Dunk 1

Hole

(mMDRT)

68.61 1106.38

2330.00

Hole Size

26"

17 1/2" 12 1/4" Shoe

(mMDRT)

64.91

1101.04

2326.84

Casing Size

20"

13 3/8"

9 5/8"

Hanger

(mMDRT)

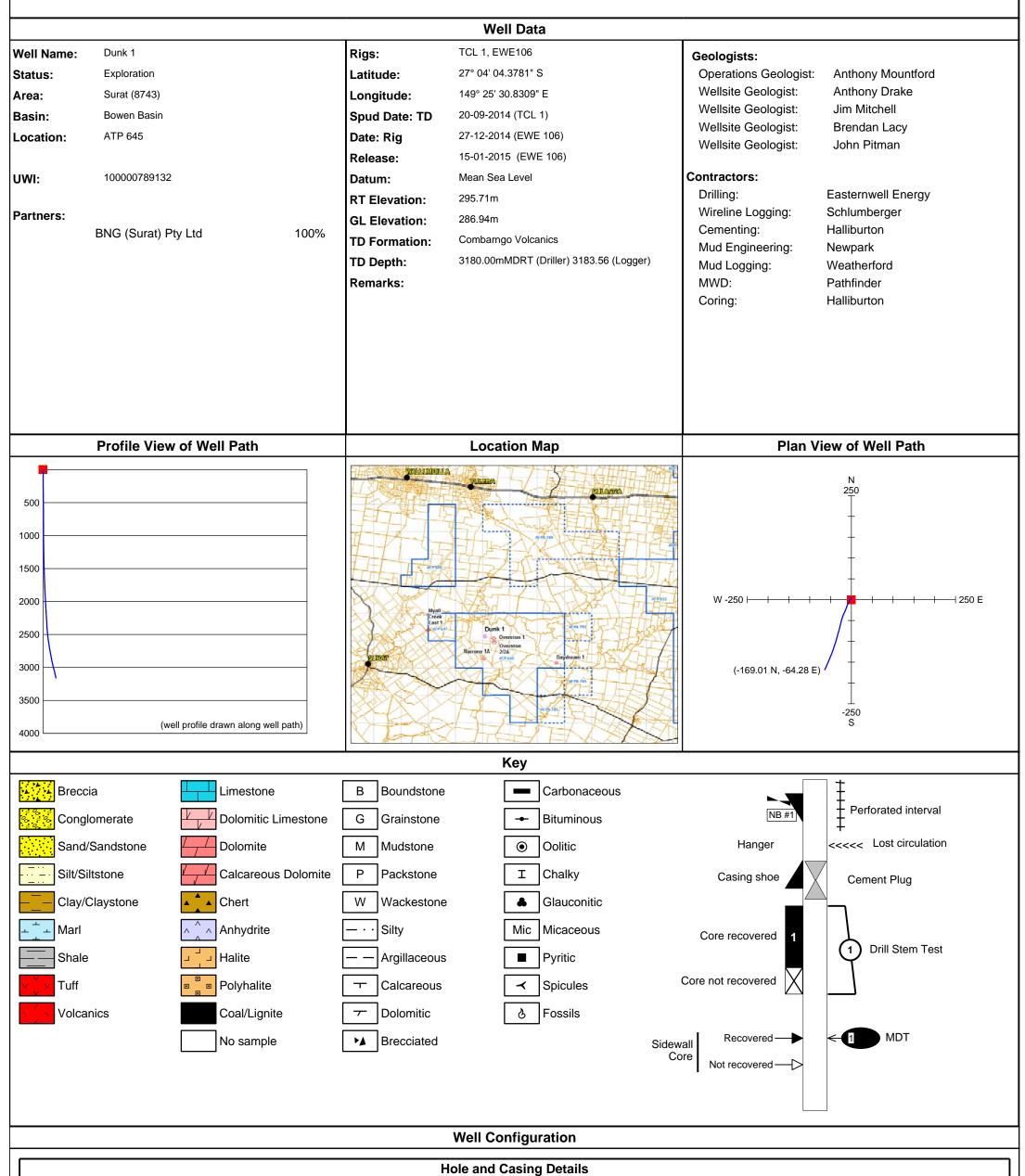
Comments

Reached section TD @ 09:30 06-12-2014

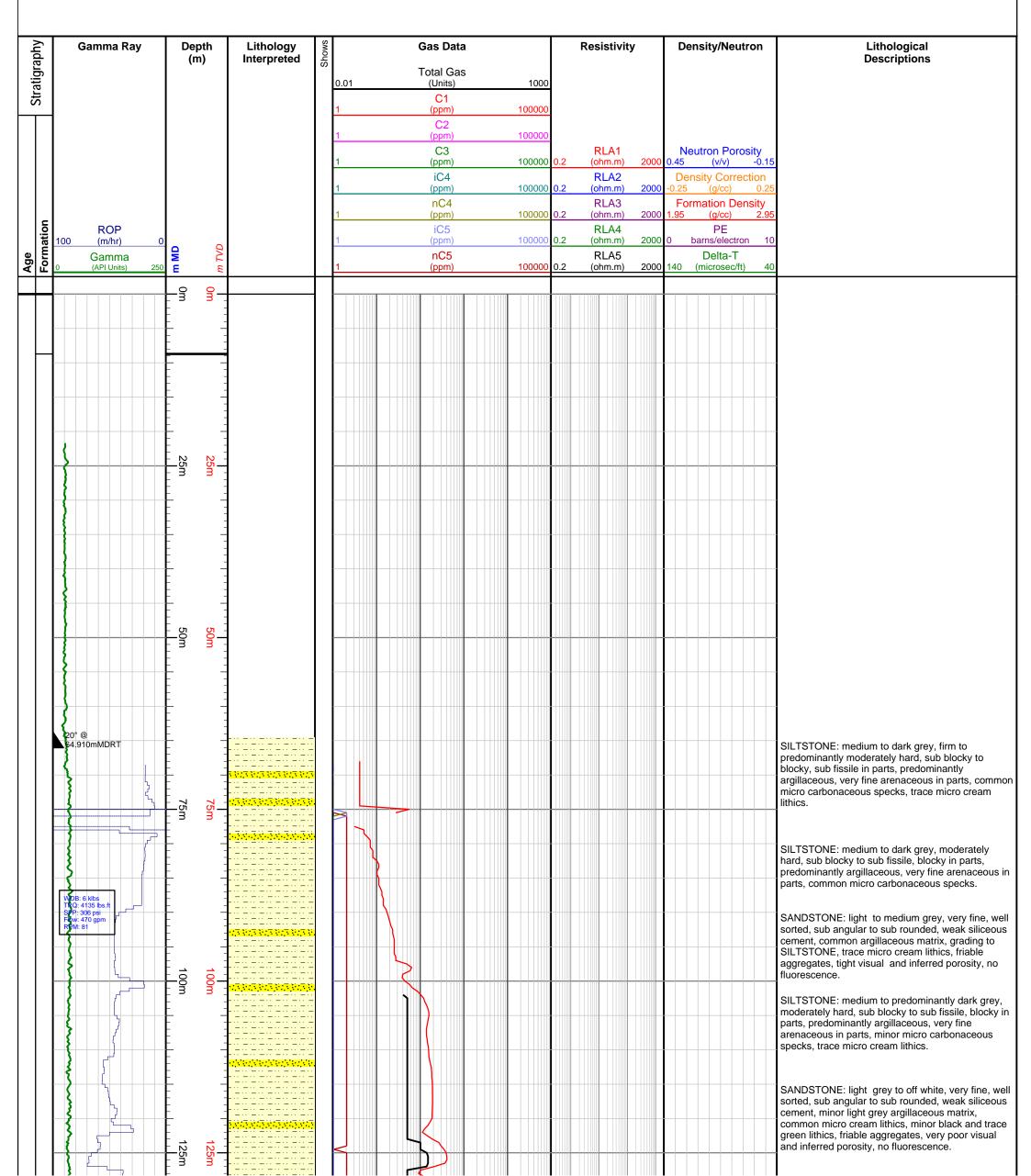


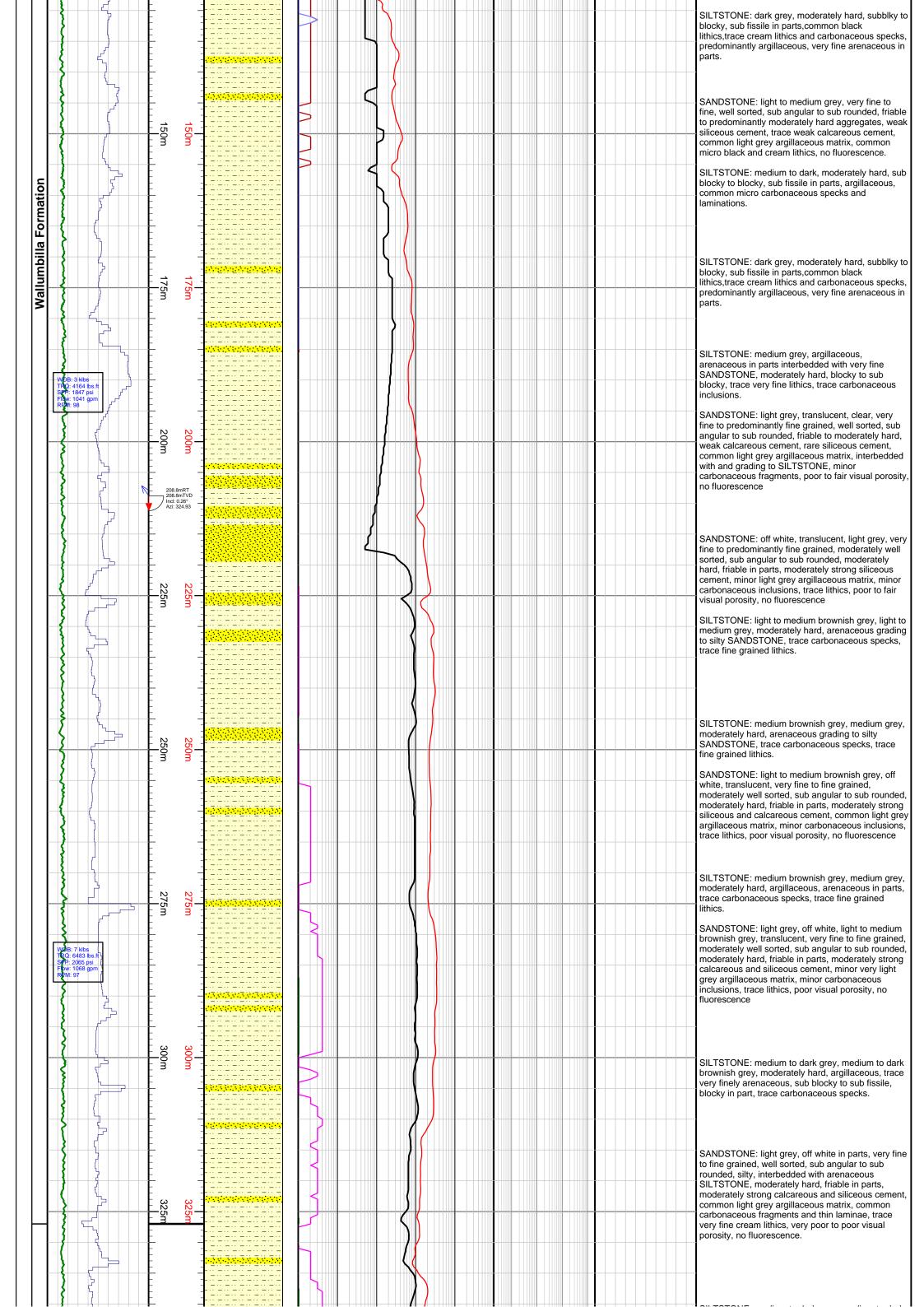
Scale 1:500

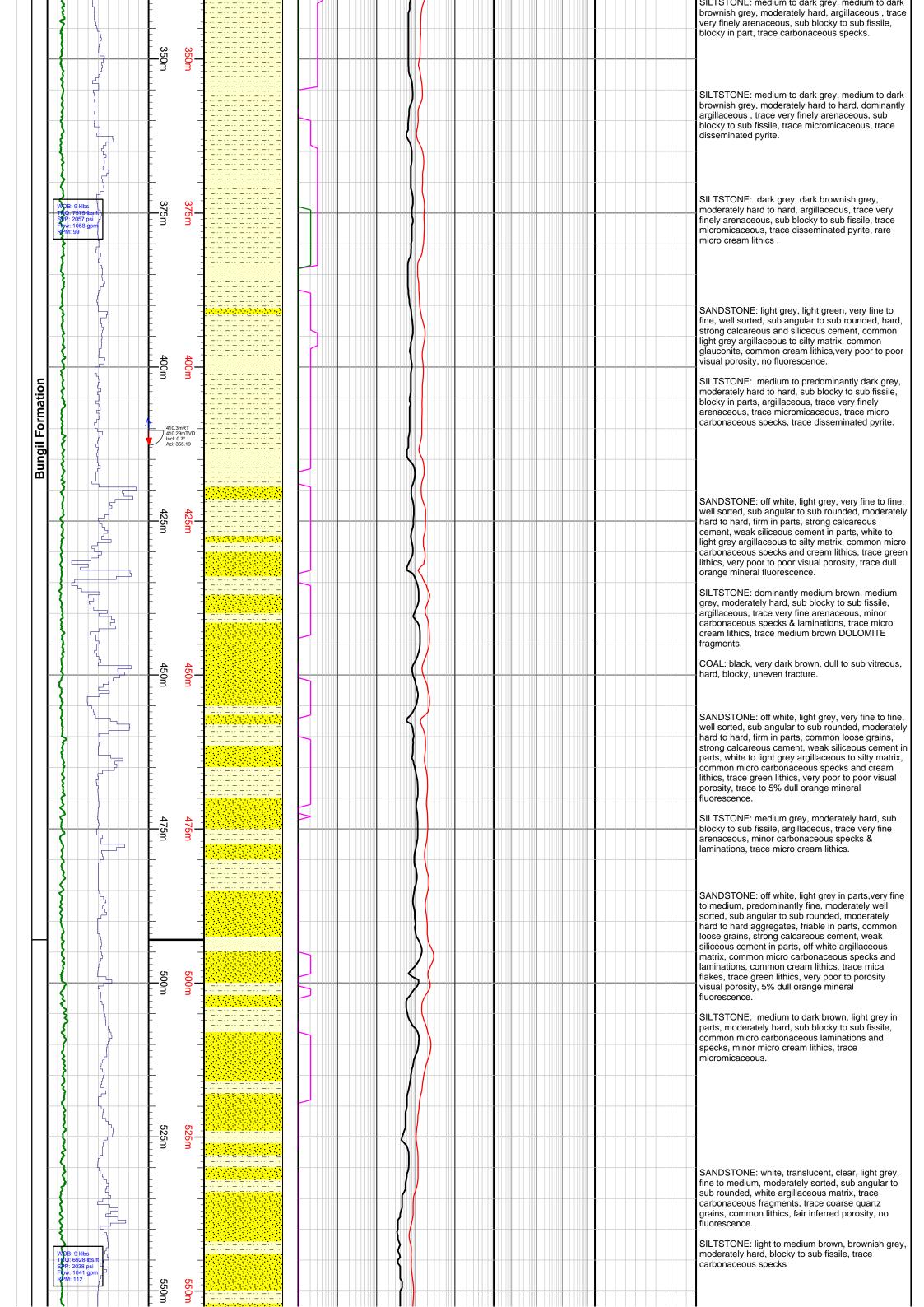
Composite Well Log

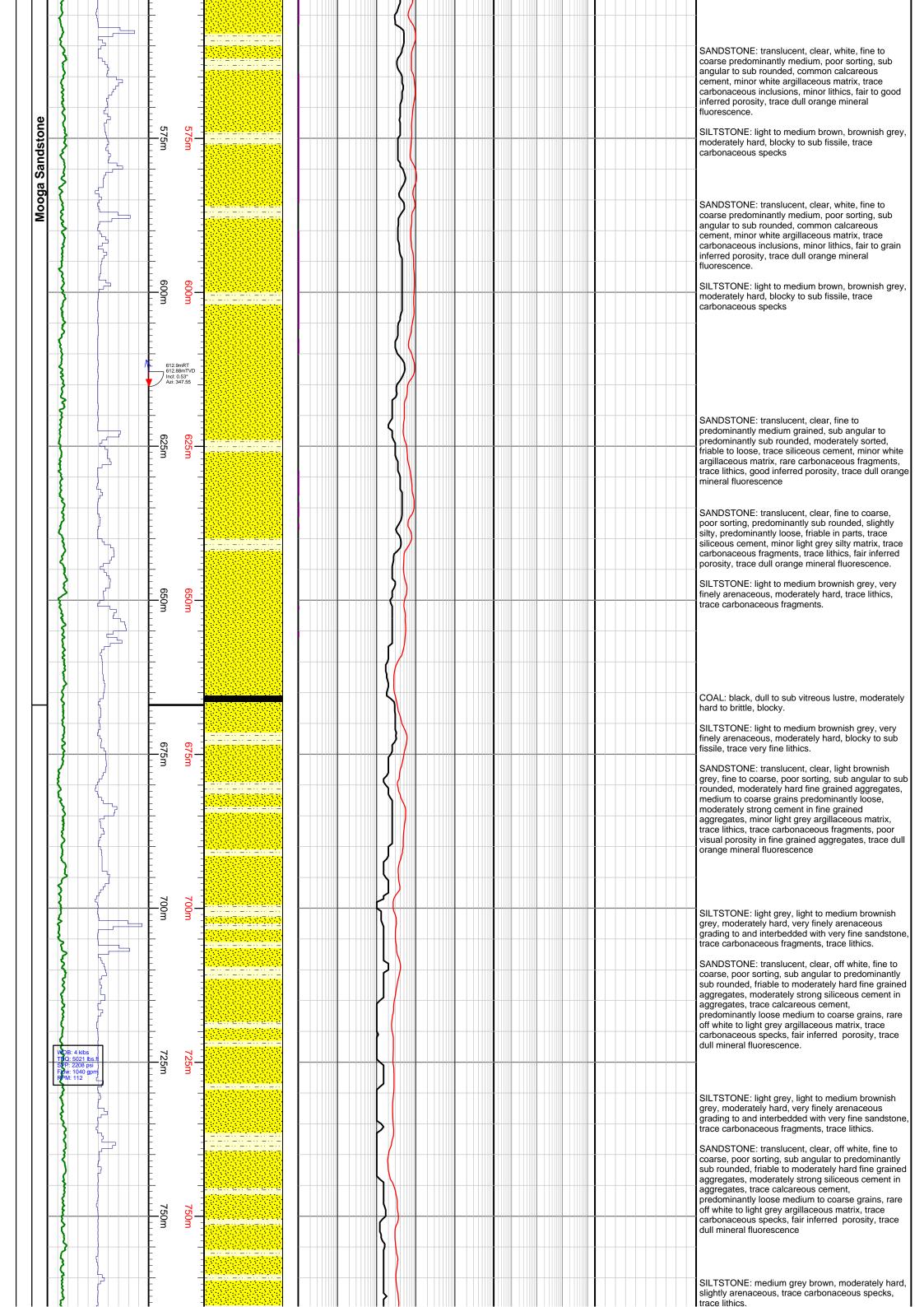


