

Company **Nexus Energy**

Well Name **Longtom-4 P**

Field Name **Longtom**

Field Location **Bass Strait**

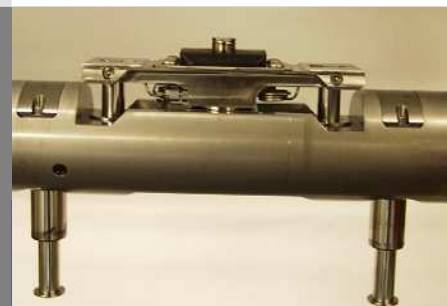
Engineer's Name **D.Shin/A.Sovetov**

Date **29-Jul-2008**

Report Date **29-Jul-2008**

Schlumberger

PressureXpress



Level-0 Quick Look Interpretation Report

**Innovations in Formation
Testing**

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XPT Job Objectives

1. Record formation pressures and fluid mobility over the zone of interest.
2. To derive pressure gradients.

Job Execution Summary

43 pressure tests with standard XPT probe were attempted. Two tests did not achieve the seal with the formation, 26 tests were tight, 1 was supercharged and 14 allowed to measure valid formation pressure. Pretests summary table is shown further in the document.

Quick look interpretation of the acquired pressures allows to identify three gas zones as per Pressure vs. Depth plots shown further. Precision of the gradients is rather low due to low gas density and pretests distribution but it is sufficient enough for positive gas identification.

Formation Gradients

Gradient Error %	Gradient PSI/M	Density g/cc		RI	STD psia
Formation Pressure Lines					
12.2% (0.117 to 0.150 g/cc)	-0.190	0.133		0.9990	0.0500
163.9% (-0.092 to 0.380 g/cc)	-0.205	0.144		0.8586	0.1300
85.9% (0.026 to 0.340 g/cc)	-0.260	0.183		0.6660	0.4000

Mud Column Gradients


Gradient Error %	Gradient PSI/M	Density G/C3		RI	STD psia
Mud Before Lines					
0.6% (1.399 to 1.416 G/C3)	-2.003	1.408		0.9977	5.3600
Mud After Lines					
0.6% (1.401 to 1.417 G/C3)	-2.004	1.409		0.9974	5.8200

