



Drill Stem Test Report

Northern Cross (Yukon) Ltd.

October 10, 2012

NCY E Chance E-78
Blackie
Well License:

300E786610137000
894.50 - 904.50 mKB
1129

DST # 4
AFE#: 1c-020-D02
Invoice# : 2008



NCY E Chance E-78
Blackie

300E786610137000
894.50 to 904.50 mKB

DST # 4
AFE#: 1c-020-DI
Job#: 2008

General Information					
Well License	1129	Test Type	Inflate Straddle		
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:
See Closed Chamber, Telemetry Reports.
Mainflow Comments:
See Closed Chamber, Telemerty Reports.
Additional Comments:

Recovery Information			
Lab Company			
Total Fluid Recovered	43 m		
Length	Description	Salinity (ppm)	pH
43 m	of Drilling mud	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			

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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 896.5 m

Times			
Preflow :	23:39:45	to 23:49:45	Duration: 10.0 min.
Mainflow:	0:52:00	to 1:22:00	Duration: 30.0 min.
Initial Shutin :	23:49:45	to 0:52:00	Duration: 62.2 min.
Final Shutin:	1:22:00	to 1:52:00	Duration: 30.0 min.

Pressures (kPa)			
Preflow:	515 kPa	to 561 kPa	Initial Shutin: 1470 kPa
Mainflow :	623 kPa	to 610 kPa	Final Shutin: 710 kPa
Thirdflow:	kPa	to kPa	Third Shutin: kPa
Initial Hydrostatic:	11353 kPa	Final Hydrostatic:	10957 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	33000 daN	Hole Drag Up	4000 daN
Unseated String	33000 daN	Weight to Open	5000 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	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 DC	128.09
Total Drill Pipe	64	Total Drill Pipe		59	5	64	Total HWT	0.83

Procedures for running in hole with DST tools:

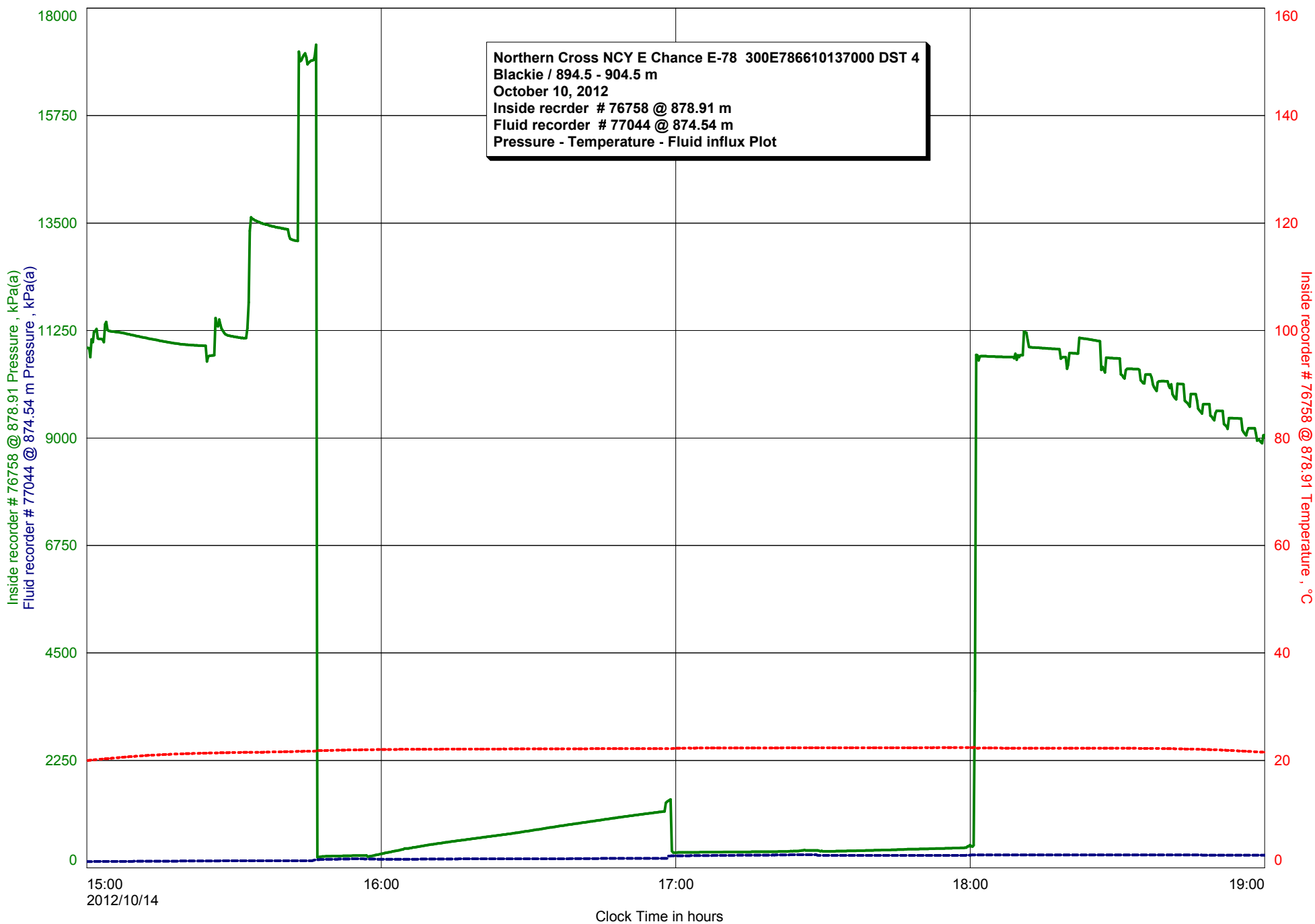
1. Run tools in slowly to avoid surge pressures
2. Do not rotate drill string
3. Pump out sub must be placed on top of first drill collar
4. Notify DST Supervisor for following conditions:
 - a. If hole gets tight running in or out
 - b. If a bridge is encountered
 - c. If any fluid is encountered in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

