

Moa 2



Scale 1:500

Composite Well Log

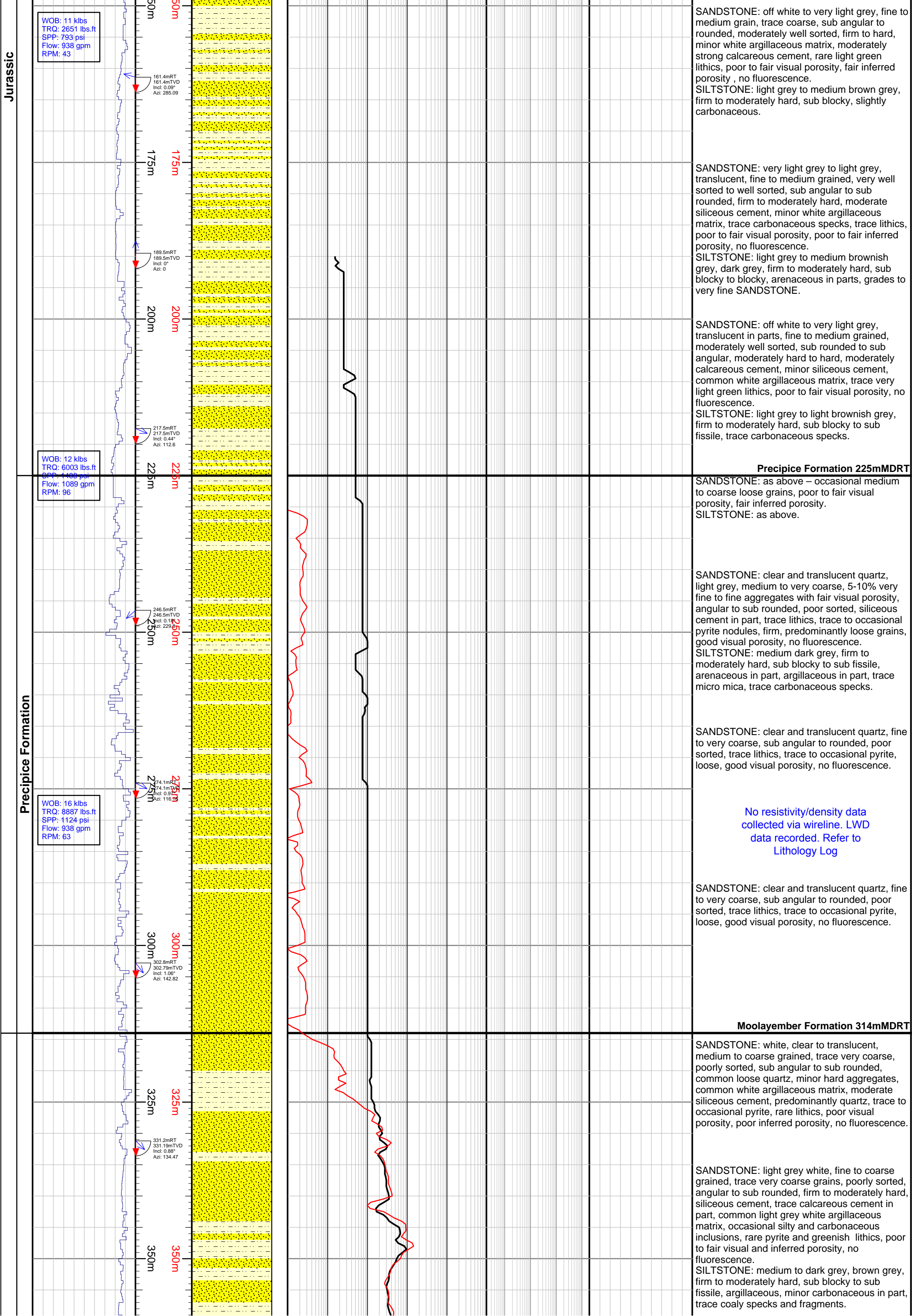
Well Data		
Well Name: Moa 2	Rig: TCL 1, Easternwell 106	Geologists:
Status: Petroleum - Exploration Well	Latitude: 25° 20' 27.5788" S	Operations Geologist: Anthony Mountford
Area:	Longitude: 149° 50' 26.2770" E	Wellsite Geologist: Anthony Drake
Basin: Bowen Basin	Spud Date: 20-10-2014 (TCL 1)	Wellsite Geologist: Jim Mitchell
Location: ATP 768	TD Date: 21-03-2015	Wellsite Geologist: Brendan Lacy
PID:	Rig Release: 09-04-2015 (Easternwell 106)	Wellsite Geologist: John Pitman
UWI: 100000789131	Datum: AHD	Contractors:
Partners:	RT Elevation: 276.26	Drilling: Easternwell Energy
BG International (Aus) Pty Limited 100%	TD Formation: Lower Rewan Group	Wireline Logging: Schlumberger
	TD Depth: 4400.00mMDRT (driller)	Cementing: Halliburton
	4396.60mMDRT (logger)	Mud Engineering: Newpark
		Mud Logging: Weatherford
		MWD: Pathfinder
		Coring: Halliburton