Test Point Table

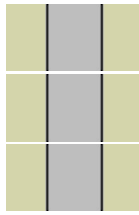
File No.	Test No.	Run	Test MD	Test TVD	Test Subsea	Mud Before	Formation Pressure	Mud After	Drawdown Mobility	Temp.	Test Type	Gauge Name	Pretest Volume	Pretest Flowrate
			M	M	M	psia	psia	psia	md/cp	DEGC			cc	cc/s
20	2	1	2603.00	2352.91	-2311.91	4746.19		4745.39		96.7	Tight Test	QCP	0.06	0.04
21	4	1	2614.53	2359.79	-2318.79	4759.38		4759.13		96.65	Tight Test	QCP	0.8	0.1
22	6	1	2616.68	2361.07	-2320.07	4761.93	3693.11	4761.42	100.28	96.92	Volumetric Limited draw-down	QCP	9.52	0.77
23	8	1	2618.97	2362.43	-2321.43	4764.95	3695.8	4764.35	9.96	97.09	Volumetric Limited draw-down	QCP	9.82	0.67
24	10	1	2624.01	2365.41	-2324.41	4771.37		4770.6		97.29	Tight Test	QCP	0.39	0.09
25	12	1	2624.98	2365.99	-2324.99	4772		4772.14		97.53	Tight Test	QCP	0.09	0.04
27	16	1	2625.49	2366.29	-2325.29	4771.1		4770.87		97.92	Tight Test	QCP	0.05	0.02
28	18	1	2625.77	2366.46	-2325.46	4773.38		4772.81		98.11	Tight Test	QCP	1.51	0.18
26	14	1	2628.99	2368.37	-2327.37	4777.38		4776.73		97.74	Tight Test	QCP	0.13	0.06
29	20	1	2687.01	2403.21	-2362.21	4846.74		4846.18		98.29	Tight Test	QCP	0.04	0.02
30	22	1	2691.96	2406.24	-2365.24	4853.6		4852.84		99.02	Tight Test	QCP	0.05	0.03
31	24	1	2697.02	2409.36	-2368.36	4859.59		4858.8		99.82	Tight Test	QCP	0.04	0.04
32	26	1	2704.97	2414.27	-2373.27	4869.02		4868.06		100.39	Tight Test	QCP	0.13	0.06
33	28	1	2713.96	2419.86	-2378.86	4879.46	3999.22	4878.51	7.91	100.82	Volumetric Limited draw-down	QCP	9.78	0.49
34	30	1	2723.47	2425.82	-2384.82	4891.36	4000.29	4890.17	15.32	101.31	Volumetric Limited draw-down	QCP	9.78	0.49
35	32	1	2723.47	2425.82	-2384.82	4889.82	4000.16	4888.7	15.97	101.67	Volumetric Limited draw-down	QCP	9.73	0.48
36	36	1	2731.95	2431.2	-2390.2	4901.58	4001.8	4898.45	7.35	102.48	Volumetric Limited draw-down	QCP	4.75	0.29
37	38	1	2732.52	2431.55	-2390.55	4900.47	4001.44	4898.41	4.1	102.98	Volumetric Limited draw-down	QCP	9.89	0.3
38	40	1	2739.96	2436.23	-2395.23	4910.05	4017.84	4908.1	0.33	103.1	Supercharged	QCP	0.97	0.27
40	45	1	2740.98	2436.89	-2395.89	4907.99		4907.69		103.81	Tight Test	QCP	0.59	0.09
39	43	1	2745.00	2439.45	-2398.45	4916.47		4915.59		103.65	Tight Test	QCP	0.88	0.1
44	48	1	2747.54	2441.07	-2400.07	4916.16		4915.57		105.7	Tight Test	QCP	0.45	0.09
41	46	1	2748.00	2441.37	-2400.37	4919.59		4919		104.03	No Seal	QCP	1.64	0.42
45	51	1	2753.00	2444.56	-2403.56	4923.02		4921.58		105.56	Tight Test	QCP	9.82	0.1
46	53	1	2754.79	2445.71	-2404.71	4925.24		4924.26		105.37	Tight Test	QCP	1.8	0.1
47	55	1	2757.95	2447.72	-2406.72	4929.22		4928.31		105.39	Tight Test	QCP	0.19	0.08
49	57	1	2822.49	2490.55	-2449.55	5022.58	4347.48	5020.7	6.16	105.65	Volumetric Limited draw-down	QCP	9.6	0.48
69	96	1	2823.00	2490.9	-2449.9	5008.5	4346.5	5007.56	7.64	109.34	Volumetric Limited draw-down	QCP	4.96	0.1
70	97	1	2825.21	2492.41	-2451.41	5015.01		5013.21		108.49	Tight Test	QCP	4.66	0.1
50	60	1	2825.45	2492.57	-2451.57	5026.37	4347.41	5023.39	253.77	106.4	Volumetric Limited draw-down	QCP	4.54	0.52
68	94	1	2827.50	2493.97	-2452.97	5016.1	4347.27	5015.34	11.59	111	Volumetric Limited draw-down	QCP	4.98	0.1
51	62	1	2830.47	2496	-2455	5033.85		5032.85		106.68	No Seal	QCP	2.39	0.35
52	64	1	2832.98	2497.72	-2456.72	5036.94		5035.82		106.86	Tight Test	QCP	1.84	0.19
53	67	1	2843.96	2505.21	-2464.21	5053.11		5052.15		107.17	Tight Test	QCP	1.05	0.1
67	92	1	2844.50	2505.59	-2464.59	5042.49		5041.84		112.06	Tight Test	QCP	2.6	0.1

Test Point Table

File No.	Test No.	Run	Test MD	Test TVD	Test Subsea	Mud Before	Formation Pressure	Mud After	Drawdown Mobility	Temp.	Test Type	Gauge Name	Pretest Volume	Pretest Flowrate
			M	M	M	psia	psia	psia	md/cp	DEGC			cc	cc/s
66	90	1	2957.45	2583.9	-2542.9	5226.27		5223.98		112.27	Tight Test	QCP	0.46	0.09
56	70	1	2957.99	2584.28	-2543.28	5229.78		5228.3		110.88	Tight Test	QCP	5.01	0.1
63	88	1	2959.99	2585.7	-2544.7	5230.46		5228.91		113.65	Tight Test	QCP	0.6	0.09
59	75	1	2962.98	2587.81	-2546.81	5239.19	4603.25	5237.1	2.23	112.59	Volumetric Limited draw-down	QCP	0.99	0.1
60	80	1	2965.02	2589.25	-2548.25	5241.51	4603.68	5239.72	6.94	113.23	Volumetric Limited draw-down	QCP	0.46	0.09
61	84	1	2966.00	2589.94	-2548.94	5240.03	4603.65	5238.79	7.88	113.5	Volumetric Limited draw-down	QCP	0.98	0.1
57	72	1	2967.00	2590.65	-2549.65	5246.45		5245.32		111.65	Tight Test	QCP	1.13	0.09
62	86	1	2967.51	2591.01	-2550.01	5244.91		5242.85		113.65	Tight Test	QCP	1.01	0.1

