



Delta-P Test Corp.

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**

Wednesday, October 10, 2012
NCY E Chance E-78
300E786610137000
Blackie / 894.5 m - 904.5 m
DST # 4



CLOSED CHAMBER REPORT SUMMARY

FLOW AND SHUT-IN TIMES (minutes)

Flow #1	= 10.3	Shut-In #1	= 60.0
Flow #2	= 30.0	Shut-In #2	= 30.0

FLOW RATES (m3/D)

		<u>GAS</u>	<u>LIQUID</u>
Flow #1	initial	0.00	0.65
	final	4.90	0.65
Flow #2	initial	4.60	0.33
	final	5.00	0.33

RECOVERY

<u>LENGTH (m)</u>	<u>VOLUME (m3)</u>	<u>LIQUID DENSITY</u>	<u>DESCRIPTION</u>
43.00	0.12	12.10	Drilling mud
43	0.12	12.10 (avg)	TOTAL RECOVERY

Wednesday, October 10, 2012
NCY E Chance E-78
300E786610137000
Blackie / 894.5 m - 904.5 m
DST # 4



COMMENTS

During the preflow the surface pressure increased from 98.02 kPa to 98.37 kPa through 10 minutes indicating very low rate liquid influx.

The surface pressure increased from 99.27 kPa to 100.03 on the main flow period through 30 minutes indicating very low rate liquid influx.

The top of the recovery was encountered at 43 m above the test tool and consisted of 43 m of drilling mud. A total of 10 m entered during this test, there was 7 m of mud in the test string prior to opening the tool for the preflow and the remaining 27 m entered when the tool opened while working tight hole on the trip out.

Analysis for liquid influx during this test was undertaken utilizing pressure data from the liquid recovery recorder # 77044 in conjunction with the surface pressure data. An iterative method of calculation has been employed that compares the two data files every fifteen seconds. A simple computation using the reported recovery indicates a recovery gradient of 12.1 kPa/m, which is reasonable for drilling mud and the reported recovery is therefore verified. Detailed calculations for the preflow period show that 3 m (0.0084 m³) entered and 7 m (0.0196 m³) entered during the main flow.

Detailed rates for both phases may be found in the following tables.

Recovery analysis:

Rw (ohm%_m @ 25 C

Mud tank sample	0.86
Top	0.89
Bottom	0.85

All Delta-P Test electronic recorders have been converted and included in this report.

The bottom hole temperature was recorder as 20 degrees Celsius.



Northern Cross (Yukon) Ltd.

October 10, 2012

NCY E Chance E-78
Blackie

300E786610137000
894.50 to 904.50 mKB

DST # 4
AFE#: 1c-020-D
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.
Main flow Comments:
See Closed Chamber, Telemetry Reports.
Additional Comments:

Recovery Information			
Lab Company			
Total Fluid Recovered	43 m		
Length	Description	Salinity (ppm)	pH
43 m	of Drilling mud		
Total Fluid Samples (Including mud tank sample)			
Bottom Hole Sampler Serial Numbers:		0 Sample Bottles	
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 # 4
AFE#: 1c-020-D0
Job#: 2008

Tool Description	Length	Ser#
	(m)	
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

Wednesday, October 10, 2012
 NCY E Chance E-78
 300E786610137000
 Blackie / 894.5 m - 904.5 m
 DST # 4



FLOW DATA

Test Time (24 Hr.)	Flow Time (min)	Surface Dp/Dt (KPa/mn)	Surface Pressure (KPabs)	Recovery Dp/Dt (KPa/mn)	Recovery Pressure (KPabs)	Liquid Rate (m3/D)	Gas Rate (m3/D)
Start Flow #1							
23:39:41	0.00	0.00	98.02	-	-	-	0.00
23:39:56	0.25	0.08	98.04	0.00	150.69	0.00	0.00
23:40:11	0.50	0.62	98.19	8.49	152.81	2.61	35.17
23:40:26	0.75	0.16	98.23	33.28	161.13	11.07	0.00
23:40:41	1.00	0.04	98.24	18.09	165.65	6.19	0.00
23:40:56	1.25	0.00	98.24	9.97	168.15	3.26	0.00
23:41:11	1.50	0.00	98.24	11.97	171.14	4.07	0.00
23:41:26	1.75	0.16	98.28	6.95	172.88	2.28	7.78
23:41:41	2.00	-0.08	98.26	5.69	174.30	1.95	0.00
23:41:56	2.25	0.16	98.30	3.71	175.23	1.14	8.92
23:42:11	2.50	0.00	98.30	3.91	176.20	1.30	0.00
23:42:26	2.75	-0.08	98.28	2.65	176.87	0.98	0.00
23:42:41	3.00	-0.08	98.26	3.20	177.67	1.14	0.00
23:42:56	3.25	0.16	98.30	2.34	178.25	0.65	9.41
23:43:11	3.50	0.00	98.30	2.66	178.92	0.98	0.00
23:43:26	3.75	0.00	98.30	2.01	179.42	0.65	0.00
23:43:41	4.00	0.00	98.30	2.35	180.01	0.81	0.00
23:43:56	4.25	0.00	98.30	1.85	180.47	0.65	0.00
23:44:11	4.50	0.08	98.32	2.06	180.99	0.65	4.37
23:44:26	4.75	-0.08	98.30	2.04	181.50	0.65	0.00
23:44:41	5.00	0.08	98.32	0.96	181.74	0.33	4.70
23:44:56	5.25	0.00	98.32	1.20	182.04	0.33	0.00
23:45:11	5.50	0.00	98.32	1.86	182.50	0.65	0.00
23:45:26	5.75	-0.08	98.30	2.35	183.09	0.81	0.00
23:45:41	6.00	0.08	98.32	0.44	183.20	0.16	4.87
23:45:56	6.25	0.00	98.32	1.97	183.69	0.65	0.00
23:46:11	6.50	0.12	98.35	0.92	183.92	0.33	7.22
23:46:26	6.75	-0.08	98.33	1.44	184.28	0.49	0.00
23:46:41	7.00	0.00	98.33	1.32	184.61	0.49	0.00
23:46:56	7.25	-0.12	98.30	2.21	185.17	0.81	0.00
23:47:11	7.50	0.12	98.33	2.43	185.77	0.65	6.89
23:47:26	7.75	0.08	98.35	1.62	186.18	0.49	4.54
23:47:41	8.00	0.00	98.35	1.25	186.49	0.49	0.00
23:47:56	8.25	-0.08	98.33	0.92	186.72	0.33	0.00

Wednesday, October 10, 2012
 NCY E Chance E-78
 300E786610137000
 Blackie / 894.5 m - 904.5 m
 DST # 4



Test Time (24 Hr.)	Flow Time (min)	Surface Dp/Dt (KPa/mn)	Surface Pressure (KPabs)	Recovery Dp/Dt (KPa/mn)	Recovery Pressure (KPabs)	Liquid Rate (m3/D)	Gas Rate (m3/D)
23:48:11	8.50	-0.04	98.32	1.59	187.12	0.49	0.00
23:48:26	8.75	0.04	98.33	0.78	187.31	0.33	2.19
23:48:41	9.00	0.00	98.33	0.82	187.52	0.33	0.00
23:48:56	9.25	0.08	98.35	2.30	188.09	0.65	4.37
23:49:11	9.50	-0.08	98.33	0.95	188.33	0.33	0.00
23:49:26	9.75	0.00	98.33	1.47	188.70	0.49	0.00
23:49:42	10.00	0.08	98.35	1.91	189.18	0.65	4.37
23:49:57	10.25	0.08	98.37	0.47	189.29	0.16	4.87

End Flow #1

23:50:12	0.25	-0.16	98.33	0.00	189.81	0.00	0.00
23:50:27	0.50	0.00	98.33	-3.38	188.96	0.00	0.00
23:50:42	0.75	-0.04	98.32	-19.97	183.97	0.00	0.00
23:50:57	1.00	0.04	98.33	-4.53	182.83	0.00	3.99
23:51:12	1.25	0.00	98.33	0.71	183.01	0.16	0.00
23:51:27	1.50	-0.04	98.32	-0.96	182.77	0.00	0.00
23:51:42	1.75	0.00	98.32	-0.22	182.72	0.00	0.00
23:51:57	2.00	0.00	98.32	0.13	182.75	0.00	0.00
23:52:12	2.25	0.00	98.32	0.30	182.82	0.16	0.00
23:52:27	2.50	0.00	98.32	-0.53	182.69	0.00	0.00
23:52:42	2.75	0.12	98.35	-0.39	182.59	0.00	7.71
23:52:57	3.00	0.00	98.35	-0.55	182.46	0.00	0.00
23:53:12	3.25	-0.08	98.33	-0.15	182.42	0.00	0.00
23:53:27	3.50	-0.04	98.32	-0.58	182.27	0.00	0.00
23:53:42	3.75	0.04	98.33	-0.32	182.19	0.00	2.52
23:53:57	4.00	0.00	98.33	-0.22	182.14	0.00	0.00
23:54:12	4.25	-0.04	98.32	-0.19	182.09	0.00	0.00
23:54:27	4.50	0.00	98.32	-0.06	182.07	0.00	0.00
23:54:42	4.75	0.00	98.32	-0.33	181.99	0.00	0.00
23:54:57	5.00	0.04	98.33	-0.90	181.77	0.00	2.84
23:55:12	5.25	0.00	98.33	0.38	181.86	0.16	0.00
23:55:27	5.50	0.00	98.33	-0.24	181.80	0.00	0.00
23:55:42	5.75	-0.04	98.32	-0.64	181.64	0.00	0.00
23:55:57	6.00	-0.08	98.30	-0.02	181.64	0.00	0.00
23:56:12	6.25	0.12	98.33	0.04	181.65	0.00	7.55
23:56:27	6.50	0.00	98.33	-0.30	181.57	0.00	0.00
23:56:42	6.75	0.00	98.33	-0.14	181.54	0.00	0.00
23:56:57	7.00	-0.04	98.32	0.03	181.55	0.00	0.00
23:57:12	7.25	0.00	98.32	-0.04	181.53	0.00	0.00

