



Delta-P Test Corp.

Drill Stem Test Report

Northern Cross (Yukon) Ltd.

October 9, 2012

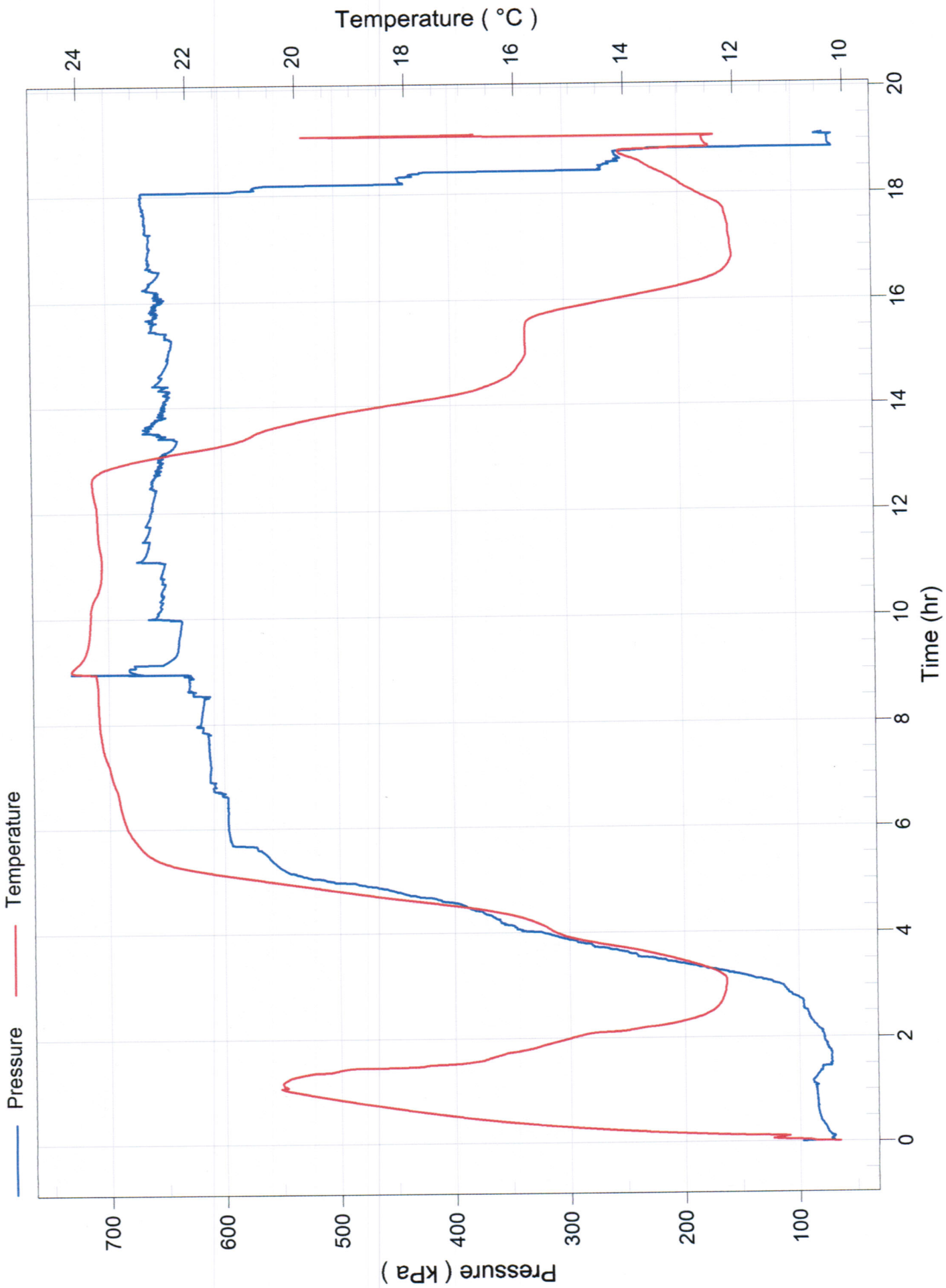
NCY E Chance E-78
Blackie
Well License:

300E786610137000
929.00 - 939.00 mKB
1129

DST # 1
AFE#: 1c-020-D02
Invoice# : 2004

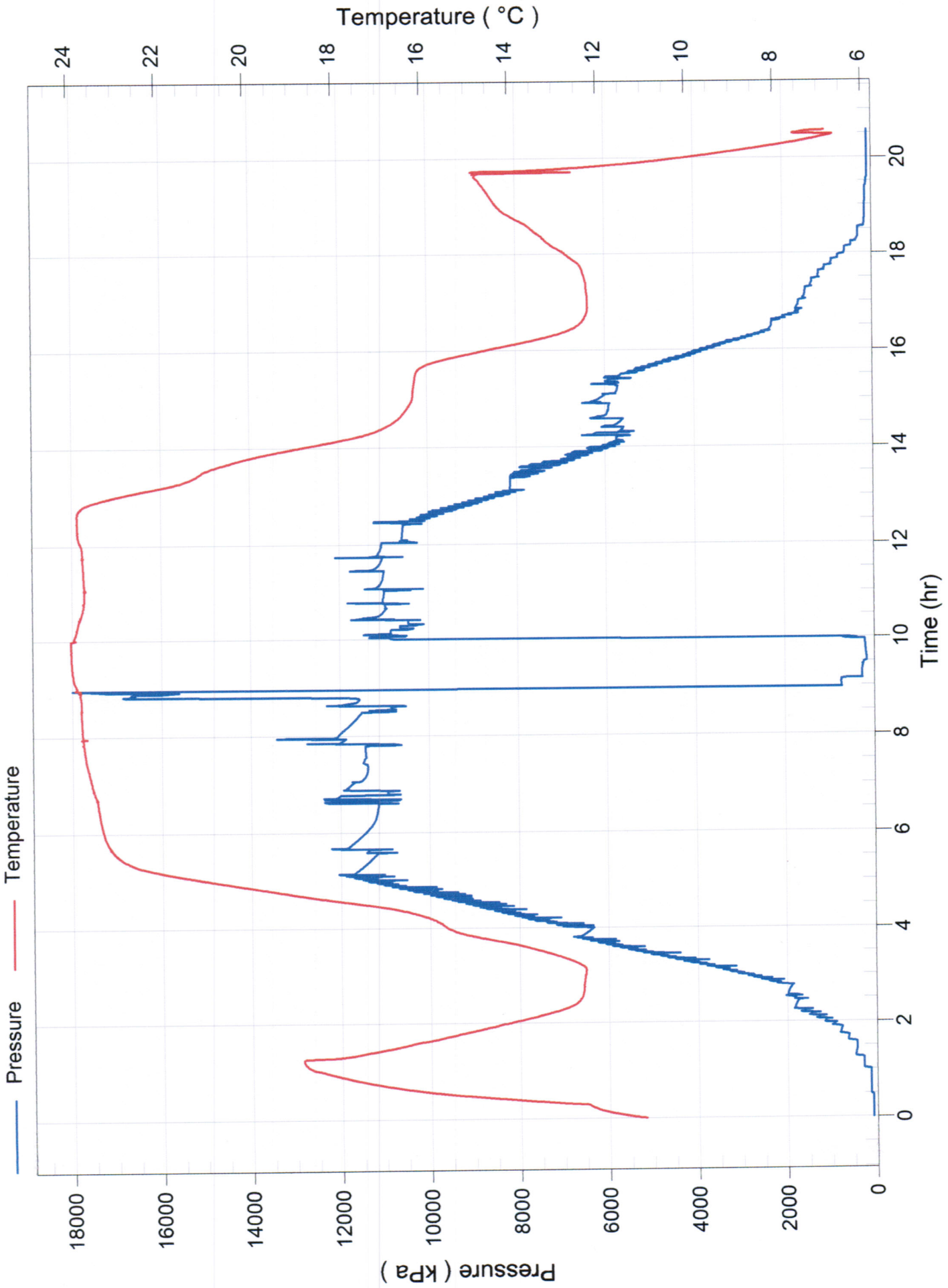
NCY E Chance E-78 300E786610137000 DST # 1 Blackie 929 m - 939 m