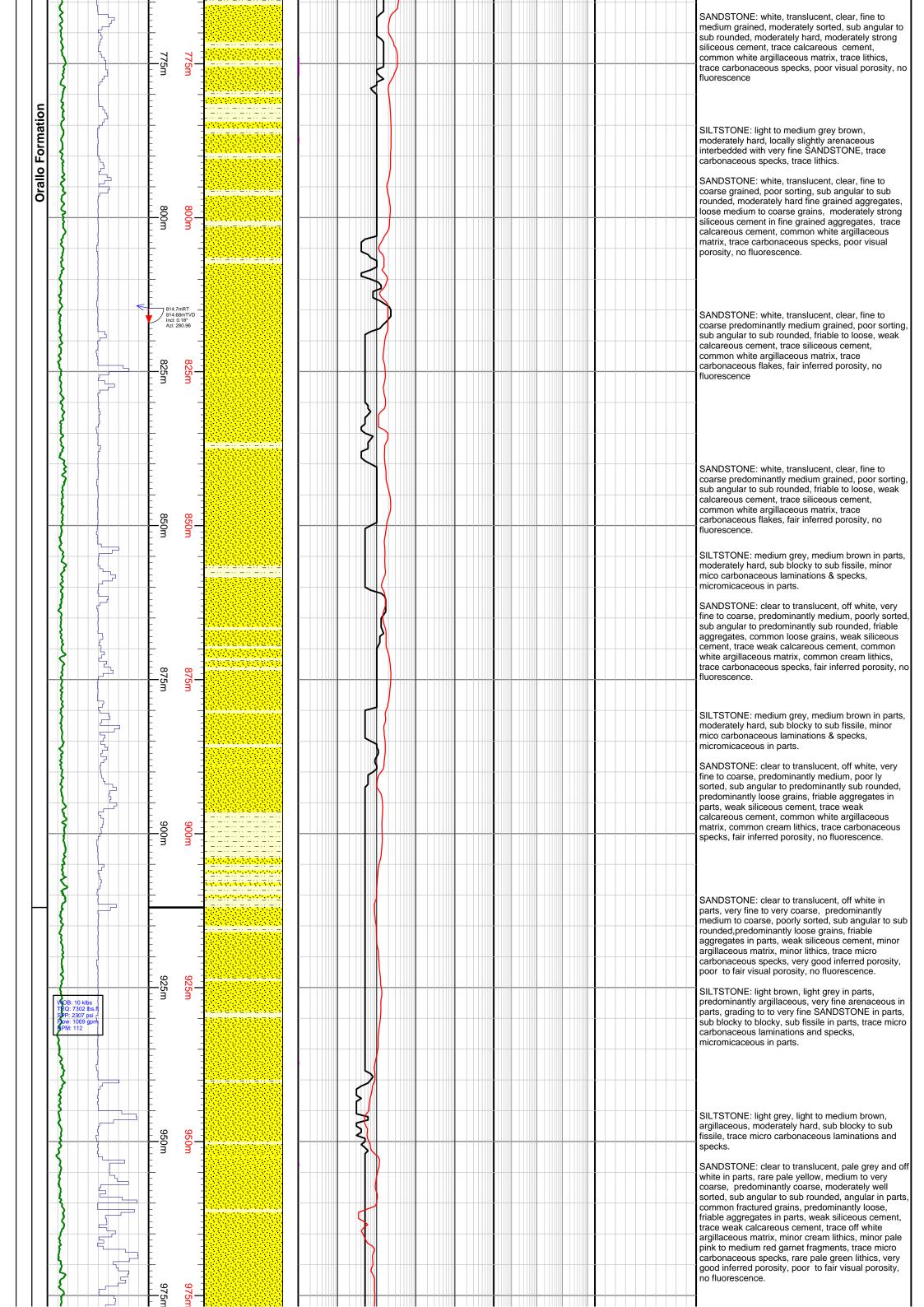
			Wireline Logging Su	mmary			
Suite/Run No	Suite		Suite Date(s) Inter		Max Temp (°C)	Comments	
1.1	12 1/4"	PEX-HRLA-SSCAN-PPC-GPIT-SP	07/12/14 to 08/12/14	1099.00 - 2332.70	77.8	12 1/4" open hole	
1.1	12 1/4"	GR	07/12/14 to 08/12/14	20.00 - 2332.70	77.8	GR to surface inside 13 3/8" casing	
2.1	6 3/4"	FMI-SSCAN-PPC	28/12/2014	2328.06 - 3183.56	115.5		
2.2	6 3/4"	PEX-HRLA-APS- HNGS-SP-GR	28/12/2014	2328.06 - 3183.56	106.0		
2.3	6 3/4"	CMR-ECS	28/12/2014 to 29/12/2014	2328.06 - 3183.56	110.0		
2.4	6 3/4"	MDT	29/12/2014	2812.79 - 2933.31	110.0	Station log	
2.5	6 3/4"	MSCT	31/12/2014	3005.00 - 3133.75	104.5	Station log	
2.6	6 3/4"	MSCT	31/12/2014 to 01/01/2015	2384.85 - 3008.81	104.5	Station log	
2.7	6 3/4"	VSI4 (4 shuttle seismic)	01/01/2015	8.70 - 3117.97	110.0	Station log	
2.8	6 3/4"	USIT-CBL-CCL	02/01/2015	800.00 - 2328.00	102.0		