COMPANY:		Nexus Energy							
WELL:		Longtom-4 P							
FIELD:		Longtom							
Rig:		West Triton			State:		VIC		
West Triton Longtom Bass Strait Longtom-4 P Nexus Energy Rig: Field: Location: Well: Company:					Formation Pressures Suite 1, Run 1 DSI-XPT-GR				
		Location Bass Strait Northing: 5781704.499 m Easting: 616897.309 m			Elev: K.B. 41 M G.L. 56 M D.F. 41 M				
		Permanent Datum: Log Measured From: Drilling Measured From:			AHD DF DF		Elev: 0 M 0M above Perm. Datum		
		State Australia		Max Deviation 53.70 deg			Latitude 38 6' 17.707" S		Longitude 148 19' 59.944" E
Logging Date		7/29/2008							
Run Number		1							
Depth Driller		2987 M							
Schlumberger Depth		2987.6 M							
Bottom Log Interval		2825.2 M							
Top Log Interval		2603 M							
Casing Drilling Size		@ Depth	10.8 IN		2590 M				
Casing Schlumberger		2590 M							
Bit Size		9.5 IN							
Type Fluid in Hole		Accolade							
Mud	Density	Viscosity	12.017 G/C3		110 cp				
	Fluid Loss	PH	5 ml						
	Source of Sample		N/A						
RM	@ Measured Temperature	0		@ -2.09E-06 DEGC		@			
RMF	@ Measured Temperature	0		@ -2.09E-06 DEGC		@			
RMC	@ Measured Temperature	0		@ -2.09E-06 DEGC		@			
Source RMF		Source RMC		N/A		N/A			
RM	@ MRT	RMF	@ MRT	0	113.6 DE	0	113.6 DE		
Maximum Recorded Temperatures		113.6 DEGC		113.6 DE		113.6 DE			
Circulation Stopped		Time		7/28/2008		21:41			
Logger On Bottom		Time		7/29/2008		07:05			
Unit Number		Location		41		AUSL			
Recorded By		D.Shin/A.Sovetov							
Witnessed By		C.Menhennitt/H.Little							