Fluid recovery rec # 77044 October 9, 2012



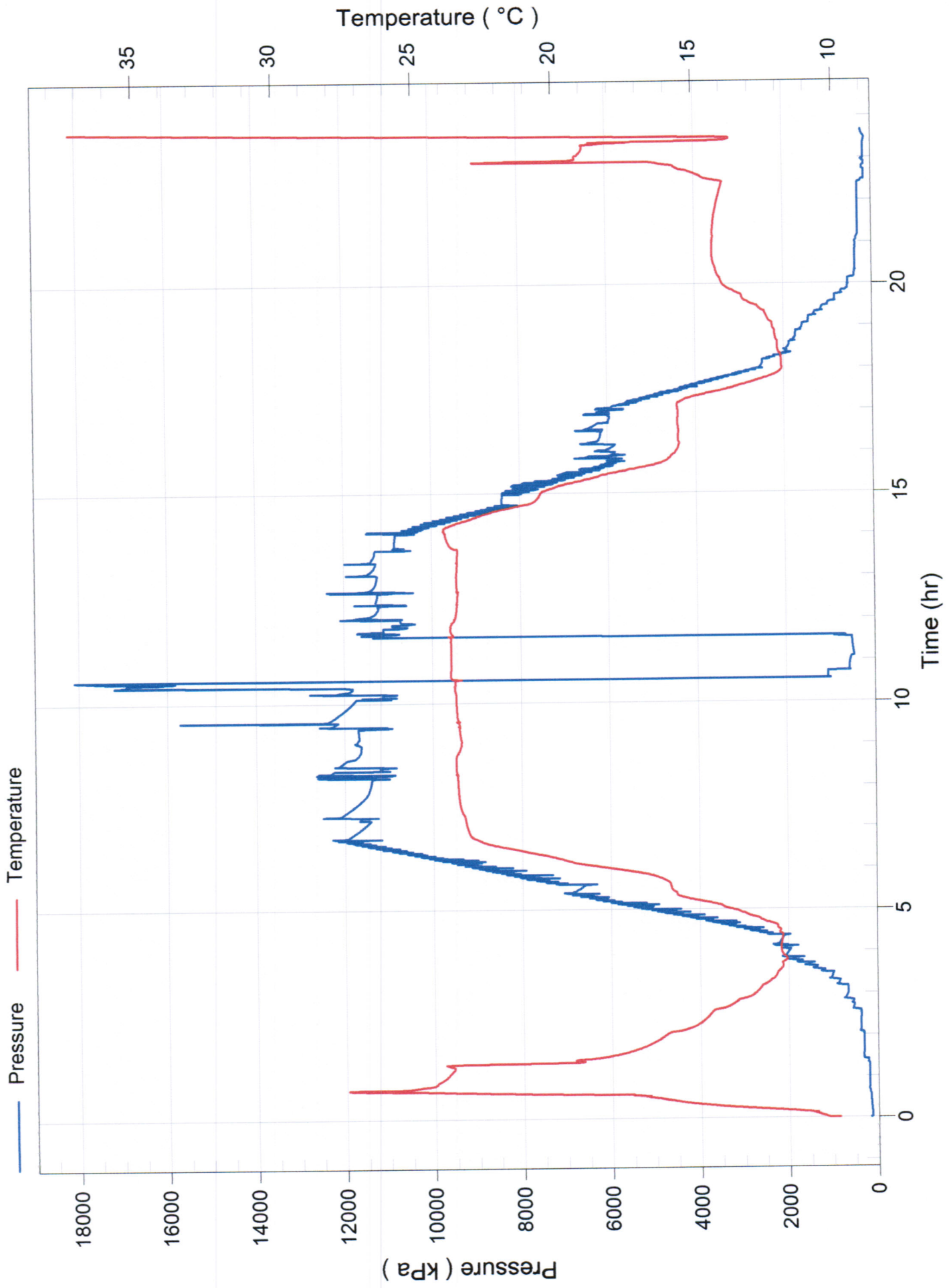
NCY E Chance E-78 300E786610137000 DST # 1 Blackie 929-939