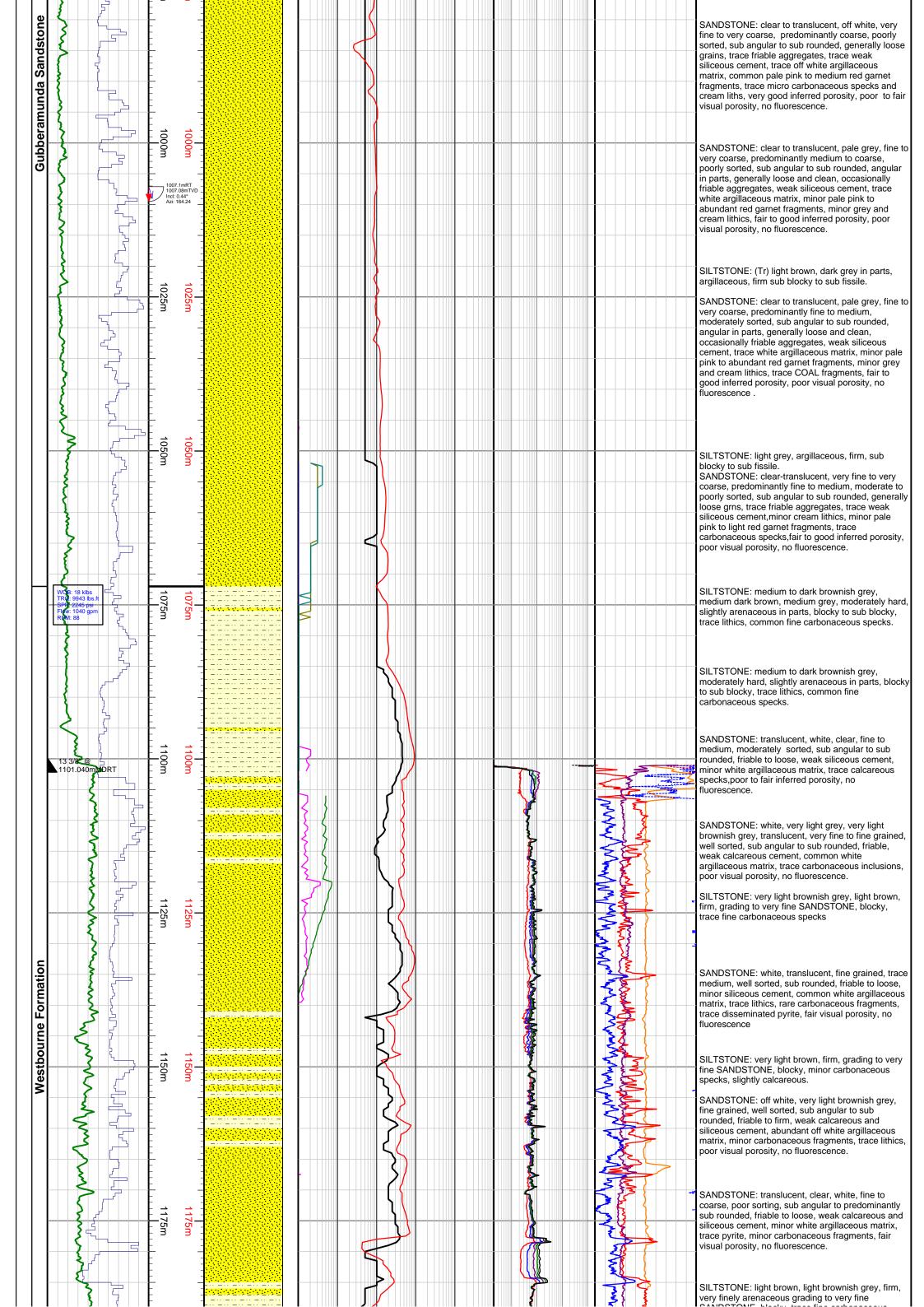


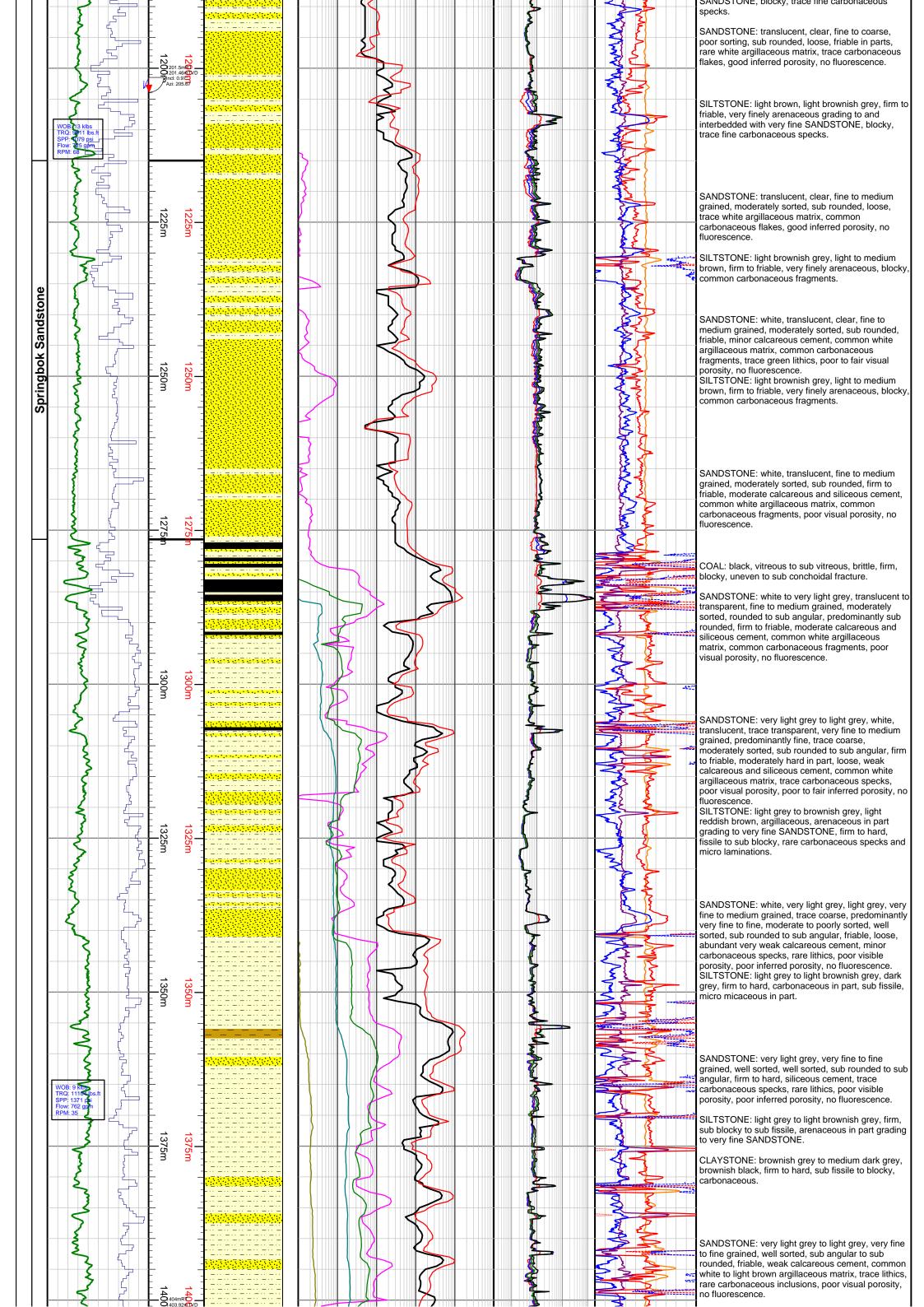


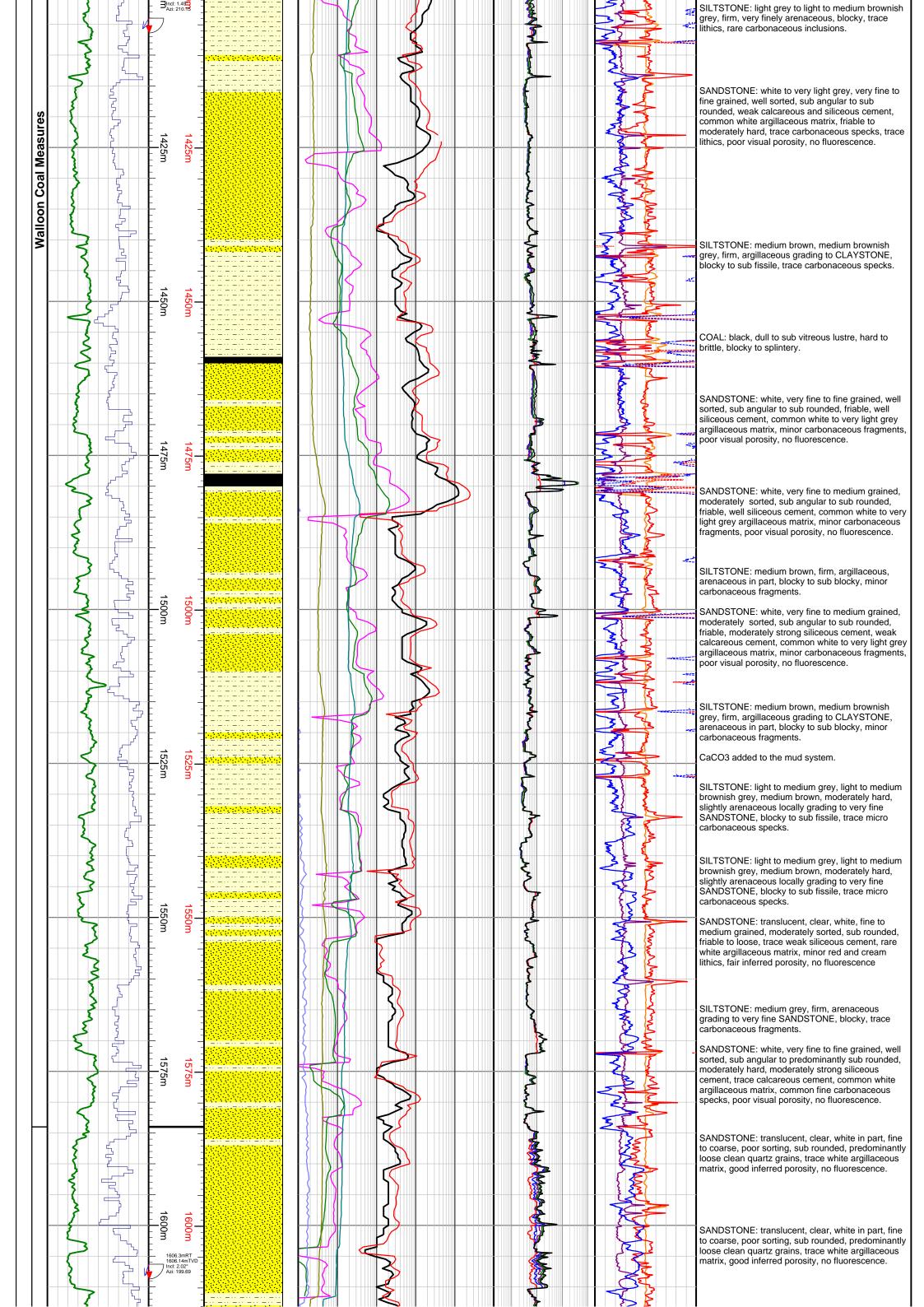


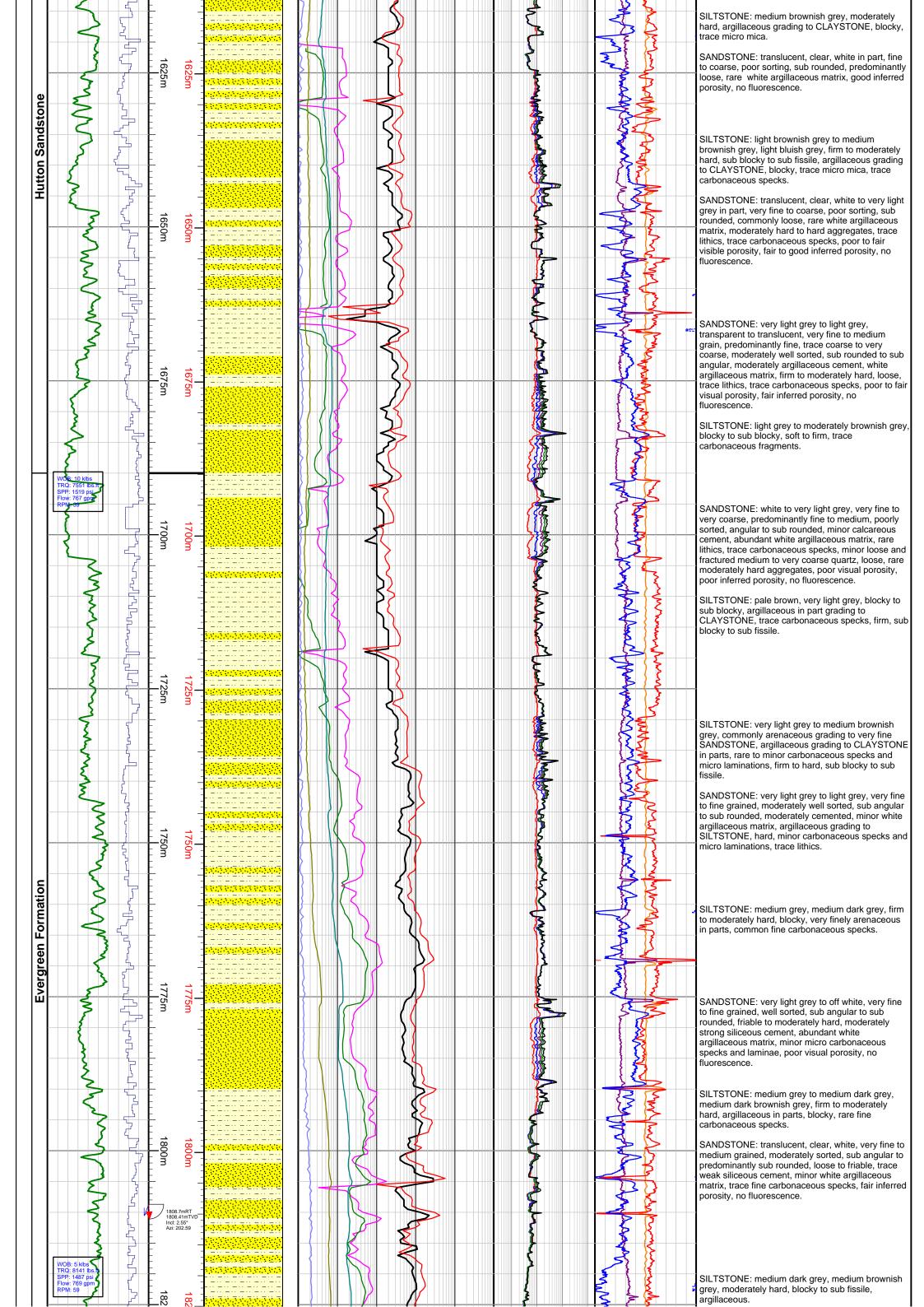


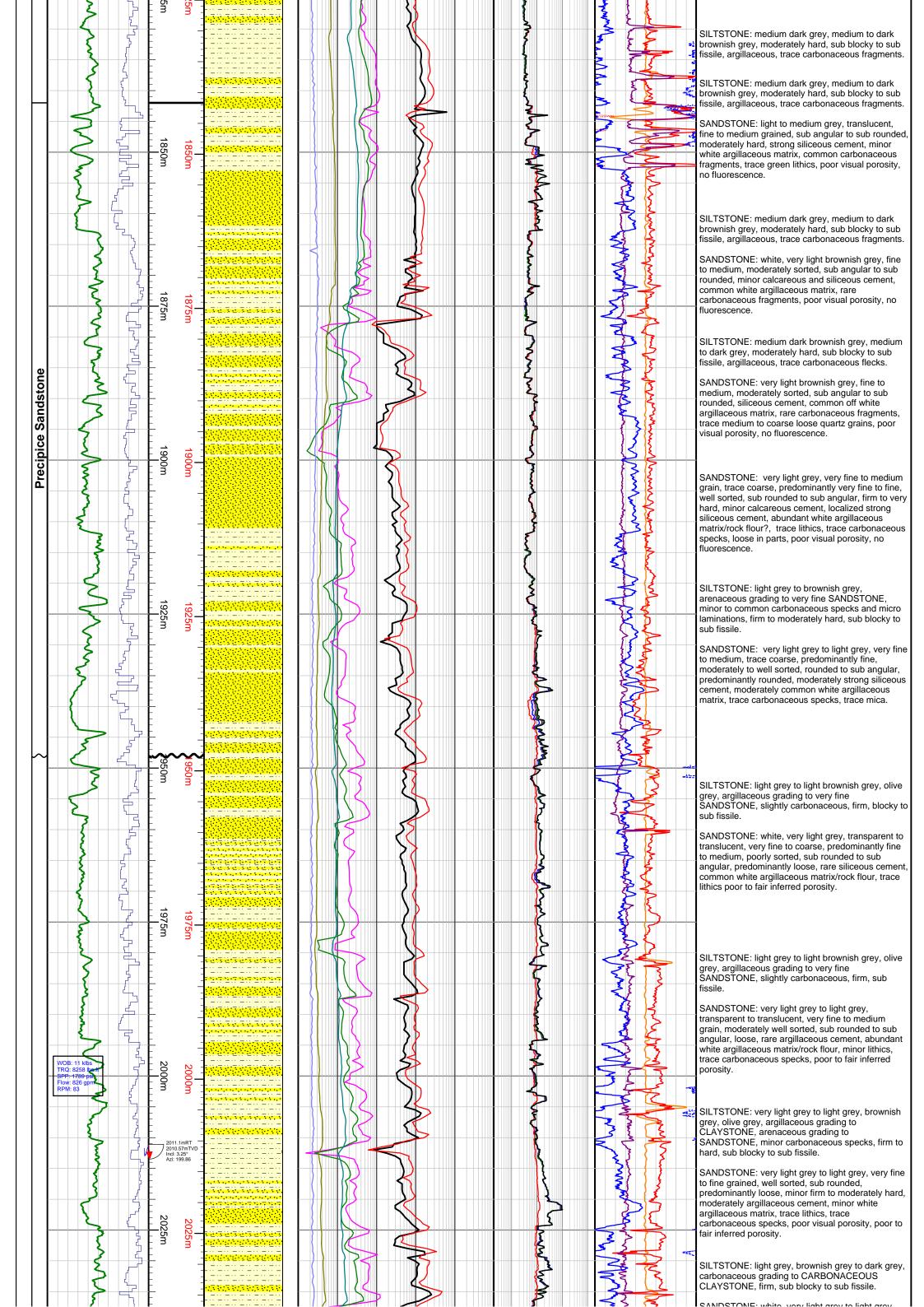


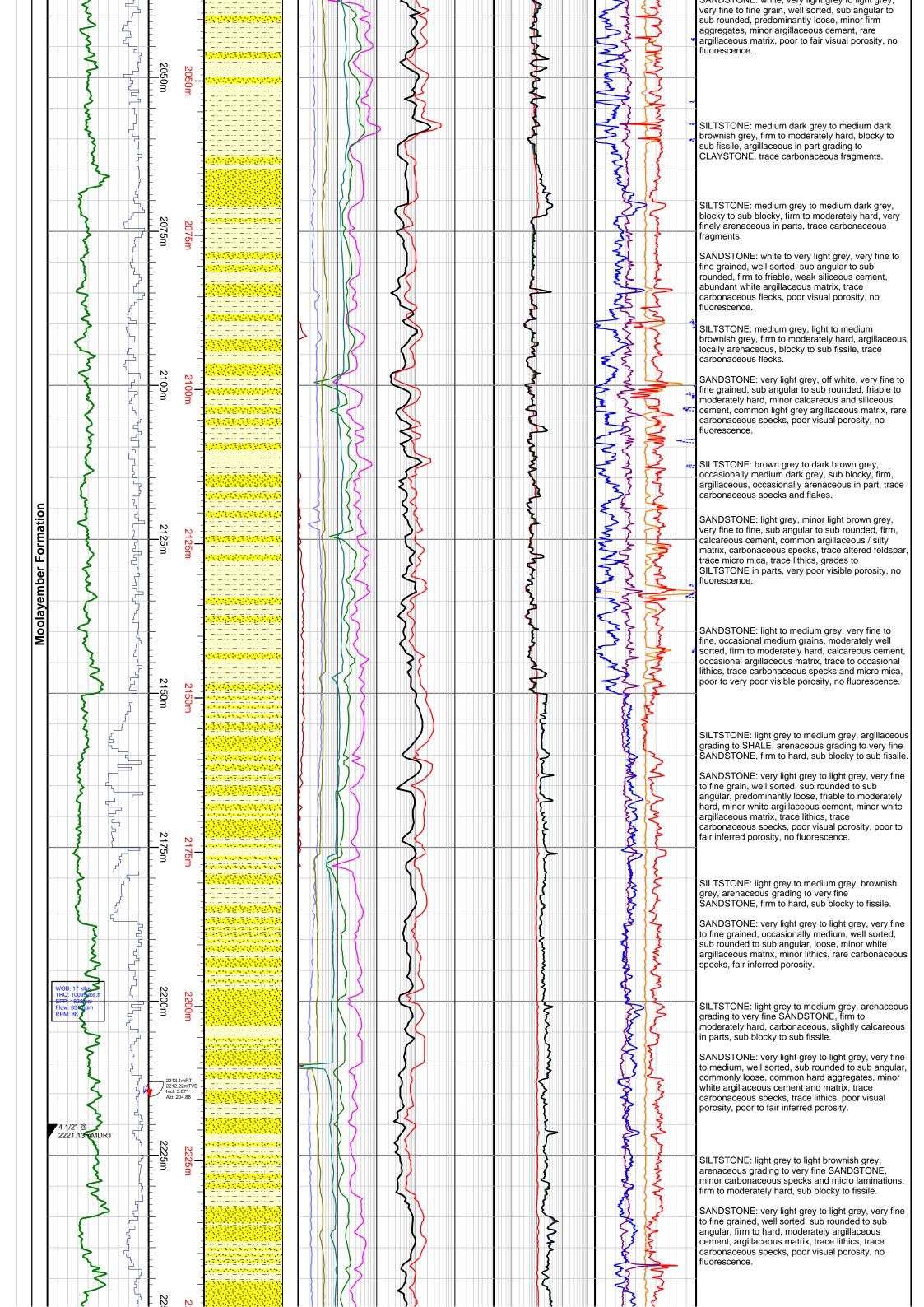


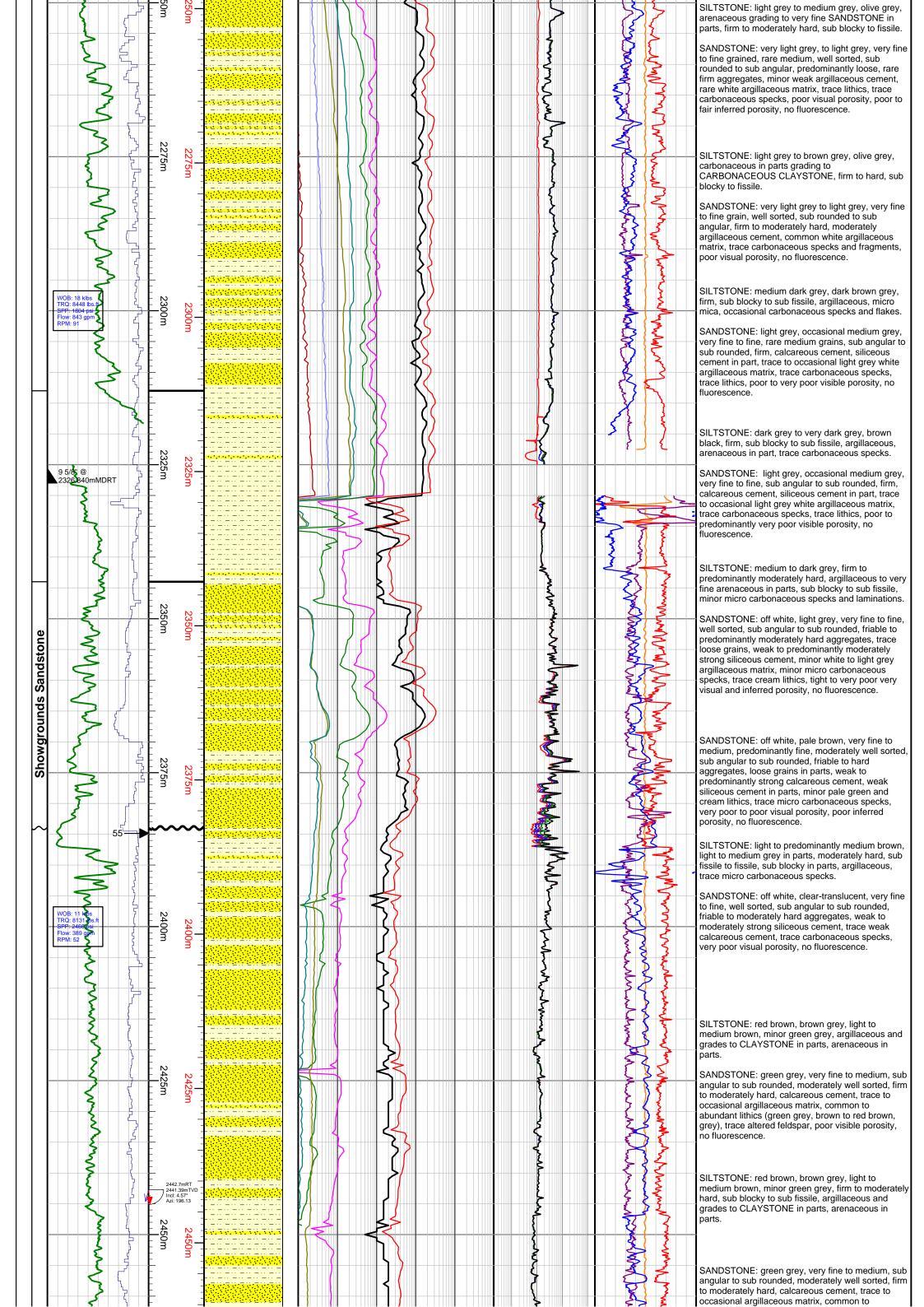


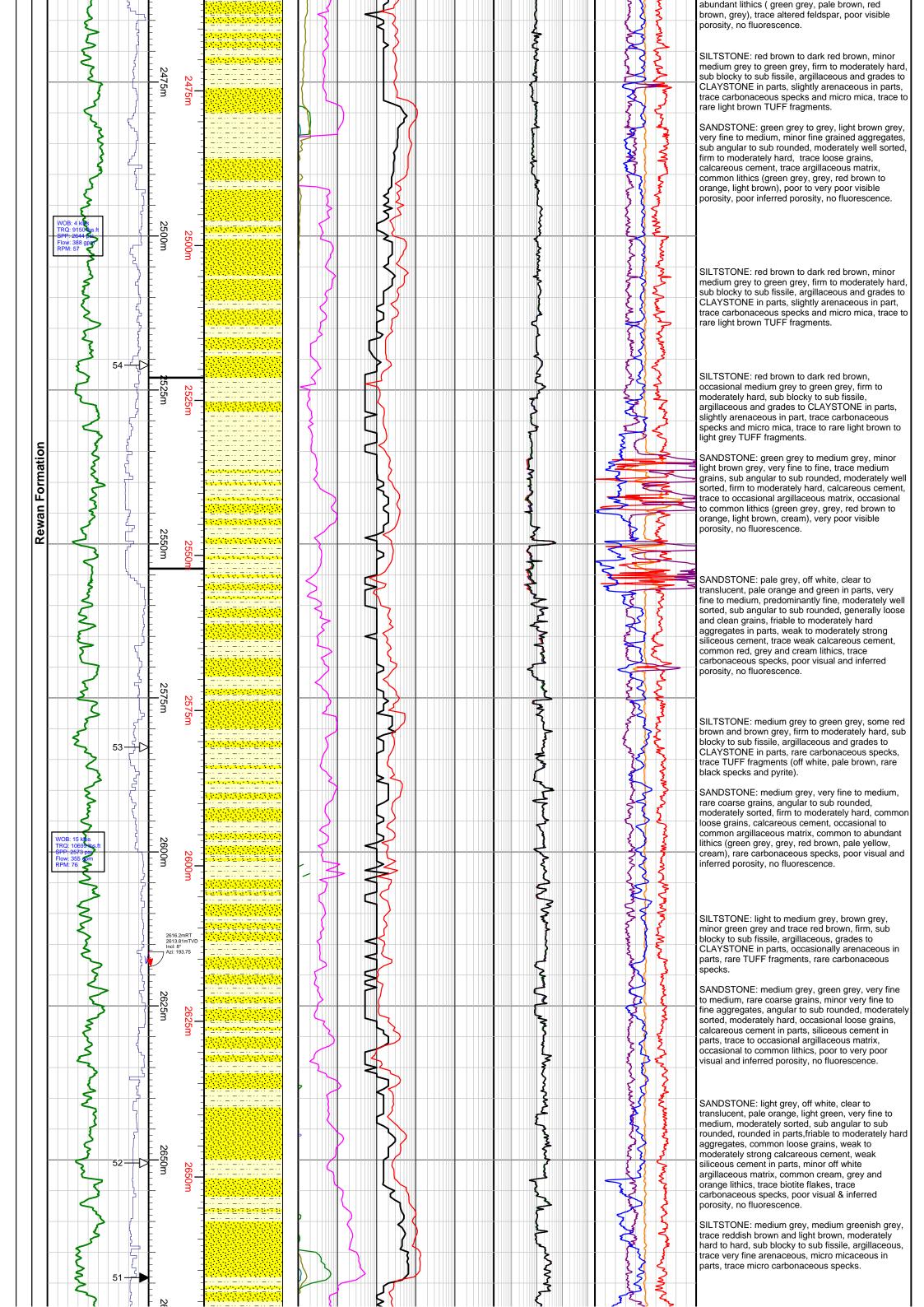


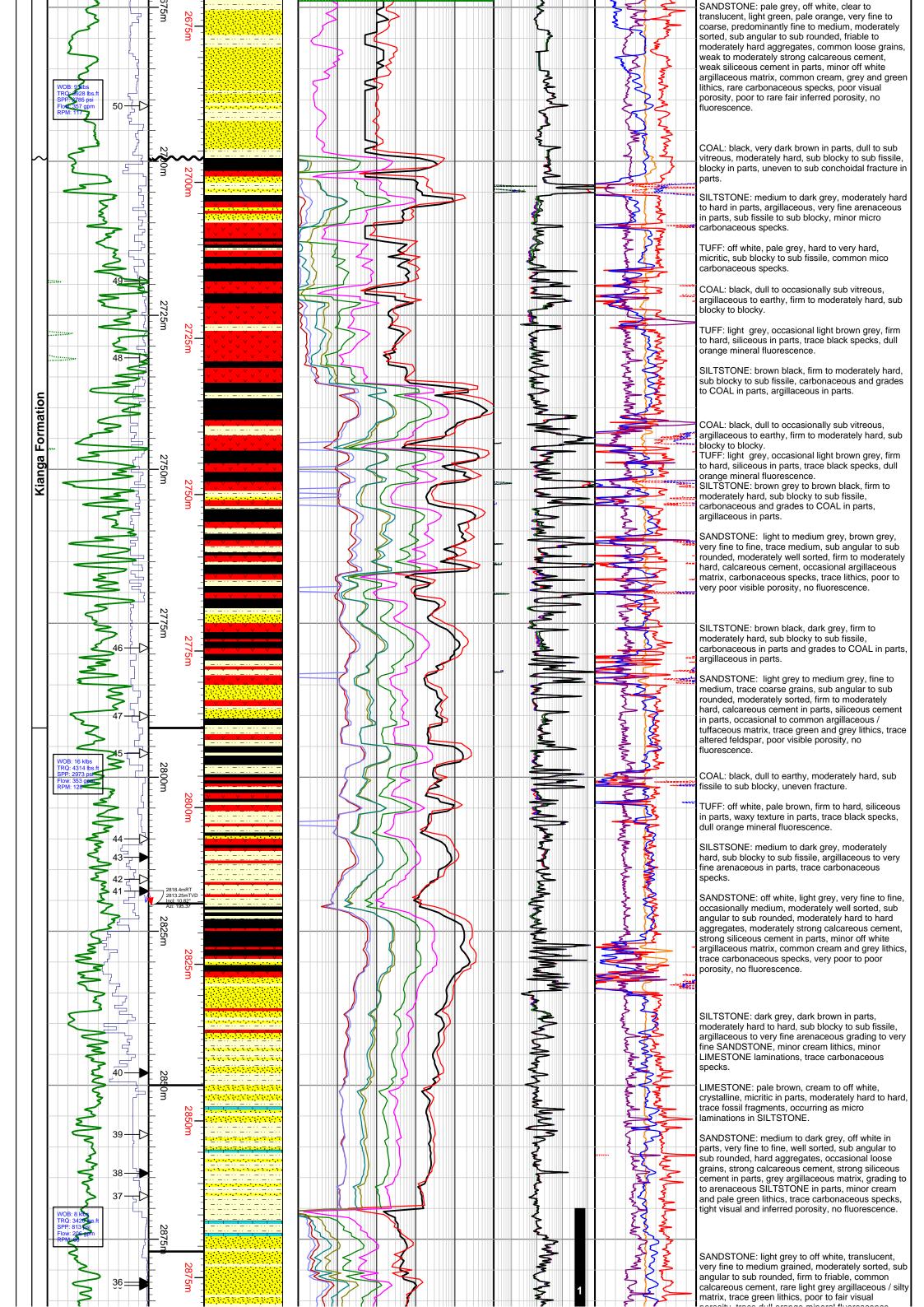


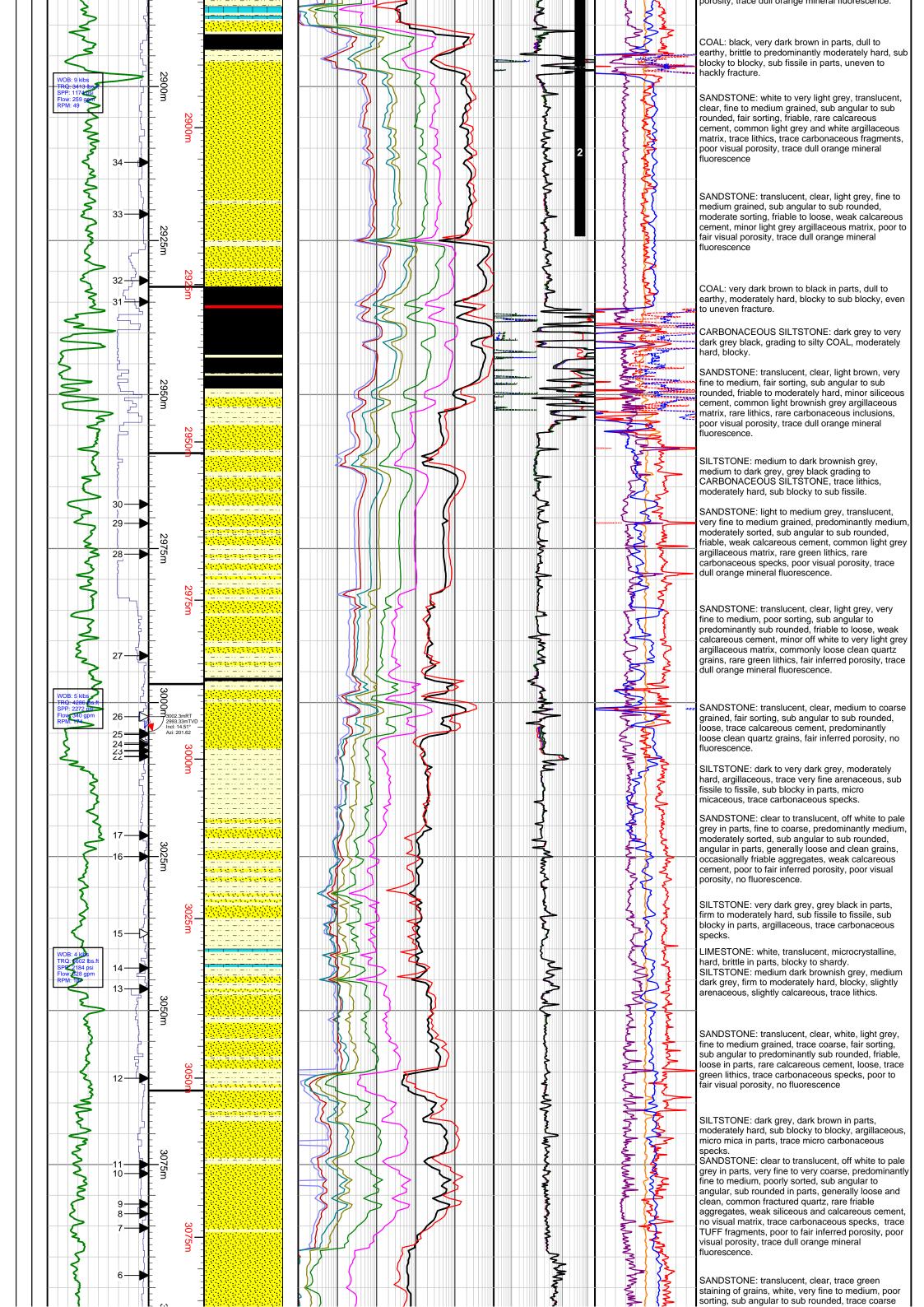


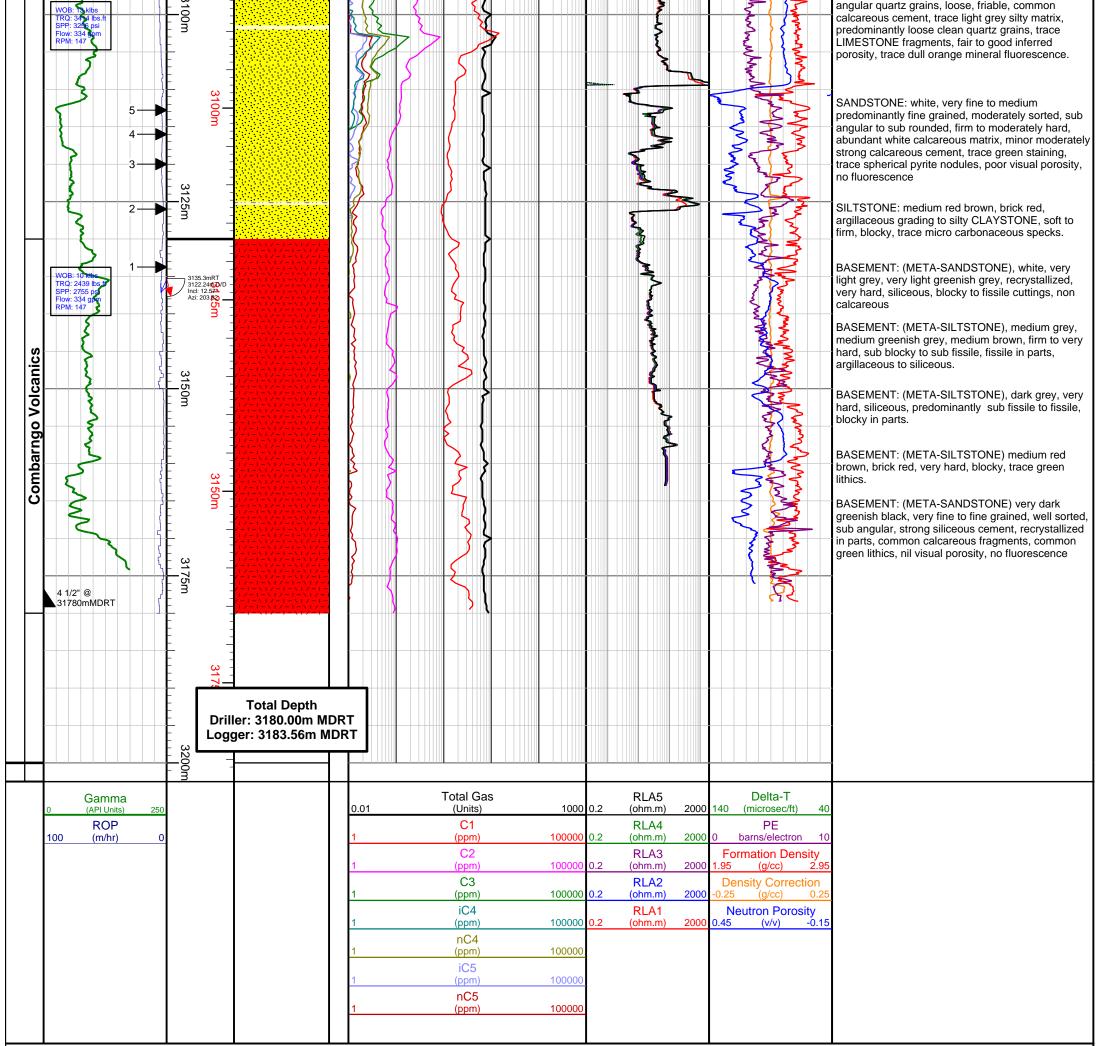












Dunk 1

	Sidewall Cores						
Depth (mMDRT)	Recovery	Lithology/Comments					
3133.75	Good	Volcanics/Metamorphics: mottled red brown fine to medium quartz groundmass, some large green grey deformed phenocrysts/inclusions, trace dark mafic inclusions.					
3126.00	Good Meta-SILTSTONE: light grey to light green grey, red brown, silty groundmass with light green grey granule to pebble TUFF fragments and lithics, with diffu						
3120.00	Poor	or SANDSTONE: light grey, very fine to fine, occasional medium, re-crystallised in part, hard, very poor visible porosity, no fluorescence.					
3116.00	Good	SANDSTONE, light grey mottled with dark grey, very fine to fine, some re-crystallised with diffuse grain boundaries, moderately hard, very poor to tight visible porosity, no fluorescence.					
3112.78	Good	SANDSTONE: light grey, very fine to fine, occasional medium, recrystallised in part, occasional red brown silty inclusions, moderately hard to hard, very poor visible porosity, no fluorescence.					
3093.00	Good	SANDSTONE: medium dark grey to dark grey, very fine to fine, trace medium grains, occasional light grey LIMESTONE micro laminations and inclusions, silty matrix, very poor visible porosity, trace patchy orange mineral fluorescence.					
3085.33	Fair	CONGLOMERATE: medium to dark grey, fine to coarse, common granule to pebble white to light grey and green grey siliceous inclusions, occasional silty inclusions, hard, very poor visible porosity, trace patchy orange mineral fluorescence.					