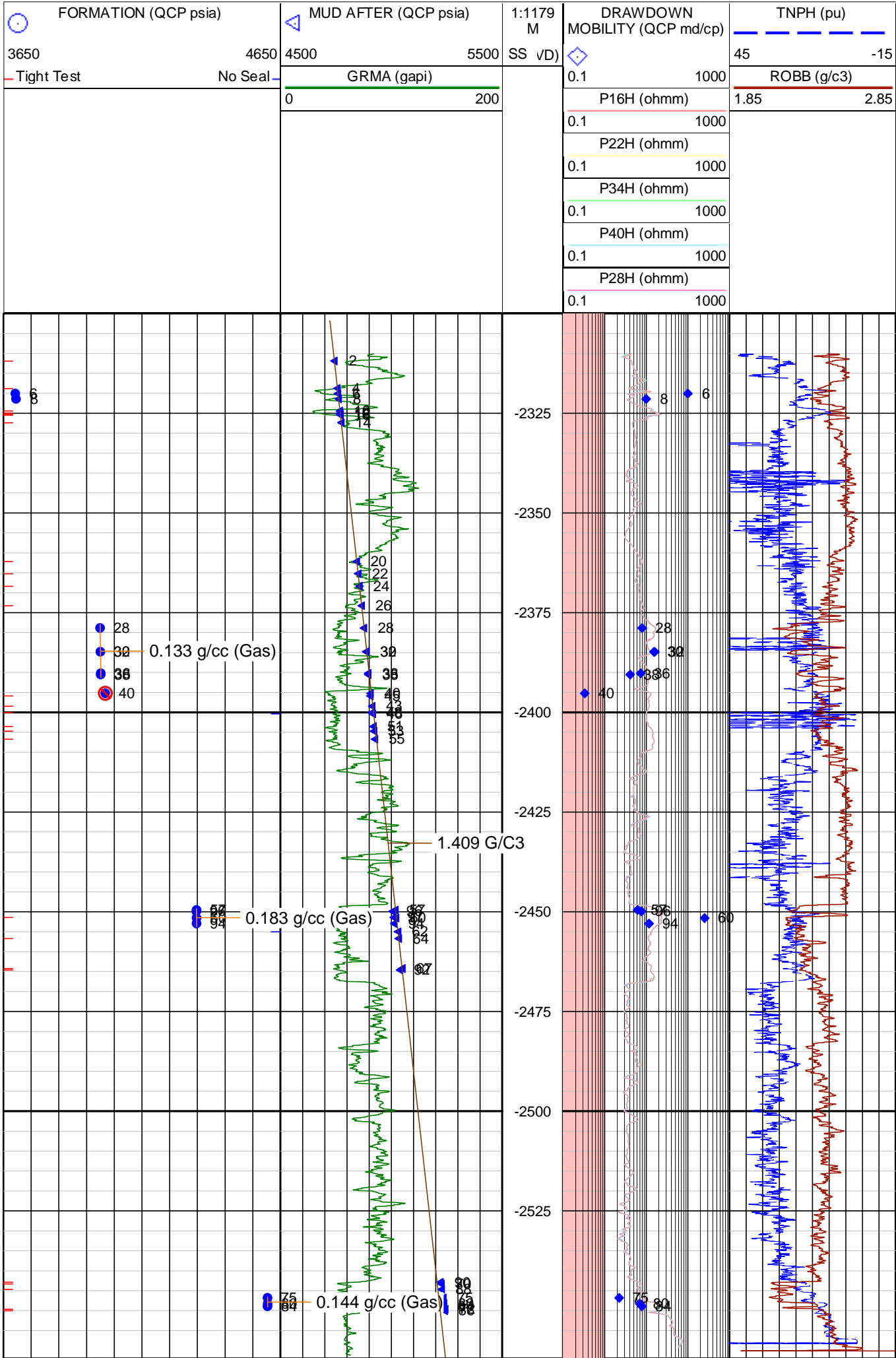
Tool String Diagram

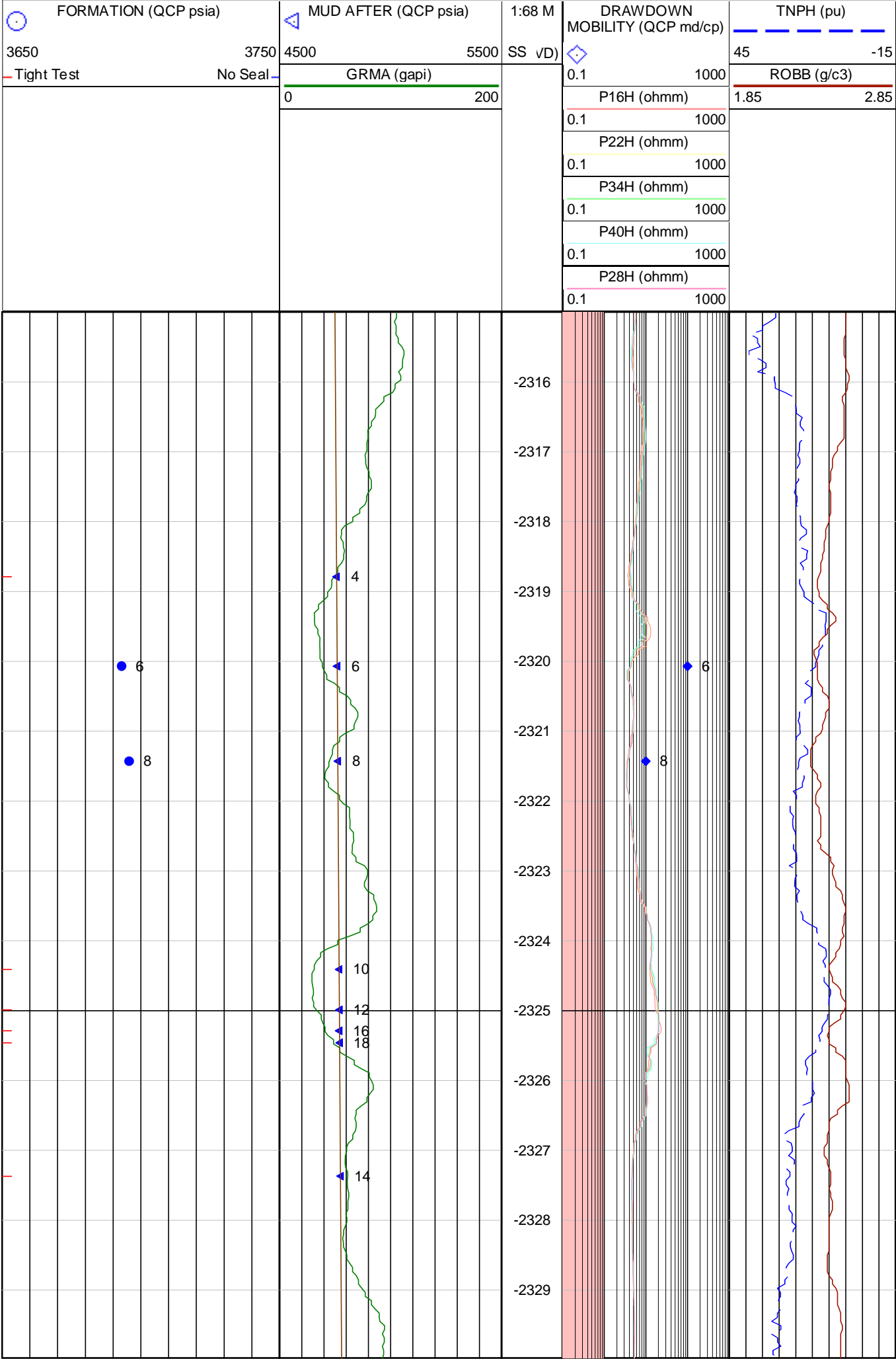