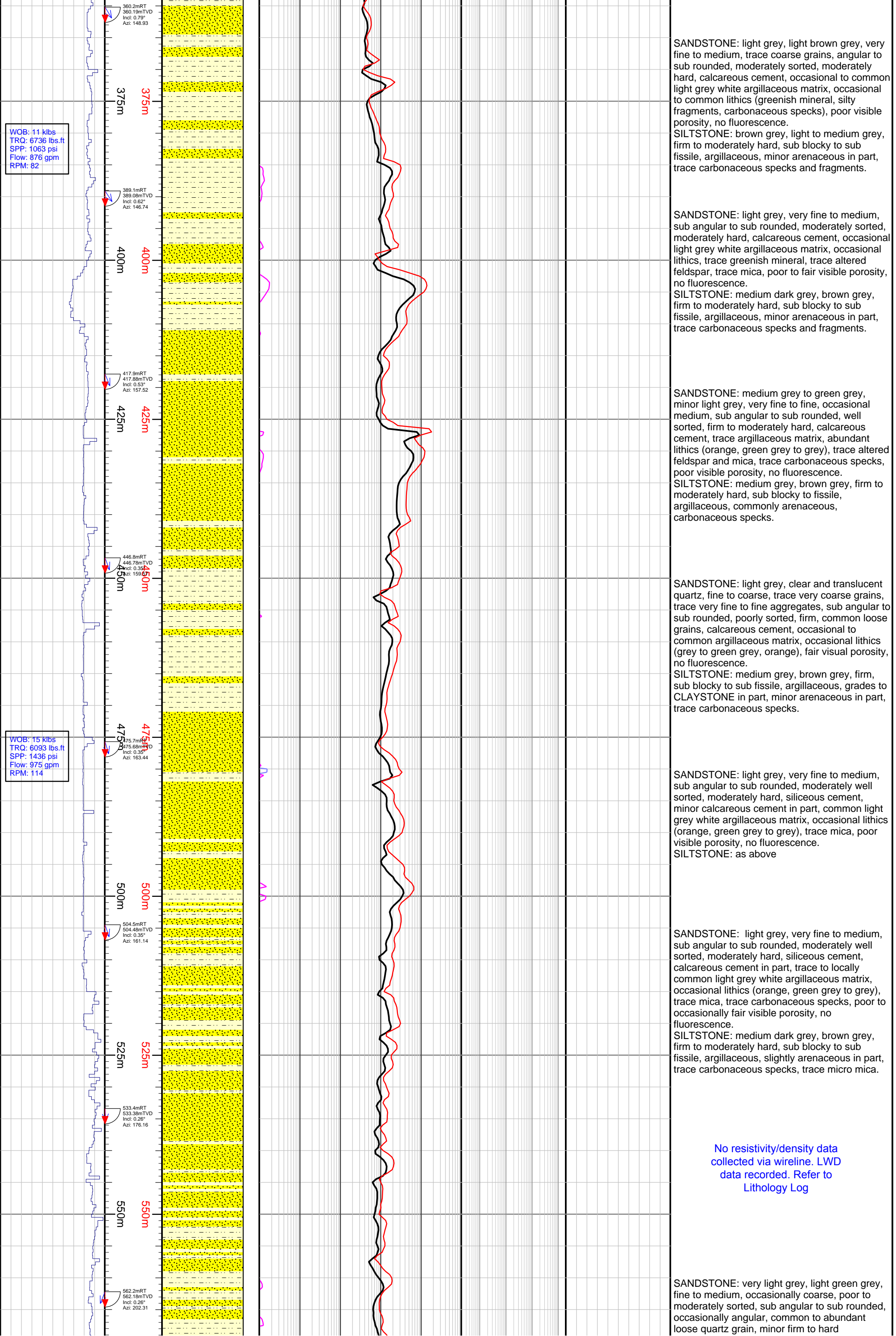
Profile View of Well Path	Location Map	Plan View of Well Path

Key				
Breccia	Limestone	Boundstone	Carbonaceous	
Conglomerate	Dolomitic Limestone	Grainstone	Bituminous	
Sand/Sandstone	Dolomite	Mudstone	Oolitic	
Silt/Siltstone	Calcareous Dolomite	Packstone	Chalky	
Clay/Claystone	Chert	Wackestone	Glaucconitic	
Marl	Anhydrite	Silty	Micaceous	
Shale	Halite	Argillaceous	Pyritic	
Tuff	Polyhalite	Calcareous	Spicules	
Volcanics	Coal/Lignite	Dolomitic	Fossils	
Cement	No sample	Brecciated		

Well Configuration					
Hole and Casing Details					
Hole Size	Hole (mMDRT)	Casing Size	Shoe (mMDRT)	Hanger (mMDRT)	Comments
26"	68.91	20"	65.21		Pre-set
17 1/2"	1018.00	13 3/8"	1015.00		

