



Drill Stem Test Report

Northern Cross (Yukon) Ltd.

October 9, 2012

NCY E Chance E-78
Blackie
Well License:

300E786610137000
894.50 - 904.50 mKB
1129

DST # 2
AFE#: 1c-020-D02
Invoice# : 2005



NCY E Chance E-78
Blackie

300E786610137000
894.50 to 904.50 mKB

DST # 2
AFE#: 1c-020-DI
Job# : 2005

General Information					
Well License	1129	Test Type	Inflate Straddle	Reset	
Client Representative	Justin Cobain / Rod Bere	Total Depth	955.0 m	Hole Condition	Poor
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	1260 kg/m3
DST Unit Phone #	403-396-2633	Element Rubber	196.00 mm	Mud Viscosity	100+ s/l
Drilling Contractor	NCY	Bottom Hole Choke	19.05 mm	Water Loss	N/A cm3
Rig #	1			Mud Hydrostatic	12.36 kPa/m

Preflow Comments:
Mainflow Comments:
Additional Comments:
5 Attempts to Inflate Packers. Moved interval 1m up on one attempt, and 2m up on another attempt at customer request.

Recovery Information			
Lab Company			
Total Fluid Recovered	0	m	
Length	Description	Salinity (ppm)	pH
		0	
		0	
		0	
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			

**NCY E Chance E-78
Blackie**
**300E786610137000
894.50 to 904.50 mKB**
**DST # 2
AFE#: 1c-020-D0
Job#: 2005**

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 896.5 m

Times			
Preflow :	0:00:00	to 0:00:00	Duration: 0.0 min.
Mainflow:	0:00:00	to 0:00:00	Duration: 0.0 min.
Initial Shutin :	0:00:00	to 0:00:00	Duration: 0.0 min.
Final Shutin:	0:00:00	to 0:00:00	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	4000 daN
Initial String Weight	34000 daN	Hole Drag Up	4000 daN
Unseated String	34000 daN	Weight to Open	0 daN



Northern Cross (Yukon) Ltd.
October 9, 2012

NCY E Chance E-78
Blackie

300E786610137000
894.5 to 904.5 mKB

DST # 2
AFE#: 1c-020-D02
Job#: 2005

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		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	115.43
57	12.95	67		77		87		97		107		7	0.00
58	12.95	68		78		88		98		108		8	0.00
59	12.56	69		79		89		99		109		9	0.00
60		70		80		90		100		110		10	0.00
6	115.43	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 756.61
Total Heavy Weight 0	Total Heavy Weight	0	0	0	
Total Drill Pipe 64	Total Drill Pipe	59	5	64	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 Top Packer	20.23
Total Strings Above Interval	905.76
Top of Interval Depth	894.50
Top Single Above Table	11.26

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: _____