road was built along an existing seismic line. Water was hauled 50 km from the Eagle River and the lease and access road was essentially frozen in with marginal ground disturbance. Extremely cold weather during the construction phase (-40°C), created difficulty saturating the snow cover prior to freezing which caused some water run-off and consequently a higher volume of water consumption occurred.

Ensign Rig #55 was broken down to legal widths / weight loads for transport to the Yukon, February 8 through 12, 2005. The 2200 km move to location commenced February 13<sup>th</sup> with all rig components at location by February 17, 2005. The well was spudded February 22, 2005 after receiving well licence #1120 from the Yukon Energy Mines and Resources.

The well was drilled to 1278m by March 28, 2005. The total drilled depth was short of the original prognosis. Due to spring break up, continued drilling could have jeopardized the removal of the rig from the location. Although the programmed total depth was not achieved the primary zones of interest were exposed.

Two logging runs were performed by Schlumberger evaluating the well from total depth to surface casing, both porosity and resistivity logs were obtained.

A total of five closed chamber drill stem tests were conducted on the zones designated as Canoe sand (S-1), S3A-1, S3A-2, S3A-3 and the Hart River (S3B). All tests failed to yield commercial levels of hydrocarbons.

The well was abandoned with the placement of cement plugs. Casing bowl removed and casing stub cut below ground level.

1.2 Locality Map: See Appendices

## II. GENERAL DATA

1. Well Name:.....Devon Eagle Plains k-58  
Authority to Drill a Well No.: ..... 1120  
Exploration Agreement :..... Eagle Plains  
Location Unit: .....K  
  
Section: ..... 58  
Grid Area:.....66°10' N, 136°45' W  
Classification: ..... Exploratory
2. Well Location: .....  
Coordinates: Latitude: 66°07'34.8" N (UTM 7335136.08m N)  
(NAD 27) Longitude: 136°55'27.6" W (UTM 413100.12m E)
3. Unique Well Identifier: .....300K586610136450
4. Operator: ..... Devon Canada Corporation  
..... 2000, 400 – 3<sup>rd</sup> Avenue S.W.  
..... Calgary, AB  
..... T2P 4H2
5. Contractor: ..... Ensign Drilling Inc.  
..... Suite 900, 400 – 5<sup>th</sup> Avenue SW  
..... Calgary, Alberta  
..... T2P 0L6
6. Drilling Unit: ..... Ensign Drilling Partnership, Rig # 55  
..... Diesel Mechanical, Land Rig  
..... Drawworks Superior 700
7. Position Keeping: ..... Not Applicable, Land Based Rig
8. Access Support: .. Construction of Ice Pad Lease  
..... January 27 – mid February, 2005
9. Drilling Unit Performance: ..... Rated Depth Capacity, 2600 m

10. Difficulties and Delays: .....

Lost Circulation

The surface hole (311m) was drilled with a diverter system to 95m encountering and under pressure Parkin Sand member. The diverter system was employed in the event that the Parkin Sand was overpressured.

Loss of fluid circulation occurred through the interval 95 to 118 meters. A total of 5 plugs were placed to isolate the zone.

Deterioration of the Pad Location

The original plan called for the use of an insulated conductor barrel to be set by rathole rig prior to moving onto the location. However, the limitation of the equipment employed by the Inuvik based contractor precluded the use of the larger size insulated conductor barrel. The decision to employ a conventional barrel was based on the belief that the drilling time would be minimal for this well.

After surface casing was set and drilling to 527m, the ice pad under the rig adjacent to the cribbing had melted / evaporated. This occurred in spite of Devon's no rig washing policy and heat deflection (away from the ground) from the BOP heaters.

The pad had melted under the rig mats and threatened to melt under the rig substructure beams making the rig unstable.

Devon elected to fill the cavity by spray foam insulation provided by a contractor from Inuvik. Once this was done no additional pad deterioration occurred.

Deviation Control

The wellbore built out 3° deviation on surface hole. Once the main hole was drilled to 424 mKB, the deviation increased to 4.25°. Drilling continued to 527mKB in a controlled fashion, decreasing weight and increasing rotary speed. A low speed high torque motor with MWD equipment was employed to finish the well. The inclination angle was allowed to build to 6° at total depth.

11. Total Well Cost: .....Field Estimate: \$ 8.5 MM CDN  
(includes construction, drilling, evaluation and reclamation)

12. Deviated Wells Require Bottom Hole Co-ordinates:

Bottom hole location from well center.

North: ..... 35.05 meters  
East: ..... 36.44 meters  
Azimuth ..... 48.98 degrees

### III. SUMMARY OF DRILLING AND RELATED OPERATIONS

1. Elevations:

Ground: ..... 599.76 (m above sea level)  
KB: ..... 604.76 (m above sea level)  
KB To Casing Flange:..... Not Applicable (KB to CF)

2. Total Depth:

FTD: ..... 1278.0 mKB  
TVD: ..... 1276.0 mKB

3. Date and Hour Spudded:.....2005/02/22, 2145 hrs

4. Date Drilling Completed:.....2005/03/28  
(Rig initiates completion activity)

5. Date of Drilling Rig Release:.....2005/04/03, 2400 hrs.

6. Well status: ..... Wellbore Abandoned

7. Hole Sizes and Depths:

Conductor Hole:                   406 mm to ..... 20 mKB  
Surface:                            311.2 mm to ..... 362 mKB  
Main Hole:                         222.2 mm to ..... 1278 m KB

8. Casing and Cementing Record:

See DFW (Daily Well Reports) ..... for detailed reports:

Conductor:                       762 mm to . ..... 20 mKB  
Sanjel cementing company

Surface Casing:                 244.5 mm to ..... 360.5 mKB  
244.5 mm, 53.58 kg/m, J-55, Rge 3, LT&C at 360.5 m  
Cemented with: Lead 5.8 m<sup>3</sup> (7.7 t) Artic cement, 1885 kg/m<sup>3</sup>  
Tail: 13.6 m<sup>3</sup> (15.5 tonne) Expandomix 1770 kg/m<sup>3</sup>

Production Casing; Not applicable, wellbore abandoned

Wellhead:

Casing Bowl Size: CWC-SLIPLOC 279mm, 21MPa x 244 mm

Wellhead Make: Vetco Gray

Status: Casing Bowl removed

9. Sidetracked Hole: Not Applicable

11. Drilling Fluid:

Conductor Hole: Drilled Dry with Conductor Rig

Surface Hole: Gel Chemical system

Properties: Viscosity: 50 sec/L  
Density: 1170 kg/m<sup>3</sup>  
PH: 11  
Water loss: -  
Solids: 5 – 10 %  
Gels: 5 / 10  
Filter Cake: -  
PV / YP: 15 / 6

Main: Gel chemical system

Properties: Viscosity: 60 – 70 sec/L  
Density: 120 - 1300 kg/m<sup>3</sup>  
PH: 10 - 11  
Water loss: 6 – 7.5 ml  
Solids: 7 to 11 %  
Gels: 3 / 6  
Filter Cake: 1 mm  
PV / YP: 36 / 10

12. Fishing Operations:

The fishing operations occurred on this well. The drill collars failed at 486 and 527 mKB. The fishes were recovered on single runs with minimal time delays. Devon contracted Baker Oil Tools to provide a fishing package on site due to the remoteness of the well. A complete replacement drill collar string was bought from Edmonton and the well was drilled without further incident.

13. Time Distribution:..... See Appendices

14. Deviation Surveys: See Appendices

15. Well Kicks and Well Control Operations: .....Not Applicable

16. Formation Leak Off Tests:

Depth:	365 m
Fluid Density:	1150 kg/m <sup>3</sup>
Applied Pressure:	2,500 kPa
Hydrostatic Press.	4118 kPa
Casing Setting Depth:	362 mKB
Leak-off test	18.3 kPa /m

17. Drill Stem Test Summary:

DST # 1, Closed Chamber Test		
Interval:	1193.0 to 1203.0 mKB	
Formation:	S-1, Canoe sand	
IHP	15,561	kPa
PFI	508	kPa
PFF	518	kPa
ISI	10,306	kPa
2 <sup>nd</sup> FI	551	kPa
2 <sup>nd</sup> FF	582	kPa
FSI	9564	kPa
FHP	15558	kPa

Recovery; See DST # 4



**DST # 2, Closed Chamber Test, Re-set**

**Interval:** 1041.0 to 1051.0 mKB

**Formation:** S3A-1 sand

**IHP** 13,616 kPa

**PFI** 807 kPa

**PFF** 959 kPa

**ISI** 2,533 kPa

**2<sup>nd</sup>FI** 1,033 kPa

**2<sup>nd</sup>FF** 1,304 kPa

**FSI** 1,956 kPa

**FHP** 13,575 kPa

**Recovery; See DST # 4**

**DST # 3, Closed Chamber Test, Re-set**

**Interval:** 997.0 to 1007.0 mKB

**Formation:** S3A-2 sand

**IHP** 12,824 kPa

**PFI** 1,808 kPa

**PFF** 2,350 kPa

**ISI** 8,865 kPa

**2<sup>nd</sup>FI** 2,488 kPa

**2<sup>nd</sup>FF** 3,450 kPa

**FSI** 8,766 kPa

**FHP** 12,861 kPa

**Recovery; See DST # 4**

**DST # 4, Closed Chamber Test, Re-set**

**Interval:** 985.0 to 995.0 mKB

**Formation:** S3A-3 sand

**IHP** 12,860 kPa

**PFI** 5,295 kPa

**PFF** 6,174 kPa

**ISI** 8,893 kPa

**2<sup>nd</sup>FI** 6,552 kPa

**2<sup>nd</sup>FF** 8,838 kPa

**FSI** 8,893 kPa

**FHP** 12,832 kPa

**Recovery; tests 1 – 4 combined, 815 m of “gasified brackish water with mud on top”, field salinity 7000.**

DST # 5, Closed Chamber Test

Interval:	427.0 to 453.0	mKB
Formation:	S3B,Hart River	sand
IHP	5,730	kPa
PFI	1,031	kPa
PFF	1,482	kPa
ISI	3,131	kPa
2 <sup>nd</sup> FI	1,623	kPa
2 <sup>nd</sup> FF	1,981	kPa
FSI	2,474	kPa
FHP	6,644	kPa

Recovery; 130.0 m of "slightly gasified drilling fluid", field salinity 3000

18. Abandonment Plugs: A total of seven plus were set in the wellbore to abandoned the well.

Plug # 1

Interval (KB):	1278 to 1068
Cement Type:	Class G, 0:1:0, 0.3% CFL-3, 0.5% SPC-2, 1900 kg/m <sup>3</sup>
Slurry Volume:	6 m <sup>3</sup>
Tonnes:	7.8

Plug # 2

Interval (KB):	1038 to 828
Cement Type:	Class G, 0:1:0, 0.3% CFL-3, 0.5% SPC-2, 1900 kg/m <sup>3</sup>
Slurry Volume:	6 m <sup>3</sup>
Tonnes:	7.8

Plug # 3

Interval (KB):	796 to 654
Cement Type:	Class G, 0:1:0, 0.3% CFL-3, 0.5% SPC-2, 1900 kg/m <sup>3</sup>
Slurry Volume:	6 m <sup>3</sup>
Tonnes:	7.8

Plug # 4

Interval (KB):	625 to 475
Cement Type:	Class G, 1:1:2, 0.5% CFR, 1646 kg/m <sup>3</sup>
Slurry Volume:	6.7 m <sup>3</sup>
Tonnes:	7.0

Plug # 5  
Interval (KB): 464 to 398  
Cement Type: Class G, 1:1:2, 0.5% CFR, 1646 kg/m<sup>3</sup>  
Slurry Volume: 6.7 m<sup>3</sup>  
Tonnes: 7.0

Plug # 6  
Interval (KB): 398 to 175  
Cement Type: Expando mix, 3% LCCI, 1646 kg/m<sup>3</sup>  
Slurry Volume: 11.44 m<sup>3</sup>  
Tonnes: 12.7

Plug # 7  
Interval (KB): 170 to Surface  
Cement Type: Glacial 0.3% CFL-3, 0.5% SPC-2  
Slurry Volume: 6 m<sup>3</sup>  
Tonnes: 7.8

Casing stub dug down 1.5 m, cut and capped with welded plate.

19. Completion Record: No completion took place, wellbore was abandoned.

## **GEOLOGIC INFORMATION**

**Geological Summary: The two primary zones are discussed**

### **PRIMARY ZONE:**

#### **CHANCE SAND 998.0 m MD (-393.7 m SS)**

The Chance Sand is the porous section within the S3A sand of the Hart River Formation. The S3A sand top is at 976m, -371m subsea and the base was at 1034m, as described from samples. The S3A is light grey to salt and pepper with a grain size of very fine to upper coarse. In the low porosity sections, the coarse grained component is missing. The grains are poorly sorted and subrounded to rounded. The tight sand sections are mainly 60% quartz grains, 10% dark minerals and 30% calcite cement, but the Chance sand and other porosity zones are 75% quartz, 15% dark minerals and 10% calcite cement. Through the S3A sand there is minor amounts of a grey chert. In the Chance sand, rare light brown oil staining was seen and 3% to 9% intergranular porosity. A yellow brown fluorescence and weak white massive oil cut was one of the better shows. The rest are poor shows mainly seen as spotted yellow brown fluorescence and white halo cut. There was a slight gas response above the background readings in the sand for the Chance sand porosity section.

**CONCLUSION:** The Chance sand shows some economic potential.

### **SECONDARY ZONE:**

#### **PARKIN SAND 92.0 m MD (512.3 m SS)**

The Parkin Sand is light brown to light grey in colour with minor red brown colouration. The sand is composed of 50% quartz and grains, 25% chert pebbles, 10% other dark minerals, 15% calcite cement and iron stained clay matrix. The grains are fine to coarse in size, poorly sorted, and subangular to subrounded. In some of the samples, there is a conglomerate portion, where the sand grades to a pebble conglomerate. Porosity ranged from 6% to 12% intergranular porosity which is controlled by the sand since the conglomerate is matrix supported. No oil shows were observed and no gas readings beyond the background were seen. The Parkin Sand was a lost circulation zone where five cement plugs had to set. Sample quality for this zone was poor due to drilling cement fragments and the lost circulation of material recovered. Also, the 100m, 110m and 115m samples are missing due to drilling ahead without returns. There was no gas date where there were no gas returns.

**CONCLUSION:** The Parkin sand shows no economic potential.

**Formation tops**

<u>FORMATION</u>	<u>PROGNOSED(m)</u>		<u>SAMPLE(m)</u>			<u>LOG TOPS(m)</u>		
	<u>MD</u>	<u>TVD</u>	<u>MD</u>	<u>TVD</u>	<u>SS</u>	<u>MD</u>	<u>TVD</u>	<u>SS</u>
Fish Branch		0.0		19.0	585.3		19.5	584.8
Parkin Shale	1.3	1.8		52.5	551.8		48.0	556.3
Parkin Sand	20.3	20.8		92.0	512.3		95.0	509.3
Whitestone	50.3	50.8		118.0	486.3		116.7	487.6
Jungle Creek SS	220.3	220.8		229.0	375.3		231.2	373.1
Blackie	252.3	252.8		259.5	344.8		258.7	345.6
Hart River	388.3	388.8		437.0	167.3		441.2	163.1
S3A	763.3	763.8		882.0	-277.2		883.6	-279.3
Chance	875.3	875.8		998.0	-393.2		998.0	-393.7
S1				1183.5	-579.2		1183.3	-579.0
Canoe	1087.3	1087.8						
Ford Lake	1324.3	1324.8						
TD, undefined	1374.3	1374.8		1278.0	-673.2		1278.0	-673.7

## **WELL EVALUATION**

### **Coring Record**

No cores were cut in this well.

### **Logging Program**

Logging company: Schlumberger.

Logs run:

Runs #1 and #2; March 28, 2005

Platform Express: Compensated Neutron Dual Lithology Density Log

Platform Express: Array Induction – RXO Log

Platform Express: Micro – Resistivity Log

Platform Express: Resistivity – Porosity (half scale log)

High Resolution Laterlog Array

Dipole Shear Sonic Image Log

Cement Volume Log

Gas detection log was run from surface to TD.

No VSP's were carried out on this well.

## **V. ENVIRONMENTAL WELL ANALYSIS**

Environmental Details will be addressed in a separate report.

**VI. APPENDICES TO FINAL WELL REPORT**

**Locality Map**

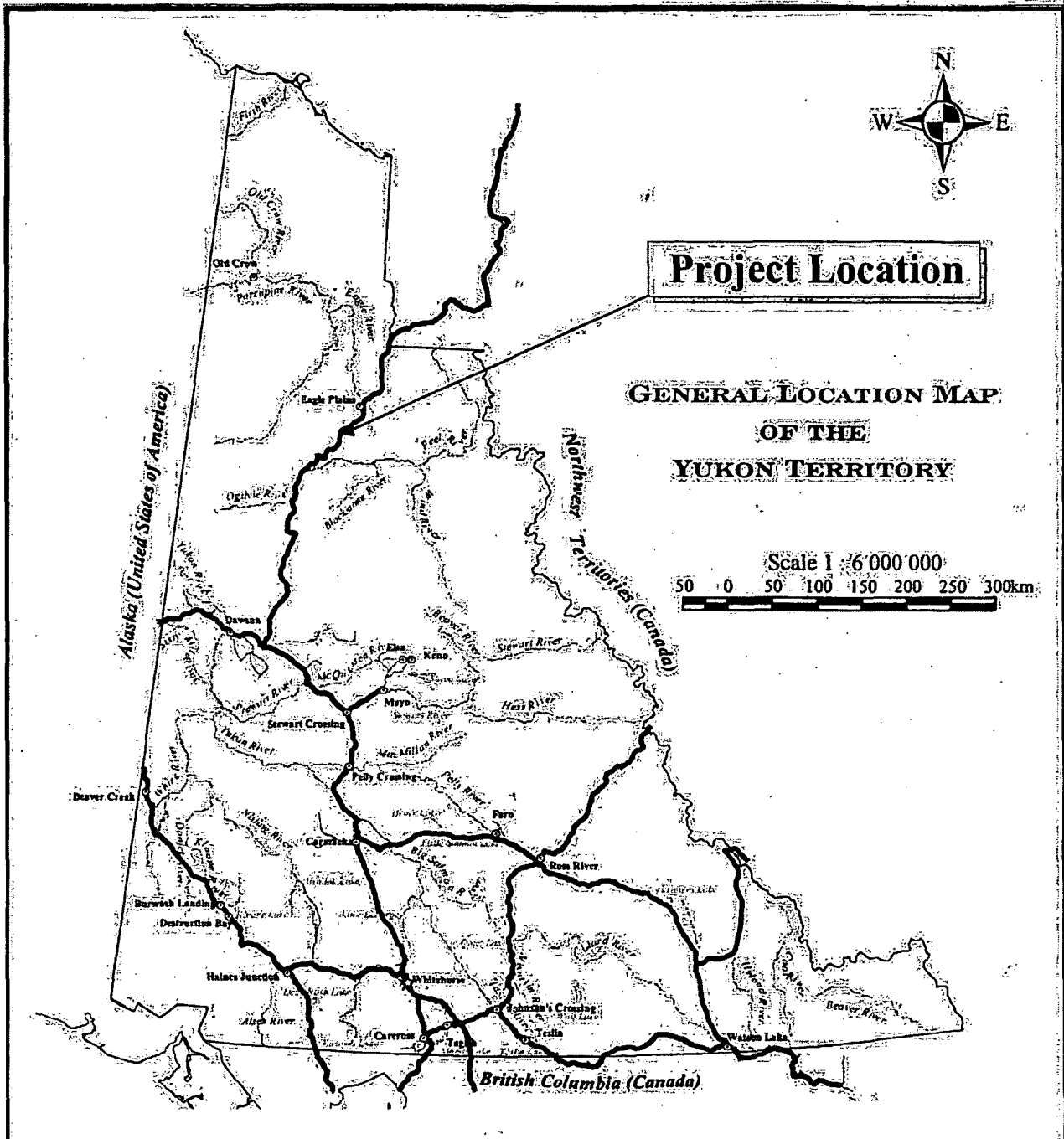
**Well Summary**

**Time Distribution**

**Deviation and Drift Records**

**Bit Record**

**Stick Diagram, "pre-drilled"**



**Eagle Plains  
2004 - 2005  
Drill Program**

Drawn By: HD	Figure 1
Checked By: DDC	Date: 2004/08/10
Our File D:\Project\AI\Projects\DEV-04-02\gismad\Fig 1.mxd	



## WELL SUMMARY AND FORMATION EVALUATIONS

### DEVON EAGLE PLAINS 300K586610136450

The Devon Eagle Plains K58 is a wildcat exploration well in the Yukon Territory that was drilled to evaluate the potential for future development of the area. The well was spudded on February 22, 2005 at 21:45 hours and drilling was completed, March 28, 2005 at 12:15 hours. The target zones for this well are the Parkin Sand (secondary) and Hart River (secondary) with the Chance sand (primary). The surface hole was drilled with 311mm bits to a depth of 362m and 244.5mm casing was then run. The main hole was drilled using 222mm tri-cone bits to a total depth of 1278m.

At spud, the problem with Chimo EDR communicating with Continental Labs mudlogger was corrected. The hole depth recorder would not function from surface to 53m depth. Chimo was able to correct the problem remotely. On February 24, there was a Chimo component failure and again drilling continued without hole depth data. Both times, the crews marked meters on Kelly and recorded the drilling times manually. The Chimo drill recorder was repaired at 140m.

On surface hole, circulation was lost at 95m, and multiple lost circulation pills could not stop the volume losses. Therefore, the well was drilled ahead blind without returns to 100m to get through the lost circulation zone and the crews ran cement plugs. Fluid losses continued after the first plug, so a second cement plug was set. After drilling out the cement plugs, the rig was able to drill ahead to 106m with partial returns so the 105m sample was caught. At the connection at 106.3m, all circulation was lost while working the pipe and drilling continued ahead blind to 115m where another cement plug was run to seal off the Parkin Sand. After drilling out plug #3, drilling proceeded to 142m where another lost circulation zone was penetrated. While drilling with partial returns to about 136m, the crews caught samples from 115m to 135m. Due to the continued loss of circulation at 136m, the fourth cement plug was required. On the trip out to run plug #4, the hole was tight and when running in with open ended drill pipe, the well bridged off at 28m. Crews attempted to wash past the bridge with an open ended drill string but failed. Reaming operations were concluded as a result of fluid losses at the Parkin sandstone. An open ended assembly was run to bottom and plugs 4 and 5 were set. Drilling resumed without incident and the surface hole was drilled to 362m where surface casing was set. Surface hole drilling was completed on March 3, 2005 at 9:15 hours.

Drill out of surface casing shoe occurred at 21:30 hours on March 6, 2005. The main hole was drilled using 222mm bits. While drilling the main hole, the drill string parted at 486.7m. When tripped out, it was found that it had parted in the drill collars. Fishing for the rest of the collars began using an overshot tool and it was able to capture the fish on the first attempt. The drill string parted a second time at 527.2m, also as a result of the collars twisting off. The second fish was four collars and the bit. The second fish was recovered on the first attempt. After the second fish was recovered, it was decided that all the heavy weight drill pipe and drill collars would be inspected before drilling continued. One joint of heavy weight drill pipe, four drill collars and the jars failed the inspection, therefore drilling was placed on hold until replacements arrived. Also, it was decided that Omni directional services would be used to control the deviation problem. When the directional tools and new collars arrived they were made up and the rig waited on orders to drill ahead. The jars arrived later that same day, and a trip was done to put them in the drill string. While making up the directional tools, a spray foam insulation unit came out and insulated the cellar to stop the permafrost collapse in the substructure, it was also injected under the #1 pump.

The next drilling delay was for repairs to the shaker including some time spent waiting for parts. The weld on the first repair did not last. The first breakdown happened at 734m and the second at 745m where drilling was suspended until parts arrived and were installed. During both breakdowns, the rig could not circulate so the drill string was tripped into the surface casing until the shaker was fixed.

On March 24, 2005, the Chimo pit volume and return flow failed and about two hours were needed to repair the system. At 1102.5m, a survey was taken and an unexpected inclination was recorded. The well had increased in deviation while rotating from about 1000m, so two slides were done to correct the deviation. When the survey below the first slide displayed an increase in deviation when a decrease was expected, a trip was done to determine whether there was a problem with the directional tools. No problems were noted.

Drilling continued with two more bit trips. On the afternoon of Monday, March 28, 2005, Devon decided that drilling would end and drilling was halted at 1278.0m. After a wiper trip, the drill string was tripped out to run wireline logs with Schlumberger. The logging program was four runs. Run #1 was Schlumberger's PEX-LDT tool, the data was transmitted to Calgary during run #2 which was, HRLA-DSI tools. On March 29, 2005, while finishing logging run #2, Devon was to select points for the sidewall coring on run #3. The sidewall coring program and FMI log were cancelled. From the logging information and geological samples, Devon decided that some drill stem tests would be run. The run was eventually abandoned.

Samples were not caught due to lack of returns while drilling ahead blind in lost circulation zones at 100m, 110m, 115m & 140m on surface hole. Samples were collected below the conductor barrel at 20.0 meters to total depth for Devon Canada Ltd. and the Yukon government. A Continental Labs Ltd. gas chromatograph was used from 14m to Total Depth.



**Time Distribution Summary**

Legal Well Name: DEVON EAGLE PLAINS K-58  
 Common Well Name: DEVON EAGLE PLAINS K-58  
 Event Name: ORIG DRILLING Start: 02/08/2005 Spud Date: 02/02/2005  
 Contractor Name: ENSIGN DRILLING Rig Release: 04/03/2005 End: 04/03/2005  
 Rig Name: ENSIGN DRILLING Rig Number: 55

Code	Operation	Total Hours	Percentage
01	MOVING	35.75	3.22
02	RIG UP	32.00	2.88
03	RIG DOWN	38.50	3.48
10	DRILLING	136.25	12.26
11	DIRECTIONAL DRILLING	235.25	21.17
16	SURVEY	15.00	1.35
17	C & C- DRILLING	57.00	5.13
20	TRIPS	118.00	10.62
21	WASH TO BOTTOM	1.00	0.09
22	HANDLING TOOLS	17.75	1.60
31	WELL CONTROL	0.50	0.04
40	REAMING	18.75	1.69
45	FISHING	35.50	3.19
50	RIG SERVICE	25.75	2.32
51	SLIP & CUT	0.50	0.04
52	RIG REPAIR	23.25	2.09
53	3RD PARTY REPAIR	3.00	0.27
60	LOG	11.00	0.99
61	DST	33.00	2.97
70	RUNNING CASING / LINER	7.75	0.70
71	C & C FOR CEMENT	2.25	0.20
72	MIX AND DISPLACE	2.25	0.20
73	WAITING ON CEMENT	33.75	3.04
74	DRILL OUT CEMENT	31.50	2.83
75	BOP ACT-PT & NIPPLE UP	32.00	2.88
76	PRESSURE TEST CASING	3.50	0.31
79	PLUG & ABANDON	25.75	2.32
81	WAITING ON ORDERS	2.25	0.20
82	WAITING ON DAYLIGHT	20.00	1.80
83	WAITING OTHER	89.00	8.01
90	SAFETY MEETING	21.75	1.96
91	BOP DRILL	2.00	0.18

**TOTAL 1,111.50 100.00**

# Omni Drilling Technologies Inc.

## Standard Survey Report

Company: DEVON CANADA CORPORATION		Date: 6/7/2005	Time: 11:48:48	Page: 10
Field: Eagle Plains	Co-ordinate (NE) Reference:		Site: K-58 True North	
Site: K-58	Vertical (TYD) Reference:		KB Elevation 604.8 above Mean Sea Level	
Well: Devon Eagle Plains	Section (VS) Reference:		Well (0.0E, 0.0N, 0.0Azi)	
Wellpath: Omni Job# 702	Survey Calculation Method:		Minimum Curvature	
Field: Eagle Plains				
Map System: Canadian UTM Zones (NAD83/GRS80)		Map Zone:	UTM Zone 10 North 126W to 120W	
Ellipsoid: WGS 1984		North Reference:	True	
Sys Datum: Mean Sea Level		Geomagnetic Model:	igr2000	
Site: K-58				
Site Position:	From: Local Only	Northing:	m	Latitude:
Position Uncertainty:	0.00 m	Eastings:	m	Longitude:
Water Depth:	0.00 m	Magnetic Declination:	0.00 deg	deg
Well: Devon Eagle Plains				
Well Position:	+N/S: 0.00 m	Northing:	m	Latitude:
From Slot:	+E/W: 0.00 m	Eastings:	m	Longitude:
Position Uncertainty:	0.00 m			
Wellpath: Omni Job# 702				
Vertical Section:	+N/S: 0.00 m	Drilled From:	Surface	
From: Well	+E/W: 0.00 m	Tie-on Depth:	m	
Measured Depth Reference:	KB Elevation	V. Section Direction:	0.00 deg	
	604.76 m	Above System Datum:	Mean Sea Level	
Survey: Directional Surveys				
			Start Date:	6/7/2005
Company: Omni Drilling Technologies Inc.				
Tool:			Engineer:	Roopa Dattari

MD	Incl	Azim	TYD	+N/S	+E/W	VS	DLS	Build	Turn	Tool/Comment
m	deg	deg	m	m	m	m	deg/30m	deg/30m	deg/30m	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	
360.50	0.00	0.00	360.50	0.00	0.00	0.00	0.000	0.000	0.000	
389.00	2.60	52.90	389.00	0.12	0.15	0.12	9.176	9.176	0.000	
513.90	4.00	60.70	513.65	4.57	7.18	4.57	0.304	0.290	1.615	
528.35	4.20	57.70	528.07	5.10	8.07	5.10	0.609	0.415	6.228	
537.95	4.20	56.90	537.64	5.48	8.66	5.48	0.183	0.000	2.500	
547.12	4.60	54.80	548.78	5.88	9.24	5.88	1.401	1.309	6.543	
556.29	4.60	52.90	555.92	6.31	9.84	6.31	0.525	0.000	6.543	
565.75	4.30	48.90	565.36	6.77	10.41	6.77	1.368	-0.951	12.685	
575.38	3.70	43.30	574.96	7.24	10.89	7.24	2.228	-1.869	17.445	
585.18	3.60	36.60	584.74	7.71	11.29	7.71	1.340	-0.306	20.510	
594.96	3.80	33.50	594.50	8.23	11.65	8.23	0.868	0.613	9.509	
604.59	3.90	33.30	604.11	8.77	12.01	8.77	0.314	0.312	0.623	
614.28	3.60	33.40	613.76	9.30	12.36	9.30	0.931	-0.931	0.310	
623.48	3.10	34.70	622.96	9.74	12.66	9.74	1.645	-1.627	4.230	
632.83	2.80	33.90	632.30	10.14	12.93	10.14	0.972	-0.963	2.567	
642.40	2.70	32.70	641.86	10.52	13.18	10.52	0.362	-0.313	3.762	
651.57	2.70	28.70	651.02	10.90	13.40	10.90	0.616	0.000	13.086	
661.33	2.60	27.20	660.77	11.29	13.62	11.29	0.374	-0.307	4.611	
670.86	2.50	27.60	670.29	11.67	13.81	11.67	0.320	-0.315	1.258	
680.67	2.40	28.30	680.09	12.04	14.01	12.04	0.319	-0.308	2.141	
689.87	2.50	27.00	689.28	12.39	14.19	12.39	0.373	0.326	4.239	
699.04	2.60	21.80	698.44	12.78	14.36	12.78	1.257	0.981	17.012	
708.61	3.10	22.20	708.00	13.23	14.55	13.23	0.943	0.940	1.254	
718.30	3.50	21.50	717.67	13.75	14.75	13.75	1.245	1.238	2.167	
727.78	3.40	26.10	727.14	14.27	14.98	14.27	0.931	-0.316	14.557	

# Omni Drilling Technologies Inc.

## Standard Survey Report

Company: DEVON CANADA CORPORATION	Date: 6/7/2005	Time: 11:48:48	Page: 2
Field: Eagle Plains	Co-ordinate(NE) Reference: Site: K-58, True North	KB Elevation 604.8 above Mean Sea Level	
Site: K-58	Vertical (TVD) Reference: Well: (0.0E, 0.0N, 0.0Az)	Well: (0.0E, 0.0N, 0.0Az)	
Well: Devon Eagle Plains	Section (VS) Reference: Survey Calculation Method: Minimum Curvature		
Wellpath: Omni Job# 702			

Survey: Directional Surveys

MD m	Incl deg	Azim deg	TVD m	+N/S m	+E/W m	VS m	DLS deg/30m	Bald deg/30m	Turn deg/30m	Tool/Comment
737.52	3.10	29.40	736.86	14.76	15.24	14.76	1.089	-0.924	-10.164	
747.17	2.50	29.40	746.50	15.17	15.47	15.17	1.865	-1.865	0.000	
756.87	2.10	28.90	756.19	15.51	15.66	15.51	1.275	-1.237	-7.732	
766.08	1.80	20.20	765.40	15.80	15.78	15.80	1.226	-0.977	-21.824	
775.88	1.70	8.00	775.17	16.09	15.86	16.09	1.181	-0.307	-37.423	
785.03	1.70	0.40	784.34	16.38	15.88	16.38	0.737	0.000	-24.864	
794.30	1.70	354.70	793.60	16.63	15.86	16.63	0.547	0.000	-18.447	
804.12	1.70	356.10	803.42	16.92	15.84	16.92	0.127	0.000	4.277	
813.72	1.70	356.30	813.02	17.21	15.82	17.21	0.019	0.000	0.825	
823.33	1.70	355.40	822.62	17.49	15.80	17.49	0.083	0.000	-2.810	
832.50	1.60	354.60	831.79	17.76	15.78	17.76	0.336	-0.327	-2.617	
841.70	1.50	355.40	840.98	18.00	15.76	18.00	0.334	-0.326	-2.609	
850.93	1.40	354.40	850.21	18.24	15.74	18.24	0.335	-0.325	-3.250	
860.36	1.50	354.00	859.64	18.47	15.71	18.47	0.320	0.318	-1.273	
870.07	1.40	354.10	869.35	18.72	15.69	18.72	0.309	-0.309	0.309	
879.27	1.30	346.20	878.54	18.93	15.65	18.93	0.688	-0.326	-25.761	
888.98	1.20	343.70	888.23	19.13	15.60	19.13	0.353	-0.310	-7.740	
898.62	1.00	349.50	897.89	19.31	15.55	19.31	0.710	-0.621	-18.012	
908.29	1.10	353.40	907.56	19.49	15.53	19.49	0.381	0.310	12.099	
918.02	1.10	349.40	917.29	19.67	15.50	19.67	0.237	0.000	-12.333	
927.45	1.30	352.10	926.71	19.87	15.47	19.87	0.661	0.636	-8.590	
936.97	1.40	354.50	936.23	20.09	15.44	20.09	0.362	0.315	-7.563	
946.39	1.40	2.40	945.65	20.32	15.43	20.32	0.614	0.000	-25.159	
956.21	1.20	4.00	955.47	20.54	15.45	20.54	0.621	-0.611	-4.888	
965.78	1.20	15.70	965.03	20.74	15.48	20.74	0.767	0.000	-36.877	
975.21	1.10	26.00	974.46	20.92	15.55	20.92	0.729	-0.318	-32.768	
984.40	1.10	26.70	983.65	21.08	15.63	21.08	0.044	0.000	-2.285	
993.68	1.30	34.90	992.93	21.24	15.73	21.24	0.851	0.647	-26.509	
1003.02	1.30	35.20	1002.27	21.41	15.85	21.41	0.022	0.000	0.964	
1012.29	1.70	37.10	1011.53	21.61	15.89	21.61	1.304	1.294	-6.149	
1021.40	1.90	41.00	1020.64	21.83	16.17	21.83	0.772	0.659	-12.843	
1030.78	2.20	40.80	1030.01	22.09	16.39	22.09	0.960	0.959	-0.840	
1040.16	2.20	41.20	1039.38	22.36	16.63	22.36	0.049	0.000	-1.279	
1049.37	2.00	51.20	1048.59	22.59	16.87	22.59	1.357	-0.651	-32.573	
1058.79	2.10	63.70	1058.00	22.77	17.15	22.77	1.456	0.318	-39.809	
1068.04	2.80	64.00	1067.24	22.94	17.51	22.94	2.271	2.270	0.973	
1077.44	3.50	67.20	1076.63	23.16	17.98	23.16	2.303	2.234	10.213	
1086.58	4.30	65.80	1085.75	23.41	18.55	23.41	2.644	2.626	-4.595	
1096.09	5.10	65.50	1095.23	23.73	19.26	23.73	2.525	2.524	-0.946	
1105.42	5.80	66.10	1104.51	24.09	20.07	24.09	2.258	2.251	-1.929	
1114.60	6.30	66.00	1113.64	24.48	20.95	24.48	1.634	1.634	-0.327	
1123.99	6.20	64.10	1122.98	24.91	21.88	24.91	0.734	-0.319	-6.070	
1133.09	6.10	62.70	1132.02	25.35	22.75	25.35	0.594	-0.330	-4.615	
1142.66	6.00	59.90	1141.54	25.83	23.63	25.83	0.977	-0.313	-8.777	
1151.94	6.30	57.00	1150.77	26.35	24.48	26.35	1.396	0.970	-9.375	
1161.36	6.70	56.20	1160.13	26.94	25.37	26.94	1.306	1.274	-2.548	
1170.75	7.20	55.60	1169.45	27.58	26.31	27.58	1.614	1.597	-1.917	
1180.10	7.50	56.90	1178.72	28.24	27.30	28.24	1.101	0.963	-4.171	
1189.06	7.70	57.50	1187.60	28.88	28.30	28.88	0.720	0.670	2.009	
1198.10	7.80	58.40	1196.56	29.53	29.33	29.53	0.522	0.332	2.987	
1207.72	7.60	59.10	1206.09	30.20	30.44	30.20	0.689	-0.624	2.183	
1217.30	6.90	57.90	1215.60	30.83	31.47	30.83	2.243	-2.192	-3.758	
1226.50	6.30	53.90	1224.74	31.42	32.34	31.42	2.464	-1.957	-13.043	
1235.76	5.80	50.60	1233.94	32.02	33.12	32.02	1.973	-1.620	-10.691	

# Omni Drilling Technologies Inc.

## Standard Survey Report

Company: DEVON CANADA CORPORATION	Date: 6/7/2005	Time: 11:48:48	Page: 3
Field: Eagle Plains	Co-ordinate(NE) Reference: Site: K-58 True North	Vertical (TVD) Reference: KB Elevation 604.8 above Mean Sea Level	
Site: K-58	Section (VS) Reference: Well: (0.0E,0.0N,0.0Az)		
Well: Devon Eagle Plains	Survey Calculation Method: Minimum Curvature		
Wellpath: Omni Job# 702			

**Survey: Directional Surveys**

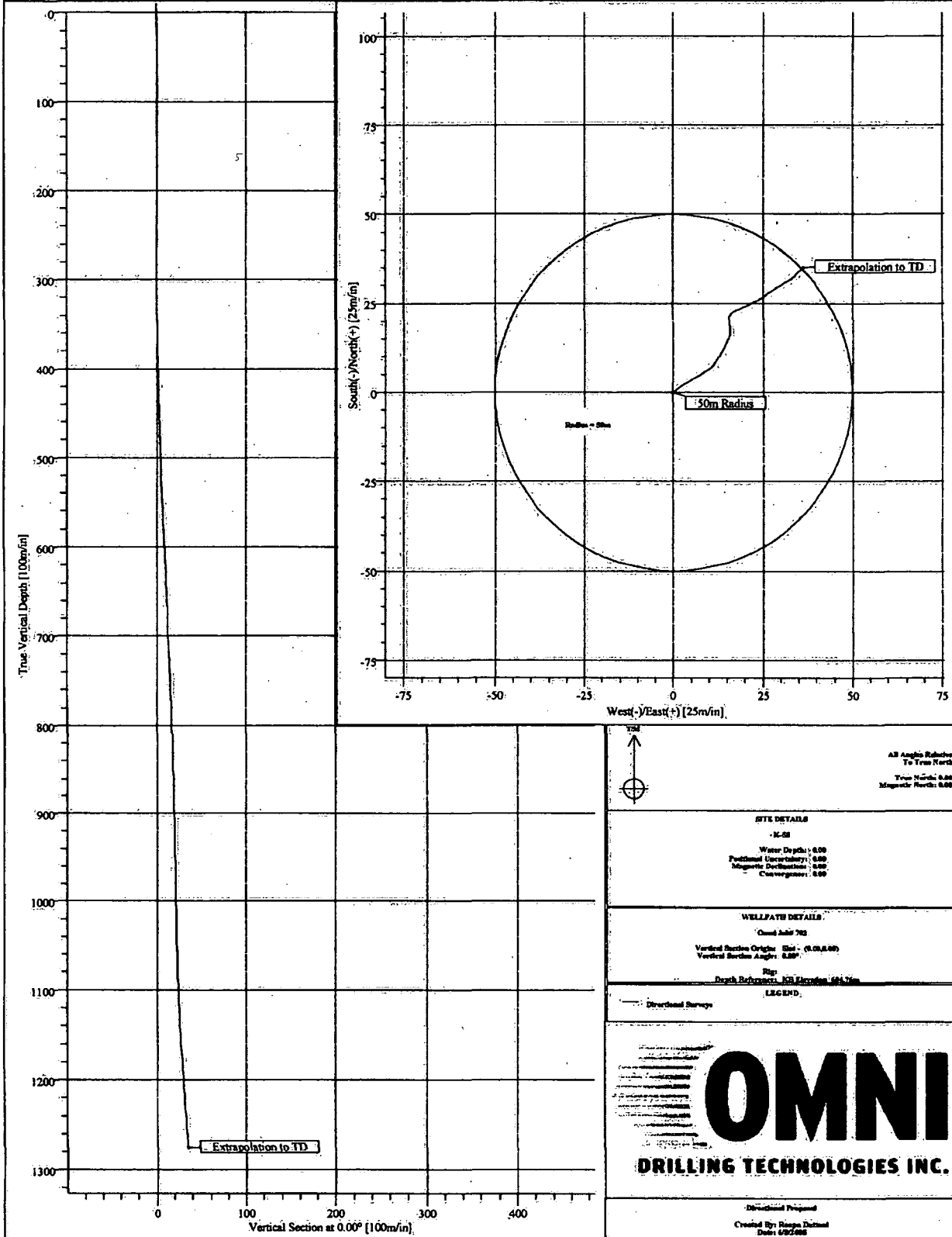
MD	Incl	AZ	TVD	N-S	E-W	VS	DLS	Build	Tam	Tool/Comment
m	deg	deg	m	m	m	m	deg/30m	deg/30m	deg/30m	
1245.17	5.90	47.30	1243.31	32.65	33.84	32.65	1.119	0.319	-10.521	
1254.74	6.10	48.10	1252.82	33.33	34.57	33.33	0.740	0.627	-3.762	
1282.00	6.20	47.00	1280.04	33.87	35.13	33.87	0.574	0.413	3.719	
1278.00	6.42	48.98	1275.94	35.05	36.44	35.05	0.580	0.412	3.712	Extrapolation to TD

**Annotation**

MD	TVD	Tool/Comment
m	m	
1278.00	1275.94	Extrapolation to TD



Field: Eagle Plains  
 Site: K-58  
 Well: Devon Eagle Plains  
 Wellpath: Omni Job# 702  
 Survey: Directional Surveys



All Angles Relative To True North  
 True North: 0.00  
 Magnetic North: 0.00

**SITE DETAILS**  
 - K-58  
 Water Depth: 0.00  
 Positional Uncertainty: 0.00  
 Magnetic Deviation: 0.00  
 Convergence: 0.00

**WELLPATH DETAILS**  
 - Omni Job# 702  
 Vertical Section Origin: East - (0.00, 0.00)  
 Vertical Section Angle: 0.00°  
 Rig: Depth Reference: 500 Extrapolate: 664.7m  
 LEG END

Directional Surveys

**OMNI**  
**DRILLING TECHNOLOGIES INC.**

Directional Program  
 Created By: Rupa Datta  
 Date: 08/2008





2006/02/14

25

OPERATOR: DEVON CANADA CORPORA  
 CONTRACTOR: ENSIGN DRILLING  
 RIG: 55  
 RIG TYPE:  
 API NUMBER: K58660713655N  
 REED WELL NO: CAL 97  
 OPERATOR REP: ROLAND BENOIT & JOHN WILLIAMS  
 TOOLPUSHER:  
 DIRECTNL CO: OMNI  
 WELL REMARKS:

**REED Hycalog**  
 A Grant Prideco Company

LIC. NO: YT1120  
 LIC. DEPTH: 1330.1 m  
 LIC. FORM TN: FORD LAKE  
 REP: VERNON SWAREN  
 PHONE NO:

SECTION: 07  
 TOWNSHIP: 136  
 RANGE: 55N  
 COUNTRY: CANADA  
 DISTRICT: 5431  
 LATITUDE: 66° 7' 34.8" N  
 LONGITUDE: 136° 55' 27.8" W

WELL NAME: 66-07-136-55N/K58  
 SURVEY:  
 FIELD: DEVON EAGLE PLAINS K-58  
 WELL PROFILE: Vertical

ABSTRACT: BLOCK:  
 \*\* CONFIDENTIAL TILL 28-MAR-07 \*\*

Page 1 of 2

PUMP1 MAKE/MODEL: /  
 PUMP2 MAKE/MODEL: GARDNER-DENVER P27  
 PUMP3 MAKE/MODEL: /  
 DRAWWORKS: TOP DRIVE

MUD COMPANY:  
 MUD SYSTEM: N/A  
 CONTRACT TYPE: Daywork  
 CONTRACT DEPTH: m

SPUD: 22-FEB-05  
 UNDERSURFACE: 06-MAR-05  
 INTERMEDIATE:  
 TOTAL DEPTH: 28-MAR-05

PIPE SIZE/TYPE:  
 HW PIPE SIZE/TYPE: LENGTH:  
 COLLAR 1:  
 COLLAR 2:

BIT NO	BIT SIZE mm	BIT MFG	BIT TYPE	SERIAL NO	JET SIZE mm or TFA mm	DEPTH OUT m	DRILLED m	HRS RUN	ACC HRS	ROP m/h	WOB kdaN	TOTAL RPM	MTR RPM	VERT DEV	PUMP kPa	FLOW m3/min	MUD					DULL CODES				RUNMT DATE					
																	T	WT	VS	VIS	WE	LO	MD	LOC	B		G	OO	RP		
1	311.2	HC	X1CXP	J17674	14.3/14.3/14.3	100	100	14.00	14	7.1	1 / 6	60 / 120		0.3	4500	2.01	W	1180					2	2	NO	A	E	In	NOFM	22-FEB-05	
LOST CIRC @ 95M - RUN 2 CEMENT PLUGS - MUD TEMP = 18°C																															
2	311.2	HC	X1CXP	J17674	14.3/14.3/14.3	115	15	4.25	18	3.5	1 / 10	80 / 120		0.3	8000	2.8	W	1110					2	2	NO	A	E	In	NOBHA	25-FEB-05	
DRILL OUT CEMENT - LOST CIRC - RUN PLUG #3																															
3	311.2	HC	X1CXP	J17674	14.3/14.3/14.3	143	28	1.75	20	16.0	1 / 1	80 / 120		1.3	5000	2.21	W	1110					2	2	NO	A	E	In	NOBHA	26-FEB-05	
DRILL OUT CEMENT - DRILL BLIND - RUN PLUG #4																															
4	311.2	HC	X1CXP	J17674	14.3/14.3/14.3	206	63	10.75	31	5.9	6 / 10	90 / 120		3.0	5700	2.06	W	1160					4	4	FC	A	E	In	NOPR	28-FEB-05	
5	311.2	HC	MXR18P	RR00539	17.8/17.8/17.5	291	85	22.25	53	3.8	1 / 6	120 / 140		2.0	7400	2.09	W	1160					3	3	NO	A	E	In	NOPR	01-MAR-05	
MUD TEMP = 24°C																															
6	311.2	SB	F2XP	YD5187	14.3/14.3/14.3	362	71	15.50	69	4.6	4 / 6	140 / 145		2.8	8000	2.09	W	1180					2	2	WT	G	E	In	NOTD	02-MAR-05	
MUD TEMP = 32°C																															
7	222.3	RH	TD61XMP	L54002	12.7/12.7/12.7	467	95	28.50	97	3.3	3 / 4	130 / 140		4.3	6000	1.41	W	1220	7	25	8	2	3	FC	A	E	1	T	PR	04-MAR-05	
BHA: INSERT BIT, BIT SUB, DC X 5, JARS, DC X 5, HWDP X 10 Run Remarks: JACK RIG TO LEVEL & DRILL OUT - HART RIVER 385M - MUD TEMP = 32°C																															
8	222.3	RH	TD44MP	HY2303	12.7/12.7/12.7	527	70	39.75	137	1.8	6 / 7	110 / 112		4.0	6000	1.41	W	1200	8	27	8	4	5	FC	A	E	In	BTDSF	08-MAR-05		
BHA: INSERT BIT, BIT SUB, DC X 5, JARS, DC X 5, HWDP X 10 Run Remarks: TWIST OFF DC - DETERIORATION AROUND CELLAR - MUD TEMP = 22°C																															
9	222.3	RH	TD51XMP	L54002	25.4/25.4/25.4	527	0	.00	137								W						2	3	FC	A	E	1	T	BHA	11-MAR-05
CIRC - WAIT ON DC INSPECTOR																															
10	222.3	HC	HRS38C	6021470	14.3/14.3/12.7	734	207	59.25	196	3.5	14 / 16	25 / 35	MM	3.4	10000	1.3	W	1235	8	28	8.5	5	6	WT	A	E	In	BT PR	14-MAR-05		
BHA: INSERT BIT, LO SPEED MOTOR, FLOAT SUB, MONEL, PULSER SUB, MONEL, XO PIN/BOX, SHOCK SUB, DC X 4, JARS, DC X 9, HWDP X 9 Run Remarks: DIRECTIONAL DRILL - MOTOR SET AT 1.5° - MUD TEMP = 28°C																															
11	222.3	RH	TD61AP	JL4478	14.3/14.3/14.3	889	155	50.00	246	3.1	16 / 17	25 / 28	MM	1.2	10600	1.29	W	1350	13	36	7	7	8	BT	A	F	In	T PR	17-MAR-05		
BHA: INSERT BIT, LO SPEED MOTOR, FLOAT SUB, MONEL, PULSER SUB, MONEL, XO PIN/BOX, SHOCK SUB, DC X 4, JARS, DC X 9, HWDP X 9 Run Remarks: DIRECTIONAL DRILL - MOTOR SET AT 1.5° - S3A 882M - MUD TEMP = 30°C																															
12	222.3	HC	HRS44G	6028920	14.3/14.3/15.9	1051	162	50.75	297	3.2	16 / 19	25 / 40	MM	2.0	10000	1.29	W	1310	12	35	8.5	5	7	WT	G	E	2	FC	PR	21-MAR-05	
BHA: INSERT BIT, LO SPEED MOTOR, FLOAT SUB, MONEL, PULSER SUB, MONEL, XO PIN/BOX, SHOCK SUB, DC X 4, JARS, DC X 9, HWDP X 9 Run Remarks: DIRECTIONAL DRILL - CHANCE 998M - MUD TEMP = 28°C																															

2006/02/14



A Grant Prideco Company

OPERATOR : DEVON CANADA CORPORA  
 CONTRACTOR : ENSIGN DRILLING  
 RIG : 55  
 RIG TYPE :  
 API NUMBER : K58860713655N  
 REED WELL NO : CAL 97  
 OPERATOR REP : ROLAND BENOIT & JOHN WILLIAMS  
 TOOLPUSHER :  
 DIRECTNL CO : OMNI  
 WELL REMARKS :

LIC. NO. : YT1120  
 LIC. DEPTH : 1330.1 m  
 LIC. FORMTN : FORD LAKE  
 REP : VERNON SWAREN  
 PHONE NO :

LSD : 66 SECTION : 07 TOWNSHIP : 136 RANGE : 55N  
 PROVINCE : YUKON TERRIT COUNTRY : CANADA  
 WELL NAME : 66-07-136-55N-K58 DISTRICT : 5431  
 LATITUDE : 66° 7' 34.8" N LONGITUDE : 136° 55' 27.6" W  
 SURVEY : ABSTRACT : BLOCK :  
 FIELD : DEVON EAGLE PLAINS K-58 WELL PROFILE : Vertical

CONFIDENTIAL TILL 28-MAR-07

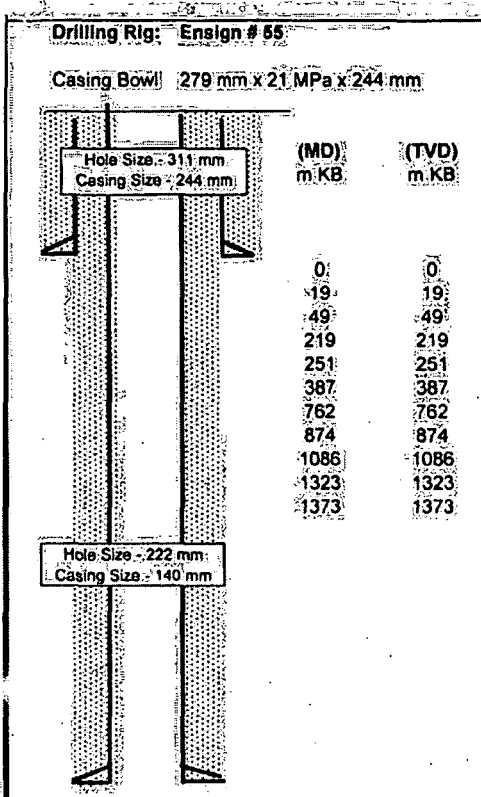
PUMP1 MAKE/MODEL : PUMP2 MAKE/MODEL : GARDNER-DENVER/PZ7 PUMP3 MAKE/MODEL : DRAWWORKS : TOP DRIVE :	MUD COMPANY : MUD SYSTEM : N/A CONTRACT TYPE : Daywork CONTRACT DEPTH : m	SPUD : 22-FEB-05 UNDERSURFACE : 06-MAR-05 INTERMEDIATE : TOTAL DEPTH : 28-MAR-05	PIPE SIZE/TYPE : HW PIPE SIZE/TYPE : COLLAR 1 : COLLAR 2 :	LENGTH :
--	--	---	---	----------

BIT NO	BIT SIZE (mm)	BIT MFG	BIT TYPE	SERIAL NO	JET SIZE		DEPTH OUT (m)	DRILLED (m)	HRS RUN	ACC HRS	ROP (m/h)	WOB (kdaN)	TOTAL RPM	MTR RPM	VERT DEV	PUMP (kPa)	FLOW (m <sup>3</sup> /min)	MUD				DULL CODES				RUN/INT DATE						
					mm	or TFA (mm)												WT	%S	VIS	WL	FO	MO	LOC	B		G	OD	RP			
13	222.3	RH	TD61AP	JL4474	14.3	14.3	15.9	1102	61	20.25	317	2.6	16 / 19	25 / 30	MM	5.1	10000	1.29	W	1320	11	34	8	3	4	T	G	E	1	FC	HP	26-MAR-05
BHA: INSERT BIT, LO SPEED MOTOR, FLOAT SUB, MONEL, PULSER SUB, MONEL, XO PIN/BOX, SHOCK SUB, DC X 4, JARS, DC X 9, HWDP X 9 Run Remarks: DIRECTIONAL DRILL - CANOE 1083M - MUD TEMP = 23°C																																
14	222.3	RH	TD53AMP	D74378	14.3	14.3	15.9	1234	132	43.60	361	3.0	15 / 17	25 / 30	MM	6.3	10000	1.29	W	1300	11	33	8	6	7	T	G	E	3	FC	PR	26-MAR-05
BHA: INSERT BIT, LO SPEED MOTOR, FLOAT SUB, MONEL, PULSER SUB, MONEL, XO PIN/BOX, SHOCK SUB, DC X 4, JARS, DC X 9, HWDP X 9 Run Remarks: DIRECTIONAL DRILL - MUD TEMP = 28°C																																
15	222.3	RH	TD53AP	M16005	14.3	14.3	16.9	1278	44	12.25	373	3.6	16 / 18	25 / 35	MM	6.4	10000	1.29	W	1315	12	49	7.5	2	3	T	G	E	In	FC	TD	27-MAR-05
BHA: INSERT BIT, LO SPEED MOTOR, FLOAT SUB, MONEL, PULSER SUB, MONEL, XO PIN/BOX, SHOCK SUB, DC X 4, JARS, DC X 9, HWDP X 9 Run Remarks: DIRECTIONAL DRILL - MUD TEMP = 28°C																																

26



**Devon Eagle Plains K-58** License #: 1120  
 Lat. 66° 07' 34.8" Long. 136° 55' 27.6" Vertical Yes Sour Well  
 Exploration-Gas District - Yukon Territory Tight Hole - Yes



Working Interest	
Devon Canada Corporation	100.0%
Estimated # Days	22
AFE # 5270083	
AFE Est. \$4,994,000	
Elevations / Depths	
Ground Level	Survey'd: 599.3 m
Kelly Bushing	604.0 m
Total Depth (TVD)	1373 mKB

Formation Tops	Depth Subsea (m)	Expected Pressure	EMD	Potential Problems
Parkin Shale	603			LC
Parkin Sand**	584	192 kPa	1030.1 kg/m <sup>3</sup>	AP
Whitestone River	554	495 kPa	1029.8 kg/m <sup>3</sup>	
Jungle Creek**	384	2,212 kPa	1029.6 kg/m <sup>3</sup>	
Blackie (S4)	352	2,535 kPa	1029.5 kg/m <sup>3</sup>	
Hart River (S3B)***	216	3,909 kPa	1029.6 kg/m <sup>3</sup>	
Top (S3A)	159			
Chance SS*	-271	10,700 kPa	1248.0 kg/m <sup>3</sup>	AP, S
Canoe (S1)	-483	10,969 kPa	1029.6 kg/m <sup>3</sup>	S
Ford Lake	-720	13,362 kPa	1029.5 kg/m <sup>3</sup>	
TD in Ford Lake	-770	13,867 kPa	1029.5 kg/m <sup>3</sup>	

\* Primary zone \*\* Secondary Zone (S-Sour Zone, AP-Abnormal Pressure, LC-Last Circulation, WI-Water Injection, DP-Depleted)

**Geological Evaluation**

GSC Samples SC to TD 5m int.

Devon Samples SC to TD 5m int.

Gas Detection Hot Wire

Cores None

DST two - three anticipated

Logging as per geological prognosis\*\*

**Additional Information**

\*\* Logging program will entail porosity logs, resistance logs, side wall core and MDT.

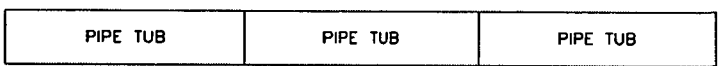
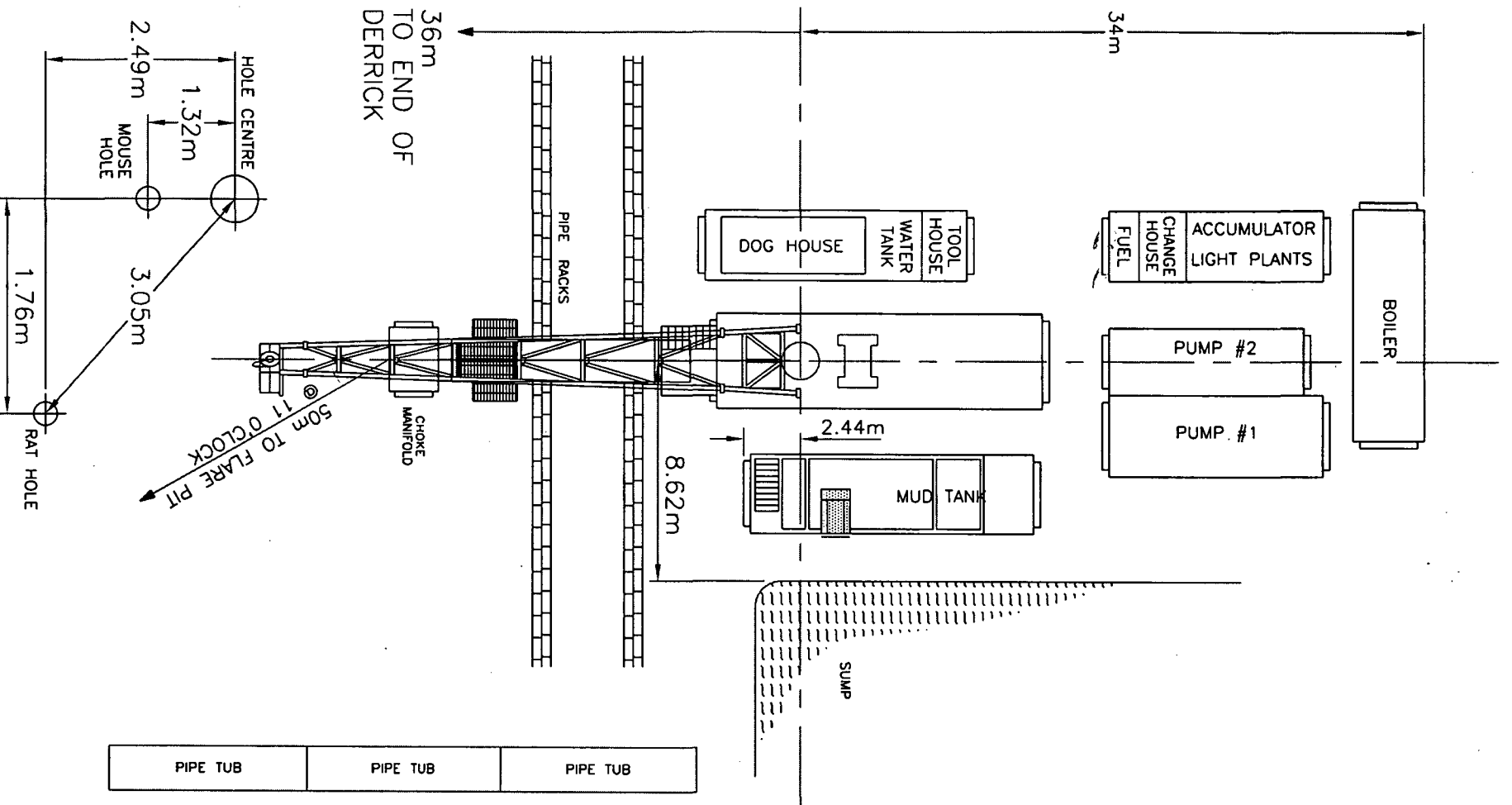
H<sub>2</sub>S is possible, with a potential concentration of 0.1% in the Chance sand and 4.3% in the Canoe member. Release rate 0.72 m<sup>3</sup>/s. EPZ 1.8 km.

Over pressured gas is possible in the shallow Parkin sand at 19 meters. The off set well D-54 and C-33 experienced +/- 7000 kPa. Consequently a diverter system will be employed while drilling surface hole.

<b>Drilling Fluids</b>	
Surface	0-350 Water based Gel / Lime
Main	350-1373 Water based Gel system
<b>Casing Design</b>	
Surface	
0-350 m	244.5 mm; 53.6 kg/m; J-55 ST&C
0-1373	139.7 mm; 25.31 kg/m; L-80 LT&C
<b>Cement</b>	
Surface	350-0 Lead: Glacial Mix + 20% GCR-2 Tail: 0:1:0 Class "G" + 2.0% CaCl <sub>2</sub>
Production	1373-0 Lead: 1:1:2 Class "G" + 0.5% CFR Tail: 0:1:0 Class "G" + 0.3% CFL-3 + 0.2% SPC-11

Date Prepared 2004/11/11, Tops Revised 2005-02-19. Prepared by David Quinn





**DRAWWORKS**  
 SUPERIOR 700 PSD (700 hp/522 kW)  
 Input: (2) CAT 3406 (801 hp/597 kW)

**MAST**  
 Dresco  
 Cantilever Double  
 Height: 32.6 m  
 G.N.C.: 187,000 dan  
 Static Hook Load: 124,500 dan (8 lines)  
 Static Hook Load: 113,000 dan (6 lines)

**SUBSTRUCTURE**  
 DRECO ONE PIECE, PINNED  
 KB to Ground: 4.72 m  
 Clear Work Height: 3.8 m

**MUD PUMP #1 (Triplex)**  
 GARDNER DENVER PZ-8-T  
 Rated: 751 hp/560 kW  
 Input: CAT D-388 (900 hp/671 kW)

**MUD PUMP #2 (Triplex)**  
 GARDNER DENVER PZ-7  
 Rated: 550 hp/410 kW  
 Input: CAT D-379 (550 hp/410 kW)

**MUD TANK**  
 1 Tank (66 m<sup>3</sup>)  
 Shaker: SWACO LINEAR MOTION  
 Desilter: TOPCO 12-CONE  
 2 Mixing Pumps: 50 hp/37 kW

**LIGHT PLANT**  
 Rated: 349 hp/260 kW  
 Input: CAT 3406 (288 hp/215 kW)  
 Volts: 480 V

**B.O.P.'s** (279 mm x 21,000 kPa NACE)  
 HYDRIL GK ANNULAR  
 2 SHAFFER LWS SNGL GATES

**ROTARY TABLE**  
 G.D. 444.5 mm

**SWIVEL**  
 T SM 150  
 Rated: 133,500 dan

**HOOK BLOCK**  
 BLOCK GARDNER DENVER 200T  
 Rated: 177,900 dan  
 Hook: B1 6150  
 Rated: 133,500 dan

**CHOKES MANIFOLD**  
 76 mm x 21,000 kPa

**ACCUMULATOR**  
 WAGNER - 9 STATION/EH

**BOILER**  
 Volcano (126 hp)  
**TUBULARS**  
 Drill pipe: 101.6 mm

**AUXILIARY EQUIPMENT**  
 KELLY SPINNER  
 PIPE SPINNER  
 MAKE & BREAK RAMS

**# 55**

2,600m

101.6mm DRILL PIPE  
 OCT.09, 03, DWG. E55



As Agent for Ensign Drilling Partnership





# REES N.D.T. INSPECTION SERVICES LTD.



# DE- 1488

9113 - 111 Street  
Grande Prairie, Alberta T8V 4M5

GRANDE PRAIRIE, AB  
Tel: (780) 539-3594  
Fax: (780) 532-8047

DISPATCH  
1-888-540-3594  
www.reesndt.com

BONNYVILLE, AB  
Tel: (780) 573-7630  
Fax: (780) 573-7796  
Email: ronvader@reesndt.com

July 13, 2004

**Ensign Drilling**  
2000 - 5<sup>th</sup> Street  
Nisku AB  
T9E 7X3

File #: R2k4-134-09  
WO#: D7209  
PO#: A1526  
Job#: 21281



## Inspection Certificate

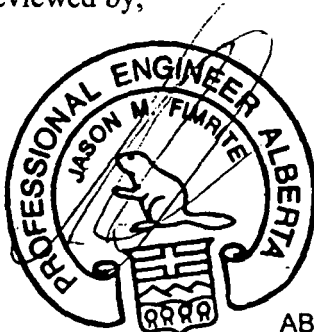
Certification of: Weld repairs on derrick  
Model: Modified Cantilever Double  
Unit #: Rig 55  
Serial No.: E8460568  
Make: Dreco Ltd.  
Capacity: 280,000 lbs/ 8 lines  
Owner: Ensign Drilling  
Repairs completed by: Lonewolf Welding

Rees Inspection Services Ltd. performed a visual and magnetic particle inspection on the above mentioned *Drilling Rig*.

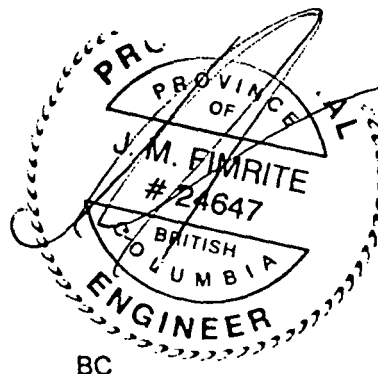
The undersigned Engineer reviewed all inspection reports upon completion of any required repairs. Based on this review of final inspection results, it is our opinion, that the *Drilling Rig* may be returned to service and operated within the original manufacturer's specifications.

This certification covers the above mentioned unit for a period of 24,000 hrs not to exceed original certification as per CAODC recommended practice 1.0, or until the unit is damaged by handling, transportation or operation.

Reviewed by,



Jason Fimrite, P.Eng.



BC

Crown E-1475



# Borza Inspections Ltd.

A Corrpro Company

Mailing Address: 86, 52313 RR 232, Sherwood Park, Alberta, Canada T8B 1B7

Shop Address: 5710 - 17 Street, Edmonton, Alberta, Canada T6P 1S4

Bus: (780) 944-2857 • Fax: (780) 440-2147

24 Hour Service

Edmonton, AB • Fort Nelson, BC

ISO 9003 - #97-598

August 12, 2002

Ensign Drilling Inc.

2001 - 4<sup>th</sup> Street

Nisku, Alberta

T9E 7W6



## CERTIFICATION

Equipment: Crown Assembly

Company No.: E1475      Borza Inspections Ltd. Stamp No.: M55160

Model: 5 - 36" Sheaves

Owner: Ensign Drilling Inc., Rig #55

Repair Facility: Ensign Drilling Inc. (W.O. 14061)

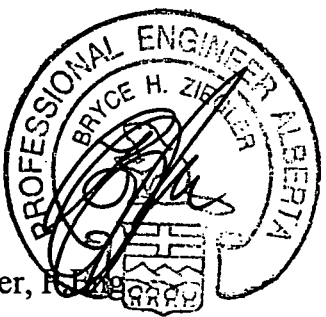
Borza File No's: E8019/M55160

We performed our engineering examination of this crown assembly on June 4, 2002 at Ensign Drilling Inc. The crown assembly was completely disassembled and sandblasted.

Borza technicians provided magnetic particle inspection services. Final NDT inspection revealed no defects.

As a result of our inspections and review of repairs, we believe that this crown assembly may be safely returned to service within the manufacturer's original specifications.

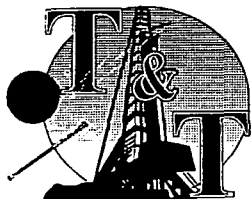
This certification is valid for 1000 operating days as per CAODC T-94-1/RP-1.0, or until the crown assembly is damaged by handling or operation.



Bryce Ziegler, P.Eng.

PERMIT TO PRACTICE	
Borza Inspections Ltd.	
Signature	<i>[Signature]</i>
Date	8/12/2002
PERMIT NUMBER: P-5761	
The Association of Professional Engineers, Geologists and Geophysicists of Alberta	





# INSPECTION SERVICES

8022 Coronet Road Edmonton, Alberta T6E 4N9  
Phone: 403-469-9688 Fax: 403-463-9389  
NON-DESTRUCTIVE EXAMINATION & ENGINEERING  
24 Hour Service

## EQUIPMENT CERTIFICATION

January 29, 2002

Issued to:

Ensign Drilling Inc.  
2001 - 4<sup>th</sup> Street  
Nisku, Alberta  
T9E 7W6

Swivel  
E-1870

**Rig: Spare**  
**Equipment: TSM Swivel Assembly**  
**Model: 150 Ton**  
**Serial No.: E1870**  
**T&T Field Report No.: 23363**  
**Black Ink Enterprises Ltd. : W.O.: 1093**  
**Eng. File No.: 01084924**

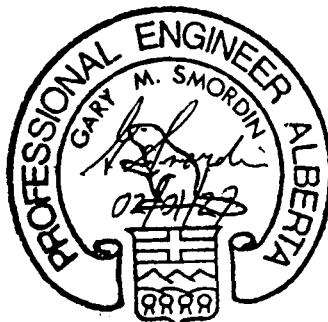
The above-mentioned equipment required Level IV inspection, repairs where needed and certification for service.

T&T Inspections & Engineering Ltd. conducted the magnetic particle inspection and visual examination. Recommended repair procedures were given to Black Ink Enterprises Ltd.

Based on the final inspection and review of critical dimensions and components, it is our opinion that the equipment is a safe operating unit and may be returned to service within the manufacturer's original ratings and specifications.

This certification is valid for a period of 1000 operating days, as per the recommendations provided by the Canadian Association of Oilwell Drilling Contractors, or until the unit has been damaged either as a result of operation, transportation or handling.

<b>PERMIT TO PRACTICE</b>
T & T INSPECTIONS & ENGINEERING LTD.
Signature <u>G. Smordin</u>
Date <u>January 29, 2002</u>
<b>PERMIT NUMBER: P 6501</b>
The Association of Professional Engineers, Geologists and Geophysicists of Alberta





# Borza Inspections Ltd.

A Corrpro Company

Mailing Address: 86, 52313 RR 232, Sherwood Park, Alberta, Canada T8B 1B7

Shop Address: 5710 - 17 Street, Edmonton, Alberta, Canada T6P 1S4

Bus: (780) 944-2857 • Fax: (780) 440-2147

24 Hour Service

Edmonton, AB • Fort Nelson, BC

ISO 9003 - #97-598

December 21, 2001

Ensign Drilling Inc.  
2001 - 4<sup>th</sup> Street  
Nisku, Alberta  
T9E 7W6

Hook



E-1814

## CERTIFICATION

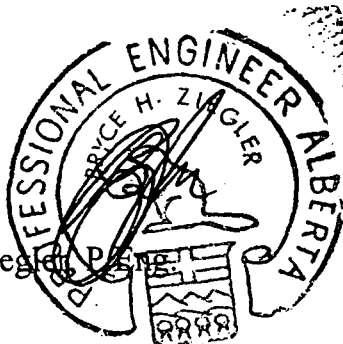
Equipment: BJ Hook Assembly  
Company No.: E1814      Borza Inspections Ltd. Stamp No.: M51736  
Model: Unimatic 6150 (150 Ton)  
Owner: Ensign Drilling Inc., Rig #40  
Repair Facility: Ensign Drilling Inc. (W.O. 12929)  
Borza File No's: E7050/M51736/M51445/P5911

We performed our engineering examination of this hook assembly on November 12 and 26, 2001 at Ensign Drilling Inc. The hook assembly was completely disassembled and sandblasted.

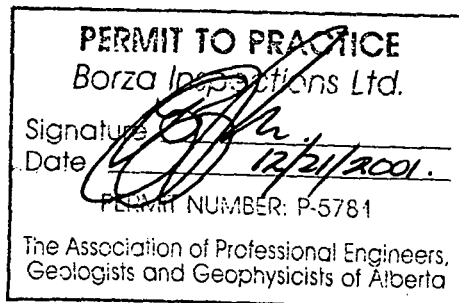
Borza technicians provided magnetic particle inspection services and welding procedures. Welding repairs were carried out by Ensign Drilling Inc. Final NDT inspection revealed no defects.

As a result of our inspections and review of repairs, we believe this hook assembly may be safely returned to service within the manufacturer's original specifications.

This certification is valid for 1000 operating days as per CAODC-T-94-2.0, or until the hook assembly is damaged by handling or operation.



Bryce Ziegler, P.Eng.



(a)



# Borza Inspections Ltd.

A Corpro Company

Mailing Address: 86, 52313 RR 232, Sherwood Park, Alberta, Canada T8B 1B7

Shop Address: 5710 - 17 Street, Edmonton, Alberta, Canada T6P 1S4

Bus: (780) 944-2857 • Fax: (780) 440-2147

24 Hour Service

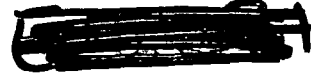
Edmonton, AB • Fort Nelson, BC

ISO 9003 - #97-598

December 21, 2001

Ensign Drilling Inc.  
2001 - 4<sup>th</sup> Street  
Nisku, Alberta  
T9E 7W6

Block



E-2361

## CERTIFICATION

Equipment: Gardner Denver Traveling Block Assembly

Company No.: ~~██████~~ Borza Inspections Ltd. Stamp No.: M51735

Model: 200 Ton E-2361

Owner: Ensign Drilling Inc., Rig #40

Repair Facility: Ensign Drilling Inc. (W.O. 12929)

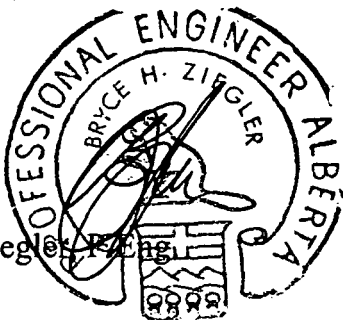
Borza File No's: E7050/M51735

We performed our engineering examination of this traveling block assembly on November 12, 2001 at Ensign Drilling Inc. The traveling block assembly was completely disassembled and sandblasted.

Borza technicians provided magnetic particle inspection services. Final NDT inspection revealed no defects.

As a result of our inspections and review of repairs, we believe this traveling block assembly may be safely returned to service within the manufacturer's original specifications.

This certification is valid for 1000 operating days as per CAODC-T-94-2.0, or until the traveling block assembly is damaged by handling or operation.



Bryce Ziegler, P.Eng.

PERMIT TO PRACTICE	
Borza Inspections Ltd.	
Signature	
Date	12/21/2001
PERMIT NUMBER: P-5781	
The Association of Professional Engineers, Geologists and Geophysicists of Alberta	

Bails.



**INDUSTRIAL INC.**

11650 - 156 STREET, EDMONTON, ALBERTA T5M 3T5  
(780) 455-6444 • FAX (780) 452-0429

- ALCO MACHINE WORKS INC.
- ALCO FLOW CONTROL LTD.
- MICRO INDUSTRIES (ALBERTA) LTD.
- ALCO INDUSTRIAL, a Division of Alco Machine Works Inc.