Stratigraphy		Gamma Ray	Depth (m)	Lithology Interpreted	Shows	Gas Data		Resistivity		Density/Neutron		Lithological Descriptions
Age	Formation					Total Gas (Units)						
		ROP (m/hr) Gamma (API Units)				0.02	2000					
		150 0	0m			2	C1 (ppm) 200000					
						2	C2 (ppm) 200000					
						2	C3 (ppm) 200000	0.2	RLA1 (ohm.m) 2000	Neutron Porosity (v/v) -0.15		
						2	iC4 (ppm) 200000	0.2	RLA2 (ohm.m) 2000	Density Correction (g/cc) -0.25 0.25		
						2	nC4 (ppm) 200000	0.2	RLA3 (ohm.m) 2000	Formation Density (g/cc) 1.95 2.95		
						2	iC5 (ppm) 200000	0.2	RLA4 (ohm.m) 2000	PE barns/electron 10		
						2	nC5 (ppm) 200000	0.2	RLA5 (ohm.m) 2000	Delta-T (microsec/ft) 40		
			0m									Evergreen Formation 8.71mMDRT
			25m									No resistivity/density data collected via wireline. LWD data recorded. Refer to Lithology Log
			50m									
			75m									
			100m									
			125m									
			150m									
			175m									
			200m									
			225m									
			250m									
			275m									
			300m									
			325m									
			350m									
			375m									
			400m									
			425m									
			450m									
			475m									
			500m									
			525m									
			550m									
			575m									
			600m									
			625m									
			650m									
			675m									
			700m									
			725m									
			750m									
			775m									
			800m									
			825m									
			850m									
			875m									
			900m									
			925m									
			950m									
			975m									
			1000m									
			1025m									
			1050m									
			1075m									
			1100m									
			1125m									
			1150m									
			1175m									
			1200m									
			1225m									
			1250m									
			1275m									
			1300m									
			1325m									
			1350m									
			1375m									
			1400m									
			1425m									
			1450m									
			1475m									
			1500m									
			1525m									
			1550m									
			1575m									
			1600m									
			1625m									
			1650m									
			1675m									
			1700m									
			1725m									
			1750m									
			1775m									
			1800m									
			1825m									
			1850m									
			1875m									
			1900m									
			1925m									
			1950m									
			1975m									
			2000m									
			2025m									
			2050m									
			2075m									
			2100m									
			2125m									
			2150m									
			2175m									
			2200m									
			2225m									
			2250m									
			2275m									
			2300m									
			2325m									
			2350m									
			2375m									
			2400m									
			2425m									
			2450m									
			2475m									
			2500m									
			2525m									
			2550m									
			2575m									
			2600m									
			2625m									
			2650m									
			2675m									
			2700m									
			2725m									
			2750m									
			2775m									
			2800m									
			2825m									
			2850m									
			2875m									
			2900m									
			2925m									
			2950m									
			2975m									
			3000m									
			3025m									
			3050m									
			3075m									
			3100m									
			3125m									
			3150m									
			3175m									
			3200m									
			3225m									
			3250m									
			3275m									
			3300m									
			3325m									
			3350m									
			3375m									
			3400m									
			3425m									
			3450m									
			3475m									
			3500m									
			3525m									
			3550m									
			3575m									
			3600m									
			3625m									
			3650m									
			3675m									
			3700m									
			3725m									
			3750m									
			3775m									
			3800m									
			3825m									
			3850m									
			3875m									
			3900m									
			3925m									
			3950m									
			3975m									
			4000m									
			4025m									
			4050m									
			4075m									
			4100m									
			4125m									
			4150m									
			4175m									
			4200m									
			4225m									
			4250m									
			4275m									
			4300m									
			4325m									
			4350m									
			4375m									
			4400m									
			4425m									
			4450m									
			4475m									
			4500m									
			4525m									
			4550m									
			4575m									
			4600m									
			4625m									
			4650m									
			4675m									
			4700m									
			4725m									
			4750m									
			4775m									
			4800m									
			4825m									
			4850m									
			4875m									
			4900m									
			4925m									





WOB: 12 klbs
TRQ: 8403 lbs.ft
SPP: 1382 psi
Flow: 976 gpm
RPM: 105

575m

575m

591.3mRT
591.28mTVD
Incl: 0.26°
Azi: 187.35

600m

600m

620.2mRT
620.18mTVD
Incl: 0.35°
Azi: 200.97

625m

625m

648.9mRT
648.98mTVD
Incl: 0.44°
Azi: 193.68

650m

650m

678mRT
677.98mTVD
Incl: 0.18°
Azi: 222.73

675m

675m

WOB: 13 klbs
TRQ: 9041 lbs.ft
SPP: 1535 psi
Flow: 976 gpm
RPM: 54

700m

700m

706.9mRT
706.88mTVD
Incl: 0.18°
Azi: 206.87

725m

725m

735.8mRT
735.78mTVD
Incl: 0.09°
Azi: 168.02

750m

750m

764.6mRT
764.58mTVD
Incl: 0.09°
Azi: 234.02

775m

775m

aggregates, moderately calcareous cement, minor siliceous cement, white to light grey argillaceous matrix, common lithics (light green, brown orange, brown grey) trace feldspar, trace carbonaceous specks, poor to fair visual porosity, poor to fair inferred porosity, no fluorescence.
SILTSTONE: light grey to medium grey, light brown grey, firm to moderately hard, sub blocky to sub fissile, arenaceous in part grading to very fine SANDSTONE.