Inside Recorder #76758 October 9, 2012



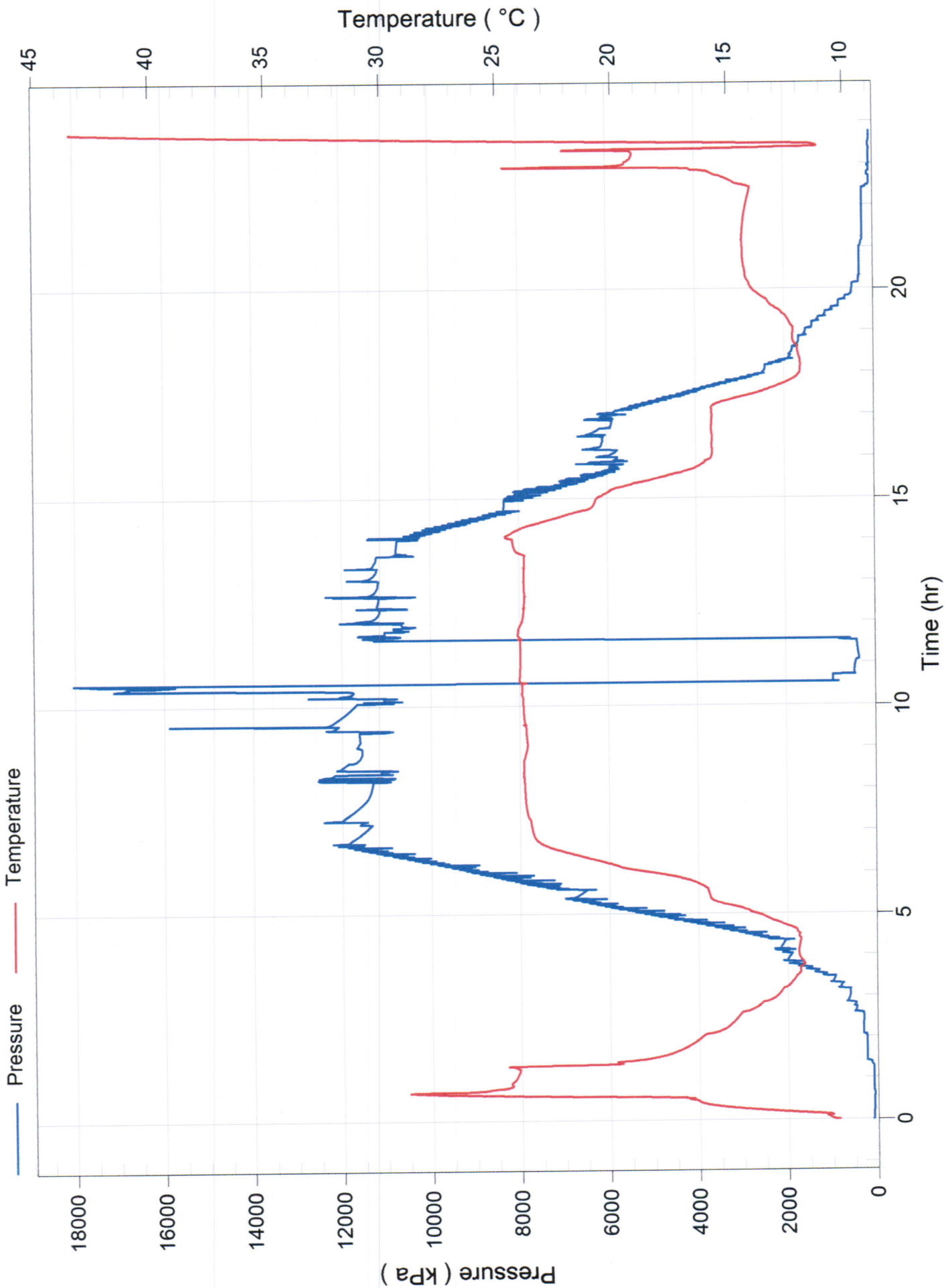
NCY E Chance E-78 300E786610137000 DST # 1 Blackie 929 m -939 m

Outside rec # 76884 October 9, 2012



NCY EChance E-78 300E786610137000 DST # 1 Blackie 929 m -939 m

Outside spare rec # 76301 October 9, 2012



DELTA-P TEST CORP. FLOW RATES

Main Flow			
Time	Orifice Size (mm)	Flow Pressure (kPa)	Flow Rate (m3/D)
5			
10			
15			
20			
25			
30			
35			
40			
45			
50			
55			
60			
65			
70			
75			
80			
85			
90			
95			
100			
105			
110			
115			
120			

Optional Third Flow			
Time	Orifice Size (mm)	Flow Pressure (kPa)	Flow Rate (m3/D)
5			
10			
15			
20			
25			
30			
35			
40			
45			
50			
55			
60			
65			
70			
75			
80			
85			
90			
95			
100			
105			
110			
115			
120			