Wednesday, October 10, 2012
 NCY E Chance E-78
 300E786610137000
 Blackie / 894.5 m - 904.5 m
 DST # 4



Test Time (24 Hr.)	Flow Time (min)	Surface Dp/Dt (KPa/mn)	Surface Pressure (KPabs)	Recovery Dp/Dt (KPa/mn)	Recovery Pressure (KPabs)	Liquid Rate (m3/D)	Gas Rate (m3/D)
23:57:27	7.50	0.04	98.33	-0.39	181.44	0.00	2.68
23:57:42	7.75	0.00	98.33	-0.79	181.24	0.00	0.00
23:57:57	8.00	-0.04	98.32	-0.53	181.11	0.00	0.00
23:58:12	8.25	-0.08	98.30	0.51	181.24	0.16	0.00
23:58:27	8.50	0.08	98.32	1.13	181.52	0.33	4.70
23:58:42	8.75	-0.08	98.30	0.62	181.67	0.33	0.00
23:58:57	9.00	0.08	98.32	-0.16	181.63	0.00	5.19
23:59:12	9.25	-0.08	98.30	-0.33	181.55	0.00	0.00
23:59:27	9.50	0.12	98.33	-0.07	181.54	0.00	7.71
23:59:42	9.75	0.00	98.33	0.14	181.57	0.16	0.00
23:59:57	10.00	-0.12	98.30	0.12	181.60	0.00	0.00
00:00:12	10.25	0.08	98.32	-0.10	181.57	0.00	5.03
00:00:27	10.50	0.04	98.33	-0.06	181.56	0.00	2.68
00:00:42	10.75	-0.04	98.32	0.38	181.65	0.16	0.00
00:00:57	11.00	0.04	98.33	0.61	181.81	0.16	2.35
00:01:12	11.25	-0.04	98.32	0.61	181.96	0.33	0.00
00:01:27	11.50	0.00	98.32	0.70	182.13	0.16	0.00
00:01:42	11.75	0.00	98.32	0.37	182.22	0.16	0.00
00:01:57	12.00	0.04	98.33	0.37	182.32	0.16	2.35
00:02:12	12.25	0.08	98.35	0.41	182.42	0.00	5.03
00:02:27	12.50	-0.08	98.33	0.63	182.58	0.33	0.00
00:02:42	12.75	0.00	98.33	0.06	182.59	0.00	0.00
00:02:57	13.00	0.00	98.33	0.30	182.67	0.16	0.00
00:03:12	13.25	-0.04	98.32	0.70	182.84	0.16	0.00
00:03:27	13.50	0.12	98.35	0.62	183.00	0.16	7.38
00:03:42	13.75	-0.08	98.33	0.46	183.11	0.16	0.00
00:03:57	14.00	0.16	98.37	0.15	183.15	0.00	10.06
00:04:12	14.25	0.00	98.37	0.75	183.34	0.33	0.00
00:04:27	14.50	0.00	98.37	0.01	183.34	0.00	0.00
00:04:42	14.75	0.16	98.41	0.23	183.40	0.00	10.06
00:04:57	15.00	0.08	98.43	0.68	183.57	0.16	4.87
00:05:12	15.25	-0.08	98.41	0.28	183.64	0.16	0.00
00:05:27	15.50	-0.08	98.39	0.45	183.75	0.16	0.00
00:05:42	15.75	0.00	98.39	0.83	183.96	0.33	0.00
00:05:57	16.00	0.16	98.43	0.12	183.99	0.00	10.06
00:06:12	16.25	-0.08	98.41	0.36	184.08	0.16	0.00
00:06:27	16.50	-0.08	98.39	-0.08	184.06	0.00	0.00
00:06:42	16.75	0.08	98.41	0.57	184.20	0.16	4.87
00:06:57	17.00	0.00	98.41	0.65	184.36	0.16	0.00
00:07:12	17.25	0.00	98.41	0.07	184.38	0.00	0.00
00:07:27	17.50	0.00	98.41	0.25	184.44	0.16	0.00

Wednesday, October 10, 2012
 NCY E Chance E-78
 300E786610137000
 Blackie / 894.5 m - 904.5 m
 DST # 4



Test Time (24 Hr.)	Flow Time (min)	Surface Dp/Dt (KPa/mn)	Surface Pressure (KPabs)	Recovery Dp/Dt (KPa/mn)	Recovery Pressure (KPabs)	Liquid Rate (m3/D)	Gas Rate (m3/D)
00:07:42	17.75	0.08	98.43	0.30	184.52	0.00	5.03
00:07:57	18.00	-0.08	98.41	0.46	184.63	0.16	0.00
00:08:12	18.25	-0.08	98.39	-0.23	184.57	0.00	0.00
00:08:27	18.50	0.08	98.41	-0.84	184.36	0.00	5.36
00:08:42	18.75	0.12	98.44	1.25	184.68	0.33	7.22
00:08:57	19.00	-0.04	98.43	1.68	185.10	0.65	0.00
00:09:12	19.25	-0.08	98.41	2.92	185.83	0.98	0.00
00:09:27	19.50	0.08	98.43	2.11	186.35	0.65	4.37
00:09:42	19.75	-0.08	98.41	1.58	186.75	0.65	0.00
00:09:57	20.00	0.12	98.44	0.49	186.87	0.00	7.55
00:10:12	20.25	-0.04	98.43	0.72	187.05	0.33	0.00
00:10:27	20.50	-0.08	98.41	0.45	187.16	0.16	0.00
00:10:42	20.75	0.12	98.44	-0.03	187.16	0.00	7.55
00:10:57	21.00	-0.04	98.43	0.41	187.26	0.16	0.00
00:11:12	21.25	0.00	98.43	-0.31	187.18	0.00	0.00
00:11:27	21.50	0.00	98.43	0.26	187.25	0.16	0.00
00:11:42	21.75	0.04	98.44	0.51	187.37	0.16	2.35
00:11:57	22.00	-0.04	98.43	0.26	187.44	0.00	0.00
00:12:12	22.25	0.04	98.44	-0.19	187.39	0.00	2.52
00:12:27	22.50	-0.04	98.43	-0.50	187.27	0.00	0.00
00:12:42	22.75	0.04	98.44	0.18	187.31	0.00	2.52
00:12:57	23.00	-0.04	98.43	0.41	187.41	0.16	0.00
00:13:12	23.25	0.00	98.43	-0.08	187.39	0.00	0.00
00:13:27	23.50	0.04	98.44	0.34	187.48	0.00	2.52
00:13:42	23.75	0.00	98.44	0.40	187.58	0.16	0.00
00:13:57	24.00	0.08	98.46	0.17	187.62	0.00	5.03
00:14:12	24.25	-0.12	98.43	-0.05	187.61	0.00	0.00
00:14:27	24.50	0.04	98.44	0.49	187.73	0.00	2.52
00:14:42	24.75	0.00	98.44	0.11	187.76	0.16	0.00
00:14:57	25.00	0.08	98.46	0.10	187.78	0.00	5.03
00:15:12	25.25	-0.12	98.43	0.26	187.85	0.16	0.00
00:15:27	25.50	0.12	98.46	0.61	188.00	0.16	7.38
00:15:42	25.75	0.08	98.48	0.71	188.18	0.16	4.87
00:15:57	26.00	0.00	98.48	0.34	188.26	0.16	0.00
00:16:12	26.25	0.08	98.50	0.88	188.49	0.16	4.87
00:16:27	26.50	0.08	98.52	1.21	188.79	0.33	4.70
00:16:42	26.75	-0.08	98.50	0.61	188.94	0.33	0.00
00:16:57	27.00	0.16	98.54	0.99	189.19	0.33	9.73
00:17:12	27.25	0.00	98.54	1.33	189.52	0.33	0.00
00:17:27	27.50	0.00	98.54	0.43	189.63	0.16	0.00

Wednesday, October 10, 2012
 NCY E Chance E-78
 300E786610137000
 Blackie / 894.5 m - 904.5 m
 DST # 4