June 27, 2001

Gator Oilfield Supply  
5312 - 89<sup>th</sup> Street  
Edmonton, Alberta  
T6E 5P9

E-70155

**Equipment Certification**

**Equipment: KOT Bail Links**  
**Model: 2-1/4" x 96", 250-Ton**  
**Serial No.: 22732**  
**T&T Inspection Report No.: 22732**  
**Alco Machine Works Inc. W.O.: 32336**  
**Engineering File No.: 32336-E**

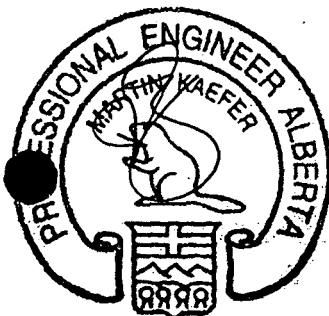
The above-mentioned bail links required a Level IV inspection (as per Canadian Association of Oilwell Drilling Contractors, R.P. 4.0), applicable repairs, and certification for service.

T&T Inspections & Engineering Ltd. conducted a magnetic particle (MP) inspection on June 21, 2001 after the bail links were completely sandblasted.

Repair procedures were developed based on the MP inspection report as well as a thorough visual examination performed by qualified personnel with Alco Machine Works Inc.

Based on the final inspection on June 27, 2001 after load testing, it is our opinion that the bail links are a safe operating unit and may be returned to service within the manufacturers original rating and specification.

This certification is valid for a period of 6 years, as per the recommendations provided by the Canadian Association of Oilwell Drilling Contractors, or until the bail links have been damaged either as a result of operation, transportation or handling.



<b>PERMIT TO PRACTICE</b> <b>ALCO MACHINE WORKS INC.</b>
Signature _____
Date <u>JUNE 27, 2001</u>
<b>PERMIT NUMBER: P7208</b>
The Association of Professional Engineers, Geologists and Geophysicists of Alberta



# INDUSTRIAL INC.

11650 - 156 STREET, EDMONTON, ALBERTA T5M 3T5  
(780) 455-6444 • FAX (780) 452-0429

- ALCO MACHINE WORKS INC.
- ALCO FLOW CONTROL LTD.
- MICRO INDUSTRIES (ALBERTA) LTD.
- ALCO INDUSTRIAL, a Division of Alco Machine Works Inc.

March 8, 2001

Ensign Drilling Inc.  
2001 - 4<sup>th</sup> Street  
Nisku, Alberta  
T9E 7W6

*Elevator  
E#1439*

## Equipment Certification

**Rig: 92**  
**Equipment: WTM Drill Pipe Elevator**  
**Model: 4-1/2" x 18°, 150-Ton**  
**Serial No.: E-1439**  
**T&T Inspection Report No.: 6074**  
**Alco Machine Works Inc. W.O.: 30631**  
**Engineering File No.: 30631-E**

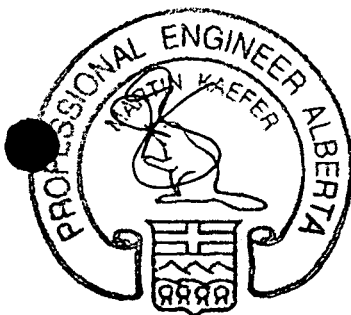
The above-mentioned elevator required a Level IV inspection (as per Canadian Association of Oilwell Drilling Contractors, R.P. 2.0), applicable repairs, and certification for service.

T&T Inspections & Engineering Ltd. conducted a magnetic particle (MP) inspection on January 18, 2001, after the elevator was completely disassembled and sandblasted.

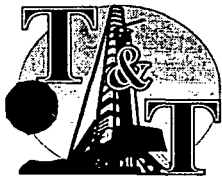
Repair procedures were developed based on the MP inspection report as well as a thorough visual examination performed by qualified personnel with Alco Machine Works Inc.

Based on the final inspection on March 8, 2001, after load testing, it is our opinion that the elevator is a safe operating unit and may be returned to service within the manufacturers original rating and specification.

This certification is valid for a period of 500 operating days, as per the recommendations provided by the Canadian Association of Oilwell Drilling Contractors, or until the elevator has been damaged either as a result of operation, transportation or handling.



<p><b>PERMIT TO PRACTICE</b>  <b>ALCO MACHINE WORKS INC.</b></p> <p>Signature <u><i>[Signature]</i></u></p> <p>Date <u><i>March 8, 2001</i></u></p> <p><b>PERMIT NUMBER: P7208</b>  The Association of Professional Engineers,  Geologists and Geophysicists of Alberta</p>
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# INSPECTIONS & ENGINEERING

407 - 22 Avenue Nisku, Alberta T9E 7X2  
Phone: 780-955-9688 Fax: 780-955-9389  
NON-DESTRUCTIVE EXAMINATION & ENGINEERING  
24 Hour Service

55-2711

## EQUIPMENT CERTIFICATION

September 13, 2004

*Issued to:*

Ensign Drilling Inc.  
2000 - 5 Street  
Nisku, Alberta  
T9E 7X3

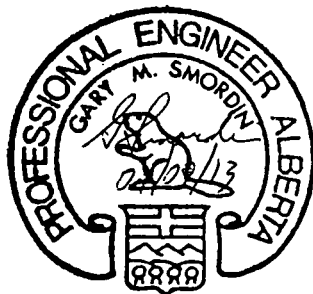
Rig #: ..... 55  
Equipment: ..... Dreco Substructure  
Model: ..... 1 Piece  
Serial #: ..... E-8460-568  
Equipment #: ..... E-2711  
Floor Height: ..... 15'- 4" / 4.67 meters  
Casing Capacity: ..... 275,000 Lbs. / 123,300 daN  
Setback Capacity: ..... 275,000 Lbs. / 123,300 daN  
T & T Field Report #: ..... 27829  
Engineering File #: ..... 04067869

The substructure was prepared for a Level IV inspection, any applicable repairs, and certification for service. T&T Inspections & Engineering Ltd. examined the substructure in full detail, which was in an assembled and sandblasted condition. Recommended repair procedures were given to Ensign Drilling Inc..

Based on the final inspection and repairs completed, it is our opinion that the equipment is a safe operating unit and may be returned to service within the manufacturer's original ratings and specifications.

This certification is valid for a period 1000 operating days, as per recommendations provided by the Canadian Association of Oilwell Contractors, or until the unit has been damaged either as a result of operation, transportation or handling. In addition, the owner must perform regular routine inspections as per CAODC guidelines on the substructure.

**PERMIT TO PRACTISE**  
T & T INSPECTION & ENGINEERING LTD.  
Signature: G. Snorden  
Date: September 13, 2004  
**PERMIT NUMBER: P 6501**  
The Association of Professional Engineers,  
Geologists and Geophysicists of Alberta





**WIRE ROPE**  
INDUSTRIES LTD.

BRL-2325

**CERTIFICATE OF PROOFLOADING**

**CUSTOMER:**

ENSIGN DRILLING INC  
2002 - 5 STREET  
NISKU, ALBERTA

**CERTIFICATE NO:**

04034

**W.R.I. ORDER NO:**

409167

**DESCRIPTION OF MATERIAL:**

PEND, WR, 1-3/8 X 61.42 FT, RRL, IWRC, OPSK, OPSK  
1-3/8" 6X37 X 61'5" C/W CUSTOMERS OPEN  
SPELTER SOCKET. EACH END

**CUSTOMER P.O.:**

1-09295 RIG 55

**WORKING LOAD LIMIT:**

38,400 LBS

**QUANTITY:**

2

**AT WORK LOAD LIMIT FACTOR:**

FIVE TO ONE

**GRADE (TENSILE) OF MATERIAL:**

EIPS

**DESCRIPTION OF TEST:**

Straight Pull on 100T Coatbridge Test Bed -  
Electronic Load Cell

**NOMINAL BREAKING LOAD:**

192,000 LBS

**PROOFLOADING**

76,800 LBS

**ACTUAL BREAKING LOAD:**

N/A

**TEST MACHINE:**

100 Ton Coatbridge Test Bed - Electronic  
Load Cell

**REMARKS:**

**DATE CALIBRATED:**

September 20, 2001

**DATE:**

09-06-07

**PER:**

*[Signature]*  
WINSTON ELIOT



10 - 21 Ave.,  
Edmonton, AB T6L 6L8  
Phone/Fax: (780) 450-1485

# M.C. Inspections Inc.

Inspection Report

9840

Service Alberta for 15 years

Client Wire Rope Industries

Address 2920-101st

Location Emerson Drilling rig #55

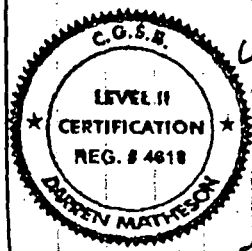
P.O.# 36650 W.O.# \_\_\_\_\_ Date June 6/2002

### Type of Inspection

Magnetic Particle Inspection Dry MPI  Fluorescent Particle  AC Con't  DC Res   
Coil  Yoke   
Liquid Penetrant Inspection Visible  Fluorescent  Waterwash  Post Emulsified   
Solvent Removable

Items Inspected: to N.D. as requested -  
4 - 1 3/8 open sockets (CIW PINS)

Inspection Results: all were found to be free of any  
usual defects at time of inspection  
attention shop formal accepted by  
none.



By [Signature] Accepted By [Signature]

REPORTS represent good faith opinions only, and are not to be considered warranties or guarantees of condition or usability of all equipment or material inspected.





BRL-2429

### CERTIFICATE OF PROOFLOADING

**CUSTOMER:**  
ENSIGN DRILLING INC  
2002 - 5 STREET  
NISKU, ALBERTA

**CERTIFICATE NO:**  
04034

**W.R.I. ORDER NO:**  
409167

**DESCRIPTION OF MATERIAL:**  
PEND, WR, 1-3/8 X 61.42 FT, RRL, IWRC, OPSK, OPSK  
1-3/8" 6X37 X 61'5" C/W CUSTOMERS OPEN  
SPELTER SOCKET EACH END

**CUSTOMER P.O.:**  
1-09295 RIG 55

**WORKING LOAD LIMIT:**  
38,400 LBS

**QUANTITY:** 2

**AT WORK LOAD LIMIT FACTOR:**  
FIVE TO ONE

**GRADE (TENSILE) OF MATERIAL:**  
EIPS

**DESCRIPTION OF TEST:**  
Straight Pull on 100T Coatbridge Test Bed -  
Electronic Load Cell

**NOMINAL BREAKING LOAD:**  
192,000 LBS

**PROOFLOADING**  
76,800 LBS

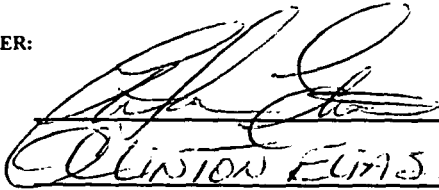
**ACTUAL BREAKING LOAD:**  
N/A

**TEST MACHINE:**  
100 Ton Coatbridge Test Bed - Electronic  
Load Cell

**REMARKS:**

**DATE CALIBRATED:**  
September 20, 2001

**DATE:**  
02-06-07

**PER:**  
  
WINSTON ELIAS.



9840

Wire Rope Industries

2920-101 St

Edmonton Drillers' Reg #55

P.O.# 36650

W.O.#

Date June 6/2002

Type of Inspection

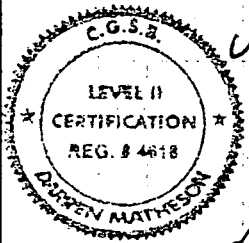
Magnetic Particle Inspection Dry MPI  Flourescent Particle  AC Con't  DC Res 
Coil  Yoke 
Liquid Penetrant Inspection Visible  Flourescent  Waterwash  Post Emulsified 
Solvent Removable

Items Inspected: to N.D.T as requested -

4- 1 3/8 open sockets (CIW pins)

Inspection Results:

All were found to be free of any usual defects at time of inspection attention shop formal accepted by none.



Serviced By [Signature] Accepted By [Signature]

INSPECTION REPORTS represent good faith opinions only, and are not to be considered warranties or guaranties of quality, classification or usability of all equipment or material inspected.

02-06-07

[Signature] CLINTON ELIAS

DING

IMIT:

MIT FACTOR:

EST:

100T Coatbridge Test Bed - Cell

G

100T Test Bed - Electronic

101





SB-70797

# Certification

Purchase Date: December 14, 2004

Customer: Ensign Drilling

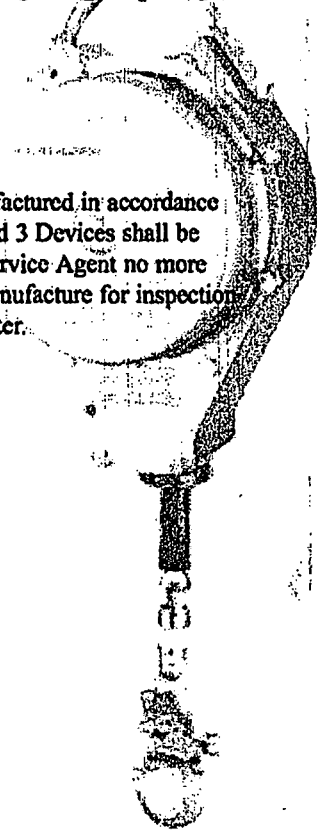
Model No.: DBI 3103108

Serial No.: 23911

ID No.:

Order No.: 6109741-00

This unit has been manufactured in accordance with CSA Standard Z259.2. Type 2 and 3 Devices shall be returned to Manufacturer Approved Service Agent no more than two (2) years from the date of manufacture for inspection and maintenance, and annually thereafter.

A detailed illustration of a fall protection device, likely a lanyard or connector, shown in a vertical orientation. It has a circular top section and a handle-like bottom section.

For Service/Recertification:  
**CenturyValley**  
4810 - 92 Avenue  
Edmonton, Alberta

The logo for CenturyValley, featuring the word "CenturyValley" in a stylized, cursive font with a leaf-like graphic element under the "y".  
**Technical Services**



SB-70796

# Certification

Purchase Date: December 14, 2004

Customer: Ensign Drilling

Model No.: DB13103208

Serial No.: 30775

ID No.:

Order No.: 6109741-00

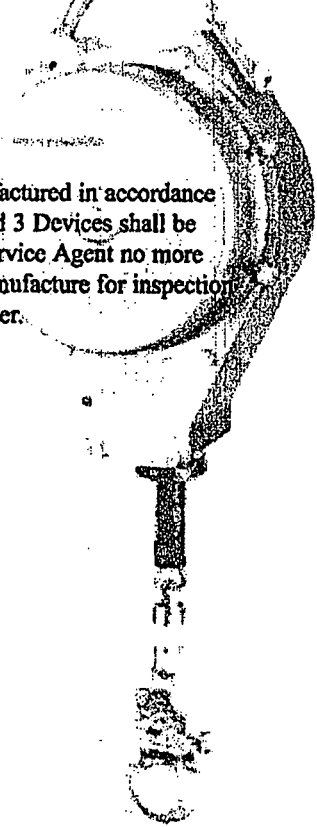
This unit has been manufactured in accordance with CSA Standard Z259.2. Type 2 and 3 Devices shall be returned to Manufacturer Approved Service Agent no more than two (2) years from the date of manufacture for inspection and maintenance, and annually thereafter.

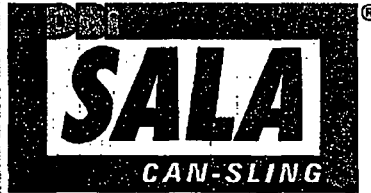
*For Service/Recertification:*

**CenturyVallen**  
4810 - 92 Avenue  
Edmonton, Alberta

The logo for CenturyVallen, featuring the word "CenturyVallen" in a stylized, cursive font with a curved arrow pointing to the right, and "Technical Services" in a bold, sans-serif font below it.

**Technical Services**





# Certification

SR-70345

Date: Jan 12/2005

Work Order No.: N/A. 6106

Customer: Ensign Drilling

Model No. 3103208

Serial No. 22309

ID No. E-70345

Next Service Due: Jan 2006

This is to verify that the above Fall Protection Block was serviced to manufacturers specifications to meet or exceed the CSA requirements (CSA Z259.2.2-98).

This Fall Protection Device requires re-certification one year from the above date. Extreme working conditions may indicate the necessity to increase annual service.

Technician: \_\_\_\_\_

Service Performed by:  
CenturyVallen  
4810 - 92 Avenue  
Edmonton, Alberta



SB-2968



# Certification

Date: Jan 12/2005

Work Order No.: NK 03677

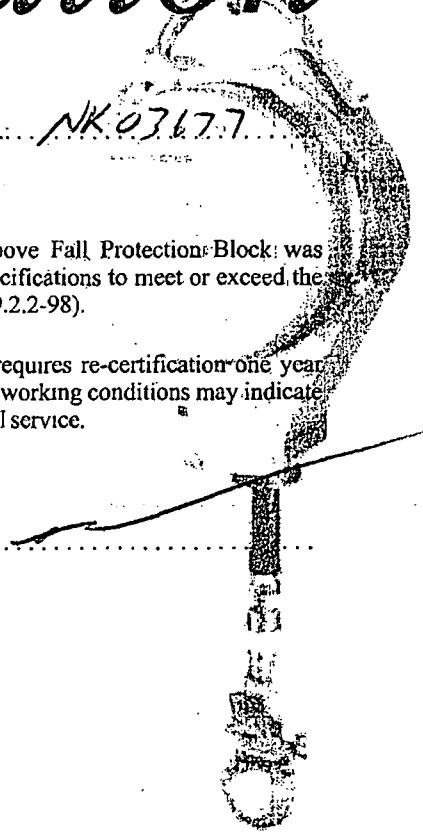
Customer: Ensign Drilling  
Model No.: 3103224 (239204-20)  
Serial No.: 17592  
ID No.: E2968  
Next Service Due: Jan 2006

This is to verify that the above Fall Protection Block was serviced to manufacturers specifications to meet or exceed the CSA requirements (CSA Z259.2.2-98).

This Fall Protection Device requires re-certification one year from the above date. Extreme working conditions may indicate the necessity to increase annual service.

Technician: \_\_\_\_\_

Service Performed by:  
CenturyVallen  
4810 - 92 Avenue  
Edmonton, Alberta





3B-2477



# Certification

Date: Jan 12/2005

Work Order No.: NK 08313

Customer: Ensign Drilling

Model No.: E3400

Serial No.: 027402

ID No.: E2477

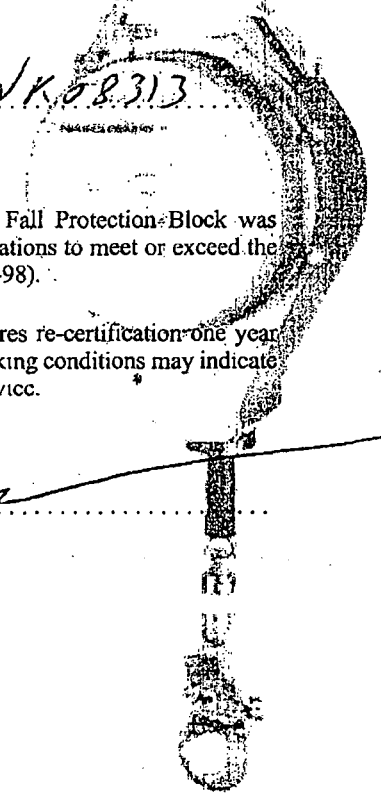
Next Service Due: Jan 2006

This is to verify that the above Fall Protection Block was serviced to manufacturers specifications to meet or exceed the CSA requirements (CSA Z259.2.2-98).

This Fall Protection Device requires re-certification one year from the above date. Extreme working conditions may indicate the necessity to increase annual service.

Technician: \_\_\_\_\_

Service Performed by:  
CenturyVallen  
4810 - 92 Avenue  
Edmonton, Alberta



SB-2195



# Certification

Repair Date: ENSIGN DRILLING LTD.

E 2195

RIG #:

REPAIR

DBI/SALA  
 2 Thorncliffe Park Drive  
 Unit 14  
 Toronto, Ontario M4H 1H2  
 1 800 205 6866

We hereby certify the following items to meet or exceed the CSA requirements

Model Number	Serial Number
<u>3403600</u>	<u>025349</u>
	<u>130 ft. SRL</u>

All certifications apply to new (or serviced products). Certification void if manufacturer's instructions for use, care, and maintenance are not followed. Alterations or misuse of this product will also void all certification.

Notes: Annual inspection and/or service by an authorized service center is recommended. Extreme working conditions may indicate the necessity to increase the frequency of inspection and/or service.

Signature [Signature] Title DBI-TECH Date \_\_\_\_\_



Serviced by:  
**Commercial bearing service** (1966) Ltd.  
 Nisku Safety 1 800 6618505

015-013246



**RS MACHINE & MANUFACTURING LTD.**

1207 - 8 Street  
NISKU, AB. T9E 7M3

TO-6167


Phone (780) 955 7981

Fax (780) 955 7991

**LOAD TEST CERTIFICATE**

**TONGS**

**DATE:** SEPTEMBER 13, 2002  
**CERT:** LTT-0902-22819-0016  
**CUSTOMER:** ENSIGN DRILLING INC.  
**ADDRESS:** 2002-5TH STREET  
NISKU, AB  
T9E 7X3  
  
**RIG #:** 58  
  
**DESCRIPTION:** TYPE B 1/2 SET 39" LEVER  
**MANUFACTURER:** WTM  
**SERIAL NUMBER:** F6167  
**LUG:** 5 1/4-7 1/4  
**RATED CAPACITY:** 35000 FT LBS  
**TEST TO:** 35000 FT LBS  
**RS W.O. NUMBER:** 22819  
**INSPECTION NUMBER:** M57916

**AUTHORIZED BY:** 

R.S. Machine & Manufacturing Ltd.



A Corpro Company

Head Office: 5710 - 17th Street  
Edmonton, Alberta T6P 1S4  
Branch Office: P.O. Box 2020, Fort Nelson, BC V0C 1R0

**24 HOUR SERVICE**  
BUS: (780) 944-2857  
FAX: (780) 440-2147

# MAGNETIC PARTICLE EXAMINATION REPORT

FIELD REPORT NUMBER **M - 57918**

ISO 9003 - #97-598

Page: 1 of 1  
Date: SEP-17/2002  
Job #: 22821  
P.O. #:

CLIENT: RS MACHINE / ENSIGN. RIG # 58  
LOCATION: NISKU, AB  
ITEM EXAMINED: 8) WTM B LUG JAWS.  
TEST METHOD: ASTM E-709  
ACCEPTANCE STANDARD: ASTM E-125.

## TECHNIQUE DETAILS

- BI PROCEDURE NO. MT-2F
- MPI EQUIPMENT:  
 Manufacturer: MAGNAFLUX Type: y6 Serial No: 0802 Last Calibration: 09/02  
 Manufacturer: SPECTROLINE Type: SB100PX Serial No: 1363917 Last Calibration: "
- MAGNETIZING METHOD:  AC  DC •  Continuous  Residual •  Prod  Yoke  Coil
- MAGNETIC PARTICLES:  Dry (Color \_\_\_\_\_)  Wet •  Fluorescent  Non-fluorescent
- Manufacturer: MAGNAFLUX Type: 14A-011064.
- SURFACE CONDITION:  Clean Bare Metal  As Ground  Machined  Sand Blasted  Painted  Loose Scale Removed

## EXAMINATION RESULTS & COMMENTS

FINAC  
FINAC MAGNETIC PARTICLE EXAMINATION WAS PERFORMED ON THE ABOVE

ITEMS TESTED:   
2) 9-10<sup>3</sup>/<sub>4</sub>" LUGS  
2) 6<sup>7</sup>/<sub>8</sub>-8<sup>5</sup>/<sub>8</sub>" "  
2) 4<sup>1</sup>/<sub>2</sub>-5<sup>3</sup>/<sub>4</sub>" "  
2) 2<sup>7</sup>/<sub>8</sub>-4<sup>5</sup>/<sub>8</sub>" "

RESULTS: ~~CRACKS WERE DETECTED~~  
NO RELEVANT INDICATIONS WERE DETECTED @ TIME OF FINAC EXAMINATION.

## SIGNATURES

CLIENT REPRESENTATIVE \_\_\_\_\_  
TECHNICIAN (Sign) \_\_\_\_\_  
TECHNICIAN (Print) R. Breen CGSA Level \_\_\_\_\_ ASNT Level \_\_\_\_\_  
ASSISTANT (Print) \_\_\_\_\_

B.I. JOB #

\*Client Representative's Signature Indicates acceptance of report and results.

**RS MACHINE & MANUFACTURING LTD.**

1207 - 8 Street  
NISKU, AB. T9E 7M3

TO-6168

Phone (780) 955 7981  
Fax (780) 955 7991

**LOAD TEST CERTIFICATE  
TONGS**

DATE: SEPTEMBER 13, 2002  
CERT: LTT-0902-22820-0017  
CUSTOMER: ENSIGN DRILLING INC.  
ADDRESS: 2002-5TH STREET  
NISKU, AB  
T9E 7X3  
  
RIG #: 58  
  
DESCRIPTION: TYPE B 1/2 SET 39" LEVER  
MANUFACTURER: WTM  
SERIAL NUMBER: F6168  
LUG: 5 1/4-7 1/4  
RATED CAPACITY: 35000 FT LBS  
TEST TO: 35000 FT LBS  
RS W.O. NUMBER: 22820  
INSPECTION NUMBER: M57917

AUTHORIZED BY:



R.S. Machine & Manufacturing Ltd.



A Corpro Company

Head Office: 5710 - 17th Street  
Edmonton, Alberta T6P 1S4  
Branch Office: P.O. Box 2020, Fort Nelson, BC V0C 1R0

24 HOUR SERVICE  
BUS: (780) 944-2857  
FAX: (780) 440-2147

# MAGNETIC PARTICLE EXAMINATION REPORT

FIELD REPORT NUMBER **M - 57918**

ISO 9003 - #97-598

Page: 1 of 1  
Date: SEP-17/2002  
Job #: 22B21  
P.O. #:

CLIENT: RS MACHINE / ENSIGN. RIG # 58  
LOCATION: NISKU AB  
ITEM EXAMINED: 8) WTM B LUG JAWS.  
TEST METHOD: ASTM E-709  
ACCEPTANCE STANDARD: ASTM E-125

## TECHNIQUE DETAILS

- BI PROCEDURE NO. MT-2F
- MPI EQUIPMENT:  
 Manufacturer: MAGNAFLUX Type: Y6 Serial No: 0802 Last Calibration: 09/02  
 Manufacturer: SPECTROLINE Type: SB100PX Serial No: 1363817 Last Calibration: "
- MAGNETIZING METHOD:  AC  DC •  Continuous  Residual •  Prod  Yoke  Coil
- MAGNETIC PARTICLES:  Dry (Color \_\_\_\_\_)  Wet •  Fluorescent  Non-fluorescent
- Manufacturer: MAGNAFLUX Type: 14A-01LD64
- SURFACE CONDITION:  Clean Bare Metal  As Ground  Machined  Sand Blasted  Painted  Loose Scale Removed

## EXAMINATION RESULTS & COMMENTS

FINAC

FINAL MAGNETIC PARTICLE EXAMINATION WAS PERFORMED ON THE ABOVE

ITEMS TESTED: 2) 9-10<sup>3</sup>/<sub>4</sub>" LUGS  
2) 6<sup>7</sup>/<sub>8</sub>-8<sup>5</sup>/<sub>8</sub>" "  
2) 4<sup>1</sup>/<sub>2</sub>-5<sup>3</sup>/<sub>4</sub>" "  
2) 2<sup>7</sup>/<sub>8</sub>-4<sup>5</sup>/<sub>8</sub>" "

RESULTS: ~~CRACKS WERE DETECTED~~  
NO RELEVANT INDICATIONS WERE DETECTED @ TIME OF  
FINAC EXAMINATION.

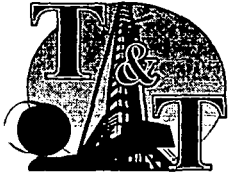
## SIGNATURES

CLIENT REPRESENTATIVE: \_\_\_\_\_  
TECHNICIAN (Sign): \_\_\_\_\_  
TECHNICIAN (Print): R. BERRY CGSB Level \_\_\_\_\_ ASMI Level \_\_\_\_\_  
ASSISTANT (Print): \_\_\_\_\_

B.I. JOB #

\*Client Representative's Signature indicates acceptance of report and results.





# INSPECTIONS & ENGINEERING

BB-10021

407 - 22 Avenue Nisku, Alberta T9E 7X2  
Phone: 780-955-9688 Fax: 780-955-9389  
NON-DESTRUCTIVE EXAMINATION & ENGINEERING  
24 Hour Service

## EQUIPMENT CERTIFICATION

July 26, 2004

Issued to:

Ensign Drilling Inc.  
2105 - 8 Street  
Nisku, Alberta  
T9E 7Z1

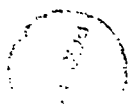
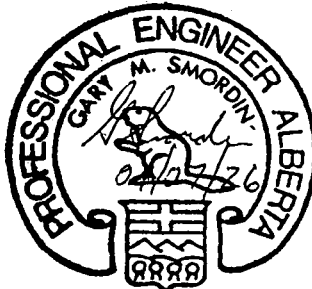
Rig #: ..... 55  
Equipment: ..... Superior Brake Bands  
Model: ..... 700  
Stamped: ..... T&T 27816-1,-2  
Equipment #: ..... E#BB10021  
T & T Field Report #: ..... 27816  
Ensign Drilling Inc.: ..... W.O.# 18556  
Engineering File #: ..... 04077950

The above-mentioned equipment required a Level IV inspection, repairs where needed and certification for service. The bands were in a new manufactured condition at the time of magnetic particle inspection.

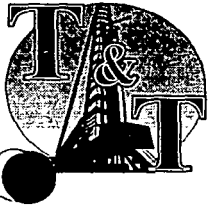
Based on the inspection and review of critical dimensions, it is our opinion that the equipment is a safe operating unit and may be placed into service within the manufacturer's original ratings and specifications.

This certification is valid for a period of 1000 operating days, as per the recommendations provided by the Canadian Association of Oilwell Drilling Contractors, or until the unit has been damaged either as a result of operation, transportation or handling.

<b>PERMIT TO PRACTISE</b>
T & T INSPECTION & ENGINEERING LTD.
Signature <u>G. Smordin</u>
Date <u>July 26, 2004</u>
<b>PERMIT NUMBER: P 6501</b>
The Association of Professional Engineers, Geologists and Geophysicists of Alberta



BL-1483



# INSPECTIONS & ENGINEERING

407 - 22 Avenue Nisku, Alberta T9E 7X2  
Phone: 780-955-9688 Fax: 780-955-9389  
NON-DESTRUCTIVE EXAMINATION & ENGINEERING  
24 Hour Service

## EQUIPMENT CERTIFICATION

August 05, 2004

Issued to:

Ensign Drilling Inc.  
2105 - 8 Street  
Nisku, Alberta  
T9E 7Z1



Rig #: ..... 55  
Equipment: ..... Superior Brake Linkage  
Model: ..... 700  
Stamped: ..... T&T 27841  
Equipment #: ..... E1483  
T & T Field Report #: ..... 27841  
Ensign Drilling Inc.: ..... W.O.# 18557  
Engineering File #: ..... 04077942

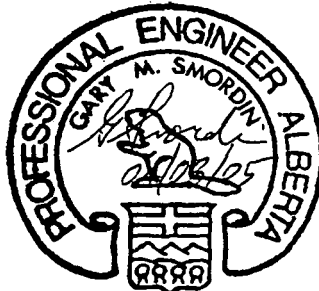
The above-mentioned equipment required a Level IV inspection, repairs where needed and certification for service.

T&T Inspections & Engineering Ltd. conducted the magnetic particle inspection and visual examination. Recommended repair procedures were given to Ensign Drilling Inc..

Based on the final inspection and review of critical dimensions and components, it is our opinion that the equipment is a safe operating unit and may be returned to service within the manufacturer's original ratings and specifications.

This certification is valid for a period of 1000 operating days, as per the recommendations provided by the Canadian Association of Oilwell Drilling Contractors, or until the unit has been damaged either as a result of operation, transportation or handling.

<b>PERMIT TO PRACTISE</b>
T & T INSPECTION & ENGINEERING LTD.
Signature <u>A. Swardin</u>
Date <u>August 5, 2004</u>
<b>PERMIT NUMBER: P 6501</b>
The Association of Professional Engineers, Geologists and Geophysicists of Alberta







30-814



CERTIFICATE OF INSPECTION

88 6th Street, Suite 400  
New Westminster, BC V3L 5B3

Phone: (604) 660 - 6254  
Toll Free: 1-866-566-SAFE  
Fax: (604) 660 - 6215  
www.safetyauthority.ca

Owner/Agent Information

ENSIGN DRILLING INC  
2000 5 STREET  
NISKU AB 97X 3

Activity Date: December 31, 2004  
Permit #: 32491911

Contact: ENSIGN DRILLING INC  
Phone:  
Site Information: ENSIGN DRILL 814 FORT ST JOHN, BC

Unit Information

ID: HP100197      Name: A0452230 E-814      Federal: N  
Status: Active      Class: High Pressure Boiler      National Board #: ENSIGN 814  
Frequency: 12 months      CRN: D1345.21  
Capacity: 46 m2      Type: Scotch Dryback  
Manufacturer: Bethlehem Corp  
Serial #: 96-22412      Model: A0452230      Date Mfg: 1996  
Occupancy:      Refrig Group:      Refrig Lbs.:

	<u>MAWT</u>	<u>AWP</u>	<u>MAWP</u>	<u>DIA</u>	<u>LENGTH</u>	<u>VOLUME</u>
Shell:		150 psig	150 psig			
Tube:						

Pressure Relief Devices

Manufacturer	Type	Capacity	Set Pressure
watts	Safety Valve	150 psig	6582 LB/HR

Outstanding Non-Compliances

Code      Code Description

Non-Compliances

Code      Code Description

Safety Officer's Notes

Unit tight under hydro. Keep boiler water Ph above 10.5  
Keep outside drain valves on the two water columns and blowdown line open during cold weather.  
Take water sample for Ph test from the gauge glass drain and not from the instrumentation line.

Inspection Result:

# Certificate of Inspection

**ENSIGN DRILLING INC**  
2000-5 STREET  
ATTN: PAUL MEADE-CLIFT  
NISKU, AB  
T9E 7X3

PREFERRED RE-INSP. INTERVAL: 1.00 Yr.

YEAR BUILT: 1981

CRN: D1345.2

SERIAL #: 96-2241/2

VOLUME:

HEATING SURFACE: 46.45 M2

SURFACE AREA:

COMPANY CODE: E-814

DESCRIPTION: RIG BOILER

LOCATION: PORTABLE, NISKU

MANUFACTURER: BETHLEHEM CORPORATION

Safety Valves

PART	MAX. AUTHORIZED WORKING PRESSURE	MAX. TEMP	MIN. TEMP	VALVE ID	SETTING	CAPACITY	LOCATION
BOILER	1034 KPA	185 C		SV1	1034 KPA	2992 KG/H ON VESSEL	

**OWNER INSTRUCTIONS/REMARKS:**

OPERATE PRESSURE RELIEF VALVE(S) MANUALLY BY MEANS OF THE LIFTING LEVER EVERY MONTH TO ENSURE CORRECT FUNCTIONING.

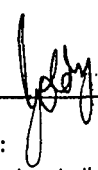
TEST WATER COLUMN AND GAUGE GLASS DAILY.

BLOW DOWN LOW WATER FUEL CUT-OFF WEEKLY TO TEST OPERATION.

MAINTAIN PROPER WATER TREATMENT.

**Safety Codes Officer: MATHUR, GOLDY**

Signature: \_\_\_\_\_



**REQUIREMENTS OF THE SAFETY CODES ACT AND THE REGULATIONS ISSUED THEREUNDER:**

The owner or person in charge shall report all accidents involving a boiler, pressure vessel or pressure piping system to the district Safety Codes Officer immediately and shall send a full report in writing to the Administrator as required by the Act. No repairs or alterations may be made unless authorized by a Safety Codes Officer.

BOP's /  
Hoses



SERVICES & SUPPLY LTD.

2301 - 8th STREET  
NISKU, ALBERTA T9E 7Z1  
PH. (780) 955-2210 FAX (780) 955-7504

Three Year Re-manufacture



OILCO CERTIFIES THAT THIS BLOWOUT PREVENTER HAS BEEN RE-MANUFACTURED AND TESTED, IN STRICT ACCORDANCE WITH THE ALBERTA ENERGY AND UTILITIES BOARD; CANADIAN ASSOCIATION OF OILWELL DRILLING CONTRACTORS RECOMMENDED PRACTICE - 6.0 OR 7.0, LATEST VERSION LEVEL IV GUIDELINES; TO STANDARDS MEETING OR EXCEEDING ORIGINAL EQUIPMENT MANUFACTURERS' SPECIFICATIONS; AND/OR AMERICAN PETROLEUM INSTITUTE SPECIFICATIONS.

EQUIPMENT OWNER: ENSIGN DRILLING INC.

DESCRIPTION: 11" 3000 PSI SHAFCO RS SINGLE GATE

WORK ORDER NUMBER: 4003699 O.E.M. SERIAL NUMBER: 10S3-92


WEIGHT: 3,482.5 (lbs.) CUSTOMER SERIAL NUMBER: E222 WO#17020

STUD SIZE: 1 3/8" x 6 5/8" PACKING ELEMENT: \_\_\_\_\_

BOLT SIZE: \_\_\_\_\_ TRIM: NACE #N499

RING GASKET: R53 CLOSING VOLUME: 12.59 (L.) 3.25 (US gal.)

OPENING VOLUME: 10.46 (L.) 2.70 (US gal.)

  
MANAGER, QUALITY ASSURANCE  
IN ACCORDANCE WITH CERTIFYING PARTY  
MARVIN G. MISHIO, P.Eng., C.Mfg.T.

MARCH 15, 2004  
RE-MANUFACTURED DATE  
NOVEMBER 5, 2004  
IN-SERVICE DATE



# Borza Inspections Ltd.

Mailing Address: Box 86, 52313 RR 232, Sherwood Park, Alberta, Canada T8B 1B7  
Shop Address: 5710 - 17 Street, Edmonton, Alberta, Canada T6P 1S4  
Bus: (780) 944-2857 • Fax: (780) 440-2147  
24 Hour Service

ISO 9003 - #97-598

November 20, 2000



E# 222

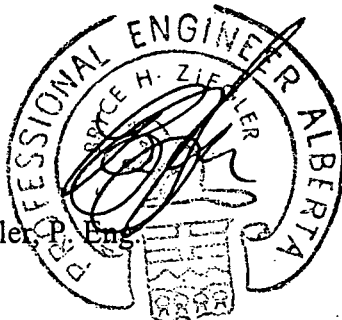
Ensign Drilling Ltd.  
2105 - 8<sup>th</sup> Street  
Nisku, Alberta  
T9E 7Z1

Attention: Ron Pettapiece

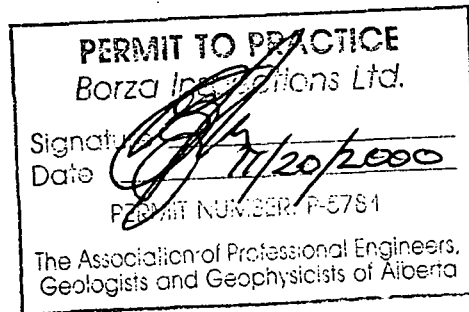
**Re: Shop service requirement**  
**Equipment:** Shafco 11" - 3000# Single Gate B.O.P.  
**Company No.:** E-222      **Serial No.:** 1053-92  
**Ensign W.O. No.:** 11743  
**BI Field Report No.:** M43530/M44144/M44133/M44527  
**BI Engineering Report No.:** E5459

After review of Ensign W.O. 11743, this equipment meets the service requirements of ERCB IL88-11 (3 year shop servicing) as of November 15, 2000. The material in this equipment was originally certified to meet NACE M1075 requirements on E2801 which is on file with Ensign Resource Group.

Regards,



Bryce Ziegler, P. Eng



(a)

BP-220



### SERVICES & SUPPLY LTD.

2301 - 8th STREET  
NISKU, ALBERTA T9E 7Z1  
PH. (780) 955-2210 FAX (780) 955-7504

### Three Year Re-manufacture



OILCO CERTIFIES THAT THIS BLOWOUT PREVENTER HAS BEEN RE-MANUFACTURED AND TESTED, IN STRICT ACCORDANCE WITH THE ALBERTA ENERGY AND UTILITIES BOARD; CANADIAN ASSOCIATION OF OILWELL DRILLING CONTRACTORS RECOMMENDED PRACTICE - 6.0 OR 7.0, LATEST VERSION LEVEL IV GUIDELINES; TO STANDARDS MEETING OR EXCEEDING ORIGINAL EQUIPMENT MANUFACTURERS' SPECIFICATIONS; AND/OR AMERICAN PETROLEUM INSTITUTE SPECIFICATIONS.

EQUIPMENT OWNER: ENSIGN DRILLING INC.

DESCRIPTION: 11" 3000 PSI SHAFCO RS SINGLE GATE

WORK ORDER NUMBER: 4003698 O.E.M. SERIAL NUMBER: 10S3-16

WEIGHT: 3,482.5 (lbs.) CUSTOMER SERIAL NUMBER: E220 WO#17017

STUD SIZE: 1 3/8" x 6 5/8" PACKING ELEMENT: \_\_\_\_\_

BOLT SIZE: \_\_\_\_\_ TRIM: NACE #N500

RING GASKET: R53 CLOSING VOLUME: 12.59 (L.) 3.25 (US gal.)

OPENING VOLUME: 10.46 (L.) 2.70 (US gal.)

\_\_\_\_\_  
MANAGER, QUALITY ASSURANCE

MARCH 15, 2004  
RE-MANUFACTURED DATE

IN ACCORDANCE WITH CERTIFYING PARTY

NOVEMBER 5, 2004

MARVIN G. MISHIO, P.Eng., C.Mfg.T.

IN-SERVICE DATE

# IRISNDT

## NACE TRIM INSPECTION REPORT

Page 1 of 1

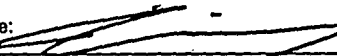
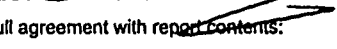
Procedure: IRISNDT NACE TRIM	Job/P.O. #: 3904	IRISNDT #: 136578	Date: FEB. 10 <sup>TH</sup> , 2004
Code: NACE MR0175	Client: OILCO	Location: NISKU, AB	
Item Inspected: WO# 3698 SHAFCO / RS SINGLE / SN 1053-16 / 11" - 3M			

Method: X-RAY FLUORESCENCE EQUIPMENT: NITON	IRISNDT#: 60020	Calibration Date: FEB. 10 <sup>TH</sup> , 2004
HARDNESS EQUIPMENT: KRAUT KRAMER MIC - 10	IRISNDT#: 61021	Calibration Date: FEB. 10 <sup>TH</sup> , 2004
HARDNESS CALIBRATION BLOCK: 188 HB	Rockwell B <input type="checkbox"/>	Rockwell C <input type="checkbox"/> Vickers <input type="checkbox"/> Brinell <input type="checkbox"/> X

Item	Part Description	IRISNDT NACE Number	Brinell Impression		Brinell Bar Hardness	Hardness Value	Number of Readings	Nickel %				Material Identification	Accept	Reject
			Bar	Material				<1	>1	Precision Level or Time	Number of Readings			
A	DOOR ALIGNMENT PLUGS	AR 471				157	4	X		+30	2	4130/4140	X	
B	DOOR ALIGNMENT PLUGS	AR 472				154	4	X		+30	2	4130/4140	X	

REMARKS:

NOTE: The above items have been accepted or rejected under NACE MR0175 requirements using field hardness measurements and compositional analysis, through the use of the above listed equipment, and are therefore subject to the limitations imposed by these methods.

Unit # 242	Kilometres:	Consumables:	Technician: Print: DUANE LAMASH
In 10:30	Out 11:00	Hrs. 0.5	Signature: 
In	Out	Hrs.	Hits: 2
Personnel: D.L.			I am in full agreement with report contents: 
			Client Representative:

5908 - 96 Street Edmonton, Alberta T6E 3G3 437-2022 Fax (780) 436-4873	Barhead Fort McMurray Grande Prairie	(780) 674-3018 (780) 743-1536 (780) 532-2283	Lloydminster Cold Lake Red Deer	(780) 875-6455 (780) 594-1114 (780) 347-1742	5442 - 56 Avenue S.E. Calgary, Alberta T2C 4M6 Ph. (403) 279-6121 Fax (403) 236-0716
--	--	--	---------------------------------------	--	--



**SERVICES & SUPPLY LTD.**

2301 - 8th STREET  
NISKU, ALBERTA T9E 7Z1  
PH. (780) 955-2210 FAX (780) 955-7504

*Three Year Re-manufacture*



OILCO CERTIFIES THAT THIS BLOWOUT PREVENTER HAS BEEN RE-MANUFACTURED AND TESTED, IN STRICT ACCORDANCE WITH THE ALBERTA ENERGY AND UTILITIES BOARD; CANADIAN ASSOCIATION OF OILWELL DRILLING CONTRACTORS RECOMMENDED PRACTICE - 6.0 OR 7.0, LATEST VERSION LEVEL IV GUIDELINES; TO STANDARDS MEETING OR EXCEEDING ORIGINAL EQUIPMENT MANUFACTURERS' SPECIFICATIONS; AND/OR AMERICAN PETROLEUM INSTITUTE SPECIFICATIONS.

EQUIPMENT OWNER: ENSIGN DRILLING INC.

DESCRIPTION: 11" 3000 PSI HYDRIL GK ANNULAR

WORK ORDER NUMBER: 4003816 O.E.M. SERIAL NUMBER: 14160


WEIGHT: 5,300 (lbs.) CUSTOMER SERIAL NUMBER: E197 WO# 17287

STUD SIZE: 1 3/8" x 6 5/8" PACKING ELEMENT: \_\_\_\_\_

BOLT SIZE: 1 3/8" x 10" TRIM: NACE #N2090

RING GASKET: R53 CLOSING VOLUME: 28.79 (L.) 7.43 (US gal.)

OPENING VOLUME: 21.47 (L.) 5.54 (US gal.)

  
MANAGER, QUALITY ASSURANCE  
RE-MANUFACTURED DATE

IN ACCORDANCE WITH CERTIFYING PARTY  
NOVEMBER 12, 2004  
MARVIN G. MISHIO, PEng., C.Mfg.T.  
IN-SERVICE DATE





# Borza Inspections Ltd.

Mailing Address: Box 86, 52313 RR 232, Sherwood Park, Alberta, Canada T8B 1B7  
Shop Address: 5710 - 17 Street, Edmonton, Alberta, Canada T6P 1S4  
Bus: (780) 944-2857 • Fax: (780) 440-2147  
24 Hour Service

ISO 9003 - #97-598

## NACE CERTIFICATION

DATE: May 18, 1999  
CLIENT: Ensign Drilling Inc.  
ATTENTION: Ron Pettapiece  
Borza Inspections Engineer File #E3973  
Borza Inspections NDT Field Report #: N2090/M34996/M34527

Equipment: (1) Hydрил 11" - 3000# GK Annular B.O.P.  
Company No. E197  
Serial No.: 14160

R1635

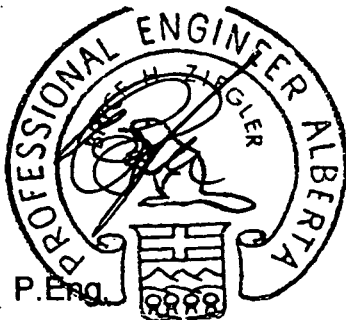
Material: Low alloy steel

NDT: Magnetic particle and visual inspections were performed on all components according to API 16A 2<sup>nd</sup> Edition. No defects were found.

	Chemistry:	Hardness BHN*:
Upper Housing	<1% Ni	178
Lower Housing	<1% Ni	230
Piston	<1% Ni	174

\* Hardness value is average of 2 indications minimum with no 1 greater than 238 BHN.

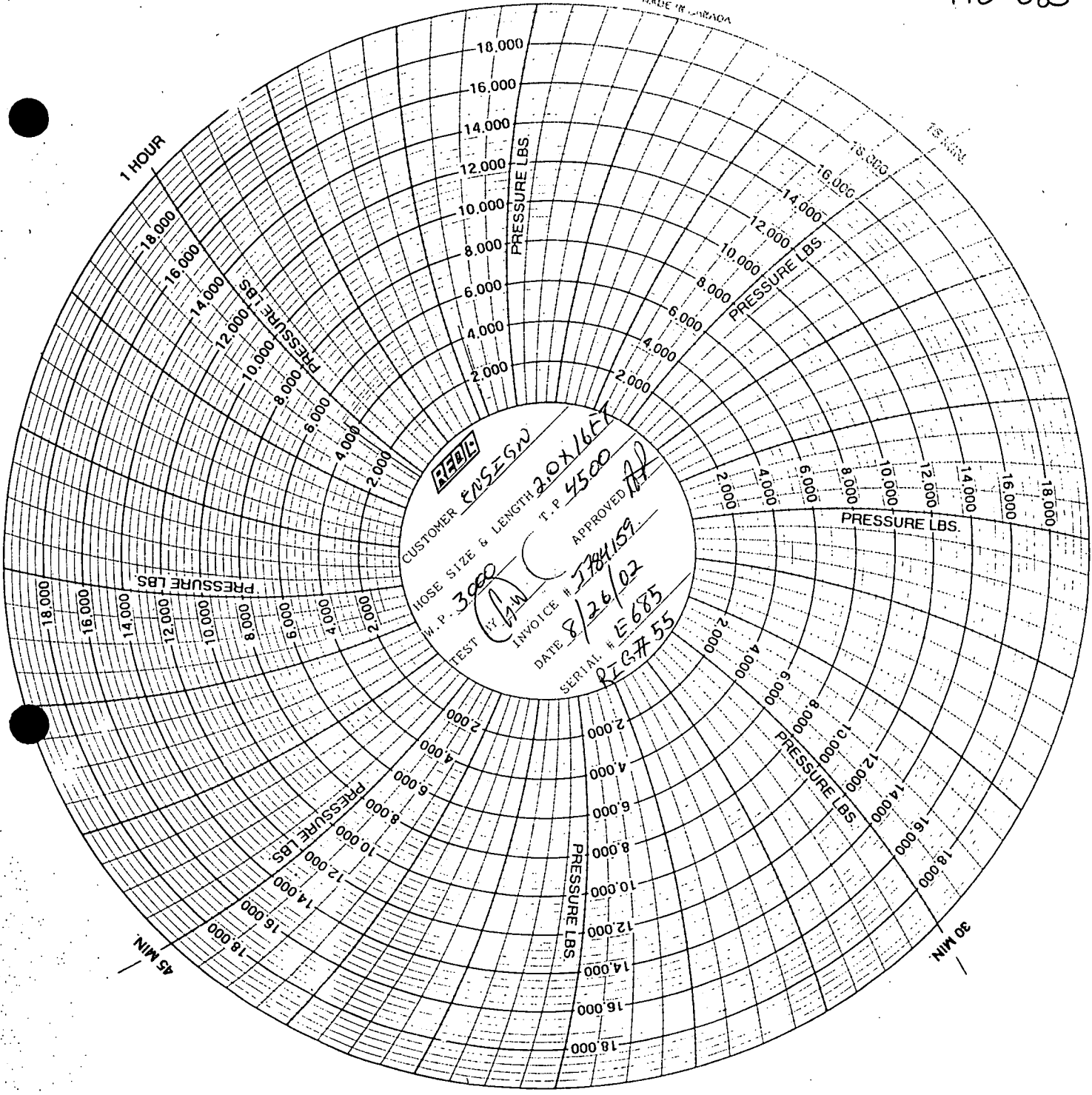
The material in the above equipment complies with NACE standard MR0175-98 and is suitable for sour service. After review of Ensign work order 10327 this equipment meets the service requirements of ERCB IL88-11 (3 year shop servicing) as of May 10, 1999.



Bryce Ziegler, P. Eng.

<b>PERMIT TO PRACTICE</b>	
Borza Inspections Ltd.	
Signature	
Date	May 18, 1999
PERMIT NUMBER: P-5781	
The Association of Professional Engineers, Geologists and Geophysicists of Alberta	

MADE IN CANADA



CUSTOMER **ENSEGN**  
 HOSE SIZE & LENGTH **2.0X16F**  
 T.P. **4500**  
 W.P. **3000**  
 TEST BY **(Signature)**  
 INVOICE # **1784159**  
 DATE **8/26/02**  
 SERIAL # **E685**  
**RIG-755**

1 HOUR

15 MIN

45 MIN

30 MIN

PRESSURE LBS.

PRESSURE LBS.

PRESSURE LBS.

PRESSURE LBS.

PRESSURE LBS.

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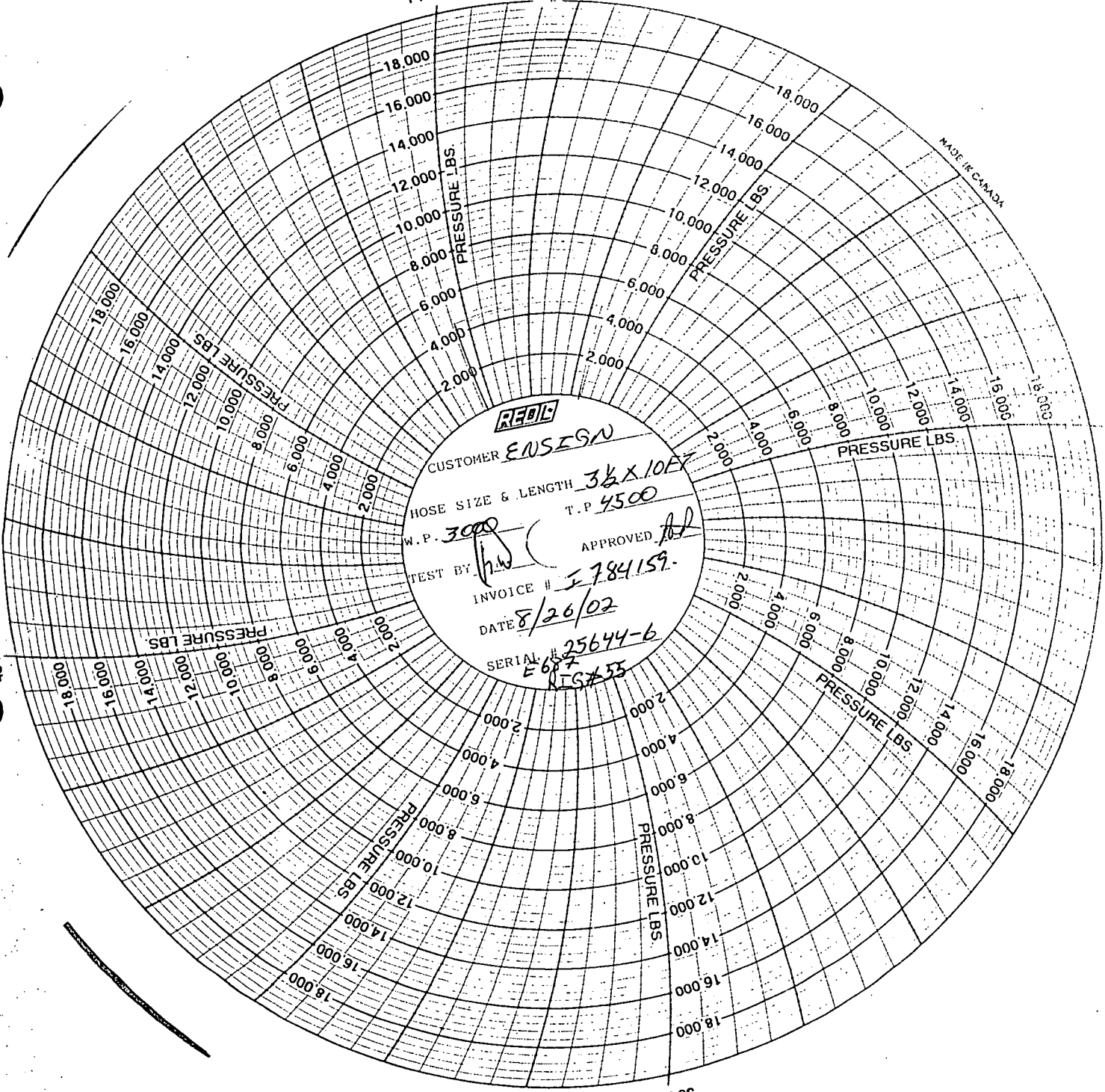
16,000

18,00

HO-687

1 HOUR

MADE IN CANADA



**REAL**

CUSTOMER **ENSEGN**

HOSE SIZE & LENGTH **3/4 X 10 FT**

T.P. **4500**

W.P. **3000**

APPROVED *[Signature]*

TEST BY *[Signature]*

INVOICE # **E 784159**

DATE **8/26/02**

SERIAL # **25644-6**  
**E 687**  
**RIS # 55**

45 MIN

30 MIN







VA-32002

HI-KALIBRE EQUIPMENT LTD.

9816 - 45 AVE.  
EDMONTON, ALBERTA  
T6E 5C5

PHONE: (780) 435-1111 FAX: (780) 436-5164

MANUFACTURER: HI-KALIBRE EQUIPMENT LTD.

At the time of repair materials used in manufacturing EXCEPT BODY:

Meet or exceed the requirements of the American Petroleum Institute  
and the National Association of Corrosion Engineers Standard MR-01-75  
LATEST EDITION N.A.C.E.

"Material Requirements" Sulfide Stress Cracking Resistant Metallic  
material for Oilfield Blowout Prevention Equipment, H2S TRIM.

CUSTOMER: ENSIGN DRILLING LTD.

VALVE DESCRIPTION: 4-1/2" LOWER KELLYCOCK - HI-KAL  
10,000 P.S.I. WORKING PRESSURE

SERIAL #: 4150-120-XH  
MANUFACTURING LOT #: 51569  
RIG #: E32002 PI  
SALES ORDER #: 51569  
CUSTOMER PO #: 27598  
OWNER'S SERIAL #:  
DATE OF MANUFACTURE: JUL 14, 1999

VALVE COMPONENTS	PART #	LOT #
4-1/2 HI-KAL KELLYCOCK SEAL KIT	4150-SK	

Hi-Kalibre Equipment



Per Glen Rabby, President G/M

VA-32707

### D-Valves Ltd.

6133 -97 St.

Edmonton, Alberta T6E 3J3

Phone (403) 436-5353 · Fax (403) 436-7653

We certify that all inside blow-out preventers, kellycocks and valves supplied on the work order listed below, are manufactured to meet all requirements in accordance with :

American Petroleum Institute (A.P.I.)

National Association of Corrosion Engineers (NACE) MR-01-75 specifications

Alberta Recommended Practices (A.R.P.)

All valves have been pressure tested and charted.

Customer: Ensign Drilling  
Work Order # 12089  
Serial # D4250U - 156  
E32707

Date : Mar 08/2000  
Size: 6 5/8 Reg LH D-Valve Kellycock, NACE, 2 pce  
Pressure: 10,000 PSI

Part	Number	Material	Part	Number	Material
Body & Sub	D4250	4145 ARP	Ball	D4250-B	17-4 PH
Stem	D4250U-S	Monel	Stem Bushing	D4250U-SB	17-4 PH
Lower Seat	D4250-LS	Bronze	Upper Seat	D4250-US	Bronze
Stop Ring	D4250-SR	4140	Spring		750X Inconel

Authorized Signature: D Chase





VA-3296

### D-Valves Ltd.

6133 -97st.

Edmonton, Alberta T6E 3J3

Phone (403) 436-5353 Fax (403) 436-7653

We certify that all inside blow-out preventers, kellycocks and valves supplied on the work order listed below, are manufactured to meet all requirements in accordance with :

American Petroleum Institute (A.P.I.)

National Association of Corrosion Engineers (NACE) MR-01-75 specifications

Alberta Recommended Practices (A.R.P.)

All valves have been pressure tested and charted.

Customer : Ensign Drilling

Work Order # 19438

Serial # D4000XH-20

E32969

Date : March 23, 2001

Size : 4 1/2 XH D-Valve Kellycock, NACE, 2 pce

Pressure : 10,000 PSI

Part	Number	Material	Part	Number	Material
Body & Sub	D4000XH	4145 ARP	Ball	D3500IF-B	17-4 PH
Stem	D3500IF-S	Monel	Stem Bushing	D3500IF-SB	17-4 PH
Lower Seat	D3500IF-LS	Bronze	Upper Seat	D3500IF-US	Bronze
Stop Ring	D3500IF-SR	4140	Spring		750X Inconel

Authorized Signature :



VA-260378

### D-Valves Ltd.

6133 -97 Street  
Edmonton, Alberta T6E 3J3  
Phone (780) 436-5353 Fax (780) 438-7906

We certify that all inside blow-out preventers, kellycocks and valves supplied on the work order listed below, are manufactured to meet all requirements in accordance with :

- American Petroleum Institute (A.P.I.)
- National Association of Corrosion Engineers (NACE) MR-01-75 specifications
- Alberta Recommended Practices (A.R.P.)

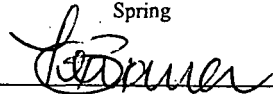
All valves have been pressure tested and charted.

**Customer: Ensign Drilling**  
**Work Order # 31157**  
**Serial # D4250XH-550**  
**E260378**

**Date: February 18, 2003**  
**Size: 4 1/2 XH D-Valve Kellycock, NACE, 2 pce**  
**Pressure: 10,000 PSI**

<u>Part</u>	<u>Number</u>	<u>Material</u>	<u>Part</u>	<u>Number</u>	<u>Material</u>
Body & Sub	D4250XH	4140	Ball	D4250-B	17-4 PH
Stem	D4250-S	Monel	Stem Bushing	D4250-SB	17-4 PH
Lower Seat	D4250-LS	Bronze	Upper Seat	D4250-US	Bronze
Stop Ring	D4250-SR	4140	Spring		750X Inconel

Authorized Signature: \_\_\_\_\_









VA-31622



# Borza Inspections Ltd.

Mailing Address: Box 86, 52313 RR 232, Sherwood Park, Alberta, Canada T8B 1B7  
Shop Address: 5710 - 17 Street, Edmonton, Alberta, Canada T6P 1S4  
Bus: (780) 944-2857 • Fax: (780) 440-2147  
24 Hour Service

ISO 9003 - #97-598

## NACE CERTIFICATION

**DATE:** April 15, 1999  
**CLIENT:** A.P.I. Valve Services Ltd./Ensign Drilling Inc.  
**Borza Inspections Engineer File #E3928**  
**Borza Inspections NDT Field Report #: N2071**

**Equipment:** (1) Barton 3 1/8" - 3000# Gate Valve  
Company No. E31622

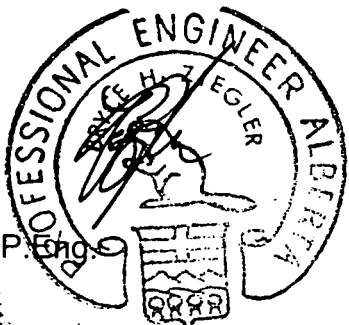
**Material:** Low alloy steel

	Chemistry:	Hardness BHN*:
Body	<1% Ni	211
Bonnet	<1% Ni	197
Stem	<1% Ni	225
1/2 Gate #1	17-4PHSS	228**
1/2 Gate #2	17-4PHSS	241**
Seat #1	17-4PHSS	219**
Seat #2	17-4PHSS	230**

\* Hardness value is average of 2 indications minimum with no 1 greater than 238 BHN.  
\*\*This material is acceptable at these hardness levels.

The material in the above equipment complies with NACE standard MR0175-98.

Bryce Ziegler, P. Eng.



**PERMIT TO PRACTICE**  
Borza Inspections Ltd.

Signature: *[Signature]*  
Date: *APRIL 15/99*

PERMIT NUMBER: P-5781

The Association of Professional Engineers,  
Geologists and Geophysicists of Alberta







**PACIFIC VALVE SERVICES INC.**

8106 Davies Road, Edmonton, Alberta T6E 4N2  
24 Hr. Tel.: (780) 463-3972 • Fax: (780) 466-0492  
Email: pacvalve@compusmart.ab.ca  
Website: www.pacificvalve.com

VIA-32678

**NACE Certification Inspection Report**

Charged to: ENSIGN DRILLING Item # \_\_\_\_\_  
Date FEBRUARY 3, 2000

P.O.# 42257 Rig # \_\_\_\_\_ Location OUR SHOP

Equipment Description: 2 1/16" 5000# JMP "EE" GATE VALVE

Model# \_\_\_\_\_ Serial # E-32678 98048 Our W.O # 21380

Remarks: Inspect for Sour Service

Tests (BHN) Body: 235-235  
Bonnet: 217-217  
Flange: 182-182  
Flange: 156-156

Material: NEW VALVE - QUALITY CERTIFICATE & MILL TEST REPORT ATTACHED

Nickel Content: body: \_\_\_\_\_ % Engineering: JINHU  
bonnet: \_\_\_\_\_ % (Report Attached)

Trim: OEM NACE OR EQUIVALENT BY PART OR HEAT NUMBER

Valve Conforms to NACE MR-01-75 at time of inspection.

**Test Procedure**

Pin Type (BHN) Hardness Tester. Nickel content checked by chemical analysis.  
Trim: Identified by P/N or Mill Certificate on replacement Parts.

Reviewed By: MICHAEL E. GATES Performed By: JINHU

\_\_\_\_\_  
Q.A. MANAGER



# PACIFIC VALVE SERVICES INC.

8106 Davies Road, Edmonton, Alberta T6E 4N2  
24 Hr. Tel.: (780) 463-3972 • Fax: (780) 466-0492  
Email: pacvalve@compusmart.ab.ca  
Website: www.pacificvalve.com

VA-32679

## NACE Certification Inspection Report

Item # \_\_\_\_\_  
Charged to: ENSIGN DRILLING Date: FEBRUARY 3, 2000

P.O.# 42257 Rig # \_\_\_\_\_ Location OUR SHOP

Equipment Description: 2 1/16" 5000# JMP "EE" GATE VALVE

Model# \_\_\_\_\_ Serial # E-32679 98066 Our W.O # 21380

Remarks: Inspect for Sour Service

Tests (BHN) Body: 235-235  
Bonnet: 217-217  
Flange: 156-156  
Flange: 142-142

Material: NEW VALVE - QUALITY CERTIFICATE & MILL TEST REPORT ATTACHED

Nickel Content: body: \_\_\_\_\_ % Engineering: JINHU  
bonnet: \_\_\_\_\_ % (Report Attached)

Trim: OEM NACE OR EQUIVALENT BY PART OR HEAT NUMBER

Valve Conforms to NACE MR-01-75 at time of inspection.

### Test Procedure

Pin Type (BHN) Hardness Tester. Nickel content checked by chemical analysis.  
Trim: Identified by P/N or Mill Certificate on replacement Parts.

Reviewed By: MICHAEL E. GATES Performed By: JINHU

  
\_\_\_\_\_  
Q.A. MANAGER



**PACIFIC VALVE SERVICES INC.**

8106 Davies Road, Edmonton, Alberta T6E 4N2  
24 Hr. Tel.: (780) 463-3972 • Fax: (780) 466-0492  
Email: pacvalve@compusmart.ab.ca  
Website: www.pacificvalve.com

VA-32680

**NACE Certification Inspection Report**

Charged to: ENSIGN DRILLING Item # \_\_\_\_\_  
Date FEBRUARY 3, 2000

P.O.# 42257 Rig # \_\_\_\_\_ Location OUR SHOP

Equipment Description: 2 1/16" 5000# JMP "EE" GATE VALVE

Model# \_\_\_\_\_ Serial # E-32680 981012 Our W.O # 21380

Remarks: Inspect for Sour Service

Tests (BHN) Body: 222-222  
Bonnet: 234-234  
Flange: 142-142  
Flange: 142-142

Material: NEW VALVE - QUALITY CERTIFICATE & MILL TEST REPORT ATTACHED

Nickel Content: body: \_\_\_\_\_ % Engineering: JINHU  
bonnet: \_\_\_\_\_ % (Report Attached)

Trim: OEM NACE OR EQUIVALENT BY PART OR HEAT NUMBER

Valve Conforms to NACE MR-01-75 at time of inspection.

**Test Procedure**

Pin Type (BHN) Hardness Tester. Nickel content checked by chemical analysis.

Trim: Identified by P/N or Mill Certificate on replacement Parts.

Reviewed By: MICHAEL E. GATES Performed By: JINHU

Q.A. MANAGER



**PACIFIC VALVE SERVICES INC.**

8106 Davies Road, Edmonton, Alberta T6E 4N2  
24 Hr. Tel.: (780) 463-3972 • Fax: (780) 466-0492  
Email: pacvalve@compusmart.ab.ca  
Website: www.pacificvalve.com

VA-32681

**NACE Certification Inspection Report**

Item # \_\_\_\_\_

Charged to: ENSIGN DRILLING Date FEBRUARY 3, 2000

P.O.# 42257 Rig # \_\_\_\_\_ Location OUR SHOP

Equipment Description: 2 1/16" 5000# JMP "EE" GATE VALVE

Model# \_\_\_\_\_ Serial # E-32681 981010 Our W.O # 21380

Remarks: Inspect for Sour Service

Tests (BHN)	Body:	<u>222-222</u>
	Bonnet:	<u>225-225</u>
	Flange:	<u>156-156</u>
	Flange:	<u>156-156</u>

Material: NEW VALVE - QUALITY CERTIFICATE & MILL TEST REPORT ATTACHED

Nickel Content:	body:	<u>        </u>	%	Engineering:	<u>JINHU</u>
	bonnet:	<u>        </u>	%		<u>(Report Attached)</u>

Trim: OEM NACE OR EQUIVALENT BY PART OR HEAT NUMBER

Valve Conforms to NACE MR-01-75 at time of inspection.

**Test Procedure**

Pin Type (BHN) Hardness Tester. Nickel content checked by chemical analysis.

Trim: Identified by P/N or Mill Certificate on replacement Parts.

Reviewed By: MICHAEL E. GATES Performed By: JINHU

\_\_\_\_\_  
Q.A. MANAGER



**PACIFIC VALVE SERVICES INC.**

8106 Davies Road, Edmonton, Alberta T6E 4N2  
24 Hr. Tel.: (780) 463-3972 • Fax: (780) 466-0492  
Email: pacvalve@compusmart.ab.ca  
Website: www.pacificvalve.com

VA-32682

**NACE Certification Inspection Report**

Charged to: ENSIGN DRILLING Item # \_\_\_\_\_  
Date FEBRUARY 3, 2000

P.O.# 42257 Rig # \_\_\_\_\_ Location OUR SHOP

Equipment Description: 2 1/16" 5000# JMP "EE" GATE VALVE

Model# \_\_\_\_\_ Serial # E-32682 981000 Our W.O # 21380

Remarks: \_\_\_\_\_ Inspect for Sour Service \_\_\_\_\_

Tests (BHN) Body: 222-222  
Bonnet: 234-234  
Flange: 156-156  
Flange: 156-156

Material: NEW VALVE - QUALITY CERTIFICATE & MILL TEST REPORT ATTACHED

Nickel Content: body: \_\_\_\_\_ % Engineering: JINHU  
bonnet: \_\_\_\_\_ % (Report Attached)

Trim: OEM NACE OR EQUIVALENT BY PART OR HEAT NUMBER

Valve Conforms to NACE MR-01-75 at time of inspection.

**Test Procedure**

Pin Type (BHN) Hardness Tester. Nickel content checked by chemical analysis.  
Trim: Identified by P/N or Mill Certificate on replacement Parts.

Reviewed By: MICHAEL E. GATES Performed By: JINHU

\_\_\_\_\_  
Q.A. MANAGER



**PACIFIC VALVE SERVICES INC.**

8106 Davies Road, Edmonton, Alberta T6E 4N2  
24 Hr. Tel.: (780) 463-3972 • Fax: (780) 466-0492  
Email: pacvalve@compusmart.ab.ca  
Website: www.pacificvalve.com

VA-32683

**NACE Certification Inspection Report**

Charged to: ENSIGN DRILLING Item # \_\_\_\_\_ Date FEBRUARY 3, 2000

P.O.# 42257 Rig # \_\_\_\_\_ Location OUR SHOP

Equipment Description: 2 1/16" 5000# JMP "EE" GATE VALVE

Model# \_\_\_\_\_ Serial # E-32683 981003 Our W.O # 21380

Remarks: Inspect for Sour Service

Tests (BHN) Body: 222-222  
Bonnet: 234-234  
Flange: 142-142  
Flange: 156-156

Material: NEW VALVE - QUALITY CERTIFICATE & MILL TEST REPORT ATTACHED

Nickel Content: body: \_\_\_\_\_ % Engineering: JINHU  
bonnet: \_\_\_\_\_ % (Report Attached)

Trim: OEM NACE OR EQUIVALENT BY PART OR HEAT NUMBER

Valve Conforms to NACE MR-01-75 at time of inspection.

Test Procedure

Pin Type (BHN) Hardness Tester. Nickel content checked by chemical analysis.  
Trim: Identified by P/N or Mill Certificate on replacement Parts.

Reviewed By: MICHAEL E. GATES

Performed By: JINHU

  
Q.A. MANAGER



**PACIFIC VALVE SERVICES INC.**

8106 Davies Road, Edmonton, Alberta T6E 4N2  
24 Hr. Tel.: (780) 463-3972 • Fax: (780) 466-0492  
Email: pacvalve@compusmart.ab.ca  
Website: www.pacificvalve.com

VA-32684

**NACE Certification Inspection Report**

Charged to: ENSIGN DRILLING Item # \_\_\_\_\_  
Date FEBRUARY 3, 2000

P.O.# 42257 Rig # \_\_\_\_\_ Location OUR SHOP

Equipment Description: 2 1/16" 5000# JMP "EE" GATE VALVE

Model# \_\_\_\_\_ Serial # E-32684 981001 Our W.O # 21380

Remarks: Inspect for Sour Service

Tests (BHN) Body: 222-222  
Bonnet: 225-225  
Flange: 182-182  
Flange: 156-156


Material: NEW VALVE - QUALITY CERTIFICATE & MILL TEST REPORT ATTACHED

Nickel Content: body: \_\_\_\_\_ % Engineering: JINHU  
bonnet: \_\_\_\_\_ % (Report Attached)

Trim: OEM NACE OR EQUIVALENT BY PART OR HEAT NUMBER

Valve Conforms to NACE MR-01-75 at time of inspection.

Test Procedure  
Pin Type (BHN) Hardness Tester. Nickel content checked by chemical analysis.  
Trim: Identified by P/N or Mill Certificate on replacement Parts.

Reviewed By: MICHAEL E. GATES Performed By: JINHU  
  
Q.A. MANAGER



## ONSHORE DRILLING RIG INSPECTION REPORT

Well Name: \_\_\_\_\_  
 Operator: \_\_\_\_\_ Licence #: \_\_\_\_\_  
 Drilling Rig: Ensign 55  
 Spud/Re-entry Date: Feb 22 21:45  
 Inspection Date: Feb 24 Inspected by: \_\_\_\_\_

S	US	NA	Item	Reference
<b>Well Authorizations</b>				
			Well licence posted	9(1)(d)
			Drilling and Production Regulations available	4(a) and (b)
			BOP certification records available for inspection	35(3)
			Personnel qualifications summary available	160(4)
X			Personnel hydrogen sulphide training certifications available	159(3) and (4)
<b>Rig Safety - General</b>				
			Emergency Response Plan current and available	155(a) and (b)
			Adequate quantities of drilling consumables on site	31(4)(c)
			Mud volume totalizer alarm operational	31(5)(a)
			Trip tank gauge or readout operational	31(5)(b)
			Mud gas detectors operational	31(5)(e)
			Horn or signaling system operational	156(1)(b)(vi)
			Defective equipment procedures available and repairs recorded	161
			General housekeeping satisfactory	
X			Rig lighting satisfactory	
<b>Fire Precautions</b>				
			Internal combustion engines within 25m of vapours have exhaust shielded	157(1)
			Diesel engine shutoffs operational and tested weekly	157(2) - (4)
			Liquid fuel storage at least 25m from well	157(5)
			No open flames within 50m of well	158(a)
			Boilers at least 25m from well	158(e)
			All electrical wiring within 25m of well explosion-proof	158(k)
X			No explosives stored within 150m of well	158(l)



<b>Personal Safety</b>			
X		Yukon OHS regulations available	
<b>Well Control Equipment</b>			
		Equipment pressure ratings & configuration in accordance with well classification	<b>36(2)(a)</b>
	X	BOP stack securely installed with adequate lighting	<b>34(1) and (2)</b>
	X	Well status, well control data and procedures up to date and posted	<b>34(3)(a) and (b)</b>
	∧	Maximum allowable casing pressure correct and posted at remote choke	<b>40(2)(a)</b>
		Driller's control panel labeled, accessible and operational	<b>37(a)</b>
		Auxiliary control panel >20m from well & operational	<b>37(b)</b>
		Accumulator system meets cycle time and pressure specifications	<b>38(b)</b>
		Hydraulic lines equipped with fire-resistant sleeving	<b>38(c)</b>
		Nitrogen system minimum pressure 12,500 kPa	<b>38(2)(b)</b>
	X	Working spools configured with proper valves and pressure ratings	<b>39</b>
		Kill and relief lines meet specifications	<b>40(1)</b>
		Choke manifold pressure ratings and configuration in accordance with well classification	<b>41(1) through (6)</b>
		Choke manifold enclosure >25m from wellhead and with adequate lighting, ventilation and two exits	<b>41(7) and (8)</b>
	X	Upper and lower safety valves installed and manually operable	<b>42(1)(a) and (b)</b>
		Stabbing valve and key for each string connection type available and properly maintained; pressure rating meets or exceeds stack rating	<b>42(1)(c) and 42(2)</b>
	X	Flare line(s) properly sized and installed	<b>43(1) and (3)</b>
		All BOP equipment certified for sour service	<b>44</b>
		Pipe rams matching casing installed when running casing	<b>45</b>
	X	BOP system pressure tested at required intervals and results recorded	<b>47(2)(a)</b>
	∧	BOP system function tested at required intervals and times	<b>48(a) and (b)</b>
<b>Operating Practices</b>			
	X	Casing pressure tests carried out as required	<b>61</b>
	X	Formation leak-off test performed <10m below casing shoe	<b>63</b>
		Drilling parameters recording system operational at all times	<b>64(1)(a)</b>
	X	Casing filled every 5 stands (DP) or 1 stand of collars	<b>64(5)</b>
	X	Calculated and actual fill-up volumes properly recorded	<b>64(6)</b>
		Deviation surveys made at least every 150m or as directed in Licence	<b>65(1)</b>
		BOP drills conducted at least each tour and properly recorded	<b>49</b>
		Safety meetings properly recorded	
		Tour sheets properly completed with all required information	<b>181(1)</b>
		CAODC Rig BOP and Equipment Checklist completed and satisfactory	

Unless otherwise stated, all quoted regulations refer to the *Yukon Oil and Gas Act*, Drilling and Production Regulations.