DST Time and Pressure Summary

All times as (dd/mmm/yyyy hh:mm:ss)

	Time	BHP (kPa)
Initial Hydrostatic	Oct/09/12 13:40:00	11,751
Start Prewflow	Oct/09/12 14:37:00	1,001
End Prewflow	Oct/09/12 14:47:00	1,049
Initial Shut-In	Oct/09/12 15:37:00	521
Start Mainflow		
End Mainflow		
Final Shut-In		
Final Hydrostatic	Oct/09/12 15:47:00	11,602

Prewflow Time (min)	10.00
Mainflow Time (min)	0.00
Initial Shut-in Time (min)	50.00
Final Shut-in Time (min)	0.00

Optional Flow Start	
Optional Flow End	
Optional Shut-In	
Optional Flow Time	0.00
Optional Shut-In Time	0.00

Recorder Used	Outside #1
Recorder Depth	931
Recorder Ser #.	76884



NCY E Chance E-78
Blackie

300E786610137000
929 to 939 mKB

DST # 1
AFE#: 1c-020-D02
Job#: 2004

Pipe Tally Sheet

Drill Collars		Heavy Weight		Drill Pipe		Drill Pipe		Drill Pipe		Drill Pipe		Drill Pipe	
1	12.83	1	0.83	1	12.61	11	12.91	21	12.94	31	12.92	41	12.93
2	12.81	2		2	12.90	12	12.67	22	12.62	32	12.95	42	12.94
3	12.82	3		3	12.56	13	12.61	23	12.95	33	12.95	43	12.93
4	12.80	4		4	12.93	14	12.93	24	12.91	34	12.56	44	12.94
5	12.80	5		5	12.63	15	12.93	25	12.92	35	12.91	45	12.93
6	12.80	6		6	12.89	16	12.93	26	12.94	36	12.91	46	12.62
7	12.80	7		7	12.86	17	12.58	27	12.57	37	12.93	47	12.93
8	12.80	8		8	12.92	18	12.58	28	12.60	38	12.93	48	12.60
9	12.83	9		9	12.93	19	12.59	29	12.92	39	12.90	49	12.56
10	12.80	10		10	12.90	20	12.59	30	12.79	40	12.92	50	12.82
DC	128.09	HW	0.83	1	128.13	2	127.32	3	128.16	4	128.88	5	128.20

Drill Pipe		Drill Pipe		Drill Pipe		Drill Pipe		Drill Pipe		Drill Pipe		Drill Pipe Total	
51	12.93	61	12.90	71		81		91		101		1	128.13
52	12.60	62		72		82		92		102		2	127.32
53	12.95	63		73		83		93		103		3	128.16
54	12.91	64		74		84		94		104		4	128.88
55	12.96	65		75		85		95		105		5	128.20
56	12.62	66		76		86		96		106		6	128.87
57	12.95	67		77		87		97		107		7	12.90
58	12.95	68		78		88		98		108		8	0.00
59	12.56	69		79		89		99		109		9	0.00
60	13.44	70		80		90		100		110		10	0.00
6	128.87	7	12.90	8	0.00	9	0.00	10	0.00	11	0.00	11	0.00
											Stabbing Valve	0.49	

Before Test in Derrick	At Test Depth	In	Out	Total	
Total Drill Collars	10	Total Drill Collars	10	0	10
Total Heavy Weight	0	Total Heavy Weight	0	0	0
Total Drill Pipe	64	Total Drill Pipe	61	3	64

Total DP 782.95

Total DC 128.09

Procedures for running in hole with DST tools:

1. Run tools in slowly to avoid surge pressures
2. Do not rotate drill string
3. Pump out sub must be placed on top of first drill collar
4. Notify DST Supervisor for following conditions:
 - a. If hole gets tight running in or out
 - b. If a bridge is encountered
 - c. If any fluid is encountered in pipe