3083.00	Fair	SANDSTONE: brown grey, very fine to medium, occasional coarse grains, sub angular to sub round, trace lithics, occasional quartz overgrowths, hard, very poor visible porosity, trace patchy dull orange mineral fluorescence.					
3081.43	Poor	SANDSTONE: very light grey, very fine to very coarse clear to translucent quartz grains, sub angular to sub round, poorly sorted, abundant white to light grey matrix, moderately hard, very poor visible porosity, trace fluorescence as above.					
3076.47	Fair	SANDSTONE: light to medium grey, very fine to medium, common coarse to pebble sized inclusions, moderately sorted, trace dark grey lithics, moderately hard, poor to very poor visible porosity, trace dull orange patchy mineral fluorescence.					
3075.00	Good	SANDSTONE: light to medium grey, very fine to medium, common coarse to pebble sized inclusions, silty matrix, moderately hard, very poor visible porosity, trace patchy dull orange mineral fluorescence.					
3061.00	Good	SANDSTONE: medium dark grey, very fine to medium, trace coarse grains, sub angular to sub round, moderately sorted, silty matrix, occasional light grey to white lithics, silty matrix, moderately hard to hard, very poor visible porosity, patchy dull orange mineral fluorescence.					
3046.48	Good	SANDSTONE: medium dark grey, very fine to fine, occasional medium to coarse grains, occasional lithics, silty matrix, moderately hard to hard, very poor visible porosity, trace patchy dull orange mineral fluorescence.					
3043.10	Good	SILTSTONE: dark grey, dark brown grey, argillaceous, occasional LIMESTONE micro laminations, moderately hard to hard.					
3037.50	None	No sample recovered					
3025.00	Good	SILTSTONE: dark grey, dark brown grey, argillaceous, occasionally arenaceous in part, trace lithics, trace micro-mica, moderately hard to hard.					
3021.58	Good	SILTSTONE: very dark grey, dark brown grey, argillaceous, trace micro-mica, hard.					