**WELL DATA - MATERIAL USAGE AND COST ESTIMATE**

**C. CONTINGENCY MATERIALS:**

<i>Product</i>	<i>Unit Size</i>	<i>Unit Cost</i>	<i>Estimated Units</i>	<i>Estimated Cost</i>
S.A.P.P.	22.68 kg	\$56.33	8	\$450.64
FEDERAL UNTREATED	40.00 kg	\$6.96	400	\$2,784.00
DRILLING DETERGENT	18.93 L	\$41.32	10	\$413.20
SAWDUST	sack	\$3.15	400	\$1,260.00
FED SEAL	18.14 kg	\$25.00	100	\$2,500.00
PIPELAX	208.18 L	\$550.00	1	\$550.00
FLAKE	11.34 kg	\$50.93	60	\$3,055.80
MICA (F.M.C.)	25.00 kg	\$32.29	60	\$1,937.40
DESCO CF	11.34 kg	\$62.93	20	\$1,258.60
MAGMA FIBRE	13.60 kg	\$65.04	70	\$4,552.80
WALNUTS (F.M.C.)	22.68 kg	\$37.04	60	\$2,222.40
MIX II	11.34 kg	\$31.48	75	\$2,361.00
CALCIUM CARBONATE	25 kg	\$3.30	300	\$990.00
BARITE	40.00 kg	\$13.08	1,200	\$15,696.00
FED ZAND (XCD)	11.34 kg	\$236.84	10	\$2,368.40
<b>TOTAL ESTIMATED CONTINGENCY COST:</b>				<b>\$42,400.24</b>

These contingency products are listed as items required for unforeseen problems such as lost circulation, gas kicks etc.

**WELL DATA - MATERIAL USAGE AND COST ESTIMATE**

**C. CONTINGENCY MATERIALS:**

<i>Product</i>	<i>Unit Size</i>	<i>Unit Cost</i>	<i>Estimated Units</i>	<i>Estimated Cost</i>
S.A.P.P.	22.68 kg	\$56.33	8	\$450.64
FEDERAL UNTREATED	40.00 kg	\$6.96	400	\$2,784.00
DRILLING DETERGENT	18.93 L	\$41.32	10	\$413.20
SAWDUST	sack	\$3.15	400	\$1,260.00
FED SEAL	18.14 kg	\$25.00	100	\$2,500.00
PIPELAX	208.18 L	\$550.00	1	\$550.00
FLAKE	11.34 kg	\$50.93	60	\$3,055.80
MICA (F.M.C.)	25.00 kg	\$32.29	60	\$1,937.40
DESCO CF	11.34 kg	\$62.93	20	\$1,258.60
MAGMA FIBRE	13.60 kg	\$65.04	70	\$4,552.80
WALNUTS (F.M.C.)	22.68 kg	\$37.04	60	\$2,222.40
MIX II	11.34 kg	\$31.48	75	\$2,361.00
CALCIUM CARBONATE	25 kg	\$3.30	300	\$990.00
BARITE	40.00 kg	\$13.08	1,200	\$15,696.00
FED ZAN D (XCD)	11.34 kg	\$236.84	10	\$2,368.40
<b>TOTAL ESTIMATED CONTINGENCY COST:</b>				<b>\$42,400.24</b>

These contingency products are listed as items required for unforeseen problems such as lost circulation, gas kicks etc.



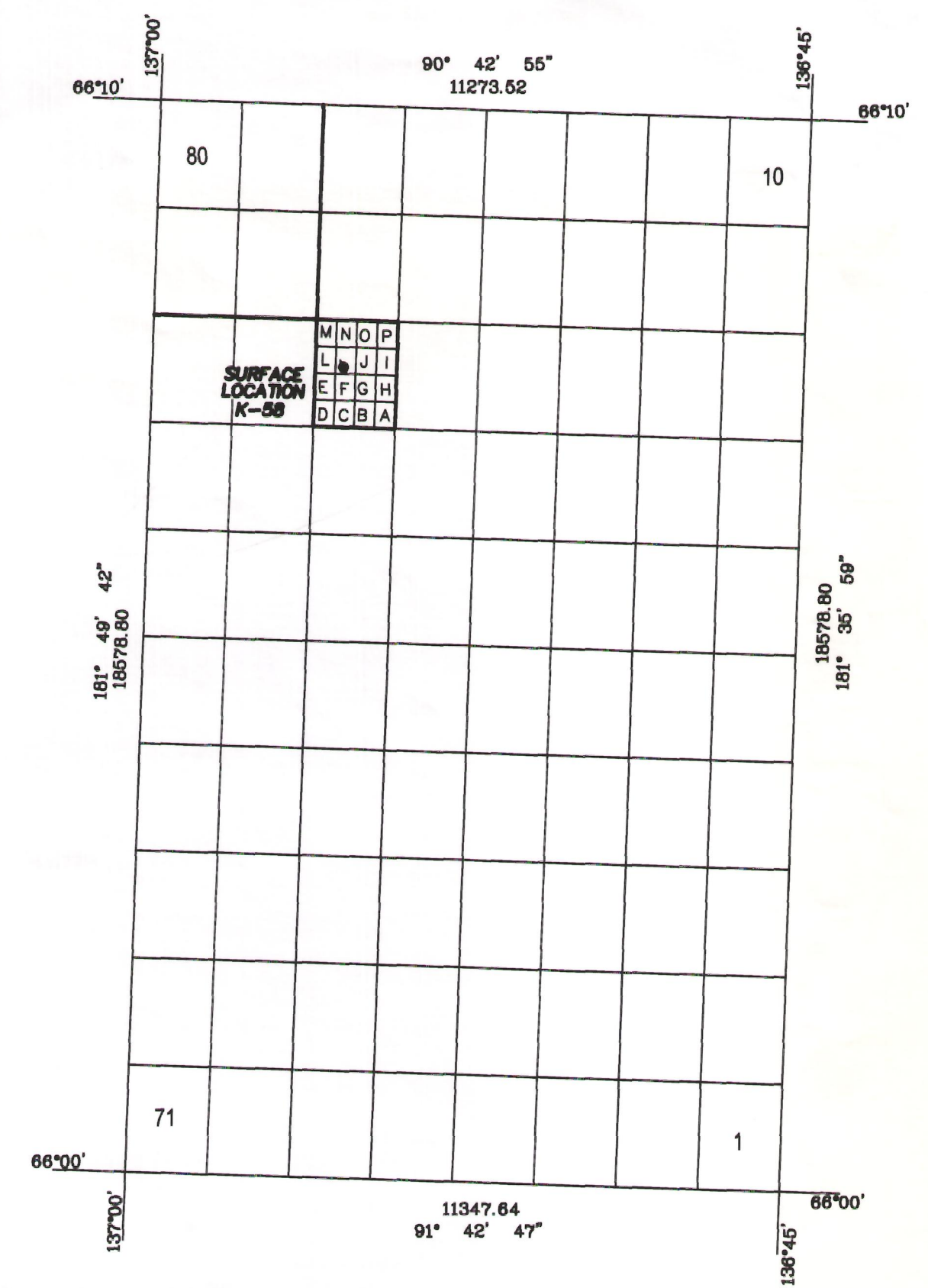




LOCATION MAP DETAIL  
SCALE : 1 : 125 000

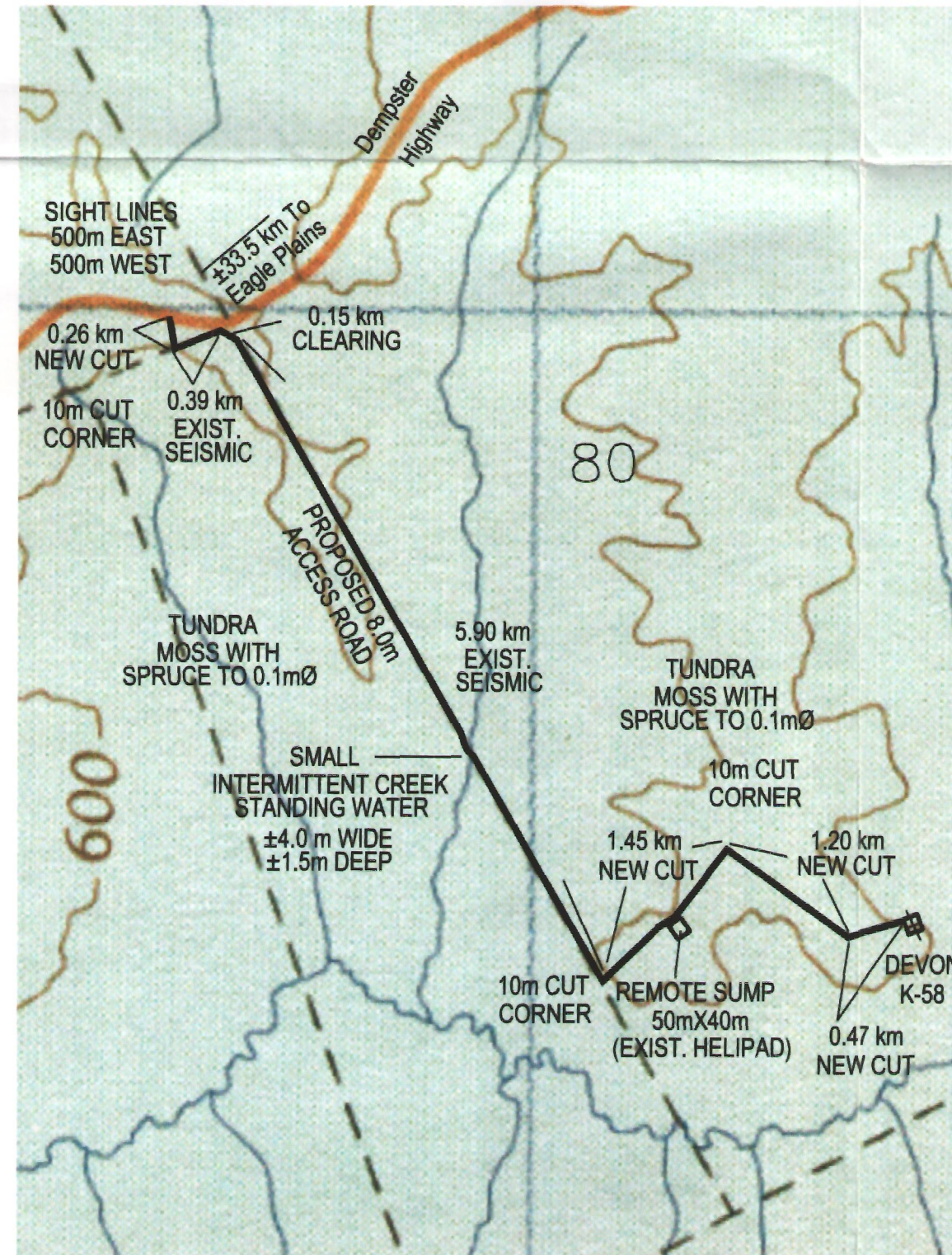
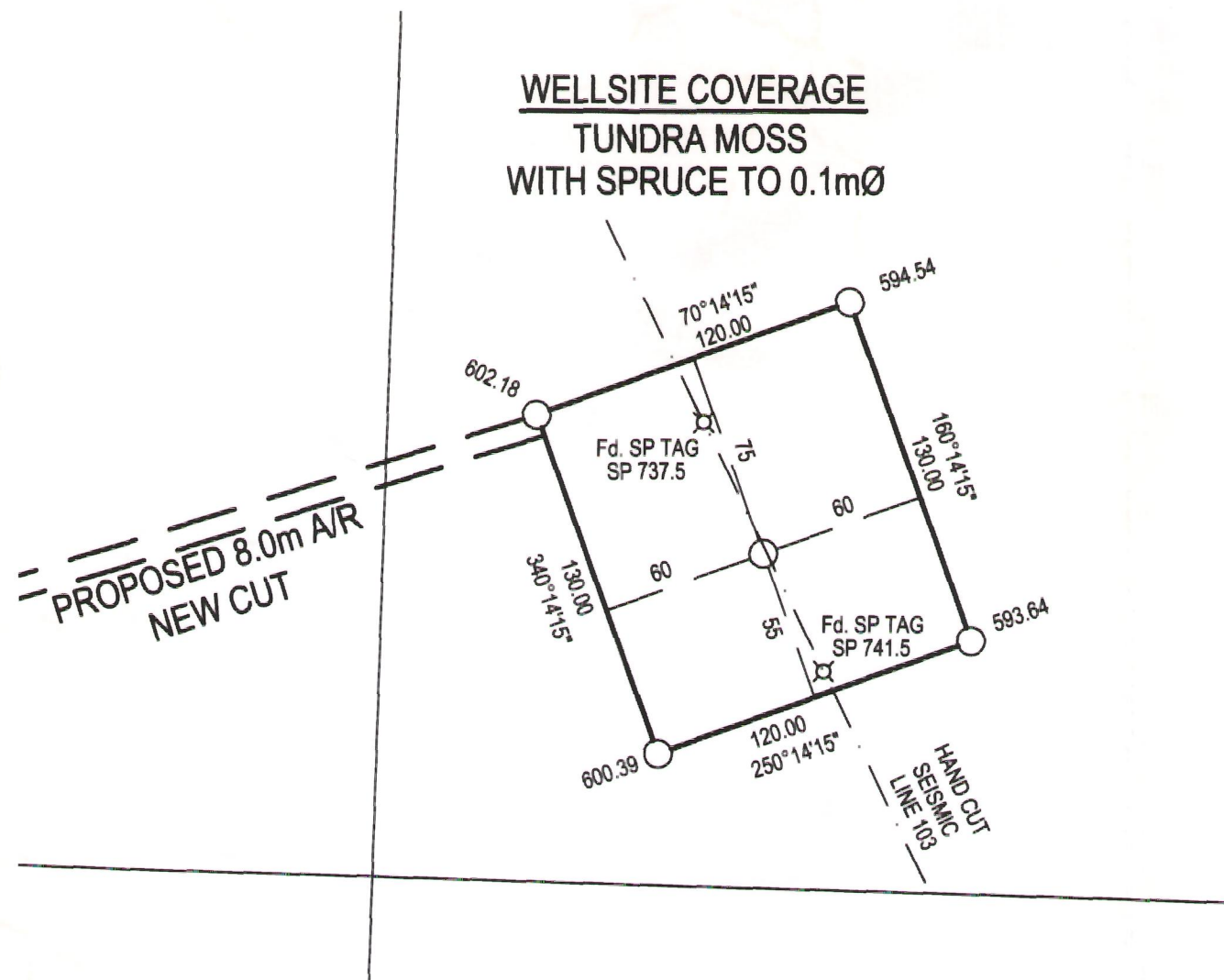
TABLE OF CO-ORDINATES

STATION	U.T.M. ZONE 10, C.M. 123* (NAD 27) SEISMIC			U.T.M. ZONE 10, C.M. 123* (NAD 27) CHALLENGER GEOMATICS			DELTA			U.T.M. ZONE 10, C.M. 123* (NAD 83) CHALLENGER GEOMATICS		
	NORTHING	EASTING	ELEVATION	NORTHING	EASTING	ELEVATION	dN	dE	dZ	NORTHING	EASTING	ELEVATION
CONTROL MONUMENTS												
Fd. SP 737.5	7335182.00	413070.65	602.40	7335183.49	413078.53	599.27	1.49	7.88	-3.13	7335353.43	412977.40	599.27
Fd. SP 741.5	7335086.80	413097.45	602.50	7335093.57	413122.01	597.36	6.77	24.56	-5.14	7335263.52	413020.87	597.36

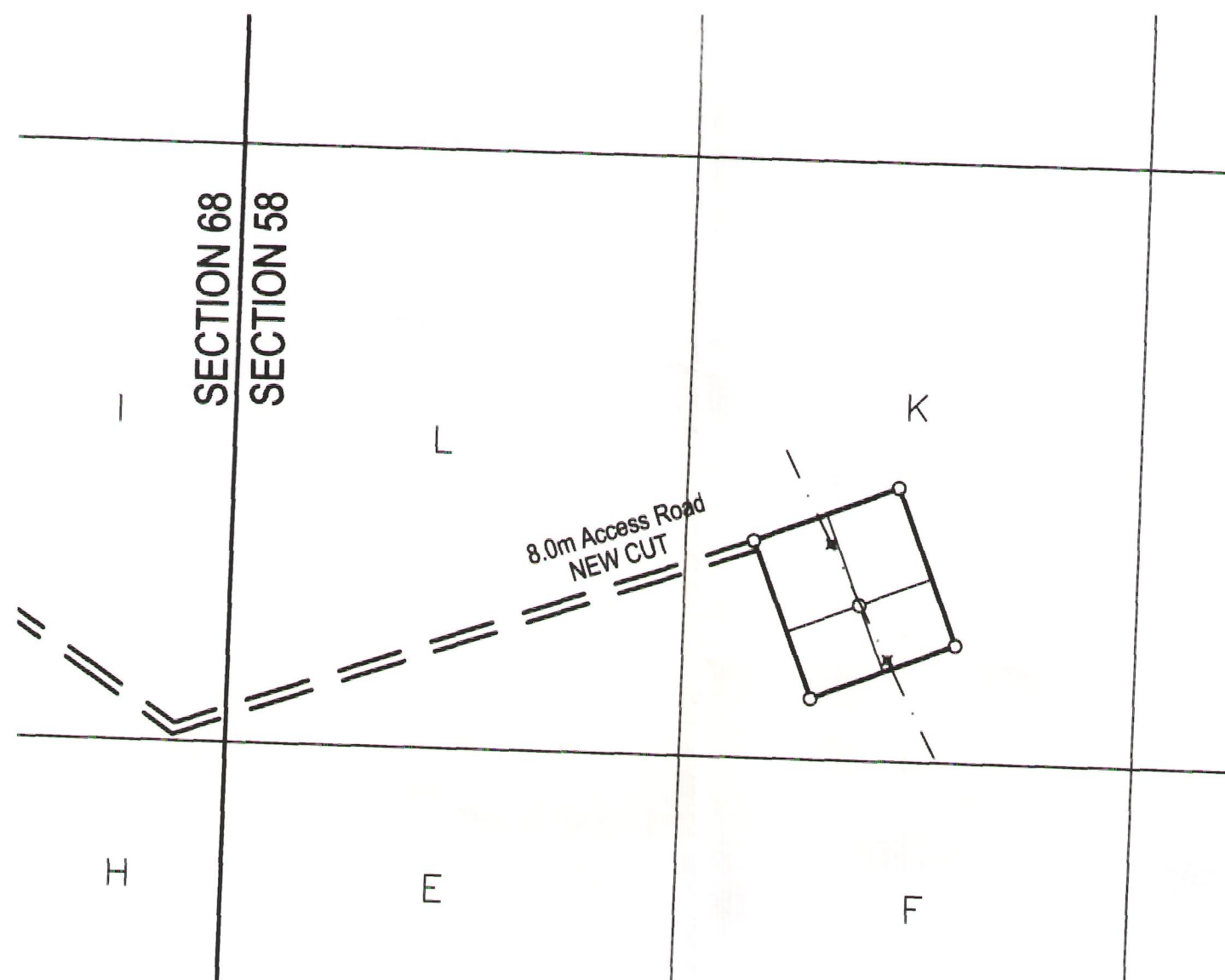


GRID AREA 66°10', 136°45'  
SCALE : 1 : 100 000

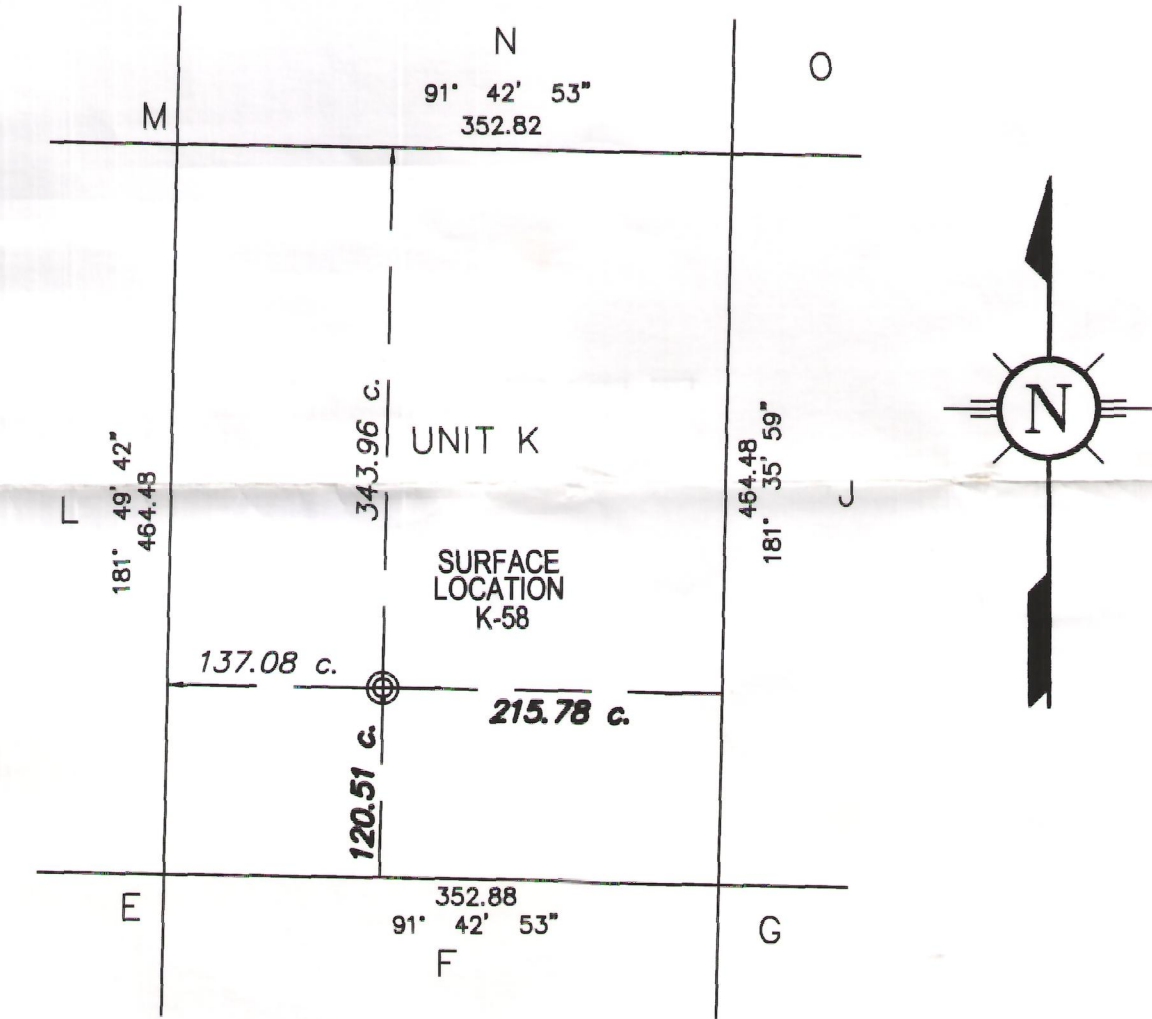
WELLSITE DETAIL  
SCALE : 1 : 2500



ACCESS ROAD DETAIL  
SCALE : 1 : 50 000



SECTION DETAIL  
SCALE : 1 : 5000



SURFACE UNIT DETAIL  
SCALE : 1 : 5000

ACCESS ROAD AREA TABLE			
ROAD	LENGTH	WIDTH	AREA
NEW CUT	2.719 ha.	8.0m	2.719 ha.
EXISTING	5.152 ha.	8.0m	5.152 ha.
TOTAL			7.871 ha.

**DEVON CANADA CORPORATION**  
**PLAN SHOWING SURVEY**  
 OF  
**DEVON EAGLE PLAINS K-58**  
**IN UNIT K, SECTION 58**  
**GRID AREA 66°10', 136°45'**  
 2004  
 YUKON TERRITORY JOE ILES C.L.S.

<p><b>GEOGRAPHIC CO-ORDINATES</b> AT WELL CENTRE (NAD 27)</p> <p>SURFACE LOCATION  <b>LAT. : 66°07'34.8" N.</b>  <b>LONG. : 136°55'27.6" W.</b></p>	<p><b>UTM CO-ORDINATES</b> AT WELL CENTRE (NAD 27)          SURFACE LOCATION  <b>N. 7335136.08</b>  <b>E. 413100.12</b></p> <p><b>AREAS</b>          WELL SITE = 1.56 ha.          ACCESS ROAD = 7.87 ha.          REMOTE SUMP = 0.20 ha.  <b>TOTAL AREA = 9.63 ha.</b></p>								
<p><b>LEGEND</b>          Lands to be Dealt with Shown thus.....          Unless otherwise shown          Bearings are UTM grid (NAD 83) and are          referred through C.M. 135° w.          Distances are in metres and decimals thereof.          Temporary traverse points shown thus..... Δ          Well centre shown thus..... ⊙          Control Monument shown thus..... ⊙</p>	<p><b>ELEVATIONS</b>          ON GROUND AT WELL LOCATION = 599.29m</p> <p>OPERATOR:  <b>DEVON CANADA CORPORATION</b></p> <p style="text-align: right;">WITNESS</p>								
<p>REVISION NOTES:</p> <table border="1" style="width: 100%;"> <thead> <tr> <th>No.</th> <th>DATE</th> <th>DISCUSSION</th> <th>By</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		No.	DATE	DISCUSSION	By				
No.	DATE	DISCUSSION	By						
<p>SCALE: <b>AS SHOWN</b></p>	<p>DRAWN: <b>E.M./R.R./J.I./GM</b></p>								
<p>DATE: <b>12/04</b></p>	<p>CALC NO.: <b>14862</b>          ACAD NO.: <b>14862W01</b></p>								

**CHALLENGER** 103B Strickland Street  
 Whitehorse YT Y1A 2J6  
 (PH) 867-668-6940  
 WWW.CHALLENGERGEOMATICS.COM  
 email: whitehorse@challenger.com





**INTEQ**

# DEVON CANADA CORPORATION

Location: YUKON TERRITORIES, CANADA

Slot: L-38

Field: KOTANEELEE

Well: L-38

Installation: KOTANEELEE

Wellbore: DEVON (REV. 14-DEC-04) KOTANEELEE L-38 (DEF)



Created by: Planner  
Date plotted: 30-Dec-2004

Plot reference is DEVON (REV. 14-DEC-04) KOTANEELEE L-38 (DEF).  
Ref wellpath is (REV. 14-DEC-04) L-38.  
Coordinates are in metres reference L-38.  
True Vertical Depths are reference Rig Datum.  
Measured Depths are reference Rig Datum.  
Rig Datum: Datum #1  
Rig Datum to Mean Sea Level: 810.40 m.  
Plot North is aligned to TRUE North.  
Ellipse dimensions are of PROJECTED error ellipsoid  
Ellipsoids are scaled to 95.45% (1D) confidence

East (metres) ->

-900 -840 -780 -720 -660 -600 -540 -480 -420 -360

— ACTUAL WELLPATH  
- - PROPOSED WELLPATH

177.80 mm Intermediate casing

<-North (metres)

1680  
1620  
1560  
1500  
1440  
1380  
1320  
1260  
1200  
1140  
1080  
1020  
960  
900

<- True Vertical Depth (metres)

3350  
3400  
3450  
3500  
3550  
3600  
3650  
3700  
3750  
3800

TIE ONTO SURVEY FILE

177.80 mm Intermediate casing

700 750 800 850 900 950 1000 1050 1100 1150 1200 1250 1300 1350 1400 1450 1500 1550 1600  
Vertical Section (metres) ->

Azimuth 16.41 with reference 0.00 N, 0.00 E from L-38



DEVON CANADA CORPORATION, L-38  
KOTANEELEE,  
KOTANEELEE, YUKON TERRITORIES,  
CANADA

Wellbore: DEVON (MWD SVY)  
KOTANEELEE L-38 (DEF)  
Wellpath: (MWD SVY) L-38  
Date Printed: 4-Jan-2005



INTEQ

**Wellpath Report**

MD[m]	Inc[deg]	Azi[deg]	TVD[m]	North[m]	East[m]	Dogleg [deg/30m]	Vertical Section[m]
4059.70	64.80	14.90	3627.24	1245.57N	543.68W	0.90	1041.24
4069.50	65.00	14.20	3631.40	1254.16N	541.45W	2.03	1050.11
4079.00	64.60	13.10	3635.44	1262.51N	539.42W	3.39	1058.69
4088.40	64.20	12.80	3639.50	1270.77N	537.52W	1.54	1067.15
4097.90	64.30	13.10	3643.63	1279.11N	535.61W	0.91	1075.70
4107.50	64.90	13.50	3647.75	1287.55N	533.61W	2.19	1084.35
4117.30	65.00	13.80	3651.90	1296.18N	531.51W	0.89	1093.22
4126.80	65.10	14.90	3655.90	1304.53N	529.38W	3.17	1101.83
4136.30	65.20	17.40	3659.90	1312.80N	526.98W	7.17	1110.45
4146.00	64.60	18.80	3664.01	1321.15N	524.25W	4.34	1119.23
4155.60	64.10	20.50	3668.17	1329.30N	521.34W	5.04	1127.87
4165.30	64.80	21.90	3672.35	1337.46N	518.18W	4.47	1136.59
4175.00	64.90	23.30	3676.47	1345.57N	514.80W	3.93	1145.32
4184.50	64.80	23.30	3680.51	1353.46N	511.40W	0.32	1153.86
4194.00	65.00	24.40	3684.54	1361.33N	507.93W	3.21	1162.39
4203.50	64.60	24.70	3688.59	1369.15N	504.35W	1.53	1170.90
4213.00	64.50	25.10	3692.67	1376.93N	500.74W	1.18	1179.38
4222.50	64.90	25.50	3696.73	1384.70N	497.07W	1.70	1187.86
4232.10	64.80	25.80	3700.81	1392.53N	493.31W	0.90	1196.44
4241.70	63.70	27.20	3704.98	1400.27N	489.45W	5.23	1204.95
4251.30	62.80	27.60	3709.30	1407.88N	485.51W	3.03	1213.37
4261.60	61.90	30.70	3714.08	1415.85N	481.07W	8.42	1222.27
4271.20	61.80	29.30	3718.61	1423.18N	476.83W	3.87	1230.49
4280.60	62.00	29.00	3723.04	1430.42N	472.79W	1.06	1238.58
4290.20	62.10	30.00	3727.54	1437.80N	468.62W	2.78	1246.84

4337

-2917.1

47 m

-2940

All data is in Metres unless otherwise stated  
 Coordinates are from Slot MD's are from Rig and TVD's are from Rig ( Datum #2 810.4m above Mean Sea Level )  
 Vertical Section is from 0.00N 0.00E on azimuth 16.41 degrees  
 Bottom hole distance is 1512.24 Metres on azimuth 341.95 degrees from Wellhead  
 Calculation method uses Minimum Curvature method  
 Prepared by Baker Hughes Incorporated





# *Drilling Program*

*for*

***DEVON EAGLE PLAINS K-58***

***Latitude 66° 07' 34.8"***

***Longitude 136° 55' 27.6"***

***Winter 2005***

***TIGHT HOLE***

David Quinn

**Devon Canada Corp.**  
2000, 400 Third Avenue S.W.  
Calgary, Alberta T2P 4H2  
Main Phone (403) 232-7100

Exploration Area: Frontier, Yukon Territory  
Well Type: Gas  
Well Design: Vertical  
AFE# : 570083

## Devon Canada Corp. – Drilling Procedures & Policies

Refer to Devon Drilling Procedures & Policies Manual included with the wellsite package.

**ENSURE THAT THESE PROCEDURES AND POLICY'S ARE FOLLOWED.**

### PUBLIC ISSUES / CONCERNS

- 1) Ensure all personnel drive at reasonable speed based on weather and road conditions on public and lease access roads.
- 2) **Contact Devon's Ft.St. John office 250-787-0346 informing them of the mobilization of rig equipment.**
- 3) The Eagle Plains region is in an environmentally sensitive area, with severe impact to vegetation and land cover with any non approved egress and dumping.

### ROAD SPEEDS and CONDITIONS

- 1) Ensure that all road speed limits are adhered to!
- 2) This applies to everyone using the roads.

### ACCIDENT ACTION PLAN / AMBULANCE REQUIREMENTS

- 1) A medical treatment center and certified personnel will be present for all operations conducted during the project.
- 2) An Emergency landing strip is located at Eagle plains.

### H2S RELEASE RATE CALCULATIONS / CALCULATED EPZ

- 1) Intermediate Hole Section, **Not Applicable**
  - a) H2S Release Rate (m3/sec)
  - b) Calculated EPZ (km) =
- 2) Intermediate Hole Section –
  - a) H2S Release Rate (m3/sec) Calculated EPZ (km)
- 3) Main Hole Section – **Not applicable**
  - a) H2S Release Rate (m3/sec) =
- 4) Maximum H2S % to be encountered =

### REDUCED EMERGENCY PLANNING ZONE – EPZ

- 1) A Level 1 Corporate ERP will suffice.

### RESIDENTS, URBAN CENTRES, ETC.

- 1) Distance to nearest occupied dwelling,
- 2) Distance to nearest urban centre =
- 3) Number of occupied dwellings = Public Facilities and/or places of business within the planning zone

## DEFINITION OF SOUR PERIOD OF WELL

## EMERGENCY RESPONSE PLANS ( ERP )

- 1) Not Applicable

## DIMS DEVON DISTRICT

- 1) The Devon district for this well is N.E.B.C. Ensure that the correct district is input into the computer.

## PRIOR TO SPUDDING THE WELL

- 1) Notify the Yukon regulatory agency, Yukon Oil and Gas Management Branch, Whitehorse, Yukon within 24 hours of spudding the well, Richard Corbet (867) 667-3565.
- 2) Notify Devon production personnel (Ft.St.John 250-787-0346) that rig will be working within their jurisdiction.
- 3) The Eagle Plains Hotel will provide accomodation for the project, sufficient notice will be required to staff up the lodge for crews.
- 4) Before sending the first DIMS report check with the drilling engineer in Calgary to confirm that the correct District is used in DIMS.
- 5) Move in and rig up drilling rig. Ensure rig totally rigged in and all safety concerns addressed prior to spudding the well.
- 6) H2S Signs – if no H2S is expected ensure that a sign is not posted. If H2S is potential ensure that the sign is posted at the entrance to the lease.
- 7) Have pre-spud safety meeting prior to spudding the well
- 8) Conductor barrel will be set in advance of rig move move at 40 meters in depth. The conductor will be fitted with a API flange connection suitable for installation of Divertor BOP system.
- 9) Travelling Alone – if you are traveling to and from the hotel and wellsite all personnel will inform the drilling supervisor (or designated personnel) and be equipped with radios. Coordination and acknowledgement of travel from Dawson City on the Dempster Highway to Eagle Plains will be required.

## SURFACE HOLE – 311 mm, From 0 TO 350 MKB

- 1) Potential Drilling Problems
  - a) A shallow gas bearing sand could be expected at 80 meters. A divertor system with a pressure rating of 14MPa will be installed on the conductor barrel.
  - b) Gravel, Rocks, Boulders – could be encountered.
  - c) Lost Circulation may be encountered, ensure LCM is available if required.
- 2) Mud System
  - a) Gel Chem - Spud with light gel slurry.
  - b) Increase viscosity with Gel-Bentonite as required if Boulders / gravel are encountered.
  - c) Increase viscosity with Gel-Bentonite prior to running surface casing.
- 3) Hydraulics
  - a) Annular Velocity = 40-50 m/min
  - b) Pump Rates to achieve the annular velocities above . Change liners as required to obtain the high pump rates.
  - c) Jet Velocities – use very large jets for a low jet velocity to prevent washing out hole and conductor barrel.

- 4) Drill Bit Recommendations
  - a) Spud well with new re-tip milltooth drill bit to drill top glacial till, gravel, etc..
- 5) Bottom Hole Assembly
  - a) As per rig.
- 6) Deviation Surveying
  - a) Directional surveys are not required.
  - b) Survey a minimum of every 30m
  - c) Maximum deviation of 2.0 degrees on surface hole. Fann hole as required to keep deviation below 2 degrees. This is very important to minimize drillpipe casing wear for well control when drilling deeper.
  - d) Maximum deviation change of 1 deg/30m dogleg.
  - e) If offset well information shows potential for deviation on surface hole, survey more often than 30m.
- 7) Lost Circulation
  - a) If lost circulation is encountered, an initial effort should be made to control the problem using an LCM pill. If unsuccessful, attempt to drill ahead with losses or blind to try and heal up hole if hole conditions allow (contact Calgary prior to drilling ahead). For severe lost circulation a quick set cement plug will probably be set.
- 8) Drill to approximately 10-15m short of planned total depth to fit the casing. Observe drilled cuttings to ensure that the casing seat is in competent formation. The surface casing may have to be set deeper due to gravel, boulders, glacial till, etc..
- 9) Wiper trip to surface, strap drillstring all the way out of the hole, to confirm total depth. Run in hole and drill to final surface hole total depth required to fit casing strap to leave a stickup of approximately 1m with casing landed on bottom.

## SURFACE CASING & CEMENTING - 244.5 mm

- 1) Surface casing Design -244.5mm, J-55

Interval (mKb)	Size	Weight	Tubular	Thread	I.D.	Drift	Coupling	Capacity	
From	To	(mm)	(kg/m)	Grade	Type	(mm)	(mm)	(m3/m)	
0	350+	244.5	53.6	J-55	ST&C	226.5	222.6	269.88	0.0403
Collapse Pres. (kPa)	13,930 @ 100%		11,140 @ 80%	Jt. Strength (daN)		175,300 @ 100%		140,240 @ 80%	
Burst Pressure (kPa)	24,270 @ 100%		19,416 @ 80%	Body Yield (daN)		250,900 @ 100%		200,720 @ 80%	
Make-up Torque - Optimum ( N m )			5340	Make-up Torque - Maximum ( N m )				2070	


- 2) Base of Ground Water, Not applicable, the perma frost is estimated at 90 meters.
  - a) Cement production casing to surface.
- 3) Casing and Accessories Suppliers
  - a) Casing - Nusco
  - b) Trucking - Peben FSJ, (250) 785-8857.
  - c) Casing Costs - \$ xx.xx /m.
  - d) Accessories - Import Tool.

- 4) Casing string to be run, bottom to top
  - a) Weld not required
  - b) Float Shoe
  - c) 1 Full joint of 244.5mm, J-55, 53.6 kg/m, ST&C, casing
  - d) Float Collar
  - e) 244.5 mm casing to surface
- 5) Threadlocking
  - a) Threadlock the btm jt of casing into the float shoe
  - b) Threadlock the btm & top of the float collar.
- 6) Centralization – Require 6 ro 7 required.
  - a) Ensure centralizers are designed for the proper hole size.
  - b) Run one 2m above the shoe with a stop collar.
  - c) Run one every 50m to surface, EUB Regulations.
  - d) Run one in the conductor barrel close to surface.
- 7) Stop Collars
  - a) One required only for the centralizer 2m up from the shoe.
- 8) Scratchers
  - a) None Required.
- 9) Run in with casing very slowly ensuring not to surge the hole. Circulate casing where required.
- 10) Once on bottom circulate the casing for a minimum of 2 btms ups.
- 11) Reduce viscosity of mud as much as possible depending on hole conditions.
- 12) Cement type – Perma Frost cement blend, 1880 kg/m<sup>3</sup>, water 0.39 m<sup>3</sup>/tonne, yield 0.74 m<sup>3</sup>/tonne.
- 13) Cement Volume – approximate excess 50-100% (depends on sloughing hole, lost circulation, gravel encountered, etc.).
- 14) Cement Mix Water Temperature – ensure it is 15-20 deg C.
- 15) Pipe movement
  - a) Is to be performed on all jobs unless well conditions dictate it is too risky.
  - b) Reciprocate while conditioning mud, cementing, up to the end of displacement.
- 16) Chain down casing prior to bump.
- 17) Cement pump rate – 1-2 m<sup>3</sup>/min. Ensure rate is not faster than the circulation rate during mud conditioning when the casing was on bottom.
- 18) Pre-sweep with fresh water (no cement scavenger).
- 19) Do not pump out the cement lines, displace with water.
- 20) **DO NOT OVERDISPLACE MORE THAN ½ OF VOLUME BETWEEN THE FLOAT SHOE AND FLOAT COLLAR. BUMPING THE PLUG IS NOT NECESSARY.**

## **WOC, NIPPLE-UP, PRESSURE TEST AND LEAKOFF**

- 1) Land casing just off bottom of hole, centralize in rotary table, and chain down if necessary.
- 2) Wait on Cement
  - a) **DO NOT MOVE CASING FOR A MINIMUM OF 4 HOURS, WAIT LONGER THAN 4 HOURS IF THE SURFACE CEMENT SAMPLES HAVE NOT SET UP.**
  - b) Ensure to not drill out until 12 hours after cement plug was down.
- 3) Wellhead – Casing Bowl Size
  - a) Size; 229.0 x 21 mpa x 244.5mm casing weld-on.
  - b) PSL Level #1
  - c) Side outlet #1 = 52.4mm x 21 mpa, LPO
  - d) Be sure to report casing bowl and valve serial #'s on morning report.
  - e) Ensure all equipment complies with the Yukon Oil & Gas Act, regulations.
- 4) Casing Bowl Welding Procedures
  - a) If possible ensure casing bowl flange is at least at ground level or above.
  - b) The welder must hold a Valid Grade B Pressure Welder's Ticket from the Province of Alberta. Refer to ARP 1.15 Welding Guidelines for Critical Sour Wells. **Record welders B pressure ticket # on morning report.**
  - c) If using a cutting torch - cut casing with torch 6-12" above the final cut.

- d) Bail down water in casing 1 meter below the final cut.
  - e) Preheat final cut area to 480 deg F and cut casing. NOTE - A MECHANICAL CUTTER SHOULD BE USED WHENEVER POSSIBLE.
  - f) Dress top with grinder.
  - g) Ensure areas of weld are free from dirt etc..
  - h) Preheat casing & casing bowl to 400-600 degrees F for a minimum of 4" on either side of the weld. Weld on the casing bowl (tubing head).
  - i) Post heat after welding on casing bowl. Allow to cool slowly.
  - j) Pressure test casing bowl weld. Don't exceed 50% of collapse of surface casing.
  - k) Orient outlets so that they are lined up East/West or North / South.
- 5) BOP Stack Requirement
- a) 229.0mm x 21000 kpa, Stack Class 111
- 6) BOP Stack Configuration, from top down.
- a) Flow nipple
  - b) Annular Preventor
  - c) Blind Rams
  - d) Pipe Ram
  - e) Bleedoff Spool to Manifold
  - f) Casing Bowl
- 7) Ensure Yukon Oil & Gas requirements are met, see Drilling and Production Regulations.
- 8) Note: ONLY NEW RING GASKET TO BE INSTALLED!!
- 9) HCR to be installed adjacent to the BOP stack.
- 10) Pressure Test BOP's
- a) Pressure test the annular, rams, bleedoff line & valves, manifold valves, kill line & valves, stabbing valve, inside BOP, and surface casing to 1500 kpa low pressure test. The high test of 11 MPa for the annular and 21MPa for the balance of the BOP equipment.
  - b) Pressure test duration must be 15 minutes (must maintain a stabilized pressure of at least 90% of the test pressure).
  - c) A low viscosity fluid must be used.
  - d) See the section 47 (1) of the Drilling and Production regulations.
- 11) Remote Controlled Choke
- a) Will be required.
- 12) Pit Volume Totalizers
- a) Ensure installed and operational before drillout.
- 13) Leak-off Test
- a) Not required.
  - b) Post maximum allowable casing pressure (MACP) in doghouse, at remote choke, and in manifold shack.

## **SURFACE CASING WEAR PREVENTION**

- 1) Ensure the surface casing was cemented to surface with good quality cement (ie good cement returns). This will ensure the casing is stable.
- 2) Ensure that the rig is centered over the hole. Jack rig if required. When surface casing cement is setting up center the casing in the table with slips.
- 3) Ensure the Kelly is not bent, replace with new one if required.
- 4) Inspect the drillpipe hardbanding to ensure it is smooth and new/rough. Has it drilled wells since its last hardbanding operation.

## **MAIN HOLE – 222 mm**

- 1) Potential Drilling Problems
  - a) Borehole Stability – should not be a major problem
  - b) Lost Circulation – is possible if vugular porosity is encountered. Notify the Calgary office immediately if lost circulation does occur.
  - c) Deviation – not expected to be a major problem.

- d) Over Pressure – should not be a problem.
- e) Sour Gas H2S –none is expected for this program.
- f) Anhydrite problems, none is expected.
- g) Mud system; drill out with a Gel-Chemical system, maintaining density 1080 to 1200 kg/m<sup>3</sup>, viscosity 45 to 65 sec/l, see additional details in the MI Drilling Fluids Program.
- 2) Hydraulics ( 222 mm Hole / 101 mm Drillpipe )
  - a) Annular Velocity – as required
  - b) Pump Rates – as required
  - c) Adjust viscosity as required so that the 244.5 mm casing annulus can be effectively cleaned.
- 3) Drill Bit Recommendations
  - a) Check with local bit suppliers on best bit run for the area.
  - b) Motor drilling is not required.
- 4) BHA
  - a) Run a ported bottom hole float on all bit runs.
  - b) Drill collars – as per rig
- 5) Drillsting Design
  - a) As per rig inventory
- 6) Deviation Surveying
  - a) *Directional surveys are not required.*
  - b) Survey a minimum of every 150m.
  - c) Maximum deviation of 3 degrees.
  - d) Maximum deviation change of 2 degree / 30 m
- 7) Coring Planned -
  - a) None are planned for this hole section.
- 8) Drill Stem Tests Planned
  - a) Test are planned for this hole section. Selection of intervals will be made after log evaluation.
- 9) Open Hole Logging
  - a) See geological prognosis for logging program.

## MAIN HOLE CASING & CEMENTING - 139.7 mm

- 1) Production Casing Design – 139.7 mm casing
  - a) production casing, 139.7 mm, 25.30 kg/m, L-80, STC connection.
- 2) Casing Design Parameters

Interval (mKb)		Size	Weight	Tubular	Thread	I.D.	Drift	Coupling	Capacity
From	To	(mm)	(kg/m)	Grade	Type	(mm)	(mm)	OD(mm)	(m <sup>3</sup> /m)
1330	0	139.7	25.30	L-80	STC	124.26	121.08	153.67	0.003
Collapse Pressure (MPa) Rating		33.85 100%	27.08 80%		Jt. Strength (daN)		101,900 100%		81,520 80%
Burst Pres.(MPa) Rating		36.68 100%	29.34 80%		Body Yield (daN)		121,400 100%		97,120 80%
Make-up Torque - Optimum ( N m )				4630	Make-up Torque – Maximum ( N m )				
Make-up Torque – Optimum (N m )					Make-up Torque – Maximum (N m )				

- 3) Casing and Accessories Suppliers
  - a) Casing – Nusco Sales
  - b) Tubing Costs – xx.xx / m
  - c) Trucking – Peben FSJ, (250) 785-8857.
  - d) Accessories – Import Tool.
- 4) Casing String to be run, bottom to top
  - a) Guide Shoe
  - b) Short casing joint, 139.7 mm
  - c) Float Collar
  - d) Run short joint (used for marker correlation) about 20 meters above any potential zones of interest.
  - e) Run the balance of the casing to surface
- 5) Threadlocking
  - a) Threadlock the bottom joint of tubing, the guide shoe connection.
  - b) Threadlock the bottom & top of the float collar connections.
- 6) Centralization
  - a) Ensure centralizers are designed for the proper hole size.
  - b) Run one 2m above the shoe with a stop collar.
  - c) Run 1 per joint for 40m below and 40m above all potential pay zones.
  - d) Run one every 50m to the surface casing shoe.
  - e) Semi Rigid – every 50m in surface casing.
- 7) Run in with tubing very slowly ensuring not to surge the hole . Circulate casing where required.
- 8) Once on bottom circulate the casing for a minimum of 2 btms ups.
- 9) Reduce viscosity of mud as much as possible depending on hole conditions.
- 10) Cement Top ; cement full length.
- 11) Cement type; Perma Frost cement blend, 1880 kg/m3, water 0.39 m3/tonne, yield 0.74 m3/tonne.
- 12) Cement Volume – use 20% excess over 4 arm caliper
- 13) Cement Mix Water Temperature – ensure it is 15-20 deg C.
- 14) Pipe movement
  - a) Is to be performed during circulation, mixing and displacement.
- 15) Cement pump rate – 1.0 to 1.2 m3/min. Ensure rate is not faster than circulation rate was while conditioning mud with casing on bottom.
- 16) Pump Presweep
  - a) Pump sweeps as per program.
- 17) Pump cement. Ensure that lines are pumped out pror to displacing plug.
- 18) DO NOT OVERDISPLACE MORE THAN ½ OF VOLUME BETWEEN THE FLOAT SHOE AND FLOAT COLLAR. BUMPING THE PLUG IS NOT NECESSARY.

## **ABANDONMENT IF REQUIRED**

- 1) Should wellbore abandonment be required, consult with Calgary office for plugging program..
- 2) Ensure that the surface cement employed be suitable for perma frost terrain.

## **WELLHEAD INSTALLATION / SETTING SLIPS**

- 1) Land the casing in full tension. Wellhead or capping instructions will be determined at the completion of the well.



## RIG RELEASE

- 1) Ensure that the tubing head outlet valve assemblies are left open.
- 2) Ensure lease and access are free of all garbage and junk.
- 3) Notify the regulatory body that the well is rig released.
- 4) **Ensure that the rat and mouse holes are filled in with cement or gravel.**
- 5) Ensure that all pits are fenced before leaving the location.

## BITS - USED

- 1) All bits used on the well are to be returned to J&L Supply.

## PAPERWORK REQUIREMENTS

- 1) Tour Sheets - the blue and yellow copies are to be mailed to Devon's Calgary office Drilling department. The Calgary office forward the yellow copy to the EUB.
- 2) DIMS Reports must be transmitted into the Calgary office by 7:00 AM every morning.
- 3) Services awarded in the field require a quote. Should a company not be selected from the approved vendors list, bids must be received from 2-3 company's with the rationale for selection. This form must be submitted to the Calgary office. This is for such services as tongs, pickup / laydown, medic, standby cat, etc., etc..
- 4) Sign all field tickets and ensure that the AFE #(8 digits) and location # are on all tickets.
- 5) First report on DIMMS is to include construction costs. Last report is to include estimated clean up costs.

### CONTACT TELEPHONE NUMBERS

NAME	POSITION	BUSINESS	CELLULAR	RESIDENCE
D. Quinn	Drilling Engineer	403-515-5790	403-830-5073	403-249-3719
Hank Bakker	Drlg. Team Leader	403-232-5056	403-850-1958	403-242-6219
<b>24 Hour Service</b>	<b>On Call Engineer</b>	<b>403-264-9994</b>		
Carl Hiscock	Drilling Manager	403-232-7481	403-860-2707	403-239-0885
	Safety & environment	403-232-7363		403-256-7356
Kevin Stashin	Operations VP	403-232-7530	403-850-4847	403-239-6209
Bill Thompson	Compl. Team Leader	403-232-7365	403-861-8974	403-288-9188
Warren McPhail	Completions Engineer	403-232-5508	403-860-0945	403-663-9383
Peter Morissette	Exploitation Engineer	403-232-7503	403-874-3804	403-278-3474
Chris Bergquist	Geologist / Initiator	403-232-7201		
Bob Flowerday	Exploration Manager	403-232-7288	403-620-2852	403-243-5086
Tom Dowsely	Exploitation Manager	403-232-7133	403-510-9570	403-277-3715

<b>24 HOUR ANSWERING</b>	<b>403-264-9994</b>	Drilling report modem	403-232-7347
<b>Drilling Fax # 1</b>	<b>403-232-7625</b>	Geology Fax (standard )	403-232-7578
<b>Drilling Fax # 2</b>	<b>403-232-7626</b>	Geology Fax (roll paper)	403-232-5597
Drilling Assistant Rita Reddy	403-515-5744		

**CONTRACT SERVICES**

CONSTRUCTION	TBA	
DRILLING SUPERVISION	TBA	
DRILLING RIG	TBA	
RIG MOVE/TRUCKING	MULLEN (Land Transport)	250-785-8935
CAMP	Eagle Plains Lodge	867-993-2453
CAMP SEWAGE TANK	NA	
WELLSITE TRAILERS		
DRILLING MUD	MI Drilling Fluids	
DRILLING MUD TRUCKING	MULLEN (Land Transport)	250-785-8935
RIG WATER TRUCK		
VACUUM TRUCK		
BITS - SURFACE		
BITS - TOOTH & INSERTS		
BITS - PDC		
TUBULAR	Nusco	403-266-8518
TUBULAR - TRUCKING	Peben FSJ	250-785-8857
FLOAT EQUIPMENT	IMPORT TOOL	780-434-6406
CASING BOWL/WELL HEAD	ABB VETCO (FT.ST.JOHN)	1-800-925-6028
CEMENT	Sanjel	1-800-661-5515
JARS		
GARBAGE		
MEDIC/FIRST AID		
RADIO RENTALS		
TANKS - SURFACE/SHALE		
TANKS - FLARE		
CENTRIFUGE	N/A	
DRILL PIPE	N/A	
CORING	N / A	
TESTING	BAKER	403-537-3400
LOGGING	Schlumberger	
LINER HANGER	N/A	
BRIDGE PLUG	BAKER	250-785-3975
POWER TONGS		
LAY DOWN TRUCK		
SAFETY/H2S		
FISHING SERVICES	BAKER	403-537-3400
HYDRAULIC CHOKE	N/A	
DIRECTIONAL TOOLS	N/A	
PIT VOL TOTALIZERS		
PRESSURE TESTER		
NIPPLE UP CREW		
WELDER		

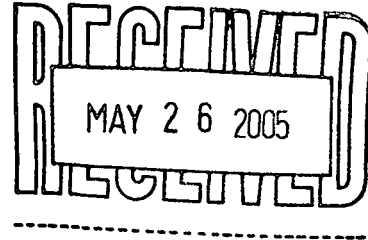
# Devon Canada Corporation

2000, 400 - 3<sup>rd</sup> Avenue S.W.  
CALGARY, Alberta  
T2P 4H2

## DATA TRANSMITTAL

**DATE:** May 25, 2005

**TO:** Government of the Yukon  
Energy, Mines and Resources  
Oil & Gas Mgmt Branch  
Box 2703  
Whitehorse, Yukon Y1A 2C6  
Attn: Richard Corbet  
**(2 logs, morning reports when completed)**



NEB on behalf of the Yukon  
Attn: Chris Knoechel  
E-Mail: [cknoechel@neb-one.gc.ca](mailto:cknoechel@neb-one.gc.ca)  
**(morning reports when completed)**

**RE:** Devon Eagle Plains K-58

### DESCRIPTION OF TRANSMITTED MATERIAL:

Tour sheets (02/17/05 to 04/06/05), 2 copies

*Sent by Marilyn Rutherford  
232-7647*

# EMR Routing Slip

Log #  CW  P-CW  Response Log #:  Comm. Log #:

Special Instruction  Request Type:

Date of Request  Status  File Locations

From  BF Date

Organization  Date Completed

Date Received  User Name

Forwarded To

Subject

Action Requested

Comments

*Forwarded to*

*Action*

*Signature*

*Date*

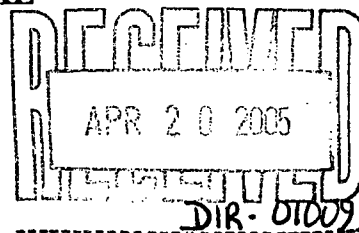
# Devon Canada Corporation

2000, 400 - 3<sup>rd</sup> Avenue S.W.  
CALGARY, Alberta  
T2P 4H2

## DATA TRANSMITTAL

**DATE:** April 14, 2005

**TO:** Government of the Yukon  
Energy, Mines and Resources  
Oil & Gas Mgmt Branch  
Box 2703  
Whitehorse, Yukon Y1A 2C6  
Attn: Richard Corbet  
**(2 logs, morning reports when completed)**



NEB on behalf of the Yukon  
Attn: Chris Knoechel  
E-Mail: [cknoechel@neb-one.gc.ca](mailto:cknoechel@neb-one.gc.ca)  
**(morning reports when completed)**

**RE:** Devon Eagle Plains K-58

**DESCRIPTION OF TRANSMITTED MATERIAL:**  
Geological Report

*Sent by Marilyn Rutherford  
232-7647*

Please file in K-58 file



Devon K-58 Eagle Plains

- K. Smith @ aura college



- 12 unit

- 7305 station  
- field  
- Chest



# Eagle Plains K-58 - DRILL STEM TEST

3151-1120

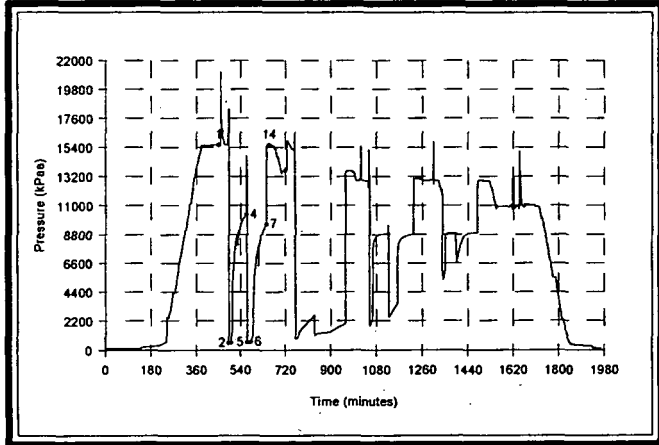
## K-58 DST# 1

Baker Oil Tools

Formation: S1 - Sand  
Interval - from: 1193.00 to: 1203.00 m

Test Date: 2005-03-30  
Test Type: inflate straddle  
Tester Name: John Sandford  
Drill Pipe O.D.: 114.00 mm  
Drill Collar I.D.: 57.00 mm  
Drill Collar Length: 72.00 m  
Hole Size: 222.00 mm

Recorder# N2 at 1195.00 m



### Blow Description:

Closed Chamber - see report for rates.

### Remarks:

This is the first of four tests run on the same trip in the hole. Mechanically successful test. Results suggest low permeability within the interval tested. The pressure drop during the shut-ins is a result of the jars firing. Unable to extrapolate the shut-ins as radial flow was not reached. Added 20 liters of inhibitor and water prior to starting the test. Main flow shortened due to poor flow pressures.

Maximum Btm Hole Temperature @ FSI: 23.8 C

		Pressure (kPaa)	Time (min)	Extrapolated Pressure (kPaa)
1	Initial Hydrostatic	15561		
2	Start of 1st Flow	508		
3	End of 1st Flow	518	10.0	
4	End of 1st Shut-in	10306	59.5	
5	Start of 2nd Flow	551		
6	End of 2nd Flow	582	15.0	
7	End of 2nd Shut-in	9564	59.5	
14	Final Hydrostatic	15558		

### Liquid Recovery of 815.00 m

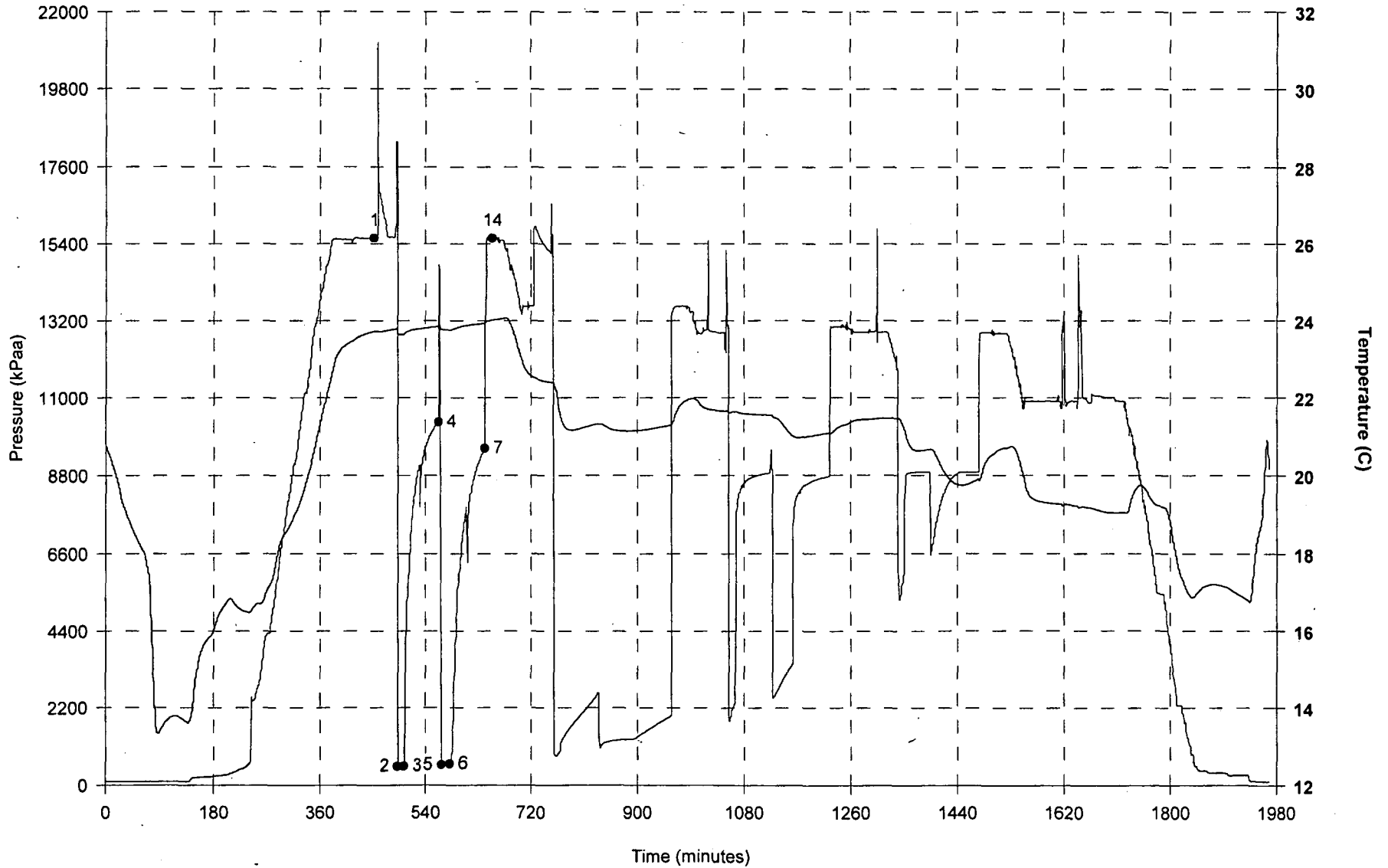
Test was reversed out.

Recovery	Description	Salinity
815.00 m	Gasified brackish water with mud on top	7000



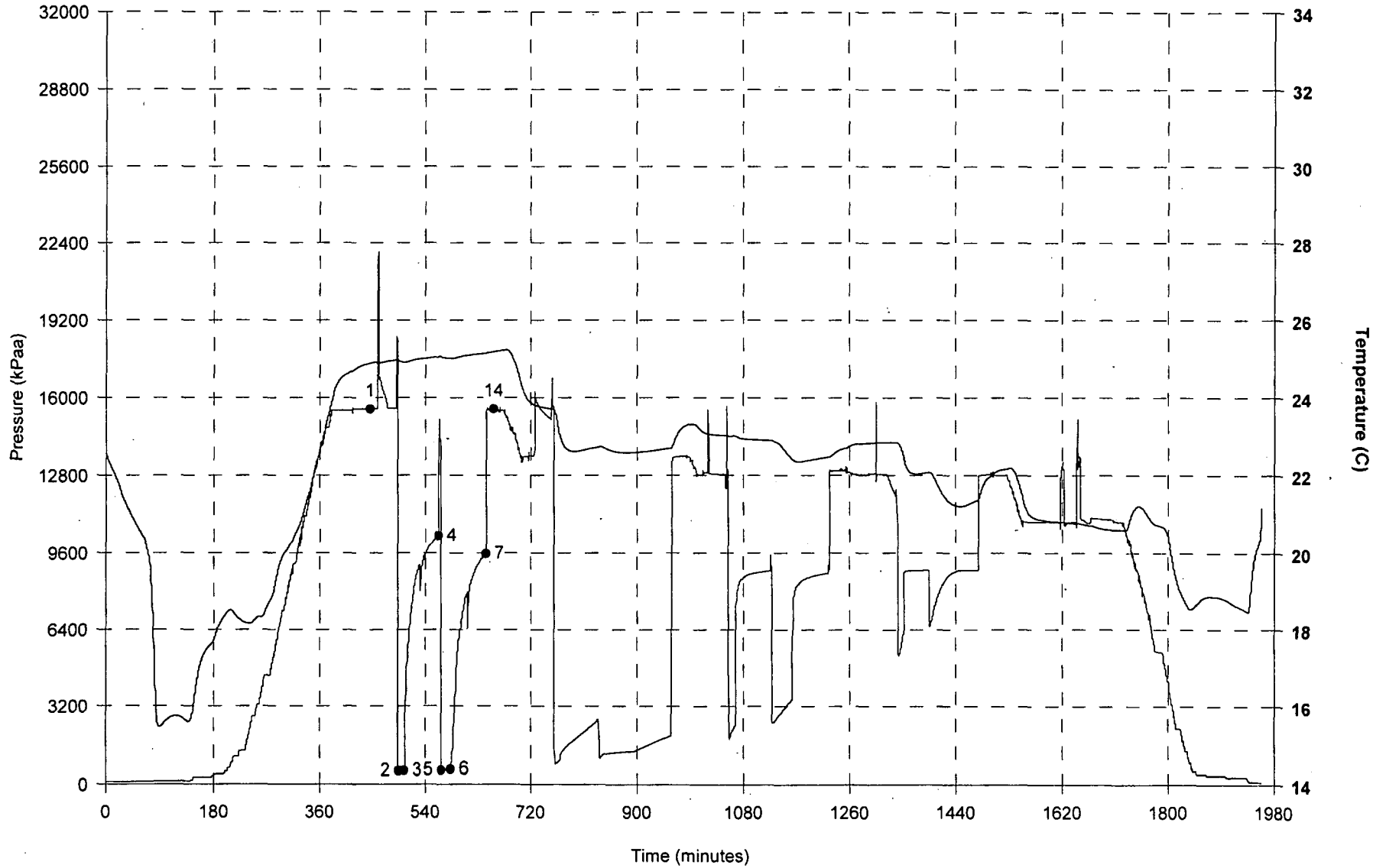
Eagle Plains K-58  
 K-58  
 DST #: 1  
 Recorder: N2

Pressure (kPaa) at Critical Points:  
 1: 15561    4: 10306    7: 9564  
 2: 508      5: 551      14: 15558  
 3: 518      6: 582



Eagle Plains K-58  
 K-58  
 DST #: 1  
 Recorder: N29

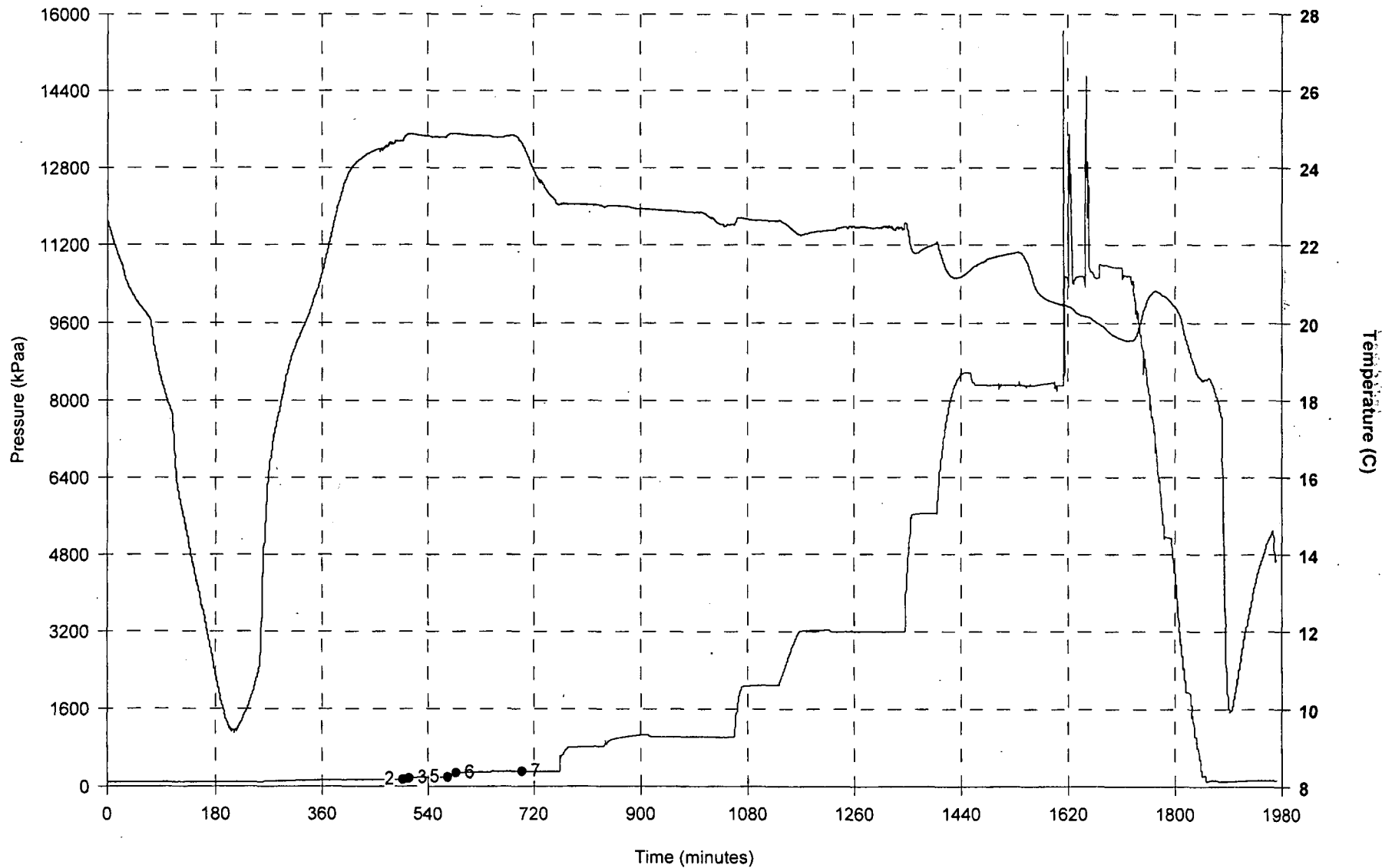
Pressure (kPaa) at Critical Points:  
 1: 15535    4: 10304    7: 9568  
 2: 513    5: 544    14: 15531  
 3: 525    6: 589



Eagle Plains K-58  
K-58  
DST #: 1  
Recorder: W14

Pressure (kPaa) at Critical Points:  
2: 136     6: 269  
3: 158     7: 296  
5: 185

Recovery recorder



Eagle Plains K-58  
K-58  
DST #: 1  
Recorder: N37

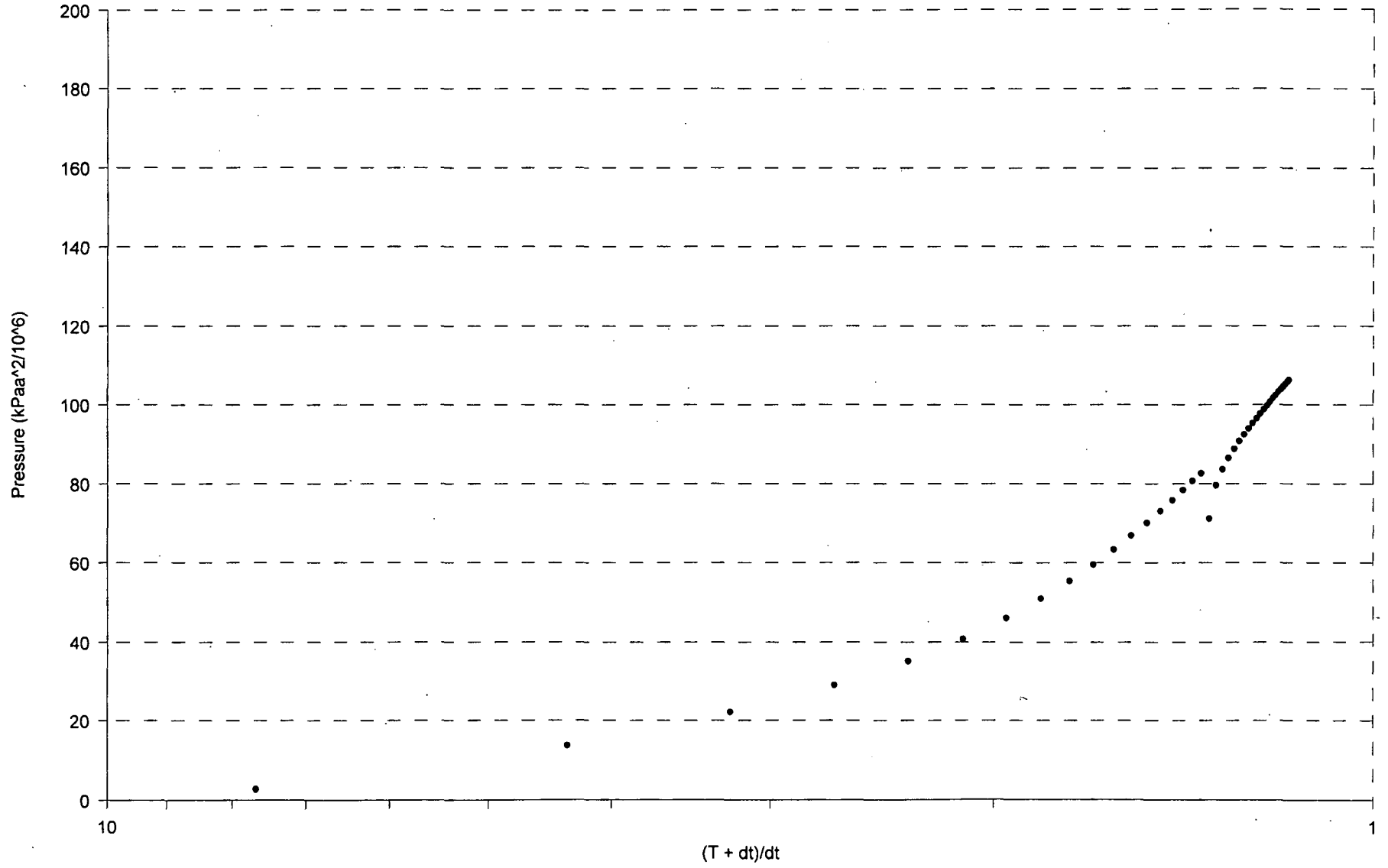
Pressure (kPaa) at Critical Points:  
2: 186    6: 332  
3: 239    7: 342  
5: 252