SANDSTONE: very light grey to light grey, very light green grey, fine to medium grain, well sorted, sub rounded to sub angular, hard, siliceous cement, trace off white argillaceous matrix, common lithics (pale brown, orange, green grey) trace carbonaceous specks, poor to fair visual porosity, no fluorescence.
SILTSTONE: light grey to light brown grey, firm to moderately hard, sub blocky to sub fissile, trace carbonaceous specks.

SANDSTONE: very light grey to light grey, light green grey, translucent, fine to medium grain, trace coarse, sub angular to sub rounded, trace rounded, poor sorted, common loose, occasionally moderately hard aggregates, siliceous cement, minor off white argillaceous matrix, trace lithics, trace feldspars, trace mica, trace carbonaceous specks, poor visual porosity, poor to fair inferred porosity, no fluorescence.
SILTSTONE: very light grey, brown grey, firm to moderately hard, sub blocky to sub fissile, rare blocky, arenaceous grading to very fine SANDSTONE, occasionally argillaceous, trace carbonaceous specks.

SANDSTONE: light grey, light green grey, fine to medium, trace to occasional coarse grains, sub angular to sub rounded, moderately sorted, firm to moderately hard, occasional to common loose grains, siliceous cement, minor calcareous cement in part, trace to occasional light grey white argillaceous matrix, occasional lithics, (green, orange and silty fragments), trace mica, trace altered feldspar, poor visible porosity, poor to fair inferred porosity, no fluorescence.

SANDSTONE: light grey, fine to medium, trace to occasional coarse grains, angular to sub rounded, moderately sorted, firm to moderately hard, occasional loose grains, siliceous cement, minor calcareous cement in part, occasional light grey white argillaceous matrix, occasional lithics, (green, pale orange, green grey), silty fragments, rare pyrite, trace carbonaceous specks, trace mica, poor visible porosity, poor to fair inferred porosity, no fluorescence.
SILTSTONE: medium grey, brown grey, moderately hard, sub blocky to sub fissile, argillaceous, arenaceous in part, carbonaceous specks, trace micro mica.

SILTSTONE: brown grey, medium grey, firm to moderately hard, sub blocky to sub fissile, argillaceous, slightly arenaceous in part, carbonaceous specks, trace micro mica.

Moolayember Formation

WOB: 9 klbs
TRQ: 2660 lbs.ft
SPP: 1539 psi
Flow: 975 gpm
RPM: 87

793.5mRT
793.48mTVD
Incl: 0.09°
Azi: 84.87

822.5mRT
822.46mTVD
Incl: 0°
Azi: 0

851.4mRT
851.38mTVD
Incl: 0.09°
Azi: 126.65

WOB: 15 klbs
TRQ: 9222 lbs.ft
SPP: 1613 psi
Flow: 974 gpm
RPM: 89

880.3mRT
880.28mTVD
Incl: 0°
Azi: 354.42

909.2mRT
909.18mTVD
Incl: 0.09°
Azi: 51.72

938mRT
937.98mTVD
Incl: 0.09°
Azi: 9.94

966.9mRT
966.88mTVD
Incl: 0.09°
Azi: 39.83

WOB: 17 klbs
TRQ: 5024 lbs.ft
SPP: 1691 psi
Flow: 985 gpm
RPM: 59

979mRT
978.98mTVD
Incl: 0.18°
Azi: 28.91

SANDSTONE: light grey, fine to medium, occasional coarse grains, angular to sub rounded, moderately sorted, firm to moderately hard, occasional loose grains, calcareous cement, occasional light grey white argillaceous matrix, occasional lithics, (green, pale orange, green grey), rare silty fragments, rare pyrite, trace carbonaceous specks, trace mica, poor visible porosity, poor to fair inferred porosity, no fluorescence.

SILTSTONE: medium grey, brown grey, firm to moderately hard, sub blocky to sub fissile, argillaceous, occasionally arenaceous in part, trace carbonaceous specks, trace micro mica.

SANDSTONE: light grey, fine to medium, trace to occasional coarse grains, sub angular to sub rounded, minor angular grains, moderately sorted, firm to moderately hard, occasional loose grains, calcareous cement, occasional light grey white argillaceous matrix, occasional lithics (orange, minor green to green grey), rare silty fragments, rare pyrite, trace carbonaceous specks, trace mica, poor visible porosity, poor to fair inferred porosity, no fluorescence.

SANDSTONE: light grey, fine to medium grain, sub angular to sub rounded, minor angular, moderately sorted, firm to moderately hard, occasionally loose, minor calcareous cement, occasionally light grey argillaceous matrix, trace lithics (orange, green grey), rare mica, rare pyrite, trace carbonaceous specks, poor visual porosity, poor to fair inferred porosity, no fluorescence.

SILTSTONE: light grey to medium grey, light brown grey, light green grey, firm to moderately hard, sub blocky to sub fissile, argillaceous, arenaceous in parts grading to very fine SANDSTONE, trace carbonaceous specks, trace micro mica.