Test Time (24 Hr.)	Flow Time (min)	Surface Dp/Dt (KPa/mn)	Surface Pressure (KPabs)	Recovery Dp/Dt (KPa/mn)	Recovery Pressure (KPabs)	Liquid Rate (m3/D)	Gas Rate (m3/D)
00:17:42	27.75	0.04	98.55	0.82	189.83	0.33	2.19
00:17:57	28.00	-0.04	98.54	0.67	190.00	0.16	0.00
00:18:12	28.25	-0.08	98.52	-0.26	189.93	0.00	0.00
00:18:27	28.50	0.08	98.54	-0.45	189.82	0.00	5.19
00:18:42	28.75	0.00	98.54	0.39	189.92	0.16	0.00
00:18:57	29.00	0.04	98.55	1.12	190.20	0.33	2.19
00:19:12	29.25	0.00	98.55	-0.13	190.17	0.00	0.00
00:19:27	29.50	-0.12	98.52	0.07	190.18	0.00	0.00
00:19:42	29.75	0.12	98.55	0.59	190.33	0.16	7.38
00:19:57	30.00	-0.04	98.54	-0.22	190.28	0.00	0.00
00:20:12	30.25	0.04	98.55	-0.24	190.22	0.00	2.68
00:20:27	30.50	0.08	98.57	0.46	190.33	0.16	4.86
00:20:42	30.75	-0.08	98.55	-0.24	190.27	0.00	0.00
00:20:57	31.00	0.08	98.57	-0.61	190.12	0.00	5.19
00:21:12	31.25	0.00	98.57	-0.02	190.11	0.00	0.00
00:21:27	31.50	0.00	98.57	0.44	190.22	0.16	0.00
00:21:42	31.75	0.00	98.57	0.41	190.33	0.16	0.00
00:21:57	32.00	0.00	98.57	0.41	190.43	0.16	0.00
00:22:12	32.25	-0.12	98.54	-0.20	190.38	0.00	0.00
00:22:27	32.50	0.04	98.55	0.46	190.49	0.16	2.35
00:22:42	32.75	0.08	98.57	-0.46	190.38	0.00	5.19
00:22:57	33.00	0.00	98.57	-0.20	190.33	0.00	0.00
00:23:12	33.25	0.00	98.57	0.11	190.36	0.00	0.00
00:23:27	33.50	0.00	98.57	0.29	190.43	0.16	0.00
00:23:42	33.75	-0.08	98.55	-0.25	190.37	0.00	0.00
00:23:57	34.00	0.00	98.55	0.77	190.56	0.33	0.00
00:24:13	34.25	0.00	98.55	-0.36	190.47	0.00	0.00
00:24:28	34.50	0.08	98.57	0.20	190.52	0.00	5.03
00:24:43	34.75	-0.12	98.54	0.23	190.58	0.16	0.00
00:24:58	35.00	0.21	98.59	0.73	190.76	0.16	12.41
00:25:13	35.25	0.08	98.61	-0.37	190.67	0.00	5.20
00:25:28	35.50	0.00	98.61	0.18	190.71	0.16	0.00
00:25:43	35.75	0.16	98.65	0.02	190.72	0.00	10.22
00:25:58	36.00	-0.16	98.61	-0.02	190.71	0.00	0.00
00:26:13	36.25	0.08	98.63	-0.32	190.63	0.00	5.19
00:26:28	36.50	0.08	98.65	-0.38	190.53	0.00	5.19
00:26:43	36.75	0.00	98.65	0.15	190.57	0.00	0.00
00:26:58	37.00	0.00	98.65	0.16	190.61	0.00	0.00
00:27:13	37.25	0.00	98.65	0.52	190.74	0.16	0.00
00:27:28	37.50	0.00	98.65	-0.03	190.73	0.00	0.00

Wednesday, October 10, 2012
 NCY E Chance E-78
 300E786610137000
 Blackie / 894.5 m - 904.5 m
 DST # 4



Test Time (24 Hr.)	Flow Time (min)	Surface Dp/Dt (KPa/mn)	Surface Pressure (KPabs)	Recovery Dp/Dt (KPa/mn)	Recovery Pressure (KPabs)	Liquid Rate (m3/D)	Gas Rate (m3/D)
00:27:43	37.75	0.00	98.65	0.26	190.80	0.16	0.00
00:27:58	38.00	0.00	98.65	-0.35	190.71	0.00	0.00
00:28:13	38.25	0.04	98.66	-0.40	190.61	0.00	2.68
00:28:28	38.50	0.00	98.66	0.32	190.69	0.16	0.00
00:28:43	38.75	-0.04	98.65	0.20	190.74	0.00	0.00
00:28:58	39.00	0.21	98.70	-0.28	190.67	0.00	12.74
00:29:13	39.25	-0.16	98.66	0.13	190.70	0.16	0.00
00:29:28	39.50	0.08	98.68	0.33	190.79	0.16	4.86
00:29:43	39.75	0.00	98.68	-0.13	190.75	0.00	0.00
00:29:58	40.00	0.00	98.68	0.32	190.83	0.16	0.00
00:30:13	40.25	0.00	98.68	0.03	190.84	0.00	0.00
00:30:28	40.50	0.00	98.68	-0.20	190.79	0.00	0.00
00:30:43	40.75	0.08	98.70	0.10	190.81	0.00	5.03
00:30:58	41.00	0.00	98.70	0.23	190.87	0.00	0.00
00:31:13	41.25	0.08	98.72	0.14	190.91	0.00	5.03
00:31:28	41.50	0.12	98.75	0.36	191.00	0.16	7.38
00:31:43	41.75	0.08	98.77	0.38	191.09	0.00	5.03
00:31:58	42.00	0.00	98.77	-0.17	191.05	0.00	0.00
00:32:13	42.25	0.16	98.81	0.16	191.09	0.00	10.06
00:32:28	42.50	-0.08	98.79	0.43	191.20	0.16	0.00
00:32:43	42.75	-0.08	98.77	0.22	191.25	0.16	0.00
00:32:58	43.00	0.08	98.79	0.95	191.49	0.16	4.87
00:33:13	43.25	0.08	98.81	1.66	191.90	0.65	4.37
00:33:28	43.50	0.00	98.81	1.77	192.35	0.49	0.00
00:33:43	43.75	-0.08	98.79	1.57	192.74	0.65	0.00
00:33:58	44.00	0.00	98.79	1.33	193.07	0.33	0.00
00:34:13	44.25	0.00	98.79	1.19	193.37	0.49	0.00
00:34:28	44.50	0.08	98.81	0.41	193.47	0.16	4.86
00:34:43	44.75	0.00	98.81	0.02	193.48	0.00	0.00
00:34:58	45.00	0.00	98.81	0.35	193.56	0.00	0.00
00:35:13	45.25	0.08	98.83	0.28	193.63	0.16	4.87
00:35:28	45.50	0.08	98.85	0.15	193.67	0.00	5.03
00:35:43	45.75	-0.08	98.83	0.39	193.77	0.16	0.00
00:35:58	46.00	-0.08	98.81	0.02	193.77	0.00	0.00
00:36:13	46.25	0.08	98.83	-0.28	193.70	0.00	5.20
00:36:28	46.50	0.00	98.83	0.74	193.89	0.33	0.00
00:36:43	46.75	0.00	98.83	0.00	193.89	0.00	0.00
00:36:58	47.00	0.00	98.83	0.05	193.90	0.00	0.00
00:37:13	47.25	0.08	98.85	0.37	194.00	0.16	4.86
00:37:28	47.50	0.12	98.88	0.98	194.24	0.16	7.38

Wednesday, October 10, 2012
 NCY E Chance E-78
 300E786610137000
 Blackie / 894.5 m - 904.5 m
 DST # 4



Test Time (24 Hr.)	Flow Time (min)	Surface Dp/Dt (KPa/mn)	Surface Pressure (KPabs)	Recovery Dp/Dt (KPa/mn)	Recovery Pressure (KPabs)	Liquid Rate (m3/D)	Gas Rate (m3/D)
00:37:43	47.75	0.08	98.90	1.14	194.53	0.33	4.70
00:37:58	48.00	0.00	98.90	1.60	194.92	0.65	0.00
00:38:13	48.25	0.08	98.92	1.33	195.26	0.33	4.70
00:38:28	48.50	0.08	98.94	0.54	195.39	0.16	4.87
00:38:43	48.75	0.00	98.94	0.96	195.63	0.33	0.00
00:38:58	49.00	0.08	98.96	0.67	195.80	0.16	4.86
00:39:13	49.25	-0.08	98.94	0.38	195.89	0.16	0.00
00:39:28	49.50	0.00	98.94	0.22	195.95	0.16	0.00
00:39:43	49.75	0.00	98.94	0.77	196.14	0.16	0.00
00:39:58	50.00	0.08	98.96	0.82	196.34	0.33	4.70
00:40:13	50.25	-0.16	98.92	0.52	196.47	0.16	0.00
00:40:28	50.50	0.21	98.97	-0.10	196.45	0.00	12.57
00:40:43	50.75	0.00	98.97	0.56	196.59	0.16	0.00
00:40:58	51.00	-0.04	98.96	0.29	196.66	0.16	0.00
00:41:13	51.25	0.04	98.97	-0.35	196.57	0.00	2.68

End Shut-In #1

00:41:28	0.25	0.00	98.97	-	-	-	0.00
00:41:43	0.50	0.08	98.99	-	-	-	5.13
00:41:58	0.75	-0.08	98.97	-	-	-	0.00
00:42:13	1.00	0.00	98.97	-	-	-	0.00
00:42:28	1.25	0.16	99.01	-	-	-	10.27
00:42:43	1.50	-0.08	98.99	-	-	-	0.00
00:42:58	1.75	-0.08	98.97	-	-	-	0.00
00:43:13	2.00	0.00	98.97	-	-	-	0.00
00:43:28	2.25	0.08	98.99	-	-	-	5.13
00:43:43	2.50	0.25	99.05	-	-	-	15.40
00:43:58	2.75	0.00	99.05	-	-	-	0.00
00:44:13	3.00	0.08	99.07	-	-	-	5.13
00:44:28	3.25	0.04	99.08	-	-	-	2.57
00:44:43	3.50	0.00	99.08	-	-	-	0.00
00:44:58	3.75	0.08	99.10	-	-	-	5.13
00:45:13	4.00	0.16	99.14	-	-	-	10.27
00:45:28	4.25	-0.08	99.12	-	-	-	0.00
00:45:43	4.50	0.08	99.14	-	-	-	5.13
00:45:58	4.75	0.00	99.14	-	-	-	0.00
00:46:13	5.00	-0.08	99.12	-	-	-	0.00
00:46:28	5.25	0.00	99.12	-	-	-	0.00
00:46:43	5.50	0.08	99.14	-	-	-	5.13