Recovery recorder



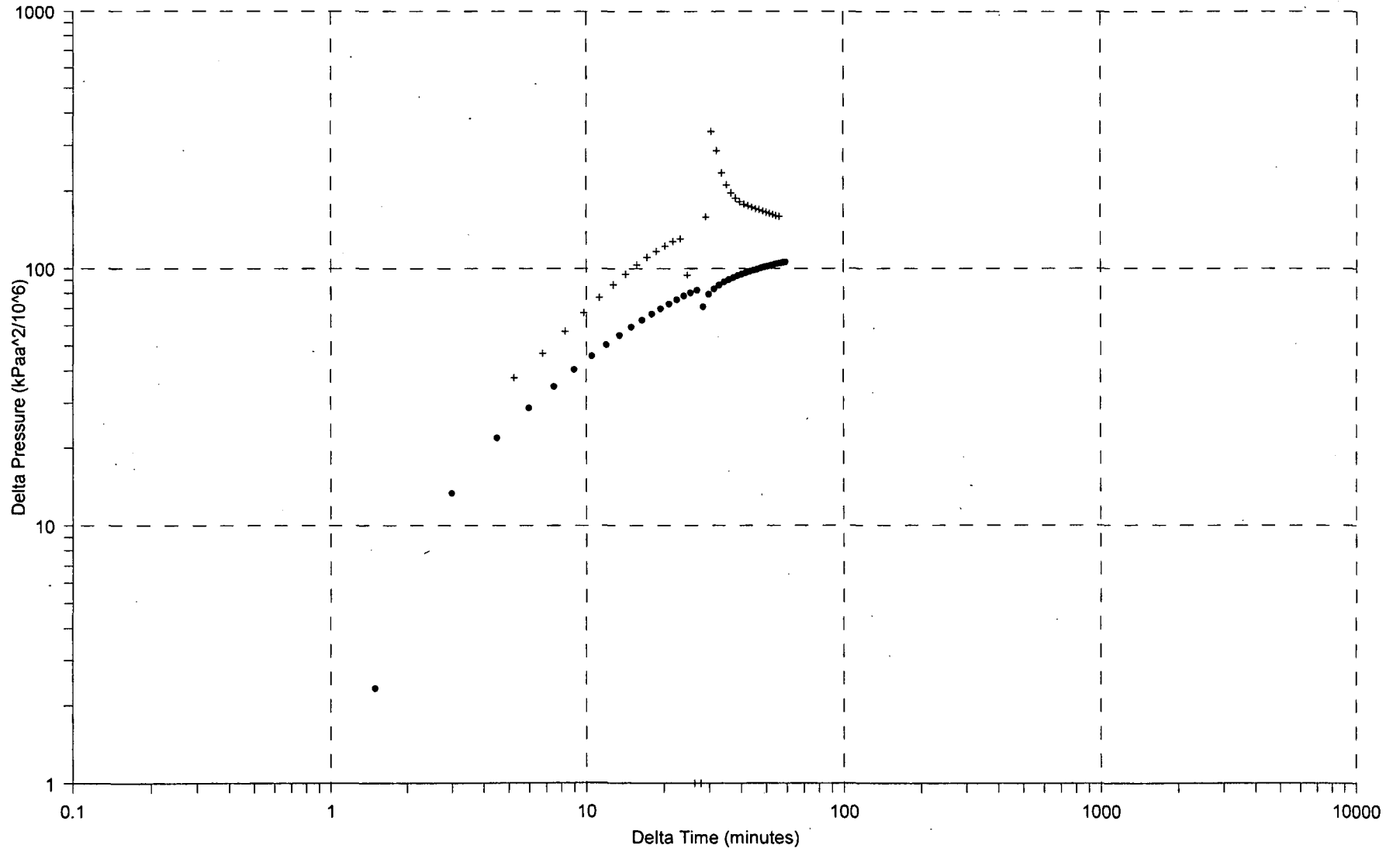
Eagle Plains K-58  
K-58  
DST #: 1  
Recorder: N2

Shut-in #1



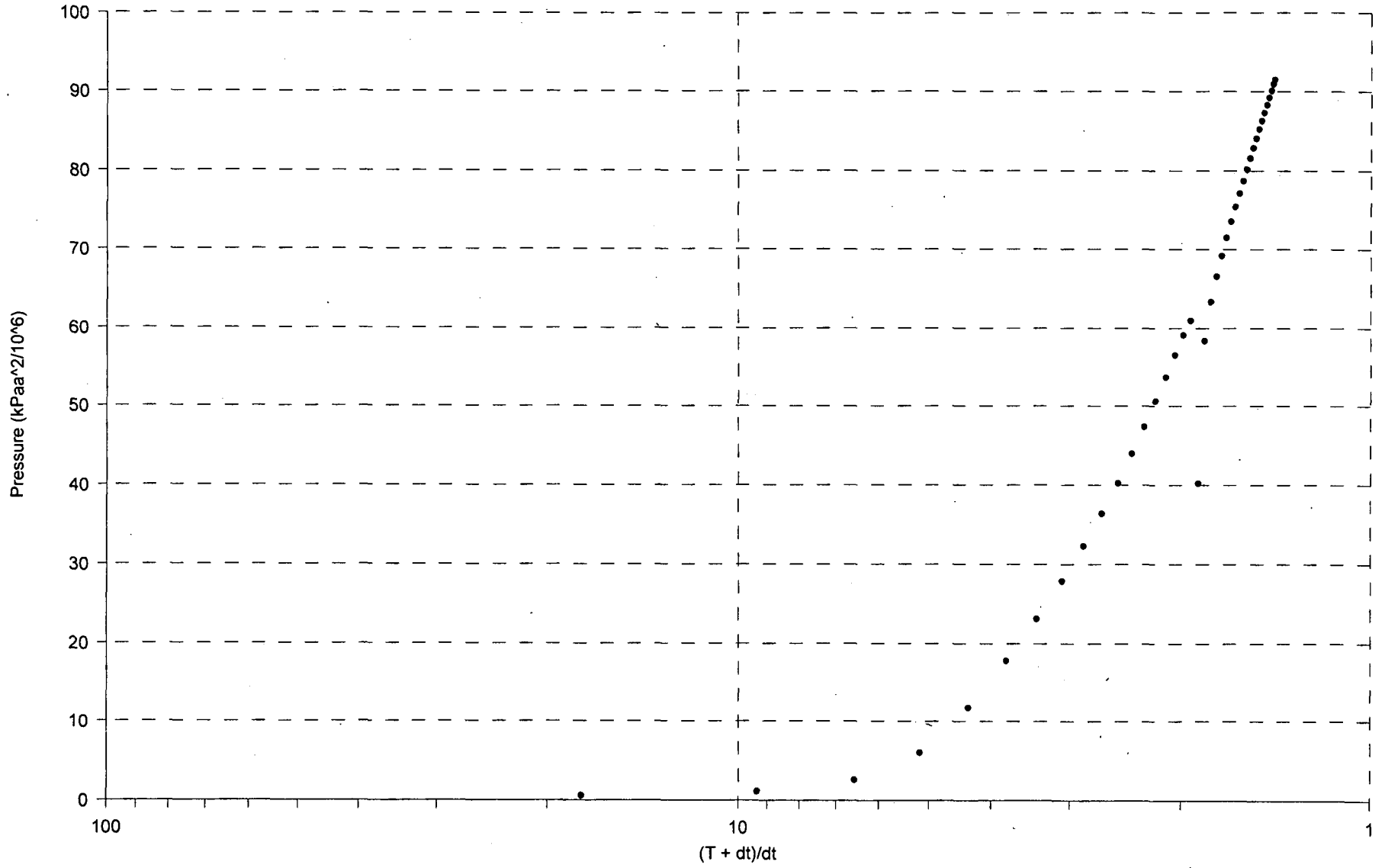
Eagle Plains K-58  
K-58  
DST #: 1  
Recorder: N2

Shut-in #1



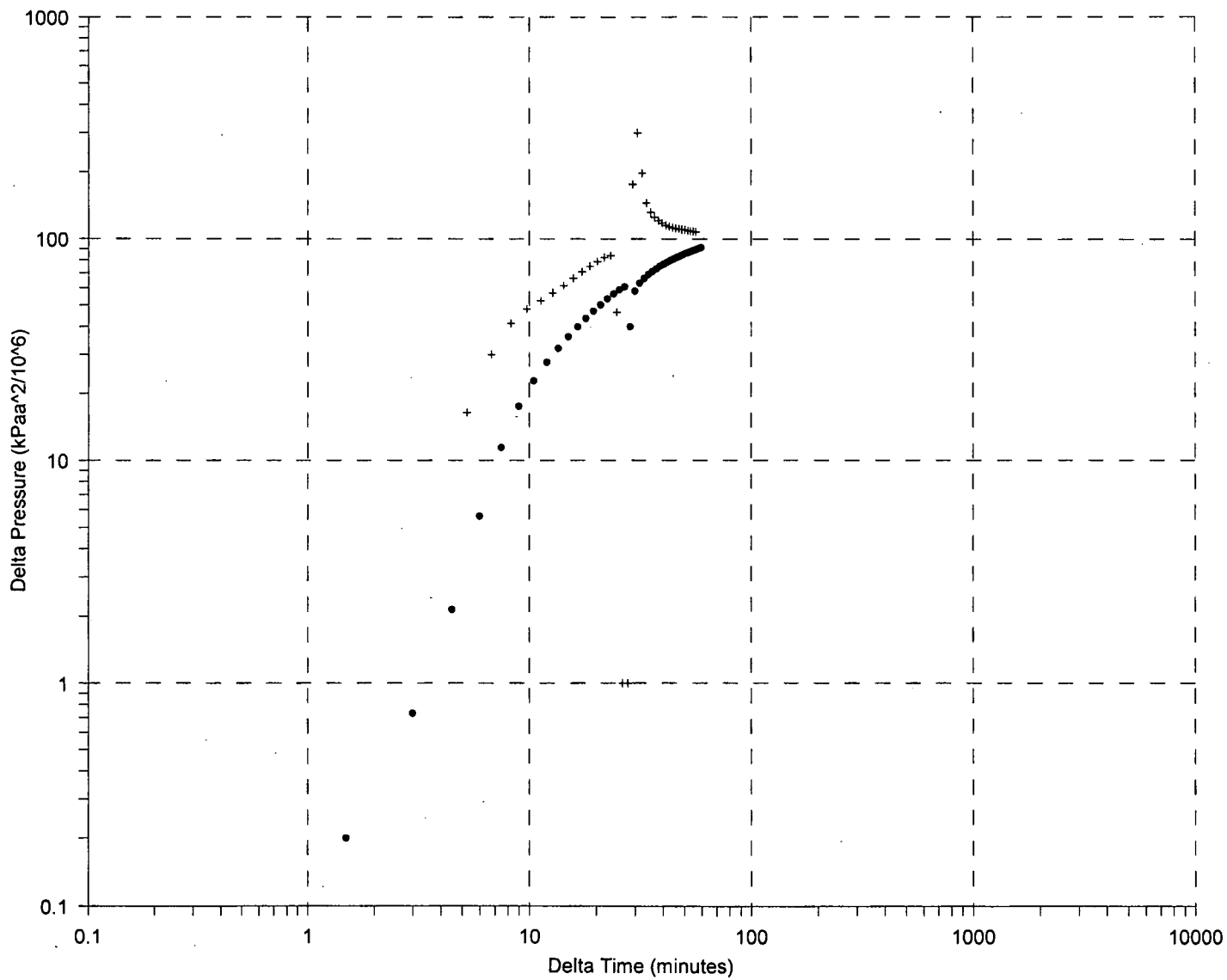
Eagle Plains K-58  
K-58  
DST #: 1  
Recorder: N2

Shut-in #2



Eagle Plains K-58  
K-58  
DST #: 1  
Recorder: N2

Shut-in #2







Baker Oil Tools

## Closed Chamber Test Report

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*Prepared for:* **Devon Canada Corp**

**Well Name: Eagle Plains K-58**

**Location: K-58**

**Test Date: Wed 30 Mar 2005**

**Job Ticket #: 60-0518**

**DST #: 1**



# Pre-Test Plan

Baker Oil Tools  
1300, 401 - 9th Ave. SW, Calgary, Alberta  
(403) 537-3400 \* <http://www.bakeroiltools.com/>

## General Information

Baker's Ticket: <b>60-0518</b>	Closed Chamber Technician: <b>Jay Selinger</b>
Date: <b>Wed 30 Mar 2005</b>	Telemetry Truck: <b>I WISH</b>
Customer: <b>Devon Canada Corp</b>	Test #: <b>1</b>
Well Name: <b>Eagle Plains K-58</b>	Interval: <b>1,193.00 to 1,203.00 meters</b>
Well Location: <b>K-58</b>	Formation: <b>S1 - Sand</b>
Well License Number: <b>11120</b>	Test Type: <b>Inflate Straddle</b>
Customer Rep: <b>John Williams</b>	Hole Size: <b>222.000 mm</b>
Rig Name & Number: <b>Ensign 55</b>	Total Depth: <b>1,278 meters</b>
Testing Company: <b>Baker Oil Tools Canada</b>	Mud Type: <b>Gel Chemical</b>
DST Supervisor: <b>John Sandford</b>	Mud Weight: <b>1315 kg/m3</b>
DST Truck: <b>35161</b>	Mud Viscosity: <b>85 l/min</b>
Primary Objective of Closed Chamber: <b>Accuracy</b>	Mud Resistivity:
	Mud Salinity:

## Constants Used During Pretest Planning

Surface Temp: <b>-10.00 Celcius OR 263.15 kelvin</b>	BottomHole Choke Size: <b>12.700 mm</b>
Formation Temp: <b>25.00 Celcius OR 298.15 kelvin</b>	Surface Choke Size: <b>12.700 mm</b>
Average Temp: <b>7.50 Celcius OR 280.65 kelvin</b>	Cushion Type: <b>None</b>
Compressibility: <b>0.95</b>	Cushion Amount:

## Maximum Possible Rates

	Liquid Rate	Gas Rate	Surface Rate
Gas:	—	224,604.6 m3/d	1,822.5 kPa/min
Gas Saturated H2O:	761.8 m3/d	251.4 m3/d	7.1 kPa/min
Pure Liquid Influx:	761.8 m3/d	—	5.1 kPa/min

## Chamber Volume

Drill Collar	Heavy Weight Drill Pipe	Drill Pipe
ID: <b>57.000 mm</b>	ID: <b>71.000 mm</b>	ID: <b>97.000 mm</b>
Length: <b>72.00 m</b>	Length: <b>91.35 m</b>	Length: <b>1,011.99 m</b>
Capacity: <b>0.0026 m3/m</b>	Capacity: <b>0.0040 m3/m</b>	Capacity: <b>0.0074 m3/m</b>
Volume: <b>0.1837 m3</b>	Volume: <b>0.3617 m3</b>	Volume: <b>7.4784 m3</b>

Total Chamber Volume: **8.0238 cubic meters**  
 Minus Cushion Volume: **0.0000 cubic meters**  
 Net Chamber Air Volume: **8.0238 cubic meters**



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## Field Remarks

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Baker Oil Tools  
1300, 401 - 9th Ave. SW, Calgary, Alberta  
(403) 537-3400 \* <http://www.bakeroiltools.com/>

Baker's Ticket: **60-0518**

Date: **Wed 30 Mar 2005**

Customer: **Devon Canada Corp**

Test #: **1**

Well Name: **Eagle Plains K-58**

Interval: **1,193.00 to 1,203.00 meters**

Well Location: **K-58**

Formation: **S1 - Sand**

The recovery recorder shows a hydrostatic pressure of 8,220 kPag for the reported recovery of 815 meters. This yields a gradient of 10.1 kPa/meter which is reasonable for the type of recovery.

The surface pressure increases if due to pure liquid influx would be equal to 95 meters. The actual recovery was 16 meters. As there is more surface pressure increase than pure liquid could cause, low rate gas was produced during the test.

The average gas rate during the flows was approximately 25 m<sup>3</sup>/d.



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## Production Rates

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Baker Oil Tools  
1300, 401 - 9th Ave. SW, Calgary, Alberta  
(403) 537-3400 \* <http://www.bakeroiltools.com/>

Baker's Ticket: **60-0518**

Date: **Wed 30 Mar 2005**

Customer: **Devon Canada Corp**

Test #: **1**

Well Name: **Eagle Plains K-58**

Interval: **1,193.00 to 1,203.00 meters**

Well Location: **K-58**

Formation: **S1 - Sand**

### Flow Rates For Liquids

#### **1st Flow**

Fluid Gradient: **10.00 kPa/meter**  
Hydrostatic of produced fluid: **17.98 kPa**  
Total Volume Produced: **0.00 cubic meters**  
Production Rate: **0.70 cubic meters/day**

#### **2nd Flow**

Fluid Gradient: **10.00 kPa/meter**  
Hydrostatic of produced fluid: **88.87 kPa**  
Total Volume Produced: **0.02 cubic meters**  
Production Rate: **1.92 cubic meters/day**

### Flow Rates For Gases

#### **1st Flow**

Average Rate: **52 cubic meters/day**  
Maximum Rate: **608 cubic meters/day**  
Minimum Rate: **0 cubic meters/day**

#### **2nd Flow**

Average Rate: **15 cubic meters/day**  
Maximum Rate: **85 cubic meters/day**  
Minimum Rate: **0 cubic meters/day**



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## Summary

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Baker Oil Tools  
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Baker's Ticket: **60-0518**

Date: **Wed 30 Mar 2005**

Customer: **Devon Canada Corp**

Test #: **1**

Well Name: **Eagle Plains K-58**

Interval: **1,193.00 to 1,203.00 meters**

Well Location: **K-58**

Formation: **S1 - Sand**

---

### *1st Flow*

---

Time Open: **19:37:43**  
Test Tool Open For: **9.51 minutes**  
Total Surface Pressure: **2.67 kPa**                      dP/dT: **0.28 kPa/min**  
Hydrostatic of Produced Fluid: **17.98 kPa**                      dP/dT: **1.89 kPa/min**

---

### *1st Shut-In*

---

Time Closed: **19:47:13**  
Pressure Vented After: **63.49 minutes**  
Total Additional Surface Pressure: **-0.40 kPa**                      dP/dT: **-0.01 kPa/min**

---

### *2nd Flow*

---

Time Open: **20:50:42**  
Test Tool Open For: **17.01 minutes**  
Total Surface Pressure: **0.14 kPa**                      dP/dT: **0.01 kPa/min**  
Hydrostatic of Produced Fluid: **88.87 kPa**                      dP/dT: **5.23 kPa/min**

---

### *2nd Shut-In*

---

Time Closed: **21:07:43**  
Pressure Vented After: **5.50 minutes**  
Total Additional Surface Pressure: **0.13 kPa**                      dP/dT: **0.02 kPa/min**



# Closed Chamber Gas Rates

1st Flow

Baker Oil Tools  
1300, 401 - 9th Ave. SW, Calgary, Alberta  
(403) 537-3400 \* <http://www.bakeroiltools.com/>

Baker's Ticket: 60-0518

Date: Wed 30 Mar 2005

Customer: Devon Canada Corp

Test #: 1

Well Name: Eagle Plains K-58

Interval: 1,193.00 to 1,203.00 meters

Well Location: K-58

Formation: S1 - Sand

Time of Day hh:mm:ss	Elapsed min	Pressure kPa	DPDT kPa/min	Gas Rate m3/day
19:37:43	0.00	77.14		
19:38:13	0.50	79.62	4.93	608
19:38:43	1.00	79.44	-0.35	-43
19:39:12	1.50	79.76	0.65	80
19:39:43	2.00	79.61	-0.30	-37
19:40:13	2.50	79.55	-0.13	-16
19:40:42	3.00	79.74	0.39	48
19:41:13	3.50	79.70	-0.09	-11
19:41:42	4.00	79.72	0.04	5
19:42:13	4.50	79.89	0.34	42
19:42:43	5.00	79.76	-0.25	-31
19:43:13	5.50	79.80	0.08	10
19:43:43	6.00	80.08	0.56	69
19:44:13	6.50	80.06	-0.03	-4
19:44:43	7.00	80.04	-0.05	-6
19:45:13	7.50	79.88	-0.31	-38
19:45:43	8.00	79.99	0.21	26
19:46:13	8.50	79.89	-0.21	-26
19:46:43	9.00	80.32	0.86	107
19:47:13	9.51	79.82	-1.01	-124



# Closed Chamber Gas Rates

1st Flow

Baker Oil Tools  
1300, 401 - 9th Ave. SW, Calgary, Alberta  
(403) 537-3400 \* <http://www.bakeroiltools.com/>

Baker's Ticket: 60-0518

Date: Wed 30 Mar 2005

Customer: Devon Canada Corp

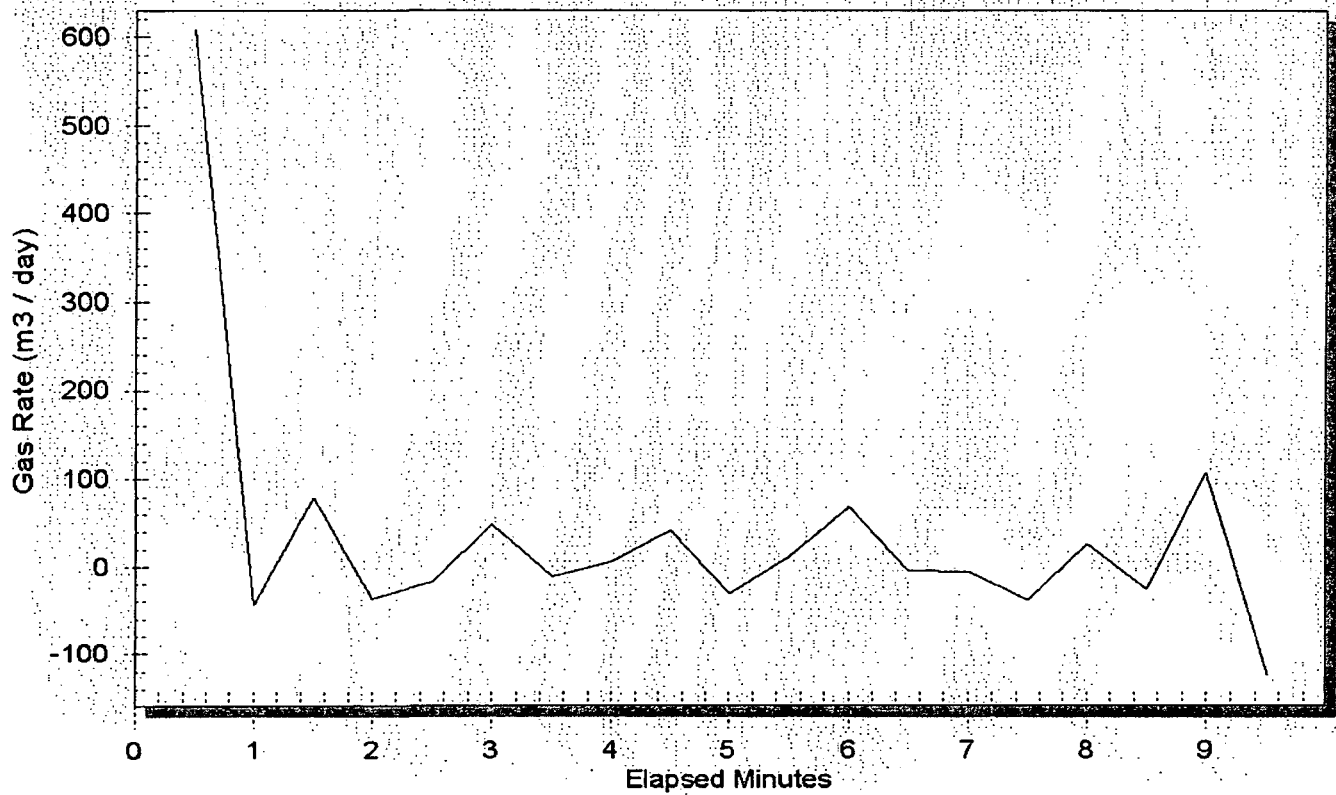
Test #: 1

Well Name: Eagle Plains K-58

Interval: 1,193.00 to 1,203.00 meters

Well Location: K-58

Formation: S1 - Sand





## Closed Chamber Gas Rates

2nd Flow

Baker Oil Tools  
1300, 401 - 9th Ave. SW, Calgary, Alberta  
(403) 537-3400 \* <http://www.bakeroiltools.com/>

Baker's Ticket: 60-0518

Date: Wed 30 Mar 2005

Customer: Devon Canada Corp

Test #: 1

Well Name: Eagle Plains K-58

Interval: 1,193.00 to 1,203.00 meters

Well Location: K-58

Formation: S1 - Sand

Time of Day hh:mm:ss	Elapsed min	Pressure kPa	DPDT kPa/min	Gas Rate m3/day
20:50:42	0.00	79.42		
20:51:12	0.50	79.55	0.26	32
20:51:42	1.00	79.55	0.00	0
20:52:12	1.50	79.49	-0.13	-16
20:52:42	2.00	79.64	0.31	38
20:53:12	2.50	79.62	-0.04	-5
20:53:42	3.00	79.40	-0.43	-54
20:54:12	3.50	79.42	0.04	5
20:54:43	4.00	79.51	0.18	22
20:55:12	4.50	79.45	-0.13	-16
20:55:43	5.00	79.56	0.22	27
20:56:13	5.50	79.62	0.13	16
20:56:43	6.00	79.36	-0.52	-64
20:57:13	6.50	79.51	0.31	38
20:57:43	7.00	79.69	0.35	43
20:58:12	7.50	79.30	-0.78	-97
20:58:43	8.00	79.32	0.04	5
20:59:13	8.50	79.67	0.69	86
20:59:42	9.00	79.52	-0.30	-38
21:00:13	9.50	79.41	-0.21	-26
21:00:43	10.01	79.71	0.60	75
21:01:13	10.51	79.60	-0.22	-27
21:01:42	11.00	79.86	0.52	65
21:02:13	11.51	79.71	-0.30	-37
21:02:43	12.00	79.63	-0.17	-21
21:03:13	12.50	79.69	0.13	16
21:03:43	13.01	79.71	0.04	5
21:04:13	13.50	79.89	0.36	44
21:04:43	14.01	79.72	-0.35	-43
21:05:13	14.51	79.69	-0.04	-5





## Closed Chamber Gas Rates

2nd Flow

Baker Oil Tools  
1300, 401 - 9th Ave. SW, Calgary, Alberta  
(403) 537-3400 \* <http://www.bakeroiltools.com/>

Baker's Ticket: **60-0518**

Date: **Wed 30 Mar 2005**

Customer: **Devon Canada Corp**

Test #: **1**

Well Name: **Eagle Plains K-58**

Interval: **1,193.00 to 1,203.00 meters**

Well Location: **K-58**

Formation: **S1 - Sand**

<b>Time of Day</b> hh:mm:ss	<b>Elapsed</b> min	<b>Pressure</b> kPa	<b>DPDT</b> kPa/min	<b>Gas Rate</b> m3/day
21:05:43	15.01	79.69	0.00	0
21:06:13	15.51	79.65	-0.09	-11
21:06:43	16.01	79.63	-0.04	-5
21:07:13	16.50	79.74	0.22	27
21:07:43	17.01	79.57	-0.34	-42



# Closed Chamber Gas Rates

2nd Flow

Baker Oil Tools  
1300, 401 - 9th Ave. SW, Calgary, Alberta  
(403) 537-3400 \* <http://www.bakeroiltools.com/>

Baker's Ticket: 60-0518

Date: Wed 30 Mar 2005

Customer: Devon Canada Corp

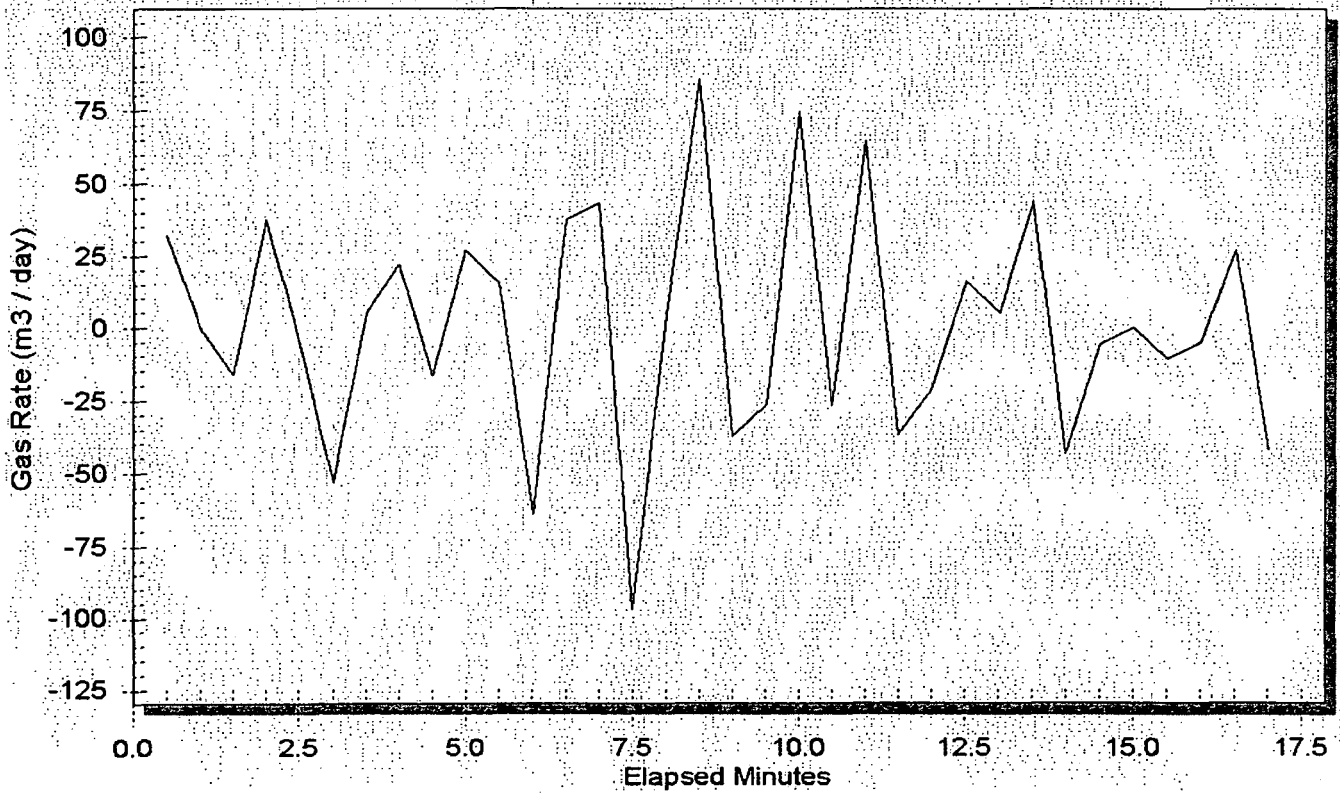
Test #: 1

Well Name: Eagle Plains K-58

Interval: 1,193.00 to 1,203.00 meters

Well Location: K-58

Formation: S1 - Sand





# Surface Pressure

Baker Oil Tools  
1300, 401 - 9th Ave. SW, Calgary, Alberta  
(403) 537-3400 \* <http://www.bakeroiltools.com/>

Baker's Ticket: **60-0518**

Date: **Wed 30 Mar 2005**

Customer: **Devon Canada Corp**

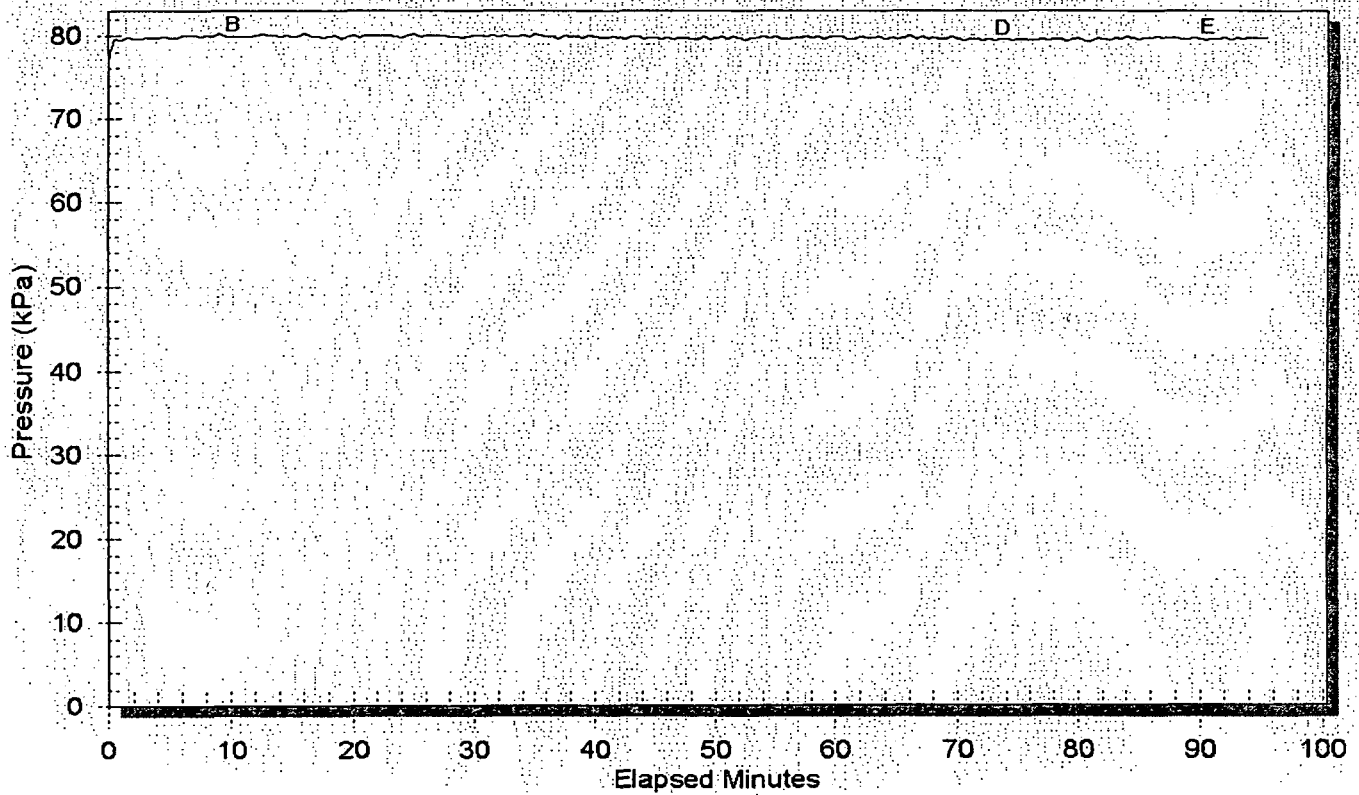
Test #: **1**

Well Name: **Eagle Plains K-58**

Interval: **1,193.00 to 1,203.00 meters**

Well Location: **K-58**

Formation: **S1 - Sand**



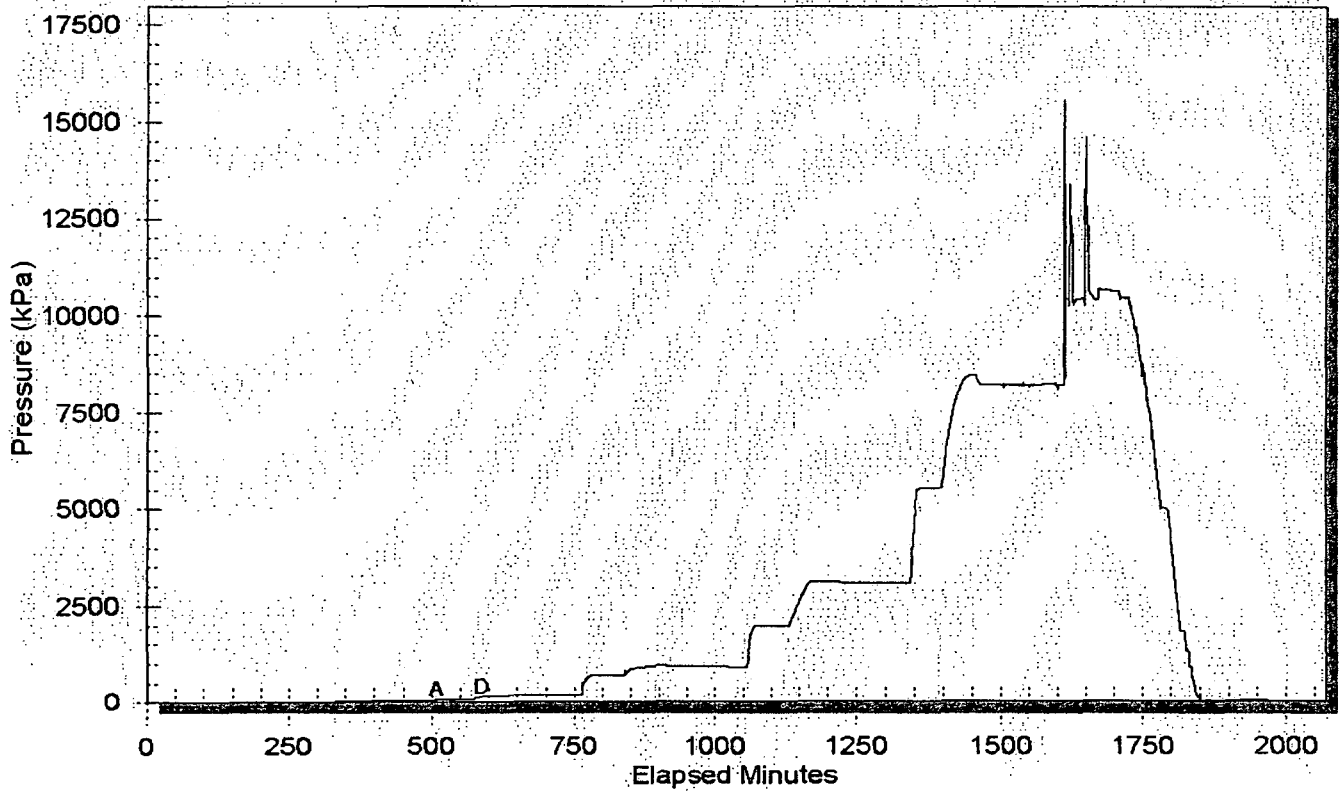
- A Start of 1st Flow
- B End of 1st Flow
- D Start of 2nd Flow
- E End of 2nd Flow



# Recovery Pressure

Baker Oil Tools  
1300, 401 - 9th Ave. SW, Calgary, Alberta  
(403) 537-3400 \* <http://www.bakeroiltools.com/>

Baker's Ticket: <b>60-0518</b>	Date: <b>Wed 30 Mar 2005</b>
Customer: <b>Devon Canada Corp</b>	Test #: <b>1</b>
Well Name: <b>Eagle Plains K-58</b>	Interval: <b>1,193.00 to 1,203.00 meters</b>
Well Location: <b>K-58</b>	Formation: <b>S1 - Sand</b>



A Start of 1st Flow  
D Start of 2nd Flow

# OVERSIZE IMAGE

*24 docs.*

**Final Well Report**

**Devon Canada Corporation**

**Devon Eagle Plains K-58**

**Grid: 66 10'N  
136° 45' W**

**Yukon License: # 1120**

**DATE: June 09, 2005  
Prepared by David Quinn P. Eng.**

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*Appendices may be used to give details on the subjects below.*

- Locality Map**
- Well Summary**
- Time Distribution**
- Deviation and Drift Records**
- Bit Record**
- Stick Diagram, "Pre-Drilled"**



# **I. INTRODUCTION**

## **1.1 Summary**

Devon Canada Corporation drilled a 1278 mMD exploratory well at location designated as Devon Eagle Plains K-58. The well fulfilled a work commitment to the Yukon Government that was originally made by Anderson Exploration Ltd. (predecessor company) in 1999. The well was spudded on February 22<sup>nd</sup>, 2005 and finished drilling operations on April 3<sup>rd</sup>, 2005. The well was found to be non-commercial hydrocarbon bearing and was abandoned.

The K-58 well is located approximately 33.5 km southwest of the Hamlet of Eagle plains, YT on the Dempster Highway and southeast of the highway by 10 km.

Devon Canada Canada was the operator company with no other working interest owners. Ensign Drilling Inc. was contracted for the drilling of this project and taken from Devon's contracted fleet for the 2005 winter program. The rig was moved from its last location in the Tommy Lakes region of NE British Columbia to Eagle Plains. The rig is rated as a 2600 m , double with 520 KW drawworks powered by 600 kw diesel prime movers and two triplex pumps, 560 & 410 KW.

The primary objective of this well was to drill and test for the potential gas reserves in the Chance sands and secondary objectives in the Parkin, Jungle Creek, Canoe formations as indicated on a 2-D seismically-identified structural high.

Construction of the drilling location started January 27, 2005. The access road was built along an existing seismic line. Water was hauled 50 km from the Eagle River and the lease and access road was essentially frozen in with marginal ground disturbance. Extremely cold weather during the construction phase (-40°C), created difficulty saturating the snow cover prior to freezing which caused some water run-off and consequently a higher volume of water consumption occurred.

Ensign Rig #55 was broken down to legal widths / weight loads for transport to the Yukon, February 8 through 12, 2005. The 2200 km move to location commenced February 13<sup>th</sup> with all rig components at location by February 17, 2005. The well was spudded February 22, 2005 after receiving well licence #1120 from the Yukon Energy Mines and Resources.

The well was drilled to 1278m by March 28, 2005. The total drilled depth was short of the original prognosis. Due to spring break up, continued drilling could have jeopardized the removal of the rig from the location. Although the programmed total depth was not achieved the primary zones of interest were exposed.

Two logging runs were performed by Schlumberger evaluating the well from total depth to surface casing, both porosity and resistivity logs were obtained.

A total of five closed chamber drill stem tests were conducted on the zones designated as Canoe sand (S-1), S3A-1, S3A-2, S3A-3 and the Hart River (S3B). All tests failed to yield commercial levels of hydrocarbons.

The well was abandoned with the placement of cement plugs. Casing bowl removed and casing stub cut below ground level.

1.2 Locality Map: See Appendices



10. Difficulties and Delays: .....

Lost Circulation

The surface hole (311m) was drilled with a diverter system to 95m encountering and under pressure Parkin Sand member. The diverter system was employed in the event that the Parkin Sand was overpressured.

Loss of fluid circulation occurred through the interval 95 to 118 meters. A total of 5 plugs were placed to isolate the zone.

Deterioration of the Pad Location

The original plan called for the use of an insulated conductor barrel to be set by rathole rig prior to moving onto the location. However, the limitation of the equipment employed by the Inuvik based contactor precluded the use of the larger size insulated conductor barrel. The decision to employ a conventional barrel was based on the belief that the drilling time would be minimal for this well.

After surface casing was set and drilling to 527m, the ice pad under the rig adjacent to the cribbing had melted / evaporated. This occurred in spite of Devon's no rig washing policy and heat deflection (away from the ground) from the BOP heaters.

The pad had melted under the rig mats and threatened to melt under the rig substructure beams making the rig unstable.

Devon elected to fill the cavity by spray foam insulation provided by a contractor from Inuvik. Once this was done no additional pad deterioration occurred.

Deviation Control

The wellbore built out 3° deviation on surface hole. Once the main hole was drilled to 424 mKB, the deviation increased to 4.25°. Drilling continued to 527mKB in a controlled fashion, decreasing weight and increasing rotary speed. A low speed high torque motor with MWD equipment was employed to finish the well. The inclination angle was allowed to build to 6° at total depth.

11. Total Well Cost: .....Field Estimate: \$ 8.5 MM CDN  
(includes construction, drilling, evaluation and reclamation)

12. Deviated Wells Require Bottom Hole Co-ordinates:

Bottom hole location from well center.

North: ..... 35.05 meters  
East: ..... 36.44 meters  
Azimuth ..... 48.98 degrees

### III. SUMMARY OF DRILLING AND RELATED OPERATIONS

1. Elevations:

Ground:..... 599.76 (m above sea level)  
KB: ..... 604.76 (m above sea level)  
KB To Casing Flange:..... Not Applicable (KB to CF)

2. Total Depth:

FTD: ..... 1278.0 mKB  
TVD: ..... 1276.0 mKB

3. Date and Hour Spudded:.....2005/02/22, 2145 hrs

4. Date Drilling Completed:.....2005/03/28  
(Rig initiates completion activity)

5. Date of Drilling Rig Release:.....2005/04/03, 2400 hrs.

6. Well status: ..... Wellbore Abandoned

7. Hole Sizes and Depths:

Conductor Hole:           762   406 mm to ..... 20 mKB  
Surface:                           311.2 mm to ..... 362 mKB  
Main Hole:                       222.2 mm to ..... 1278 m KB

8. Casing and Cementing Record:

See DFW (Daily Well Reports) ..... for detailed reports:

Conductor:                   406   762 mm to . ..... 20 mKB  
Sanjel cementing company

Surface Casing:                   244.5 mm to ..... 360.5 mKB  
244.5 mm, 53.58 kg/m, J-55, Rge 3, LT&C at 360.5 m  
Cemented with: Lead 5.8 m<sup>3</sup> (7.7 t) Artic cement, 1885 kg/m<sup>3</sup>  
Tail: 13.6 m<sup>3</sup> (15.5 tonne) Expandomix 1770 kg/m<sup>3</sup>

	Production Casing;	Not applicable, wellbore abandoned
	<u>Wellhead:</u>	
	Casing Bowl Size:	CWC-SLIPLOC 279mm, 21MPa x 244 mm
	Wellhead Make:	Vetco Gray
	Status:	Casing Bowl removed
9.	<u>Sidetracked Hole:</u>	Not Applicable
11.	<u>Drilling Fluid:</u>	
	Conductor Hole:	Drilled Dry with Conductor Rig
	Surface Hole:	Gel Chemical system
	Properties:	Viscosity: 50 sec/L
		Density: 1170 kg/m <sup>3</sup>
		PH: 11
		Water loss: -
		Solids: 5 – 10 %
		Gels: 5 / 10
		Filter Cake: -
		PV / YP: 15 / 6
	Main:	Gel chemical system
	Properties:	Viscosity: 60 – 70 sec/L
		Density: 120 - 1300 kg/m <sup>3</sup>
		PH: 10 - 11
		Water loss: 6 – 7.5 ml
		Solids: 7 to 11 %
		Gels: 3 / 6
		Filter Cake: 1 mm
		PV / YP: 36 / 10

12. Fishing Operations:

The fishing operations occurred on this well. The drill collars failed at 486 and 527 mKB. The fishes were recovered on single runs with minimal time delays. Devon contracted Baker Oil Tools to provide a fishing package on site due to the remoteness of the well. A complete replacement drill collar string was bought from Edmonton and the well was drilled without further incident.

13. Time Distribution:..... See Appendices

14. Deviation Surveys: See Appendices

15. Well Kicks and Well Control Operations: .....Not Applicable

16. Formation Leak Off Tests:

Depth:	365 m
Fluid Density:	1150 kg/m <sup>3</sup>
Applied Pressure:	2,500 kPa
Hydrostatic Press.	4118 kPa
Casing Setting Depth:	362 mKB
Leak-off test	18.3 kPa /m

17. Drill Stem Test Summary:

DST # 1, Closed Chamber Test		
Interval:	1193.0 to 1203.0 mKB	
Formation:	S-1, Canoe sand	
IHP	15,561	kPa
PFI	508	kPa
PFF	518	kPa
ISI	10,306	kPa
2 <sup>nd</sup> FI	551	kPa
2 <sup>nd</sup> FF	582	kPa
FSI	9564	kPa
FHP	15558	kPa

Recovery; See DST # 4



DST # 2, Closed Chamber Test, Re-set

Interval: 1041.0 to 1051.0 mKB

Formation: S3A-1 sand

IHP 13,616 kPa

PFI 807 kPa

PFF 959 kPa

ISI 2,533 kPa

2<sup>nd</sup>FI 1,033 kPa

2<sup>nd</sup>FF 1,304 kPa

FSI 1,956 kPa

FHP 13,575 kPa

Recovery; See DST # 4

DST # 3, Closed Chamber Test, Re-set

Interval: 997.0 to 1007.0 mKB

Formation: S3A-2 sand

IHP 12,824 kPa

PFI 1,808 kPa

PFF 2,350 kPa

ISI 8,865 kPa

2<sup>nd</sup>FI 2,488 kPa

2<sup>nd</sup>FF 3,450 kPa

FSI 8,766 kPa

FHP 12,861 kPa

Recovery; See DST # 4

DST # 4, Closed Chamber Test, Re-set

Interval: 985.0 to 995.0 mKB

Formation: S3A-3 sand

IHP 12,860 kPa

PFI 5,295 kPa

PFF 6,174 kPa

ISI 8,893 kPa

2<sup>nd</sup>FI 6,552 kPa

2<sup>nd</sup>FF 8,838 kPa

FSI 8,893 kPa

FHP 12,832 kPa

Recovery; tests 1 – 4 combined, 815 m of “gasified brackish water with mud on top”, field salinity 7000.

DST # 5, Closed Chamber Test

Interval:	427.0 to 453.0	mKB
Formation:	S3B,	Hart River sand
IHP	5,730	kPa
PFI	1,031	kPa
PFF	1,482	kPa
ISI	3,131	kPa
2 <sup>nd</sup> FI	1,623	kPa
2 <sup>nd</sup> FF	1,981	kPa
FSI	2,474	kPa
FHP	6,644	kPa

Recovery; 130.0 m of "slightly gasified drilling fluid", field salinity 3000

18. Abandonment Plugs: A total of seven plus were set in the wellbore to abandoned the well.

Plug # 1

Interval (KB): 1278 to 1068  
Cement Type: Class G, 0:1:0, 0.3% CFL-3, 0.5% SPC-2, 1900 kg/m<sup>3</sup>  
Slurry Volume: 6 m<sup>3</sup>  
Tonnes: 7.8

Plug # 2

Interval (KB): 1038 to 828  
Cement Type: Class G, 0:1:0, 0.3% CFL-3, 0.5% SPC-2, 1900 kg/m<sup>3</sup>  
Slurry Volume: 6 m<sup>3</sup>  
Tonnes: 7.8

Plug # 3

Interval (KB): 796 to 654  
Cement Type: Class G, 0:1:0, 0.3% CFL-3, 0.5% SPC-2, 1900 kg/m<sup>3</sup>  
Slurry Volume: 6 m<sup>3</sup>  
Tonnes: 7.8

Plug # 4

Interval (KB): 625 to 475  
Cement Type: Class G, 1:1:2, 0.5% CFR, 1646 kg/m<sup>3</sup>  
Slurry Volume: 6.7 m<sup>3</sup>  
Tonnes: 7.0

Plug # 5  
Interval (KB): 464 to 398  
Cement Type: Class G, 1:1:2, 0.5% CFR, 1646 kg/m<sup>3</sup>  
Slurry Volume: 6.7 m<sup>3</sup>  
Tonnes: 7.0

Plug # 6  
Interval (KB): 398 to 175  
Cement Type: Expando mix, 3% LCCI, 1646 kg/m<sup>3</sup>  
Slurry Volume: 11.44 m<sup>3</sup>  
Tonnes: 12.7

Plug # 7  
Interval (KB): 170 to Surface  
Cement Type: Glacial 0.3% CFL-3, 0.5% SPC-2  
Slurry Volume: 6 m<sup>3</sup>  
Tonnes: 7.8

Casing stub dug down 1.5 m, cut and capped with welded plate.

19. Completion Record: No completion took place, wellbore was abandoned.

## GEOLOGIC INFORMATION

**Geological Summary:** The two primary zones are discussed

### **PRIMARY ZONE:**

#### **CHANCE SAND 998.0 m MD (-393.7 m SS)**

The Chance Sand is the porous section within the S3A sand of the Hart River Formation. The S3A sand top is at 976m, -371m subsea and the base was at 1034m, as described from samples. The S3A is light grey to salt and pepper with a grain size of very fine to upper coarse. In the low porosity sections, the coarse grained component is missing. The grains are poorly sorted and subrounded to rounded. The tight sand sections are mainly 60% quartz grains, 10% dark minerals and 30% calcite cement, but the Chance sand and other porosity zones are 75% quartz, 15% dark minerals and 10% calcite cement. Through the S3A sand there is minor amounts of a grey chert. In the Chance sand, rare light brown oil staining was seen and 3% to 9% intergranular porosity. A yellow brown fluorescence and weak white massive oil cut was one of the better shows. The rest are poor shows mainly seen as spotted yellow brown fluorescence and white halo cut. There was a slight gas response above the background readings in the sand for the Chance sand porosity section.

**CONCLUSION:** The Chance sand shows some economic potential.

### **SECONDARY ZONE:**

#### **PARKIN SAND 92.0 m MD (512.3 m SS)**

The Parkin Sand is light brown to light grey in colour with minor red brown colouration. The sand is composed of 50% quartz and grains, 25% chert pebbles, 10% other dark minerals, 15% calcite cement and iron stained clay matrix. The grains are fine to coarse in size, poorly sorted, and subangular to subrounded. In some of the samples, there is a conglomerate portion, where the sand grades to a pebble conglomerate. Porosity ranged from 6% to 12% intergranular porosity which is controlled by the sand since the conglomerate is matrix supported. No oil shows were observed and no gas readings beyond the background were seen. The Parkin Sand was a lost circulation zone where five cement plugs had to set. Sample quality for this zone was poor due to drilling cement fragments and the lost circulation of material recovered. Also, the 100m, 110m and 115m samples are missing due to drilling ahead without returns. There was no gas date where there were no gas returns.

**CONCLUSION:** The Parkin sand shows no economic potential.

### **Formation tops**

<u>FORMATION</u>	<u>PROGNOSED(m)</u>		<u>SAMPLE(m)</u>		<u>LOG TOPS(m)</u>			
	<u>MD</u>	<u>TVD</u>	<u>MD</u>	<u>TVD</u>	<u>SS</u>	<u>MD</u>	<u>TVD</u>	<u>SS</u>
Fish Branch		0.0		19.0	585.3		19.5	584.8
Parkin Shale	1.3	1.8		52.5	551.8		48.0	556.3
Parkin Sand	20.3	20.8		92.0	512.3		95.0	509.3
Whitestone	50.3	50.8		118.0	486.3		116.7	487.6
Jungle Creek SS	220.3	220.8		229.0	375.3		231.2	373.1
Blackie	252.3	252.8		259.5	344.8		258.7	345.6
Hart River	388.3	388.8		437.0	167.3		441.2	163.1
S3A	763.3	763.8		882.0	-277.2		883.6	-279.3
Chance	875.3	875.8		998.0	-393.2		998.0	-393.7
S1				1183.5	-579.2		1183.3	-579.0
Canoe	1087.3	1087.8						
Ford Lake	1324.3	1324.8						
TD, undefined	1374.3	1374.8		1278.0	-673.2		1278.0	-673.7

## **WELL EVALUATION**

### **Coring Record**

No cores were cut in this well.

### **Logging Program**

Logging company: Schlumberger.

Logs run:

Runs #1 and #2, March 28, 2005

Platform Express: Compensated Neutron Dual Lithology Density Log

Platform Express: Array Induction – RXO Log

Platform Express: Micro – Resistivity Log

Platform Express: Resistivity – Porosity (half scale log)

High Resolution Laterlog Array

Dipole Shear Sonic Image Log

Cement Volume Log

Gas detection log was run from surface to TD.

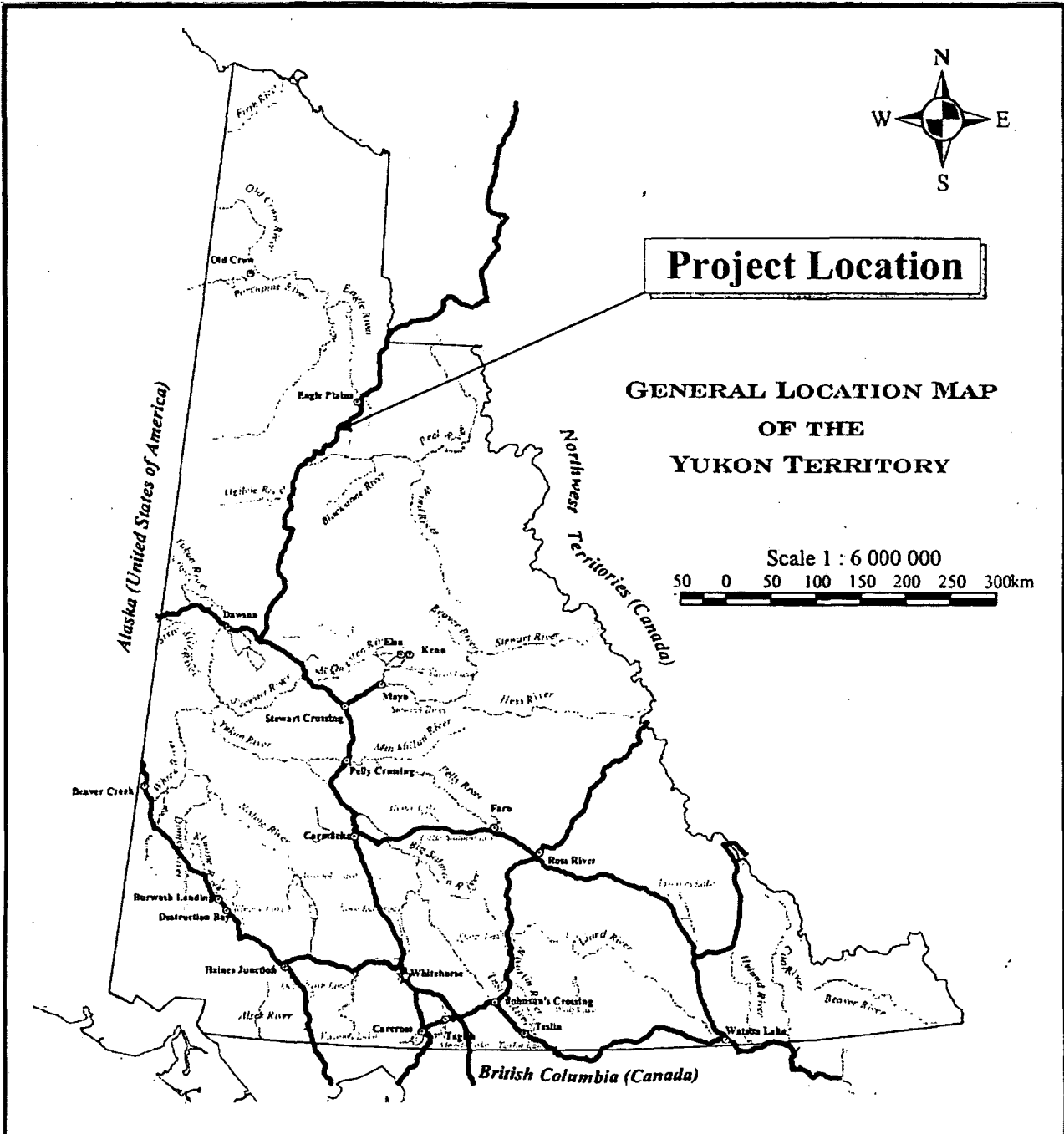
No VSP's were carried out on this well.

## **V. ENVIRONMENTAL WELL ANALYSIS**

Environmental Details will be addressed in a separate report.

**VI. APPENDICES TO FINAL WELL REPORT**

**Locality Map**  
**Well Summary**  
**Time Distribution**  
**Deviation and Drift Records**  
**Bit Record**  
**Stick Diagram, "pre-drilled"**



<b>Eagle Plains 2004 - 2005 Drill Program</b>	
Drawn By: HD	Figure 1
Checked By: DDC	Date: 2004/08/10
Our file D:\Project\WIP\Projects\DEV-04-02\gismad\Fig1.mxd	



## WELL SUMMARY AND FORMATION EVALUATIONS

### DEVON EAGLE PLAINS 300K586610136450

The Devon Eagle Plains K58 is a wildcat exploration well in the Yukon Territory that was drilled to evaluate the potential for future development of the area. The well was spudded on February 22, 2005 at 21:45 hours and drilling was completed, March 28, 2005 at 12:15 hours. The target zones for this well are the Parkin Sand (secondary) and Hart River (secondary) with the Chance sand (primary). The surface hole was drilled with 311mm bits to a depth of 362m and 244.5mm casing was then run. The main hole was drilled using 222mm tri-cone bits to a total depth of 1278m.

At spud, the problem with Chimo EDR communicating with Continental Labs mudlogger was corrected. The hole depth recorder would not function from surface to 53m depth. Chimo was able to correct the problem remotely. On February 24, there was a Chimo component failure and again drilling continued without hole depth data. Both times, the crews marked meters on kelly and recorded the drilling times manually. The Chimo drill recorder was repaired at 140m.

On surface hole, circulation was lost at 95m, and multiple lost circulation pills could not stop the volume losses. Therefore, the well was drilled ahead blind without returns to 100m to get through the lost circulation zone and the crews ran cement plugs. Fluid losses continued after the first plug, so a second cement plug was set. After drilling out the cement plugs, the rig was able to drill ahead to 106m with partial returns so the 105m sample was caught. At the connection at 106.3m, all circulation was lost while working the pipe and drilling continued ahead blind to 115m where another cement plug was run to seal off the Parkin Sand. After drilling out plug #3, drilling proceeded to 142m where another lost circulation zone was penetrated. While drilling with partial returns to about 136m, the crews caught samples from 115m to 135m. Due to the continued loss of circulation at 136m, the fourth cement plug was required. On the trip out to run plug #4, the hole was tight and when running in with open ended drill pipe, the well bridged off at 28m. Crews attempted to wash past the bridge with an open ended drill string but failed. Reaming operations were concluded as a result of fluid losses at the Parkin sandstone. An open ended assembly was run to bottom and plugs 4 and 5 were set. Drilling resumed without incident and the surface hole was drilled to 362m where surface casing was set. Surface hole drilling was completed on March 3, 2005 at 9:15 hours.

Drill out of surface casing shoe occurred at 21:30 hours on March 6, 2005. The main hole was drilled using 222mm bits. While drilling the main hole, the drill string parted at 486.7m. When tripped out, it was found that it had parted in the drill collars. Fishing for the rest of the collars began using an overshot tool and it was able to capture the fish on the first attempt. The drill string parted a second time at 527.2m, also as a result of the collars twisting off. The second fish was four collars and the bit. The second fish was recovered on the first attempt. After the second fish was recovered, it was decided that all the heavy weight drill pipe and drill collars would be inspected before drilling continued. One joint of heavy weight drill pipe, four drill collars and the jars failed the inspection, therefore drilling was placed on hold until replacements arrived. Also, it was decided that Omni directional services would be used to control the deviation problem. When the directional tools and new collars arrived they were made up and the rig waited on orders to drill ahead. The jars arrived later that same day, and a trip was done to put them in the drill string. While making up the directional tools, a spray foam insulation unit came out and insulated the cellar to stop the permafrost collapse in the substructure, it was also injected under the #1 pump.

The next drilling delay was for repairs to the shaker including some time spent waiting for parts. The weld on the first repair did not last. The first breakdown happened at 734m and the second at 745m where drilling was suspended until parts arrived and were installed. During both breakdowns, the rig could not circulate so the drill string was tripped into the surface casing until the shaker was fixed.

On March 24, 2005, the Chimo pit volume and return flow failed and about two hours were needed to repair the system. At 1102.5m, a survey was taken and an unexpected inclination was recorded. The well had increased in deviation while rotating from about 1000m, so two slides were done to correct the deviation. When the survey below the first slide displayed an increase in deviation when a decrease was expected, a trip was done to determine whether there was a problem with the directional tools. No problems were noted.

Drilling continued with two more bit trips. On the afternoon of Monday, March 28, 2005, Devon decided that drilling would end and drilling was halted at 1278.0m. After a wiper trip, the drill string was tripped out to run wireline logs with Schlumberger. The logging program was four runs. Run #1 was Schlumberger's PEX-LDT tool, the data was transmitted to Calgary during run #2 which was, HRLA-DSI tools. On March 29, 2005, while finishing logging run #2, Devon was to select points for the sidewall coring on run #3. The sidewall coring program and FMI log were cancelled. From the logging information and geological samples, Devon decided that some drill stem tests would be run. The run was eventually abandoned.

Samples were not caught due to lack of returns while drilling ahead blind in lost circulation zones at 100m, 110m, 115m & 140m on surface hole. Samples were collected below the conductor barrel at 20.0 meters to total depth for Devon Canada Ltd. and the Yukon government. A Continental Labs Ltd. gas chromatograph was used from 14m to Total Depth.



Devon Canada Corporation  
**Time Distribution Summary**

Legal Well Name: DEVON EAGLE PLAINS K-58  
 Common Well Name: DEVON EAGLE PLAINS K-58  
 Event Name: ORIG DRILLING  
 Contractor Name: ENSIGN DRILLING  
 Rig Name: ENSIGN DRILLING  
 Start: 02/08/2005  
 Rig Release: 04/03/2005  
 Spud Date: 02/02/2005  
 End: 04/03/2005  
 Rig Number: 55

Code	Operation	Total Hours	Percentage
01	MOVING	35.75	3.22
02	RIG UP	32.00	2.88
03	RIG DOWN	38.50	3.46
10	DRILLING	136.25	12.26
11	DIRECTIONAL DRILLING	235.25	21.17
16	SURVEY	15.00	1.35
17	C & C - DRILLING	57.00	5.13
20	TRIPS	118.00	10.62
21	WASH TO BOTTOM	1.00	0.09
22	HANDLING TOOLS	17.75	1.60
31	WELL CONTROL	0.50	0.04
40	REAMING	18.75	1.69
45	FISHING	35.50	3.19
50	RIG SERVICE	25.75	2.32
51	SLIP & CUT	0.50	0.04
52	RIG REPAIR	23.25	2.09
53	3RD PARTY REPAIR	3.00	0.27
60	LOG	11.00	0.99
61	DST	33.00	2.97
70	RUNNING CASING / LINER	7.75	0.70
71	C & C FOR CEMENT	2.25	0.20
72	MIX AND DISPLACE	2.25	0.20
73	WAITING ON CEMENT	33.75	3.04
74	DRILL OUT CEMENT	31.50	2.83
75	BOP ACT-PT & NIPPLE UP	32.00	2.88
76	PRESSURE TEST CASING	3.50	0.31
79	PLUG & ABANDON	25.75	2.32
81	WAITING ON ORDERS	2.25	0.20
82	WAITING ON DAYLIGHT	20.00	1.80
83	WAITING OTHER	89.00	8.01
90	SAFETY MEETING	21.75	1.96
91	BOP DRILL	2.00	0.18

**TOTAL** **1,111.50** **100.00**

# Omni Drilling Technologies Inc.

## Standard Survey Report

Company: DEVON CANADA CORPORATION	Date: 6/7/2005	Time: 11:48:48	Page: 1
Field: Eagle Plains	Co-ordinate(NE) Reference:	Site: K-58, True North	
Site: K-58	Vertical (TVD) Reference:	KB Elevation 604.8 above Mean Sea Level	
Well: Devon Eagle Plains	Section (VS) Reference:	Well (0:0E,0.0N,0.0Az)	
Wellpath: Omni Job# 702	Survey Calculation Method:	Minimum Curvature	

Field: Eagle Plains		
Map System: Canadian UTM Zones (NAD83/GRS80)	Map Zone:	UTM Zone 10, North 126W to 120W
Ellipsoid: WGS 1984	North Reference:	True
Sys Datum: Mean Sea Level	Geomagnetic Model:	igrf2000

Site: K-58			
Site Position:	Northing:	m	Latitude:
From: Local Only	Easting:	m	Longitude:
Position Uncertainty:	0.00 m		Magnetic Declination: 0.00 deg
Water Depth:	0.00 m		Grid Convergence: deg

Well: Devon Eagle Plains					
Well Position:	+N/-S	0.00 m	Northing:	m	Latitude:
From Slot:	+E/-W	0.00 m	Easting:	m	Longitude:
Position Uncertainty:	0.00 m				

Wellpath: Omni Job# 702	Drilled From:	Surface
Vertical Section: +N/-S	Tie-on Depth:	m
From: Well +E/-W	V.Section Direction:	0.00 deg
Measured Depth Reference: KB Elevation	604.76 m	Above System Datum: Mean Sea Level

Survey: Directional Surveys	Start Date:	6/7/2005
Company: Omni Drilling Technologies Inc	Engineer:	Roopa Dattani
Tool:		

Survey: Directional Surveys										
MD	Incl	Azim	TVD	+N/-S	+E/-W	VS	DLS	Build	Turn	Tool/Comment
m	deg	deg	m	m	m	m	deg/30m	deg/30m	deg/30m	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	
360.50	0.00	0.00	360.50	0.00	0.00	0.00	0.000	0.000	0.000	
369.00	2.60	52.90	369.00	0.12	0.15	0.12	9.176	9.176	0.000	
513.90	4.00	60.70	513.65	4.57	7.18	4.57	0.304	0.290	1.615	
528.35	4.20	57.70	528.07	5.10	8.07	5.10	0.609	0.415	-6.228	
537.95	4.20	58.90	537.64	5.48	8.66	5.48	0.183	0.000	-2.500	
547.12	4.60	54.90	546.78	5.88	9.24	5.88	1.401	1.309	-6.543	
556.29	4.80	52.90	555.92	6.31	9.84	6.31	0.525	0.000	-6.543	
565.75	4.30	48.90	565.36	6.77	10.41	6.77	1.368	-0.951	-12.685	
575.38	3.70	43.30	574.96	7.24	10.89	7.24	2.228	-1.869	-17.445	
585.18	3.60	36.60	584.74	7.71	11.29	7.71	1.340	-0.306	-20.510	
594.96	3.80	33.50	594.50	8.23	11.65	8.23	0.868	0.613	-9.509	
604.59	3.90	33.30	604.11	8.77	12.01	8.77	0.314	0.312	-0.623	
614.26	3.60	33.40	613.76	9.30	12.36	9.30	0.931	-0.931	0.310	
623.48	3.10	34.70	622.96	9.74	12.66	9.74	1.645	-1.627	4.230	
632.83	2.80	33.90	632.30	10.14	12.93	10.14	0.972	-0.963	-2.567	
642.40	2.70	32.70	641.86	10.52	13.18	10.52	0.362	-0.313	-3.782	
651.57	2.70	28.70	651.02	10.90	13.40	10.90	0.616	0.000	-13.086	
661.33	2.60	27.20	660.77	11.29	13.62	11.29	0.374	-0.307	-4.611	
670.86	2.50	27.60	670.29	11.67	13.81	11.67	0.320	-0.315	1.259	
680.67	2.40	28.30	680.09	12.04	14.01	12.04	0.319	-0.308	2.141	
689.87	2.50	27.00	689.28	12.39	14.19	12.39	0.373	0.326	-4.239	
699.04	2.80	21.80	698.44	12.78	14.36	12.78	1.257	0.981	-17.012	
708.61	3.10	22.20	708.00	13.23	14.55	13.23	0.943	0.940	1.254	
718.30	3.50	21.50	717.67	13.75	14.75	13.75	1.245	1.238	-2.167	
727.78	3.40	26.10	727.14	14.27	14.98	14.27	0.931	-0.316	14.557	

# Omni Drilling Technologies Inc.

## Standard Survey Report

<b>Company:</b> DEVON CANADA CORPORATION	<b>Date:</b> 6/7/2005	<b>Time:</b> 11:48:48	<b>Page:</b> 2
<b>Field:</b> Eagle Plains	<b>Co-ordinate(NE) Reference:</b>	<b>Site:</b> K-58; True North	
<b>Site:</b> K-58	<b>Vertical (TVD) Reference:</b>	<b>KB Elevation</b> 604.8 above Mean Sea Level	
<b>Well:</b> Devon Eagle Plains	<b>Section (VS) Reference:</b>	<b>Well (0.0E,0.0N,0.0Azi)</b>	
<b>Wellpath:</b> Omni Job# 702	<b>Survey Calculation Method:</b>	<b>Minimum Curvature</b>	

**Survey:** Directional Surveys

MD m	Incl deg	Azim deg	TVD m	+N/S m	+E/W m	VS m	DLS deg/30m	Build deg/30m	Turn deg/30m	Tool/Comment
737.52	3.10	29.40	736.86	14.76	15.24	14.76	1.089	-0.924	10.164	
747.17	2.50	29.40	746.50	15.17	15.47	15.17	1.865	-1.865	0.000	
756.87	2.10	26.90	756.19	15.51	15.66	15.51	1.275	-1.237	-7.732	
766.08	1.80	20.20	765.40	15.80	15.78	15.80	1.226	-0.977	-21.824	
775.86	1.70	8.00	775.17	16.09	15.86	16.09	1.181	-0.307	-37.423	
785.03	1.70	0.40	784.34	16.36	15.88	16.36	0.737	0.000	-24.864	
794.30	1.70	354.70	793.60	16.63	15.86	16.63	0.547	0.000	-18.447	
804.12	1.70	356.10	803.42	16.92	15.84	16.92	0.127	0.000	4.277	
813.72	1.70	356.30	813.02	17.21	15.82	17.21	0.019	0.000	0.625	
823.33	1.70	355.40	822.62	17.49	15.80	17.49	0.083	0.000	-2.810	
832.50	1.60	354.60	831.79	17.76	15.78	17.76	0.336	-0.327	-2.617	
841.70	1.50	355.40	840.98	18.00	15.76	18.00	0.334	-0.326	2.609	
850.93	1.40	354.40	850.21	18.24	15.74	18.24	0.335	-0.325	-3.250	
860.36	1.50	354.00	859.64	18.47	15.71	18.47	0.320	0.318	-1.273	
870.07	1.40	354.10	869.35	18.72	15.69	18.72	0.309	-0.309	0.309	
879.27	1.30	346.20	878.54	18.93	15.65	18.93	0.688	-0.326	-25.761	
888.96	1.20	343.70	888.23	19.13	15.60	19.13	0.353	-0.310	-7.740	
898.62	1.00	349.50	897.89	19.31	15.55	19.31	0.710	-0.621	18.012	
908.29	1.10	353.40	907.56	19.49	15.53	19.49	0.381	0.310	12.099	
918.02	1.10	349.40	917.29	19.67	15.50	19.67	0.237	0.000	-12.333	
927.45	1.30	352.10	926.71	19.87	15.47	19.87	0.661	0.636	8.590	
936.97	1.40	354.50	936.23	20.09	15.44	20.09	0.362	0.315	7.563	
946.39	1.40	2.40	945.65	20.32	15.43	20.32	0.614	0.000	25.159	
956.21	1.20	4.00	955.47	20.54	15.45	20.54	0.621	-0.611	4.888	
965.78	1.20	15.70	965.03	20.74	15.48	20.74	0.767	0.000	36.677	
975.21	1.10	26.00	974.46	20.92	15.55	20.92	0.729	-0.318	32.768	
984.40	1.10	26.70	983.65	21.08	15.63	21.08	0.044	0.000	2.285	
993.68	1.30	34.90	992.93	21.24	15.73	21.24	0.851	0.647	26.509	
1003.02	1.30	35.20	1002.27	21.41	15.85	21.41	0.022	0.000	0.964	
1012.29	1.70	37.10	1011.53	21.61	15.99	21.61	1.304	1.294	6.149	
1021.40	1.90	41.00	1020.64	21.83	16.17	21.83	0.772	0.659	12.843	
1030.78	2.20	40.80	1030.01	22.09	16.39	22.09	0.960	0.959	-0.640	
1040.16	2.20	41.20	1039.38	22.36	16.63	22.36	0.049	0.000	1.279	
1049.37	2.00	51.20	1048.59	22.59	16.87	22.59	1.357	-0.651	32.573	
1058.79	2.10	63.70	1058.00	22.77	17.15	22.77	1.456	0.318	39.809	
1068.04	2.80	64.00	1067.24	22.94	17.51	22.94	2.271	2.270	0.973	
1077.44	3.50	67.20	1076.63	23.16	17.98	23.16	2.303	2.234	10.213	
1086.58	4.30	65.80	1085.75	23.41	18.55	23.41	2.644	2.626	-4.595	
1096.09	5.10	65.50	1095.23	23.73	19.26	23.73	2.525	2.524	-0.946	
1105.42	5.80	66.10	1104.51	24.09	20.07	24.09	2.258	2.251	1.929	
1114.60	6.30	66.00	1113.64	24.48	20.95	24.48	1.634	1.634	-0.327	
1123.99	6.20	64.10	1122.98	24.91	21.88	24.91	0.734	-0.319	-6.070	
1133.09	6.10	62.70	1132.02	25.35	22.75	25.35	0.594	-0.330	-4.615	
1142.66	6.00	59.90	1141.54	25.83	23.63	25.83	0.977	-0.313	-8.777	
1151.94	6.30	57.00	1150.77	26.35	24.48	26.35	1.396	0.970	-9.375	
1161.36	6.70	56.20	1160.13	26.94	25.37	26.94	1.306	1.274	-2.548	
1170.75	7.20	55.60	1169.45	27.58	26.31	27.58	1.614	1.597	-1.917	
1180.10	7.50	56.90	1178.72	28.24	27.30	28.24	1.101	0.963	4.171	
1189.06	7.70	57.50	1187.60	28.88	28.30	28.88	0.720	0.670	2.009	
1198.10	7.80	58.40	1196.56	29.53	29.33	29.53	0.522	0.332	2.987	
1207.72	7.60	59.10	1206.09	30.20	30.44	30.20	0.689	-0.624	2.183	
1217.30	6.90	57.90	1215.60	30.83	31.47	30.83	2.243	-2.192	-3.758	
1226.50	6.30	53.90	1224.74	31.42	32.34	31.42	2.464	-1.957	-13.043	
1235.76	5.80	50.60	1233.94	32.02	33.12	32.02	1.973	-1.620	-10.691	

## Omni Drilling Technologies Inc. Standard Survey Report

Company: DEVON CANADA CORPORATION	Date: 6/7/2005	Time: 11:48:48	Page: 3
Field: Eagle Plains	Co-ordinate(NE) Reference: Site: K-58, True North		
Site: K-58	Vertical (TVD) Reference: KB Elevation 604.8 above Mean Sea Level		
Well: Devon Eagle Plains	Section (VS) Reference: Well (0.0E,0.0N,0.0Azi)		
Wellpath: Omni Job# 702	Survey Calculation Method: Minimum Curvature		