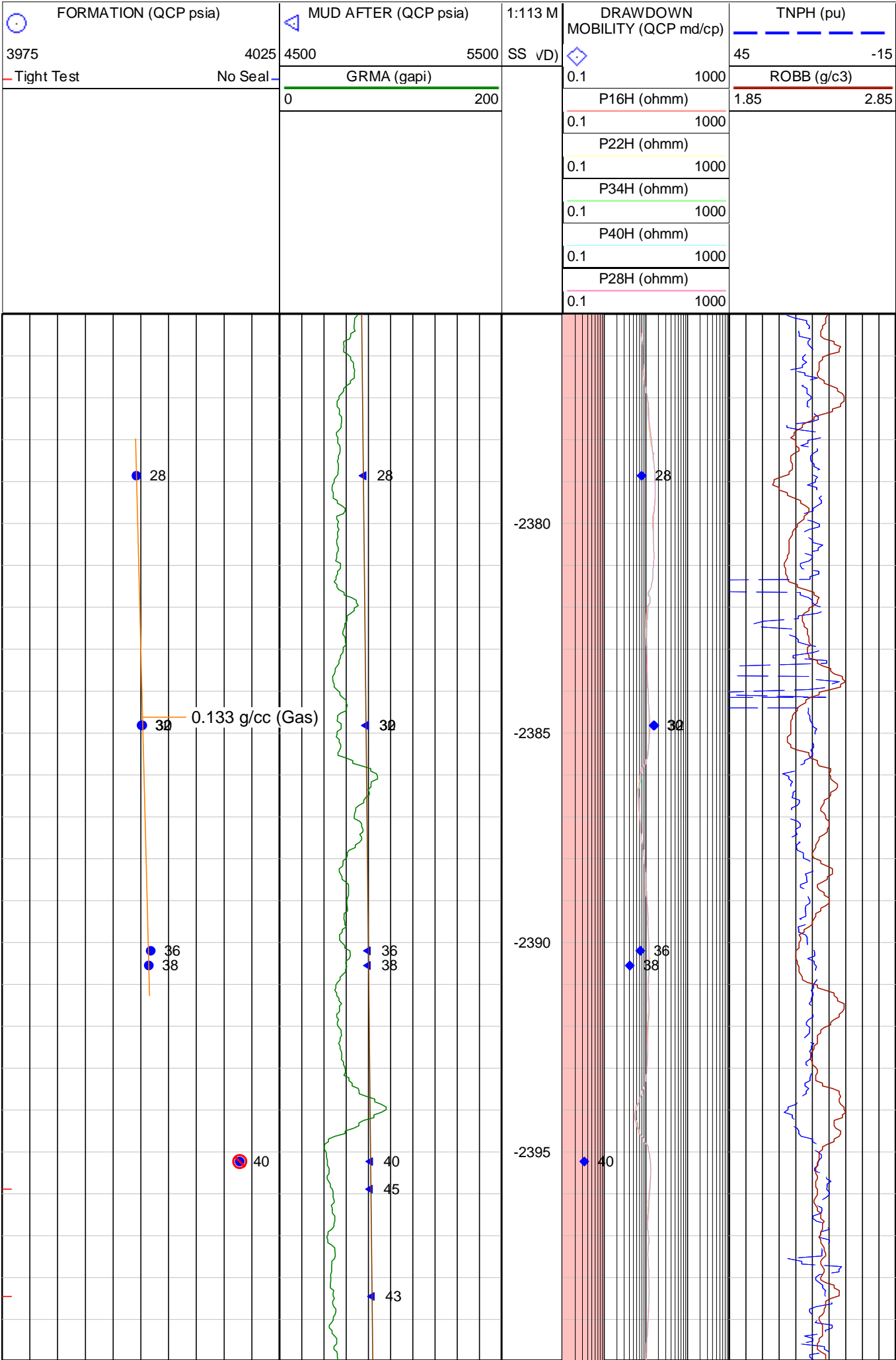
Enhanced DTS Cartridge (EDTC-B)