3008.72	None	No sample recovered.					

3007.76	None	No sample recovered.				
3006.58	None	No sample recovered.				
3005.00	Fair	Sample recovered (broken) from damaged core head of Run 5. SANDSTONE: light grey, fine to coarse, occasional granular grains, very poorly sorted, trace lithics, quartz overgrowths, moderately hard to hard, poor visible porosity, trace patchy dull orange mineral fluorescence.				
3008.80	Good	SANDSTONE: light brown grey, fine to coarse, angular to sub round, poorly sorted, occasional argillaceous matrix, occasional broken grains, trace to occasional lithics, moderately hard, poor visible porosity, patchy dull orange mineral fluorescence.				
3007.90	Fair	SANDSTONE: fine to coarse as above.				
3006.80	Good	SANDSTONE: light brown grey, fine to very coarse, occasional granular grains, very poorly sorted, angular to sub round, occasional lithics, occasional matrix, poor visible porosity, trace patchy dull orange mineral fluorescence.				
3005.20	Poor	oor quality sample – rubble. SANDSTONE: as above.				
3002.30	None	No sample recovered				
2992.40	Good	SANDSTONE: medium dark grey brown grey, very fine to fine, trace medium grains, sub angular to sub round, silty matrix, very poor visible porosity, occasional patchy dull orange mineral fluorescence.				
2975.90	Good	SANDSTONE with interbedded SILTSTONE. SANDSTONE: as described above. SILTSTONE: dark grey, argillaceous, slightly arenaceous, hard.				
2970.90	Good	SANDSTONE: light to medium grey, very fine to fine, trace medium grains, sub angular to sub round, moderately sorted, trace matrix, trace lithics, moderately hard, very poor visible porosity, occasional patchy dull orange mineral fluorescence.				
2967.80	Fair	SANDSTONE: light to medium grey, very fine to coarse, angular to sub round, poorly sorted, trace argillaceous matrix, occasional lithics, very rare pyrite, quartz overgrowths, very poor visible porosity, rare patchy dull orange mineral fluorescence.				