Wednesday, October 10, 2012
 NCY E Chance E-78
 300E786610137000
 Blackie / 894.5 m - 904.5 m
 DST # 4



Test Time (24 Hr.)	Flow Time (min)	Surface Dp/Dt (KPa/mn)	Surface Pressure (KPabs)	Recovery Dp/Dt (KPa/mn)	Recovery Pressure (KPabs)	Liquid Rate (m3/D)	Gas Rate (m3/D)
00:46:58	5.75	-0.08	99.12	-	-	-	0.00
00:47:13	6.00	0.08	99.14	-	-	-	5.13
00:47:28	6.25	0.08	99.16	-	-	-	5.14
00:47:43	6.50	-0.16	99.12	-	-	-	0.00
00:47:58	6.75	0.16	99.16	-	-	-	10.27
00:48:13	7.00	-0.08	99.14	-	-	-	0.00
00:48:28	7.25	0.08	99.16	-	-	-	5.14
00:48:43	7.50	0.00	99.16	-	-	-	0.00
00:48:58	7.75	-0.08	99.14	-	-	-	0.00
00:49:13	8.00	0.08	99.16	-	-	-	5.14
00:49:28	8.25	0.08	99.18	-	-	-	5.13
00:49:43	8.50	-0.08	99.16	-	-	-	0.00
00:49:58	8.75	0.00	99.16	-	-	-	0.00
00:50:13	9.00	-0.08	99.14	-	-	-	0.00
00:50:28	9.25	0.08	99.16	-	-	-	5.14
00:50:43	9.50	0.12	99.19	-	-	-	7.70
00:50:58	9.75	-0.04	99.18	-	-	-	0.00
00:51:13	10.00	0.21	99.23	-	-	-	12.83
00:51:28	10.25	0.16	99.27	-	-	-	10.27
00:51:43	10.50	0.04	99.28	-	-	-	2.57

Start Flow #2

00:51:58	0.00	-0.04	99.27	-	-	-	0.00
00:52:13	0.25	0.04	99.28	0.00	200.05	0.00	0.00
00:52:28	0.50	0.62	99.43	29.00	207.30	9.45	28.09
00:52:43	0.75	0.25	99.49	158.63	246.96	53.42	0.00
00:52:58	1.00	0.00	99.49	12.57	250.10	4.23	0.00
00:53:13	1.25	0.00	99.49	3.71	251.03	1.14	0.00
00:53:28	1.50	0.12	99.52	1.86	251.49	0.65	6.86
00:53:43	1.75	-0.08	99.50	1.26	251.81	0.49	0.00
00:53:58	2.00	0.08	99.52	0.96	252.05	0.33	4.68
00:54:13	2.25	0.08	99.54	1.03	252.30	0.33	4.69
00:54:28	2.50	0.00	99.54	1.58	252.70	0.49	0.00
00:54:43	2.75	-0.08	99.52	0.34	252.79	0.16	0.00
00:54:58	3.00	0.08	99.54	0.49	252.91	0.16	4.85
00:55:13	3.25	-0.08	99.52	0.56	253.05	0.16	0.00
00:55:28	3.50	0.16	99.56	1.12	253.33	0.33	9.70
00:55:43	3.75	0.08	99.58	1.01	253.58	0.33	4.68
00:55:58	4.00	-0.16	99.54	0.36	253.67	0.16	0.00

Wednesday, October 10, 2012
 NCY E Chance E-78
 300E786610137000
 Blackie / 894.5 m - 904.5 m
 DST # 4



Test Time (24 Hr.)	Flow Time (min)	Surface Dp/Dt (KPa/mn)	Surface Pressure (KPabs)	Recovery Dp/Dt (KPa/mn)	Recovery Pressure (KPabs)	Liquid Rate (m3/D)	Gas Rate (m3/D)
00:56:13	4.25	0.16	99.58	0.44	253.78	0.00	10.03
00:56:28	4.50	0.00	99.58	0.46	253.90	0.16	0.00
00:56:43	4.75	0.00	99.58	0.97	254.14	0.33	0.00
00:56:58	5.00	0.00	99.58	1.35	254.48	0.49	0.00
00:57:13	5.25	0.08	99.60	0.91	254.71	0.33	4.68
00:57:28	5.50	-0.08	99.58	0.75	254.89	0.33	0.00
00:57:43	5.75	0.08	99.60	0.94	255.13	0.16	4.85
00:57:58	6.00	-0.08	99.58	1.32	255.46	0.49	0.00
00:58:14	6.25	0.00	99.58	1.69	255.88	0.65	0.00
00:58:28	6.50	0.08	99.60	1.16	256.17	0.33	4.68
00:58:44	6.75	0.12	99.63	1.34	256.51	0.49	7.02
00:58:59	7.00	0.00	99.63	1.28	256.83	0.33	0.00
00:59:14	7.25	-0.12	99.60	0.71	257.00	0.33	0.00
00:59:29	7.50	0.04	99.61	0.40	257.11	0.16	2.34
00:59:44	7.75	0.08	99.63	0.92	257.34	0.16	4.85
00:59:59	8.00	-0.08	99.61	1.53	257.72	0.65	0.00
01:00:14	8.25	0.00	99.61	1.07	257.99	0.33	0.00
01:00:29	8.50	0.16	99.65	0.92	258.22	0.16	9.86
01:00:44	8.75	-0.16	99.61	0.98	258.46	0.49	0.00
01:00:59	9.00	0.16	99.65	1.06	258.72	0.33	9.70
01:01:14	9.25	0.00	99.65	0.65	258.89	0.16	0.00
01:01:29	9.50	0.00	99.65	0.68	259.06	0.16	0.00
01:01:44	9.75	0.00	99.65	0.94	259.29	0.33	0.00
01:01:59	10.00	0.00	99.65	0.71	259.47	0.33	0.00
01:02:14	10.25	0.00	99.65	0.98	259.71	0.33	0.00
01:02:29	10.50	0.08	99.67	1.18	260.01	0.33	4.68
01:02:44	10.75	0.00	99.67	0.80	260.21	0.33	0.00
01:02:59	11.00	0.08	99.69	1.17	260.50	0.33	4.68
01:03:14	11.25	0.00	99.69	1.21	260.80	0.33	0.00
01:03:29	11.50	0.04	99.70	0.73	260.98	0.33	2.17
01:03:44	11.75	-0.04	99.69	1.12	261.26	0.33	0.00
01:03:59	12.00	0.04	99.70	1.00	261.51	0.33	2.17
01:04:14	12.25	0.16	99.74	1.29	261.84	0.49	9.53
01:04:29	12.50	-0.21	99.69	1.02	262.09	0.33	0.00
01:04:44	12.75	0.21	99.74	1.07	262.36	0.33	12.20
01:04:59	13.00	0.00	99.74	0.52	262.49	0.16	0.00
01:05:14	13.25	-0.16	99.70	1.42	262.84	0.49	0.00
01:05:29	13.50	0.08	99.72	1.04	263.10	0.33	4.68
01:05:44	13.75	0.00	99.72	0.49	263.23	0.16	0.00
01:05:59	14.00	0.16	99.76	0.28	263.29	0.00	10.03

Wednesday, October 10, 2012
 NCY E Chance E-78
 300E786610137000
 Blackie / 894.5 m - 904.5 m
 DST # 4



Test Time (24 Hr.)	Flow Time (min)	Surface Dp/Dt (KPa/mn)	Surface Pressure (KPabs)	Recovery Dp/Dt (KPa/mn)	Recovery Pressure (KPabs)	Liquid Rate (m3/D)	Gas Rate (m3/D)
01:06:29	14.50	0.00	99.76	0.88	263.61	0.33	0.00
01:06:44	14.75	0.00	99.76	0.49	263.73	0.16	0.00
01:06:59	15.00	0.08	99.78	1.15	264.02	0.33	4.68
01:07:14	15.25	0.12	99.81	0.47	264.14	0.16	7.35
01:07:29	15.50	-0.08	99.79	0.45	264.25	0.16	0.00
01:07:44	15.75	0.08	99.81	0.88	264.47	0.33	4.68
01:07:59	16.00	-0.08	99.79	0.50	264.60	0.16	0.00
01:08:14	16.25	0.08	99.81	1.42	264.95	0.49	4.51
01:08:29	16.50	0.00	99.81	0.30	265.03	0.00	0.00
01:08:44	16.75	0.08	99.83	-0.07	265.01	0.00	5.01
01:08:59	17.00	0.00	99.83	0.78	265.20	0.33	0.00
01:09:14	17.25	0.08	99.85	1.13	265.49	0.33	4.68
01:09:29	17.50	-0.08	99.83	0.43	265.60	0.16	0.00
01:09:44	17.75	0.08	99.85	-0.19	265.55	0.00	5.18
01:09:59	18.00	0.08	99.87	0.87	265.77	0.33	4.68
01:10:14	18.25	-0.08	99.85	1.30	266.09	0.49	0.00
01:10:29	18.50	0.00	99.85	0.63	266.25	0.16	0.00
01:10:44	18.75	0.08	99.87	0.21	266.30	0.00	5.01
01:10:59	19.00	0.08	99.89	0.33	266.38	0.16	4.84
01:11:14	19.25	0.00	99.89	0.63	266.54	0.16	0.00
01:11:29	19.50	0.00	99.89	0.28	266.61	0.16	0.00
01:11:44	19.75	0.08	99.91	1.16	266.90	0.33	4.68
01:11:59	20.00	0.00	99.91	1.12	267.18	0.33	0.00
01:12:14	20.25	0.04	99.92	0.44	267.29	0.16	2.34
01:12:29	20.50	0.00	99.92	0.04	267.30	0.00	0.00
01:12:44	20.75	0.00	99.92	0.37	267.39	0.16	0.00
01:12:59	21.00	0.08	99.94	0.71	267.57	0.16	4.85
01:13:14	21.25	0.08	99.96	0.81	267.77	0.33	4.68
01:13:29	21.50	-0.08	99.94	0.97	268.02	0.33	0.00
01:13:44	21.75	0.00	99.94	0.21	268.07	0.00	0.00
01:13:59	22.00	0.08	99.96	0.30	268.14	0.16	4.84
01:14:14	22.25	0.00	99.96	0.94	268.38	0.33	0.00
01:14:29	22.50	0.00	99.96	0.51	268.51	0.16	0.00
01:14:44	22.75	0.16	100.00	0.49	268.63	0.00	10.02
01:14:59	23.00	0.00	100.00	0.85	268.84	0.33	0.00
01:15:14	23.25	-0.08	99.98	0.83	269.05	0.33	0.00
01:15:29	23.50	0.00	99.98	0.56	269.19	0.16	0.00
01:15:44	23.75	0.08	100.00	1.37	269.53	0.49	4.51
01:15:59	24.00	0.08	100.02	2.32	270.11	0.65	4.34
01:16:14	24.25	0.00	100.02	3.28	270.93	1.14	0.00