Survey: Directional Surveys

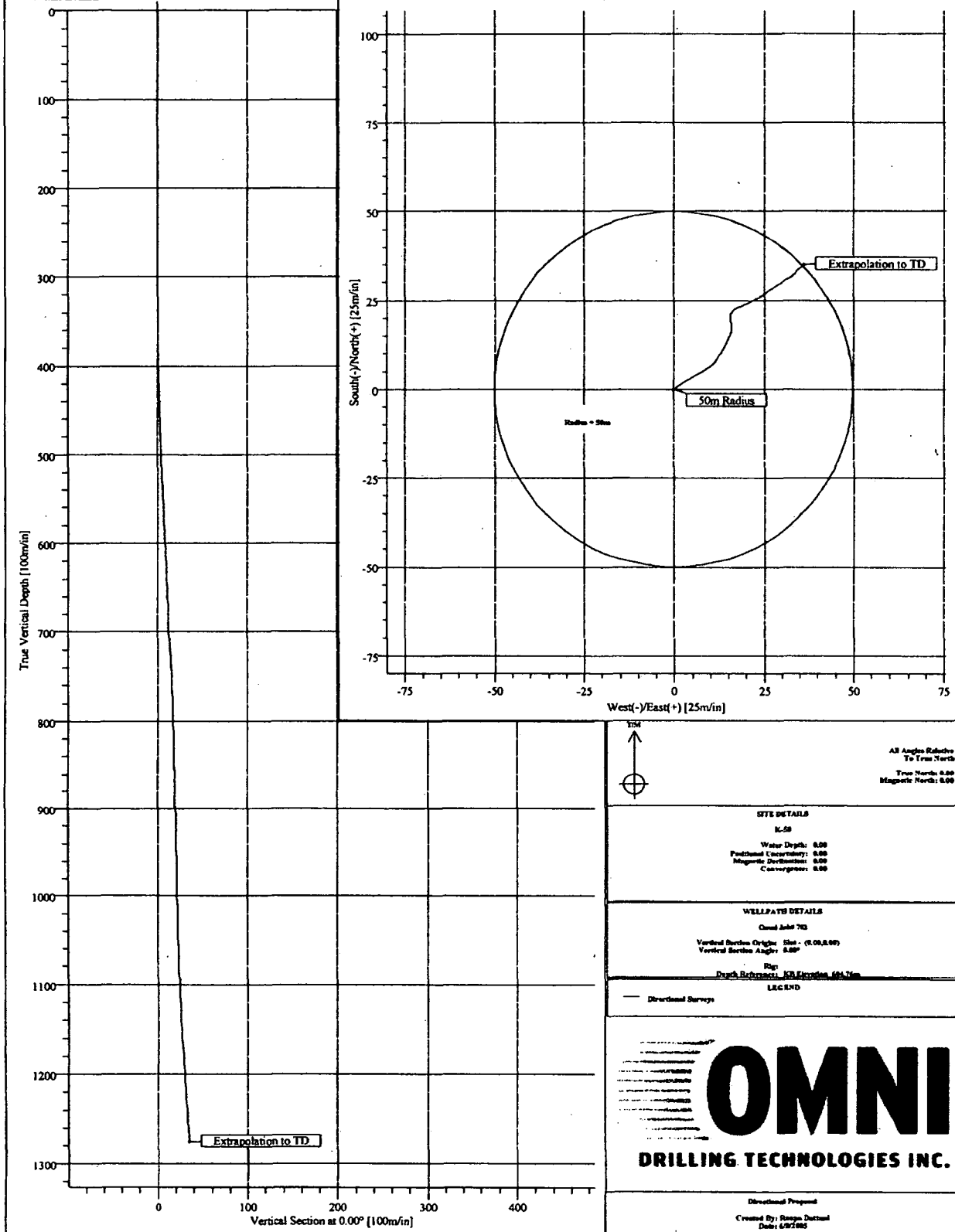
MD m	Incl deg	Azim deg	TVD m	+N-S m	+E-W m	VS m	DLS deg/30m	Build deg/30m	Turn deg/30m	Tool/Comment
1245.17	5.90	47.30	1243.31	32.65	33.84	32.65	1.119	0.319	-10.521	
1254.74	6.10	46.10	1252.82	33.33	34.57	33.33	0.740	0.627	-3.762	
1262.00	6.20	47.00	1260.04	33.87	35.13	33.87	0.574	0.413	3.719	
1278.00	6.42	48.98	1275.94	35.05	36.44	35.05	0.580	0.412	3.712	Extrapolation to TD

Annotation

MD m	TVD m	Tool/Comment
1278.00	1275.94	Extrapolation to TD



Field: Eagle Plains  
 Site: K-58  
 Well: Devon Eagle Plains  
 Wellpath: Omni Job# 702  
 Survey: Directional Surveys



All Angles Refer to True North  
 True North: 0.00  
 Magnetic North: 0.00

**SITE DETAILS**  
 K-58  
 Water Depth: 0.00  
 Position Uncertainty: 0.00  
 Magnetic Deviation: 0.00  
 Convergence: 0.00

**WELLPATH DETAILS**  
 Omni Job# 702  
 Vertical Section Origin: 50m - (0.00, 0.00)  
 Vertical Section Angle: 0.00°  
 Rig: [unclear]  
 Depth Reference: [unclear]

**LEGEND**  
 — Directional Surveys

**OMNI**  
 DRILLING TECHNOLOGIES INC.

Directional Program  
 Created By: [unclear]  
 Date: 09/2005

2006/1/02

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OPERATOR : DEVON CANADA CORPORA	<b>REED Hycalog</b>	Page 1 of 2
CONTRACTOR : ENSIGN DRILLING	<i>A Grant Prideco Company</i>	
RIG : 55	LIC. NO. : YT1120	LSD: 66 SECTION: 07 TOWNSHIP: 136 RANGE: 55N
RIG TYPE :	LIC. DEPTH : 1330.1 m	PROVINCE : YUKON TERRIT COUNTRY: CANADA
API NUMBER : K58660713655N	LIC. FORMTN : FORD LAKE	WELL NAME : 66-07-136-55N/K58 DISTRICT: 5431
REED WELL NO : CAL*97	REP : VERNON SWAREN	LATITUDE : 66° 7' 34.8" N LONGITUDE : 136° 55' 27.6" W
OPERATOR REP: ROLAND BENOIT & JOHN WILLIAMS	PHONE NO :	SURVEY: ABSTRACT : BLOCK:
TOOLPUSHER :		FIELD : DEVON EAGLE PLAINS K-58 WELL PROFILE: Vertical
DIRECTNL CO. : OMNI		<b>** CONFIDENTIAL TILL 28-MAR-07 **</b>
WELL REMARKS:		

PUMP1 MAKE/MODEL: /	MUD COMPANY :	SPUD : 22-FEB-05	PIPE: SIZE/TYPE :
PUMP2 MAKE/MODEL: GARDNER-DENVER/PZ7	MUD SYSTEM : N/A	UNDERSURFACE : 06-MAR-05	HW PIPE: SIZE/TYPE :
PUMP3 MAKE/MODEL: /	CONTRACT TYPE : Daywork	INTERMEDIATE :	COLLAR 1:
DRAWWORKS :	CONTRACT DEPTH: m	TOTAL DEPTH : 28-MAR-05	COLLAR 2:
TOP DRIVE :			LENGTH :

BIT NO	BIT SIZE mm	BIT MFG	BIT TYPE	SERIAL NO	JET SIZE mm or TFA mm	DEPTH OUT m	DRILLED m	HRS RUN	ACC HRS	ROP m/h	WOB kdaN	TOTAL RPM	MTR RPM	VERT DEV	PUMP kPa	FLOW m3/min	MUD					DULL CODES					RUNNANT DATE			
																	T	WT	%S	VIS	WL	I	O	WD	LOC	B		G	OD	RP
1	311.2	HC	X1CXP	J17674	14.3 14.3 14.3	100	100	14.00	14	7.1	1 / 6	60 / 120		0.3	4500	2.01	W	1180					2	2	NO	A	E	In	NQFM	22-FEB-05
LOST CIRC @ 95M - RUN 2 CEMENT PLUGS - MUD TEMP = 18°C																														
2	311.2	HC	X1CXP	J17674	14.3 14.3 14.3	115	15	4.25	18	3.5	1 / 10	80 / 120		0.3	8000	2.8	W	1110					2	2	NO	A	E	In	NQBHA	25-FEB-05
DRILL OUT CEMENT - LOST CIRC - RUN PLUG #3																														
3	311.2	HC	X1CXP	J17674	14.3 14.3 14.3	143	28	1.75	20	16.0	1 / 1	80 / 120		1.3	5000	2.21	W	1110					2	2	NO	A	E	In	NQBHA	26-FEB-05
DRILL OUT CEMENT - DRILL BLIND - RUN PLUG #4																														
4	311.2	HC	X1CXP	J17674	14.3 14.3 14.3	206	63	10.75	31	5.9	6 / 10	90 / 120		3.0	5700	2.06	W	1160				4	4	FC	A	E	In	NQPR	28-FEB-05	
5	311.2	HC	MXR18P	RR00539	17.5 17.5 17.5	291	85	22.25	53	3.8	1 / 6	120 / 140		2.0	7400	2.09	W	1160				3	3	NO	A	E	In	NQPR	01-MAR-05	
MUD TEMP = 24°C																														
6	311.2	SB	F2XP	YD5187	14.3 14.3 14.3	362	71	15.50	69	4.6	4 / 6	140 / 145		2.8	8000	2.09	W	1180				2	2	WT	G	E	In	NOTD	02-MAR-05	
MUD TEMP = 32°C																														
7	222.3	RH	TD51XMP	L54002-	12.7 12.7 12.7	457	95	28.50	97	3.3	3 / 4	130 / 140		4.3	6000	1.41	W	1220	7	25	8	2	3	FC	A	E	1	T	PR	06-MAR-05
BHA: INSERT BIT, BIT SUB, DC X 5, JARS, DC X 5, HWDP X 10 Run Remarks: JACK RIG TO LEVEL & DRILL OUT - HART RIVER 385M - MUD TEMP = 32°C																														
8	222.3	RH	TD44MP	HY2303	12.7 12.7 12.7	627	70	39.75	137	1.8	6 / 7	110 / 112		4.0	6000	1.41	W	1200	8	27	8	4	6	FC	A	E	In	BTDSF	08-MAR-05	
BHA: INSERT BIT, BIT SUB, DC X 5, JARS, DC X 5, HWDP X 10 Run Remarks: TWIST OFF DC - DETERIORATION AROUND CELLAR - MUD TEMP = 22°C																														
9	222.3	RH	TD51XMP	L54002-	26.4 25.4 25.4	527	0	.00	137							W						2	3	FC	A	E	1	T	BHA	11-MAR-05
CIRC - WAIT ON DC INSPECTOR																														
10	222.3	HC	HRS38C	6021470	14.3 14.3 12.7	734	207	59.25	196	3.5	14 / 16	25 / 35	MM	3.4	10000	1.3	W	1235	8	29	8.5	5	6	WT	G	E	In	BT	PR	14-MAR-05
BHA: INSERT BIT, LO SPEED MOTOR, FLOAT SUB, MONEL, PULSER SUB, MONEL, XO PIN/BOX SHOCK SUB, DC X 4, JARS, DC X 9, HWDP X 9 Run Remarks: DIRECTIONAL DRILL - MOTOR SET AT 1.5° - MUD TEMP = 28°C																														
11	222.3	RH	TD81AP	JL4478	14.3 14.3 14.3	889	155	50.00	246	3.1	16 / 17	25 / 28	MM	1.2	10600	1.29	W	1350	13	36	7	7	8	BT	A	F	In	T	PR	17-MAR-05
BHA: INSERT BIT, LO SPEED MOTOR, FLOAT SUB, MONEL, PULSER SUB, MONEL, XO PIN/BOX, SHOCK SUB, DC X 4, JARS, DC X 9, HWDP X 9 Run Remarks: DIRECTIONAL DRILL - MOTOR SET AT 1.5° - S3A 882M - MUD TEMP = 30°C																														
12	222.3	HC	HRS44G	6028920	14.3 14.3 15.9	1051	162	50.75	297	3.2	16 / 19	25 / 40	MM	2.0	10000	1.29	W	1310	12	35	6.5	5	7	WT	G	E	2	FC	PR	21-MAR-05
BHA: INSERT BIT, LO SPEED MOTOR, FLOAT SUB, MONEL, PULSER SUB, MONEL, XO PIN/BOX, SHOCK SUB, DC X 4, JARS, DC X 9, HWDP X 9 Run Remarks: DIRECTIONAL DRILL - CHANCE 998M - MUD TEMP = 28°C																														



2006/1/02

26

OPERATOR : DEVON CANADA CORPORA  
 CONTRACTOR : ENSIGN DRILLING  
 RIG : 55  
 RIG TYPE :  
 API NUMBER : K58660713655N  
 REED WELL NO : CAL\*97  
 OPERATOR REP : ROLAND BENOIT & JOHN WILLIAMS  
 TOOLPUSHER :  
 DIRECTNL CO. : OMNI  
 WELL REMARKS :

**REED Hycalog**  
 A Grant Prideco Company

LIC. NO. : YT1120  
 LIC. DEPTH : 1330.1 m  
 LIC. FORMTN : FORD LAKE  
 REP : VERNON SWAREN  
 PHONE NO :

LSD : 66 SECTION : 07 TOWNSHIP : 136 RANGE : 55N  
 PROVINCE : YUKON TERRITORY COUNTRY : CANADA  
 WELL NAME : 66-07-136-55N/K58 DISTRICT : 5431  
 LATITUDE : 66° 7' 34.8" N LONGITUDE : 136° 55' 27.6" W  
 SURVEY : ABSTRACT : BLOCK :  
 FIELD : DEVON EAGLE PLAINS K-58 WELL PROFILE : Vertical

Page 2 of 2

**\*\* CONFIDENTIAL TILL 28-MAR-07 \*\***

PUMP1 MAKE/MODEL :  
 PUMP2 MAKE/MODEL : GARDNER-DENVER/PZ7  
 PUMP3 MAKE/MODEL :  
 DRAWWORKS : TOP DRIVE :

MUD COMPANY :  
 MUD SYSTEM : N/A  
 CONTRACT TYPE : Daywork  
 CONTRACT DEPTH : m

SPUD : 22-FEB-05  
 UNDERSURFACE : 06-MAR-05  
 INTERMEDIATE :  
 TOTAL DEPTH : 28-MAR-05

PIPE SIZE/TYPE :  
 HW PIPE SIZE/TYPE : LENGTH :  
 COLLAR 1 :  
 COLLAR 2 :

BIT NO	BIT SIZE mm	BIT MFG	BIT TYPE	SERIAL NO	JET SIZE mm or TFA mm2	DEPTH OUT m	DRILLED m	HRS RUN	ACC HRS	ROP m/h	WOB kdaN	TOTAL RPM	MTR RPM	VERT DEV	PUMP kPa	FLOW m3/min	MUD					DULL CODES					RUNNMT DATE			
																	T	WT	%S	VIS	WL	I	O	MD	LOC	B		G	OD	RP
13	222.3	RH	TD61AP	JL4474	14.3 14.3 15.9	1102	51	20.25	317	2.5	16 / 19	25 / 30	MM	5.1	10000	1.29	W	1320	11	34	8	3	4	T	G	E	1	FC	HP	24-MAR-05
BHA: INSERT BIT, LO SPEED MOTOR, FLOAT SUB, MONEL, PULSER SUB, MONEL, XO PIN/BOX, SHOCK SUB, DC X 4, JARS, DC X 9, HWDP X 9 Run Remarks: DIRECTIONAL DRILL - CANOE 1083M - MUD TEMP = 23°C																														
14	222.3	RH	TD53AMP	D74378	14.3 14.3 15.9	1234	132	43.50	361	3.0	15 / 17	25 / 30	MM	6.3	10000	1.29	W	1300	11	33	8	5	7	T	G	E	3	FC	PR	25-MAR-05
BHA: INSERT BIT, LO SPEED MOTOR, FLOAT SUB, MONEL, PULSER SUB, MONEL, XO PIN/BOX, SHOCK SUB, DC X 4, JARS, DC X 9, HWDP X 9 Run Remarks: DIRECTIONAL DRILL - MUD TEMP = 28°C																														
15	222.3	RH	TD53AP	M16005	14.3 14.3 15.9	1278	44	12.25	373	3.6	16 / 18	25 / 35	MM	6.4	10000	1.29	W	1315	12	49	7.5	2	3	T	G	E	In	FC	TD	27-MAR-05
BHA: INSERT BIT, LO SPEED MOTOR, FLOAT SUB, MONEL, PULSER SUB, MONEL, XO PIN/BOX, SHOCK SUB, DC X 4, JARS, DC X 9, HWDP X 9 Run Remarks: DIRECTIONAL DRILL - MUD TEMP = 28°C																														







SPUD RIG RELEASE JOB NO. AFE  
 11120 WELL NAME AND NO. 136 5270083  
 Eagle Plains K-58

OPERATOR: Devon Canada Ltd.  
 SURFACE LOCATION: 60° 07' 34.8"

CONTRACTOR: Ensign Drilling Inc.  
 UNIQUE ID: 300/K-58 66°07' 136°55"  
 SIGNATURE OF CONTRACTORS REPRESENTATIVE: Dave Pietrzykowski

SIGNATURE OF OPERATORS REPRESENTATIVE: Earl King

DAILY CHECKS  
 (1) Daily Walk Around Inspection  
 (2) Drilled Inspection Weekly (during checks)  
 (3) H2S Safety Protocol (if required)  
 (4) Well Licenses & Stock Diagrams Permitted  
 (5) Flare Line Status  
 (6) BOP Dets Performed  
 (7) Visually Inspect BOP's Flarelines & Dogeater Lines

OPR. R.M. DATE: 04-Apr-2005  
 LAST CASING TUBING OR LINER: FUEL @ 8:00  
 RIG NO. 55  
 RIG 147 BOILER 45

D.D. (mm)	MON. ID. (mm)	W.G. (mm)	MAKE	GRADE	NO. OF JOINTS	TOTAL W.L. LENGTH	RIG TO CASING HEAD (m)	SET AT (m)
244.5	226.5	53.58	NUSCO	J-55	28	355.83	4.67	360.50

TEMPERATURE	COOP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MON. ID. (mm)	TOOL JT. O.D. (mm)	THREAD TYPE	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTR. (mm)
114.00	29.77	E-75	63.50	158.00	4-1/2 XH	145	PZ-8	Gardner Denver	203	
114.00	62.45	H.W.	73.03	158.00	4-1/2 XH	9	PZ-7	Gardner Denver	178	
159.00	130.30	D.C.	64.00	159.00	4-1/2 XH	20				



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Based on the CAODC ETS file standard

CODE	NO.	DESCRIPTION	DATE
01	01	01	01

SHALE SHAKER(S)	RENTALS/SERVICES	MORN. DAY	EVE
NO. 1 TYPE NEW Loader		8.00	8.00
SCREENS CHANGED	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
TOP 140u	crew truck unit # R5053	8.00	8.00
MIDDLE 140u			
BOTTOM 110u			

WELL TYPE: vertical  
 RE-ENTRY:  YES  NO  
 RIG TO GROUND ELEV.: 5.00

WELL NAME & No.: Eagle Plains K-58  
 DATE: 04-Apr-2005

OPERATOR: Devon Canada Ltd.  
 CONTRACTOR: Ensign Drilling Inc.

RIG MANAGER: Dave Pietrzykowski  
 RIG NO.: 55

PROVINCE: Yukon  
 CAMP:  YES  NO  
 RIG SAFETY DAYS: 297.00

BIT RECORD

BIT NO.	SIZE	IADC CODE	MFG.	TYPE	SERIAL NO.	JETS	DEPTH OUT (m)	DEPTH IN (m)	TOTAL METERS DRILLED (m)	TOTAL HOURS RUN

MUD RECORD

MUD TYPE	W.L. (cm3)	pH	PRODUCT	AMOUNT x UNIT	HOURS RUN

SOLIDS CONTROL

DEPTH (m)	DEVIATION (o)	DIRECTION	HOURS RUN

METERS DRILLED

FROM	TO	W.L. (cm3)	PH	TIME LOG	OPERATIONS IN SEQUENCE AND REMARKS
0:00	8:00			1	Tear Down Rig, clean mud tanks, de-ice matting & rig,

DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

TIME LOG	OPERATIONS IN SEQUENCE AND REMARKS		
0:00	8:00	1	Tear Down Rig, clean mud tanks, de-ice matting & rig,

MORNING TOUR 0:00 TO 8:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES
Toolpush	621-982-826	RYAN HILDENBRAND	3	0.50 RH
Driller	637-869-959	DWAYNE AMESON	8.00	DA
Derrickman	725-567-994	MASON PAAS	8.00	MP
Motorman	642-124-499	DAVE MARTEL	8.00	DM
Floorman	122-457-385	CODY GOOD	8.00	CG
Floorman	659-144-414	BRAD STENSrud	8.00	BS
Leaseman	731-681-029	STEVEN EGELY	8.00	SE

BIT RECORD

TYPE	W.L. (cm3)	PH	PRODUCT	AMOUNT x UNIT	HOURS RUN

SOLIDS CONTROL

DEPTH (m)	DEVIATION (o)	DIRECTION	HOURS RUN

METERS DRILLED

FROM	TO	W.L. (cm3)	PH	TIME LOG	OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:15	0.25	21		Safety Meeting with mullen
12:15	20:00	7.75	22		load out rig spot at rack site in eagle plains

DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

TIME LOG	OPERATIONS IN SEQUENCE AND REMARKS			
12:00	12:15	0.25	21	Safety Meeting with mullen
12:15	20:00	7.75	22	load out rig spot at rack site in eagle plains

DAY TOUR 8:00 TO 20:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES
Driller	625-501-754	DAVE PIETRZYKOWSKI	1.00	DP
Derrickman	725-567-994	STEWART SURRIDGE	12.00	SS
Motorman	647-924-802	GREG HATFIELD	12.00	GH
Floorman	728-194-671	JEFF HOLMES	12.00	JH
Floorman	635-735-228	DWAIN ROADHOUSE	12.00	DR
Leaseman	512-243-874	BRAD MACDONALD	12.00	BM

BIT RECORD

TYPE	W.L. (cm3)	PH	PRODUCT	AMOUNT x UNIT	HOURS RUN

SOLIDS CONTROL

DEPTH (m)	DEVIATION (o)	DIRECTION	HOURS RUN

METERS DRILLED

FROM	TO	W.L. (cm3)	PH	TIME LOG	OPERATIONS IN SEQUENCE AND REMARKS
20:00	24:00	4.00	23		wait on daylight, prep matting and derrick for move

DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

TIME LOG	OPERATIONS IN SEQUENCE AND REMARKS			
20:00	24:00	4.00	23	wait on daylight, prep matting and derrick for move

EVENING TOUR 20:00 TO 24:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES
Toolpush	621-982-826	RYAN HILDENBRAND	0.50	RH
Driller	637-869-959	DWAYNE AMESON	4.00	DA
Derrickman	725-567-994	MASON PAAS	4.00	MP
Motorman	642-124-499	DAVE MARTEL	4.00	DM
Floorman	122-457-385	CODY GOOD	4.00	CG
Floorman	659-144-414	BRAD STENSrud	4.00	BS
Leaseman	731-681-029	STEVEN EGELY	4.00	SE







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Based on the CAODC ETS file standard

SPUD	RIG RELEASE	JOB NO. 136	AFE 5270083	DAILY CHECKS
LICENCE NO. 11120	WELL NAME AND NO. Eagle Plains K-58			(1) Daily Work Approval Inspection (2) Detailed Inspection (Weekly) (Formy checklist) (3) H2S Signs (Postcard if required) (4) Well Logs & Sack Diagram Posted (5) Flare Line Status (6) BOP Date Performance (7) Visually Inspect BOP's Function & Degreaser Lines
OPERATOR Devon Canada Ltd.	CONTRACTOR Ensign Drilling Inc.			
SURFACE LOCATION 60° 07' 34.8"	UNIQUE ID: 300/K-58 66°07' 136*55'			
SIGNATURE OF OPERATORS REPRESENTATIVE Earl King	SIGNATURE OF CONTRACTORS REPRESENTATIVE Dave Pietrzykowski			
				(8) C.A.O.D.C. Rig Safety Inspection Checklist (see attachment) (9) Most Inspection Before Raising or Lowering (10) Crown Block Checked (11) Motor Kib. Checked

TIME - HRS	CODE	SHALE SHAKER(S)																								RENTALS/SERVICES						
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	NO	TYPE	NEW	Loader	MORN	DAY	EVE
	OPER	8.00																								SCREENS CHANGED	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	crew truck unit # R5053	8.00	8.00	8.00	
	MORN	114.00																								TOP	140u	TOP	140u			
	DAY	114.00																								MIDDLE		MIDDLE				
	EVE	159.00																								BOTTOM	110u	BOTTOM	140 N			
	TOTAL	7.50																														

WELL TYPE vertical	RE-ENTRY <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	KB TO GROUND ELEV. 5.00
WELL NAME & No. Eagle Plains K-58	DATE 02-Apr-2005	
OPERATOR Devon Canada Ltd.	CONTRACTOR Ensign Drilling Inc.	
RIG MANAGER Dave Pietrzykowski	RIG NO. 55	
PROVINCE Yukon	CAMP <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	RIG SAFETY DAYS: 295.00

BIT RECORD				MUD RECORD			
NO.	BIT	O.D. (mm)	LENGTH	BIT NO.	SIZE	MUD TYPE	WATER BASED
67	D.P.	STANDS	1261.77	72	67	1330	1325
1	D.P.	SINGLES	9.29	72	67	72	67
KELLYDOWN 6.94				HOLE CONDITION			
TOTAL 1278.00				HOLE DRAG			
WT. OF DC				TORQUE AT BOTTOM			
WT. OF STRING				FILL ON BOTTOM (m)			

METERS DRILLED				TIME LOG				DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS			
FROM	TO	NO. OF COILS	ROTARY R.P.M.	FROM	TO	NO.	TYPE	FROM	TO	NO.	REMARKS
1278.00				0:00	2:00	6	Trips r.i.h. open end, pick up 17 D.P.	0:00	2:00	6	Trips r.i.h. open end, pick up 17 D.P.
				2:00	2:15	0.25	7	2:00	2:15	0.25	7
				2:15	8:00	5.75	5	2:15	8:00	5.75	5

MORNING TOUR 0:00 TO 8:00				INJURIES			
CREW	SOC. INS. NO.	NAME	HRS	YES	NO	YES	NO
Toolpush		RYAN HILDENBRAND	0.50	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Driller		Dwayne Arneson	8.00	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Derrickman		Mason Paas	8.00	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Motorman		Dave Martel	8.00	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Floorman		Cody Good	8.00	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Floorman		Brad Stensrud	8.00	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Leaseman		Steven Egely	8.00	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

BIT RECORD				MUD RECORD			
NO.	BIT	O.D. (mm)	LENGTH	BIT NO.	SIZE	MUD TYPE	WATER BASED
67	D.P.	STANDS	1261.77	52	52	1320	1320
1	D.P.	SINGLES	9.29	52	52	52	52
KELLYDOWN 6.94				HOLE CONDITION			
TOTAL 1278.00				HOLE DRAG			
WT. OF DC				TORQUE AT BOTTOM			
WT. OF STRING				FILL ON BOTTOM (m)			

METERS DRILLED				TIME LOG				DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS			
FROM	TO	NO. OF COILS	ROTARY R.P.M.	FROM	TO	NO.	TYPE	FROM	TO	NO.	REMARKS
1278.00				8:00	8:15	0.25	21	8:00	8:15	0.25	21
				8:15	8:30	0.25	7	8:15	8:30	0.25	7
				8:30	10:15	1.75	5	8:30	10:15	1.75	5
				10:15	12:00	1.75	17	10:15	12:00	1.75	17

DAY TOUR 8:00 TO 20:00				INJURIES			
CREW	SOC. INS. NO.	NAME	HRS	YES	NO	YES	NO
Rig Manager		Dave Pietrzykowski	1.00	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Driller		Joe Tedford	12.00	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Derrickman		Stewart Surridge	12.00	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Motorman		Greg Hatfield	12.00	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Floorman		Jeff Holmes	12.00	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Floorman		Dwain Roadhouse	12.00	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Leaseman		Brad Macdonald	12.00	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

BIT RECORD				MUD RECORD			
NO.	BIT	O.D. (mm)	LENGTH	BIT NO.	SIZE	MUD TYPE	WATER BASED
9	D.P.	STANDS	170.40				
1	D.P.	SINGLES					
KELLYDOWN				HOLE CONDITION			
TOTAL 170.40				HOLE DRAG			
WT. OF DC				TORQUE AT BOTTOM			
WT. OF STRING				FILL ON BOTTOM (m)			

METERS DRILLED				TIME LOG				DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS			
FROM	TO	NO. OF COILS	ROTARY R.P.M.	FROM	TO	NO.	TYPE	FROM	TO	NO.	REMARKS
1278.00				20:00	20:30	0.50	17	20:00	20:30	0.50	17
				20:30	21:00	0.50	17	20:30	21:00	0.50	17
				21:00	21:30	0.50	17	21:00	21:30	0.50	17

EVENING TOUR 20:00 TO 24:00				INJURIES			
CREW	SOC. INS. NO.	NAME	HRS	YES	NO	YES	NO
Toolpush		RYAN HILDENBRAND	0.50	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Driller		Dwayne Arneson	4.00	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Derrickman		Mason Paas	4.00	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Motorman		Dave Martel	4.00	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Floorman		Cody Good	4.00	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Floorman		Brad Stensrud	4.00	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Leaseman		Steven Egely	4.00	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>







SPUD RIG RELEASE JOB NO. AFE  
 11120 WELL NAME AND NO. S270083  
 Eagle Plains K-58

OPERATOR: Devon Canada Ltd. CONTRACTOR: Ensign Drilling Inc.  
 SURFACE LOCATION: 60° 07' 34.8" UNIQUE ID: 300/K-58 66° 07' 136° 55"  
 SIGNATURE OF OPERATORS REPRESENTATIVE: Earl King SIGNATURE OF CONTRACTORS REPRESENTATIVE: Dave Pietrzykowski

DAILY CHECKS:  
 (1) Daily Vibe Around Inspection  
 (2) Detailed Inspection Weekly (using checklist)  
 (3) H2S Signs Posted (if required)  
 (4) H2S License & Shock Diagram Posted  
 (5) Flow Line Checked  
 (6) BOP Di. Ins. Performed  
 (7) Visually Inspect BOP & Flarelines & Gaslift Lines  
 (8) C.A.O.D.C. Rig Safety Inspection Checklist (every month)  
 (9) Mast Inspection Before Raising or Lowering  
 (10) Crown Saver Checked  
 (11) Lower Leg Checked

DATE: 31-Mar-2005  
 RIG NO: 55  
 FUEL @ 8:00: 210 BOILER 185

LAST CASING TUBING OR LINER: 244.5 226.5 53.58 NUSCO J-55 28 355.83 4.67 360.50

WEATHER: TEMPERATURE 114.00, CURRENT CONDITION 114.00, WIND DIRECTION 159.00, ROAD 130.30

SHALE SHAKERS: 24.00 BOTTOM 110u, 140 N



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Based on the CAODC ETS file standard

TIME-HRS	CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
MORN	OPR						0.25																			
DAY						2.25	3.75	0.25																		
EVE							0.75	0.25																		
TOTAL						2.25	4.75	0.25																		

NO.	TYPE	NEW	MONTH	DAY	EVE
1	Loader		8.00	8.00	8.00
2	crew truck unit # R5053		8.00	8.00	8.00
3	TOP 140u				
4	MIDDLE				
5	BOTTOM 110u				

WELL TYPE: vertical RE-ENTRY:  YES  NO KB TO GROUND ELEV.: 5.00  
 WELL NAME & No: Eagle Plains K-58 DATE: 31-Mar-2005  
 OPERATOR: Devon Canada Ltd. CONTRACTOR: Ensign Drilling Inc.  
 RIG MANAGER: Dave Pietrzykowski RIG NO.: 55  
 PROVINCE: Yukon CAMP:  YES  NO RIG SAFETY DAYS: 293.00

NO.	BIT	OD (mm)	LENGTH (m)	BIT NO.	SIZE	MUD TYPE	TIME	
8	dc		71.81	IADC CODE 5 3 7	222			
9	hwdp		81.71	MFG. Reed				
1	stabling valve		0.54	TYPE TD53A				
1	test tool		23.70	SERIAL NO. M16005				
b.h.a. 153.52				DEPTH OUT (m)	1278.00	MUD MATERIAL ADDED		
				DEPTH IN (m)	1234.00	SOLIDS CONTROL		
				TOTAL METERS DRILLED (m)	44.00	PRODUCT AMOUNT x UNIT		
				TOTAL HOURS RUN	12.25	HOURS RUN		
54	D.P.	STANDS	1001.88	CUTTING STRUCTURE				REASON PAUSED
1	D.P.	SINGLES	9.57	HOLE CONDITION				3.59
TOTAL				1189.21	HOLE DRAG			
WT. OF DC				10.00	TORQUE AT BOTTOM			
WT. OF STRING				31.00	FILL ON BOTTOM (m)			

FROM	TO	TIME	REMARKS
1278.00	1278.00	0:00	Drill Stem Test # 1041m.- 1051
		3:15	3:45 0.50 16 Deflate packers & pull free
		3:45	4:00 0.25 6 Pull & rack back 2 stds & 1 sgl. DP
		4:00	4:15 0.25 21 Safety Meeting w/ester JSA # G2-DST's
		4:15	8:00 3.75 16 Head up, Inflate packers & run DST #3 997m-1007m
REDUCED PUMP SPEED			
DEVIATION SURVEY			
DEPTH (m) DEVIATION (c) DIRECTION			
NOTES d.w.a. inspect brake pin & linkage, fct. crown saver & Emergency Shut Down control.			
DRILLER SIGNATURE: Dwayne Arneson			
OPERATOR FUEL: 38.00 MAX EXP HOOKLOAD: S.C.B.A. SAFETY TOPIC: M.A.C.P. DRIVER A: CREW SAFETY DAYS: DRIVER B:			

CREW	SOC. INS. NO.	NAME	HRS	INJURIES
Toolpush		RYAN HILDENBRAND	0.50	RH <input type="checkbox"/>
Driller		Dwayne Arneson	8.00	DA <input type="checkbox"/>
Derrickman		Mason Paas	8.00	MP <input type="checkbox"/>
Motorman		Dave Martel	8.00	DM <input type="checkbox"/>
Floorman		Cody Good	8.00	CG <input type="checkbox"/>
Floorman		Brad Stensrud	8.00	BS <input type="checkbox"/>
Leaseman		Steven Egely	8.00	SE <input type="checkbox"/>

NO.	BIT	OD (mm)	LENGTH (m)	BIT NO.	SIZE	MUD TYPE	TIME	
8	dc		71.81	IADC CODE 5 3 7	222			
9	hwdp		81.71	MFG. Reed				
1	stabling valve		0.54	TYPE TD53A				
1	test tool		23.70	SERIAL NO. M16005				
b.h.a. 153.52				DEPTH OUT (m)	1278.00	MUD MATERIAL ADDED		
				DEPTH IN (m)	1234.00	SOLIDS CONTROL		
				TOTAL METERS DRILLED (m)	44.00	PRODUCT AMOUNT x UNIT		
				TOTAL HOURS RUN	12.25	HOURS RUN		
54	D.P.	STANDS	1001.88	CUTTING STRUCTURE				REASON PAUSED
1	D.P.	SINGLES	9.57	HOLE CONDITION				3.59
TOTAL				1189.21	HOLE DRAG			
WT. OF DC				10.00	TORQUE AT BOTTOM			
WT. OF STRING				31.00	FILL ON BOTTOM (m)			

FROM	TO	TIME	REMARKS
1278.00	1278.00	8:00	Safety Meeting reviewed training session # 52 & safety alert
		8:15	9:00 0.75 16 deflate packers & pull 1 single
		9:00	9:30 0.50 16 head-up & safety meeting
		9:30	12:00 2.50 16 Drill Stem Test # 4 985m-995m
		12:00	12:15 0.25 16 deflate packers & have safety meeting
		12:15	13:30 1.25 6 p.o.o.h. to 866m
		13:30	15:15 1.75 5 reverse circulate dst recovery 815m of fluid 5.5m3
		15:15	15:45 0.50 5 circulate bottoms up
		15:45	16:00 0.25 7 Rig Service fct annular 7 sec c/o
		16:00	18:30 2.50 6 p.o.o.h. f/866m- flow checks @ 866m,452m,208m,@ 40m test tool
		18:30	20:00 1.50 16 dump recorders & service test tool
NOTES d.w.a. check break pins & linkages, fct. crown saver, blow down boiler 2.			
DRILLER SIGNATURE: Joe Tedford			
OPERATOR FUEL: 49.00 MAX EXP HOOKLOAD: pulling test tools SAFETY TOPIC: M.A.C.P. DRIVER A: CREW SAFETY DAYS: DRIVER B:			

CREW	SOC. INS. NO.	NAME	HRS	INJURIES
Rig Manager		Dave Pietrzykowski	1.00	DP <input type="checkbox"/>
Driller		Joe Tedford	12.00	JT <input type="checkbox"/>
Derrickman		Stewart Surridge	12.00	SS <input type="checkbox"/>
Motorman		Greg Hatfield	12.00	GH <input type="checkbox"/>
Floorman		Jeff Holmes	12.00	JH <input type="checkbox"/>
Floorman		Dwain Roadhouse	12.00	DR <input type="checkbox"/>
Leaseman		Brad Macdonald	12.00	BM <input type="checkbox"/>

NO.	BIT	OD (mm)	LENGTH (m)	BIT NO.	SIZE	MUD TYPE	TIME	
1	bit sub		0.92	222				
6	dc		53.71	IADC CODE 5 3 7				
9	hwdp		81.71	MFG. Reed				
1	stabling valve		0.54	TYPE TD53A				
1	test tool		23.70	SERIAL NO. M16005				
b.h.a. 160.58				DEPTH OUT (m)	1278.00	MUD MATERIAL ADDED		
				DEPTH IN (m)	1234.00	SOLIDS CONTROL		
				TOTAL METERS DRILLED (m)	44.00	PRODUCT AMOUNT x UNIT		
				TOTAL HOURS RUN	12.25	HOURS RUN		
14	D.P.	STANDS	265.29	CUTTING STRUCTURE				REASON PAUSED
1	D.P.	SINGLES	1.13	HOLE CONDITION				3.59
TOTAL				427.00	HOLE DRAG			
WT. OF DC				10.00	TORQUE AT BOTTOM			
WT. OF STRING				31.00	FILL ON BOTTOM (m)			

FROM	TO	TIME	REMARKS
1278.00	1278.00	20:00	Safety Meeting w/ester (service test tool)
		20:15	20:30 0.25 7 Rig Service fct. annular 8sec.
		20:30	23:15 2.75 16 Service test tool, reload,
		23:15	0:00 0.75 6 Run in hole with DST #5
REDUCED PUMP SPEED			
DEVIATION SURVEY			
DEPTH (m) DEVIATION (c) DIRECTION			
NOTES d.w.a. inspect brake pin & linkage, fct. crown saver, blow boiler 2.			
DRILLER SIGNATURE: Dwayne Arneson			
OPERATOR FUEL: 25.00 MAX EXP HOOKLOAD: handling test tool SAFETY TOPIC: M.A.C.P. DRIVER A: CREW SAFETY DAYS: DRIVER B:			

CREW	SOC. INS. NO.	NAME	HRS	INJURIES
Toolpush		RYAN HILDENBRAND	0.50	RH <input type="checkbox"/>
Driller		Dwayne Arneson	4.00	DA <input type="checkbox"/>
Derrickman		Mason Paas	4.00	MP <input type="checkbox"/>
Motorman		Dave Martel	4.00	DM <input type="checkbox"/>
Floorman		Cody Good	4.00	CG <input type="checkbox"/>
Floorman		Brad Stensrud	4.00	BS <input type="checkbox"/>
Leaseman		Steven Egely	4.00	SE <input type="checkbox"/>



Chimo Equipment  
A Varco Company

Based on the CAODC ETS file standard

SPUD RIG RELEASE JOB NO. AFE 5270083

LICENSE NO. 11120 WELL NAME AND NO. Eagle Plains K-58

OPERATOR Devon Canada Ltd. CONTRACTOR Ensign Drilling Inc.

SURFACE LOCATION 60° 07' 34.8" UNIQUE ID: 300K-58 66° 07' 136' 55"

SIGNATURE OF OPERATORS REPRESENTATIVE Earl King SIGNATURE OF CONTRACTORS REPRESENTATIVE Dave Pietrzykowski

DAILY CHECKS

DATE 30-Mar-2005

RIG NO. 55 LAST CASING TUBING OR LINER

RIG 157 BOILER 144

WEATHER

TEMPERATURE	114.00	29.77	E-75	63.50	158.00	4-1/2 XH	145	PZ-8	Gardner Denver	203
CURRENT CONDITION	114.00	62.45	H.W.	73.03	158.00	4-1/2 XH	9	PZ-7	Gardner Denver	178
WIND DIRECTION	159.00	130.30	D.C.	64.00	159.00	4-1/2 XH	20			

TIME - HRS	OPER	START	STOP	REMARKS
MORN		5.75	2.00	
DAY		5.75	0.25	
EVE		0.75		
TOTAL		5.75	8.50	0.25

NO.	TYPE	NEW	RENTALS/SERVICES	MO	DAY	EVE
1	Loader		crew truck unit # R5053	8.00	8.00	8.00
2	TOP 140u			8.00	8.00	8.00
3	MIDDLE 140u			4.00		
4	BOTTOM 110u			24.00		

WELL TYPE vertical RE-ENTRY  YES  NO KB TO GROUND ELEV. 5.00

WELL NAME & No. Eagle Plains K-58 DATE 30-Mar-2005

OPERATOR Devon Canada Ltd. CONTRACTOR Ensign Drilling Inc.

RIG MANAGER Dave Pietrzykowski RIG NO. 55

PROVINCE Yukon CAMP  YES  NO RIG SAFETY DAYS: 292.00

NO.	BIT	SIZE	LENGTH	BIT NO.	SIZE	TIME
1	bit	0.25		12rr	222	02:00
6	bit sub	0.92				04:00
6	dc	55.36	IADC CODE 5 3 7			1315
1	jar	4.65	MFG. Reed			87
7	dc	62.51	TYPE TD53A			7.50
9	hwdp	81.71	SERIAL NO. M16005			11.0

NO.	FROM	TO	ROTARY R.P.M.	WEIGHT ON BIT (LBS)	TIME
1	1278.00	1278.00			0:00
2	1278.00	1278.00			0:15
3	1278.00	1278.00			0:25
4	1278.00	1278.00			0:25
5	1278.00	1278.00			5:00
6	1278.00	1278.00			2:00

NO.	FROM	TO	ROTARY R.P.M.	WEIGHT ON BIT (LBS)	TIME
1	1278.00	1278.00			0:00
2	1278.00	1278.00			0:15
3	1278.00	1278.00			6:00
4	1278.00	1278.00			8:00
5	1278.00	1278.00			2:00
6	1278.00	1278.00			6:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES
Toolpush		RYAN HILDENBRAND	0.50	RH <input type="checkbox"/>
Driller		Dwayne Arneson	8.00	DA <input type="checkbox"/>
Derrickman		Mason Paas	8.00	MP <input type="checkbox"/>
Motorman		Curtis Tucker 3	8.00	CT <input type="checkbox"/>
Floorman		Cody Good	8.00	CG <input type="checkbox"/>
Floorman		Brad Stensrud	8.00	BS <input type="checkbox"/>
Leaseman		Steven Egely	8.00	SE <input type="checkbox"/>

NO.	BIT	SIZE	LENGTH	BIT NO.	SIZE	TIME
8	dc	71.81	IADC CODE 6 3 7			1315
9	hwdp	81.71	MFG. Reed			87
1	stabing valve	0.54	TYPE TD53A			7.50
1	test tool	23.70	SERIAL NO. M16005			11.0

NO.	FROM	TO	ROTARY R.P.M.	WEIGHT ON BIT (LBS)	TIME
1	1278.00	1278.00			8:00
2	1278.00	1278.00			8:15
3	1278.00	1278.00			9:45
4	1278.00	1278.00			10:30
5	1278.00	1278.00			10:45
6	1278.00	1278.00			11:00

NO.	FROM	TO	ROTARY R.P.M.	WEIGHT ON BIT (LBS)	TIME
1	1278.00	1278.00			8:00
2	1278.00	1278.00			8:15
3	1278.00	1278.00			9:45
4	1278.00	1278.00			10:30
5	1278.00	1278.00			10:45
6	1278.00	1278.00			11:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES
Rig Manager		Dave Pietrzykowski	1.00	DP <input type="checkbox"/>
Driller		Joe Tedford	12.00	JT <input type="checkbox"/>
Derrickman		Greg Hatfield	12.00	GH <input type="checkbox"/>
Floorman		Jeff Holmes	12.00	JH <input type="checkbox"/>
Floorman		Dwain Roadhouse	12.00	DR <input type="checkbox"/>
Leaseman		Brad Macdonald	12.00	BM <input type="checkbox"/>

NO.	BIT	SIZE	LENGTH	BIT NO.	SIZE	TIME
8	dc	71.81	IADC CODE 5 3 7			1315
9	hwdp	81.71	MFG. Reed			87
1	stabing valve	0.54	TYPE TD53A			7.50
1	test tool	23.70	SERIAL NO. M16005			11.0

NO.	FROM	TO	ROTARY R.P.M.	WEIGHT ON BIT (LBS)	TIME
1	1278.00	1278.00			20:00
2	1278.00	1278.00			20:15
3	1278.00	1278.00			22:00
4	1278.00	1278.00			22:30
5	1278.00	1278.00			23:15
6	1278.00	1278.00			23:30

NO.	FROM	TO	ROTARY R.P.M.	WEIGHT ON BIT (LBS)	TIME
1	1278.00	1278.00			20:00
2	1278.00	1278.00			20:15
3	1278.00	1278.00			22:00
4	1278.00	1278.00			22:30
5	1278.00	1278.00			23:15
6	1278.00	1278.00			23:30

CREW	SOC. INS. NO.	NAME	HRS	INJURIES
Toolpush		RYAN HILDENBRAND	0.50	RH <input type="checkbox"/>
Driller		Dwayne Arneson	4.00	DA <input type="checkbox"/>
Derrickman		Mason Paas	4.00	MP <input type="checkbox"/>
Motorman		Dave Martel	4.00	DM <input type="checkbox"/>
Floorman		Cody Good	4.00	CG <input type="checkbox"/>
Floorman		Brad Stensrud	4.00	BS <input type="checkbox"/>
Leaseman		Steven Egely	4.00	SE <input type="checkbox"/>



Chimo Equipment  
A Varco Company

Based on the CAODC ETS file standard

SPUD	RIG RELEASE	JOB NO.	AFE	5270083
LICENCE NO.	WELL NAME AND NO.	CONTRACTOR		
11210	Eagle Plains K-58	Ensign Drilling Inc.		
OPERATOR		UNIQUE ID:		
Devon Canada Ltd.		300/K-58 66°07' 136°55"		
SURFACE LOCATION		SIGNATURE OF CONTRACTOR REPRESENTATIVE		
60° 07' 34.8"		Dave Pietrzykowski		
SIGNATURE OF OPERATORS REPRESENTATIVE		DATE		
John Williams		29-Mar-2005		

DAILY CHECKS	OPR.	R.M.	DATE	29-Mar-2005	LAST CASING TUBING OR LINER	O.D. (mm)	244.5	226.5	53.58	NUSCO	GRADE	J-55	NO. OF JOINTS	28	TOTAL LHM LENGTH	355.83	KB TO CSD HEAD (m)	4.67	SET AT (m)	360.50
(1) Daily Walk Around Inspection			RIG NO.	55																
(2) Detailed Inspection/Weekly (using checkat)			FUEL @ 8:00																	
(3) VES Sign Post (if required)			RIG	197	BOILER	177														
(4) Well Leaks & Gas Detection Pointed			TEMPERATURE																	
(5) Fire Line Staged			CURRENT CONDITION	114.00	29.77	E-75	63.50	158.00	4-1/2 XH	145	PZ-8	Gardner Denver	203							
(6) BOP Drills Performed			WIND DIRECTION	114.00	62.45	H.W.	73.03	158.00	4-1/2 XH	9	PZ-7	Gardner Denver	178							
(7) Visually Inspect BOP's Flanges & Degreaser Lines			ROAD	159.00	130.30	D.C.	64.00	159.00	4-1/2 XH	20										
(8) Rig Site Health and Safety Meeting (cont'd from previous)																				
(9) C.A.O.D.C. Rig Safety Inspection Checklist (cont'd from previous)																				
(10) Well Inspection Safety Report or Logging																				
(11) Close Server Checked																				
(12) Motor Kils Checked																				

TIME - HRS	OPER	ACTUAL	PLANNED	CORRECT	CONDUCTOR	TRIPS	NO. SERVICE	REPAIR NO.	OUT OF ORDER	DRY SURVEY	WELL LOGS	WELL LOGS	WELL LOGS	WELL LOGS	WELL LOGS	WELL LOGS	WELL LOGS	WELL LOGS	WELL LOGS	WELL LOGS
MORN							0.25				7.75									
EVE							4.75	4.00	0.25											
TOTAL							7.00	5.50	0.75		7.75									

NO.	TYPE	DESCRIPTION	START	STOP	TIME	REMARKS
1	NEW	SHALE SHAKER(S)				
2	NEW	Loader	8:00	8:00	8:00	
3	NEW	crew truck unit # R5053	8:00	8:00	8:00	
4	NEW					
5	NEW					
6	NEW					
7	NEW					
8	NEW					
9	NEW					
10	NEW					
11	NEW					
12	NEW					
13	NEW					
14	NEW					
15	NEW					
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93	NEW					
94	NEW					
95	NEW					
96	NEW					
97	NEW					
98	NEW					
99	NEW					
100	NEW					

NO.	BIT	SIZE	LENGTH	BIT NO.	SIZE	MUD TYPE	WATER BASED	OL BASED	
1	bit	0.25		12	222				
6	d.c.	55.36							
1	jar	4.65							
7	d.c.	62.51							
9	hwdp	81.71							
b.h.a.204.48		DEPTH OUT (m)		1278.00		MUD MATERIAL ADDED		SOLIDS CONTROL	
		DEPTH IN (m)		1234.00		PRODUCT		AMOUNT x UNIT	
		TOTAL METERS DRILLED (m)		44.00		HOURS RUN		MATERIAL QUANTITY (kg)	
		TOTAL HOURS RUN		12.25		MATERIAL QUANTITY (kg)		MATERIAL QUANTITY (kg)	
54		D.P. STANDS		1020.10		CUTTING STRUCTURE		MATERIAL QUANTITY (kg)	
1		D.P. SINGLES		9.24		MATERIAL QUANTITY (kg)		MATERIAL QUANTITY (kg)	
KELLYDOWN		TOTAL		1233.82		HOLE DRAG		MATERIAL QUANTITY (kg)	
WT. OF DC		TORQUE AT BOTTOM				HOURS RUN		MATERIAL QUANTITY (kg)	
WT. OF STRING		FILL ON BOTTOM (m)				MATERIAL QUANTITY (kg)		MATERIAL QUANTITY (kg)	

FROM	TO	DEPT. (m)	ROTARY R.P.M.	W.P. (kg)	TIME	REMARKS					
0:00	0:15	0.25	7		0:15	Rig Service fct electric choke					
0:15	3:15	3.00	11		3:15	Wireline Logs first run A.I.T-TLD HGNS-LDS					
3:15	6:45	3.50	11		6:45	Wireline Logs 2nd run DSI-HRLA-GR					
6:45	8:00	1.25	11		8:00	Wireline Logs lay down logging tools					
REDUCED PUMP SPEED											
monitor well every 20 min											
DEVIATION SURVEY											
DEPTH (m) DEVIATION (m) DIRECTION											
NOTES											
d.w.a. inspect brake pin & linkage, fct. crownover, blow boiler 2x.											
DRILLER SIGNATURE		BOILER #122		OPERATOR FUEL		MAX EXP HOOKLOAD		SAFETY TOPIC		M.A.C.P.	
Dwayne Arneson		8:00		11.0		400		power source		1900	

WELL TYPE	RE-ENTRY	KB TO GROUND ELEV.
Vertical	<input checked="" type="checkbox"/>	6.00
WELL NAME & No.	DATE	
Eagle Plains K-58	29-Mar-2005	
OPERATOR	CONTRACTOR	
Devon Canada Ltd.	Ensign Drilling Inc.	
RIG MANAGER	RIG NO.	
Dave Pietrzykowski	55	
PROVINCE	CAMP	
Yukon	<input checked="" type="checkbox"/>	
RIG SAFETY DAYS:		
291.00		

NO.	BIT	SIZE	LENGTH	BIT NO.	SIZE	MUD TYPE	WATER BASED	OL BASED	
1	bit	0.25		12rr	222				
1	bit sub	0.92							
6	dc	55.36							
1	jar	4.65							
7	dc	62.51							
9	hwdp	81.71							
b.h.a.205.40		DEPTH OUT (m)		1278.00		MUD MATERIAL ADDED		SOLIDS CONTROL	
		DEPTH IN (m)		1234.00		PRODUCT		AMOUNT x UNIT	
		TOTAL METERS DRILLED (m)		44.00		HOURS RUN		MATERIAL QUANTITY (kg)	
		TOTAL HOURS RUN		12.25		MATERIAL QUANTITY (kg)		MATERIAL QUANTITY (kg)	
56		D.P. STANDS		1056.75		CUTTING STRUCTURE		MATERIAL QUANTITY (kg)	
1		D.P. SINGLES		9.30		MATERIAL QUANTITY (kg)		MATERIAL QUANTITY (kg)	
KELLYDOWN		TOTAL		1278.03		HOLE DRAG		MATERIAL QUANTITY (kg)	
WT. OF DC		TORQUE AT BOTTOM				HOURS RUN		MATERIAL QUANTITY (kg)	
WT. OF STRING		FILL ON BOTTOM (m)		0.50		MATERIAL QUANTITY (kg)		MATERIAL QUANTITY (kg)	

FROM	TO	DEPT. (m)	ROTARY R.P.M.	W.P. (kg)	TIME	REMARKS					
8:00	8:15	0.25	21		8:15	Safety Meeting w/schlumberger					
8:15	8:30	0.25	7		8:30	Rig Service Fct remote choke, fct blind rams 3 sec c/o					
8:30	11:15	2.75	22		11:15	w.o. orders monitor well every 20 min					
11:15	14:00	2.75	6		14:00	make up bit & r.l.h. to 856m					
14:00	14:15	0.25	5		14:15	flow check & fill pipe					
14:15	15:15	1.00	6		15:15	blow kelly & r.l.h. to 1262m					
15:15	15:30	0.25	6		15:30	wash f1262m to 1278m .5m of fill					
15:30	20:00	4.50	5		20:00	Condition Mud & Circ.					
DEVIATION SURVEY											
DEPTH (m) DEVIATION (m) DIRECTION											
NOTES											
d.w.a. check break pins & linkages, fct crown over, blow down boiler 3x. Reviewed jax's G-1 & F-10.											
DRILLER SIGNATURE		BOILER #122		OPERATOR FUEL		MAX EXP HOOKLOAD		SAFETY TOPIC		M.A.C.P.	
Joe Tedford		12:00		10.5		390					





SPUD RIG RELEASE JOB NO. AFE 5270083

LICENCE NO. 11120 WELL NAME AND NO. Eagle Plains K-58

OPERATOR Devon Canada Ltd. CONTRACTOR Ensign Drilling Inc.

SURFACE LOCATION 60° 07' 34.8" UNIQUE ID: 300/K-58 66°07' 136°55"

SIGNATURE OF OPERATORS REPRESENTATIVE John Williams SIGNATURE OF CONTRACTORS REPRESENTATIVE Dave Pietrzykowski

DAILY CHECKS (1) Daily Walk Around Inspection (2) Detailed Inspection-Weekly (using checklists) (3) H2S Signle Postcard (if required) (4) Well Location & Stack Diagram Periodic (5) Flame Line Staked (6) BOP Drills Performed (7) Visually Inspect BOP & Flowlines & Degasser Lines (8) Rig Site Health and Safety Meeting (attendance records) (9) C.A.O.D.C. Rig Safety Inspection Checklist (monthly/weekly) (10) Mast Inspection Before Raising or Lowering (11) Crown Sheave Check (12) Motor Kilo Checked

DATE 27-Mar-2005 RIG NO. 55 FUEL @ 8:00 RIG 154 BOILER 145

TEMPERATURE CURRENT CONDITION WIND DIRECTION ROAD

DCOP SIZE LINEAR MASSES MIN. ID. GRADE TOOL J1 O.D. THREAD TYPE NO. OF JOINTS PUMP TYPE PUMP MANUFACTURER STROKE LTR. (min)

244.5 226.5 53.58 NUSCO J-55 28 355.83 4.67 360.50

114.00 29.77 E-75 63.50 158.00 4-1/2 XH 145 PZ-8 Gardner Denver 203

114.00 62.45 H.W. 73.03 158.00 4-1/2 XH 9 PZ-7 Gardner Denver 178

159.00 130.30 D.C. 64.00 159.00 4-1/2 XH 20



**Chimo Equipment**  
A Varco Company

Based on the CAODC ETS file standard

CODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
MORN	7.50																								
DAY	6.50																								
EVE	1.00																								
TOTAL	15.00																								

NO. 1	TYPE	NEW	MONTH	DAY	PER
8.00	SCREENS CHANGED	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	8.00	8.00	8.00
12.00	TOP 140u TOP 140u		8.00	8.00	8.00
4.00	MIDDLE MIDDLE				
24.00	BOTTOM 110u BOTTOM 140 N				

WELL TYPE vertical RE-ENTRY  YES  NO KB TO GROUND ELEV. 5.00

WELL NAME & No: Eagle Plains K-58 DATE 27-Mar-2005

OPERATOR Devon Canada Ltd. CONTRACTOR Ensign Drilling Inc.

RIG MANAGER Dave Pietrzykowski RIG NO. 55

PROVINCE Yukon CAMP  YES  NO RIG SAFETY DAYS: 289.00

NO.	BIT	ACTUAL	D.O.D.	LENGTH	BIT NO.	SIZE	IADC CODE	MFG.	TYPE	SERIAL NO.	JETS	DEPTH OUT (m)	DEPTH IN (m)	TOTAL METERS DRILLED (m)	TOTAL HOURS RUN	WT. OF DC	WT. OF STRING																																				
1	bit	0.25			11																																																
1	dir tools	30.98			222																																																
1	shock sub	3.18																																																			
4	d.c.	36.85			reed																																																
1	jars	4.65			TD53AM																																																
9	d.c.	81.02			D74378																																																
9	hwdp	81.71																																																			
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MUD TYPE	WATER BASED	OIL BASED	TIME
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	02:00 04:00 06:00
DENSITY (g/cm3)			1305 1305 1305
FUNNEL VIS. (cP)			65 68 67
W.L. (cm3)			7.00 7.00 7.00
pH			11.0 11.1 11.1
calcium			30 30 30
MUD MATERIAL ADDED			
SOLIDS CONTROL			
Gel 20			
Caustic 2			

FROM	TO	NO. OF JOINTS	ROTARY R.P.M.	W.P. ON JOINTS	TIME LOG	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1197.00	1216.00	d	30	16	0:00 7:30 7.50 2	Drill Actual // 1197m-1216m.
					7:30 7:45 0.25 7	Rig Service fct pipe ram 3sec
					7:45 8:00 0.25 10	Deviation Survey ( accm.)
CIRCULATION PRESSURE (KPA) PUMP NO. 1 PUMP NO. 2						
10700 152 152 140						
REDUCED PUMP SPEED						
2860 @ 66 @ 1188.00						
DEVIATION SURVEY						
DEPTH (m) DEVIATION (a) DIRECTION						
1189.06 7.7 57.50						
1198.10 7.8 58.40						
NOTES						
d.w.a. g.a. inspect brake pin & linkage, fcl crown cover, blow boiler 2x.						
DRILLER SIGNATURE: Dwayne Arneson						
RATE SCHEDULE: 8.00 11.0 400						
OPERATOR FUEL: 43.00 housekeeping						
M.A.C.P. 1900						

CREW	SOC. INS. NO.	NAME	HRS	INJURIES
Toolpush		RYAN HILDENBRAND	0.50 RH	<input type="checkbox"/> <input checked="" type="checkbox"/>
Driller		Dwayne Arneson	8.00 DA	<input type="checkbox"/> <input checked="" type="checkbox"/>
Derrickman		Mason Paas	8.00 MP	<input type="checkbox"/> <input checked="" type="checkbox"/>
Motorman		Curtis Tucker	8.00 CT	<input type="checkbox"/> <input checked="" type="checkbox"/>
Floorman		Cody Good	8.00 CG	<input type="checkbox"/> <input checked="" type="checkbox"/>
Floorman		Brad Stensrud	8.00 BS	<input type="checkbox"/> <input checked="" type="checkbox"/>
Leaseman		Steven Egely	8.00 SE	<input type="checkbox"/> <input checked="" type="checkbox"/>

NO.	BIT	ACTUAL	D.O.D.	LENGTH	BIT NO.	SIZE	IADC CODE	MFG.	TYPE	SERIAL NO.	JETS	DEPTH OUT (m)	DEPTH IN (m)	TOTAL METERS DRILLED (m)	TOTAL HOURS RUN	WT. OF DC	WT. OF STRING																																				
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MUD TYPE	WATER BASED	OIL BASED	TIME
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	09:00 12:00 15:00
DENSITY (g/cm3)			1300 1305 1305
FUNNEL VIS. (cP)			66 74 68
W.L. (cm3)			7.50 7.50 8.00
pH			11.0 11.5 11.3
calcium			
MUD MATERIAL ADDED			
SOLIDS CONTROL			
Barite 65			
Fed Pac R 1 sx			
Lignite 2 sx			
Calcarb 0 7 sx			

FROM	TO	NO. OF JOINTS	ROTARY R.P.M.	W.P. ON JOINTS	TIME LOG	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1216.00	1234.00	d	25-35	15-16	8:00 8:15 0.25 21	Safety Meeting rotary table dangers
					8:15 8:30 0.25 7	Rig Service fct annular 8 sec c/o
					8:30 15:00 6.50 2	Drill //1216m-1234m
					15:00 16:15 1.25 5	Condition Mud & Circ.
					16:15 20:00 3.75 6	Trip for bit flow checks @1229m,1125m,566m,1.77m & out of hole.fct blind rams 3 sec c/o
CIRCULATION PRESSURE (KPA) PUMP NO. 1 PUMP NO. 2						
10000 152 152 140						
REDUCED PUMP SPEED						
3052 @ 70 @ 1223.00						
DEVIATION SURVEY						
DEPTH (m) DEVIATION (a) DIRECTION						
1207.72 7.6 59.10						
1217.30 6.9 57.90						
NOTES						
d.w.a. g.a. check brake pin & linkage, fcl crown cover, blow boiler 2x.						
DRILLER SIGNATURE: Joe Tedford						
RATE SCHEDULE: 12.00 10.5 400						
OPERATOR FUEL: 50.00 house keeping						
M.A.C.P. 1900						

CREW	SOC. INS. NO.	NAME	HRS	INJURIES
Rig Manager		Dave Pietrzykowski	1.00 DP	<input type="checkbox"/> <input checked="" type="checkbox"/>
Driller		Joe Tedford	12.00 JT	<input type="checkbox"/> <input checked="" type="checkbox"/>
Derrickman		Greg Hatfield	12.00 GH	<input type="checkbox"/> <input checked="" type="checkbox"/>
Motorman		Peter Sunshine	12.00 PS	<input type="checkbox"/> <input checked="" type="checkbox"/>
Floorman		Jeff Holmes	12.00 JH	<input type="checkbox"/> <input checked="" type="checkbox"/>
Floorman		Dwain Roadhouse	12.00 DR	<input type="checkbox"/> <input checked="" type="checkbox"/>
Leaseman		Brad Macdonald	12.00 BM	<input type="checkbox"/> <input checked="" type="checkbox"/>

NO.	BIT	ACTUAL	D.O.D.	LENGTH	BIT NO.	SIZE	IADC CODE	MFG.	TYPE	SERIAL NO.	JETS	DEPTH OUT (m)	DEPTH IN (m)	TOTAL METERS DRILLED (m)	TOTAL HOURS RUN	WT. OF DC	WT. OF STRING																																				
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4	d.c.	36.85			reed																																																
1	jars	4.65			TD53AM																																																
9	d.c.	81.02			D74378																																																
9	hwdp	81.71			M16005																																																
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MUD TYPE	WATER BASED	OIL BASED	TIME
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	00:00
DENSITY (g/cm3)			1305
FUNNEL VIS. (cP)			69
W.L. (cm3)			7.50
pH			11.3
calcium			30
MUD MATERIAL ADDED			
SOLIDS CONTROL			
Barite 65			
Fed Pac R 1 sx			
Lignite 2 sx			
Calcarb 0 7 sx			

FROM	TO	NO. OF JOINTS	ROTARY R.P.M.	W.P. ON JOINTS	TIME LOG	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1234.00	1238.00	d	30	16	20:00 20:15 0.25 21	Safety Meeting J.S.A. review sec.F9,F10,F13.
					20:15 20:30 0.25 7	Rig Service, func. blind ram 3 sec, o/c
					20:30 21:00 0.50 6	Make up bit & run in hole, flow check @ start,647m.
					21:00 21:15 0.25 22	BOP Drill while tripping, func. annular 7 sec. o/c
					21:15 21:30 0.25 5	fill pipe @ 647m, check pulse tool
					21:30 23:00 1.50 6	Run in hole , wash 1 single to bottom 1223m-1233m
					23:00 0:00 1.00 2	Drill Actual // 1234m.- 1238m.
CIRCULATION PRESSURE (KPA) PUMP NO. 1 PUMP NO. 2						
10000 152 152 140						
REDUCED PUMP SPEED						
3052 @ 66 @ 1223.00						
DEVIATION SURVEY						
DEPTH (m) DEVIATION (a) DIRECTION						
NOTES						
d.w.a. g.a. inspect brake pin & linkage, fcl crown cover, blow boiler 2x. Hold B.O.P. drill (tripping)						
DRILLER SIGNATURE: Dwayne Arneson						
RATE SCHEDULE: 4.00 11.0 400						
OPERATOR FUEL: 43.00 pinch points						
M.A.C.P. 1936						

CREW	SOC. INS. NO.	NAME	HRS	INJURIES
Toolpush		RYAN HILDENBRAND	0.50 RH	<input type="checkbox"/> <input checked="" type="checkbox"/>
Driller		Dwayne Arneson	4.00 DA	<input type="checkbox"/> <input checked="" type="checkbox"/>
Derrickman		Mason Paas	4.00 MP	<input type="checkbox"/> <input checked="" type="checkbox"/>
Motorman		Curtis Tucker	4.00 CT	<input type="checkbox"/> <input checked="" type="checkbox"/>
Floorman		Cody Good	4.00 CG	<input type="checkbox"/> <input checked="" type="checkbox"/>
Floorman		Brad Stensrud	4.00 BS	<input type="checkbox"/> <input checked="" type="checkbox"/>
Leaseman		Steven Egely	4.00 SE	<input type="checkbox"/> <input checked="" type="checkbox"/>

SPUD RIG RELEASE JOB NO. AFE 5270083

CONTRACTOR Ensign Drilling Inc.

UNIQUE ID: 300/K-58 66'07" 136'55"

SIGNATURE OF OPERATORS REPRESENTATIVE John Williams

SIGNATURE OF CONTRACTORS REPRESENTATIVE Dave Pietrzykowski

- DAILY CHECKS
- (1) Daily Walk Around Inspection
  - (2) Detailed Inspection-Weekly (using checklists)
  - (3) H2S Signs Posted (if required)
  - (4) Well Location & Stack Diagram Posted
  - (5) Flow Line Bladder
  - (6) BOP Drills Performed
  - (7) Visually Inspect BOP's Flanges & Degasser Lines
  - (8) Rig Site Health and Safety Meeting (pre/shift/weekly)
  - (9) C.A.O.D.C. Rig Safety Inspection Checklist (monthly/weekly)
  - (10) Mast Inspection Before Raising or Lowering
  - (11) Crown Saver Checked
  - (12) Mast Kibs Checked

DATE	26-Mar-2005	LAST CASING TUBING OR LINER	O.D. (mm)	244.5	MDY (D mm)	226.5	kg/m	53.58	MAKE	NUSCO	GRADE	J-55	NO. OF JOISTS	28	TOTAL (mm LENGTH)	355.83	KG TO CSG HEAD (mm)	4.67	SET AT (m)	360.50			
RIG NO.	55	FUEL @ 8:00	WEATHER	TEMPERATURE	114.00	WIND DIRECTION	114.00	ROAD	159.00	DC/DIP (mm)	29.77	LINEAR MASS (kg/m)	E-75	63.50	158.00	4-1/2 XH	145	PUMP TYPE	PZ-8	PUMP MANUFACTURER	Gardner Denver	STROKE LTH. (mm)	203
RIG	203	BOILER 180	WEATHER	TEMPERATURE	114.00	WIND DIRECTION	114.00	ROAD	159.00	DC/DIP (mm)	29.77	LINEAR MASS (kg/m)	E-75	63.50	158.00	4-1/2 XH	145	PUMP TYPE	PZ-7	PUMP MANUFACTURER	Gardner Denver	STROKE LTH. (mm)	178



**Chimo Equipment**  
A Varco Company

Based on the CAODC ETS file standard

TIME - HRS	OPER	START	STOP	ACTUAL	REMARKS
MORN		7.50			
DAY		11.25			
EVE		3.25			
TOTAL		22.00			

NO.	TYPE	NEW	LOADER	MORN	DAY	EVE
8.00	SCREENS CHANGED	<input checked="" type="checkbox"/>	crew truck unit # R5053	8.00	8.00	8.00
12.00	TOP 140U	<input checked="" type="checkbox"/>	TOP 140U			
4.00	MIDDLE	<input checked="" type="checkbox"/>	MIDDLE			
24.00	BOTTOM 110U	<input checked="" type="checkbox"/>	BOTTOM 140 N			

WELL TYPE vertical RE-ENTRY  YES  NO

KB TO GROUND ELEV. 5.00

WELL NAME & No. Eagle Plains K-58 DATE 26-Mar-2005

OPERATOR Devon Canada Ltd. CONTRACTOR Ensign Drilling Inc.

