



Drill Stem Test Report

Northern Cross (Yukon) Ltd.

October 11, 2012

NCY E Chance E-78
Fishing Branch
Well License:

300E786610137000
487.50 - 497.50 mKB
1129

DST # 5
AFE#: 1c-020-D02
Invoice# : 2007



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Fishing Branch

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487.50 to 497.50 mKB

DST # 5
AFE#: 1c-020-DI
Job#: 2007

General Information					
Well License	1129	Test Type	Inflate Straddle	Reset	
Client Representative	Justin Cobain / Rod Bere	Total Depth	955.0 m	Hole Condition	Good
Phone Number	0	K.B Elevation	609.70 m	Hole Deviation	No
Head Office Contact	John Gray	Ground Elevation	604.79 m	Cushion?	No
Office Phone Number	403-237-0055	Drill Pipe I.D.	82.30 mm	Tool Chased?	No
Office Fax Number		Heavy Weight I.D.	0.00 mm	Mud Drop?	No
DST Supervisor	Joe Buziak	Drill Collar I.D.	60.00 mm	Mud Type	Gel/chem
DST Unit #	908	Bore Hole Size	222.00 mm	Mud Weight	1250 kg/m3
DST Unit Phone #	403-396-2633	Element Rubber	196.00 mm	Mud Viscosity	70 s/l
Drilling Contractor	NCY	Bottom Hole Choke	19.05 mm	Water Loss	8.3 cm3
Rig #	1			Mud Hydrostatic	12.26 kPa/m

Preflow Comments:

Mainflow Comments:

Additional Comments:
Packers appeared to be inflated. 3,000 daN was briefly held on the packers, then back to string weight. Attempted to re-inflate packers 1m, 2m, and 3m below initial interval as per customer request. No inflation was achieved. POOH. Pulled as high as 52,000 (daN) to pull entire tool length up through the zone. Bottom packer had large piece of rubber missing from the bottom of the packer when seen at surface.

Recovery Information

Lab Company
Total Fluid Recovered 0 m

Length	Description	Salinity (ppm)	pH

Total Fluid Samples (Including mud tank sample) 0 Sample Bottles

Bottom Hole Sampler Serial Numbers:		
Gas Bomb Serial Number(s) Preflow		
Gas Bomb Serial Number(s) Mainflow		
Gas Bomb Serial Number(s) Third flow		

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Tool Description	Length (m)	Ser#
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
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	
T.C.	0.72	
Bundle Carrier	1.25	
Outside #1		76884
Outside #2		76301
Inflate Recorder		76903
Blank Spacing	7.51	
Crossover Sub	0.00	
Drill Collars	0.00	
Crossover Sub	0.00	
Stub	0.55	
Bottom Packer	1.71	
Below Straddle Recorder		0
Belly Spring	2.20	
Tool Above Interval	20.23 m	
DST Tool Length	34.17 m	
Test Interval Length	10.03 m	

Test Time, Pressure, and Flow Summary			
Recorder:	Outside #1	Recorder Ser # 76884	Depth 489.5 m

Times			
Preflow :	9:40:00	to 9:40:00	Duration: 0.0 min.
Mainflow:	9:40:00	to 9:40:00	Duration: 0.0 min.
Initial Shutin :	9:40:00	to 9:40:00	Duration: 0.0 min.
Final Shutin:	9:40:00	to 9:40:00	Duration: 0.0 min.

Pressures (kPa)			
Preflow:	0 kPa	to 0 kPa	Initial Shutin: 0 kPa
Mainflow :	0 kPa	to 0 kPa	Final Shutin: 0 kPa
Thirdflow:	kPa	to kPa	Third Shutin: kPa
Initial Hydrostatic:	0 kPa		Final Hydrostatic: 0 kPa

MAINFLOW: Gas Flow Rates

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

Test Tool String Weights			
Tool Weight	2000 daN	Hole Drag Down	3000 daN
Initial String Weight	30000 daN	Hole Drag Up	16000 daN
Unseated String	30000 daN	Weight to Open	0 daN



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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		41	
2	12.81	2		2	12.90	12	12.67	22	12.62	32		42	
3	12.82	3		3	12.56	13	12.61	23	12.95	33		43	
4	12.80	4		4	12.93	14	12.93	24	12.91	34		44	
5	12.80	5		5	12.63	15	12.93	25	12.92	35		45	
6	12.80	6		6	12.89	16	12.93	26	12.94	36		46	
7	12.80	7		7	12.86	17	12.58	27	12.57	37		47	
8	12.80	8		8	12.92	18	12.58	28		38		48	
9	12.83	9		9	12.93	19	12.59	29		39		49	
10	12.80	10		10	12.90	20	12.59	30		40		50	
DC	128.09	HW	0.83	1	128.13	2	127.32	3	89.85	4	0.00	5	0.00

Drill Pipe		Drill Pipe		Drill Pipe		Drill Pipe		Drill Pipe		Drill Pipe		Drill Pipe Total	
51		61		71		81		91		101		1	128.13
52		62		72		82		92		102		2	127.32
53		63		73		83		93		103		3	89.85
54		64		74		84		94		104		4	0.00
55		65		75		85		95		105		5	0.00
56		66		76		86		96		106		6	0.00
57		67		77		87		97		107		7	0.00
58		68		78		88		98		108		8	0.00
59		69		79		89		99		109		9	0.00
60		70		80		90		100		110		10	0.00
6	0.00	7	0.00	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 DP	345.79
Total Heavy Weight	0	Total Heavy Weight		0	0	0	Total DC	128.09
Total Drill Pipe	64	Total Drill Pipe		27	37	64	Total HWT	0.83

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

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.

Tool to Bottom of Top Packer 20.23

Total Strings Above Interval 494.94

Top of Interval Depth 487.50

Top Single Above Table 7.44

Company Representative: _____