Wednesday, October 10, 2012
 NCY E Chance E-78
 300E786610137000
 Blackie / 894.5 m - 904.5 m
 DST # 4



Test Time (24 Hr.)	Flow Time (min)	Surface Dp/Dt (KPa/mn)	Surface Pressure (KPabs)	Recovery Dp/Dt (KPa/mn)	Recovery Pressure (KPabs)	Liquid Rate (m3/D)	Gas Rate (m3/D)
01:16:29	24.50	0.00	100.02	2.50	271.55	0.81	0.00
01:16:44	24.75	0.12	100.05	2.37	272.15	0.81	6.68
01:16:59	25.00	-0.21	100.00	1.67	272.57	0.65	0.00
01:17:14	25.25	0.08	100.02	0.66	272.73	0.16	4.84
01:17:29	25.50	0.00	100.02	0.28	272.80	0.16	0.00
01:17:44	25.75	0.04	100.03	1.31	273.13	0.33	2.17
01:17:59	26.00	-0.04	100.02	1.89	273.60	0.65	0.00
01:18:14	26.25	0.12	100.05	1.51	273.98	0.49	7.02
01:18:29	26.50	0.08	100.07	2.88	274.70	0.98	4.01
01:18:44	26.75	0.00	100.07	2.13	275.23	0.65	0.00
01:18:59	27.00	0.00	100.07	0.89	275.45	0.33	0.00
01:19:14	27.25	-0.08	100.05	0.85	275.67	0.33	0.00
01:19:29	27.50	0.16	100.09	3.48	276.54	1.14	8.85
01:19:44	27.75	-0.16	100.05	-1.97	276.04	0.00	0.00
01:19:59	28.00	0.08	100.07	-6.05	274.53	0.00	7.01
01:20:14	28.25	0.08	100.09	-1.37	274.19	0.00	5.51
01:20:29	28.50	-0.08	100.07	-0.94	273.95	0.00	0.00
01:20:44	28.75	-0.08	100.05	0.26	274.02	0.16	0.00
01:20:59	29.00	0.08	100.07	-0.28	273.95	0.00	5.18
01:21:14	29.25	0.08	100.09	-0.66	273.78	0.00	5.34
01:21:29	29.50	-0.16	100.05	-0.06	273.77	0.00	0.00
01:21:44	29.75	0.00	100.05	0.84	273.98	0.33	0.00
01:21:59	30.00	-0.08	100.03	2.22	274.53	0.81	0.00

End Flow #2

01:22:14	0.25	0.00	100.03	0.00	275.06	0.00	0.00
01:22:29	0.50	0.00	100.03	-31.30	267.24	0.00	0.00
01:22:44	0.75	0.00	100.03	-14.99	263.49	0.00	0.00
01:22:59	1.00	-0.12	100.00	-1.17	263.20	0.00	0.00
01:23:14	1.25	0.08	100.02	-0.35	263.11	0.00	5.01
01:23:29	1.50	-0.08	100.00	-0.18	263.07	0.00	0.00
01:23:44	1.75	0.08	100.02	-0.00	263.07	0.00	5.01
01:23:59	2.00	0.00	100.02	0.33	263.15	0.16	0.00
01:24:14	2.25	0.00	100.02	0.21	263.20	0.00	0.00
01:24:29	2.50	0.00	100.02	0.10	263.23	0.16	0.00
01:24:44	2.75	0.00	100.02	-0.08	263.21	0.00	0.00
01:24:59	3.00	0.00	100.02	-0.20	263.16	0.00	0.00
01:25:14	3.25	-0.08	100.00	-0.09	263.14	0.00	0.00
01:25:29	3.50	0.08	100.02	0.18	263.18	0.00	5.01

Wednesday, October 10, 2012
 NCY E Chance E-78
 300E786610137000
 Blackie / 894.5 m - 904.5 m
 DST # 4



Test Time (24 Hr.)	Flow Time (min)	Surface Dp/Dt (KPa/mn)	Surface Pressure (KPabs)	Recovery Dp/Dt (KPa/mn)	Recovery Pressure (KPabs)	Liquid Rate (m3/D)	Gas Rate (m3/D)
01:25:44	3.75	0.00	100.02	-0.41	263.08	0.00	0.00
01:25:59	4.00	0.00	100.02	-0.11	263.05	0.00	0.00
01:26:14	4.25	0.00	100.02	0.40	263.15	0.16	0.00
01:26:29	4.50	-0.08	100.00	-0.29	263.08	0.00	0.00
01:26:44	4.75	0.00	100.00	-0.19	263.03	0.00	0.00
01:26:59	5.00	0.08	100.02	-0.07	263.01	0.00	5.01
01:27:14	5.25	0.12	100.05	-0.24	262.95	0.00	7.69
01:27:29	5.50	-0.21	100.00	0.06	262.97	0.16	0.00
01:27:44	5.75	0.00	100.00	0.19	263.02	0.00	0.00
01:27:59	6.00	0.08	100.02	-0.18	262.97	0.00	5.18
01:28:14	6.25	-0.16	99.98	0.18	263.02	0.16	0.00
01:28:29	6.50	0.16	100.02	0.17	263.06	0.00	10.02
01:28:44	6.75	0.00	100.02	-0.43	262.95	0.00	0.00
01:28:59	7.00	0.00	100.02	-0.13	262.92	0.00	0.00
01:29:14	7.25	0.04	100.03	-0.28	262.85	0.00	2.67
01:29:29	7.50	-0.04	100.02	-0.80	262.65	0.00	0.00
01:29:44	7.75	0.00	100.02	0.43	262.76	0.16	0.00
01:29:59	8.00	0.04	100.03	0.40	262.86	0.00	2.51
01:30:14	8.25	0.08	100.05	0.04	262.87	0.00	5.01
01:30:29	8.50	-0.08	100.03	0.10	262.89	0.16	0.00
01:30:44	8.75	-0.04	100.02	-0.23	262.84	0.00	0.00
01:30:59	9.00	0.04	100.03	-0.58	262.69	0.00	2.67
01:31:14	9.25	0.00	100.03	-0.79	262.49	0.00	0.00
01:31:29	9.50	0.08	100.05	0.25	262.56	0.16	4.85
01:31:44	9.75	0.08	100.07	0.89	262.78	0.16	4.84
01:31:59	10.00	-0.08	100.05	-0.19	262.73	0.00	0.00
01:32:15	10.25	0.00	100.05	-0.12	262.70	0.00	0.00
01:32:29	10.50	0.00	100.05	-0.01	262.70	0.00	0.00
01:32:45	10.75	-0.08	100.03	0.25	262.76	0.16	0.00
01:33:00	11.00	0.00	100.03	-0.23	262.71	0.00	0.00
01:33:15	11.25	0.16	100.07	-0.33	262.62	0.00	10.19
01:33:30	11.50	0.00	100.07	-0.19	262.58	0.00	0.00
01:33:45	11.75	0.00	100.07	0.37	262.67	0.00	0.00
01:34:00	12.00	-0.08	100.05	0.31	262.75	0.16	0.00
01:34:15	12.25	0.08	100.07	0.02	262.75	0.00	5.01
01:34:30	12.50	0.08	100.09	-0.60	262.60	0.00	5.18
01:34:45	12.75	-0.16	100.05	-0.48	262.48	0.00	0.00
01:35:00	13.00	0.00	100.05	-0.27	262.41	0.00	0.00
01:35:15	13.25	0.00	100.05	0.16	262.45	0.00	0.00
01:35:30	13.50	-0.08	100.03	0.08	262.47	0.00	0.00

Wednesday, October 10, 2012
 NCY E Chance E-78
 300E786610137000
 Blackie / 894.5 m - 904.5 m
 DST # 4