2934.95	Good	SANDSTONE: medium to dark grey, fine to medium, occasional coarse, poorly sorted, angular to sub round, trace matrix, common altered feldspar, occasional quartz overgrowths, very poor visible porosity, no fluorescence.				
2931.50	Good	SANDSTONE: medium dark grey, fine to medium, occasional coarse, angular to sub round, common to abundant altered feldspar (cream to light brown), trace matrix, occasional quartz overgrowths, very poor visible porosity, no fluorescence.				
2920.70	Good	SANDSTONE: generally as described above – common to abundant altered feldspar, trace to occasional matrix, trace lithics, moderately hard to hard, very poor visible porosity, no fluorescence.				
2912.30	Good	SANDSTONE: medium grey, light brown grey, fine to coarse, trace very coarse grains, trace argillaceous matrix, common lithics, common altered feldspar, occasional quartz overgrowths, moderately hard to hard, very poor visible porosity, no fluorescence.				
2882.50	Good	SANDSTONE: medium grey, fine to medium, occasional coarse, sub angular to sub round, moderately sorted, common lithics, occasional altered feldspar (cream, pale brown), moderately hard, very poor visible porosity, no fluorescence.				
2882.00	Good	SANDSTONE" medium grey, fine to medium, trace coarse grains, occasional lithics, trace to occasional altered feldspar, moderately hard to hard, very poor visible porosity, no fluorescence.				
2868.00	None	No sample recovered				
2864.30	Good	SILTSTONE: medium dark grey, abundant LIMESTONE fragments, fossil fragments.				
2858.00	None	No sample recovered.				
2848.00	Good	SANDSTONE with interbedded SILTSTONE separated by Tuffaceous laminae. SANDSTONE: medium dark grey, very fine to fine, grades to SILTSTONE, occasional lithics, rare carbonaceous specks, moderately hard, very poor visible porosity, no fluorescenc SILTSTONE: light grey, very finely arenaceous and grades to SANDSTONE. TUFF / CLAYSTONE?: pale brown firm.				