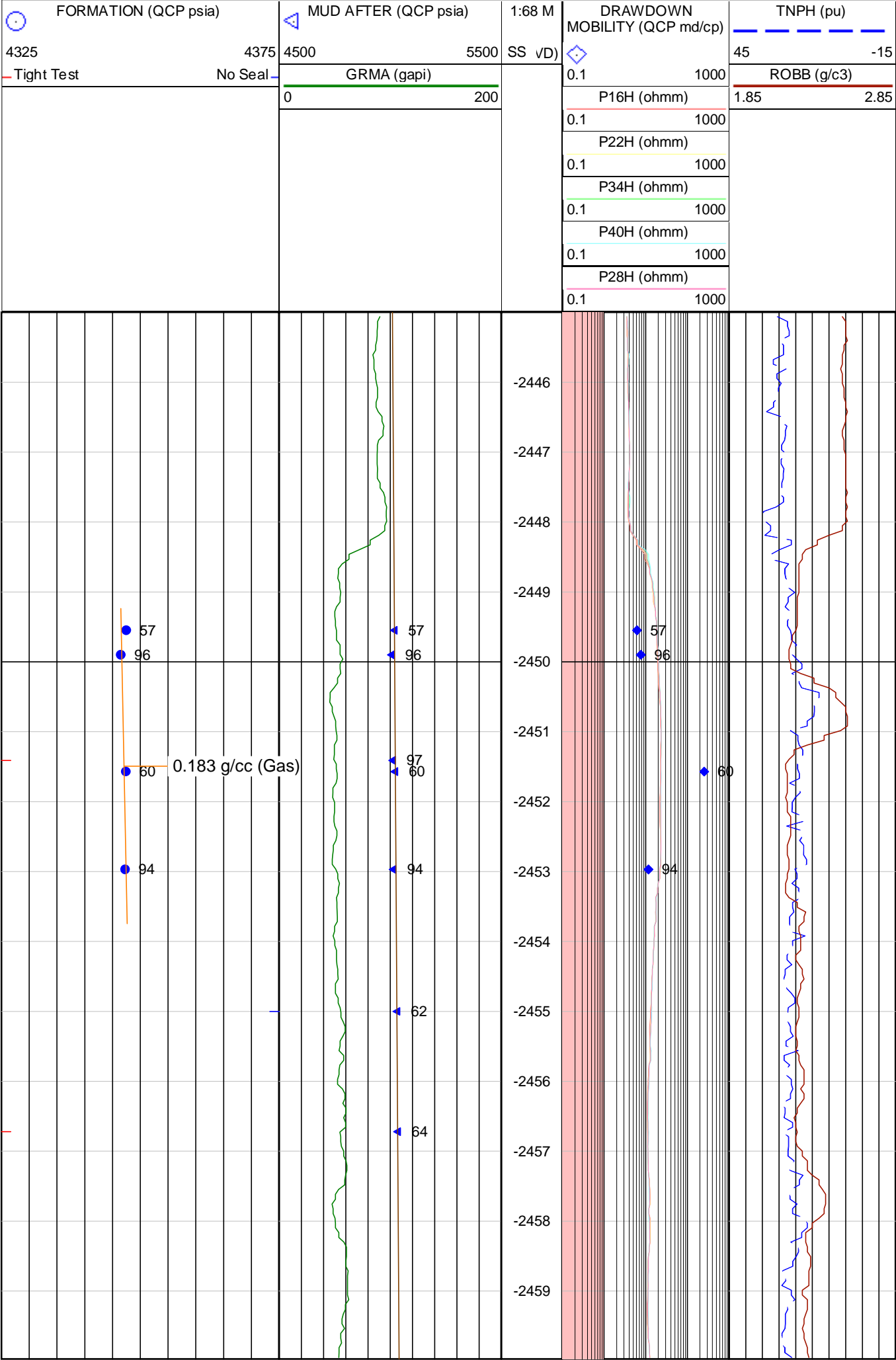
Xpress Pressure Tool - BA (XPT-BA)