RIG MANAGER Dave Pietrzykowski RIG NO. 55

PROVINCE Yukon CAMP  YES  NO RIG SAFETY DAYS: 288.00

NO.	BIT	LENGTH	BIT NO.	MUD TYPE	TIME
1	bit	0.25	11	WATER BASED	02:00 - 04:00 - 06:00
1	dir tools	30.98	SIZE 222	DENSITY 1315	1315 1305
1	shock sub	3.18	IADC CODE 5 3 7	FUNNEL VIS. (SL)	68 67 62
4	d.c.	36.85	MFG. reed	W.L. (cm3)	6.50 8.00 7.50
1	ars	4.65	TYPE TD53AM	pH	11.0 11.0 11.0
9	d.c.	81.02	SERIAL NO. D74378	calcium	30 30 30
9	hwdp	81.71	JETS	DEPTH OUT (m)	1102.00
				DEPTH IN (m)	1102.00
				TOTAL METERS DRILLED (m)	47.00
				TOTAL HOURS RUN	15.00

FROM	TO	ROTARY R.P.M.	WEI. ON DRILL BIT (kg)	TIME
1121.00	1149.00	d 30	16	0:00 0:15 0:25 7
				0:15 7:45 7:50 2
				7:45 8:00 0:25 10
				10200 152 152 140
				3000 65 1102.00
				1114.60 6.3 66.00
				1123.99 6.2 64.10

NO.	BIT	LENGTH	BIT NO.	MUD TYPE	TIME
1	bit	0.25	11	WATER BASED	09:00 - 12:00 - 15:00
1	dir tools	30.98	SIZE 222	DENSITY 1310	1300 1305
1	shock sub	3.18	IADC CODE 5 3 7	FUNNEL VIS. (SL)	69 70 64
4	d.c.	36.85	MFG. reed	W.L. (cm3)	8.50 7.50
1	ars	4.65	TYPE TD53AM	pH	11.0 11.0 10.8
9	d.c.	81.02	SERIAL NO. D74378	calcium	30 30 30
9	hwdp	81.71	JETS	DEPTH OUT (m)	1102.00
				DEPTH IN (m)	1102.00
				TOTAL METERS DRILLED (m)	84.00
				TOTAL HOURS RUN	26.25

CREW	SOC. INS. NO.	NAME	HRS	INJURIES
Toolpush		RYAN HILDENBRAND	0.50	RH <input type="checkbox"/>
Driller		Dwayne Arneson	8.00	DA <input type="checkbox"/>
Derrickman		Mason Paas	8.00	MP <input type="checkbox"/>
Motorman		Curtis Tucker	8.00	CT <input type="checkbox"/>
Floorman		Cody Good	8.00	CG <input type="checkbox"/>
Floorman		Brad Stensrud	8.00	BS <input type="checkbox"/>
Leaseman		Steven Egely	8.00	SE <input type="checkbox"/>

NO.	BIT	LENGTH	BIT NO.	MUD TYPE	TIME
1	bit	0.25	11	WATER BASED	20:00 - 22:00 - 00:00
1	dir tools	30.98	SIZE 222	DENSITY 1300	1305 1305
1	shock sub	3.18	IADC CODE 5 3 7	FUNNEL VIS. (SL)	66 66 66
4	d.c.	36.85	MFG. reed	W.L. (cm3)	7.50 7.50 7.60
1	ars	4.65	TYPE TD53AM	pH	11.1 11.1 11.0
9	d.c.	81.02	SERIAL NO. D74378	calcium	30 30 30
9	hwdp	81.71	JETS	DEPTH OUT (m)	1197.00
				DEPTH IN (m)	1102.00
				TOTAL METERS DRILLED (m)	95.00
				TOTAL HOURS RUN	29.50

FROM	TO	ROTARY R.P.M.	WEI. ON DRILL BIT (kg)	TIME
1149.00	1186.00	d 30	16	20:00 20:15 0.25 7
				20:15 20:30 0.25 21
				20:30 23:45 3.25 2
				23:45 0:00 0.25 10
				10200 152 152 140
				2860 66 1186.00
				1170.75 7.2 55.60
				1172.35 7.3 55.80
				1175.13 7.4 55.70
				1180.10 7.5 56.90

NO.	BIT	LENGTH	BIT NO.	MUD TYPE	TIME
1	bit	0.25	11	WATER BASED	00:00 - 02:00 - 04:00
1	dir tools	30.98	SIZE 222	DENSITY 1305	1305 1305
1	shock sub	3.18	IADC CODE 5 3 7	FUNNEL VIS. (SL)	66 66 66
4	d.c.	36.85	MFG. reed	W.L. (cm3)	7.50 7.50 7.60
1	ars	4.65	TYPE TD53AM	pH	11.1 11.1 11.0
9	d.c.	81.02	SERIAL NO. D74378	calcium	30 30 30
9	hwdp	81.71	JETS	DEPTH OUT (m)	1197.00
				DEPTH IN (m)	1102.00
				TOTAL METERS DRILLED (m)	95.00
				TOTAL HOURS RUN	29.50

CREW	SOC. INS. NO.	NAME	HRS	INJURIES
Rig Manager		Dave Pietrzykowski	1.00	DP <input type="checkbox"/>
Driller		Joe Tedford	12.00	JT <input type="checkbox"/>
Derrickman		Greg Hatfield	12.00	GH <input type="checkbox"/>
Motorman		Peter Sunshine	12.00	PS <input type="checkbox"/>
Floorman		Jeff Holmes	12.00	JH <input type="checkbox"/>
Floorman		Dwain Roadhouse	12.00	DR <input type="checkbox"/>
Leaseman		Brad Macdonald	12.00	BM <input type="checkbox"/>

NO.	BIT	LENGTH	BIT NO.	MUD TYPE	TIME
1	bit	0.25	11	WATER BASED	02:00 - 04:00 - 06:00
1	dir tools	30.98	SIZE 222	DENSITY 1300	1305 1305
1	shock sub	3.18	IADC CODE 5 3 7	FUNNEL VIS. (SL)	66 66 66
4	d.c.	36.85	MFG. reed	W.L. (cm3)	7.50 7.50 7.60
1	ars	4.65	TYPE TD53AM	pH	11.1 11.1 11.0
9	d.c.	81.02	SERIAL NO. D74378	calcium	30 30 30
9	hwdp	81.71	JETS	DEPTH OUT (m)	1197.00
				DEPTH IN (m)	1102.00
				TOTAL METERS DRILLED (m)	95.00
				TOTAL HOURS RUN	29.50

FROM	TO	ROTARY R.P.M.	WEI. ON DRILL BIT (kg)	TIME
1186.00	1197.00	d 30	16	20:00 20:15 0.25 7
				20:15 20:30 0.25 21
				20:30 23:45 3.25 2
				23:45 0:00 0.25 10
				10200 152 152 140
				2860 66 1186.00
				1170.75 7.2 55.60
				1172.35 7.3 55.80
				1175.13 7.4 55.70
				1180.10 7.5 56.90

NO.	BIT	LENGTH	BIT NO.	MUD TYPE	TIME
1	bit	0.25	11	WATER BASED	00:00 - 02:00 - 04:00
1	dir tools	30.98	SIZE 222	DENSITY 1305	1305 1305
1	shock sub	3.18	IADC CODE 5 3 7	FUNNEL VIS. (SL)	66 66 66
4	d.c.	36.85	MFG. reed	W.L. (cm3)	7.50 7.50 7.60
1	ars	4.65	TYPE TD53AM	pH	11.1 11.1 11.0
9	d.c.	81.02	SERIAL NO. D74378	calcium	30 30 30
9	hwdp	81.71	JETS	DEPTH OUT (m)	1197.00
				DEPTH IN (m)	1102.00
				TOTAL METERS DRILLED (m)	95.00
				TOTAL HOURS RUN	29.50

CREW	SOC. INS. NO.	NAME	HRS	INJURIES
Toolpush		RYAN HILDENBRAND	0.50	RH <input type="checkbox"/>
Driller		Dwayne Arneson	4.00	DA <input type="checkbox"/>
Derrickman		Mason Paas	4.00	MP <input type="checkbox"/>
Motorman		Curtis Tucker	4.00	CT <input type="checkbox"/>
Floorman		Cody Good	4.00	CG <input type="checkbox"/>
Floorman		Brad Stensrud	4.00	BS <input type="checkbox"/>
Leaseman		Steven Egely	4.00	SE <input type="checkbox"/>



Chimo Equipment  
A Varco Company

Based on the CAODC ETS file standard

SPUD: RIG RELEASE: JOB NO. 136 AFE 5270083  
 LICENCE NO. 11120 WELL NAME AND NO. Eagle Plains K-58  
 OPERATOR: Devon Canada Ltd. CONTRACTOR: Ensign Drilling Inc.  
 SURFACE LOCATION: 60° 07' 34.8" UNIQUE ID: 300/K-58 66° 07' 136° 55"  
 SIGNATURE OF OPERATORS REPRESENTATIVE: John Williams  
 SIGNATURE OF CONTRACTORS REPRESENTATIVE: Dave Pietrzykowski

DAILY CHECKS:  
 (1) Daily Wash Around Inspection  
 (2) Detailed Inspection Weekly (using checklist)  
 (3) HSE Spill Response if required  
 (4) Well Leaks & Bleed Diagram Posted  
 (5) Flame Line Banded  
 (6) BOP Dims Performed  
 (7) Visually inspect BOP's Flarelines & Degasser Lines  
 (8) Rig Site Health and Safety Meeting (pre-shift/turnover)  
 (9) CAODC Rig Safety Inspection Checklist (turnover/morning)  
 (10) Visual Inspection Before Raising or Lowering  
 (11) Crown Drive Checked  
 (12) Motor Oil Checked

DATE: 25-Mar-2005  
 LAST CASING TUBING OR LINER: FUEL @ 8.00  
 RIG NO.: 55  
 RIG: 215 BOILER 198

WEATHER:  
 TEMPERATURE: 114.00  
 CURRENT CONDITION: 114.00  
 WIND DIRECTION: 114.00  
 ROAD: 159.00

SHALE SHAKER(S): Loader  
 RENTALS/SERVICES: crew truck unit # R5053

TIME - HRS	OPER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL	
MORN	6.00																												
DAY	4.25																												
EVE	3.25																												
TOTAL	13.50																												

WELL TYPE: vertical  
 RE-ENTRY:  YES  NO  
 KG TO GROUND ELEV.: 5.00  
 WELL NAME & No.: Eagle Plains K-58  
 DATE: 25-Mar-2005  
 OPERATOR: Devon Canada Ltd.  
 CONTRACTOR: Ensign Drilling Inc.  
 RIG MANAGER: Dave Pietrzykowski  
 RIG NO.: 55  
 PROVINCE: Yukon  
 CAMP:  YES  NO  
 RIG SAFETY DAYS: 287.00

NO.	DRILLING ASSEMBLY	BIT	D.D. (mm)	LENGTH	BIT NO.	SIZE	MUD TYPE	WATER BASED	OL BASED	TIME	DEPTH OUT (m)	DEPTH IN (m)	TOTAL METERS DRILLED (m)	TOTAL HOURS RUN	WT. OF DC	WT. OF STRNG
1	bit		0.25		10	222				02:00						
1	dir tools		31.05							04:00						
1	shock sub		3.18							06:00						
4	d.c.		36.85													
1	jars		4.65													
9	d.c.		81.02													
9	hwdp		81.71													
b.h.a. 238.71																
TOTAL HOURS RUN 19.75																
45	D.P.	STANDS	851.94													
1	D.P.	SINGLES	9.51													
KELLYDOWN 2.42																
TOTAL 1102.58																
HOLE DRAG																
TORQUE AT BOTTOM																
FILL ON BOTTOM (m)																

FROM	TO	DEVIATION (m)	DEVIATION (°)	DIRECTION
1088.00	1102.00	D	35	16
1077.44		3.5		67.20
1086.58		43		65.80

CREW	SOC. INS. NO.	NAME	HRS	INJURIES
Toolpush		RYAN HILDENBRAND	0.50	RH
Driller		Dwayne Arneson	8.00	DA
Derrickman		Mason Paas	8.00	MP
Motorman		Curtis Tucker	8.00	CT
Floorman		Cody Good	8.00	CG
Floorman		Brad Stensrud	8.00	BS
Leaseman		Steven Egely	8.00	SE

NO.	DRILLING ASSEMBLY	BIT	D.D. (mm)	LENGTH	BIT NO.	SIZE	MUD TYPE	WATER BASED	OL BASED	TIME	DEPTH OUT (m)	DEPTH IN (m)	TOTAL METERS DRILLED (m)	TOTAL HOURS RUN	WT. OF DC	WT. OF STRNG
1	bit		0.25		10	222				16:00						
1	dir tools		30.98							18:00						
1	shock sub		3.18													
4	d.c.		36.85													
1	jars		4.65													
9	d.c.		81.02													
9	hwdp		81.71													
b.h.a. 238.71																
TOTAL HOURS RUN 42.25																
45	D.P.	STANDS	851.94													
1	D.P.	SINGLES	9.51													
KELLYDOWN 12.00																
TOTAL 1112.09																
HOLE DRAG																
TORQUE AT BOTTOM																
FILL ON BOTTOM (m)																

FROM	TO	DEVIATION (m)	DEVIATION (°)	DIRECTION
1102.00	1112.00	d	25-35	15-16
1086.58		4.3		66.10
1096.09		5.1		65.50

CREW	SOC. INS. NO.	NAME	HRS	INJURIES
Rig Manager		Dave Pietrzykowski	1.00	DP
Driller		Joe Tedford	12.00	JT
Derrickman		Greg Hatfield	12.00	GH
Motorman		Peter Sunshine	12.00	PS
Floorman		Jeff Holmes	12.00	JH
Floorman		Dwain Roadhouse	12.00	DR
Leaseman		Brad Macdonald	12.00	BM

NO.	DRILLING ASSEMBLY	BIT	D.D. (mm)	LENGTH	BIT NO.	SIZE	MUD TYPE	WATER BASED	OL BASED	TIME	DEPTH OUT (m)	DEPTH IN (m)	TOTAL METERS DRILLED (m)	TOTAL HOURS RUN	WT. OF DC	WT. OF STRNG
1	bit		0.25		11	222				20:00						
1	dir tools		30.98							22:00						
1	shock sub		3.18							22:00						
4	d.c.		36.85													
1	jars		4.65													
9	d.c.		81.02													
9	hwdp		81.71													
b.h.a. 238.71																
TOTAL HOURS RUN 7.50																
46	D.P.	STANDS	870.78													
1	D.P.	SINGLES	2.53													
KELLYDOWN 12.00																
TOTAL 1121.42																
HOLE DRAG																
TORQUE AT BOTTOM																
FILL ON BOTTOM (m)																

FROM	TO	DEVIATION (m)	DEVIATION (°)	DIRECTION
1112.00	1121.00	d	40	16
1105.42		5.8		66.10

CREW	SOC. INS. NO.	NAME	HRS	INJURIES
Toolpush		RYAN HILDENBRAND	0.50	RH
Driller		Dwayne Arneson	4.00	DA
Derrickman		Mason Paas	4.00	MP
Motorman		Curtis Tucker	4.00	CT
Floorman		Cody Good	4.00	CG
Floorman		Brad Stensrud	4.00	BS
Leaseman		Steven Egely	4.00	SE





Chimo Equipment  
A Varco Company

Based on the CAODC ETS file standard

SPUD	RIG RELEASE	JOB NO.	AFE	5270083
LICENCE NO.	WELL NAME AND NO.	CONTRACTOR	Ensign Drilling Inc.	
11120	Eagle Plains K-58	UNIQUE ID:	300/K-58 66°07' 136°55"	
OPERATOR	DEVON Canada Ltd.	SIGNATURE OF OPERATORS REPRESENTATIVE	John Williams	
SURFACE LOCATION	60° 07' 34.8"	SIGNATURE OF CONTRACTORS REPRESENTATIVE	Dave Pietrzykowski	

DAILY CHECKS	DATE	24-Mar-2005	LAST CASING TUBING OR LINER	FUEL @ 8:00
(1) Daily Walk Around Inspection	RIG NO.	55		
(2) Detailed Inspection-Weekly (using checklist)	RIG	150	BOILER	195
(3) VSS Signal Picked (if required)	TEMPERATURE	114.00	DCOP SIZE (mm)	226.5
(4) Well Location & Stick Diagram Posted	CURRENT CONDITION	114.00	LINEAR MASS (kg/m)	53.58
(5) Fans Live Checked	WIND DIRECTION	114.00	GRADE	E-75
(6) BOP Drills Performed	ROAD	159.00	W.M. ID. (mm)	63.50
(7) Visually Inspect BOP & Flarelines & Degasser Lines			TOOL JT O.D. (mm)	158.00
(8) Rig Site Health and Safety Meeting (operator/workers)			THREAD TYPE	4-1/2 XH
(9) C.A.O.D.C. Rig Entry Inspection Checklist (monthly/monthly)			NO. OF JOINTS	145
(10) Used Inspection Before Raising or Lowering			PUMP TYPE	PZ-8
(11) Crown Saver Checked			PUMP MANUFACTURER	Gardner Denver
(12) Motor Kils Checked			STROKE (LX) (mm)	203

TIME - HRS	CODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
MORN	5.00																								
DAY	11.00																								
EVE	1.75																								
TOTAL	13.75																								

SHALE SHAKER(S)	RENTALS/SERVICES	NO. 1	TYPE	NEW	Loader	NO. 2	TYPE	NEW	crew truck unit # R5053
SCREENS CHANGED	YES	NO							
TOP	140U	TOP	140U						
MIDDLE		MIDDLE							
BOTTOM	110U	BOTTOM	140N						

WELL TYPE	Vertical	RE-ENTRY	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	KB TO GROUND ELEV.	5.00
WELL NAME & No.	Eagle Plains K-58	DATE	24-Mar-2005		
OPERATOR	Devon Canada Ltd.	CONTRACTOR	Ensign Drilling Inc.		
RIG MANAGER	Dave Pietrzykowski	RIG NO.	55		
PROVINCE	Yukon	CAMP	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	RIG SAFETY DAYS:	286.00

BIT RECORD		MUD RECORD	
NO.	DRILLING ASSEMBLY	NO.	DRILLING ASSEMBLY
1	bit	1	dir tools
1	shock sub	1	d.c.
1	jars	1	jars
9	d.c.	9	hwdp
DEPTH OUT (m)		DEPTH IN (m)	
1052.00		1052.00	
TOTAL METERS DRILLED (m)		TOTAL METERS DRILLED (m)	
163.00		163.00	
TOTAL HOURS RUN		TOTAL HOURS RUN	
50.75		50.75	
CUTTING STRUCTURE		CUTTING STRUCTURE	
5 7 wt a e 2 fc pr 3.21		5 7 wt a e 2 fc pr 3.21	
HOLE CONDITION		HOLE CONDITION	
HOLE DRAG		HOLE DRAG	
TORQUE AT BOTTOM		TORQUE AT BOTTOM	
16.00		16.00	
FILL ON BOTTOM (m)		FILL ON BOTTOM (m)	
40.00		40.00	

METERS DRILLED		TIME LOG		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	
FROM	TO	FROM	TO	FROM	TO
1052.00	1054.00	0:00	3:00	0:00	3:00
Trip for bit, flocheq @ 575m,185m,out		Safety Meeting		Trip for bit, flocheq @ 575m,185m,out	
Dir. Work LAY out motor/ pick up set motor		Rig Service blind ram closed 3 sec.		Dir. Work LAY out motor/ pick up set motor	
Trip, run in hole, flocheq @ start,604m, fill pipe @ 604m test tool		Drill Actual f/1052m.- 1054m.		Trip, run in hole, flocheq @ start,604m, fill pipe @ 604m test tool	
hole fill act.-7.87 cal.-7.40 diff.-.47m3				hole fill act.-7.87 cal.-7.40 diff.-.47m3	

MORNING TOUR		DAY TOUR		EVENING TOUR	
0:00	TO 8:00	8:00	TO 20:00	20:00	TO 24:00
TOOLPUSH	RYAN HILDENBRAND	RIG MANAGER	DAVE PIETRZYKOWSKI	TOOLPUSH	RYAN HILDENBRAND
DRILLER	DWAYNE AMESON	DRILLER	JOE TEDFORD	DRILLER	DWAYNE AMESON
DERRICKMAN	MASON PAAS	DERRICKMAN	GREG HATFIELD	DERRICKMAN	MASON PAAS
MOTORMAN	CURTIS TUCKER	MOTORMAN	PETER SUNSHINE	MOTORMAN	CURTIS TUCKER
FLOORMAN	CODY GOOD	FLOORMAN	JEFF HOLMES	FLOORMAN	CODY GOOD
FLOORMAN	BRAD STENSrud	FLOORMAN	DWALN ROADHOUSE	FLOORMAN	BRAD STENSrud
LEASEMAN	STEVEN EGELY	LEASEMAN	BRAD MACDONALD	LEASEMAN	STEVEN EGELY

BIT RECORD		MUD RECORD	
NO.	DRILLING ASSEMBLY	NO.	DRILLING ASSEMBLY
1	bit	1	dir tools
1	shock sub	1	d.c.
1	jars	1	jars
9	d.c.	9	hwdp
DEPTH OUT (m)		DEPTH IN (m)	
1052.00		1052.00	
TOTAL METERS DRILLED (m)		TOTAL METERS DRILLED (m)	
29.00		29.00	
TOTAL HOURS RUN		TOTAL HOURS RUN	
12.00		12.00	
CUTTING STRUCTURE		CUTTING STRUCTURE	
2.42		2.42	
HOLE CONDITION		HOLE CONDITION	
HOLE DRAG		HOLE DRAG	
TORQUE AT BOTTOM		TORQUE AT BOTTOM	
16.00		16.00	
FILL ON BOTTOM (m)		FILL ON BOTTOM (m)	
42.00		42.00	

METERS DRILLED		TIME LOG		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	
FROM	TO	FROM	TO	FROM	TO
1054.00	1081.00	8:00	8:15	8:00	8:15
Safety Meeting reviewed training sessions 46,47,48,49,50 & 51,reviewed safety alert # 38. Had BOP Drill		Rig Service fct annular 8 sec c/o		Safety Meeting reviewed training sessions 46,47,48,49,50 & 51,reviewed safety alert # 38. Had BOP Drill	
Drill f/1054m-1066m		Safety Meeting man down drill		Drill f/1054m-1066m	
Drill f/1066m-1081m		Deviation Surveys accumulated		Drill f/1066m-1081m	
Deviation Surveys accumulated				Deviation Surveys accumulated	

MORNING TOUR		DAY TOUR		EVENING TOUR	
0:00	TO 8:00	8:00	TO 20:00	20:00	TO 24:00
TOOLPUSH	RYAN HILDENBRAND	RIG MANAGER	DAVE PIETRZYKOWSKI	TOOLPUSH	RYAN HILDENBRAND
DRILLER	DWAYNE AMESON	DRILLER	JOE TEDFORD	DRILLER	DWAYNE AMESON
DERRICKMAN	MASON PAAS	DERRICKMAN	GREG HATFIELD	DERRICKMAN	MASON PAAS
MOTORMAN	CURTIS TUCKER	MOTORMAN	PETER SUNSHINE	MOTORMAN	CURTIS TUCKER
FLOORMAN	CODY GOOD	FLOORMAN	JEFF HOLMES	FLOORMAN	CODY GOOD
FLOORMAN	BRAD STENSrud	FLOORMAN	DWALN ROADHOUSE	FLOORMAN	BRAD STENSrud
LEASEMAN	STEVEN EGELY	LEASEMAN	BRAD MACDONALD	LEASEMAN	STEVEN EGELY

BIT RECORD		MUD RECORD	
NO.	DRILLING ASSEMBLY	NO.	DRILLING ASSEMBLY
1	bit	1	dir tools
1	shock sub	1	d.c.
1	jars	1	jars
9	d.c.	9	hwdp
DEPTH OUT (m)		DEPTH IN (m)	
1052.00		1052.00	
TOTAL METERS DRILLED (m)		TOTAL METERS DRILLED (m)	
36.00		36.00	
TOTAL HOURS RUN		TOTAL HOURS RUN	
13.75		13.75	
CUTTING STRUCTURE		CUTTING STRUCTURE	
2.62		2.62	
HOLE CONDITION		HOLE CONDITION	
HOLE DRAG		HOLE DRAG	
TORQUE AT BOTTOM		TORQUE AT BOTTOM	
16.00		16.00	
FILL ON BOTTOM (m)		FILL ON BOTTOM (m)	
42.00		42.00	

METERS DRILLED		TIME LOG		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	
FROM	TO	FROM	TO	FROM	TO
1081.00	1088.00	20:00	20:15	20:00	20:15
Rig Service fct pipe ram		repair chimo		Rig Service fct pipe ram	
Drill Actual f/ 1081m.- 1088m.		Deviation Survey (accm.)		Drill Actual f/ 1081m.- 1088m.	
Deviation Survey (accm.)				Deviation Survey (accm.)	

MORNING TOUR		DAY TOUR		EVENING TOUR	
0:00	TO 8:00	8:00	TO 20:00	20:00	TO 24:00
TOOLPUSH	RYAN HILDENBRAND	RIG MANAGER	DAVE PIETRZYKOWSKI	TOOLPUSH	RYAN HILDENBRAND
DRILLER	DWAYNE AMESON	DRILLER	JOE TEDFORD	DRILLER	DWAYNE AMESON
DERRICKMAN	MASON PAAS	DERRICKMAN	GREG HATFIELD	DERRICKMAN	MASON PAAS
MOTORMAN	CURTIS TUCKER	MOTORMAN	PETER SUNSHINE	MOTORMAN	CURTIS TUCKER
FLOORMAN	CODY GOOD	FLOORMAN	JEFF HOLMES	FLOORMAN	CODY GOOD
FLOORMAN	BRAD STENSrud	FLOORMAN	DWALN ROADHOUSE	FLOORMAN	BRAD STENSrud
LEASEMAN	STEVEN EGELY	LEASEMAN	BRAD MACDONALD	LEASEMAN	STEVEN EGELY



Chimo Equipment A Varco Company

Based on the CAODC ETS file standard

SPUD, RIG RELEASE, JOB NO., AFE, LICENCE NO., WELL NAME AND NO., OPERATOR, SURFACE LOCATION, SIGNATURE OF OPERATORS REPRESENTATIVE

DAILY CHECKS, OPR., R.M., DATE, LAST CASING TUBING OR LINER, FUEL @ 8:00, TEMPERATURE, DCOP SIZE, LINEAR MASS, GRADE, MIN ID, TOOL JT O D, THREAD TYPE, NO OF JOINTS, PUMP TYPE, PUMP MANUFACTURER, STROKE LTR (min)

Table with columns: O.D. (mm), MIN ID (mm), Lg(m), MAKE, GRADE, NO OF JOINTS, TOTAL (m) LENGTH, KB TO CGO HEAD (m), RET AT (m)

TIME HRS table with columns: CODE NO., OPER, MORN, DAY, EVE, TOTAL

SHALES SHAKER(S) table with columns: NO., TYPE, NEW, MO, DAY, LEVEL

RENTALS/SERVICES table with columns: NO., TYPE, NEW, MO, DAY, LEVEL

WELL TYPE, RE-ENTRY, KB TO GROUND ELEV., WELL NAME & No., DATE, OPERATOR, CONTRACTOR, RIG MANAGER, RIG NO., PROVINCE, CAMP, RIG SAFETY DAYS

BIT RECORD table with columns: NO., BIT LENGTH, BIT NO., SIZE, IADC CODE, MFG., TYPE, SERIAL NO., JETS, DEPTH OUT (m), DEPTH IN (m), TOTAL METERS DRILLED (m), TOTAL HOURS RUN

MUD RECORD table with columns: MUD TYPE, TIME, DENSITY, FUNNEL VIS., W.L., PH, DEPTH OUT (m), DEPTH IN (m), TOTAL METERS DRILLED (m), TOTAL HOURS RUN

METERS DRILLED table with columns: FROM, TO, ROTARY R.P.M., WT. ON BIT, TIME LOG, CIRCULATION PRESSURE, PUMP NO., LINEAR MASS, GRADE, MIN ID, TOOL JT O D, THREAD TYPE, NO OF JOINTS, PUMP TYPE, PUMP MANUFACTURER, STROKE LTR (min)

DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS table with columns: FROM, TO, ROTARY R.P.M., WT. ON BIT, TIME LOG, CIRCULATION PRESSURE, PUMP NO., LINEAR MASS, GRADE, MIN ID, TOOL JT O D, THREAD TYPE, NO OF JOINTS, PUMP TYPE, PUMP MANUFACTURER, STROKE LTR (min)

BIT RECORD table with columns: NO., BIT LENGTH, BIT NO., SIZE, IADC CODE, MFG., TYPE, SERIAL NO., JETS, DEPTH OUT (m), DEPTH IN (m), TOTAL METERS DRILLED (m), TOTAL HOURS RUN

MUD RECORD table with columns: MUD TYPE, TIME, DENSITY, FUNNEL VIS., W.L., PH, DEPTH OUT (m), DEPTH IN (m), TOTAL METERS DRILLED (m), TOTAL HOURS RUN

METERS DRILLED table with columns: FROM, TO, ROTARY R.P.M., WT. ON BIT, TIME LOG, CIRCULATION PRESSURE, PUMP NO., LINEAR MASS, GRADE, MIN ID, TOOL JT O D, THREAD TYPE, NO OF JOINTS, PUMP TYPE, PUMP MANUFACTURER, STROKE LTR (min)

DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS table with columns: FROM, TO, ROTARY R.P.M., WT. ON BIT, TIME LOG, CIRCULATION PRESSURE, PUMP NO., LINEAR MASS, GRADE, MIN ID, TOOL JT O D, THREAD TYPE, NO OF JOINTS, PUMP TYPE, PUMP MANUFACTURER, STROKE LTR (min)

BIT RECORD table with columns: NO., BIT LENGTH, BIT NO., SIZE, IADC CODE, MFG., TYPE, SERIAL NO., JETS, DEPTH OUT (m), DEPTH IN (m), TOTAL METERS DRILLED (m), TOTAL HOURS RUN

MUD RECORD table with columns: MUD TYPE, TIME, DENSITY, FUNNEL VIS., W.L., PH, DEPTH OUT (m), DEPTH IN (m), TOTAL METERS DRILLED (m), TOTAL HOURS RUN

METERS DRILLED table with columns: FROM, TO, ROTARY R.P.M., WT. ON BIT, TIME LOG, CIRCULATION PRESSURE, PUMP NO., LINEAR MASS, GRADE, MIN ID, TOOL JT O D, THREAD TYPE, NO OF JOINTS, PUMP TYPE, PUMP MANUFACTURER, STROKE LTR (min)

DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS table with columns: FROM, TO, ROTARY R.P.M., WT. ON BIT, TIME LOG, CIRCULATION PRESSURE, PUMP NO., LINEAR MASS, GRADE, MIN ID, TOOL JT O D, THREAD TYPE, NO OF JOINTS, PUMP TYPE, PUMP MANUFACTURER, STROKE LTR (min)





Chimo Equipment  
A Varco Company

Based on the CAODC ETS file standard

SPUD RIG RELEASE JOB NO. 136 AFE 5270083

WELL NAME AND NO. Eagle Plains K-58

CONTRACTOR Ensign Drilling Inc.

UNIQUE ID: 300/K-58 66°07' 136°55"

SIGNATURE OF OPERATORS REPRESENTATIVE John Williams

SIGNATURE OF CONTRACTORS REPRESENTATIVE Dave Pietrzykowski

- DAILY CHECKS
- (1) Daily WMA Around Inspection
  - (2) Detailed Inspection (Weekly) (using checklist)
  - (3) KCS Sump (Periodic or Request)
  - (4) Well Leaks & Slack Diagram Posted
  - (5) Flare Line Drilled
  - (6) BOP Daily Performed
  - (7) Visually Inspect BOP's Pilelines & Degasser Lines
- (1) Rig Site Health and Safety Meeting (as per contract)
- (2) C & D D.C. Rig Safety Inspection Checklist (as per contract)
- (3) Mast Inspection Before Raising of Lowering
- (4) Crown Shear Checked
- (5) Motor F/W Checked

DATE	21-Mar-2005	LAST CASING TUBING OR LINER	FUEL @ 8:00
RIG NO.	55	BOILER	177
TEMPERATURE	114.00	DCOIP SIZE (mm)	114.00
CURRENT CONDITION	114.00	LINEAR MASS (kg/m)	62.45
WIND DIRECTION	114.00	GRADE	H.W.
ROAD	159.00	MIN ID (mm)	73.03
		MAX ID (mm)	158.00
		W.T. (mm)	159.00
		GRADE	D.C.
		MIN ID (mm)	64.00
		MAX ID (mm)	159.00
		W.T. (mm)	159.00
		GRADE	4-1/2 XH
		NO. OF JOINTS	14

TIME - HRS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
MORN																								
DAY	9.00																							
EVE	3.25																							
TOTAL	12.25																							

SHALE SHAKER(S)	NO. 1	TYPE	NEW	Loader
RENTALS/SERVICES	MORN	DAY	EVE	
	8.00	8.00	8.00	
SCREENS CHANGED	YES	NO		
TOP	175 N	TOP	140 U	
MIDDLE		MIDDLE		
BOTTOM	175 N	BOTTOM	140 N	
TOTAL	24.00			

WELL TYPE vertical

RE-ENTRY  YES  NO

KB TO GROUND ELEV. 5.00

DATE 21-Mar-2005

WELL NAME & No. Eagle Plains K-58

OPERATOR Devon Canada Ltd.

CONTRACTOR Ensign Drilling Inc.

RIG MANAGER Dave Pietrzykowski

RIG NO. 55

PROVINCE Yukon

CAMP  YES  NO

RIG SAFETY DAYS: 283.00

DRILLING ASSEMBLY		BIT RECORD		MUD RECORD	
NO.	BIT	NO.	SIZE	MUD TYPE	AMOUNT x UNIT
1	dir tools	31.05	222	Barite	25 SK
1	shock sub	3.18			
4	d.c.	36.85			
1	jars	4.65			
9	d.c.	81.02			
9	hwdp	81.71			
TOTAL		889.00			

DRILLING ASSEMBLY		BIT RECORD		MUD RECORD	
NO.	BIT	NO.	SIZE	MUD TYPE	AMOUNT x UNIT
1	dir tools	31.05	222	Barite	25 SK
1	shock sub	3.18			
4	d.c.	36.85			
1	jars	4.65			
9	d.c.	81.02			
9	hwdp	81.71			
TOTAL		889.00			

METERS DRILLED		TIME LOG		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	
FROM	TO	TIME	REMARKS	FROM	TO
889.00		0:00	0:15	0:25	21
		0:15	0:30	0:25	5
		0:30	2:15	1:75	6
		2:15	3:15	1:00	5
		3:15	6:30	3:25	6
		6:30	7:45	1:25	20
		7:45	8:00	0:25	7
HOLE FULL ACT-5.63 CAL -4.85 DIFF -78					

MORNING TOUR		8:00 TO 8:00		INJURIES	
CREW	SOC. INS. NO.	NAME	HRS	YES	NO
Toolpush		RYAN HILDENBRAND	0.50	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Driller		Rob Baller	8.00	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Derrickman		Stewart Surridge	8.00	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Motorman		Dave Martel	8.00	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Floorman		CAM DEVRIES	8.00	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Floorman		Riley Treen	8.00	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Leaseman		Stephen Sorenson	8.00	<input type="checkbox"/>	<input checked="" type="checkbox"/>

DRILLING ASSEMBLY		BIT RECORD		MUD RECORD	
NO.	BIT	NO.	SIZE	MUD TYPE	AMOUNT x UNIT
1	dir tools	31.05	222	Barite	57
1	shock sub	3.18			
4	d.c.	36.85			
1	jars	4.65			
9	d.c.	81.02			
9	hwdp	81.71			
TOTAL		889.00			

DRILLING ASSEMBLY		BIT RECORD		MUD RECORD	
NO.	BIT	NO.	SIZE	MUD TYPE	AMOUNT x UNIT
1	dir tools	31.05	222	Barite	57
1	shock sub	3.18			
4	d.c.	36.85			
1	jars	4.65			
9	d.c.	81.02			
9	hwdp	81.71			
TOTAL		889.00			

METERS DRILLED		TIME LOG		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	
FROM	TO	TIME	REMARKS	FROM	TO
889.00	914.00	8:00	8:15	0:25	21
		8:15	9:30	1:25	6
		9:30	9:45	0:25	7
		9:45	18:45	9:00	2
		18:45	19:45	1:00	22
		19:45	20:00	0:25	10
HOLE FULL ACT-5.63 CAL -4.85 DIFF -78					

DAY TOUR		8:00 TO 20:00		INJURIES	
CREW	SOC. INS. NO.	NAME	HRS	YES	NO
Rig Manager		Dave Pietrzykowski	1.00	DP	<input checked="" type="checkbox"/>
Driller		Dwayne Arneson	12.00	DA	<input checked="" type="checkbox"/>
Derrickman		Mason Paas	12.00	MP	<input checked="" type="checkbox"/>
Motorman		Curtis Tucker	12.00	CT	<input checked="" type="checkbox"/>
Floorman		Cody Good	12.00	CG	<input checked="" type="checkbox"/>
Floorman		Brad Stensrud	12.00	BS	<input checked="" type="checkbox"/>
Leaseman		dino plescia	12.00	dp	<input checked="" type="checkbox"/>

DRILLING ASSEMBLY		BIT RECORD		MUD RECORD	
NO.	BIT	NO.	SIZE	MUD TYPE	AMOUNT x UNIT
1	dir tools	31.05	222	Barite	30 sk
1	shock sub	3.18			
4	d.c.	36.85			
1	jars	4.65			
9	d.c.	81.02			
9	hwdp	81.71			
TOTAL		889.00			

DRILLING ASSEMBLY		BIT RECORD		MUD RECORD	
NO.	BIT	NO.	SIZE	MUD TYPE	AMOUNT x UNIT
1	dir tools	31.05	222	Barite	30 sk
1	shock sub	3.18			
4	d.c.	36.85			
1	jars	4.65			
9	d.c.	81.02			
9	hwdp	81.71			
TOTAL		889.00			

METERS DRILLED		TIME LOG		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	
FROM	TO	TIME	REMARKS	FROM	TO
914.00	930.00	20:00	20:15	0:25	21
		20:15	20:30	0:25	7
		20:30	23:45	3:25	2
		23:45	24:00	0:25	10
HOLE FULL ACT-5.63 CAL -4.85 DIFF -78					

EVENING TOUR		20:00 TO 24:00		INJURIES	
CREW	SOC. INS. NO.	NAME	HRS	YES	NO
Toolpush		RYAN HILDENBRAND	0.50	RH	<input checked="" type="checkbox"/>
Driller		Rob Baller	4.00	RB	<input checked="" type="checkbox"/>
Derrickman		Stewart Surridge	4.00	SS	<input checked="" type="checkbox"/>
Motorman		Dave Martel	4.00	DM	<input checked="" type="checkbox"/>
Floorman		CAM DEVRIES	4.00	CD	<input checked="" type="checkbox"/>
Floorman		Riley Treen	4.00	RT	<input checked="" type="checkbox"/>
Leaseman		Stephen Sorenson	4.00	SS	<input checked="" type="checkbox"/>



Chimo Equipment A Varco Company

Based on the CAODC ETS file standard

SPUD, RIG RELEASE, JOB NO., AFE, 5270083, LICENCE NO. 11120, WELL NAME AND NO. Eagle Plains K-58, OPERATOR Devon Canada Ltd., CONTRACTOR Ensign Drilling Inc., SURFACE LOCATION 60° 07' 34.8", SIGNATURE OF OPERATORS REPRESENTATIVE John Williams, SIGNATURE OF CONTRACTORS REPRESENTATIVE Dave Pietrzykowski

- DAILY CHECKS: (1) Daily Walk Around Inspection, (2) Detailed Inspection-Weekly (using checkst), (3) >25 Signs Placed (if required), (4) Visual Survey & Stick Diagram Posted, (5) Flare Line Tested, (6) BOP Data Performed, (7) Visually Inspect BOP's Flarelines & Degasser Lines, (8) Rig Site Health and Safety Meeting (one/one/month), (9) CAODC Rig Safety Inspection Checks (one/month), (10) Mast Inspection Before Raising or Lowering, (11) Crown Saver Checked, (12) Motor X's Checked

DATE 20-Mar-2005, LAST CASING TUBING OR LINER, D.D. (mm) 244.6, MIN ID (mm) 226.6, g/hm 63.58, MAKE NUSCO, GRADE J-55, NO. OF JOINTS 28, TOTAL LIN LENGTH 355.83, NB TO CAS HEAD (m) 4.67, SET AT (m) 360.50, FUEL @ 8:00, RIG 145, BOILER 220, WEATHER: TEMPERATURE 114.00, DDDP SIZE (mm) 29.77, GRADE E-75, MIN ID (mm) 63.50, TOOL JT O.D. (mm) 158.00, THREAD TYPE 4-1/2 XH, NO. OF JOINTS 145, PUMP TYPE PZ-8, PUMP MANUFACTURER Gardner Denver, STROKE LTR (min) 203, CURRENT CONDITION 114.00, WIND DIRECTION 62.45, ROAD 159.00, SHALE SHAKER(S) RENTALS/SERVICES: Loader, 8.00, 8.00, 8.00, crew truck unit # R5053

TIME-HRS: OPER, MORN, DAY, EVE, TOTAL. 19.25, 0.50, 0.25, 0.25, 1.00, 0.25, 2.00, 0.25, 2.00, 0.50, 2.00

SHALE SHAKER(S) RENTALS/SERVICES: Loader, 8.00, 8.00, 8.00, crew truck unit # R5053. RIG MANAGER Dave Pietrzykowski, PROVINCE Yukon, CAMP YES, RIG SAFETY DAYS: 282.00

BIT RECORD: 1 bit, 0.25 BIT NO. 8, 1 dir tools, 31.05 SIZE, 222, 1 shock sub, 3.18 IADC CODE 6 1 7, 4 d.c., 36.85 MFG. read, 1 jars, 4.65 TYPE TD61A, 9 d.c., 81.02 SERIAL NO. JL4478, 9 hwdp, 81.71 JETS. b.h.a. 238.71, DEPTH OUT (m) 734.00, DEPTH IN (m) 118.00, TOTAL METERS DRILLED (m) 36.00, TOTAL HOURS RUN 3.28

MUD RECORD: MUD TYPE WATER BASED, OIL BASED, TIME 02:00, 04:00, 06:00, DENSITY 1340, 1360, 1360, FLUVEL VIS (cP) 72, 70, 70, W.L. (cm3) 6.50, 6.50, 6.50, pH 10.7, 10.8, 10.8, calcium 30, 30, 30

METERS DRILLED: FROM 825.00 TO 852.00, TO 25-35, 15-16, TIME LOG: 0:00, 1:15, 1:25, 2, 1:15, 1:30, 0:25, 7, 1:30, 7:45, 6:25, 2, 7:45, 8:00, 0:25, 10, 11000, 152, 123, 152, REDUCED PUMP SPEED: 3500 @ 65 @ 829.00, DEVIATION SURVEY: DEPTH (m) 813.72, DEVIATION (o) 1.7, DIRECTION 356.30, 823.33, 1.7, 355.40

MORNING TOUR 0:00 TO 8:00, CREW: Toolpush RYAN HILDENBRAND, Driller Rob Baller, Derrickman Stewart Surridge, Motorman Dave Martel, Floorman CAM DEVRIES, Floorman Riley Treen, Leaseman Stephen Sorenson

BIT RECORD: 1 bit, 0.25 BIT NO. 8, 1 dir tools, 31.05 SIZE, 222, 1 shock sub, 3.18 IADC CODE 6 1 7, 4 d.c., 36.85 MFG. read, 1 jars, 4.65 TYPE TD61A, 9 d.c., 81.02 SERIAL NO. JL4478, 9 hwdp, 81.71 JETS. b.h.a. 238.71, DEPTH OUT (m) 734.00, DEPTH IN (m) 143.00, TOTAL METERS DRILLED (m) 44.50, TOTAL HOURS RUN 3.21

MUD RECORD: MUD TYPE WATER BASED, OIL BASED, TIME 10:00, 14:00, 18:00, DENSITY 1350, 1350, 1350, FLUVEL VIS (cP) 67, 75, 76, W.L. (cm3) 7.00, 7.50, 7.50, pH 10.9, 10.8, 10.8, calcium 30, 30, 30

METERS DRILLED: FROM 852.00 TO 877.00, TO 25-35, 15-16, TIME LOG: 8:00, 8:15, 0:25, 7, 8:15, 8:45, 0:50, 5, 8:45, 9:00, 0:25, 21, 9:00, 17:30, 8:50, 2, 17:30, 19:30, 2:00, 22, 11000, 152, 123, 152, REDUCED PUMP SPEED: 3210 @ 58 @ 848.00, DEVIATION SURVEY: DEPTH (m) 832.50, DEVIATION (o) 1.6, DIRECTION 354.60, 841.70, 1.5, 355.40, 850.93, 1.4, 354.40, 860.36, 1.5, 354.00

DAY TOUR 8:00 TO 20:00, CREW: Rig Manager Dave Pietrzykowski, Driller Dwayne Ameson, Derrickman Mason Paas, Motorman Curtis Tucker, Floorman Cody Good, Floorman Brad Stensrud, Leaseman dino plescia

BIT RECORD: 1 bit, 0.25 BIT NO. 8, 1 dir tools, 31.05 SIZE, 222, 1 shock sub, 3.18 IADC CODE 6 1 7, 4 d.c., 36.85 MFG. read, 1 jars, 4.65 TYPE TD61A, 9 d.c., 81.02 SERIAL NO. JL4478, 9 hwdp, 81.71 JETS. b.h.a. 238.71, DEPTH OUT (m) 889.00, DEPTH IN (m) 734.00, TOTAL METERS DRILLED (m) 155.00, TOTAL HOURS RUN 47.00

MUD RECORD: MUD TYPE WATER BASED, OIL BASED, TIME 20:00, 22:00, 00:00, DENSITY 1350, 1360, 1360, FLUVEL VIS (cP) 77, 70, 73, W.L. (cm3) 7.00, 7.00, 7.00, pH 11.0, 11.0, 11.2

METERS DRILLED: FROM 877.00 TO 889.00, TO 30-40, 15-16, TIME LOG: 20:00, 20:15, 0:25, 21, 20:15, 22:00, 1:75, 2, 22:00, 22:15, 0:25, 7, 22:15, 23:45, 1:50, 2, 23:45, 24:00, 0:25, 10, 11000, 152, 123, 152, REDUCED PUMP SPEED: 3700 @ 67 @ 886.00, DEVIATION SURVEY: DEPTH (m) 870.07, DEVIATION (o) 1.4, DIRECTION 354.10

EVENING TOUR 20:00 TO 24:00, CREW: Toolpush RYAN HILDENBRAND, Driller Rob Baller, Derrickman Stewart Surridge, Motorman Dave Martel, Floorman CAM DEVRIES, Floorman Riley Treen, Leaseman Stephen Sorenson





Chimo Equipment  
A Varco Company

Based on the CAODC ETS file standard

SPUD RIG RELEASE JOB NO. 136 AFE 5270083

LICENCE NO. 11120 WELL NAME AND NO. Eagle Plains K-58

OPERATOR Devon Canada Ltd. CONTRACTOR Ensign Drilling Inc.

SURFACE LOCATION 60° 07' 34.8" UNIQUE ID: 300K-58 66° 07' 136° 55"

SIGNATURE OF OPERATORS REPRESENTATIVE John Williams SIGNATURE OF CONTRACTORS REPRESENTATIVE Dave Pietrzykowski

DAILY CHECKS (1) Daily Walk Around Inspection (2) Deleted Inspection/Weekly Lining checked (3) VES Signs Posted (if required) (4) Well License & Sticks Diagram Posted (5) Flare Line Staked (6) BOP Drills Performed (7) Visually inspect BOP's Flarelines & Degasser Lines (8) Rig Site Health and Safety Meeting (concurrent/weekly) (9) C.A.D.C. Rig Safety Inspection Checklist (containing/weekly) (10) HSE Inspection Before Raising or Lowering (11) Crown Saver Checked (12) Motor K&B Checked

DATE 19-Mar-2005 LAST CASING TUBING OR LINER FUEL @ 8:00 RIG 116 BOILER 153

TEMPERATURE 114.00 DCOP SIZE (mm) 29.77 LINEAR MASS (kg/m) 63.50 GRADE H.W. 73.00 TOOL JT O.D. (mm) 158.00 THREAD TYPE 4-1/2 XH NO. OF JOINTS 145 PUMP TYPE PZ-8 PUMP MANUFACTURER Gardner Denver STROKE LTH. (mm) 203

CURRENT CONDITION 114.00 WIND DIRECTION 114.00 ROAD 159.00

SHALE SHAKER(S) RENTALS/SERVICES

NO. 1 TYPE NEW Loader

SCREENS CHANGED YES NO crew truck unit # R5053

TOP 175 n TOP 140 U

MIDDLE MIDDLE

BOTTOM 175 N BOTTOM 140 N

TIME - HRS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
MORN		3.25																								
DAY		11.25																								
EVE		3.25																								
TOTAL		17.75																								

NO.	DATE	TIME	FROM	TO	DEPTH (m)	DEVIATION (m)	DIRECTION	REMARKS
1	19-Mar-2005	08:00	767.00	775.00	D	25-35	15-16	Rig Service FUNCTION ANNULAR 7 SEC
2	19-Mar-2005	08:15	767.00	775.00	D	25-35	15-16	PUT SHAKER BACK TOGETHER
3	19-Mar-2005	08:30	767.00	775.00	D	25-35	15-16	FLOW CHK RH
4	19-Mar-2005	08:45	767.00	775.00	D	25-35	15-16	Condition Mud & Circ. BTMS UP
5	19-Mar-2005	09:00	767.00	775.00	D	25-35	15-16	CHANGE SHAKER SCREENS
6	19-Mar-2005	09:15	767.00	775.00	D	25-35	15-16	Drill Actual F / 767-775
7	19-Mar-2005	09:30	767.00	775.00	D	25-35	15-16	Deviation Survey

WELL TYPE vertical RE-ENTRY YES NO

KB TO GROUND ELEV. 5.00

WELL NAME & No. Eagle Plains K-58 DATE 19-Mar-2005

OPERATOR Devon Canada Ltd. CONTRACTOR Ensign Drilling Inc.

RIG MANAGER Dave Pietrzykowski RIG NO. 55

PROVINCE Yukon CAMP YES NO RIG SAFETY DAYS: 281.00

NO.	DATE	TIME	FROM	TO	DEPTH (m)	DEVIATION (m)	DIRECTION	REMARKS
1	19-Mar-2005	08:00	767.00	775.00	D	25-35	15-16	Rig Service FUNCTION ANNULAR 7 SEC
2	19-Mar-2005	08:15	767.00	775.00	D	25-35	15-16	PUT SHAKER BACK TOGETHER
3	19-Mar-2005	08:30	767.00	775.00	D	25-35	15-16	FLOW CHK RH
4	19-Mar-2005	08:45	767.00	775.00	D	25-35	15-16	Condition Mud & Circ. BTMS UP
5	19-Mar-2005	09:00	767.00	775.00	D	25-35	15-16	CHANGE SHAKER SCREENS
6	19-Mar-2005	09:15	767.00	775.00	D	25-35	15-16	Drill Actual F / 767-775
7	19-Mar-2005	09:30	767.00	775.00	D	25-35	15-16	Deviation Survey

NO.	DATE	TIME	FROM	TO	DEPTH (m)	DEVIATION (m)	DIRECTION	REMARKS
1	19-Mar-2005	08:00	767.00	775.00	D	25-35	15-16	Rig Service FUNCTION ANNULAR 7 SEC
2	19-Mar-2005	08:15	767.00	775.00	D	25-35	15-16	PUT SHAKER BACK TOGETHER
3	19-Mar-2005	08:30	767.00	775.00	D	25-35	15-16	FLOW CHK RH
4	19-Mar-2005	08:45	767.00	775.00	D	25-35	15-16	Condition Mud & Circ. BTMS UP
5	19-Mar-2005	09:00	767.00	775.00	D	25-35	15-16	CHANGE SHAKER SCREENS
6	19-Mar-2005	09:15	767.00	775.00	D	25-35	15-16	Drill Actual F / 767-775
7	19-Mar-2005	09:30	767.00	775.00	D	25-35	15-16	Deviation Survey

CREW	SOC. INS. NO.	NAME	HRS	INJURIES
Toolpush		RYAN HILDENBRAND	0.50	RH
Driller		Rob Baller	8.00	RB
Derrickman		Stewart Surridge	8.00	SS
Motorman		Dave Martel	8.00	DM
Floorman		CAM DEVRIES	8.00	CD
Floorman		Riley Treen	8.00	RT
Leaseman		Stephen Sorenson	8.00	SS

NO.	DATE	TIME	FROM	TO	DEPTH (m)	DEVIATION (m)	DIRECTION	REMARKS
1	19-Mar-2005	08:00	767.00	775.00	D	25-35	15-16	Rig Service FUNCTION ANNULAR 7 SEC
2	19-Mar-2005	08:15	767.00	775.00	D	25-35	15-16	PUT SHAKER BACK TOGETHER
3	19-Mar-2005	08:30	767.00	775.00	D	25-35	15-16	FLOW CHK RH
4	19-Mar-2005	08:45	767.00	775.00	D	25-35	15-16	Condition Mud & Circ. BTMS UP
5	19-Mar-2005	09:00	767.00	775.00	D	25-35	15-16	CHANGE SHAKER SCREENS
6	19-Mar-2005	09:15	767.00	775.00	D	25-35	15-16	Drill Actual F / 767-775
7	19-Mar-2005	09:30	767.00	775.00	D	25-35	15-16	Deviation Survey

NO.	DATE	TIME	FROM	TO	DEPTH (m)	DEVIATION (m)	DIRECTION	REMARKS
1	19-Mar-2005	08:00	767.00	775.00	D	25-35	15-16	Rig Service FUNCTION ANNULAR 7 SEC
2	19-Mar-2005	08:15	767.00	775.00	D	25-35	15-16	PUT SHAKER BACK TOGETHER
3	19-Mar-2005	08:30	767.00	775.00	D	25-35	15-16	FLOW CHK RH
4	19-Mar-2005	08:45	767.00	775.00	D	25-35	15-16	Condition Mud & Circ. BTMS UP
5	19-Mar-2005	09:00	767.00	775.00	D	25-35	15-16	CHANGE SHAKER SCREENS
6	19-Mar-2005	09:15	767.00	775.00	D	25-35	15-16	Drill Actual F / 767-775
7	19-Mar-2005	09:30	767.00	775.00	D	25-35	15-16	Deviation Survey

CREW	SOC. INS. NO.	NAME	HRS	INJURIES
Rig Manager		Dave Pietrzykowski	1.00	DP
Driller		Dwayne Arneson	12.00	DA
Derrickman		Mason Paas	12.00	MP
Motorman		Curtis Tucker	12.00	CT
Floorman		Cody Good	12.00	CG
Floorman		Brad Stensrud	12.00	BS
Leaseman		dino plescia	12.00	dp

NO.	DATE	TIME	FROM	TO	DEPTH (m)	DEVIATION (m)	DIRECTION	REMARKS
1	19-Mar-2005	08:00	767.00	775.00	D	25-35	15-16	Rig Service FUNCTION ANNULAR 7 SEC
2	19-Mar-2005	08:15	767.00	775.00	D	25-35	15-16	PUT SHAKER BACK TOGETHER
3	19-Mar-2005	08:30	767.00	775.00	D	25-35	15-16	FLOW CHK RH
4	19-Mar-2005	08:45	767.00	775.00	D	25-35	15-16	Condition Mud & Circ. BTMS UP
5	19-Mar-2005	09:00	767.00	775.00	D	25-35	15-16	CHANGE SHAKER SCREENS
6	19-Mar-2005	09:15	767.00	775.00	D	25-35	15-16	Drill Actual F / 767-775
7	19-Mar-2005	09:30	767.00	775.00	D	25-35	15-16	Deviation Survey

NO.	DATE	TIME	FROM	TO	DEPTH (m)	DEVIATION (m)	DIRECTION	REMARKS
1	19-Mar-2005	08:00	767.00	775.00	D	25-35	15-16	Rig Service FUNCTION ANNULAR 7 SEC
2	19-Mar-2005	08:15	767.00	775.00	D	25-35	15-16	PUT SHAKER BACK TOGETHER
3	19-Mar-2005	08:30	767.00	775.00	D	25-35	15-16	FLOW CHK RH
4	19-Mar-2005	08:45	767.00	775.00	D	25-35	15-16	Condition Mud & Circ. BTMS UP
5	19-Mar-2005	09:00	767.00	775.00	D	25-35	15-16	CHANGE SHAKER SCREENS
6	19-Mar-2005	09:15	767.00	775.00	D	25-35	15-16	Drill Actual F / 767-775
7	19-Mar-2005	09:30	767.00	775.00	D	25-35	15-16	Deviation Survey

CREW	SOC. INS. NO.	NAME	HRS	INJURIES
Toolpush		RYAN HILDENBRAND	0.50	RH
Driller		Rob Baller	4.00	RB
Derrickman		Stewart Surridge	4.00	SS
Motorman		Dave Martel	4.00	DM
Floorman		CAM DEVRIES	4.00	CD
Floorman		Riley Treen	4.00	RT
Leaseman		Stephen Sorenson	4.00	SS



Chimo Equipment  
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Based on the CAODC ETS file standard

SPUD	RIG RELEASE	JOB NO.	AFE	5270083
LICENSE NO. 11120	WELL NAME AND NO. Eagle Plains K-58	CONTRACTOR Ensign Drilling Inc.	UNIQUE ID: 300/K-58 66*07 136*55	SIGNATURE OF CONTRACTORS REPRESENTATIVE Dave Pietrzykowski
OPERATOR Devon Canada Ltd.	SURFACE LOCATION 60° 07' 34.8"	SIGNATURE OF OPERATORS REPRESENTATIVE John Williams	DAILY CHECKS (1) Daily Walk Around Inspection (2) Detailed Inspection Weekly (using checklists) (3) VES Signs Placed (if required) (4) Well Log and S. Dick Diagram Placed (5) Fire Line Staked (6) SOP Desk Performed (7) Visually Inspect BOP's Flanges & Degasser Lines (8) Rig Site Health and Safety Meeting (on a regular basis) (9) C.A.O.D.C. Rig Safety Inspection Checklist (on a regular basis) (10) Well Inspection Safety Meeting (on a regular basis) (11) Crown Saver Checked (12) Motor Kibb Checked	
DATE 18-Mar-2005		LAST CASING TUBING OR LINER FUEL @ 8:00		RIG 155 BOILER 188
WEATHER TEMPERATURE CURRENT CONDITION WIND DIRECTION ROAD		DCDP SIZE (mm) 114.00 LINEAR MASS (kg/m) 29.77 GRADE E-75 M.M. ID (mm) 83.50 TOOL JOINT O.D. (mm) 158.00 THREAD TYPE 4-1/2 XH NO. OF JOINTS 145 PUMP TYPE PZ-8 PUMP MANUFACTURER Gardner Denver STROKE LTR (mm) 203		O.D. (mm) 244.5 M.M. ID (mm) 226.5 kg/m 53.58 MAKE NUSCO GRADE J-55 NO. OF JOINTS 28 TOTAL WEL LENGTH 355.83 KB TO CSG HEAD (m) 4.67 BET AT (m) 360.50

TIME - HRS	CODE	NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
MORN	OPN	5.00																								
DAY		3.25																								
EVE																										
TOTAL		8.25																								

REPAIR SHAKER		1.50																								
SCREENS CHANGED		8.00																								
Crew truck unit # R5053		8.00																								
MIDDLE		4.00																								
BOTTOM		24.00																								

WELL TYPE vertical	RE-ENTRY <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	KB TO GROUND ELEV. 5.00
WELL NAME & No. Eagle Plains K-58		DATE 18-Mar-2005
OPERATOR Devon Canada Ltd.		CONTRACTOR Ensign Drilling Inc.
RIG MANAGER Dave Pietrzykowski		RIG NO. 55
PROVINCE Yukon		CAMP <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
		RIG SAFETY DAYS 280.00

BIT RECORD		MUD RECORD	
1 bit	0.25 BIT NO. 8	MUD TYPE <input checked="" type="checkbox"/> WATER BASED <input type="checkbox"/> OIL BASED	TIME 02:00 04:00 06:00
1 dir tools	31.05 SIZE 222	DENSITY (kg/m <sup>3</sup> )	1300 1290
1 shock sub	3.18 IADC CODE 6 1 7	FUNNEL VIS. (SP/L)	73 68
4 d.c.	36.85 MFG. read	W.L. (cm3)	6.50 7.00
1 jars	4.65 TYPE TD61A	pH	10.7 10.6
9 d.c.	81.02 SERIAL NO. JL4478		
9 hwdp	81.71 JETS 14.3 14.3 14.3		
DEPTH OUT (m)		MUD MATERIAL ADDED	
b.h.a. 238.71		SOLIDS CONTROL	
DEPTH IN (m)		PRODUCT AMOUNT x UNIT	
734.00		Barite 82 SK	
TOTAL METERS DRILLED (m)		HOURS RUN	
24.00		2.53	
TOTAL HOURS RUN		HOURS RUN	
9.50		2.53	
CUTTING STRUCTURE		HOURS RUN	
27 D.P. STANDS 512.46		HOURS RUN	
D.P. SINGLES 9.70		HOURS RUN	
KELLYDOWN 6.83		HOURS RUN	
TOTAL 758.00		HOURS RUN	
HOLE DRAG 0-1 UP 1-0 DOWN		HOURS RUN	
WT. OF DC 16.00		HOURS RUN	
WT. OF STRONG 34.00		HOURS RUN	
FILL ON BOTTOM (m)		HOURS RUN	

METERS DRILLED		TIME LOG		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	
FROM	TO	ROTARY R.P.M.	W.P. ON (LBS)	From	To
745.00	758.00	D 25-35	15-16	0:00	1:30
				1:30	2:30
				2:30	2:45
				2:45	7:45
				7:45	8:00
				8:00	0:25
				0:25	10
REDUCED PUMP SPEED					
3500 @ 66		753.00			
DEPTH (m)		DEVIATION (°)		DIRECTION	
738.00		3.1		29.40	
HOLE FILL ACT-1.57 CAL-12.60 DIFF-03					
NOTES					
DWA RB FUNCTION CROWN SAVER CHK BRAKES & LINKAGE REV JSA TRIPPING BLOW BLOWER DOWN 2 X 1/2 M3					
DRILLER SIGNATURE		ROTOR & PUMP		OPERATOR FUEL	
Rob Bailor		8.00 11.0 400		34.00 TRIPPING 1971	

MORNING TOUR		DAY TOUR		EVENING TOUR	
CREW	SOC. INS. NO.	NAME	HRS	INJURIES	YES NO
Toolpush		RYAN HILDENBRAND	0.50	RH	<input type="checkbox"/> <input checked="" type="checkbox"/>
Driller		Rob Bailor	8.00	RB	<input type="checkbox"/> <input checked="" type="checkbox"/>
Derrickman		Stewart Surridge	8.00	SS	<input type="checkbox"/> <input checked="" type="checkbox"/>
Motorman		Dave Martel	8.00	DM	<input type="checkbox"/> <input checked="" type="checkbox"/>
Floorman		CAM DEVRIES	8.00	CD	<input type="checkbox"/> <input checked="" type="checkbox"/>
Floorman		Riley Treen	8.00	RT	<input type="checkbox"/> <input checked="" type="checkbox"/>
Leaseman		Stephen Sorenson	8.00	SS	<input type="checkbox"/> <input checked="" type="checkbox"/>

BIT RECORD		MUD RECORD	
1 bit	0.25 BIT NO. 8	MUD TYPE <input checked="" type="checkbox"/> WATER BASED <input type="checkbox"/> OIL BASED	TIME 10:00
1 dir tools	31.05 SIZE 222	DENSITY (kg/m <sup>3</sup> )	1320
1 shock sub	3.18 IADC CODE 6 1 7	FUNNEL VIS. (SP/L)	71
4 d.c.	36.85 MFG. read	W.L. (cm3)	7.00
1 jars	4.65 TYPE TD61A	pH	10.7
9 d.c.	81.02 SERIAL NO. JL4478		
9 hwdp	81.71 JETS 14.3 14.3 14.3		
DEPTH OUT (m)		MUD MATERIAL ADDED	
b.h.a. 238.71		SOLIDS CONTROL	
DEPTH IN (m)		PRODUCT AMOUNT x UNIT	
734.00		Barite 39	
TOTAL METERS DRILLED (m)		HOURS RUN	
33.00		2.59	
TOTAL HOURS RUN		HOURS RUN	
12.75		2.59	
CUTTING STRUCTURE		HOURS RUN	
27 D.P. STANDS 512.46		HOURS RUN	
D.P. SINGLES 9.70		HOURS RUN	
KELLYDOWN 6.13		HOURS RUN	
TOTAL 767.00		HOURS RUN	
HOLE DRAG 1 u 1 d		HOURS RUN	
WT. OF DC 16.00		HOURS RUN	
WT. OF STRONG 34.00		HOURS RUN	
FILL ON BOTTOM (m)		HOURS RUN	

METERS DRILLED		TIME LOG		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	
FROM	TO	ROTARY R.P.M.	W.P. ON (LBS)	From	To
758.00	767.00	d 30	16	8:00	8:15
				8:15	8:45
				8:45	12:00
				12:00	13:30
				13:30	14:15
				14:15	20:00
				20:00	5:75
				5:75	8
REDUCED PUMP SPEED					
2768 @ 58		763.00			
DEPTH (m)		DEVIATION (°)		DIRECTION	
746.98		2.5		29.40	
NOTES					
d.w.a. inspect brake pin & linkage, fct. crown saver, blow boiler 3x, check flares & degasser lines.					
DRILLER SIGNATURE		ROTOR & PUMP		OPERATOR FUEL	
Dwayne Ameson		12.00 11.0 400		34.00 lock out 1865	

DAY TOUR		EVENING TOUR	
CREW	SOC. INS. NO.	NAME	HRS
Rig Manager		Dave Pietrzykowski	1.00
Driller		Dwayne Ameson	12.00
Derrickman		Mason Paas	12.00
Motorman		Curtis Tucker	12.00
Floorman		Cody Good	12.00
Floorman		Brad Stensrud	12.00
Leaseman		dino plescia	12.00

BIT RECORD		MUD RECORD	
1 bit	0.25 BIT NO. 8	MUD TYPE <input checked="" type="checkbox"/> WATER BASED <input type="checkbox"/> OIL BASED	TIME
1 dir tools	31.05 SIZE 222	DENSITY (kg/m <sup>3</sup> )	
1 shock sub	3.18 IADC CODE 6 1 7	FUNNEL VIS. (SP/L)	
4 d.c.	36.85 MFG. read	W.L. (cm3)	
1 jars	4.65 TYPE TD61A	pH	
9 d.c.	81.02 SERIAL NO. JL4478		
9 hwdp	81.71 JETS 14.3 14.3 14.3		
DEPTH OUT (m)		MUD MATERIAL ADDED	
b.h.a. 238.71		SOLIDS CONTROL	
DEPTH IN (m)		PRODUCT AMOUNT x UNIT	
734.00			
TOTAL METERS DRILLED (m)		HOURS RUN	
33.00			
TOTAL HOURS RUN		HOURS RUN	
12.75			
CUTTING STRUCTURE		HOURS RUN	
27 D.P. STANDS 512.46		HOURS RUN	
D.P. SINGLES 9.70		HOURS RUN	
KELLYDOWN 6.13		HOURS RUN	
TOTAL 767.00		HOURS RUN	
HOLE DRAG		HOURS RUN	
WT. OF DC 16.00		HOURS RUN	
WT. OF STRONG 34.00		HOURS RUN	
FILL ON BOTTOM (m)		HOURS RUN	

METERS DRILLED		TIME LOG		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	
FROM	TO	ROTARY R.P.M.	W.P. ON (LBS)	From	To
767.00				20:00	20:15
				20:15	20:30
				20:30	24:00
				24:00	3:50
				3:50	8
REDUCED PUMP SPEED					
DEPTH (m)		DEVIATION (°)		DIRECTION	
NOTES					
DWA RB BLOW BLOWER DOWN 1 X 1/4 M3 REV JSA WORKING ABOVE 3M					
DRILLER SIGNATURE		ROTOR & PUMP		OPERATOR FUEL	
Rob Bailor		4.00 11.0 400		WORKING ABOVE 3M 1865	

EVENING TOUR		MORNING TOUR	
CREW	SOC. INS. NO.	NAME	HRS
Toolpush		RYAN HILDENBRAND	0.50
Driller		Rob Bailor	4.00
Derrickman		Stewart Surridge	4.00
Motorman		Dave Martel	4.00
Floorman		CAM DEVRIES	4.00
Floorman		Riley Treen	4.00
Leaseman		Stephen Sorenson	4.00













Chimo Equipment  
A Varco Company

Based on the CAODC ETS file standard

OPUD: RIG RELEASE: JOB NO. 136 AFE 5270083

LICENCE NO. 11120 WELL NAME AND NO. Eagle Plains K-58

OPERATOR: Devon Canada Ltd. CONTRACTOR: Ensign Drilling Inc.

SURFACE LOCATION: 60° 07' 34.8" N  
SIGNATURE OF OPERATORS REPRESENTATIVE: John Williams  
SIGNATURE OF CONTRACTORS REPRESENTATIVE: Dave Pietrzykowski

- DAILY CHECKS
- (1) Daily Walk Around Inspection
  - (2) Detailed Inspection Weekly (using checklist)
  - (3) HSE Sign Posting (if required)
  - (4) Well License & Stick Diagram Posted
  - (5) Flow Line Banded
  - (6) BOP Drills Performed
  - (7) Visually Inspect BOP & Firelines & Degasser Lines
  - (8) Rig Site Health and Safety Meeting (monthly/weekly)
  - (9) C & D O.C. Rig Safety Inspection Checklist (monthly/weekly)
  - (10) Used Inspection Before Raising or Lowering
  - (11) Crown Saver Checked
  - (12) Motor Kils Checked

DATE	13-Mar-2005	LAST CASING TUBING OR LINER		O.D. (mm)	244.5	WELL ID (mm)	226.5	WGT (kgm)	53.58	MAKE	NUSCO	GRADE	J-55	NO. OF JOINTS	28	TOTAL WEL LENGTH (m)	355.83	KG TO CSG HEAD (mm)	4.67	SET AT (m)	360.50
RIG NO.	55	FUEL @ 8:00																			
RIG	135	BOILER	190																		
TEMPERATURE		DCOP SIZE (mm)	114.00	LINEAR MASS (kg/m)	29.77	GRADE	E-75	MAX ID (mm)	63.50	TOOL JT O.D. (mm)	158.00	THREAD TYPE	4-1/2 XH	NO. OF JOINTS	145	PUMP TYPE	PZ-8	PUMP MANUFACTURER	Gardner Denver	STROKE LTR (mm)	203
CURRENT CONDITION																					
WIND DIRECTION			114.00		62.45		H.W.		73.03		158.00		4-1/2 XH		10		PZ-7		Gardner Denver		178
ROAD			159.00		130.30		D.C.		84.00		159.00		4-1/2 XH		14						

TIME - HRS	CODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
MORN	OPER																											
DAY	OPER																											
EVE	OPER																											
TOTAL																												

NO.	TYPE	NEW	Loader	MORN	DAY	EVE
8.00	SCREENS CHANGED	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8.00	8.00	8.00
12.00	TOP	<input type="checkbox"/>	<input type="checkbox"/>	12.00	175 n	
4.00	MIDDLE	<input type="checkbox"/>	<input type="checkbox"/>	4.00	MIDDLE	
24.00	BOTTOM	<input type="checkbox"/>	<input type="checkbox"/>	24.00	175n	BOTTOM

WELL TYPE: vertical

RE-ENTRY:  YES  NO

KG TO GROUND ELEV.: 5.00

WELL NAME & No.: Eagle Plains K-58

DATE: 13-Mar-2005

OPERATOR: Devon Canada Ltd. CONTRACTOR: Ensign Drilling Inc.

RIG MANAGER: Dave Pietrzykowski RIG NO.: 55

PROVINCE: Yukon CAMP:  YES  NO RIG SAFETY DAYS: 275.00

NO.	BIT	O.D. (mm)	LENGTH (m)	BIT NO.	7	MUD TYPE	WATER BASED	TIME	04:00	06:00
1	bit	222	0.27	7			<input checked="" type="checkbox"/>			
1	bit sub	166	0.92	222			<input type="checkbox"/>			
4	d.c.	159	36.85	IADC CODE	547				1210	1220
8	hwdp	114	72.54	MFG	hughes				60	62
				TYPE	HR-S38C				7.00	7.00
				SERIAL NO.	6021470				10.5	10.7
				JETS	12.7 12.7 12.7					
				DEPTH OUT (m)						
				DEPTH IN (m)	527.00					
				TOTAL METERS DRILLED (m)						
				TOTAL HOURS RUN						
14	D.P.	STANDS	246.63	CUTTING STRUCTURE						
	D.P.	SINGLES								
				KELLYDOWN						
				TOTAL	357.21					
				WT. OF DC						
				WT. OF STRNG						

NO.	FROM	TO	TIME LOG	0:00	0:15	0:25	7
				0:00	0:15	0:25	7
				0:15	2:15	2:00	6
				2:15	8:00	5:75	22

NO.	FROM	TO	TIME LOG	8:00	8:15	0:25	21
				8:00	8:15	0:25	21
				8:15	8:30	0:25	7
				8:30	13:30	5:00	22
				13:30	13:45	0:25	21
				13:45	20:00	6:25	22

CREW	SOC. INS. NO.	NAME	HRS	YES	NO
Rig Manager		Ross Estell	0.50	RE	<input type="checkbox"/>
Driller		Joe Tedford	8.00	JT	<input type="checkbox"/>
Derrickman		Stewart Surridge	8.00	SS	<input type="checkbox"/>
Motorman		Peter Sunshine	8.00	PS	<input type="checkbox"/>
Floorman		Scott Arsenault	8.00	SA	<input type="checkbox"/>
Floorman		Dwain Roadhouse	8.00	DR	<input type="checkbox"/>
Leaseman		Stephen Sorenson	8.00	SS	<input type="checkbox"/>

NO.	BIT	O.D. (mm)	LENGTH (m)	BIT NO.	7	MUD TYPE	WATER BASED	TIME	10:00	14:00	18:00
				7			<input checked="" type="checkbox"/>				
				SIZE	222				10:00	14:00	18:00
				IADC CODE	5 4 7				1220	1220	1220
				MFG	hughes				63	63	63
				TYPE	HR-S38C				7.50	7.50	7.50
				SERIAL NO.	6021470				10.7	10.6	10.5
				JETS	12.7 12.7 12.7				30	30	30
				DEPTH OUT (m)							
				DEPTH IN (m)	527.00						
				TOTAL METERS DRILLED (m)							
				TOTAL HOURS RUN							
				WT. OF DC							
				WT. OF STRNG							

NO.	FROM	TO	TIME LOG	8:00	8:15	0:25	21
				8:00	8:15	0:25	21
				8:15	8:30	0:25	7
				8:30	13:30	5:00	22
				13:30	13:45	0:25	21
				13:45	20:00	6:25	22

NO.	FROM	TO	TIME LOG	12:00	11:0	400
				12:00	11:0	400

CREW	SOC. INS. NO.	NAME	HRS	YES	NO
Rig Manager		Dave Pietrzykowski	1.00	DP	<input type="checkbox"/>
Driller		Rob Baller	12.00	RB	<input type="checkbox"/>
Derrickman		Mason Paas	12.00	MP	<input type="checkbox"/>
Motorman		Dave Martel	12.00	DM	<input type="checkbox"/>
Floorman		Riley Treen	12.00	RT	<input type="checkbox"/>
Floorman		Troy Warawa	12.00	TW	<input type="checkbox"/>
Leaseman		dino plescia	12.00	dp	<input type="checkbox"/>

NO.	BIT	O.D. (mm)	LENGTH (m)	BIT NO.	7	MUD TYPE	WATER BASED	TIME	20:00	20:15	0:25	21
				7			<input checked="" type="checkbox"/>					
				SIZE	222				20:00	20:15	0:25	21
				IADC CODE	5 4 7				20:15	20:30	0:25	7
				MFG	hughes				20:30	21:15	0:75	22
				TYPE	HR-S38C				21:15	22:30	1:25	6
				SERIAL NO.	6021470							
				JETS	12.7 12.7 12.7				22:30	22:45	0:25	21
				DEPTH OUT (m)					22:45	24:00	1:25	20
				DEPTH IN (m)	527.00							
				TOTAL METERS DRILLED (m)								
				TOTAL HOURS RUN								
				WT. OF DC								
				WT. OF STRNG								

NO.	FROM	TO	TIME LOG	20:00	20:15	0:25	21
				20:00	20:15	0:25	21
				20:15	20:30	0:25	7
				20:30	21:15	0:75	22
				21:15	22:30	1:25	6
				22:30	22:45	0:25	21
				22:45	24:00	1:25	20

NO.	FROM	TO	TIME LOG	4:00	10.5	380
				4:00	10.5	380

CREW	SOC. INS. NO.	NAME	HRS	YES	NO
Rig Manager		Ross Estell	0.50	RE	<input type="checkbox"/>
Driller		Joe Tedford	4.00	JT	<input type="checkbox"/>
Derrickman		Stewart Surridge	4.00	SS	<input type="checkbox"/>
Motorman		Peter Sunshine	4.00	PS	<input type="checkbox"/>
Floorman		Scott Arsenault	4.00	SA	<input type="checkbox"/>
Floorman		Dwain Roadhouse	4.00	DR	<input type="checkbox"/>
Leaseman		Stephen Sorenson	4.00	SS	<input type="checkbox"/>

SPUD RIG RELEASE JOB NO. AFE 5270083  
 LICENSE NO. 11120 WELL NAME AND NO. Eagle Plains K-58  
 OPERATOR Devon Canada Ltd. CONTRACTOR Ensign Drilling Inc.  
 SURFACE LOCATION 60° 07' 34.8" N 136° 07' 136.55" W  
 SIGNATURE OF OPERATORS REPRESENTATIVE John Williams SIGNATURE OF CONTRACTORS REPRESENTATIVE Dave Pietrzykowski

- DAILY CHECKS  
 (1) Daily Walk Around Inspection  
 (2) Detailed Inspection Weekly (using checklist)  
 (3) HCS Signs Posted (if required)  
 (4) Well Control & Shut Down Diagrams Posted  
 (5) Flare Line Tested  
 (6) BOP Drills Performed  
 (7) Visually Inspect BOP & Flarewell & Degasser Lines  
 (8) Rig Site Health and Safety Meeting (announced/unannounced)  
 (9) C.A.O.D.C. Rig Safety Inspection Checklist (announced/unannounced)  
 (10) Ground Saver Checked  
 (11) Motor & K.H. Checked

DATE	12-Mar-2005	LAST CASING TUBING OR LINER	O.D. (mm)	244.5	226.5	53.50	NUSCO	J-55	28	355.83	4.67	360.60								
RIG NO.	55	FUEL @ 8:00	RIG	86	BOILER	108	TEMPERATURE	DCOP (mm)	114.00	LINEAR MASS (kg/m)	29.77	GRADE	E-75	63.50	158.00	4-1/2 XH	145	PZ-8	Gardner Denver	203
WEATHER	CURRENT CONDITION	114.00	WIND DIRECTION	114.00	62.45	H.W	73.03	158.00	4-1/2 XH	10	PZ-7	Gardner Denver	178							
ROAD	159.00	130.30	D.C.	64.00	159.00	4-1/2 XH	14													



Based on the CAODC ETS file standard

TIME HRS	OPER	MORN	DAY	EVE	TOTAL
	0.25		3.75	0.25	0.25
					0.25
					0.25
					0.50
					15.50
					3.50

SHALE SHAKER(S)	RENTALS/SERVICES	NO. 1 TYPE	NEW	Loader	8.00	8.00	8.00
SCREENS CHANGED	YES	NO					
TOP	175 ft	TOP					
MIDDLE		MIDDLE					
BOTTOM	175 ft	BOTTOM					

WELL TYPE vertical RE-ENTRY  YES  NO  
 KB TO GROUND ELEV. 5.00  
 WELL NAME: No. Eagle Plains K-58 DATE 12-Mar-2005  
 OPERATOR Devon Canada Ltd. CONTRACTOR Ensign Drilling Inc.  
 RIG MANAGER Dave Pietrzykowski RIG NO. 55  
 PROVINCE Yukon CAMP  YES  NO RIG SAFETY DAYS: 274.00

NO.	BIT	LENGTH	BIT NO.	MUD TYPE	WATER BASED	OR OIL BASED
1	bit	222	0.27	6		
1	bit sub	166	0.92	222		
8	d.c.	159	73.73	IADC CODE 517		
10	hwdp	114	91.07	MFG. REED		
				TYPE TD51X		
				SERIAL NO. LX54002		
				JETS		
				DEPTH OUT (m)		
				DEPTH IN (m)	527.00	
				TOTAL METERS DRILLED (m)		
				TOTAL HOURS RUN		
10	D.P.	STANDS	188.92	CUTTING STRUCTURE		
	D.P.	SINGLES				
				KELLYDOWN		
				TOTAL	354.91	
				WT. OF DC	8.00	
				WT. OF STRING	21.00	

NO.	BIT	LENGTH	BIT NO.	MUD TYPE	WATER BASED	OR OIL BASED
1	bit	222	0.27	6		
1	bit sub	166	0.92	222		
8	d.c.	159	73.73	IADC CODE 517		
10	hwdp	114	91.07	MFG. REED		
				TYPE TD51X		
				SERIAL NO. LX54002		
				JETS		
				DEPTH OUT (m)		
				DEPTH IN (m)	527.00	
				TOTAL METERS DRILLED (m)		
				TOTAL HOURS RUN		
10	D.P.	STANDS	188.92	CUTTING STRUCTURE		
	D.P.	SINGLES				
				KELLYDOWN		
				TOTAL	354.91	
				WT. OF DC	8.00	
				WT. OF STRING	21.00	

FROM	TO	TIME	REMARKS
0:00	0:15	0.25	7
0:15	8:00	7.75	22
8:00	10:5	10.5	390

CREW	SOC. INS. NO.	NAME	HRS	YES	NO
Rig Manager		Ross Estell	0.50	RE	<input checked="" type="checkbox"/>
Driller		Joe Tedford	8.00	JT	<input checked="" type="checkbox"/>
Derrickman		Stewart Surridge	8.00	SS	<input checked="" type="checkbox"/>
Motorman		Peter Sunshine	8.00	PS	<input checked="" type="checkbox"/>
Floorman		Scott Arsenaute	8.00	SA	<input checked="" type="checkbox"/>
Floorman		Dwain Roadhouse	8.00	DR	<input checked="" type="checkbox"/>
Leaseman		Stephen Sorenson	8.00	SS	<input checked="" type="checkbox"/>

NO.	BIT	LENGTH	BIT NO.	MUD TYPE	WATER BASED	OR OIL BASED
1	bit	222	0.27	6		
1	bit sub	166	0.92	222		
8	d.c.	159	73.73	IADC CODE 517		
10	hwdp	114	91.07	MFG. REED		
				TYPE TD51X		
				SERIAL NO. LX54002		
				JETS		
				DEPTH OUT (m)		
				DEPTH IN (m)	527.00	
				TOTAL METERS DRILLED (m)		
				TOTAL HOURS RUN		
10	D.P.	STANDS	188.92	CUTTING STRUCTURE		
	D.P.	SINGLES				
				KELLYDOWN		
				TOTAL	354.91	
				WT. OF DC	8.00	
				WT. OF STRING	21.00	

NO.	BIT	LENGTH	BIT NO.	MUD TYPE	WATER BASED	OR OIL BASED
1	bit	222	0.27	6		
1	bit sub	166	0.92	222		
8	d.c.	159	73.73	IADC CODE 517		
10	hwdp	114	91.07	MFG. REED		
				TYPE TD51X		
				SERIAL NO. LX54002		
				JETS		
				DEPTH OUT (m)		
				DEPTH IN (m)	527.00	
				TOTAL METERS DRILLED (m)		
				TOTAL HOURS RUN		
10	D.P.	STANDS	188.92	CUTTING STRUCTURE		
	D.P.	SINGLES				
				KELLYDOWN		
				TOTAL	354.91	
				WT. OF DC	8.00	
				WT. OF STRING	21.00	

FROM	TO	TIME	REMARKS
8:00	8:15	0.25	21
8:15	8:30	0.25	7
8:30	16:15	7.75	22
16:15	20:00	3.75	6
20:00	11.0	4.00	

CREW	SOC. INS. NO.	NAME	HRS	YES	NO
Rig Manager		Dave Pietrzykowski	1.00	DP	<input checked="" type="checkbox"/>
Driller		Rob Baier	12.00	RB	<input checked="" type="checkbox"/>
Derrickman		Mason Paas	12.00	MP	<input checked="" type="checkbox"/>
Motorman		Dave Martel	12.00	DM	<input checked="" type="checkbox"/>
Floorman		Riley Treen	12.00	RT	<input checked="" type="checkbox"/>
Floorman		Troy Warawa	12.00	TW	<input checked="" type="checkbox"/>
Leaseman		dino plescia	12.00	dp	<input checked="" type="checkbox"/>

NO.	BIT	LENGTH	BIT NO.	MUD TYPE	WATER BASED	OR OIL BASED
1	bit	222	0.27	7		
1	bit sub	166	0.92	222		
8	d.c.	159	73.73	IADC CODE 517		
10	hwdp	114	91.07	MFG. REED		
				TYPE TD51X		
				SERIAL NO. LX54002		
				JETS		
				DEPTH OUT (m)	527.00	
				DEPTH IN (m)	527.00	
				TOTAL METERS DRILLED (m)		
				TOTAL HOURS RUN		
10	D.P.	STANDS	188.92	CUTTING STRUCTURE		
	D.P.	SINGLES				
				KELLYDOWN		
				TOTAL	354.91	
				WT. OF DC	8.00	
				WT. OF STRING	21.00	

NO.	BIT	LENGTH	BIT NO.	MUD TYPE	WATER BASED	OR OIL BASED
1	bit	222	0.27	7		
1	bit sub	166	0.92	222		
8	d.c.	159	73.73	IADC CODE 517		
10	hwdp	114	91.07	MFG. REED		
				TYPE TD51X		
				SERIAL NO. LX54002		
				JETS		
				DEPTH OUT (m)	527.00	
				DEPTH IN (m)	527.00	
				TOTAL METERS DRILLED (m)		
				TOTAL HOURS RUN		
10	D.P.	STANDS	188.92	CUTTING STRUCTURE		
	D.P.	SINGLES				
				KELLYDOWN		
				TOTAL	354.91	
				WT. OF DC	8.00	
				WT. OF STRING	21.00	

FROM	TO	TIME	REMARKS
20:00	20:15	0.25	21
20:15	20:30	0.25	7
20:30	24:00	3.50	23
24:00	10.5	10.5	390

CREW	SOC. INS. NO.	NAME	HRS	YES	NO
Rig Manager		Ross Estell	0.50	RE	<input checked="" type="checkbox"/>
Driller		Joe Tedford	4.00	JT	<input checked="" type="checkbox"/>
Derrickman		Stewart Surridge	4.00	SS	<input checked="" type="checkbox"/>
Motorman		Peter Sunshine	4.00	PS	<input checked="" type="checkbox"/>
Floorman		Scott Arsenaute	4.00	SA	<input checked="" type="checkbox"/>
Floorman		Dwain Roadhouse	4.00	DR	<input checked="" type="checkbox"/>
Leaseman		Stephen Sorenson	4.00	SS	<input checked="" type="checkbox"/>







Chimo Equipment  
A Varco Company

Based on the CAODC ETS file standard

SPUD RIG RELEASE JOB NO. AFE 5270083

LICENCE NO. 11120 WELL NAME AND NO. Eagle Plains K-58

OPERATOR Devon Canada Ltd. CONTRACTOR Ensign Drilling Inc.