Test Time (24 Hr.)	Flow Time (min)	Surface Dp/Dt (KPa/mn)	Surface Pressure (KPabs)	Recovery Dp/Dt (KPa/mn)	Recovery Pressure (KPabs)	Liquid Rate (m3/D)	Gas Rate (m3/D)
01:35:45	13.75	0.16	100.07	0.01	262.47	0.00	10.02
01:36:00	14.00	0.08	100.09	0.05	262.48	0.00	5.01
01:36:15	14.25	-0.16	100.05	0.15	262.52	0.00	0.00
01:36:30	14.50	0.00	100.05	0.09	262.54	0.16	0.00
01:36:45	14.75	0.08	100.07	-0.47	262.43	0.00	5.34
01:37:00	15.00	0.00	100.07	-0.20	262.38	0.00	0.00
01:37:15	15.25	0.08	100.09	0.05	262.39	0.00	5.01
01:37:30	15.50	-0.08	100.07	0.47	262.51	0.16	0.00
01:37:45	15.75	0.00	100.07	0.45	262.62	0.16	0.00
01:38:00	16.00	0.00	100.07	0.09	262.64	0.00	0.00
01:38:15	16.25	-0.08	100.05	-0.60	262.49	0.00	0.00
01:38:30	16.50	0.16	100.09	-0.13	262.46	0.00	10.02
01:38:45	16.75	-0.08	100.07	-0.11	262.43	0.00	0.00
01:39:00	17.00	0.16	100.11	-0.16	262.39	0.00	10.03
01:39:15	17.25	-0.08	100.09	0.58	262.54	0.16	0.00
01:39:30	17.50	0.08	100.11	0.39	262.63	0.16	4.85
01:39:45	17.75	-0.16	100.07	0.21	262.69	0.16	0.00
01:40:00	18.00	0.16	100.11	0.74	262.87	0.16	9.86
01:40:15	18.25	-0.08	100.09	0.24	262.93	0.00	0.00
01:40:30	18.50	0.00	100.09	-0.18	262.88	0.00	0.00
01:40:45	18.75	-0.08	100.07	-0.68	262.71	0.00	0.00
01:41:00	19.00	0.08	100.09	-0.31	262.64	0.00	5.18
01:41:15	19.25	0.00	100.09	-0.08	262.61	0.00	0.00
01:41:30	19.50	0.00	100.09	0.13	262.65	0.00	0.00
01:41:45	19.75	0.00	100.09	0.67	262.81	0.16	0.00
01:42:00	20.00	0.08	100.11	0.60	262.97	0.33	4.68
01:42:15	20.25	-0.08	100.09	0.11	262.99	0.00	0.00
01:42:30	20.50	-0.08	100.07	-0.11	262.97	0.00	0.00
01:42:45	20.75	0.08	100.09	-0.06	262.95	0.00	5.01
01:43:00	21.00	0.00	100.09	0.07	262.97	0.00	0.00
01:43:15	21.25	0.00	100.09	0.15	263.01	0.00	0.00
01:43:30	21.50	0.08	100.11	-0.18	262.96	0.00	5.01
01:43:45	21.75	0.00	100.11	-0.52	262.83	0.00	0.00
01:44:00	22.00	-0.08	100.09	0.22	262.89	0.16	0.00
01:44:15	22.25	0.00	100.09	-0.07	262.87	0.00	0.00
01:44:30	22.50	0.08	100.11	-0.25	262.81	0.00	5.18
01:44:45	22.75	-0.16	100.07	0.02	262.81	0.16	0.00
01:45:00	23.00	0.08	100.09	0.14	262.85	0.00	5.01
01:45:15	23.25	0.00	100.09	0.21	262.90	0.00	0.00
01:45:30	23.50	0.00	100.09	0.21	262.95	0.16	0.00

Wednesday, October 10, 2012
 NCY E Chance E-78
 300E786610137000
 Blackie / 894.5 m - 904.5 m
 DST # 4



Test Time (24 Hr.)	Flow Time (min)	Surface Dp/Dt (KPa/mn)	Surface Pressure (KPabs)	Recovery Dp/Dt (KPa/mn)	Recovery Pressure (KPabs)	Liquid Rate (m3/D)	Gas Rate (m3/D)
01:45:45	23.75	0.08	100.11	0.24	263.01	0.00	5.01
01:46:00	24.00	-0.08	100.09	0.11	263.04	0.00	0.00
01:46:15	24.25	0.08	100.11	-0.24	262.98	0.00	5.01
01:46:30	24.50	-0.25	100.05	0.15	263.02	0.16	0.00
01:46:45	24.75	-0.45	99.94	0.04	263.03	0.16	0.00
01:47:00	25.00	-0.45	99.83	-0.28	262.96	0.00	0.00
01:47:15	25.25	-0.16	99.79	0.11	262.99	0.16	0.00
01:47:30	25.50	-0.29	99.72	0.11	263.02	0.16	0.00

End Shut-In #2

01:47:45	0.25	-0.37	99.63	-	-	-	0.00
01:48:00	0.50	-0.08	99.61	-	-	-	0.00
01:48:15	0.75	-0.21	99.56	-	-	-	0.00
01:48:30	1.00	-0.25	99.50	-	-	-	0.00
01:48:45	1.25	-0.12	99.47	-	-	-	0.00
01:49:00	1.50	0.00	99.47	-	-	-	0.00
01:49:15	1.75	-0.08	99.45	-	-	-	0.00
01:49:30	2.00	0.08	99.47	-	-	-	5.13
01:49:45	2.25	-0.08	99.45	-	-	-	0.00
01:50:00	2.50	0.00	99.45	-	-	-	0.00
01:50:15	2.75	0.08	99.47	-	-	-	5.13
01:50:30	3.00	0.00	99.47	-	-	-	0.00
01:50:45	3.25	-0.08	99.45	-	-	-	0.00
01:51:00	3.50	-0.08	99.43	-	-	-	0.00
01:51:15	3.75	0.08	99.45	-	-	-	5.13
01:51:30	4.00	0.00	99.45	-	-	-	0.00
01:51:45	4.25	0.00	99.45	-	-	-	0.00
01:52:00	4.50	0.00	99.45	-	-	-	0.00
01:52:15	4.75	0.00	99.45	-	-	-	0.00
01:52:30	5.00	0.00	99.45	-	-	-	0.00
01:52:45	5.25	0.00	99.45	-	-	-	0.00
01:53:00	5.50	0.08	99.47	-	-	-	5.13
01:53:15	5.75	-0.08	99.45	-	-	-	0.00
01:53:30	6.00	-0.08	99.43	-	-	-	0.00
01:53:45	6.25	0.16	99.47	-	-	-	10.27

Wednesday, October 10, 2012
NCY E Chance E-78
300E786610137000
Blackie / 894.5 m - 904.5 m
DST # 4



PRE TEST REPORT

Gas Specific Gravity:	0.65
Formation Depth:	900.00 mKB
Formation Pressure:	9162.00 kPa(g)
Formation Temperature:	30.00 Deg. C
Average Chamber Temperature:	16.50 Deg. C
Initial Chamber Surface Pressure:	90.00 kPa(a)
Initial Gas/N2 Head Pressure:	99.67 kPa(a)
Initial Total Cushion Pressure:	99.67 kPa(a)
Initial Cushion Length:	0.00 m
Liquid Cushion Gradient:	0.00 kPa/m
Down Hole Choke Diameter:	19.05 mm
Down Hole Choke Coefficient:	38.81 m3/D/kPa
Surface Choke Diameter:	12.70 mm
Surface Choke Coefficient:	25.65 m3/D/kPa

Drill Collar Length:	128.92 m
Drill Collar I.D.:	60.00 mm
Drill Collar Capacity:	0.002827 m3/m
Drill Collar Volume:	0.364513 m3

Upper Drill Pipe Length:	756.61 m
Upper Drill Pipe I.D.:	82.30 mm
Upper Drill Pipe Capacity:	0.005320 m3/m
Upper Drill Pipe Volume:	4.024961 m3

Total Chamber Volume:	4.39 m3
Liquid Cushion Volume:	0.00 m3
Net Chamber Volume:	4.39 m3

	<u>Max. Rate</u>	<u>Max. Surface Dp/Dt</u>
Gas:	431096.34 m3/D	6994.65 kPa/min
Gas Saturated H2O:	1632.02 m3/D	81.29 kPa/min
Pure Liquid Influx:	1632.02 m3/D	26.48 kPa/min

	<u>Initial Conversion Factors</u>
Gas:	61.63 m3/D/kPa/min
Gas Saturated H2O:	20.08 m3/D/kPa/min
Pure Liquid Influx:	61.63 m3/D/kPa/min



Northern Cross (Yukon) Ltd. October 10, 2012

NCY E Chance E-78
Blackie

300E786610137000
894.5 to 904.5 mKB

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

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.