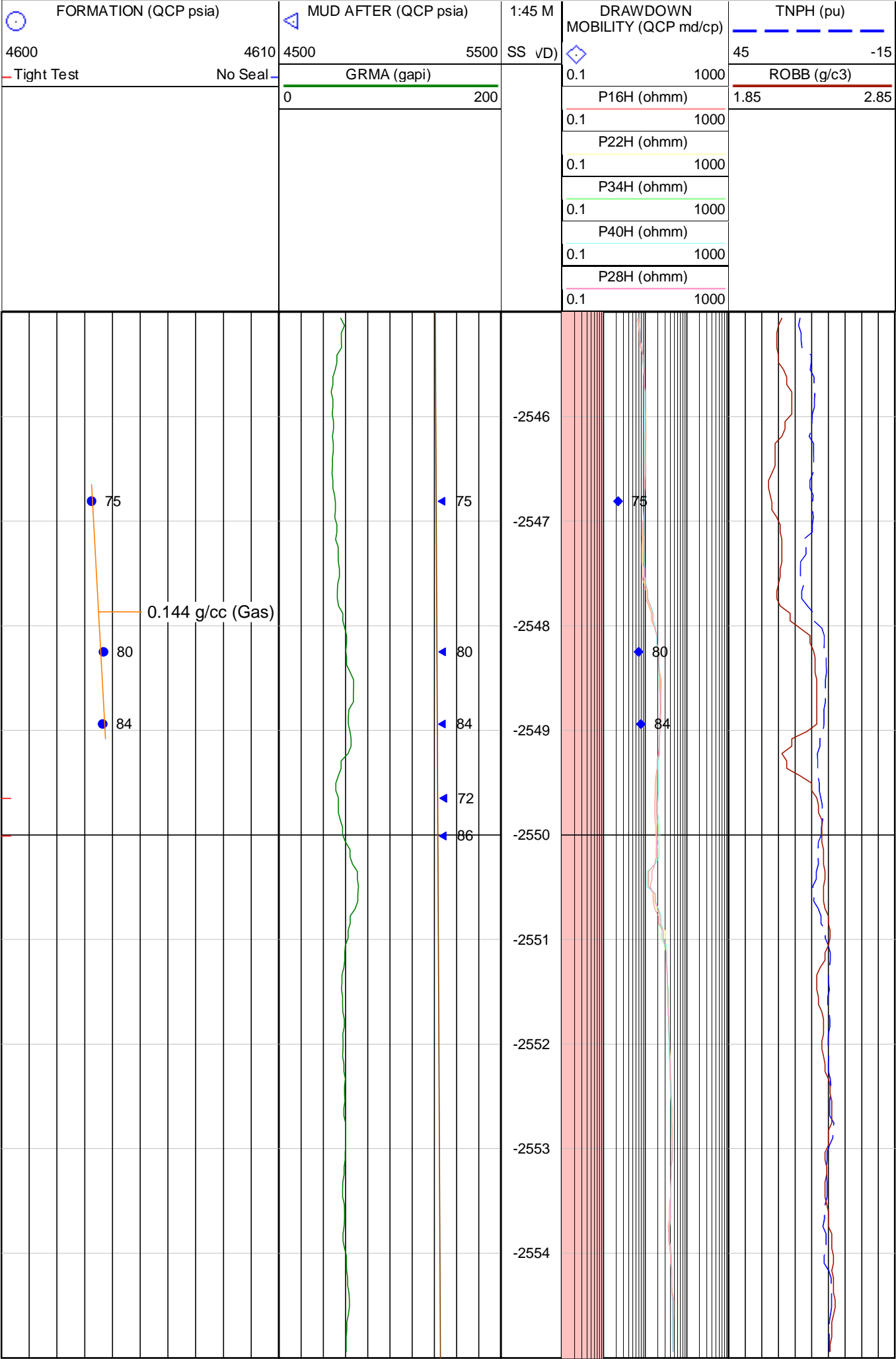
Dipole Shear Imager - B (DSST-B)