SURFACE LOCATION 60° 07' 34.8" N UNIQUE ID: 300/K-58 66° 07' 136° 55'

SIGNATURE OF OPERATORS REPRESENTATIVE John Williams SIGNATURE OF CONTRACTORS REPRESENTATIVE Dave Pietrzykowski

- DAILY CHECKS
- (1) Daily Walk Around Inspection
  - (2) Detailed Inspection Weekly (Using checklist)
  - (3) H2S Signs Posted (if required)
  - (4) Well Logs & Block Diagram Posted
  - (5) Flare Line Checked
  - (6) BOP Drills Performed
  - (7) Visually Inspect BOP & Flarelines & Degasser Lines
  - (8) C A O D C Rig Safety Inspection Checklist (monthly)
  - (9) Main Inspection Before Raising or Lowering
  - (10) Crown Block Checked
  - (11) Motor Kits Checked

DATE	10-Mar-2005	LAST CASING TUBING OR LINER	O.D. (mm)	MIN. ID. (mm)	WGT (kg/m)	GRADE	NO. OF JOINTS	TOTAL (m)	KB TO C&G HEAD (m)	SET AT (m)	
RIG NO.	55	FUEL @ 8:00	244.5	226.5	53.58	NUSCO	J-55	28	355.83	4.67	360.50
RIG	147	BOILER 181									
TEMPERATURE	DCOP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	THREAD TYPE	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH (mm)	
CURRENT CONDITION	114.00	29.77	E-75	63.50	158.00	4-1/2 XH	145	PZ-8	Gardner Denver	203	
WIND DIRECTION	114.00	62.45	H-W	73.03	158.00	4-1/2 XH	10	PZ-7	Gardner Denver	178	
ROAD	159.00	130.30	D.C.	64.00	159.00	4-1/2 XH	14				

CODE TO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
OPER MORN	7.75																									
DAY	11.00																									
EVE	3.50																									
TOTAL	22.25																									

NO.	TYPE	NEW	LOADER	MOON	DAY	EVE
8.00	SCREENS CHANGED	<input checked="" type="checkbox"/>	YES	8.00	8.00	8.00
12.00	TOP	175 n	TOP	8.00	8.00	8.00
4.00	MIDDLE	MIDDLE				
24.00	BOTTOM	175n	BOTTOM			

WELL TYPE vertical RE-ENTRY  YES  NO

KB TO GROUND ELEV. 5.00

WELL NAME & No. Eagle Plains K-58 DATE 10-Mar-2005

OPERATOR Devon Canada Ltd. CONTRACTOR Ensign Drilling Inc.

RIG MANAGER Dave Pietrzykowski RIG NO. 55

PROVINCE Yukon CAMP  YES  NO RIG SAFETY DAYS: 272.00

NO.	BIT	SIZE	WATER BASED	BIT NO.	5	MUD TYPE	TIME	02:00	04:00	06:00
1	Bit	200	0.27	5						
1	Bit Sub 4-1/2	158	0.92	SIZE	222					
5	Drill Collar	159	45.79	IADC CODE	4 4 7					
1	Jars	172	4.66	MFG.	reed					
5	Drill Collar	159	46.54	TYPE	TD44M					
10	H.W. Drill Pipe	114	91.07	SERIAL NO.	HY2303					

FROM	TO	SA - B	ROTARY	W.P. ON	TIME	0:00	0:15	0:25	7	REMARKS
494.00	502.00	D	125	5	0:00	0:15	0:25	7		Rig Service Fct annular 8 sec o/c
					0:15	8:00	7.75	2		Drill F/ 494 m to 502m

CREW	SOC. INS. NO.	NAME	HRS	INJURIES
Rig Manager		Ross Estell	0.50	RE <input type="checkbox"/>
Driller		Joe Tedford	8.00	JT <input type="checkbox"/>
Derrickman		Stewart Surridge	8.00	SS <input type="checkbox"/>
Motorman		Peter Sunshine	8.00	PS <input type="checkbox"/>
Floorman		Scott Arsenaull	8.00	SA <input type="checkbox"/>
Floorman		Dwain Roadhouse	8.00	DR <input type="checkbox"/>
Leaseman		Stephen Sorenson	8.00	SS <input type="checkbox"/>

NO.	BIT	SIZE	WATER BASED	BIT NO.	5	MUD TYPE	TIME	10:00	14:00	18:00
1	Bit	200	0.27	5						
1	Bit Sub 4-1/2	158	0.92	SIZE	222					
5	Drill Collar	159	45.79	IADC CODE	4 4 7					
1	Jars	172	4.66	MFG.	reed					
5	Drill Collar	159	46.54	TYPE	TD44M					
10	H.W. Drill Pipe	114	91.07	SERIAL NO.	HY2303					

FROM	TO	SA - B	ROTARY	W.P. ON	TIME	8:00	8:15	8:25	21	REMARKS
502.00	519.00	D	125	6	8:00	8:15	8:30	0.25	21	Safety Meeting
					8:15	8:30	0.25	7		Rig Service FUNCTION BPR 4 SEC
					8:30	19:30	11.00	2		Drill Actual 502-519
					19:30	20:00	0.50	10		CIR SURVEY @ 492 4 DEGREE

CREW	SOC. INS. NO.	NAME	HRS	INJURIES
Rig Manager		Dave Pietrzykowski	1.00	DP <input type="checkbox"/>
Driller		Rob Bailor	12.00	RB <input type="checkbox"/>
Derrickman		Mason Paas	12.00	MP <input type="checkbox"/>
Motorman		Dave Martel	12.00	DM <input type="checkbox"/>
Floorman		Riley Treen	12.00	RT <input type="checkbox"/>
Floorman		Troy Warawa	12.00	TW <input type="checkbox"/>
Leaseman		dino plescia	12.00	dp <input type="checkbox"/>

NO.	BIT	SIZE	WATER BASED	BIT NO.	5	MUD TYPE	TIME	20:00	22:00	00:00
1	Bit	200	0.27	5						
1	Bit Sub 4-1/2	158	0.92	SIZE	222					
5	Drill Collar	159	45.79	IADC CODE	4 4 7					
1	Jars	172	4.66	MFG.	reed					
5	Drill Collar	159	46.54	TYPE	TD44M					
10	H.W. Drill Pipe	114	91.07	SERIAL NO.	HY2303					

FROM	TO	SA - B	ROTARY	W.P. ON	TIME	20:00	20:15	20:25	21	REMARKS
519.00	526.00	d	110-120	6	20:00	20:15	20:30	0.25	21	Safety Meeting man down drill
					20:15	20:30	0.25	7		Rig Service fct annular 8 sec o/c.fct remote choke
					20:30	0:00	3.50	2		Drill F/519m-526m

CREW	SOC. INS. NO.	NAME	HRS	INJURIES
Rig Manager		Ross Estell	0.50	RE <input type="checkbox"/>
Driller		Joe Tedford	4.00	JT <input type="checkbox"/>
Derrickman		Stewart Surridge	4.00	SS <input type="checkbox"/>
Motorman		Peter Sunshine	4.00	PS <input type="checkbox"/>
Floorman		Scott Arsenaull	4.00	SA <input type="checkbox"/>
Floorman		Dwain Roadhouse	4.00	DR <input type="checkbox"/>
Leaseman		Stephen Sorenson	4.00	SS <input type="checkbox"/>









SPUD RIG RELEASE JOB NO. AFE  
 11120 WELL NAME AND NO. 136 5270083  
 Eagle Plains K-58

OPERATOR CONTRACTOR  
 Devon Canada Ltd. Ensign Drilling Inc.

SURFACE LOCATION  
 60° 07' 34.8"

SIGNATURE OF OPERATORS REPRESENTATIVE  
 John Williams

SIGNATURE OF CONTRACTORS REPRESENTATIVE  
 Dave Pietrzykowski

DAILY CHECKS  
 (1) Daily Walk Around Inspection  
 (2) Detailed Inspection Weekly (using checklist)  
 (3) H2S Signs Posted (if required)  
 (4) West Locones & Stock Checkers Posted  
 (5) Flare Line Status  
 (6) BOP Drills Performed  
 (7) Visually Inspect BOP & Pipelines & Degasser Lines  
 (8) Rig Site Health and Safety Meeting (once per month)  
 (9) C.A.O.D.C. Rig Safety Inspection Checklist (once per month)  
 (10) Visual Inspection Before Raising or Lowering  
 (11) Crown Saver Checked  
 (12) Master Key Checked

DATE 06-Mar-2005  
 RIG NO. 55  
 FUEL @ 8:00  
 155 BOILER 125

TEMPERATURE  
 CURRENT CONDITION 114.00  
 WIND DIRECTION 114.00  
 ROAD 159.00

SCOP SIZE 114.00  
 LINEAR MASS 29.77  
 GRADE E-75  
 MIN ID 63.50  
 TOOL JT O.D. 158.00  
 THREAD TYPE 4-1/2 XH  
 NO. OF JOINTS 145  
 PUMP TYPE PZ-8  
 PUMP MANUFACTURER Gardner Denver  
 STROKE LTH. (mm) 203

SHALE SHAKER(S)  
 NO. 1 TYPE NEW Loader  
 SCREENS CHANGED YES NO crew truck unit # R5053

RENTALS/SERVICES  
 MORNING 8.00  
 DAY 8.00  
 EVENING 8.00



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TIME HRS	OPER	START	STOP	REASON	REMARKS
MORNING		1.00	0.25		
DAY		3.25	1.80		
EVE		1.00	0.50		
TOTAL		1.00	3.25		

WELL TYPE	RE-ENTRY	KB TO GROUND ELEV.
Vertical	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	5.00

WELL NAME & NO. Eagle Plains K-58  
 OPERATOR Ensign Drilling Inc.  
 RIG NO. 55  
 PROVINCE Yukon  
 CAMP YES NO  
 RIG SAFETY DAYS: 268.00

NO.	BIT	LENGTH	BIT NO.	SIZE	MUD CODE	DENSITY	FUNNEL	W.L.	PH	JETS	DEPTH OUT	DEPTH IN	TOTAL METERS DRILLED	TOTAL HOURS RUN	PRODUCT	AMOUNT x UNIT	HOURS RUN	INITIAL	OVERFLOW	UNDERFLOW
1	bit	222	0.27	4		10.00	1130	8.0	9.0	12.7 12.7 12.7	362.00	362.00	10.00	11:00	Gel	85 sk				
1	bit sub	168	0.92	222		11.30	1150	8.0	9.0	12.7 12.7 12.7	362.00	362.00	10.00	11:00	Barite	42 sk				
10	6.5 d.c.	159	92.06	517		8.0	65	8.0	10.0	12.7 12.7 12.7	362.00	362.00	10.00	11:00	Soda Ash	3 sk				
10	hwdc	114	91.07	reed		8.0	65	8.0	10.0	12.7 12.7 12.7	362.00	362.00	10.00	11:00						

FROM	TO	DEPT	ROTARY	W.P.	TIME	REMARKS
243.00	319.00	r	50	4	0:00	0:15 0:25 7 Rig Service
					0:15	1:15 1:00 22 install wear bushing
					1:15	2:00 0:75 23 install annular saver rubber
					2:00	3:00 1:00 6 run in bha, tag cement @ 240m.
					3:00	3:45 0:75 24 lay down pipe in derrick - 5stds
					3:45	8:00 4:25 25 drill out cement 240m - 319 m.

NOTES  
 D.W.A. O.A. Checked crown saver, brakes pin and linkage. Slow bolt down 3x

CREW	SOC. INS. NO.	NAME	HRS	YES	NO
Rig Manager		Ryan Hildenbrand	0.50	RH	<input type="checkbox"/>
Driller		Dwayne Arneson	8.00	DA	<input checked="" type="checkbox"/>
Derrickman		Stewart Surridge	8.00	SS	<input checked="" type="checkbox"/>
Motorman		Curtis Tucker	8.00	CT	<input checked="" type="checkbox"/>
Floorman		cody good	8.00	cg	<input checked="" type="checkbox"/>
Floorman		Brad Stensrud	8.00	BS	<input checked="" type="checkbox"/>
Leaseman		stephen sorenson	8.00	ss	<input checked="" type="checkbox"/>

NO.	BIT	LENGTH	BIT NO.	SIZE	MUD CODE	DENSITY	FUNNEL	W.L.	PH	JETS	DEPTH OUT	DEPTH IN	TOTAL METERS DRILLED	TOTAL HOURS RUN	PRODUCT	AMOUNT x UNIT	HOURS RUN	INITIAL	OVERFLOW	UNDERFLOW
1	bit	222	0.27	4		10.00	1130	8.0	9.0	12.7 12.7 12.7	362.00	362.00	10.00	14:00	Gel	23				
1	bit sub	168	0.92	222		11.30	1150	8.0	9.0	12.7 12.7 12.7	362.00	362.00	10.00	14:00	Barite	230				
10	6.5 d.c.	159	92.06	517		8.0	65	8.0	10.0	12.7 12.7 12.7	362.00	362.00	10.00	14:00	Soda Ash	1				
10	hwdc	114	91.07	reed		8.0	65	8.0	10.0	12.7 12.7 12.7	362.00	362.00	10.00	14:00						

FROM	TO	DEPT	ROTARY	W.P.	TIME	REMARKS
					8:00	8:15 0:25 21 Safety Meeting reviewed Jsa's F-5 & F-6
					8:15	8:30 0:25 7 Rig Service fct annular 8 sec o/c, pipe rams 3 sec o/c
					8:30	10:30 2:00 25 drill out cmt f/319m-348m
					10:30	10:45 0:25 5 Condition Mud & Circ
					10:45	13:15 2:50 15 press test csg & accumulator fct test pressure drop 8300kpa, pre charge 6500kpa
					13:15	13:30 0:25 25 drill out cmt f/348m-356m
					13:30	16:30 3:00 5 displace hole to 1150 wt mud, clean tanks & condition mud
					16:30	18:15 1:75 26 jack rig
					18:15	18:30 0:25 21 BOP Drill (tripping)
					18:30	20:00 1:50 6 Trips p.o.o.h to pick up jars

NOTES  
 saw 3 check break pins & linkages, set crown saver, slow down bolt 3x. Reviewed Jsa's F-5 & F-6

CREW	SOC. INS. NO.	NAME	HRS	YES	NO
Rig Manager		Dave Pietrzykowski	1.00	DP	<input checked="" type="checkbox"/>
Driller		Joe Tedford	12.00	JT	<input checked="" type="checkbox"/>
Derrickman		Mason Paas	12.00	MP	<input checked="" type="checkbox"/>
Motorman		Peter Sunshine	12.00	PS	<input checked="" type="checkbox"/>
Floorman		Scott Arsenault	12.00	SA	<input checked="" type="checkbox"/>
Floorman		Dwain Roadhouse	12.00	DR	<input checked="" type="checkbox"/>
Leaseman		stephen sorenson	12.00	ss	<input checked="" type="checkbox"/>

NO.	BIT	LENGTH	BIT NO.	SIZE	MUD CODE	DENSITY	FUNNEL	W.L.	PH	JETS	DEPTH OUT	DEPTH IN	TOTAL METERS DRILLED	TOTAL HOURS RUN	PRODUCT	AMOUNT x UNIT	HOURS RUN	INITIAL	OVERFLOW	UNDERFLOW
1	bit	222	0.27	4		11.50	1150	8.0	10.0	12.7 12.7 12.7	371.00	362.00	9.00	20:00	Gel	40 sk				
1	bit sub	168	0.92	222		11.50	1150	8.0	10.0	12.7 12.7 12.7	371.00	362.00	9.00	20:00	Barite	42				
5	6.5 d.c.	159	45.79	517		5.5	53	5.5	5.5	12.7 12.7 12.7	371.00	362.00	9.00	20:00	Soda Ash	3 sk				
1	jars	172	4.66	reed		8.0	8.0	8.0	10.0	12.7 12.7 12.7	371.00	362.00	9.00	20:00	Citric Acid	1 sk				
5	6.5 d.c.	159	45.79	517		8.0	8.0	8.0	10.0	12.7 12.7 12.7	371.00	362.00	9.00	20:00	Soda Ash	3 sk				
10	H.W.D.P.	159	91.07	reed		8.0	8.0	8.0	10.0	12.7 12.7 12.7	371.00	362.00	9.00	20:00	Citric Acid	1 sk				

FROM	TO	DEPT	ROTARY	W.P.	TIME	REMARKS
362.00	371.00	d	95	8	20:00	20:15 0:25 21 B.O.P. Drill (tripping)
					20:15	20:45 0:50 6 Trip to install jars
					20:45	22:00 1:25 25 Drill cement f/356 -362m.
					22:00	22:15 0:25 2 drill actual f/ 362m-365m.
					22:15	23:15 1:00 15 formation integrity test
					23:15	0:00 0:75 2 Drill Actual f/365m- 371m. Hole stuffing @ 3359m.

NOTES  
 D.W.A. O.A. Impact brake pin & linkage, fct crossover, slow bolt 3x, hold B.O.P. DRILL (TRIPPING)

CREW	SOC. INS. NO.	NAME	HRS	YES	NO
Rig Manager		Ryan Hildenbrand	0.50	RH	<input checked="" type="checkbox"/>
Driller		Dwayne Arneson	4.00	DA	<input checked="" type="checkbox"/>
Derrickman		Stewart Surridge	4.00	SS	<input checked="" type="checkbox"/>
Motorman		Curtis Tucker	4.00	CT	<input checked="" type="checkbox"/>
Floorman		cody good	4.00	cg	<input checked="" type="checkbox"/>
Floorman		Brad Stensrud	4.00	BS	<input checked="" type="checkbox"/>



Chimo Equipment  
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Based on the CAODC ETS file standard

SPUD		RIG RELEASE		JOB NO. 136		AFE 5270083		DAILY CHECKS		DATE 05-Mar-2005		LAST CASING TUBING OR LINER		O.D. (mm)		MIN ID (mm)		Lgth		MAKE		GRADE		NO OF JOINTS		TOTAL (m) LENGTH		KB TO CSG HEAD (m)		SET AT (m)							
LICENSE NO. 11120		WELL NAME AND NO. Eagle Plains K-58		OPERATOR Devon Canada Ltd.		CONTRACTOR Ensign Drilling Inc.		UNIQUE ID: 300/K-58 66*07' 136*55'		TEMPERATURE		CURRENT CONDITION		WIND DIRECTION		ROAD		OCOP SIZE (mm)		LINEAR MMS (kg/m)		GRADE		MIN ID (mm)		TOOL JT O.D. (mm)		THREAD TYPE		NO OF JOINTS		PUMP TYPE		PUMP MANUFACTURER		STROKE LTR (mm)	
SIGNATURE OF OPERATORS REPRESENTATIVE John Williams		SIGNATURE OF CONTRACTORS REPRESENTATIVE Dave Pietrzykowski		DAILY CHECKS		DAILY CHECKS		DAILY CHECKS		DAILY CHECKS		DAILY CHECKS		DAILY CHECKS		DAILY CHECKS		DAILY CHECKS		DAILY CHECKS		DAILY CHECKS		DAILY CHECKS		DAILY CHECKS		DAILY CHECKS		DAILY CHECKS		DAILY CHECKS		DAILY CHECKS			
TIME - HRS		MORN		DAY		EVE		TOTAL		SHALE SHAKER(S)		RENTALS/SERVICES		WELL TYPE vertical		RE-ENTRY		KB TO GROUND ELEV. -5.00		DATE 05-Mar-2005		OPERATOR Devon Canada Ltd.		CONTRACTOR Ensign Drilling Inc.		RIG MANAGER Dave Pietrzykowski		PROVINCE Yukon		CAMP		RIG SAFETY DAYS: 267.00					
DRILLING ASSEMBLY		BIT RECORD		MUD RECORD		METERS DRILLED		TIME LOG		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		MORNING TOUR 0:00 TO 8:00		DAY TOUR 8:00 TO 16:00		EVENING TOUR 16:00 TO 24:00		INJURIES																			
1 bit		1 bit sub		10 6.5 d.c.		10 hwdc		8		8		8		8		8		8		8																	
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1 bit		1 bit sub		10 6.5 d.c.		10 hwdc		8		8		8		8		8		8		8																	
1 bit		1 bit sub		10 6.5 d.c.		10 hwdc		8		8		8		8		8		8		8																	
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1 bit		1 bit sub		10 6.5 d.c.		10 hwdc		8</																													



Chimo Equipment  
A Varco Company

Based on the CAODC ETS file standard

SPUD: RIG RELEASE: JOB NO. 136 AFE 5270083

OPERATOR: Devon Canada Ltd. CONTRACTOR: Ensign Drilling Inc.

SURFACE LOCATION: 60° 07' 34.8" N 300°K-58 66°07' 136°55" W

DATE: 04-Mar-2005

LAST CASING TUBING OR LINER: FUEL @ 8:00

RIG NO. 55

RIG 182 BOILER 210

TEMPERATURE: -28

CURRENT CONDITION: cloudy

WIND DIRECTION: 20 mph

ROAD: icy

DAILY CHECKS: (1) Daily Walk Around Inspection, (2) Detailed Inspection Weekly, (3) HOS Signs Posted, (4) Well License & Diagram Posted, (5) Flow Line Blamed, (6) BOP Data Performed, (7) Visually Inspect BOP's Flarelines & Degreaser Lines, (8) Rig Site Health and Safety Meeting, (9) CAODC Rig Safety Inspection Checklist, (10) Mast Inspection Before Raising or Lowering, (11) Crown Saver Checked, (12) Mast Kils Checked.

CODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
MORN																										
DAY																										
EVE																										
TOTAL																										

NO.	TYPE	NEW	Loader	MOEN	DAY	EVE
8.00	SCREENS CHANGED	YES	NO	8.00	8.00	8.00
12.00	TOP	175 n	TOP			
4.00	MIDDLE		MIDDLE			
24.00	BOTTOM	140 u	BOTTOM			

WELL TYPE: vertical

RE-ENTRY:  YES  NO

KB TO GROUND ELEV.: 5.00

DATE: 04-Mar-2005

WELL NAME & No.: Eagle Plains K-58

OPERATOR: Devon Canada Ltd.

CONTRACTOR: Ensign Drilling Inc.

RIG MANAGER: Dave Pietrzykowski

RIG NO.: 55

PROVINCE: Yukon

CAMP:  YES  NO

RIG SAFETY DAYS: 266.00

BIT NO.	SIZE	ADDC CODE	MFG.	TYPE	SERIAL NO.	JETS	DEPTH OUT (m)	DEPTH IN (m)	TOTAL METERS DRILLED (m)	TOTAL HOURS RUN	WT. OF DC	WT. OF STRING
10 6.5 d.c.	165	92.06										
10 hwdc	114	91.07										
8 D.P.	STANDS	151.31										
D.P.	SINGLES											
KELLYDOWN												
TOTAL		334.44										

FROM	TO	TIME LOG	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0:00	0:15	0.25	7 Rig Service
0:15	0:30	0.25	21 Safety Meeting with long hand
0:30	1:30	1.00	12 rig to & run casing
1:30	4:00	2.50	22 lay down joint & change collar float joint
4:00	8:00	4.00	12 Run Casing

CREW	SOC. INS. NO.	NAME	HRS	INJURIES
Rig Manager		Ryan Hildenbrand	0.50	RH <input type="checkbox"/> <input checked="" type="checkbox"/>
Driller		Joe Tedford	8.00	JT <input type="checkbox"/> <input checked="" type="checkbox"/>
Derrickman		Mason Paas	8.00	MP <input type="checkbox"/> <input checked="" type="checkbox"/>
Motorman		Curtis Tucker	8.00	CT <input type="checkbox"/> <input checked="" type="checkbox"/>
Floorman		Scott Arsenaute	8.00	SA <input type="checkbox"/> <input checked="" type="checkbox"/>
Floorman		Dwain Roadhouse	8.00	DR <input type="checkbox"/> <input checked="" type="checkbox"/>

BIT NO.	SIZE	ADDC CODE	MFG.	TYPE	SERIAL NO.	JETS	DEPTH OUT (m)	DEPTH IN (m)	TOTAL METERS DRILLED (m)	TOTAL HOURS RUN	WT. OF DC	WT. OF STRING
10 6.5 d.c.	165	92.06										
10 hwdc	114	91.07										
8 D.P.	STANDS	151.31										
D.P.	SINGLES											
KELLYDOWN												
TOTAL		334.44										

FROM	TO	TIME LOG	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	8:15	0.25	12 Run Casing tag btm. @362m. 2.25m. stick up on casing
8:15	10:30	2.25	5 Condition Mud & Circ.
10:30	10:45	0.25	21 Safety Meeting with cementers
10:45	14:00	3.25	12 Cement
14:00	14:15	0.25	21 Safety Meeting review Devon's H.B. Sec# 6.2 cables chains, rope.
14:15	20:00	5.75	13 Wait on Cement

CREW	SOC. INS. NO.	NAME	HRS	INJURIES
Rig Manager		Dave Pietrzykowski	1.00	DP <input type="checkbox"/> <input checked="" type="checkbox"/>
Driller		Dwayne Armeson	12.00	DA <input type="checkbox"/> <input checked="" type="checkbox"/>
Derrickman		Stewart Surridge	12.00	SS <input type="checkbox"/> <input checked="" type="checkbox"/>
Motorman		Peter Sunshine	12.00	PS <input type="checkbox"/> <input checked="" type="checkbox"/>
Floorman		cody good	12.00	cg <input type="checkbox"/> <input checked="" type="checkbox"/>
Floorman		Brad Stensrud	12.00	BS <input type="checkbox"/> <input checked="" type="checkbox"/>
Leaseman		stephen sorenson	12.00	ss <input type="checkbox"/> <input checked="" type="checkbox"/>

BIT NO.	SIZE	ADDC CODE	MFG.	TYPE	SERIAL NO.	JETS	DEPTH OUT (m)	DEPTH IN (m)	TOTAL METERS DRILLED (m)	TOTAL HOURS RUN	WT. OF DC	WT. OF STRING
1 bit												
1 bit sub												
10 6.5 d.c.	165	92.06										
10 hwdc	114	91.07										
8 D.P.	STANDS	151.31										
D.P.	SINGLES											
KELLYDOWN												
TOTAL		334.44										

FROM	TO	TIME LOG	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
20:00	20:15	0.25	21 Safety Meeting reviewed jsa's D-6,E-1 & E-2.
20:15	20:30	0.25	7 Rig Service
20:30	0:00	3.50	23 tear out diverter cut conductor

CREW	SOC. INS. NO.	NAME	HRS	INJURIES
Rig Manager		Ryan Hildenbrand	0.50	RH <input type="checkbox"/> <input checked="" type="checkbox"/>
Driller		Joe Tedford	4.00	JT <input type="checkbox"/> <input checked="" type="checkbox"/>
Derrickman		Mason Paas	4.00	MP <input type="checkbox"/> <input checked="" type="checkbox"/>
Motorman		Curtis Tucker	4.00	CT <input type="checkbox"/> <input checked="" type="checkbox"/>
Floorman		Scott Arsenaute	4.00	SA <input type="checkbox"/> <input checked="" type="checkbox"/>
Floorman		Dwain Roadhouse	4.00	DR <input type="checkbox"/> <input checked="" type="checkbox"/>





Chimo Equipment  
A Varco Company

Based on the CAODC ETS file standard

SPUD	RIG RELEASE	JOB NO.	AFE	270083
LICENCE NO.	WELL NAME AND NO.	CONTRACTOR	Ensign Drilling Inc.	
11120	Eagle Plains K-58	UNIQUE ID:	300/K-58 66°07' 136°55'	
OPERATOR	Devon Canada Ltd.			
SURFACE LOCATION	60° 07' 34.8"			
SIGNATURE OF OPERATORS REPRESENTATIVE	John Williams			
SIGNATURE OF CONTRACTORS REPRESENTATIVE	Dave Pietrzykowski			

TIME - HRS	OPER	START	END	TRIPS	REVS	FEED	DEPTH	TEMP	WIND	DIR	SAFETY
MORN		7.50			0.25		0.25				
DAY		1.00		4.50	6.00	0.25	0.25				
EVE				1.25	2.25	0.25					
TOTAL		8.50		6.75	8.25	0.75	0.50				

DRILLING ASSEMBLY		BIT RECORD		MUD RECORD	
NO.	SIZE	NO.	SIZE	MUD TYPE	WATER BASED
1	311	3	311		
1	222	1.03	311	TIME	02:00
1	220	0.80	IADC CODE	5	1
2	220	18.65	MFG.	SMITH	
10	165	92.06	TYPE	F2XP	
10	114	91.07	SERIAL NO.	YD5187	
bha 203.90		JETS		MUD MATERIAL ADDED	
		DEPTH OUT (m)		SOLIDS CONTROL	
		DEPTH IN (m)		PRODUCT	
		TOTAL METERS DRILLED (m)		AMOUNT x UNIT	
		TOTAL HOURS RUN		Barite	
		KELLYDOWN		64	
		TOTAL		HOURS RUN	
		WT. OF DC		10.00	
		WT. OF STRING		23.00	

DRILLING ASSEMBLY		BIT RECORD		MUD RECORD	
NO.	SIZE	NO.	SIZE	MUD TYPE	WATER BASED
1	311	3	311	TIME	10:00
1	222	1.03	311	DENSITY	1180
1	220	0.80	IADC CODE	5	1
2	220	18.65	MFG.	SMITH	
10	165	92.06	TYPE	F2XP	
10	114	91.07	SERIAL NO.	YD5187	
bha 203.90		JETS		MUD MATERIAL ADDED	
		DEPTH OUT (m)		SOLIDS CONTROL	
		DEPTH IN (m)		PRODUCT	
		TOTAL METERS DRILLED (m)		AMOUNT x UNIT	
		TOTAL HOURS RUN		Citric Acid	
		KELLYDOWN		4 sk	
		TOTAL		HOURS RUN	
		WT. OF DC		10.00	
		WT. OF STRING		23.00	

DRILLING ASSEMBLY		BIT RECORD		MUD RECORD	
NO.	SIZE	NO.	SIZE	MUD TYPE	WATER BASED
1	311	3	311	TIME	20:00
1	222	1.03	311	DENSITY	1180
1	220	0.80	IADC CODE	5	1
2	220	18.65	MFG.	SMITH	
10	165	92.06	TYPE	F2XP	
10	114	91.07	SERIAL NO.	YD5187	
bha 203.90		JETS		MUD MATERIAL ADDED	
		DEPTH OUT (m)		SOLIDS CONTROL	
		DEPTH IN (m)		PRODUCT	
		TOTAL METERS DRILLED (m)		AMOUNT x UNIT	
		TOTAL HOURS RUN		Gel	
		KELLYDOWN		10	
		TOTAL		HOURS RUN	
		WT. OF DC		10.00	
		WT. OF STRING		23.00	

DATE	03-Mar-2005	LAST CASING TUBING OR LINER	
RIG NO.	55	FUEL @ 8:00	
RIG	174 BOILER 143		
TEMPERATURE	114.00	DCOP SIZE (mm)	159.00
CURRENT CONDITION	114.00	LINEAR MASS (kg/m)	130.30
WIND DIRECTION	114.00	GRADE	D.C.
ROAD	159.00	NO. ID (mm)	64.00

SHALE SHAKER(S)		RENTALS/SERVICES	
NO.	TYPE	NO.	TYPE
8.00	SCREENS CHANGED	8.00	Loader
12.00	TOP --175 n	8.00	crew truck unit # R5053
4.00	MIDDLE		
24.00	BOTTOM 140 u		

METERS DRILLED		TIME LOG		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	
FROM	TO	NO.	TYPE	FROM	TO
320.00	353.00	d	130	0:00	0:15
			4-6	0:15	0:25
				0:25	0:50
				0:50	1:00
				1:00	1:15
				1:15	1:30
				1:30	1:45
				1:45	2:00
				2:00	2:15
				2:15	2:30
				2:30	2:45
				2:45	3:00
				3:00	3:15
				3:15	3:30
				3:30	3:45
				3:45	4:00
				4:00	4:15
				4:15	4:30
				4:30	4:45
				4:45	5:00
				5:00	5:15
				5:15	5:30
				5:30	5:45
				5:45	6:00
				6:00	6:15
				6:15	6:30
				6:30	6:45
				6:45	7:00
				7:00	7:15
				7:15	7:30
				7:30	7:45
				7:45	8:00
				8:00	8:15
				8:15	8:30
				8:30	8:45
				8:45	9:00
				9:00	9:15
				9:15	9:30
				9:30	9:45
				9:45	10:00
				10:00	10:15
				10:15	10:30
				10:30	10:45
				10:45	11:00
				11:00	11:15
				11:15	11:30
				11:30	11:45
				11:45	12:00
				12:00	12:15
				12:15	12:30
				12:30	12:45
				12:45	13:00
				13:00	13:15
				13:15	13:30
				13:30	13:45
				13:45	14:00
				14:00	14:15
				14:15	14:30
				14:30	14:45
				14:45	15:00
				15:00	15:15
				15:15	15:30
				15:30	15:45
				15:45	16:00
				16:00	16:15
				16:15	16:30
				16:30	16:45
				16:45	17:00
				17:00	17:15
				17:15	17:30
				17:30	17:45
				17:45	18:00
				18:00	18:15
				18:15	18:30
				18:30	18:45
				18:45	19:00
				19:00	19:15
				19:15	19:30
				19:30	19:45
				19:45	20:00
				20:00	20:15
				20:15	20:30
				20:30	20:45
				20:45	21:00
				21:00	21:15
				21:15	21:30
				21:30	21:45
				21:45	22:00
				22:00	22:15
				22:15	22:30
				22:30	22:45
				22:45	23:00
				23:00	23:15
				23:15	23:30
				23:30	23:45
				23:45	24:00
				24:00	24:15
				24:15	24:30
				24:30	24:45
				24:45	25:00
				25:00	25:15
				25:15	25:30
				25:30	25:45
				25:45	26:00
				26:00	26:15
				26:15	26:30
				26:30	26:45
				26:45	27:00
				27:00	27:15
				27:15	27:30
				27:30	27:45
				27:45	28:00
				28:00	28:15
				28:15	28:30
				28:30	28:45
				28:45	29:00
				29:00	29:15
				29:15	29:30
				29:30	29:45
				29:45	30:00
				30:00	30:15
				30:15	30:30
				30:30	30:45
				30:45	31:00
				31:00	31:15
				31:15	31:30
				31:30	31:45
				31:45	32:00
				32:00	32:15
				32:15	32:30
				32:30	32:45
				32:45	33:00
				33:00	33:15
				33:15	33:30
				33:30	33:45
				33:45	34:00
				34:00	34:15
				34:15	34:30
				34:30	34:45
				34:45	35:00
				35:00	35:15
				35:15	35:30
				35:30	35:45
				35:45	36:00
				36:00	36:15
				36:15	36:30
				36:30	36:45
				36:45	37:00
				37:00	37:15
				37:15	37:30
				37:30	37:45
				37:45	38:00
				38:00	38:15
				38:15	38:30
				38:30	38:45
				38:45	39:00
				39:00	39:15
				39:15	39:30
				39:30	39:45
				39:45	40:00
				40:00	40:15
				40:15	40:30
				40:30	40:45
				40:45	41:00
				41:00	41:15
				41:15	



Chimo Equipment  
A Varco Company

Based on the CAODC ETS file standard

SPUD: RIG RELEASE: JOB NO. 136 AFE 5270083

LICENCE NO. 11120: WELL NAME AND NO. Eagle Plains K-58

OPERATOR: Devon Canada Ltd. CONTRACTOR: Ensign Drilling Inc.

SURFACE LOCATION: 60° 07' 34.8" S: 300K-58 66° 07' 136° 55'

SIGNATURE OF OPERATORS REPRESENTATIVE: Roland Benoit SIGNATURE OF CONTRACTORS REPRESENTATIVE: Dave Pietrzykowski

- DAILY CHECKS
- 1) Daily Visual Around Inspection
  - 2) Detailed Inspection Weekly (during checks)
  - 3) H2S Signs Posted (if required)
  - 4) Well License & Check Diagram Posted
  - 5) Flare Line Staked
  - 6) BOP Data Performed
  - 7) Visually Inspect BOP's, Flarelines & Degasser Lines
  - 8) Rig Site Health and Safety Meeting (once/monthly)
  - 9) C.A.O.D.C. Rig Safety Inspection Checklist (once/monthly)
  - 10) Mast Inspection Before Raising or Lowering
  - 11) Crown Saver Checked
  - 12) Motor Kibs Checked

DATE: 02-Mar-2005

RIG NO. 55

FUEL @ 8:00

RIG 85 BOILER 182

TEMPERATURE: 114.00

WIND DIRECTION: ROAD

WIND SPEED: 114.00

ROAD: 159.00

SHALE SHAKER(S): NEW Loader

RENTALS/SERVICES: crew truck unit # R5053

WELL TYPE: vertical

RE-ENTRY:  YES  NO

KB TO GROUND ELEV.: -6.00

DATE: 02-Mar-2005

TIME - HRS	CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
MORN	7.00																										
DAY	8.00																										
EVE	3.25																										
TOTAL	18.75																										

NO.	BIT	Q.D. (mm)	LENGTH (m)	BIT NO.	SIZE	MUD TYPE	WATER BASED	OL BASED	TIME	DEPTH OUT (m)	DEPTH IN (m)	TOTAL METERS DRILLED (m)	TOTAL HOURS RUN
1	Bit	311	0.29	311	2				02:00	04:00	06:00		
1	Bit sub	222	1.03	311	2				11:80	11:80	11:80		
1	Bell sub	220	0.80	IADC CODE 4 3 7		DENSITY 1180							
2	9" D.C	220	18.65	MFG. reed		FUNNEL VIS. (FV) 65			60	60			
10	6.5" D.C	165	92.06	TYPE mxr 18d		W.L. (cm3) 11.5			11.5	11.5			
10	HWDP	114	91.07	SERIAL NO. rr00539		pH 11.5			11.5	11.5			

NO.	BIT	Q.D. (mm)	LENGTH (m)	BIT NO.	SIZE	MUD TYPE	WATER BASED	OL BASED	TIME	DEPTH OUT (m)	DEPTH IN (m)	TOTAL METERS DRILLED (m)	TOTAL HOURS RUN
1	Bit	311	0.29	311	3				10:00	12:00	18:00		
1	Bit sub	222	1.03	311	3								
1	Bell sub	220	0.80	IADC CODE 4 3 7 5 1 7		DENSITY 1180			50	50			
2	9" D.C	220	18.65	MFG. reed SMITH		FUNNEL VIS. (FV) 50			53	53			
10	6.5" D.C	165	92.06	TYPE mxr 18d F2XP		W.L. (cm3) 12.0			11.5	11.5			
10	HWDP	114	91.07	SERIAL NO. rr00539 YD5187		pH 11.5			11.5	11.5			

NO.	BIT	Q.D. (mm)	LENGTH (m)	BIT NO.	SIZE	MUD TYPE	WATER BASED	OL BASED	TIME	DEPTH OUT (m)	DEPTH IN (m)	TOTAL METERS DRILLED (m)	TOTAL HOURS RUN
1	Bit	311	0.29	311	3				20:00	22:00	00:00		
1	Bit sub	222	1.03	311	3								
1	Bell sub	220	0.80	IADC CODE 5 1 7		DENSITY 1180			63	60			
2	9" D.C	220	18.65	MFG. SMITH		FUNNEL VIS. (FV) 65			63	60			
10	6.5" D.C	165	92.06	TYPE F2XP		W.L. (cm3) 11.5			11.5	11.5			
10	HWDP	114	91.07	SERIAL NO. YD5187		pH 11.5			11.5	11.5			

NO.	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO
252.00	276.00	d	130-140	5-6	0:00	0:15	0:25	7	Rig Service fct annular 8 sec o/c				
291.00	305.00	d	120	4	8:15	12:30	4.25	2	Drill Actual F/ 276m - 291m.				
6000	152	90	152	115	13:00	16:15	3.25	6	Trip for Bit trip cal 2.7 act. 3.82				
276.00	291.00	d	150	6	8:00	8:15	0:25	7	Rig Service fct/H.C.R. 3 SECS.				
291.00	305.00	d	120	4	8:15	12:30	4.25	2	Drill Actual F/ 276m - 291m.				
6000	152	90	152	115	13:00	16:15	3.25	6	Trip for Bit trip cal 2.7 act. 3.82				
276.00	291.00	d	150	6	8:00	8:15	0:25	7	Rig Service fct/H.C.R. 3 SECS.				
291.00	305.00	d	120	4	8:15	12:30	4.25	2	Drill Actual F/ 276m - 291m.				
6000	152	90	152	115	13:00	16:15	3.25	6	Trip for Bit trip cal 2.7 act. 3.82				
276.00	291.00	d	150	6	8:00	8:15	0:25	7	Rig Service fct/H.C.R. 3 SECS.				
291.00	305.00	d	120	4	8:15	12:30	4.25	2	Drill Actual F/ 276m - 291m.				
6000	152	90	152	115	13:00	16:15	3.25	6	Trip for Bit trip cal 2.7 act. 3.82				
276.00	291.00	d	150	6	8:00	8:15	0:25	7	Rig Service fct/H.C.R. 3 SECS.				
291.00	305.00	d	120	4	8:15	12:30	4.25	2	Drill Actual F/ 276m - 291m.				
6000	152	90	152	115	13:00	16:15	3.25	6	Trip for Bit trip cal 2.7 act. 3.82				
276.00	291.00	d	150	6	8:00	8:15	0:25	7	Rig Service fct/H.C.R. 3 SECS.				
291.00	305.00	d	120	4	8:15	12:30	4.25	2	Drill Actual F/ 276m - 291m.				
6000	152	90	152	115	13:00	16:15	3.25	6	Trip for Bit trip cal 2.7 act. 3.82				
276.00	291.00	d	150	6	8:00	8:15	0:25	7	Rig Service fct/H.C.R. 3 SECS.				
291.00	305.00	d	120	4	8:15	12:30	4.25	2	Drill Actual F/ 276m - 291m.				
6000	152	90	152	115	13:00	16:15	3.25	6	Trip for Bit trip cal 2.7 act. 3.82				
276.00	291.00	d	150	6	8:00	8:15	0:25	7	Rig Service fct/H.C.R. 3 SECS.				
291.00	305.00	d	120	4	8:15	12:30	4.25	2	Drill Actual F/ 276m - 291m.				
6000	152	90	152	115	13:00	16:15	3.25	6	Trip for Bit trip cal 2.7 act. 3.82				
276.00	291.00	d	150	6	8:00	8:15	0:25	7	Rig Service fct/H.C.R. 3 SECS.				
291.00	305.00	d	120	4	8:15	12:30	4.25	2	Drill Actual F/ 276m - 291m.				
6000	152	90	152	115	13:00	16:15	3.25	6	Trip for Bit trip cal 2.7 act. 3.82				
276.00	291.00	d	150	6	8:00	8:15	0:25	7	Rig Service fct/H.C.R. 3 SECS.				
291.00	305.00	d	120	4	8:15	12:30	4.25	2	Drill Actual F/ 276m - 291m.				
6000	152	90	152	115	13:00	16:15	3.25	6	Trip for Bit trip cal 2.7 act. 3.82				
276.00	291.00	d	150	6	8:00	8:15	0:25	7	Rig Service fct/H.C.R. 3 SECS.				
291.00	305.00	d	120	4	8:15	12:30	4.25	2	Drill Actual F/ 276m - 291m.				
6000	152	90	152	115	13:00	16:15	3.25	6	Trip for Bit trip cal 2.7 act. 3.82				
276.00	291.00	d	150	6	8:00	8:15	0:25	7	Rig Service fct/H.C.R. 3 SECS.				
291.00	305.00	d	120	4	8:15	12:30	4.25	2	Drill Actual F/ 276m - 291m.				
6000	152	90	152	115	13:00	16:15	3.25	6	Trip for Bit trip cal 2.7 act. 3.82				
276.00	291.00	d	150	6	8:00	8:15	0:25	7	Rig Service fct/H.C.R. 3 SECS.				
291.00	305.00	d	120	4	8:15	12:30	4.25	2	Drill Actual F/ 276m - 291m.				
6000	152	90	152	115	13:00	16:15	3.25	6	Trip for Bit trip cal 2.7 act. 3.82				
276.00	291.00	d	150	6	8:00	8:15	0:25	7	Rig Service fct/H.C.R. 3 SECS.				
291.00	305.00	d	120	4	8:15	12:30	4.25	2	Drill Actual F/ 276m - 291m.				
6000	152	90	152	115	13:00	16:15	3.25	6	Trip for Bit trip cal 2.7 act. 3.82				
276.00	291.00	d	150	6	8:00	8:15	0:25	7	Rig Service fct/H.C.R. 3 SECS.				
291.00	305.00	d	120	4	8:15	12:30	4.25	2	Drill Actual F/ 276m - 291m.				
6000	152	90	152	115	13:00	16:15	3.25	6	Trip for Bit trip cal 2.7 act. 3.82				
276.00	291.00	d	150	6	8:00	8:15	0:25	7	Rig Service fct/H.C.R. 3 SECS.				
291.00	305.00	d	120	4	8:15	12:30	4.25	2	Drill Actual F/ 276m - 291m.				
6000	152	90	152	115	13:00	16:15	3.25	6	Trip for Bit trip cal 2.7 act. 3.82				
276.00	291.00	d	150	6	8:00	8:15	0:25	7	Rig Service fct/H.C.R. 3 SECS.				
291.00	305.00	d	120	4	8:15	12:30	4.25	2	Drill Actual F/ 276m - 291m.				
6000	152	90	152	115	13:00	16:15	3.25	6	Trip for Bit trip cal 2.7 act. 3.82				
276.00	291.00	d	150	6	8:00	8:15	0:25	7	Rig Service fct/H.C.R. 3 SECS.				
291.00	305.00	d	120	4	8:15	12:30	4.25	2	Drill Actual F/ 276m - 291m.				
6000	152	90	152	115	13:00	16:15	3.25	6	Trip for Bit trip cal 2.7 act. 3.82				
276.00	291.00	d	150	6	8:00	8:15	0:25	7	Rig Service fct/H.C.R. 3 SECS.				
291.00	305.00	d	120	4	8:15	12:30	4.25	2	Drill Actual F/ 276m - 291m.				
6000	152	90	152	115	13:00	16:15	3.25	6	Trip for Bit trip cal 2.7 act. 3.82				
276.00	291.00	d	150	6	8:00	8:15	0:25	7	Rig Service fct/H.C.R. 3 SECS.				
291.00	305.00	d	120	4	8:15	12:30	4.25	2	Drill Actual F/ 276m - 291m.				
6000	152	90	152	115	13:00	16:15	3.25						



Chimo Equipment  
A Varco Company

Based on the CAODC ETS file standard

SPUD: RIG RELEASE, JOB NO. 136, AFE 5270083  
 LICENCE NO. 11120, WELL NAME AND NO. Eagle Plains K-58  
 OPERATOR: Devon Canada Ltd., CONTRACTOR: Ensign Drilling Inc.  
 SURFACE LOCATION: 60° 07' 34.8", UNIQUE ID: 300/K-58 66°07' 136°55"  
 SIGNATURE OF OPERATORS REPRESENTATIVE: Roland Benoit, SIGNATURE OF CONTRACTORS REPRESENTATIVE: Dave Pietrzykowski

DAILY CHECKS:  
 (1) Daily Walk Around Inspection  
 (2) Detailed Inspection-Weekly (using checklist)  
 (3) H2S Signs Posted (if required)  
 (4) Well Leases & Stock Diagram Posted  
 (5) Flare Line Checked  
 (6) BOP Data Performed  
 (7) Visually Inspect BOP's Flarelines & Degasser Lines  
 (8) Rig Site Health and Safety Meeting (once/month)  
 (9) C A O D C Rig Safety Inspection Checklist (once/month)  
 (10) Mast Inspection Before Raising or Lowering  
 (11) Crown Saver Checked  
 (12) Master Key Checked

DATE: 01-Mar-2005, RIG NO. 55, FUEL @ 8:00, RIG 98 BOILER 197

WEATHER: TEMPERATURE 114.00, CURRENT CONDITION 114.00, WIND DIRECTION 159.00, ROAD 130.30

TIME HRS

CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL
OPER	7.25																										8.00
MORN																											12.00
DAY	8.25																										4.00
EVE	3.25																										24.00
TOTAL	18.75																										8.00

SHALE SHAKER(S) RENTALS/SERVICES

NO.	TYPE	NEW	LOADER	MORNI	DAY	EVE
1	NEW	YES	NO	8.00	8.00	8.00
2	NEW	NO	NO	8.00	8.00	8.00
3	MIDDLE	NO	NO	8.00	8.00	8.00
4	MIDDLE	NO	NO	8.00	8.00	8.00
5	BOTTOM	NO	NO	8.00	8.00	8.00

WELL TYPE: vertical, RE-ENTRY: YES, KB TO GROUND ELEV.: 5.00  
 WELL NAME & NO.: Eagle Plains K-58, DATE: 01-Mar-2005  
 OPERATOR: Devon Canada Ltd., CONTRACTOR: Ensign Drilling Inc.  
 RIG MANAGER: Dave Pietrzykowski, RIG NO.: 55  
 PROVINCE: Yukon, CAMP: YES, RIG SAFETY DAYS: 263.00

BIT RECORD

NO.	BIT	O.D. (mm)	LENGTH	BIT NO.	SIZE	MUD TYPE	WATER BASED	OL BASED	TIME
1	Bit	311	0.29	1r1	311				02:00
1	Bit sub	222	1.03		311				04:00
1	Bell sub	220	0.80						06:00
2	9" D.C	220	18.65						11:30
10	6.5" D.C	165	92.06						57
9	HWDP	114	82.12						60
									65
									11.0
									11.0

METERS DRILLED

FROM	TO	ROTARY R.P.M.	W.P.M.	TIME	REMARKS
170.00	198.00	d	120-130	3-4	0:00
				0:15	7:30
				7:30	8:00
				8:00	0:50
				10	Deviation Survey accumulated
				3100	152 140 152
					REDUCED PUMP SPEED
					DEPTH (m) DEVIATION (e) DIRECTION
					167.00 3
					185.00 3

MORNING TOUR 0:00 TO 8:00

CREW	SOC. INS. NO.	NAME	HRS	YES	NO
Rig Manager		Ryan Hildenbrand	0.50	RH	
Driller		Joe Tedford	8.00	JT	
Derrickman		Mason Paas	8.00	MP	
Motorman		Peter Sunshine	8.00	PS	
Floorman		Tyler Fiveland	8.00	TF	
Floorman		Brad Stensrud	8.00	BS	
Leaseman		cam devries	8.00	cd	

BIT RECORD

NO.	BIT	O.D. (mm)	LENGTH	BIT NO.	SIZE	MUD TYPE	WATER BASED	OL BASED	TIME
1	Bit	311	0.29	1r1	311				08:00
1	Bit sub	222	1.03		311				14:00
1	Bell sub	220	0.80						11:30
2	9" D.C	220	18.65						67
10	6.5" D.C	165	92.06						60
10	HWDP	114	91.07						12.0
									11.5
									12.0
									11.5

METERS DRILLED

FROM	TO	ROTARY R.P.M.	W.P.M.	TIME	REMARKS
198.00	234.00	d	140	5.0	8:00
				8:15	9:15
				1:00	2
				9:15	9:45
				0:50	5
				9:45	12:30
				2:75	6
				12:30	19:45
				7:25	2
				19:45	20:00
				0:25	10
					Deviation Survey @213m.
					DEPTH (m) DEVIATION (e) DIRECTION
					213.00 3

DAY TOUR 8:00 TO 20:00

CREW	SOC. INS. NO.	NAME	HRS	YES	NO
Rig Manager		Dave Pietrzykowski	1.00	DP	
Driller		Dwayne Armeson	12.00	DA	
Derrickman		Stewart Surridge	12.00	SS	
Motorman		Curtis Tucker	8.00	CT	
Floorman		cody good	12.00	cg	
Floorman		Troy Warawa	8.00	TW	
Leaseman		stephen sorenson	12.00	ss	

BIT RECORD

NO.	BIT	O.D. (mm)	LENGTH	BIT NO.	SIZE	MUD TYPE	WATER BASED	OL BASED	TIME
1	Bit	311	0.29	2	311				20:00
1	Bit sub	222	1.03		311				22:00
1	Bell sub	220	0.80						11:30
2	9" D.C	220	18.65						84
10	6.5" D.C	165	92.06						83
10	HWDP	114	91.07						12.0
									12.0
									12.0
									12.0

METERS DRILLED

FROM	TO	ROTARY R.P.M.	W.P.M.	TIME	REMARKS
234.00	252.00	d	130-140	4-5	20:00
				20:15	20:30
				0:25	21
				20:30	20:45
				0:25	22
				20:45	0:00
				3:25	2
					Drilling dreak-monitor well
					Drill f/234m-252m
					DEPTH (m) DEVIATION (e) DIRECTION
					5700 152 100 152 110
					REDUCED PUMP SPEED

EVENING TOUR 20:00 TO 24:00

CREW	SOC. INS. NO.	NAME	HRS	YES	NO
Rig Manager		Ryan Hildenbrand	0.50	RH	
Driller		Joe Tedford	4.00	JT	
Derrickman		Mason Paas	4.00	MP	
Motorman		Peter Sunshine	8.00	PS	
Floorman		Tyler Fiveland	4.00	TF	
Floorman		Brad Stensrud	8.00	BS	
Leaseman		cam devries	4.00	cd	



SPUD RIG RELEASE JOB NO. AFE 5270083

LICENCE NO. 11120 WELL NAME AND NO. Eagle Plains K-58

OPERATOR Devon Canada Ltd. CONTRACTOR Ensign Drilling Inc.

SURFACE LOCATION 60° 07' 34.8" UNIQUE ID: 300/K-58 66° 07' 136° 55'

SIGNATURE OF OPERATORS REPRESENTATIVE Roland Benoit SIGNATURE OF CONTRACTORS REPRESENTATIVE Dave Pietrzykowski

- DAILY CHECKS
- (1) Daily Walk Around Inspection
  - (2) Detailed Inspection (using checklists)
  - (3) H2S Signs Posted (if required)
  - (4) Well Location & Slick Diagram Posted
  - (5) Flow Line Diagram
  - (6) BOP Drive Performed
  - (7) Visually Inspect BOP & Flarelines & Degasser Lines
  - (8) Rig Site Health and Safety Meeting (see requirements)
  - (9) C.A.O.D.C. Rig Safety Inspection Checklist (see requirements)
  - (10) Mast Inspection Before Raising or Lowering
  - (11) Crown Block Checked
  - (12) Mast Ribs Checked

DATE 28-Feb-2005

RIG NO. 55

FUEL @ 8:00

RIG 129 BOILER 103

WEATHER TEMPERATURE 114.00

CURRENT CONDITION 114.00

WIND DIRECTION 114.00

ROAD 159.00

SHALE SHAKER(S) Loader

RENTALS/SERVICES crew truck unit # R5053



Based on the CAODC ETS file standard

CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
OPER																								
MORN																								
DAY																								
EVE																								
TOTAL	2.50	11.25				0.75	1.25	0.75																

NO.	TYPE	NEW	MORNI	DAY	EVE
1	SCREENS CHANGED	YES	8.00	8.00	8.00
2	TOP	NO	12.00	140 n	TOP
3	MIDDLE	MIDDLE	4.00		
4	BOTTOM	84 U	24.00		

WELL TYPE vertical RE-ENTRY  YES  NO

DATE 28-Feb-2005

WELL NAME & No. Eagle Plains K-58

OPERATOR Devon Canada Ltd. CONTRACTOR Ensign Drilling Inc.

RIG MANAGER Dave Pietrzykowski RIG NO. 55

PROVINCE Yukon CAMP  YES  NO RIG SAFETY DAYS: 262.00

NO.	BIT	SIZE	LENGTH	BIT NO.	SIZE	LENGTH	MUD TYPE	WATER BASED	OIL BASED
1	Bit	311	0.29	1fr					
1	Bit sub	222	1.03	311					
1	Bell sub	220	-0.80	IADC CODE 1 1 7					
2	9" D.C	220	18.65	MFG. reed					
10	6.5" D.C	165	92.06	TYPE xicxp					
2	HWDP	114	18.05	SERIAL NO. J17674					

DEPTH OUT (m)	DEPTH IN (m)	TOTAL METERS DRILLED (m)	TOTAL HOURS RUN
0.00	0.00	143.00	20.00

FROM	TO	TIME	REMARKS
0:00	0:15	0.25	7 Rig Service, annular 8 sec o/c
0:15	7:00	6.75	13 Wait on Cement
7:00	8:00	1.00	6 Trips r.l.h. & tag cmt @

CREW	SOC. INS. NO.	NAME	HRS	YES	NO
Rig Manager		Ryan Hildenbrand	0.50	RH	<input checked="" type="checkbox"/>
Driller		Joe Tedford	8.00	JT	<input checked="" type="checkbox"/>
Derrickman		Mason Paas	8.00	MP	<input checked="" type="checkbox"/>
Motorman		Peter Sunshine	8.00	PS	<input checked="" type="checkbox"/>
Floorman		Tyler Fiveland	8.00	TF	<input checked="" type="checkbox"/>
Floorman		Brad Stensrud	8.00	BS	<input checked="" type="checkbox"/>
Leaseman		cam devries	8.00	cd	<input checked="" type="checkbox"/>

NO.	BIT	SIZE	LENGTH	BIT NO.	SIZE	LENGTH	MUD TYPE	WATER BASED	OIL BASED
1	Bit	311	0.29	1fr					
1	Bit sub	222	1.03	311					
1	Bell sub	220	0.80	IADC CODE 1 1 7					
2	9" D.C	220	18.65	MFG. reed					
10	6.5" D.C	165	92.06	TYPE xicxp					
2	HWDP	114	18.05	SERIAL NO. J17674					

DEPTH OUT (m)	DEPTH IN (m)	TOTAL METERS DRILLED (m)	TOTAL HOURS RUN
0.00	0.00	143.00	20.00

FROM	TO	TIME	REMARKS
8:00	8:15	0.25	6 R.l.h. tag cement @ 63m.
8:15	8:30	0.25	7 Rig Service fct. hydrill 8secs.
8:30	19:45	11.25	3 drill out cement f/63m.-143m.
19:45	20:00	0.25	5 displace hole to mud

CREW	SOC. INS. NO.	NAME	HRS	YES	NO
Rig Manager		Dave Pietrzykowski	1.00	DP	<input checked="" type="checkbox"/>
Driller		Dwayne Arneson	12.00	DA	<input checked="" type="checkbox"/>
Derrickman		Stewart Surridge	12.00	SS	<input checked="" type="checkbox"/>
Motorman		Curtis Tucker	12.00	CT	<input checked="" type="checkbox"/>
Floorman		cody good	12.00	cg	<input checked="" type="checkbox"/>
Floorman		Troy Warawa	12.00	TW	<input checked="" type="checkbox"/>
Leaseman		stephen sorenson	12.00	ss	<input checked="" type="checkbox"/>

NO.	BIT	SIZE	LENGTH	BIT NO.	SIZE	LENGTH	MUD TYPE	WATER BASED	OIL BASED
1	Bit	311	0.29	1fr					
1	Bit sub	222	1.03	311					
1	Bell sub	220	0.80	IADC CODE 1 1 7					
2	9" D.C	220	18.65	MFG. reed					
10	6.5" D.C	165	92.06	TYPE xicxp					
5	HWDP	114	46.01	SERIAL NO. J17674					

DEPTH OUT (m)	DEPTH IN (m)	TOTAL METERS DRILLED (m)	TOTAL HOURS RUN
0.00	0.00	170.00	22.50

FROM	TO	TIME	REMARKS
20:00	20:15	0.25	21 Safety Meeting
20:15	20:30	0.25	7 Rig Service fct annular 8 sec o/c
20:30	21:00	0.50	5 Condition Mud & Circ.
21:00	21:30	0.50	10 Deviation Survey 1 miss run (accumulated)
21:30	0:00	2.50	2 Drill f/143m-170m

CREW	SOC. INS. NO.	NAME	HRS	YES	NO
Rig Manager		Ryan Hildenbrand	0.50	RH	<input checked="" type="checkbox"/>
Driller		Joe Tedford	4.00	JT	<input checked="" type="checkbox"/>
Derrickman		Mason Paas	4.00	MP	<input checked="" type="checkbox"/>
Motorman		Peter Sunshine	4.00	PS	<input checked="" type="checkbox"/>
Floorman		Tyler Fiveland	4.00	TF	<input checked="" type="checkbox"/>
Floorman		Brad Stensrud	4.00	BS	<input checked="" type="checkbox"/>
Leaseman		cam devries	4.00	cd	<input checked="" type="checkbox"/>



Chimo Equipment  
A Varco Company

Based on the CAODC ETS file standard

SPUD RIG RELEASE JOB NO. AFE 5270083

LICENCE NO. 11120 WELL NAME AND NO. Eagle Plains K-58

OPERATOR Devcon Canada Ltd. CONTRACTOR Ensign Drilling Inc.

SURFACE LOCATION 60° 07' 34.8" UNIQUE ID: 300/K-58 66° 07' 136° 55"

SIGNATURE OF OPERATORS REPRESENTATIVE Roland Benoit SIGNATURE OF CONTRACTORS REPRESENTATIVE Dave Pietrzykowski

- DAILY CHECKS
- Daily Wash Around Inspection
  - Detailed Inspection Weekly (every checklist)
  - M2S Signs Posted (if required)
  - Well License & Sign Diagram Posted
  - Flow Line Status
  - BOP Dims Performed
  - Visually Inspect BOP's Flareless & Degasser Lines
  - Rig Site Health and Safety Meeting (one/two/month)
  - CAODC Rig Safety Inspection Checklist (one/month)
  - Mass Inspection Before Raising or Lowering
  - Crown Saver Checked
  - Water Kill Checked

DATE 27-Feb-2005

RIG NO. 55

FUEL @ 8:00

RIG 196 BOILER 78

TEMPERATURE	DC/OP SIZE	LINEAR MASS	GRADE	MIR ID	TOOL JT O.D.	THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
CONDITION	114.00	24.70	E-75	63.50	158.00	4-1/2 XH	145	PZ-8	Gardner Denver	203
WIND DIRECTION	114.00	62.45	H.W.	72.03	158.00	4-1/2 XH	14	PZ-7	Gardner Denver	178
ROAD	159.00	130.30	D.C.	64.00	159.00	4-1/2 XH	10			

TIME HRS	CODE NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
MORN				3.00				4.75	0.25																
DAY				9.25				2.75																	
EVE				0.25				0.25						0.50											
TOTAL				12.25				7.50	0.50					2.50											

SHALES SHAKER(S) RENTALS/SERVICES

NO	TYPE	NEW	MORN	DAY	EVE
1	Loader	<input checked="" type="checkbox"/>	8.00	8.00	8.00
2	crew truck unit # R5053	<input type="checkbox"/>	8.00	8.00	8.00

WELL TYPE vertical RE-ENTRY  YES  NO

DATE 27-Feb-2005

WELL NAME & No. Eagle Plains K-58

OPERATOR Devcon Canada Ltd. CONTRACTOR Ensign Drilling Inc.

RIG MANAGER Dave Pietrzykowski RIG NO. 55

PROVINCE Yukon CAMP  YES  NO RIG SAFETY DAYS: 261.00

NO.	BIT	LENGTH	BIT NO.	SIZE	MUD TYPE	WATER BASED	TIME
1	Bit	311	0.29	1rr			311
1	Bit sub	222	-1.03				
1	Bell sub	220	0.80	IADC CODE 1 1 7			
2	9" D.C	220	18.65	MFG. reed			
10	6.5" D.C	165	92.06	TYPE xlcxp			
2	HWDP	114	18.05	SERIAL NO. j17674			

NO.	BIT	LENGTH	BIT NO.	SIZE	MUD TYPE	WATER BASED	TIME
1	Bit	311	0.29	1rr			311
1	Bit sub	222	-1.03				
1	Bell sub	220	0.80	IADC CODE 1 1 7			
2	9" D.C	220	18.65	MFG. reed			
10	6.5" D.C	165	92.06	TYPE xlcxp			
2	HWDP	114	18.05	SERIAL NO. j17674			

FROM	TO	ROTARY R.P.M.	W.P. ON (1000 ft)	TIME	REMARKS
20:00	42:00	80	1-2	0:00 0:15 0:25	7 Rig Service fct annular 8 sec o/c
				0:15 3:45 3:50	6 Trips p.o.o.h (pumped out f/30m-20m) run in open ended, wash f/28m-36m,
				5:00 8:00 3:00	3 Reaming 20m, 45m

CREW	SOC. INS. NO.	NAME	HRS	YES	NO
Rig Manager		Ryan Hildenbrand	0.50	RH	<input checked="" type="checkbox"/>
Driller		Joe Tedford	8.00	JT	<input checked="" type="checkbox"/>
Derrickman		Mason Paas	8.00	MP	<input checked="" type="checkbox"/>
Motorman		Peter Sunshine	8.00	PS	<input checked="" type="checkbox"/>
Floorman		Tyler Fiveland	8.00	TF	<input checked="" type="checkbox"/>
Floorman		Brad Stensrud	8.00	BS	<input checked="" type="checkbox"/>
Leaseman		cam devries	8.00	cd	<input checked="" type="checkbox"/>

NO.	BIT	LENGTH	BIT NO.	SIZE	MUD TYPE	WATER BASED	TIME
1	Bit	311	0.29	1rr			08:00
1	Bit sub	222	1.03				18:00
1	Bell sub	220	0.80	IADC CODE 1 1 7			1050
2	9" D.C	220	18.65	MFG. reed			60
10	6.5" D.C	165	92.06	TYPE xlcxp			50
2	HWDP	114	18.05	SERIAL NO. j17674			

NO.	BIT	LENGTH	BIT NO.	SIZE	MUD TYPE	WATER BASED	TIME
1	Bit	311	0.29	1rr			08:00
1	Bit sub	222	1.03				18:00
1	Bell sub	220	0.80	IADC CODE 1 1 7			1050
2	9" D.C	220	18.65	MFG. reed			60
10	6.5" D.C	165	92.06	TYPE xlcxp			50
2	HWDP	114	18.05	SERIAL NO. j17674			

FROM	TO	ROTARY R.P.M.	W.P. ON (1000 ft)	TIME	REMARKS
42:00	142:00	80	3	8:00 17:15 9:25	3 Reaming f/ 45m-142m.
				17:15 19:00 1:75	6 Trips : p.o.o.h. to run plug #4
				19:00 20:00 1:00	6 R.I.H. WITH D.P. to run plugs

CREW	SOC. INS. NO.	NAME	HRS	YES	NO
Rig Manager		Dave Pietrzykowski	1.00	DP	<input checked="" type="checkbox"/>
Driller		Dwayne Arneson	12.00	DA	<input checked="" type="checkbox"/>
Derrickman		Stewart Surridge	12.00	SS	<input checked="" type="checkbox"/>
Motorman		Curtis Tucker	12.00	CT	<input checked="" type="checkbox"/>
Floorman		cody good	12.00	cg	<input checked="" type="checkbox"/>
Floorman		Troy Warawa	12.00	TW	<input checked="" type="checkbox"/>
Leaseman		stephen sorenson	12.00	ss	<input checked="" type="checkbox"/>

NO.	BIT	LENGTH	BIT NO.	SIZE	MUD TYPE	WATER BASED	TIME
1	Bit	311	0.29	1rr			
1	Bit sub	222	1.03				
1	Bell sub	220	0.80	IADC CODE 1 1 7			
2	9" D.C	220	18.65	MFG. reed			
10	6.5" D.C	165	92.06	TYPE xlcxp			
2	HWDP	114	18.05	SERIAL NO. j17674			

NO.	BIT	LENGTH	BIT NO.	SIZE	MUD TYPE	WATER BASED	TIME
1	Bit	311	0.29	1rr			
1	Bit sub	222	1.03				
1	Bell sub	220	0.80	IADC CODE 1 1 7			
2	9" D.C	220	18.65	MFG. reed			
10	6.5" D.C	165	92.06	TYPE xlcxp			
2	HWDP	114	18.05	SERIAL NO. j17674			

FROM	TO	ROTARY R.P.M.	W.P. ON (1000 ft)	TIME	REMARKS
20:00	20:15			0:25	21 Safety Meeting
	20:15			0:25	7 Rig Service fct annular 8 sec o/c
	20:30			0:25	1 Rig Up cementers
	20:45			0:25	21 Safety Meeting prior to cmtng plug
	21:00			2:50	17 Plug Back #4 f/142m-70m plug #5 f/103m-
	23:30			0:00	0:50 13 Wait on Cement

CREW	SOC. INS. NO.	NAME	HRS	YES	NO
Rig Manager		Ryan Hildenbrand	0.50	RH	<input checked="" type="checkbox"/>
Driller		Joe Tedford	4.00	JT	<input checked="" type="checkbox"/>
Derrickman		Mason Paas	4.00	MP	<input checked="" type="checkbox"/>
Motorman		Peter Sunshine	4.00	PS	<input checked="" type="checkbox"/>
Floorman		Tyler Fiveland	4.00	TF	<input checked="" type="checkbox"/>
Floorman		Brad Stensrud	4.00	BS	<input checked="" type="checkbox"/>
Leaseman		cam devries	4.00	cd	<input checked="" type="checkbox"/>



Chimo Equipment  
A Varco Company

Based on the CAODC ETS file standard

SPUD RIG RELEASE JOB NO. AFE  
 11220 WELL NAME AND NO. Eagle Plains K-58  
 136 5270083

OPERATOR: Devon Canada Ltd. CONTRACTOR: Ensign Drilling Inc.  
 SURFACE LOCATION: 60° 07' 34.8" UNIQUE ID: 300K-58 66° 07' 136° 55'  
 SIGNATURE OF OPERATORS REPRESENTATIVE: Roland Benoit SIGNATURE OF CONTRACTORS REPRESENTATIVE: Dave Pietrzykowski

DAILY CHECKS:  
 (1) Daily Work Around Injection  
 (2) Detailed Inspection Weekly (as required)  
 (3) H2S Signs Posted (if required)  
 (4) Well License & Block Diagram Posted  
 (5) Flow Line Status  
 (6) BOP Data Reviewed  
 (7) Visually Inspect BOP's Flarelines & Choke Lines  
 (8) Flow Line Status  
 (9) H2S Signs Posted (if required)  
 (10) CAODC Rig Safety Inspection Checklist (monthly)  
 (11) Visual Inspection Before Raising or Lowering  
 (12) Crown Saver Checked  
 (13) Hoop Kts Checked

DATE: 26-Feb-2005  
 RIG NO.: 55  
 FUEL @ 8:00  
 RIG: 186 BOILER 111

WEATHER:  
 TEMPERATURE: -20  
 CURRENT CONDITION: cloudy  
 WIND DIRECTION: calm  
 ROAD: ice

LAST CASING TUBING OR LINER:  
 O.D. (mm): 114.00  
 MIN ID (mm): 24.70  
 GRADE: E-75  
 MIN ID (mm): 63.50  
 TOOL JT O.D. (mm): 158.00  
 THREAD TYPE: 4-1/2 XH  
 NO OF JOINTS: 145  
 PUMP TYPE: PZ-8  
 PUMP MANUFACTURER: Gardner Denver  
 STROKE LTR (mm): 203

CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
WORN																								
DAY		1.75	2.25		0.75	1.25	0.25						0.25	3.25										
EVE																								
TOTAL		1.75	2.25		0.75	2.50	0.75						0.25	8.00										

SHALE SHAKER(S) RENTALS/SERVICES

NO.	TYPE	NEW	LOADER	MORN	DAY	EVE
8.00	SCREENS CHANGED	YES	NO	8.00	8.00	8.00
12.00	TOP	140 n	TOP	8.00	8.00	8.00
4.00	MIDDLE	MIDDLE	MIDDLE			
24.00	BOTTOM	84 u	BOTTOM			

WELL NAME & No.: Eagle Plains K-58  
 DATE: 26-Feb-2005  
 OPERATOR: Devon Canada Ltd.  
 CONTRACTOR: Ensign Drilling Inc.  
 RIG MANAGER: Dave Pietrzykowski  
 RIG NO.: 55  
 PROVINCE: Yukon  
 CAMP: YES NO  
 RIG SAFETY DAYS: 260.00

BIT RECORD MUD RECORD

NO.	BIT	D.O. (mm)	LENGTH	BIT NO.	SIZE	MUD TYPE	WATER BASED	OIL BASED
1	BIT	311	0.29	11T	311			
1	BIT sub	222	1.03					
1	Bell sub	220	0.80	IADC CODE	1 1 7			
2	9" D.C	220	18.65	MFG.	reed			
9	6.5" D.C	165	82.85	TYPE	xicxp			
				SERIAL NO.	j17674			
				JETS	143 143 143			
				DEPTH OUT (m)	115.00			
				DEPTH IN (m)	0.00			
				TOTAL METERS DRILLED (m)	115.00			
				TOTAL HOURS RUN	18.25			
				PRODUCT	Gel 51			
				AMOUNT x UNIT	Soda Ash 4			
				HOURS RUN				
				REASON PAUSED				
				CLIPPING STRUCTURE				
				TI	TR	MOD	LOC	
				B	Gage	ODC	REASON PAUSED	
				D.P.	STANDS			
				D.P.	SINGLES			
				KELLYDOWN	12.00			
				TOTAL	115.62			
				WT. OF DC	10.00			
				WT. OF STRNG	18.00			

METERS DRILLED TIME LOG DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

FROM	TO	TIME	REMARKS
0:00	0:15	0:25	7 rig service fct annular 8 sec o/c
0:15	4:30	4:25	17 w.o. sanjel to batch mix cmt for plug # 3
4:30	4:45	0:25	12 cement plug # 3 f115m-75m
4:45	8:00	3:25	13 Wait on Cement

DRILLER SIGNATURE: Joe Tedford  
 OPERATOR FUEL: 110.00  
 MAX EXP HOOKLOAD: 400  
 SAFETY TOPIC: p.p.e.

MORNING TOUR 0:00 TO 8:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES
Rig Manager		Ryan Hildenbrand	0.50	DP
Driller		Joe Tedford	8.00	JT
Derrickman		Mason Paas	8.00	MP
Motorman		Peter Sunshine	8.00	PS
Floorman		Tyler Fiveland	8.00	TF
Floorman		Brad Stensrud	8.00	BS
Leaseman		cam devries	8.00	cd

BIT RECORD MUD RECORD

NO.	BIT	D.O. (mm)	LENGTH	BIT NO.	SIZE	MUD TYPE	WATER BASED	OIL BASED
1	BIT	311	0.29	11T	311			
1	BIT sub	222	1.03					
1	Bell sub	220	0.80	IADC CODE	1 1 7			
2	9" D.C	220	18.65	MFG.	reed			
10	6.5" D.C	165	92.06	TYPE	xicxp			
2	HWDP	114	18.05	SERIAL NO.	j17674			
				JETS	143 143 143			
				DEPTH OUT (m)				
				DEPTH IN (m)	0.00			
				TOTAL METERS DRILLED (m)	143.00			
				TOTAL HOURS RUN	20.00			
				PRODUCT	Barite 42 sk			
				AMOUNT x UNIT	Sodium bicarbonate 5 sk			
				HOURS RUN				
				REASON PAUSED				
				CLIPPING STRUCTURE				
				TI	TR	MOD	LOC	
				B	Gage	ODC	REASON PAUSED	
				D.P.	STANDS			
				D.P.	SINGLES			
				KELLYDOWN	12.00			
				TOTAL	142.88			
				WT. OF DC	10.00			
				WT. OF STRNG	18.00			

METERS DRILLED TIME LOG DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

FROM	TO	TIME	REMARKS
8:00	8:15	0:25	7 Rig Service fct/hcr 3secs.
8:15	14:00	5:75	13 Wait on Cement
14:00	15:15	1:25	6 Trips R.I.H. Tag cement @ 70m.
15:15	17:30	2:25	3 remeaning cement
17:30	17:45	0:25	2 Drill Actual 115m-116m.
17:45	18:30	0:75	5 Condition Mud & Circ.
18:30	20:00	1:50	2 Drill Actual 116m-143M.