SANDSTONE: light grey, clear to translucent, fine to medium grain, minor coarse, sub rounded to sub angular, trace angular, trace rounded, poor to moderately sorted, firm to moderately hard, predominantly loose quartz, minor calcareous cement, occasionally light grey to light green grey argillaceous matrix, trace lithics (green grey, orange) trace carbonaceous specks, trace mica, poor visual porosity, poor to fair inferred porosity, no fluorescence.

SILTSTONE: very light grey to light brown grey, firm to moderately hard, sub blocky to sub fissile, occasionally hard, argillaceous, arenaceous in parts grading to very fine SANDSTONE, minor to trace carbonaceous specks, micro mica in part.

SANDSTONE: very light grey to light grey, light brown grey, translucent, very fine to medium grain, occasionally coarse, sub rounded to sub angular, trace angular, poor sorted, firm to moderately hard, common to abundant loose grain, weak calcareous cement, minor very light grey argillaceous matrix, trace lithics, trace mica, trace carbonaceous specks, poor visual porosity, poor to fair inferred porosity, no fluorescence.

SILTSTONE: light grey to medium grey, light brown grey, firm to moderately hard, sub blocky to fissile, predominantly sub fissile, argillaceous, arenaceous in parts grading to very fine SANDSTONE, micro mica.

SANDSTONE: very light grey to light grey, translucent to transparent, locally orange brown, fine to medium grain, occasionally coarse, sub rounded to sub angular, moderately well sorted, firm to moderately hard, common loose, minor weak calcareous cement, occasionally off white to very light grey argillaceous matrix, trace mica, trace lithics, trace carbonaceous specks, poor visual porosity, poor to fair inferred porosity, no fluorescence.

SANDSTONE: light grey, some light green grey, fine to medium, occasional coarse grains, sub rounded to sub angular, trace angular, firm to moderately hard aggregates, common loose grains, calcareous cement, trace to occasional light grey argillaceous matrix, trace to occasional lithics (orange brown, pale orange, green grey), trace mica, trace carbonaceous specks, porosity visual porosity, poor to fair inferred porosity, no fluorescence.

SILTSTONE: light to medium grey, light brown grey, firm to moderately hard, sub blocky to fissile, argillaceous, arenaceous in part, trace micro mica, trace carbonaceous.

WOB: 15 klbs
TRQ: 5184 lbs.ft
SPP: 1885 psi
Flow: 984 gpm
RPM: 87

13 3/8" @
10150mMDRT

WOB: 24 klbs
TRQ: 4689 lbs.ft
SPP: 1231 psi
Flow: 793 gpm
RPM: 91

WOB: 13 klbs
TRQ: 3086 lbs.ft
SPP: 1255 psi
Flow: 793 gpm
RPM: 105

WOB: 20 klbs
TRQ: 8535 lbs.ft
SPP: 1121 psi
Flow: 709 gpm
RPM: 64

WOB: 18 klbs
TRQ: 8557 lbs.ft
SPP: 1074 psi

1000m
1025m
1050m
1075m
1100m
1125m
1150m
1175m
12

1006.3mRT
1006.28mTVD
Incl: 0.09°
Azi: 282.02

1035.2mRT
1035.18mTVD
Incl: 0.35°
Azi: 247.39

1064mRT
1063.98mTVD
Incl: 0.35°
Azi: 245.19

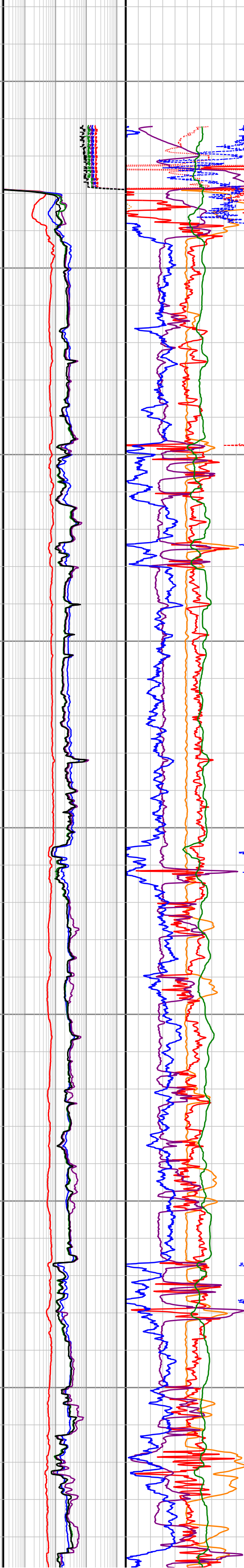
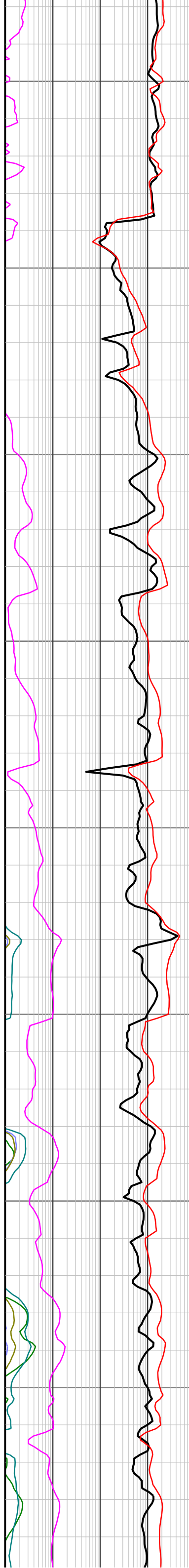
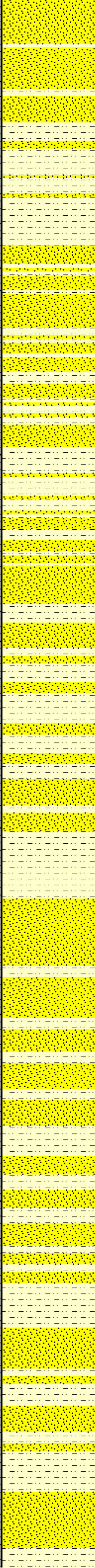
1092.9mRT
1092.88mTVD
Incl: 0.35°
Azi: 236.58