2818.49	Good	SILTSTONE: light to medium grey, very finely arenaceous and grades to very fine SANDSTONE in part, occasional carbonaceous specks, micro-mica, moderately hard to hard.				
2816.57	None	No sample recovered.				
2813.00	Fair	SANDSTONE: light grey, very fine, grades to SILTSTONE, sub angular to sub round, occasional cark micro-specks, moderately hard, very poor visible porosity, no fluorescence.				
2810.00	None	No sample recovered.				
2796.11	None	No sample recovered.				
2779.00	None	No sample recovered.				
2790.07	None	No sample recovered.				
2731.91	None	No sample recovered.				
2719.45	None	No sample recovered.				
2691.00	None	No sample recovered.				
2669.12	Good	SANDSTONE: light to medium grey, green grey, very fine to medium, trace coarse grains, sub angular to sub round, trace carbonaceous specks, common to abundant lithics (green grey, grey, pale orange), trace altered feldspar, moderately hard, very poor visible porosity, no fluorescence.				
2650.50	None	No sample recovered.				
2582.99	None	No sample recovered.				
2520.97	None	No sample recovered.				
2384.85	Good	SANDSTONE: light grey, light brown grey, fine to very coarse, angular to sub round, occasional matrix, trace lithics, occasional altered feldspar, poor to fair visible porosity, no fluorescence.				

Conventional Core						
No	Interval (m MDRT)	Cut (m)	Recovered (m)	Recovery (%)	Formation	
1	2870.00 - 2897.00	27.00	26.66	98.7	Scotia Coal Cycle, Tinowon Formation	
2	2897.00 - 2924.27	27.27	27.61	101.0	Tinowon Formation, Upper Tinowan Sandstone	

MWD Summary							
Hole Size (inch)	Tool	Run	Depth Interval (mMDRT)	Date	Max Temp (°C)		
17 1/2"	HDS1-L/GAMMA RAY/AWR	1	53 - 1080	21-11-2014 to 26-11-2014	60		
12 1/4"	HDS1-L/GAMMA RAY/AWR/DPM	2	1088 - 2313	30-11-2014 to 07-12-2014	70		
6 3/4"	HDS1-L/GAMMA RAY/AWR/DPM	3	2316 - 2866	12-12-2014 to 18-12-2014	84		
6 3/4"	HDS1-L/GAMMA RAY/AWR/DPM	4	2860 - 3057	22-12-2014 to 25-12-2014	81		
6 3/4"	HDS1-L/GAMMA RAY/AWR/DPM	5	3057 - 3153	25-12-2014 to 28-12-2014	83		