DRILLER SIGNATURE: Dwayne Arneson  
 OPERATOR FUEL: 10.5  
 MAX EXP HOOKLOAD: 20000.00  
 SAFETY TOPIC: DANGER ZONE

DAY TOUR 8:00 TO 20:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES
Rig Manager		Dave Pietrzykowski	1.00	DP
Driller		Dwayne Arneson	12.00	DA
Derrickman		Stewart Surridge	12.00	SS
Motorman		Curtis Tucker	12.00	CT
Floorman		cody good	12.00	cg
Floorman		Troy Warawa	12.00	TW
Leaseman		stephen sorenson	12.00	ss

BIT RECORD MUD RECORD

NO.	BIT	D.O. (mm)	LENGTH	BIT NO.	SIZE	MUD TYPE	WATER BASED	OIL BASED
1	BIT	311	0.29	11T	311			
1	BIT sub	222	1.03					
1	Bell sub	220	0.80	IADC CODE	1 1 7			
2	9" D.C	220	18.65	MFG.	reed			
10	6.5" D.C	165	92.06	TYPE	xicxp			
2	HWDP	114	18.05	SERIAL NO.	j17674			
				JETS	143 143 143			
				DEPTH OUT (m)				
				DEPTH IN (m)	0.00			
				TOTAL METERS DRILLED (m)	143.00			
				TOTAL HOURS RUN	20.00			
				PRODUCT				
				AMOUNT x UNIT				
				HOURS RUN				
				REASON PAUSED				
				CLIPPING STRUCTURE				
				TI	TR	MOD	LOC	
				B	Gage	ODC	REASON PAUSED	
				D.P.	STANDS			
				D.P.	SINGLES			
				KELLYDOWN	12.00			
				TOTAL	142.88			
				WT. OF DC	10.00			
				WT. OF STRNG	18.00			

METERS DRILLED TIME LOG DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

FROM	TO	TIME	REMARKS
20:00	20:15	0:25	21 Safety Meeting
20:15	20:30	0:25	7 Rig Service fct annular 8 sec o/c
20:30	22:45	2:25	22 w.o. bulk cement
22:45	24:00	1:25	6 Trips p.o.h.to run plugs (pump out f/57m-30m)

DRILLER SIGNATURE: Joe Tedford  
 OPERATOR FUEL: 4.00  
 MAX EXP HOOKLOAD: 11.0  
 SAFETY TOPIC: 19.00 laying down collars

EVENING TOUR 20:00 TO 24:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES
Rig Manager		Ryan Hildenbrand	0.50	RH
Driller		Joe Tedford	4.00	JT
Derrickman		Mason Paas	4.00	MP
Motorman		Peter Sunshine	4.00	PS
Floorman		Tyler Fiveland	4.00	TF
Floorman		Brad Stensrud	4.00	BS
Leaseman		cam devries	4.00	cd



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SPUD	RIG RELEASE	JOB NO. 136	AFE 5270083	DAILY CHECKS (1) Daily Visual Inspection (2) Detailed Inspection/Weekly (using checklist) (3) HOS Signs Posted (if required) (4) Well License & Stock Diagram Posted (5) Flame Line Staked (6) SOP Data Performance (7) Monthly Weighing BOP's Flowlines & Degasser Lines (8) Rig Site Health and Safety Meeting (one 15min/month) (9) CAODC Rig Safety Inspection Checklist (monthly/monthly) (10) Well Inspection Before Raising or Lowering (11) Down Saver Checked (12) Water Kill Checked	DATE 25-Feb-2005	LAST CASING TUBING OR LINER	O.D. (mm)	MIN ID (mm)	kg/m	GRADE	NO. OF JOINTS	TOTAL (m) LENGTH	KB TO CSO HEAD (m)	SET AT (m)		
LICENCE NO. 11120	WELL NAME AND NO. Eagle Plains K-58	CONTRACTOR Ensign Drilling Inc.	UNIQUE ID. 300/K-58 66°07' 136°55'	OPR. R.M.	RIG NO. 55	FUEL @ 8:00										
OPERATOR Devon Canada Ltd.	SURFACE LOCATION 60° 07' 34.8"	SIGNATURE OF OPERATORS REPRESENTATIVE Roland Benoit	SIGNATURE OF CONTRACTORS REPRESENTATIVE Ryan Hildenbrand	WEATHER	TEMPERATURE -16	BOILER 215	DISCOP SIZE	LINEAR MASS 114.00	GRADE E-75	MIN ID 63.50	TOOL JT O.D. 158.00	THREAD TYPE 4-1/2 XH	NO. OF JOINTS 145	PUMP TYPE PZ-8	PUMP MANUFACTURER Gardner Denver	STROKE LTH (mm) 203
				WIND DIRECTION S.e.	CURRENT CONDITION cloudy			114.00	H.W.	72.03	158.00	4-1/2 XH	10	PZ-7	Gardner Denver	178
				ROAD Ice				159.00	D.C.	64.00	159.00	4-1/2 XH	14			

TIME - HRS	NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
MORN																											
DAY		4.25	0.25			4.75	1.00	0.25																			
EVE		0.25					0.50	0.25																			
TOTAL		0.25	4.25	0.25		4.75	1.50	0.75																			

NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
MORN																										
DAY																										
EVE																										
TOTAL																										

NO.	BIT	OD (mm)	LENGTH	BIT NO.	SIZE	MUD TYPE	WATER BASED	OL BASED
1	Bit	311	0.29	1	311			
1	Bit sub	222	-1.03					
1	Bell sub	220	0.80	IADC CODE 5 1 7				
2	9" D.C	220	18.65	MFG. reed				
8	6.5" D.C	165	73.72	TYPE xlcxp				

FROM	TO	DE-B	ROTARY	WT. ON	TIME	REMARKS
0:00	0:15				0:15	Rig Service fct annular 8 sec o/c
0:15	8:00				7:45	drill out cement plugs f/28m-100m

CREW	SOC. INS. NO.	NAME	HRS	YES	NO
Driller		Joe Tedford	8.00	JT	<input checked="" type="checkbox"/>
Derrickman		Mason Paas	8.00	MP	<input checked="" type="checkbox"/>
Motorman		Peter Sunshine	8.00	PS	<input checked="" type="checkbox"/>
Floorman		Tyler Fiveland	8.00	TF	<input checked="" type="checkbox"/>
Floorman		Brad Stensrud	8.00	BS	<input checked="" type="checkbox"/>
Leaseman		cam devries	8.00	cd	<input checked="" type="checkbox"/>

NO.	BIT	OD (mm)	LENGTH	BIT NO.	SIZE	MUD TYPE	WATER BASED	OL BASED
1	Bit	311	0.29	1rr	311			
1	Bit sub	222	1.03					
1	Bell sub	220	0.80	IADC CODE 1 1 7				
2	9" D.C	220	18.65	MFG. reed				
9	6.5" D.C	165	82.85	TYPE xlcxp				

FROM	TO	DE-B	ROTARY	WT. ON	TIME	REMARKS
8:00	8:15				8:15	Rig Service fct/hcr 3sec
8:15	9:45				9:45	drill out cement
9:45	10:00				10:00	displace hole to mud
10:00	10:45				10:45	lost circ. build volume.
10:45	13:00				13:00	Drill Actual 100m. - 106m.
13:00	16:15				16:15	Condition Mud & Circ. wiper trip to 9in, R.I.H. to 106m.
16:15	17:30				17:30	Drill Actual 106m. -115m. drilled blind
17:30	18:45				18:45	Condition Mud & Circ.
18:45	19:00				19:00	Reaming 106m.-115m.
19:00	20:00				20:00	Trips P.O.O.H. TO RUN PLUGS

CREW	SOC. INS. NO.	NAME	HRS	YES	NO
Rig Manager		Ryan Hildenbrand	1.00	RH	<input checked="" type="checkbox"/>
Driller		Dwayne Ameson	12.00	DA	<input checked="" type="checkbox"/>
Derrickman		Stewart Surridge	12.00	SS	<input checked="" type="checkbox"/>
Motorman		Curtis Tucker	12.00	CT	<input checked="" type="checkbox"/>
Floorman		cody good	12.00	cg	<input checked="" type="checkbox"/>
Floorman		Troy Warawa	12.00	TW	<input checked="" type="checkbox"/>
Leaseman		stephen sorenson	12.00	ss	<input checked="" type="checkbox"/>

NO.	BIT	OD (mm)	LENGTH	BIT NO.	SIZE	MUD TYPE	WATER BASED	OL BASED
1	Bit	311	0.29	1rr	311			
1	Bit sub	222	1.03					
1	Bell sub	220	0.80	IADC CODE 1 1 7				
2	9" D.C	220	18.65	MFG. reed				
9	6.5" D.C	165	82.85	TYPE xlcxp				

FROM	TO	DE-B	ROTARY	WT. ON	TIME	REMARKS
20:00	20:15				20:15	Safety Meeting
20:15	20:30				20:30	Rig Service fct annular 8 sec o/c
20:30	21:00				21:00	pick up drill pipe, r.i.h to cement plug
21:00	21:15				21:15	Safety Meeting prior to cementing plug
21:15	21:30				21:30	Rig Up cementers
21:30	24:00				24:00	W.o. Sanjel to batch mix cmt. for plug # 3

CREW	SOC. INS. NO.	NAME	HRS	YES	NO
Driller		Joe Tedford	4.00	JT	<input checked="" type="checkbox"/>
Derrickman		Mason Paas	4.00	MP	<input checked="" type="checkbox"/>
Motorman		Peter Sunshine	4.00	PS	<input checked="" type="checkbox"/>
Floorman		Tyler Fiveland	4.00	TF	<input checked="" type="checkbox"/>
Floorman		Brad Stensrud	4.00	BS	<input checked="" type="checkbox"/>
Leaseman		cam devries	4.00	cd	<input checked="" type="checkbox"/>











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SPUD RIG RELEASE JOB NO. AFE DATE  
 11120 WELL NAME AND NO Eagle Plains K-58 136 5270083 22-Feb-2005

OPERATOR: Devon Canada Ltd. CONTRACTOR: Ensign Drilling Inc.  
 SURFACE LOCATION: 60° 07' 34.8" UNIQUE ID: 300/K-58 66° 07' 136° 55'

SIGNATURE OF OPERATORS REPRESENTATIVE: Roland Benoit  
 SIGNATURE OF CONTRACTORS REPRESENTATIVE: Ryan Hildenbrand

DAILY CHECKS:  
 (1) Daily Visual Around Inspection  
 (2) Detailed Inspection Weekly (using checklist)  
 (3) H2S Spigs Periodic (if required)  
 (4) Well Loggers & Stick Diagram Periodic  
 (5) Rig Line Drilled  
 (6) BOP Data Performed  
 (7) Visually Inspect BOP & Flarelines & Degasser Lines  
 (8) Ag Site Health and Safety Meeting (once/monthly)  
 (9) CAODC Rig Safety Inspection Checklist (once/monthly)  
 (10) Mast Inspection Before Raising or Lowering  
 (11) Crown Saver Checked  
 (12) Mast Kibs Checked

WEATHER: TEMPERATURE 114.00, WIND DIRECTION 114.00, ROAD 159.00

LAST CASING TUBING OR LINER: FUEL @ 8:00, RIG 203, BOILER 130

SHALE SHAKER(S): Loader

RENTALS/SERVICES: crew truck unit # R5053

CODE NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
OPER																										
MORN																										
DAY																										
EVE																										
TOTAL																										

NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26		
OPER																												
MORN																												
DAY																												
EVE																												
TOTAL																												

WELL TYPE: vertical  
 RE-ENTRY:  YES  NO  
 KB TO GROUND ELEV.: 5.00

DATE: 22-Feb-2005

OPERATOR: Devon Canada Ltd.  
 CONTRACTOR: Ensign Drilling Inc.

RIG MANAGER: Ryan Hildenbrand  
 RIG NO.: 55

PROVINCE: Yukon  
 CAMP:  YES  NO  
 RIG SAFETY DAYS: 256.00

NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26			
OPER																													
MORN																													
DAY																													
EVE																													
TOTAL																													

NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26				
OPER																														
MORN																														
DAY																														
EVE																														
TOTAL																														

CREW	SOC. INS. NO.	NAME	HRS	YES	NO	
Rig Manager		Ryan Hildenbrand	0.50	RH	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Driller		Joe Tedford	8.00	JT	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Derrickman		Mason Paas	8.00	MP	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Motorman		Peter Sunshine	8.00	PS	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Floorman		Tyler Fiveland	8.00	TF	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Floorman		Brad Stensrud	8.00	BS	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Leaseman		cam devries	8.00	cd	<input type="checkbox"/>	<input checked="" type="checkbox"/>

NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26				
OPER																														
MORN																														
DAY																														
EVE																														
TOTAL																														

NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26				
OPER																														
MORN																														
DAY																														
EVE																														
TOTAL																														

CREW	SOC. INS. NO.	NAME	HRS	YES	NO	
Rig Manager		Dave Pietrzykowski	1.00	DP	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Driller		Dwayne Ameson	12.00	DA	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Derrickman		Stewart Surridge	12.00	SS	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Motorman		Curtis Tucker	12.00	CT	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Floorman		cody good	12.00	cg	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Floorman		Troy Warawa	12.00	TW	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Leaseman		stephen sorenson	12.00	ss	<input type="checkbox"/>	<input checked="" type="checkbox"/>

NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26				
OPER																														
MORN																														
DAY																														
EVE																														
TOTAL																														

NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26				
OPER																														
MORN																														
DAY																														
EVE																														
TOTAL																														

CREW	SOC. INS. NO.	NAME	HRS	YES	NO	
Rig Manager		Ryan Hildenbrand	0.50	RH	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Driller		Joe Tedford	4.00	JT	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Derrickman		Mason Paas	4.00	MP	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Motorman		Peter Sunshine	4.00	PS	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Floorman		Tyler Fiveland	4.00	TF	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Floorman		Brad Stensrud	4.00	BS	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Leaseman		cam devries	4.00	cd	<input type="checkbox"/>	<input checked="" type="checkbox"/>





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Based on the CAODC ETS file standard

SPUD	RIG RELEASE	JOB NO. 136	A/E 5270083	DAILY CHECKS (1) Daily Wellhead Inspection (2) Detailed Inspection-Weekly (using checklists) (3) H2S Signs Posted (if required) (4) Well Licenses & Block Diagram Posted (5) Flare Log Status (6) BOP Daily Performance (7) Visually Inspect BOP's & Pipelines & Depressor Lines (8) Rig Site Health and Safety Meeting (min/2 weeks/month) (9) C.A.O.C.Rig Safety Inspection Checklists (once/monthly) (10) Litter Inspection Before Raising or Lowering (11) Crown Saver Checked (12) Motor Kils Checked	OPR. R.M.	DATE 21-Feb-2005	LAST CASING TUBING OR LINER	O.D. (mm)	MIN ID (mm)	Wgtm	MAKE	GRADE	NO. OF JOINTS	TOTAL (m)	KB TO CSG HEAD (m)	SET AT (m)
LICENCE NO. 11120	WELL NAME AND NO. Eagle Plains K-58	CONTRACTOR Ensign Drilling Inc.	UNIQUE ID: 300/K-58 66'07" 136'55"	(1) Rig Site Health and Safety Meeting (min/2 weeks/month) (2) C.A.O.C.Rig Safety Inspection Checklists (once/monthly) (3) Litter Inspection Before Raising or Lowering (4) Crown Saver Checked (5) Motor Kils Checked		RIG NO. 55	FUEL @ 8:00									
OPERATOR Devon Canada Ltd.						RIG 221	BOILER 165									
SURFACE LOCATION 60° 07' 34.8"						TEMPERATURE	DCOP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN ID (mm)	TOOL JT O.D. (mm)	THREAD TYPE	NO OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (m)
SIGNATURE OF OPERATORS REPRESENTATIVE Roland Benoit						CURRENT CONDITION	114.00	24.70	E-75	63.50	158.00	4-1/2 XH	145	PZ-8	Gardner Denver	203
						WIND DIRECTION	114.00	62.45	H.W.	72.03	158.00	4-1/2 XH	10	PZ-7	Gardner Denver	178
						ROAD	159.00	130.30	D.C.	64.00	159.00	4-1/2 XH	14			

TIME - HRS	OPR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTAL	SHALE SHAKER(S)	RENTALS/SERVICES	WELL TYPE vertical	RE-ENTRY	YES	NO	KB TO GROUND ELEV. 5.00		
	MORN	8.00																										8.00	NO. 2	TYPE NEW	Loader	DATE 21-Feb-2005					
	DAY																											8.00	SCREENS CHANGED	YES	NO	CONTRACTOR Devon Canada Ltd.					
	EVE																											4.00	TOP	110u	TOP	84m	OPERATOR Dave Pietrzykowski				
	TOTAL	8.00																										16.00	MIDDLE	MIDDLE	84m	PROVINCE Yukon	CAMP	YES	NO	RIG SAFETY DAYS: 255.00	

DRILLING ASSEMBLY										BIT RECORD										MUD RECORD										METERS DRILLED										TIME LOG										DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS										MORNING TOUR 0:00 TO 8:00										INJURIES									
NO. BIT O.D. (mm) LENGTH										BIT NO. SIZE IADC CODE MFG. TYPE SERIAL NO. JETS DEPTH OUT (m) DEPTH IN (m) TOTAL METERS DRILLED (m) TOTAL HOURS RUN										MUD TYPE WATER BASED OIL BASED TIME DENSITY (g/cm3) FUNNEL VISC. (100L) W.L. (cm3) pH										FROM TO ROTARY R.P.M. W.P.M. (1000) W.P.M. (1000) FROM TO										8:00 20:00 12:00 23										0:00 8:00 8:00 1- Rig Up & Tear Down, Mud loggers & Geo.										CREW SOC. INS. NO. NAME HRS YES NO																			
D.P. STANDS										CUTTING STRUCTURE										MUD MATERIAL ADDED										REDUCED PUMP SPEED										CIRCULATION PRESSURE (KPa) PUMP NO. 1 PUMP NO. 2										DRILLER SIGNATURE										RIG MANAGER Ryan Hildenbrand																			
D.P. SINGLES										HOLE CONDITION										SOLIDS CONTROL										DEVIATION SURVEY										OPERATOR FUEL										DRILLER Dave Pietrzykowski																													
KELLYDOWN										HOLE DRAG										DEPTH (m) DEVIATION (o) DIRECTION										NOTES										DRIVER A										DRIVER B																													
TOTAL										TORQUE AT BOTTOM										HOURS RUN										OPERATOR FUEL										DRIVER A										DRIVER B																													
WT. OF DC										FILL ON BOTTOM (m)										MATERIAL OVERFLOW UNDERFLOW										MAX EXP. HOOKLOAD										SAFETY TOPIC										M.A.C.P.										CREW SAFETY DAYS										DRIVER B									

DRILLING ASSEMBLY										BIT RECORD										MUD RECORD										METERS DRILLED										TIME LOG										DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS										DAY TOUR 8:00 TO 20:00										INJURIES									
NO. BIT O.D. (mm) LENGTH										BIT NO. SIZE IADC CODE MFG. TYPE SERIAL NO. JETS DEPTH OUT (m) DEPTH IN (m) TOTAL METERS DRILLED (m) TOTAL HOURS RUN										MUD TYPE WATER BASED OIL BASED TIME DENSITY (g/cm3) FUNNEL VISC. (100L) W.L. (cm3) pH										FROM TO ROTARY R.P.M. W.P.M. (1000) W.P.M. (1000) FROM TO										8:00 20:00 12:00 23										8:00 20:00 12:00 23 W.o. well license										CREW SOC. INS. NO. NAME HRS YES NO																			
D.P. STANDS										CUTTING STRUCTURE										MUD MATERIAL ADDED										REDUCED PUMP SPEED										CIRCULATION PRESSURE (KPa) PUMP NO. 1 PUMP NO. 2										DRILLER SIGNATURE										RIG MANAGER Dave Pietrzykowski																			
D.P. SINGLES										HOLE CONDITION										SOLIDS CONTROL										DEVIATION SURVEY										OPERATOR FUEL										DRILLER Dwayne Ameson																													
KELLYDOWN										HOLE DRAG										DEPTH (m) DEVIATION (o) DIRECTION										NOTES										DRIVER A										DRIVER B																													
TOTAL										TORQUE AT BOTTOM										HOURS RUN										OPERATOR FUEL										DRIVER A										DRIVER B																													
WT. OF DC										FILL ON BOTTOM (m)										MATERIAL OVERFLOW UNDERFLOW										MAX EXP. HOOKLOAD										SAFETY TOPIC										M.A.C.P.										CREW SAFETY DAYS										DRIVER B									

DRILLING ASSEMBLY										BIT RECORD										MUD RECORD										METERS DRILLED										TIME LOG										DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS										EVENING TOUR 20:00 TO 24:00										INJURIES									
NO. BIT O.D. (mm) LENGTH										BIT NO. SIZE IADC CODE MFG. TYPE SERIAL NO. JETS DEPTH OUT (m) DEPTH IN (m) TOTAL METERS DRILLED (m) TOTAL HOURS RUN										MUD TYPE WATER BASED OIL BASED TIME DENSITY (g/cm3) FUNNEL VISC. (100L) W.L. (cm3) pH										FROM TO ROTARY R.P.M. W.P.M. (1000) W.P.M. (1000) FROM TO										20:00 0:00 4:00 23										20:00 0:00 4:00 23 W.o. well license										CREW SOC. INS. NO. NAME HRS YES NO																			
D.P. STANDS										CUTTING STRUCTURE										MUD MATERIAL ADDED										REDUCED PUMP SPEED										CIRCULATION PRESSURE (KPa) PUMP NO. 1 PUMP NO. 2										DRILLER SIGNATURE										RIG MANAGER Ryan Hildenbrand																			
D.P. SINGLES										HOLE CONDITION										SOLIDS CONTROL										DEVIATION SURVEY										OPERATOR FUEL										DRILLER Joe Tedford																													
KELLYDOWN										HOLE DRAG										DEPTH (m) DEVIATION (o) DIRECTION										NOTES										DRIVER A										DRIVER B																													
TOTAL										TORQUE AT BOTTOM										HOURS RUN										OPERATOR FUEL										DRIVER A										DRIVER B																													
WT. OF DC										FILL ON BOTTOM (m)										MATERIAL OVERFLOW UNDERFLOW										MAX EXP. HOOKLOAD										SAFETY TOPIC										M.A.C.P.										CREW SAFETY DAYS										DRIVER B									









**Final Well Report**

**Devon Canada Corporation**

**Devon Eagle Plains K-58**

**Grid: 66 10'N  
136° 45' W**

**Yukon License: # 1120**

**DATE: June 09, 2005  
Prepared by David Quinn P. Eng.**

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*Appendices may be used to give details on the subjects below.*

- Locality Map**
- Well Summary**
- Time Distribution**
- Deviation and Drift Records**
- Bit Record**
- Stick Diagram, "Pre-Drilled"**



# **I. INTRODUCTION**

## **1.1 Summary**

Devon Canada Corporation drilled a 1278 mMD exploratory well at location designated as Devon Eagle Plains K-58. The well fulfilled a work commitment to the Yukon Government that was originally made by Anderson Exploration Ltd. (predecessor company) in 1999. The well was spudded on February 22<sup>nd</sup>, 2005 and finished drilling operations on April 3<sup>rd</sup>, 2005. The well was found to be non-commercial hydrocarbon bearing and was abandoned.

The K-58 well is located approximately 33.5 km southwest of the Hamlet of Eagle plains, YT on the Dempster Highway and southeast of the highway by 10 km.

Devon Canada Canada was the operator company with no other working interest owners. Ensign Drilling Inc. was contracted for the drilling of this project and taken from Devon's contracted fleet for the 2005 winter program. The rig was moved from its last location in the Tommy Lakes region of NE British Columbia to Eagle Plains. The rig is rated as a 2600 m , double with 520 KW drawworks powered by 600 kw diesel prime movers and two triplex pumps, 560 & 410 KW.

The primary objective of this well was to drill and test for the potential gas reserves in the Chance sands and secondary objectives in the Parkin, Jungle Creek, Canoe formations as indicated on a 2-D seismically-identified structural high.

Construction of the drilling location started January 27, 2005. The access road was built along an existing seismic line. Water was hauled 50 km from the Eagle River and the lease and access road was essentially frozen in with marginal ground disturbance. Extremely cold weather during the construction phase (-40°C), created difficulty saturating the snow cover prior to freezing which caused some water run-off and consequently a higher volume of water consumption occurred.

Ensign Rig #55 was broken down to legal widths / weight loads for transport to the Yukon, February 8 through 12, 2005. The 2200 km move to location commenced February 13<sup>th</sup> with all rig components at location by February 17, 2005. The well was spudded February 22, 2005 after receiving well licence #1120 from the Yukon Energy Mines and Resources.

The well was drilled to 1278m by March 28, 2005. The total drilled depth was short of the original prognosis. Due to spring break up, continued drilling could have jeopardized the removal of the rig from the location. Although the programmed total depth was not achieved the primary zones of interest were exposed.

Two logging runs were performed by Schlumberger evaluating the well from total depth to surface casing, both porosity and resistivity logs were obtained.

A total of five closed chamber drill stem tests were conducted on the zones designated as Canoe sand (S-1), S3A-1, S3A-2, S3A-3 and the Hart River (S3B). All tests failed to yield commercial levels of hydrocarbons.

The well was abandoned with the placement of cement plugs. Casing bowl removed and casing stub cut below ground level.

1.2 Locality Map: See Appendices



10. Difficulties and Delays: .....

Lost Circulation

The surface hole (311m) was drilled with a divertor system to 95m encountering and under pressure Parkin Sand member. The divertor system was employed in the event that the Parkin Sand was overpressured.

Loss of fluid circulation occurred through the interval 95 to 118 meters. A total of 5 plugs were placed to isolate the zone.

Deterioration of the Pad Location

The original plan called for the use of an insulated conductor barrel to be set by rathole rig prior to moving onto the location. However, the limitation of the equipment employed by the Inuvik based contractor precluded the use of the larger size insulated conductor barrel. The decision to employ a conventional barrel was based on the belief that the drilling time would be minimal for this well.

After surface casing was set and drilling to 527m, the ice pad under the rig adjacent to the cribbing had melted / evaporated. This occurred in spite of Devon's no rig washing policy and heat deflection (away from the ground) from the BOP heaters.

The pad had melted under the rig mats and threatened to melt under the rig substructure beams making the rig unstable.

Devon elected to fill the cavity by spray foam insulation provided by a contractor from Inuvik. Once this was done no additional pad deterioration occurred.

Deviation Control

The wellbore built out 3° deviation on surface hole. Once the main hole was drilled to 424 mKB, the deviation increased to 4.25°. Drilling continued to 527mKB in a controlled fashion, decreasing weight and increasing rotary speed. A low speed high torque motor with MWD equipment was employed to finish the well. The inclination angle was allowed to build to 6° at total depth.

11. Total Well Cost: ..... Field Estimate: \$ 8.5 MM CDN  
(includes construction, drilling, evaluation and reclamation)

12. Deviated Wells Require Bottom Hole Co-ordinates:

Bottom hole location from well center.

North: ..... 35.05 meters  
East: ..... 36.44 meters  
Azimuth ..... 48.98 degrees

### III. SUMMARY OF DRILLING AND RELATED OPERATIONS

1. Elevations:

Ground:..... 599.76 (m above sea level)  
KB: ..... 604.76 (m above sea level)  
KB To Casing Flange:..... Not Applicable (KB to CF)

2. Total Depth:

FTD: ..... 1278.0 mKB  
TVD: ..... 1276.0 mKB

3. Date and Hour Spudded:.....2005/02/22, 2145 hrs

4. Date Drilling Completed:.....2005/03/28  
(Rig initiates completion activity)

5. Date of Drilling Rig Release:.....2005/04/03, 2400 hrs.

6. Well status: ..... Wellbore Abandoned

7. Hole Sizes and Depths:

Conductor Hole: <sup>162</sup> 406 mm to ..... 20 mKB  
Surface: 311.2 mm to ..... 362 mKB  
Main Hole: 222.2 mm to ..... 1278 m KB

8. Casing and Cementing Record:

See DFW (Daily Well Reports) ..... for detailed reports:

Conductor: <sup>406</sup> 762 mm to . ..... 20 mKB  
Sanjel cementing company

Surface Casing: 244.5 mm to ..... 360.5 mKB  
244.5 mm, 53.58 kg/m, J-55, Rge 3, LT&C at 360.5 m  
Cemented with: Lead 5.8 m<sup>3</sup> (7.7 t) Artic cement, 1885 kg/m<sup>3</sup>  
Tail: 13.6 m<sup>3</sup> (15.5 tonne) Expandomix 1770 kg/m<sup>3</sup>

Production Casing;

Not applicable, wellbore abandoned

Wellhead:

Casing Bowl Size:

CWC-SLIPLOC 279mm, 21MPa x 244 mm

Wellhead Make:

Vetco Gray

Status:

Casing Bowl removed

9. Sidetracked Hole:

Not Applicable

11. Drilling Fluid:

Conductor Hole:

Drilled Dry with Conductor Rig

Surface Hole:

Gel Chemical system

Properties:

Viscosity: 50 sec/L

Density: 1170 kg/m<sup>3</sup>

PH: 11

Water loss: -

Solids: 5 - 10 %

Gels: 5 / 10

Filter Cake: -

PV / YP: 15 / 6

Main:

Gel chemical system

Properties:

Viscosity: 60 - 70 sec/L

Density: 120 - 1300 kg/m<sup>3</sup>

PH: 10 - 11

Water loss: 6 - 7.5 ml

Solids: 7 to 11 %

Gels: 3 / 6

Filter Cake: 1 mm

PV / YP: 36 / 10

12. Fishing Operations:

The fishing operations occurred on this well. The drill collars failed at 486 and 527 mKB. The fishes were recovered on single runs with minimal time delays. Devon contracted Baker Oil Tools to provide a fishing package on site due to the remoteness of the well. A complete replacement drill collar string was bought from Edmonton and the well was drilled without further incident.

13. Time Distribution:..... See Appendices

14. Deviation Surveys: See Appendices

15. Well Kicks and Well Control Operations: .....Not Applicable

16. Formation Leak Off Tests:

Depth:	365 m
Fluid Density:	1150 kg/m <sup>3</sup>
Applied Pressure:	2,500 kPa
Hydrostatic Press.	4118 kPa
Casing Setting Depth:	362 mKB
Leak-off test	18.3 kPa /m

17. Drill Stem Test Summary:

DST # 1, Closed Chamber Test		
Interval:	1193.0 to 1203.0 mKB	
Formation:	S-1, Canoe sand	
IHP	15,561	kPa
PFI	508	kPa
PFF	518	kPa
ISI	10,306	kPa
2 <sup>nd</sup> FI	551	kPa
2 <sup>nd</sup> FF	582	kPa
FSI	9564	kPa
FHP	15558	kPa

Recovery; See DST # 4



DST # 2, Closed Chamber Test, Re-set

Interval: 1041.0 to 1051.0 mKB

Formation: S3A-1 sand

IHP	13,616	kPa
PFI	807	kPa
PFF	959	kPa
ISI	2,533	kPa
2 <sup>nd</sup> FI	1,033	kPa
2 <sup>nd</sup> FF	1,304	kPa
FSI	1,956	kPa
FHP	13,575	kPa

Recovery; See DST # 4

DST # 3, Closed Chamber Test, Re-set

Interval: 997.0 to 1007.0 mKB

Formation: S3A-2 sand

IHP	12,824	kPa
PFI	1,808	kPa
PFF	2,350	kPa
ISI	8,865	kPa
2 <sup>nd</sup> FI	2,488	kPa
2 <sup>nd</sup> FF	3,450	kPa
FSI	8,766	kPa
FHP	12,861	kPa

Recovery; See DST # 4

DST # 4, Closed Chamber Test, Re-set

Interval: 985.0 to 995.0 mKB

Formation: S3A-3 sand

IHP	12,860	kPa
PFI	5,295	kPa
PFF	6,174	kPa
ISI	8,893	kPa
2 <sup>nd</sup> FI	6,552	kPa
2 <sup>nd</sup> FF	8,838	kPa
FSI	8,893	kPa
FHP	12,832	kPa

Recovery; tests 1 – 4 combined, 815 m of “gasified brackish water with mud on top”, field salinity 7000.

DST # 5, Closed Chamber Test

Interval:	427.0 to 453.0	mKB
Formation:	S3B,Hart River	sand
IHP	5,730	kPa
PFI	1,031	kPa
PFF	1,482	kPa
ISI	3,131	kPa
2 <sup>nd</sup> FI	1,623	kPa
2 <sup>nd</sup> FF	1,981	kPa
FSI	2,474	kPa
FHP	6,644	kPa

Recovery; 130.0 m of "slightly gasified drilling fluid", field salinity 3000

18. Abandonment Plugs: A total of seven plus were set in the wellbore to abandoned the well.

Plug # 1

Interval (KB):	1278 to 1068
Cement Type:	Class G, 0:1:0, 0.3% CFL-3, 0.5% SPC-2, 1900 kg/m <sup>3</sup>
Slurry Volume:	6 m <sup>3</sup>
Tonnes:	7.8

Plug # 2

Interval (KB):	1038 to 828
Cement Type:	Class G, 0:1:0, 0.3% CFL-3, 0.5% SPC-2, 1900 kg/m <sup>3</sup>
Slurry Volume:	6 m <sup>3</sup>
Tonnes:	7.8

Plug # 3

Interval (KB):	796 to 654
Cement Type:	Class G, 0:1:0, 0.3% CFL-3, 0.5% SPC-2, 1900 kg/m <sup>3</sup>
Slurry Volume:	6 m <sup>3</sup>
Tonnes:	7.8

Plug # 4

Interval (KB):	625 to 475
Cement Type:	Class G, 1:1:2, 0.5% CFR, 1646 kg/m <sup>3</sup>
Slurry Volume:	6.7 m <sup>3</sup>
Tonnes:	7.0

Plug # 5  
Interval (KB): 464 to 398  
Cement Type: Class G, 1:1:2, 0.5% CFR, 1646 kg/m<sup>3</sup>  
Slurry Volume: 6.7 m<sup>3</sup>  
Tonnes: 7.0

Plug # 6  
Interval (KB): 398 to 175  
Cement Type: Expando mix, 3% LCCI, 1646 kg/m<sup>3</sup>  
Slurry Volume: 11.44 m<sup>3</sup>  
Tonnes: 12.7

Plug # 7  
Interval (KB): 170 to Surface  
Cement Type: Glacial 0.3% CFL-3, 0.5% SPC-2  
Slurry Volume: 6 m<sup>3</sup>  
Tonnes: 7.8

Casing stub dug down 1.5 m, cut and capped with welded plate.

19. Completion Record: No completion took place, wellbore was abandoned.

## GEOLOGIC INFORMATION

**Geological Summary: The two primary zones are discussed**

### **PRIMARY ZONE:**

#### **CHANCE SAND 998.0 m MD (-393.7 m SS)**

The Chance Sand is the porous section within the S3A sand of the Hart River Formation. The S3A sand top is at 976m, -371m subsea and the base was at 1034m, as described from samples. The S3A is light grey to salt and pepper with a grain size of very fine to upper coarse. In the low porosity sections, the coarse grained component is missing. The grains are poorly sorted and subrounded to rounded. The tight sand sections are mainly 60% quartz grains, 10% dark minerals and 30% calcite cement, but the Chance sand and other porosity zones are 75% quartz, 15% dark minerals and 10% calcite cement. Through the S3A sand there is minor amounts of a grey chert. In the Chance sand, rare light brown oil staining was seen and 3% to 9% intergranular porosity. A yellow brown fluorescence and weak white massive oil cut was one of the better shows. The rest are poor shows mainly seen as spotted yellow brown fluorescence and white halo cut. There was a slight gas response above the background readings in the sand for the Chance sand porosity section.

**CONCLUSION:** The Chance sand shows some economic potential.

### **SECONDARY ZONE:**

#### **PARKIN SAND 92.0 m MD (512.3 m SS)**

The Parkin Sand is light brown to light grey in colour with minor red brown colouration. The sand is composed of 50% quartz and grains, 25% chert pebbles, 10% other dark minerals, 15% calcite cement and iron stained clay matrix. The grains are fine to coarse in size, poorly sorted, and subangular to subrounded. In some of the samples, there is a conglomerate portion, where the sand grades to a pebble conglomerate. Porosity ranged from 6% to 12% intergranular porosity which is controlled by the sand since the conglomerate is matrix supported. No oil shows were observed and no gas readings beyond the background were seen. The Parkin Sand was a lost circulation zone where five cement plugs had to set. Sample quality for this zone was poor due to drilling cement fragments and the lost circulation of material recovered. Also, the 100m, 110m and 115m samples are missing due to drilling ahead without returns. There was no gas date where there were no gas returns.

**CONCLUSION:** The Parkin sand shows no economic potential.

**Formation tops**

<u>FORMATION</u>	<u>PROGNOSED(m)</u>		<u>SAMPLE(m)</u>		<u>LOG TOPS(m)</u>			
	<u>MD</u>	<u>TVD</u>	<u>MD</u>	<u>TVD</u>	<u>SS</u>	<u>MD</u>	<u>TVD</u>	<u>SS</u>
Fish Branch		0.0	19.0	585.3		19.5	584.8	
Parkin Shale	1.3	1.8	52.5	551.8		48.0	556.3	
Parkin Sand	20.3	20.8	92.0	512.3		95.0	509.3	
Whitestone	50.3	50.8	118.0	486.3		116.7	487.6	
Jungle Creek SS	220.3	220.8	229.0	375.3		231.2	373.1	
Blackie	252.3	252.8	259.5	344.8		258.7	345.6	
Hart River	388.3	388.8	437.0	167.3		441.2	163.1	
S3A	763.3	763.8	882.0	-277.2		883.6	-279.3	
Chance	875.3	875.8	998.0	-393.2		998.0	-393.7	
S1			1183.5	-579.2		1183.3	-579.0	
Canoe	1087.3	1087.8						
Ford Lake	1324.3	1324.8						
TD, undefined	1374.3	1374.8	1278.0	-673.2		1278.0	-673.7	

## **WELL EVALUATION**

### **Coring Record**

No cores were cut in this well.

### **Logging Program**

Logging company: Schlumberger.

Logs run:

Runs #1 and #2, March 28, 2005

Platform Express: Compensated Neutron Dual Lithology Density Log

Platform Express: Array Induction – RXO Log

Platform Express: Micro – Resistivity Log

Platform Express: Resistivity – Porosity (half scale log)

High Resolution Laterlog Array

Dipole Shear Sonic Image Log

Cement Volume Log

Gas detection log was run from surface to TD.

No VSP's were carried out on this well.

## **V. ENVIRONMENTAL WELL ANALYSIS**

Environmental Details will be addressed in a separate report.

**VI. APPENDICES TO FINAL WELL REPORT**

**Locality Map  
Well Summary  
Time Distribution  
Deviation and Drift Records  
Bit Record  
Stick Diagram, "pre-drilled"**





## WELL SUMMARY AND FORMATION EVALUATIONS

### DEVON EAGLE PLAINS 300K586610136450

The Devon Eagle Plains K58 is a wildcat exploration well in the Yukon Territory that was drilled to evaluate the potential for future development of the area. The well was spudded on February 22, 2005 at 21:45 hours and drilling was completed, March 28, 2005 at 12:15 hours. The target zones for this well are the Parkin Sand (secondary) and Hart River (secondary) with the Chance sand (primary). The surface hole was drilled with 311mm bits to a depth of 362m and 244.5mm casing was then run. The main hole was drilled using 222mm tri-cone bits to a total depth of 1278m.

At spud, the problem with Chimo EDR communicating with Continental Labs mudlogger was corrected. The hole depth recorder would not function from surface to 53m depth. Chimo was able to correct the problem remotely. On February 24, there was a Chimo component failure and again drilling continued without hole depth data. Both times, the crews marked meters on Kelly and recorded the drilling times manually. The Chimo drill recorder was repaired at 140m.

On surface hole, circulation was lost at 95m, and multiple lost circulation pills could not stop the volume losses. Therefore, the well was drilled ahead blind without returns to 100m to get through the lost circulation zone and the crews ran cement plugs. Fluid losses continued after the first plug, so a second cement plug was set. After drilling out the cement plugs, the rig was able to drill ahead to 106m with partial returns so the 105m sample was caught. At the connection at 106.3m, all circulation was lost while working the pipe and drilling continued ahead blind to 115m where another cement plug was run to seal off the Parkin Sand. After drilling out plug #3, drilling proceeded to 142m where another lost circulation zone was penetrated. While drilling with partial returns to about 136m, the crews caught samples from 115m to 135m. Due to the continued loss of circulation at 136m, the fourth cement plug was required. On the trip out to run plug #4, the hole was tight and when running in with open ended drill pipe, the well bridged off at 28m. Crews attempted to wash past the bridge with an open ended drill string but failed. Remaining operations were concluded as a result of fluid losses at the Parkin sandstone. An open ended assembly was run to bottom and plugs 4 and 5 were set. Drilling resumed without incident and the surface hole was drilled to 362m where surface casing was set. Surface hole drilling was completed on March 3, 2005 at 9:15 hours.

Drill out of surface casing shoe occurred at 21:30 hours on March 6, 2005. The main hole was drilled using 222mm bits. While drilling the main hole, the drill string parted at 486.7m. When tripped out, it was found that it had parted in the drill collars. Fishing for the rest of the collars began using an overshot tool and it was able to capture the fish on the first attempt. The drill string parted a second time at 527.2m, also as a result of the collars twisting off. The second fish was four collars and the bit. The second fish was recovered on the first attempt. After the second fish was recovered, it was decided that all the heavy weight drill pipe and drill collars would be inspected before drilling continued. One joint of heavy weight drill pipe, four drill collars and the jars failed the inspection, therefore drilling was placed on hold until replacements arrived. Also, it was decided that Omni directional services would be used to control the deviation problem. When the directional tools and new collars arrived they were made up and the rig waited on orders to drill ahead. The jars arrived later that same day, and a trip was done to put them in the drill string. While making up the directional tools, a spray foam insulation unit came out and insulated the cellar to stop the permafrost collapse in the substructure, it was also injected under the #1 pump.

The next drilling delay was for repairs to the shaker including some time spent waiting for parts. The weld on the first repair did not last. The first breakdown happened at 734m and the second at 745m where drilling was suspended until parts arrived and were installed. During both breakdowns, the rig could not circulate so the drill string was tripped into the surface casing until the shaker was fixed.

On March 24, 2005, the Chimo pit volume and return flow failed and about two hours were needed to repair the system. At 1102.5m, a survey was taken and an unexpected inclination was recorded. The well had increased in deviation while rotating from about 1000m, so two slides were done to correct the deviation. When the survey below the first slide displayed an increase in deviation when a decrease was expected, a trip was done to determine whether there was a problem with the directional tools. No problems were noted.

Drilling continued with two more bit trips. On the afternoon of Monday, March 28, 2005, Devon decided that drilling would end and drilling was halted at 1278.0m. After a wiper trip, the drill string was tripped out to run wireline logs with Schlumberger. The logging program was four runs. Run #1 was Schlumberger's PEX-LDT tool, the data was transmitted to Calgary during run #2 which was, HRLA-DSI tools. On March 29, 2005, while finishing logging run #2, Devon was to select points for the sidewall coring on run #3. The sidewall coring program and FMI log were cancelled. From the logging information and geological samples, Devon decided that some drill stem tests would be run. The run was eventually abandoned.

Samples were not caught due to lack of returns while drilling ahead blind in lost circulation zones at 100m, 110m, 115m & 140m on surface hole. Samples were collected below the conductor barrel at 20.0 meters to total depth for Devon Canada Ltd. and the Yukon government. A Continental Labs Ltd. gas chromatograph was used from 14m to Total Depth.



**Time Distribution Summary**

Legal Well Name: DEVON EAGLE PLAINS K-58  
 Common Well Name: DEVON EAGLE PLAINS K-58  
 Event Name: ORIG DRILLING Start: 02/08/2005 Spud Date: 02/02/2005  
 Contractor Name: ENSIGN DRILLING Rig Release: 04/03/2005 End: 04/03/2005  
 Rig Name: ENSIGN DRILLING Rig Number: 55

Code	Operation	Total Hours	Percentage
01	MOVING	35.75	3.22
02	RIG UP	32.00	2.88
03	RIG DOWN	38.50	3.46
10	DRILLING	136.25	12.26
11	DIRECTIONAL DRILLING	235.25	21.17
16	SURVEY	15.00	1.35
17	C & C DRILLING	57.00	5.13
20	TRIPS	118.00	10.62
21	WASH TO BOTTOM	1.00	0.09
22	HANDLING TOOLS	17.75	1.60
31	WELL CONTROL	0.50	0.04
40	REAMING	18.75	1.69
45	FISHING	35.50	3.19
50	RIG SERVICE	25.75	2.32
51	SLIP & CUT	0.50	0.04
52	RIG REPAIR	23.25	2.09
53	3RD PARTY REPAIR	3.00	0.27
60	LOG	11.00	0.99
61	DST	33.00	2.97
70	RUNNING CASING / LINER	7.75	0.70
71	C & C FOR CEMENT	2.25	0.20
72	MIX AND DISPLACE	2.25	0.20
73	WAITING ON CEMENT	33.75	3.04
74	DRILL OUT CEMENT	31.50	2.83
75	BOP ACT-PT & NIPPLE UP	32.00	2.88
76	PRESSURE TEST CASING	3.50	0.31
79	PLUG & ABANDON	25.75	2.32
81	WAITING ON ORDERS	2.25	0.20
82	WAITING ON DAYLIGHT	20.00	1.80
83	WAITING OTHER	89.00	8.01
90	SAFETY MEETING	21.75	1.96
91	BOP DRILL	2.00	0.18

**TOTAL 1,111.50 100.00**

# Omni Drilling Technologies Inc.

## Standard Survey Report

Company: DEVON CANADA CORPORATION	Date: 6/7/2005	Time: 11:48:48	Page: 1
Field: Eagle Plains	Co-ordinate(NE) Reference: Site: K-58, True North		
Site: K-58	Vertical (TVD) Reference: KB Elevation 604.8 above Mean Sea Level		
Well: Devon Eagle Plains	Section (VS) Reference: Well (0.0E, 0.0N, 0.0Az)		
Wellpath: Omni Job# 702	Survey Calculation Method: Minimum Curvature		

Field: Eagle Plains		
Map System: Canadian UTM Zones (NAD83/GRS80)	Map Zone: UTM Zone 10, North 126W to 120W	
Ellipsoid: WGS 1984	North Reference: True	
Sys Datum: Mean Sea Level	Geomagnetic Model: igr2000	

Site: K-58		
Site Position: From: Local Only	Northing: 0.00 m	Latitude: m
Position Uncertainty: 0.00 m	Easting: 0.00 m	Longitude: m
Water Depth: 0.00 m		Magnetic Declination: 0.00 deg
		Grid Convergence: deg

Well: Devon Eagle Plains		
Well Position: +N/S 0.00 m	Northing: m	Latitude: m
From Slot: +E/W 0.00 m	Easting: m	Longitude: m
Position Uncertainty: 0.00 m		

Wellpath: Omni Job# 702			Drilled From: Surface
Vertical Section: +N/S 0.00 m			Tie-on Depth: m
From: Well +E/W 0.00 m			V. Section Direction: 0.00 deg
Measured Depth Reference: KB Elevation	604.76 m	Above System Datum: Mean Sea Level	

Survey: Directional Surveys	Start Date: 6/7/2005
Company: Omni Drilling Technologies Inc.	Engineer: Roopa Dattani
Tool:	

Survey: Directional Surveys

MD	Incl	Azim	TVD	+N/S	+E/W	VS	DLS	Build	Turn	Tool/Comment
m	deg	deg	m	m	m	m	deg/30m	deg/30m	deg/30m	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	
360.50	0.00	0.00	360.50	0.00	0.00	0.00	0.000	0.000	0.000	
369.00	2.60	52.90	369.00	0.12	0.15	0.12	0.176	0.176	0.000	
513.90	4.00	60.70	513.65	4.57	7.18	4.57	0.304	0.290	1.615	
528.35	4.20	57.70	528.07	5.10	8.07	5.10	0.609	0.415	-6.228	
537.95	4.20	58.90	537.64	5.48	8.66	5.48	0.183	0.000	-2.500	
547.12	4.60	54.90	546.78	5.88	9.24	5.88	1.401	1.309	-6.543	
556.29	4.60	52.90	555.92	6.31	9.84	6.31	0.525	0.000	-6.543	
565.75	4.30	48.80	565.36	6.77	10.41	6.77	1.368	-0.951	-12.685	
575.38	3.70	43.30	574.96	7.24	10.89	7.24	2.228	-1.869	-17.445	
585.18	3.60	36.60	584.74	7.71	11.28	7.71	1.340	-0.306	-20.510	
594.96	3.80	33.50	594.50	8.23	11.65	8.23	0.868	0.613	-9.509	
604.59	3.90	33.30	604.11	8.77	12.01	8.77	-0.314	0.312	-0.623	
614.26	3.80	33.40	613.76	9.30	12.36	9.30	0.931	-0.931	0.310	
623.48	3.10	34.70	622.96	9.74	12.66	9.74	1.645	-1.627	4.230	
632.83	2.80	33.90	632.30	10.14	12.93	10.14	0.972	-0.963	-2.567	
642.40	2.70	32.70	641.86	10.52	13.18	10.52	0.362	-0.313	-3.762	
651.57	2.70	28.70	651.02	10.90	13.40	10.90	0.616	0.000	-13.086	
661.33	2.60	27.20	660.77	11.29	13.62	11.29	0.374	-0.307	-4.611	
670.86	2.50	27.60	670.29	11.67	13.81	11.67	0.320	-0.315	1.258	
680.67	2.40	28.30	680.09	12.04	14.01	12.04	0.319	-0.306	2.141	
689.87	2.50	27.00	689.28	12.39	14.19	12.39	0.373	0.326	-4.239	
698.04	2.80	21.80	698.44	12.78	14.36	12.78	1.257	0.981	-17.012	
708.61	3.10	22.20	708.00	13.23	14.55	13.23	0.943	0.940	1.254	
718.30	3.50	21.50	717.67	13.75	14.75	13.75	1.245	1.238	-2.167	
727.78	3.40	26.10	727.14	14.27	14.98	14.27	0.931	-0.316	14.557	

# Omni Drilling Technologies Inc.

## Standard Survey Report

Company: DEVON CANADA CORPORATION	Date: 16/7/2005	Time: 11:48:48	Page: 2
Field: Eagle Plains	Co-ordinate(NE) Reference: Site: K-58, True North	KB Elevation 604.8 above Mean Sea Level	
Site: K-58	Vertical (TVD) Reference: Well (0.0E, 0.0N, 0.0Az)	Survey Calculation Method: Minimum Curvature	
Well: Devon Eagle Plains			
Wellpath: Omni Job# 702			

Survey: Directional Surveys

MD m	Incl deg	Azim deg	TVD m	+N/S m	+E/W m	VS m	DLS deg/30m	Build deg/30m	Turn deg/30m	Tool/Comment
737.52	3.10	29.40	736.86	14.76	15.24	14.76	1.089	-0.924	10.164	
747.17	2.50	29.40	746.50	15.17	15.47	15.17	1.865	-1.865	0.000	
756.87	2.10	26.90	756.19	15.51	15.66	15.51	1.275	-1.237	-7.732	
768.08	1.80	20.20	765.40	15.80	15.78	15.80	1.226	-0.977	-21.824	
775.86	1.70	8.00	775.17	18.09	15.86	18.09	1.181	-0.307	-37.423	
785.03	1.70	0.40	784.34	18.36	15.88	18.36	0.737	0.000	-24.864	
794.30	1.70	354.70	793.60	16.63	15.86	16.63	0.547	0.000	-18.447	
804.12	1.70	358.10	803.42	18.92	15.84	18.92	0.127	0.000	-4.277	
813.72	1.70	356.30	813.02	17.21	15.82	17.21	0.019	0.000	10.625	
823.33	1.70	355.40	822.62	17.49	15.80	17.49	0.083	0.000	-2.810	
832.50	1.60	354.60	831.79	17.76	15.78	17.76	0.336	-0.327	-2.617	
841.70	1.50	355.40	840.98	18.00	15.76	18.00	0.334	-0.326	-2.809	
850.93	1.40	354.40	850.21	18.24	15.74	18.24	0.335	-0.325	-3.250	
860.36	1.50	354.00	859.64	18.47	15.71	18.47	0.320	0.318	-1.273	
870.07	1.40	354.10	869.35	18.72	15.69	18.72	0.309	-0.309	0.309	
879.27	1.30	346.20	878.54	18.93	15.65	18.93	0.888	-0.326	-25.761	
888.98	1.20	343.70	888.23	19.13	15.60	19.13	0.353	-0.310	-7.740	
898.62	1.00	349.50	897.89	19.31	15.55	19.31	0.710	-0.621	-18.012	
908.29	1.10	353.40	907.56	19.49	15.53	19.49	0.381	0.310	-12.099	
918.02	1.10	349.40	917.29	19.67	15.50	19.67	0.237	0.000	-12.333	
927.45	1.30	352.10	926.71	19.87	15.47	19.87	0.681	0.636	-8.590	
936.97	1.40	354.50	936.23	20.09	15.44	20.09	0.362	0.315	-7.563	
946.39	1.40	2.40	945.65	20.32	15.43	20.32	0.614	0.000	-25.159	
956.21	1.20	4.00	955.47	20.54	15.45	20.54	0.621	-0.611	-4.868	
965.78	1.20	15.70	965.03	20.74	15.48	20.74	0.767	0.000	-36.677	
975.21	1.10	26.00	974.46	20.92	15.55	20.92	0.729	-0.318	-32.768	
984.40	1.10	26.70	983.65	21.08	15.63	21.08	0.044	0.000	-2.285	
993.68	1.30	34.80	992.93	21.24	15.73	21.24	0.851	0.647	-26.509	
1003.02	1.30	35.20	1002.27	21.41	15.85	21.41	0.022	0.000	0.964	
1012.29	1.70	37.10	1011.53	21.61	15.89	21.61	1.304	1.294	-6.149	
1021.40	1.90	41.00	1020.84	21.83	16.17	21.83	0.772	0.659	-12.843	
1030.78	2.20	40.80	1030.01	22.09	16.39	22.09	0.960	0.959	-0.840	
1040.16	2.20	41.20	1039.38	22.36	16.63	22.36	0.049	0.000	-1.279	
1049.37	2.00	51.20	1048.59	22.59	16.87	22.59	1.357	-0.651	-32.573	
1058.79	2.10	63.70	1058.00	22.77	17.15	22.77	1.456	0.318	-39.809	
1068.04	2.60	64.00	1067.24	22.94	17.51	22.94	2.271	2.270	-0.973	
1077.44	3.50	67.20	1076.63	23.16	17.98	23.16	2.303	2.234	-10.213	
1086.58	4.30	65.80	1085.75	23.41	18.55	23.41	2.644	2.626	-4.595	
1096.09	5.10	65.50	1095.23	23.73	19.26	23.73	2.525	2.524	-0.946	
1105.42	5.80	66.10	1104.51	24.09	20.07	24.09	2.258	2.251	-1.929	
1114.60	6.30	66.00	1113.64	24.48	20.95	24.48	1.634	1.634	-0.327	
1123.99	6.20	64.10	1122.98	24.91	21.88	24.91	0.734	-0.319	-6.070	
1133.09	6.10	62.70	1132.02	25.35	22.75	25.35	0.594	-0.330	-4.615	
1142.66	6.00	59.90	1141.54	25.83	23.63	25.83	0.977	-0.313	-8.777	
1151.94	6.30	57.00	1150.77	26.35	24.48	26.35	1.396	0.970	-9.375	
1161.36	6.70	56.20	1160.13	26.94	25.37	26.94	1.306	1.274	-2.548	
1170.75	7.20	55.60	1169.45	27.58	26.31	27.58	1.614	1.597	-1.917	
1180.10	7.50	58.90	1178.72	28.24	27.30	28.24	1.101	0.983	-4.171	
1189.06	7.70	57.50	1187.60	28.88	28.30	28.88	0.720	0.670	-2.009	
1198.10	7.60	58.40	1196.56	29.53	29.33	29.53	0.522	0.332	-2.987	
1207.72	7.60	59.10	1206.09	30.20	30.44	30.20	0.689	-0.624	-2.183	
1217.30	6.90	57.90	1215.60	30.83	31.47	30.83	2.243	-2.192	-3.758	
1226.50	6.30	53.90	1224.74	31.42	32.34	31.42	2.464	-1.957	-13.043	
1235.76	5.80	50.60	1233.94	32.02	33.12	32.02	1.973	-1.620	-10.691	

# Omni Drilling Technologies Inc.

## Standard Survey Report

Company: DEVON CANADA CORPORATION	Date: 6/7/2005	Time: 11:48:48	Page: 3
Field: Eagle Plains	Co-ordinate(NE) Reference: Site: K-58 True North	Vertical (TVD) Reference: KB Elevation 604.8 above Mean Sea Level	
Site: K-58	Well: Devon Eagle Plains	Section (VS) Reference: Well (0.0E, 0.0N, 0.0Az)	Survey Calculation Method: Minimum Curvature
Wellpath: Omni Job# 702			

**Survey: Directional Surveys**

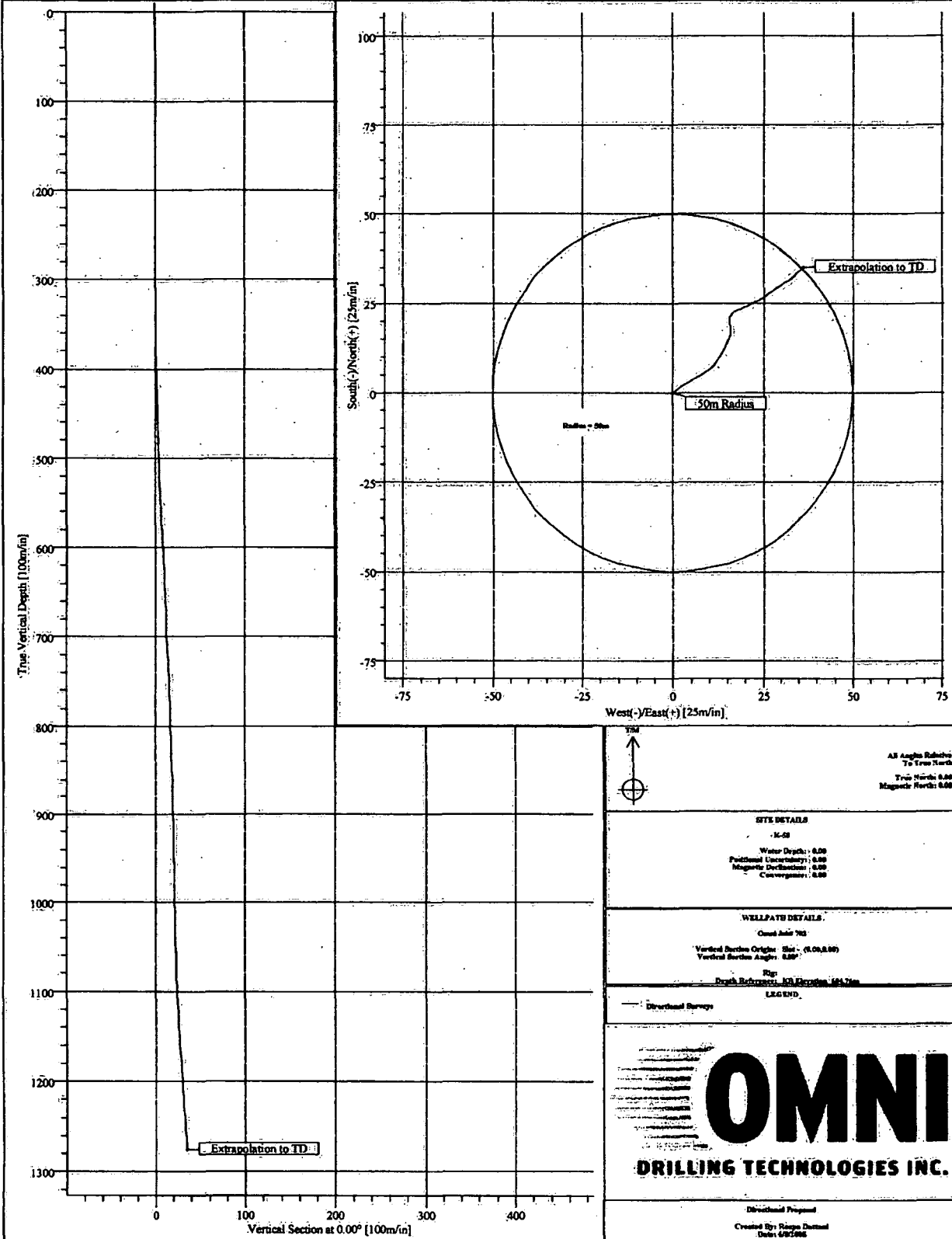
MD	Incl	Azim	TVD	HE-NASE	HE-W	VS	NDLS	Builds	Turn	Tool/Comment
m	deg	deg	m	m	m	m	deg/30m	deg/30m	deg/30m	
1245.17	5.90	47.30	1243.31	32.85	33.84	32.65	1.119	0.319	-10.521	
1254.74	6.10	48.10	1252.82	33.33	34.57	33.33	0.740	0.627	-3.762	
1282.00	6.20	47.00	1280.04	33.87	35.13	33.87	0.574	0.413	3.719	
1278.00	6.42	48.88	1275.94	35.05	36.44	35.05	0.580	0.412	3.712	Extrapolation to TD

**Annotation**

MD	TVD	Tool/Comment
m	m	
1278.00	1275.94	Extrapolation to TD



Field: Eagle Plains  
 Site: K-58  
 Well: Devon Eagle Plains  
 Wellpath: Omni Job# 702  
 Survey: Directional Surveys



↑ True North  
 All Angles Referenced To True North  
 True North: 0.00  
 Magnetic North: 0.00

**SITE DETAILS**  
 - K-58  
 Water Depth: 0.00  
 Positional Uncertainty: 0.00  
 Magnetic Declination: 0.00  
 Convergence: 0.00

**WELLPATH DETAILS**  
 Well Job# 702  
 Vertical Section Origin: Stat.: (1.00, 0.00)  
 Vertical Section Angle: 0.00°  
 Rig: Directional Surveys  
 Depth Reference: 0.00  
 Elevation: 664.70m  
 LEGEND

**OMNI**  
 DRILLING TECHNOLOGIES INC.

Directional Program  
 Created By: Riggs Detail  
 Date: 6/2/06

2006/02/14

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OPERATOR: DEVON CANADA CORPORA		<b>REED Hycalog</b> A Grant Prideco Company		LSD: 66		SECTION: 07		TOWNSHIP: 136		RANGE: 55N	
CONTRACTOR: ENSIGN DRILLING				PROVINCE: YUKON TERRIT		WELL NAME: 66-07-136-55N/K58		LONGITUDE: 136° 55' 27.8" W		DISTRICT: 5431	
RIG: 55		LIC. NO.: YT1120		WELL DEPTH: 1330.1 m		LATITUDE: 66° 7' 34.8" N		SURVEY:		ABSTRACT: BLOCK:	
RIG TYPE:		LIC. DEPTH: 1330.1 m		FIELD: DEVON EAGLE PLAINS K-58		WELL PROFILE: Vertical		TOOLPUSHER:		WELL REMARKS:	
API NUMBER: K58660713655N		LIC. FORM TN: FORD LAKE		REP: VERNON SWAREN		PHONE NO:		<b>** CONFIDENTIAL TILL 28-MAR-07 **</b>			
REED WELL NO: CAL 97		OPERATOR REP: ROLAND BENOIT & JOHN WILLIAMS									
DRAWWORKS:		TOP DRIVE:		MUD COMPANY:		SPUD: 22-FEB-05		PIPE SIZE/TYPE:		LENGTH:	
PUMP1 MAKE/MODEL:		MUD SYSTEM: N/A		CONTRACT TYPE: Daywork		UNDERSURFACE: 08-MAR-05		HW PIPE SIZE/TYPE:			
PUMP2 MAKE/MODEL: GARDNER-DENVER PZ7		CONTRACT DEPTH: m		TOTAL DEPTH: 28-MAR-05		INTERMEDIATE:		COLLAR 1:			
PUMP3 MAKE/MODEL:								COLLAR 2:			

BIT NO	BIT SIZE mm	BIT MFG	BIT TYPE	SERIAL NO	JET SIZE mm or TFA mm	DEPTH OUT m	DRILLED m	HRS RUN	ACC HRS	ROP m/h	WOB kdaN	TOTAL RPM	MTR RPM	VERT DEV	PUMP kPa	FLOW m3/min	MUD				DULL CODES				RUN/INT DATE
																	T	WT	NS	VIS	WE	O	MO	LOC	
1	311.2	HC	X1CXP	J17674	14.3/14.3/14.3	100	100	14.00	14	7.1	1 / 6	60 / 120		0.3	4500	2.01	W	1180					2 2 NO A E In NOFM	22-FEB-05	
LOST CIRC @ 95M - RUN 2 CEMENT PLUGS - MUD TEMP = 18°C																									
2	311.2	HC	X1CXP	J17674	14.3/14.3/14.3	115	15	4.25	18	3.5	1 / 10	80 / 120		0.3	8000	2.8	W	1110					2 2 NO A E In NOBHA	25-FEB-05	
DRILL OUT CEMENT - LOST CIRC - RUN PLUG #3																									
3	311.2	HC	X1CXP	J17674	14.3/14.3/14.3	143	28	1.75	20	16.0	1 / 1	80 / 120		1.3	5000	2.21	W	1110					2 2 NO A E In NOBHA	26-FEB-05	
DRILL OUT CEMENT - DRILL BLIND - RUN PLUG #4																									
4	311.2	HC	X1CXP	J17674	14.3/14.3/14.3	206	63	10.75	31	5.9	6 / 10	90 / 120		3.0	5700	2.06	W	1160				4 4 FC A E In NOPR	28-FEB-05		
5	311.2	HC	MXR18P	RR00539	17.5/17.5/17.5	291	85	22.25	53	3.8	1 / 6	120 / 140		2.0	7400	2.09	W	1160				3 3 NO A E In NOPR	01-MAR-05		
MUD TEMP = 24°C																									
6	311.2	SB	F2XP	YD5187	14.3/14.3/14.3	362	71	15.50	69	4.6	4 / 6	140 / 145		2.8	8000	2.09	W	1180				2 2 WT G E In NOID	02-MAR-05		
MUD TEMP = 32°C																									
7	222.3	RH	TD61XMP	L54002	12.7/12.7/12.7	467	95	28.50	97	3.3	3 / 4	130 / 140		4.3	6000	1.41	W	1220	7	25	8	2 3 FC A E In TPR	06-MAR-05		
BHA: INSERT BIT, BIT SUB, DC X 5, JARS, DC X 5, HWDP X 10																									
Run Remarks: JACK RIG TO LEVEL & DRILL OUT - HART RIVER 385M - MUD TEMP = 32°C																									
8	222.3	RH	TD44MP	HY2303	12.7/12.7/12.7	527	70	39.75	137	1.8	6 / 7	110 / 112		4.0	6000	1.41	W	1200	8	27	8	4 5 FC A E In BTDSF	08-MAR-05		
BHA: INSERT BIT, BIT SUB, DC X 5, JARS, DC X 5, HWDP X 10																									
Run Remarks: TWST OFF DC - DETERIORATION AROUND CELLAR - MUD TEMP = 22°C																									
9	222.3	RH	TD51XMP	L54002	25.4/25.4/25.4	527	0	.00	137								W					2 3 FC A E In TBHA	11-MAR-05		
CIRC - WAIT ON DC INSPECTOR																									
10	222.3	HC	HRS38C	6021470	14.3/14.3/12.7	734	207	59.25	196	3.5	14 / 16	25 / 35	MM	3.4	10000	1.3	W	1235	8	29	8	5 6 WT A E In BT PR	14-MAR-05		
BHA: INSERT BIT, LO SPEED MOTOR, FLOAT SUB, MONEL, PULSER SUB, MONEL, XO PIN/BOX, SHOCK SUB, DC X 4, JARS, DC X 9, HWDP X 9																									
Run Remarks: DIRECTIONAL DRILL - MOTOR SET AT 1.5° - MUD TEMP = 28°C																									
11	222.3	RH	TD61AP	JL4478	14.3/14.3/14.3	889	155	50.00	246	3.1	16 / 17	25 / 28	MM	1.2	10600	1.29	W	1350	13	36	7	7 8 BT A F In TPR	17-MAR-05		
BHA: INSERT BIT, LO SPEED MOTOR, FLOAT SUB, MONEL, PULSER SUB, MONEL, XO PIN/BOX, SHOCK SUB, DC X 4, JARS, DC X 9, HWDP X 9																									
Run Remarks: DIRECTIONAL DRILL - MOTOR SET AT 1.5° - S3A 882M - MUD TEMP = 30°C																									
12	222.3	HC	HRS44G	6028920	14.3/14.3/15.9	1051	162	50.75	297	3.2	16 / 19	25 / 40	MM	2.0	10000	1.29	W	1310	12	35	6	5 7 WT G E In 2 FC PR	21-MAR-05		
BHA: INSERT BIT, LO SPEED MOTOR, FLOAT SUB, MONEL, PULSER SUB, MONEL, XO PIN/BOX, SHOCK SUB, DC X 4, JARS, DC X 9, HWDP X 9																									
Run Remarks: DIRECTIONAL DRILL - CHANCE 998M - MUD TEMP = 28°C																									



2006/02/14

OPERATOR: DEVON CANADA CORPORA	<b>REED Hycalog</b> A Grant Prideco Company	SECTION: 07	TOWNSHIP: 138	RANGE: 55N
CONTRACTOR: ENSIGN DRILLING		PROVINCE: YUKON TERRIT	COUNTRY: CANADA	DISTRICT: 5431
RIG: 55	LIC. NO: YT1120	WELL NAME: 66-07-138-55N/K58	LATITUDE: 66° 7' 34.8" N	LONGITUDE: 138° 59' 27.6" W
RIG TYPE:	LIC. DEPTH: 1330.1 m	SURVEY: ABSTRACT	BLOCK:	
API NUMBER: K58660713855N	LIC. FORMTN: FORD LAKE	FIELD: DEVON EAGLE PLAINS K-68	WELL PROFILE: Vertical	
REED WELL NO: CAL*97	REP: VERNON SWAREN	<b>** CONFIDENTIAL TILL 28-MAR-07 **</b>		
OPERATOR REP: ROLAND BENOIT & JOHN WILLIAMS	PHONE NO:			
TOOLPUSHER:				
DIRECTNL CO: OMNI				
WELL REMARKS:				

PUMP1 MAKE/MODEL:	MUD COMPANY:	SPUD: 22-FEB-05	PIPE SIZE/TYPE:	LENGTH:
PUMP2 MAKE/MODEL: GARDNER-DENVER/PZ7	MUD SYSTEM: N/A	UNDERSURFACE: 06-MAR-05	HW PIPE SIZE/TYPE:	
PUMP3 MAKE/MODEL:	CONTRACT TYPE: Daywork	INTERMEDIATE:	COLLAR 1:	
DRAWWORKS: TOP DRIVE	CONTRACT DEPTH: m	TOTAL DEPTH: 28-MAR-05	COLLAR 2:	

BIT NO	BIT SIZE (mm)	BIT MFG	BIT TYPE	SERIAL NO	JET SIZE (mm or TFA)	DEPTH OUT (m)	DRILLED (m)	HRS RUN	ACC HRS	ROP (m/h)	WOB (kdaN)	TOTAL RPM	MTR RPM	VERT DEV	PUMP (kPa)	FLOW (m <sup>3</sup> /min)	MUD				DULL CODES				RUN/INT DATE					
																	WT	%S	VIS	WL	FO	MD	LOC	B		G	OO	RP		
13	222.3	RH	TD81AP	JL4474	14.3 14.3 15.9	1102	.61	20.25	317	2.5	16 / 19	25 / 30	MM	5.1	10000	1.29	W	1320	11	34	8	3	4	T	G	E	1	FC	HP	27-MAR-05
BHA: INSERT BIT, LO SPEED MOTOR, FLOAT SUB, MONEL, PULSER SUB, MONEL, XO PIN/BOX, SHOCK SUB, DC X 4, JARS, DC X 9, HWDP X 9 Run Remarks: DIRECTIONAL DRILL - CANOE 1083M - MUD TEMP = 23°C																														
14	222.3	RH	TD53AMP	D74378	14.3 14.3 15.9	1234	132	43.50	361	3.0	15 / 17	25 / 30	MM	6.3	10000	1.29	W	1300	11	33	8	6	7	T	G	E	3	FC	PR	25-MAR-05
BHA: INSERT BIT, LO SPEED MOTOR, FLOAT SUB, MONEL, PULSER SUB, MONEL, XO PIN/BOX, SHOCK SUB, DC X 4, JARS, DC X 9, HWDP X 9 Run Remarks: DIRECTIONAL DRILL - MUD TEMP = 28°C																														
15	222.3	RH	TD53AP	M16005	14.3 14.3 15.9	1278	44	12.25	373	3.6	16 / 18	25 / 35	MM	6.4	10000	1.29	W	1315	12	49	7.5	2	3	T	G	E	In	FC	TD	27-MAR-05
BHA: INSERT BIT, LO SPEED MOTOR, FLOAT SUB, MONEL, PULSER SUB, MONEL, XO PIN/BOX, SHOCK SUB, DC X 4, JARS, DC X 9, HWDP X 9 Run Remarks: DIRECTIONAL DRILL - MUD TEMP = 28°C																														

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**Devon Eagle Plains K-58**  
 Lat: 66° 07' 34.8" Long: 136° 55' 27.6"  
**Exploration-Gas**

License #: 1120

Vertical Yes

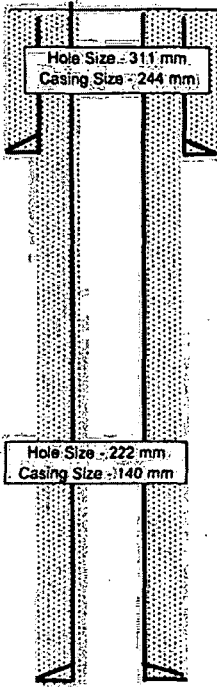
Sour Well

District - Yukon Territory

Tight Hole - Yes

Drilling Rig: Ensign # 55

Casing Bowl: 279 mm x 21 MPa x 244 mm



	(MD) m KB	(TVD) m KB
0	0	0
19	19	19
49	49	49
219	219	219
251	251	251
387	387	387
762	762	762
874	874	874
1086	1086	1086
1323	1323	1323
1373	1373	1373

Devon Canada Corporation 100.0% AFE #: 5270083  
 Estimated # Days: 22 AFE Est: \$4,994,000

Elevations / Depths	
Ground Level	Survey'd 599.3 m
Kelly Bushing	604.0 m
Total Depth (TVD)	1373 mKB

Formation Tops	Depth Subsea (m)	Expected Pressure	EMD	Potential Problems
Parkin Shale	603			LC
Parkin Sand**	584	192 kPa	1030.1 kg/m <sup>3</sup>	AP
Whitstone River	554	495 kPa	1029.8 kg/m <sup>3</sup>	
Jungle Creek**	384	2,212 kPa	1029.6 kg/m <sup>3</sup>	
Blackie (S4)	352	2,535 kPa	1029.5 kg/m <sup>3</sup>	
Hart River (S3B)**	216	3,909 kPa	1029.6 kg/m <sup>3</sup>	
Top (S3A)	159			
Chance SS*	-271	10,700 kPa	1248.0 kg/m <sup>3</sup>	AP, S
Canoe (S1)	-483	10,969 kPa	1029.6 kg/m <sup>3</sup>	S
Ford Lake	-720	13,362 kPa	1029.5 kg/m <sup>3</sup>	
TD in Ford Lake	-770	13,867 kPa	1029.5 kg/m <sup>3</sup>	

\* Primary zone \*\* Secondary Zone (S-Sour Zone, AP-Abnormal Pressure, LC-Lost Circulation, WI-Water Injection, DP-Depleted)

Geological Evaluation	
GSC Samples	SC to TD 5m int.
Devon Samples	SC to TD 5m int.
Gas Detection	Hot Wire
Corers	None
DST	two - three anticipated
Logging	as per geological prognosis**

Drilling Fluids	
Surface	0 - 350 Water based Gel / Lime
Main	350 - 1373 Water based Gel system

**Additional Information**  
 \*\* Logging program will entail porosity logs, resistance logs, side wall core and MDT.

Casing Design	
Surface	
0-350 m	244.5 mm, 53.6 kg/m, J-55 ST&C
0-1373	139.7 mm, 25.31 kg/m, L-80 LT&C

H<sub>2</sub>S is possible, with a potential concentration of 0.1% in the Chance sand and 4.3% in the Canoe member. Release rate 0.72 m<sup>3</sup>/s, EPZ 1.8 km.  
 Over pressured gas is possible in the shallow Parkin sand at 19 meters. The off set well D-54 and C-33 experienced +/- 7000 kPa. Consequently a diverter system will be employed while drilling surface hole.

Cement	
Surface	350 - 0 Lead: Glacial Mix + 20% GCR-2 Tail: 0:1:0 Class "G" + 2.0% CaCl <sub>2</sub>
Production	1373 - 0 Lead: 1:1:2 Class "G" + 0.5% CFR Tail: 0:1:0 Class "G" + 0.3% CFL-3 + 0.2% SPC-11

Date Prepared 2004/11/11, Tops Revised 2005-02-19 Prepared by David Quinn