1121.9mRT
1121.88mTVD
Incl: 0.35°
Azi: 233.76

1150.9mRT
1150.78mTVD
Incl: 0.18°
Azi: 214.25

1179.8mRT
1179.78mTVD
Incl: 0.18°
Azi: 223.39

1000m
1025m
1050m
1075m
1100m
1125m
1150m
1175m
12



SANDSTONE : light grey, fine to medium, trace to occasional coarse grains, sub rounded to sub angular, trace angular, firm to moderately hard aggregates, common loose grains, calcareous cement, occasional to locally common argillaceous matrix, trace to occasional lithics (orange brown, pale orange, green grey), trace mica, trace carbonaceous specks, porosity visual porosity, no fluorescence.

SILTSTONE: brown grey, medium grey, moderately hard to hard, sub blocky to sub fissile, argillaceous, commonly arenaceous, carbonaceous specks.

SILTSTONE: light to predominantly medium grey, medium to dark brown in parts, moderately hard to hard in parts, argillaceous to very fine arenaceous, grading to very fine SANDSTONE in parts, sub fissile to sub blocky, blocky in parts, minor micro micaceous specks, trace micro carbonaceous specks and inclusions.

SANDSTONE: predominantly off white, clear to translucent, light grey, pale yellow in parts, very fine to medium, occasional coarse grains, moderately sorted, sub angular to sub rounded, rounded in parts, friable to moderately hard aggregates, common loose grains, weak to moderately strong siliceous cement, weak calcareous cement in parts, minor to locally common white argillaceous matrix, common green, red and grey lithics, minor biotite flecks, trace carbonaceous specks, poor visual porosity, poor to fair inferred porosity, no fluorescence.

SILTSTONE: medium brown, light to medium grey in parts, moderately hard to hard, argillaceous, very fine arenaceous in parts, sub fissile to sub blocky, trace micro carbonaceous specks and laminations, micro micaceous in parts.

SANDSTONE: off white, pale brown in parts, very fine to medium, moderately well sorted, sub angular to sub rounded, friable to moderately hard aggregates, loose in parts, weak to moderately strong calcareous cement, weak to moderately strong siliceous cement in parts, common white argillaceous matrix, common biotite flecks, common green, red and cream lithics, trace carbonaceous specks, poor visual & inferred porosity, no fluorescence.

SILTSTONE: light to predominantly medium grey, light to medium brown, moderately hard to hard, predominantly argillaceous, very fine arenaceous in parts, sub fissile to sub blocky, minor micro carbonaceous laminations and specks.