Tool to Bottom of
Top Packer 20.23

Total Strings
Above Interval 905.76

Top of Interval
Depth 894.50

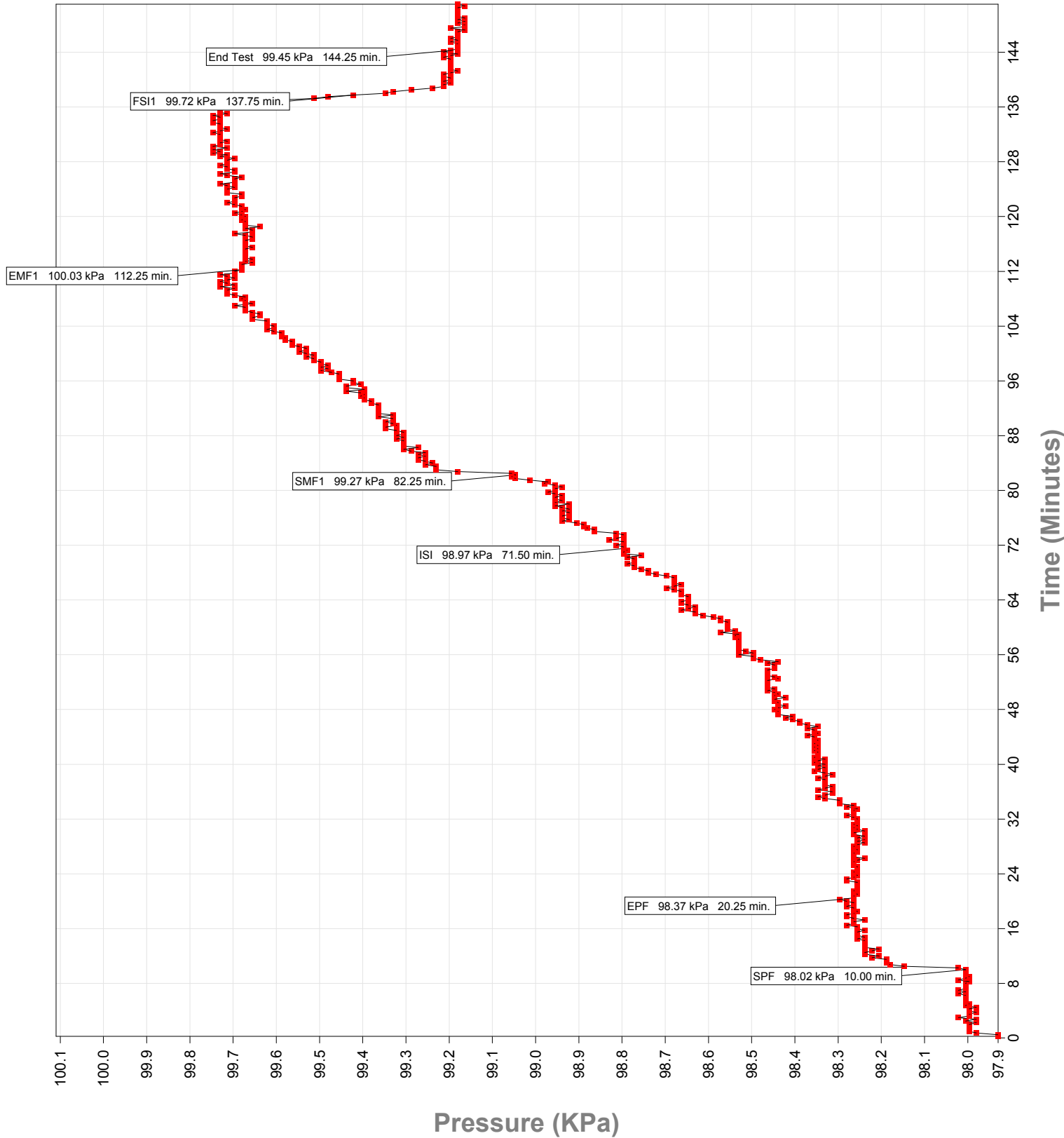
Top Single Above
Table 11.26

Company Representative: _____

Wednesday, October 10, 2012
NCY E Chance E-78
300E786610137000
Blackie / 894.5 m - 904.5 m
DST # 4



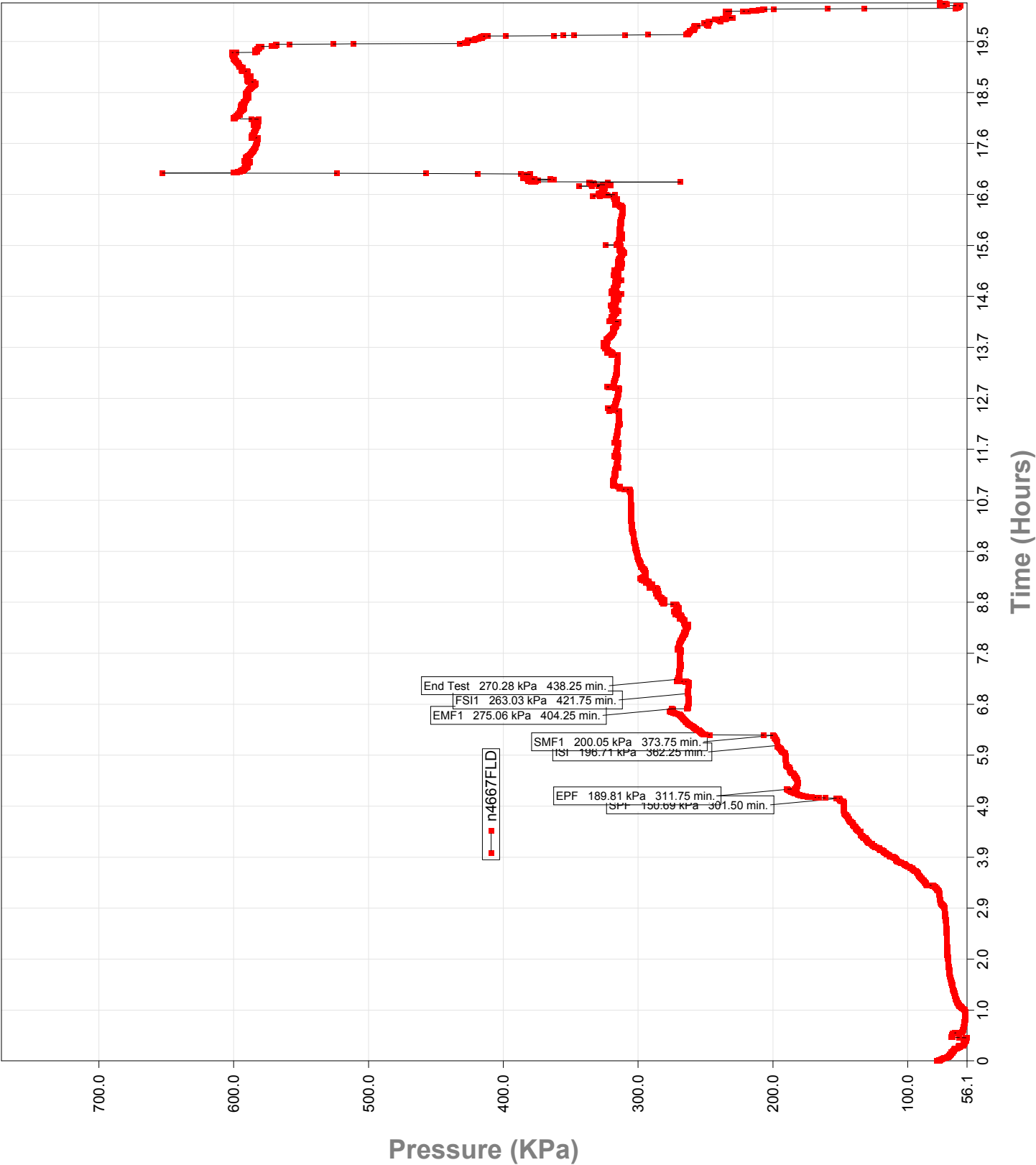
SURFACE PRESSURE CHART



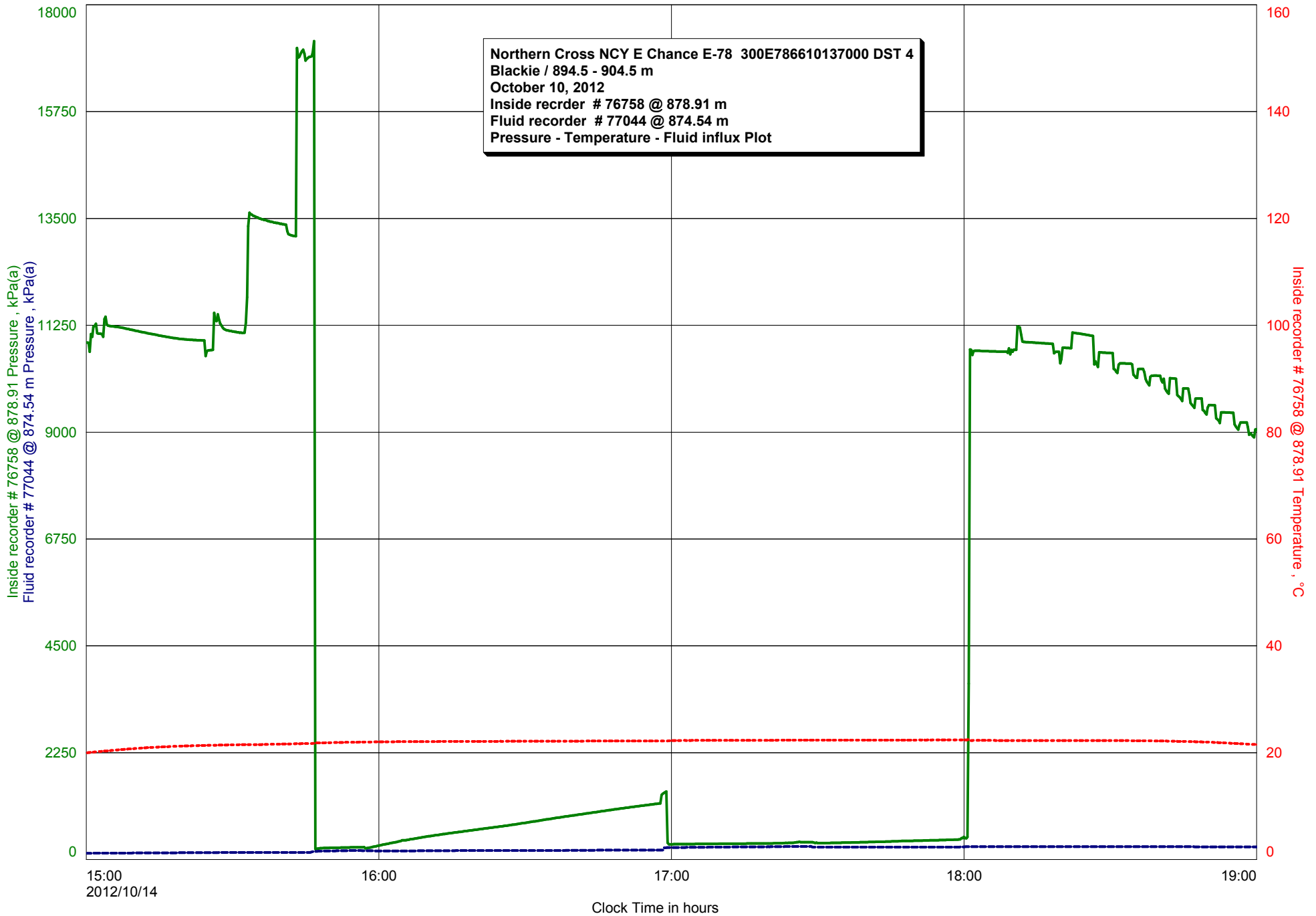
Wednesday, October 10, 2012
NCY E Chance E-78
300E786610137000
Blackie / 894.5 m - 904.5 m
DST # 4