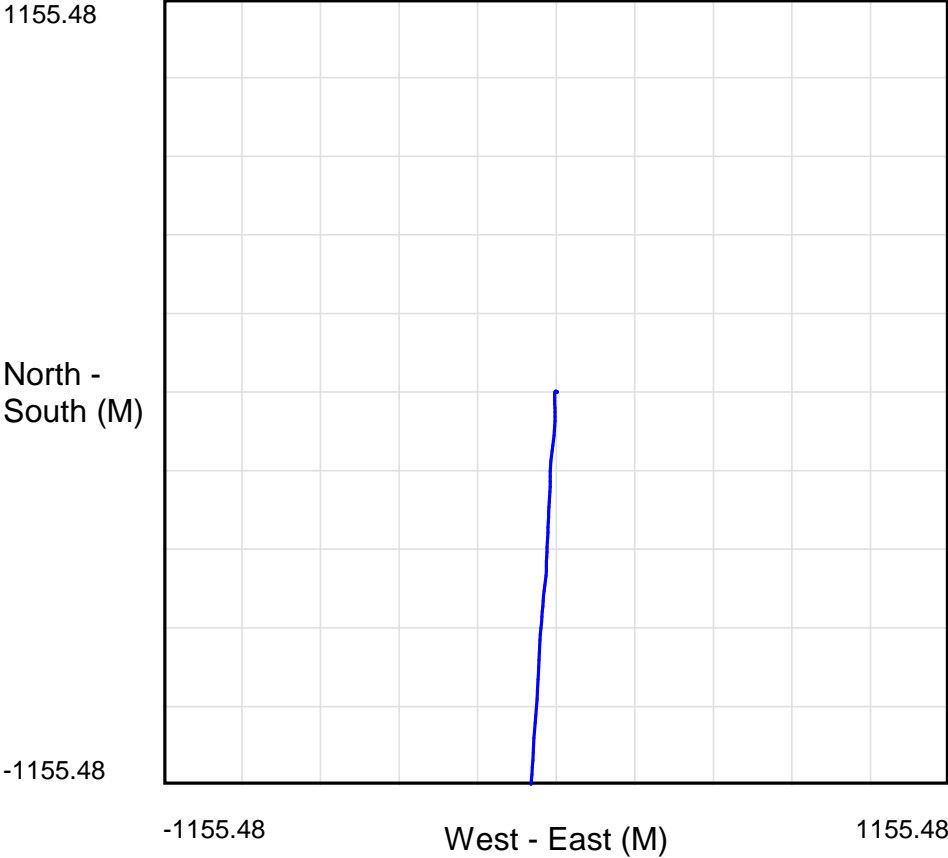
Longtom-4 P

Source :Supplied Survey Table

MD	TVD	Devi	Azimuth	North	East	Departur e	Departur e Azimuth	Dogleg Severity
M	M	Deg	Deg	M	M	M	Deg	Deg/100f
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
204.75	204.75	0.52	335.69	0.71	-0.02	0.71	358.39	0.09
531.83	531.82	0.85	328.15	0.56	-0.88	1.04	302.47	0.23
783.28	783.25	0.52	304.12	2.54	-2.49	3.56	315.57	0.18
931.42	930.50	10.19	179.91	-11.47	-4.96	12.50	203.39	2.04
1078.64	1069.33	25.70	178.42	-58.90	-3.42	59.00	183.32	1.52
1225.95	1199.28	30.16	185.46	-128.08	-6.81	128.26	183.04	0.72
1374.68	1327.44	30.42	184.92	-203.03	-15.54	203.62	184.38	0.81
1523.35	1455.50	30.08	180.58	-278.48	-18.16	279.07	183.73	0.04
1671.81	1583.64	30.16	182.75	-353.33	-21.96	354.01	183.56	0.33
1820.04	1711.94	29.12	183.26	-427.49	-25.54	428.25	183.42	0.66
1968.51	1842.19	27.81	181.63	-498.67	-28.54	499.49	183.28	1.49
2116.78	1972.72	29.55	188.02	-568.67	-33.79	569.67	183.40	0.03
2265.38	2099.72	32.11	184.62	-645.46	-40.82	646.75	183.62	0.79
2413.59	2221.81	37.70	183.21	-729.03	-47.58	730.58	183.73	0.94
2578.22	2337.95	52.52	183.03	-844.88	-53.58	846.58	183.63	2.92
2740.27	2436.43	50.60	184.48	-973.27	-61.88	975.24	183.64	0.86
2916.37	2555.10	46.19	183.31	-1103.03	-70.11	1105.26	183.64	0.38
2987.00	2604.76	45.14	184.59	-1153.12	-73.76	1155.48	183.66	0.00

19 rows printed of 88 available rows

Map View



Cross Section View