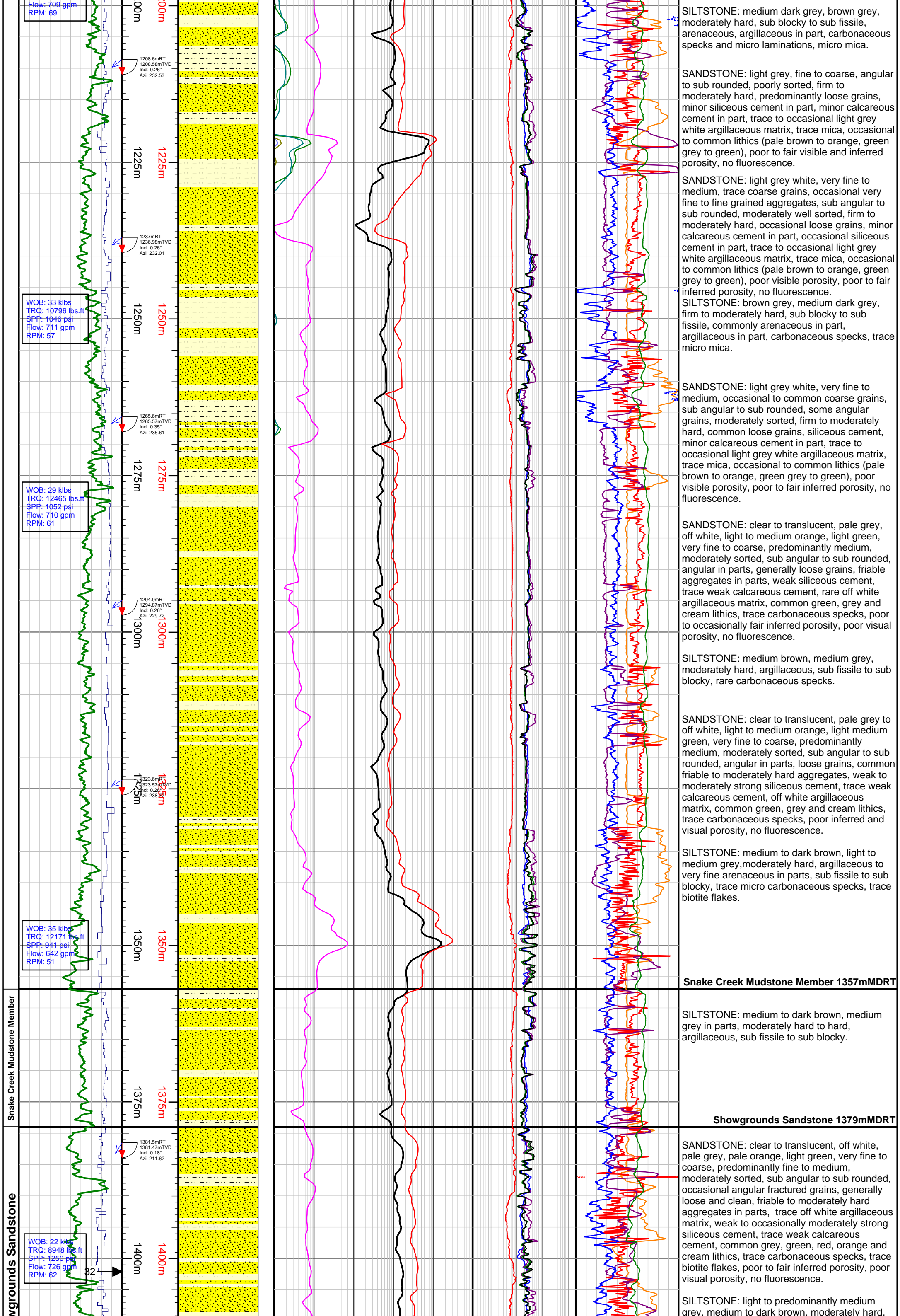
SANDSTONE: light grey white pale brown, very fine to medium, trace coarse grains, sub angular to sub rounded, moderately well sorted, moderately hard, common loose grains, calcareous cement, occasional to common light grey white argillaceous matrix, occasional mica, occasional lithics (pale brown to orange, green grey to green), poor visible porosity, poor to fair inferred porosity, no fluorescence.

SILTSTONE: medium dark grey, brown grey, moderately hard, sub blocky to sub fissile, arenaceous, argillaceous in part, carbonaceous specks and micro laminations, micro mica.

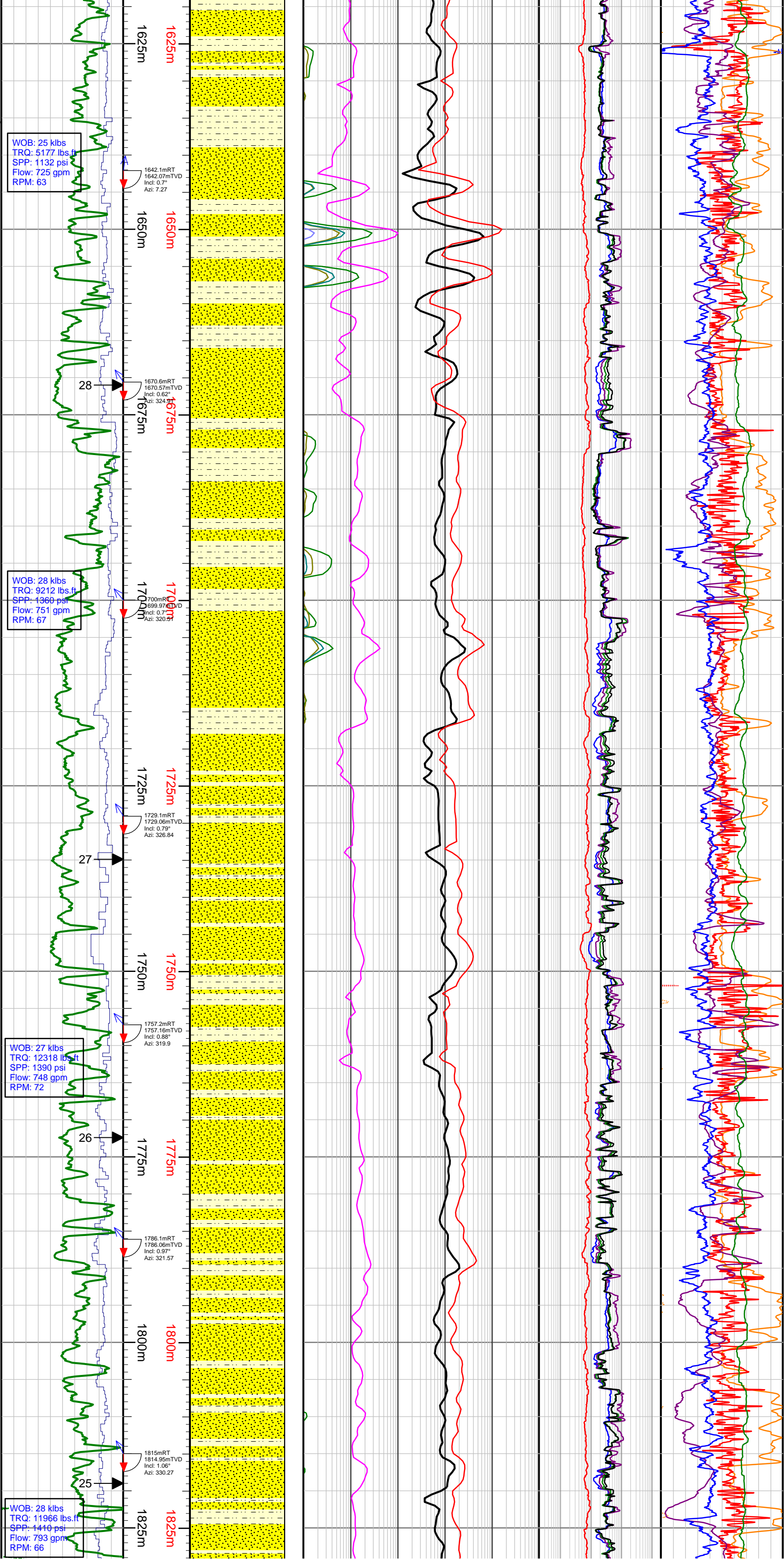
SANDSTONE: light grey to light grey white, very fine to medium, trace coarse grains, sub angular to sub rounded, moderately well sorted, firm to moderately hard, common loose grains, calcareous cement, occasional light grey white argillaceous matrix, occasional mica, occasional lithics (pale brown to orange, green grey to green), trace carbonaceous specks, poor visible porosity, poor to fair inferred porosity, no fluorescence.