DOWNHOLE PRESSURE CHART



Delta-P Test Corp



Delta-P Test Corp

Delta-P Electro Chart Plot

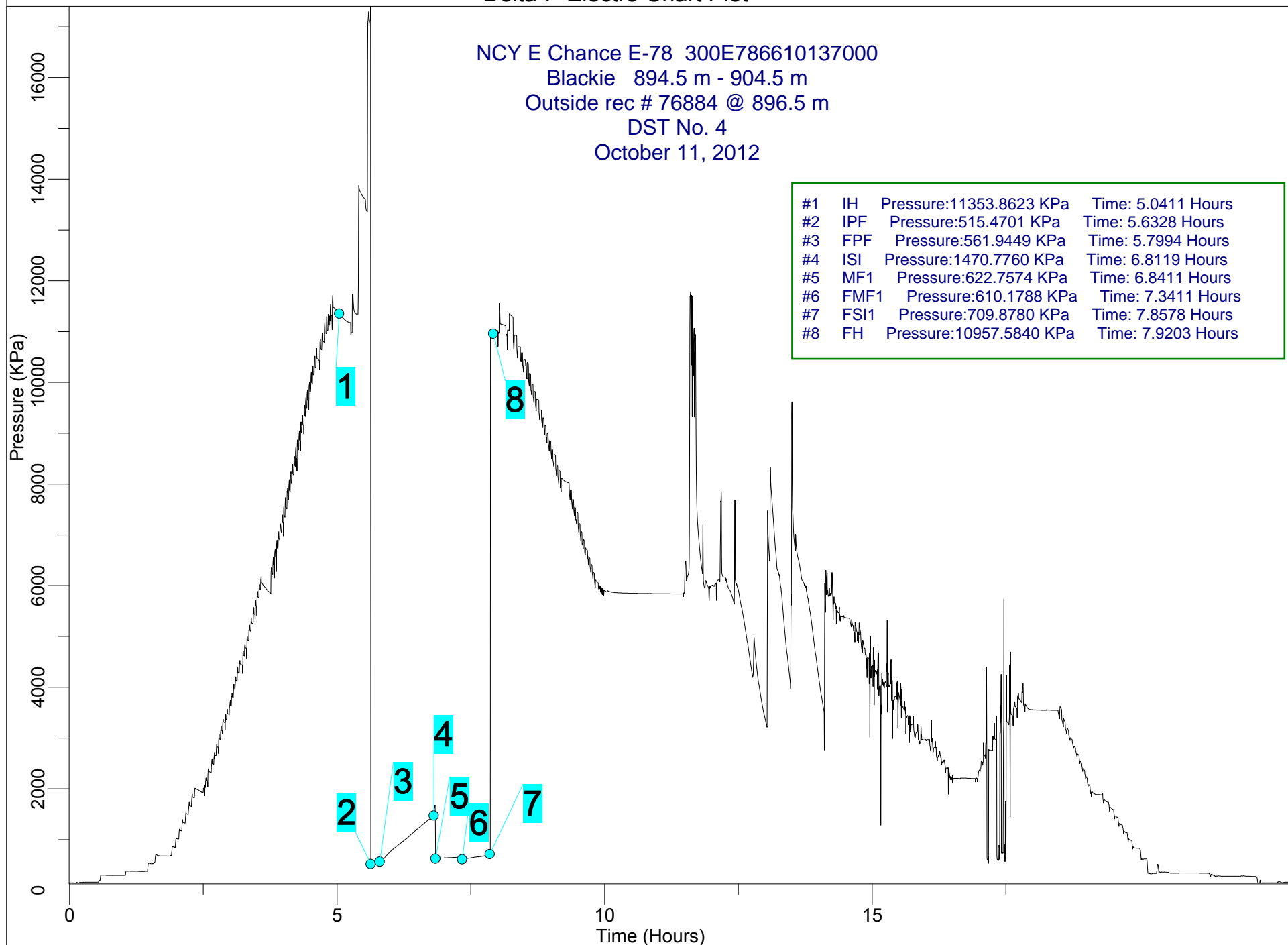
NCY E Chance E-78 300E786610137000

Blackie 894.5 m - 904.5 m

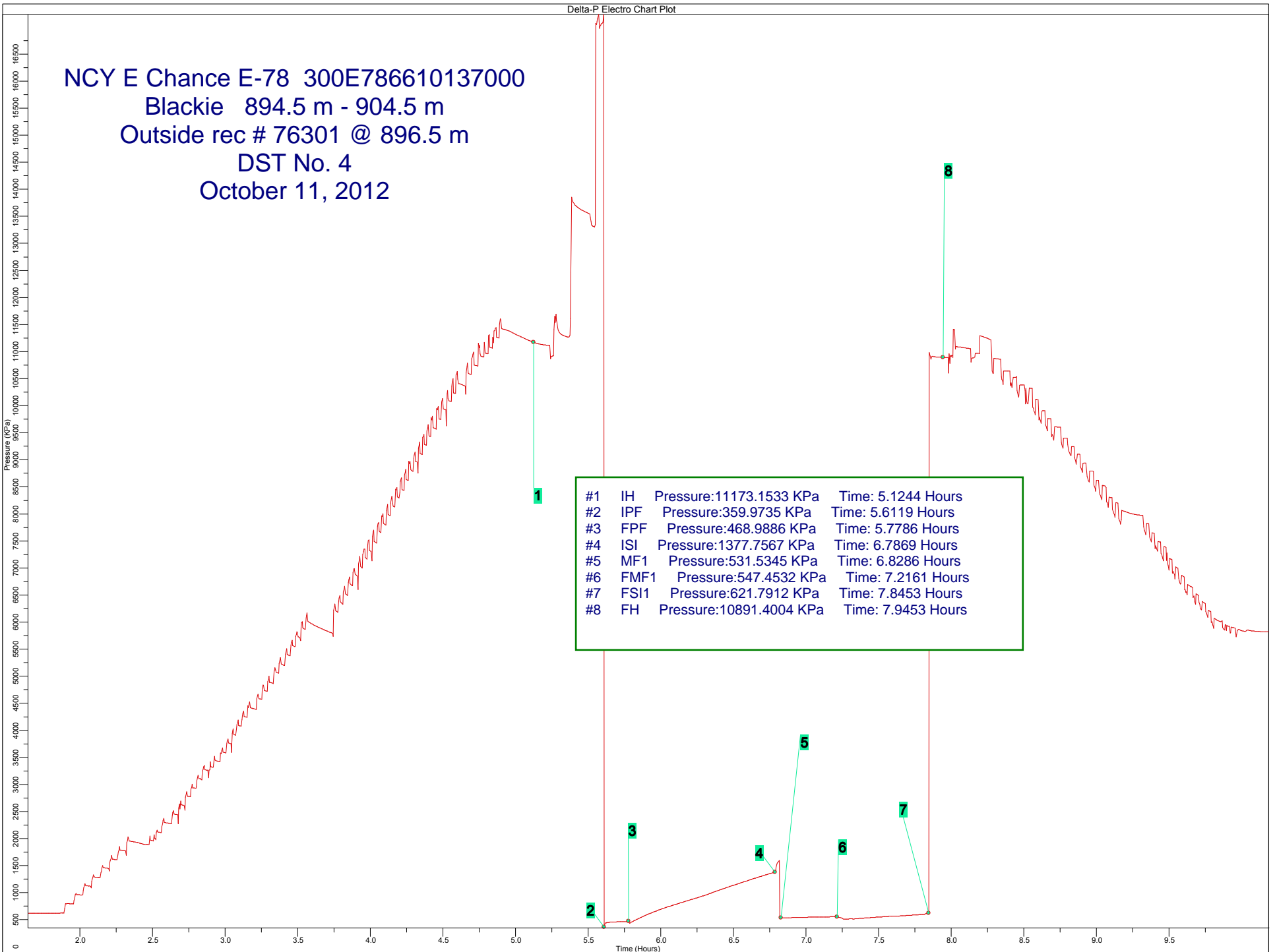
Outside rec # 76884 @ 896.5 m

DST No. 4

October 11, 2012



Delta-P Test Corp



6: 321
7: 379
8: 10626

Linear Pressure Plot