Total HWT 0.83

Tool to Bottom of 20.23

Top Packer

Total Strings 932.10

Above Interval

Top of Interval 929.00

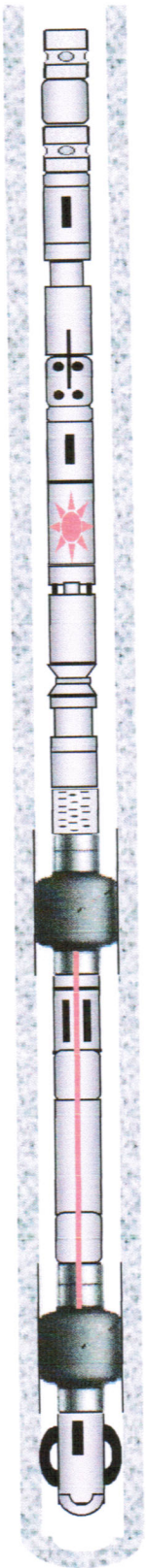
Depth

Top Single Above 3.10

Table

By signing below, I certify that I am the authorized representative of the above named Operator. I have reviewed the drill pipe tally as shown above and agree that it is correct to the best of my knowledge. On behalf of the above named Operator, I agree to accept responsibility for the Drill Stem Test tools after they are placed below the table into the wellbore and will pay the actual cost of replacement, repair, or any recovery operations of the above mentioned Drill Stem Test Tools.

Company Representative: _____



<u>Tool Description</u>	<u>Length</u>	<u>Ser#</u>	
Marker Sub	0.00		
Pump Out Sub (Pin Act.)	0.31		
Cross Over Sub	0.31		
Pump Out Sub (Press. Act)	0.31		
Fluid Recorder	1.31	77044	
Hydraulic Shut-in Tool	2.06		
Fluid Sampler	1.00	0	
Fluid Sampler		0	
Inside Recorder	1.31	76758	
WTD Recorder	5.84		
Jars	1.82		
Safety Joint	0.69		
Pump	2.55		
Screen	1.05		
Top Packer	1.67		Total to bottom of top Packer
			20.23 m
T.C.	0.72		
Bundle Carrier	1.25		
Outside #1		76884	
Outside #2		76301	Test Interval Length (from Tool)
Inflate Recorder		76903	10.03
Blank Spacing	7.51		
Crossover Sub	0.00		
Drill Collars	0.00		
Crossover Sub	0.00		
Stub	0.55		
Bottom Packer	1.71		
			Total Tool Length
Below Straddle Recorder		0	34.17 m
Belly Spring	2.20		



NCY E Chance E-78
Blackie

300E786610137000
929 to 939.0 mKB

DST # 1
AFE#: 1c-020-D
Job#: 2004

General Information

Well License	1129	Test Type	Inflate Straddle	Hole Condition	Good
Client Representative	Justin Cobain / Rod Bere	Total Depth	955.0 m	Hole Deviation	No
Phone Number	0	K.B Elevation	609.70 m	Cushion?	No
Head Office Contact	John Gray	Ground Elevation	604.79 m	Tool Chased?	No
Office Phone Number	403-237-0055	Drill Pipe I.D.	82.30 mm	Mud Drop?	No
Office Fax Number		Heavy Weight I.D.	0.00 mm	Mud Type	Gel/chem
DST Supervisor	Joe Buziak	Drill Collar I.D.	60.00 mm	Mud Weight	1260 kg/m3
DST Unit #	908	Bore Hole Size	222.00 mm	Mud Viscosity	100+ s/l
DST Unit Phone #	403-396-2633	Element Rubber	196.00 mm	Water Loss	N/A cm3
Drilling Contractor	NCY	Bottom Hole Choke	19.05 mm	Mud Hydrostatic	12.36 kPa/m
Rig #	1				

Recovery Information

Lab Company	Core Lab		
Total Fluid Recovered	48 m		
<u>Length</u>	<u>Description</u>	<u>Salinity (ppm)</u>	<u>pH</u>
48 m of	Drilling mud		
0 m of		0	
0 m of		0	
0 m of		0	
0 m of		0	
0 m of		0	
0 m of		0	
Total Fluid Samples (Including mud tank sample)	6 Sample Bottles		
Bottom Hole Sampler Serial Numbers:			
Gas Bomb Serial Number(s) Preflow			
Gas Bomb Serial Number(s) Mainflow	0 ; 0		

Initial Sampler Recovery Information

Date of pick up: _____ Lab Company Rep (please print): _____

Time of pick up: _____ Lab Company Rep (Signature): _____

Opening pressure of downhole sampler: _____ kpa

Total Volume of downhole sampler: _____ cc

Recovered Volume of downhole sampler: _____ cc

Miscellaneous Notes: _____

Please note that this is a field observation and a detailed analysis of the recovery will be forth-coming from the lab company