Total DP	756.61
Total DC	128.09
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

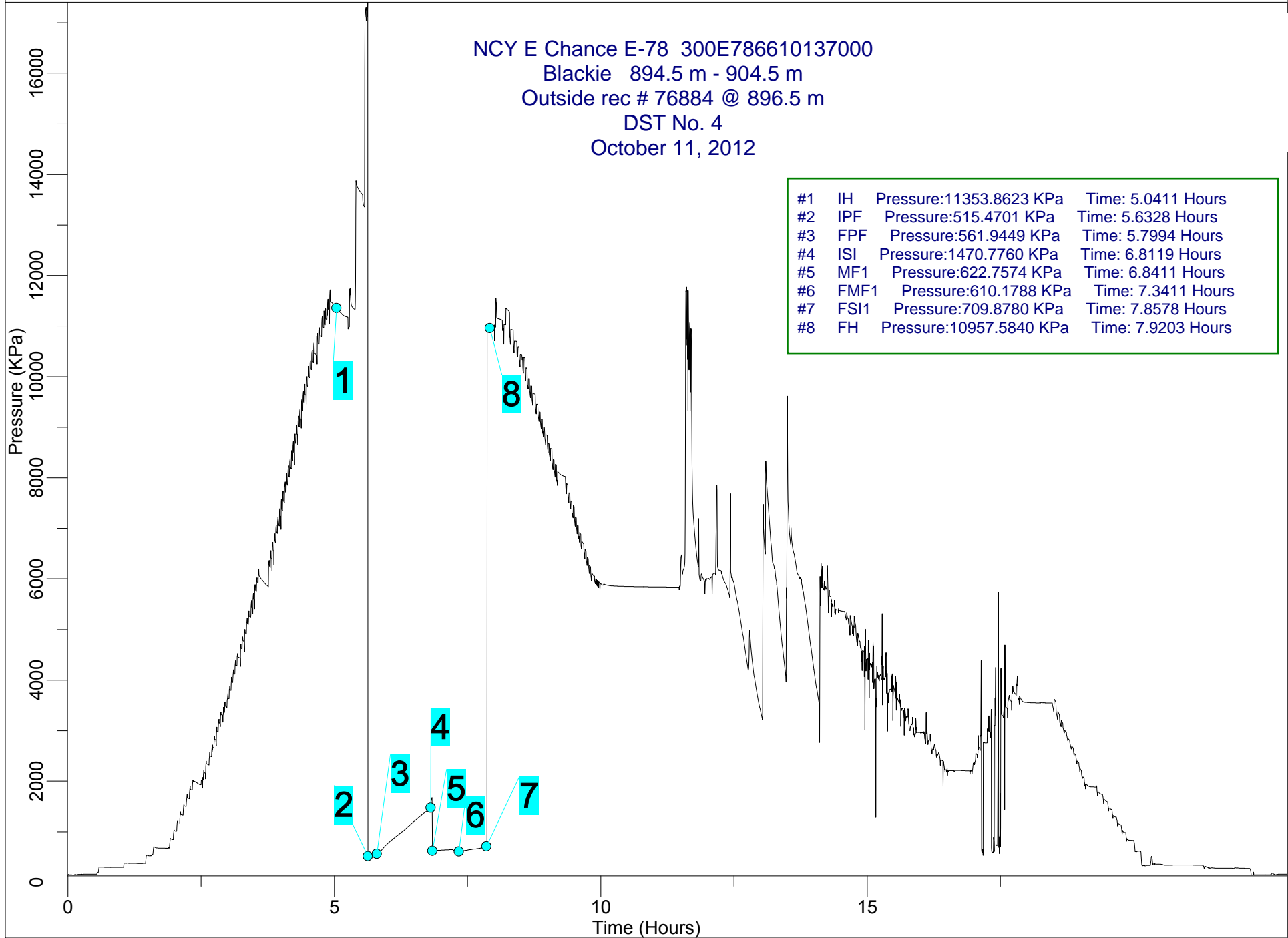
Company Representative: _____

Delta-P Test Corp



Delta-P Electro Chart Plot

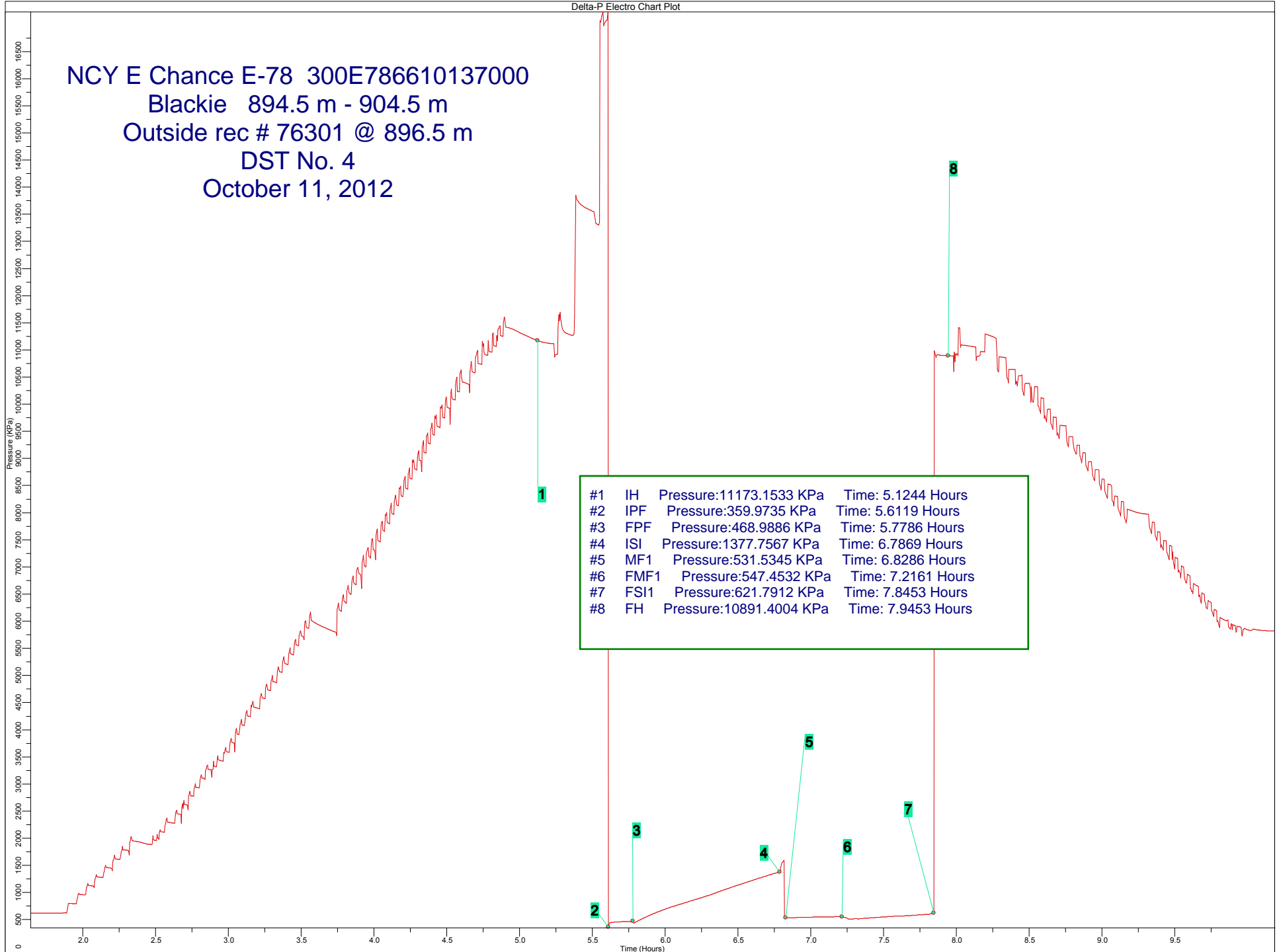
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Blackie 894.5 m - 904.5 m
Outside rec # 76884 @ 896.5 m
DST No. 4
October 11, 2012



Delta-P Test Corp

Delta-P Electro Chart Plot

NCY E Chance E-78 300E786610137000
Blackie 894.5 m - 904.5 m
Outside rec # 76301 @ 896.5 m
DST No. 4
October 11, 2012



Delta-P Test Corp.
REAL TIME REC. # 20 @ 886.5 m
DST #: 4 / Blackie / 894.5 m - 904.5 m
DATE: October 11, 2012

1: 10878
2: 190
3: 214
4: 1136
5: 282
6: 321
7: 379
8: 10626

NCY E Chance E-78 300E786610137000 **Linear Pressure Plot**