SILTSTONE: brown grey, medium dark grey, firm to moderately hard, sub blocky to sub fissile, argillaceous, occasionally arenaceous in part, occasional carbonaceous specks, trace to occasional micro mica.

SANDSTONE: light grey, very fine to medium, trace coarse grains, sub angular to sub rounded, moderately well sorted, firm to moderately hard, predominantly as loose grains, calcareous cement in part, trace light grey white argillaceous matrix, trace mica, trace to occasional lithics (pale brown to orange, green grey to green), poor visible porosity, fair to good visual porosity, fair inferred porosity, no fluorescence.



Clematis Group



SILTSTONE: brown grey, medium dark grey, minor light grey, firm, sub blocky to sub fissile, argillaceous, minor arenaceous in part, occasional carbonaceous specks, micro mica.

SANDSTONE: light grey, clear to translucent quartz grains, very fine to medium, trace coarse grains, moderately sorted, sub angular to sub rounded, firm to moderately hard, occasional loose grains, siliceous cement, trace to locally common light grey white argillaceous matrix, occasional to common lithics (green grey to green, minor orange to pale brown), trace mica flakes, poor to very poor visual and inferred porosity, no fluorescence.

SANDSTONE: light grey, clear to translucent quartz grains, very fine to medium, occasional to common coarse grains, moderately sorted, sub angular to sub rounded, firm to moderately hard, occasional to common loose grains, siliceous cement, trace to occasional light grey white argillaceous matrix, occasional to common lithics (green grey to green, orange to pale brown), trace mica flakes, poor visible porosity, poor to fair inferred porosity, no fluorescence.

SILTSTONE: brown grey, medium dark grey, minor light grey, firm, sub blocky to sub fissile, argillaceous, minor arenaceous in part, rare carbonaceous specks, micro mica.

SANDSTONE: light grey, clear to translucent quartz grains, very fine to medium, trace coarse grains, moderately sorted, sub angular to sub rounded, firm, predominantly loose grains, siliceous cement, trace to occasional light grey white argillaceous matrix, trace to occasional lithics (green grey to grey, orange to pale brown), trace mica flakes, poor visible porosity, poor to fair inferred porosity, no fluorescence.

SILTSTONE: as above.

SANDSTONE: light grey, clear to translucent quartz grains, very fine to medium, trace coarse grains, moderately sorted, sub angular to sub rounded, firm to moderately hard, trace to occasional loose grains, siliceous cement, some hard aggregates with pa brown calcareous cement, trace to occasional light grey white argillaceous matrix, occasional to common lithics (green grey to green, orange to pale brown), trace mica flakes, poor visible porosity, poor inferred porosity, no fluorescence.

SILTSTONE: brown grey, medium dark grey, minor light grey, firm, sub blocky to sub fissile, argillaceous, minor arenaceous in part, rare carbonaceous specks, micro mica.

SANDSTONE: light grey, clear to translucent quartz grains, very fine to medium, trace to occasional coarse to very coarse grains, moderately sorted, sub angular to sub rounded, firm to moderately hard, occasional loose grains, siliceous cement, trace to occasional light grey white argillaceous matrix, occasional to common lithics (green grey to green, orange to pale brown), trace mica flakes, poor visible porosity, poor to fair inferred porosity, no fluorescence.

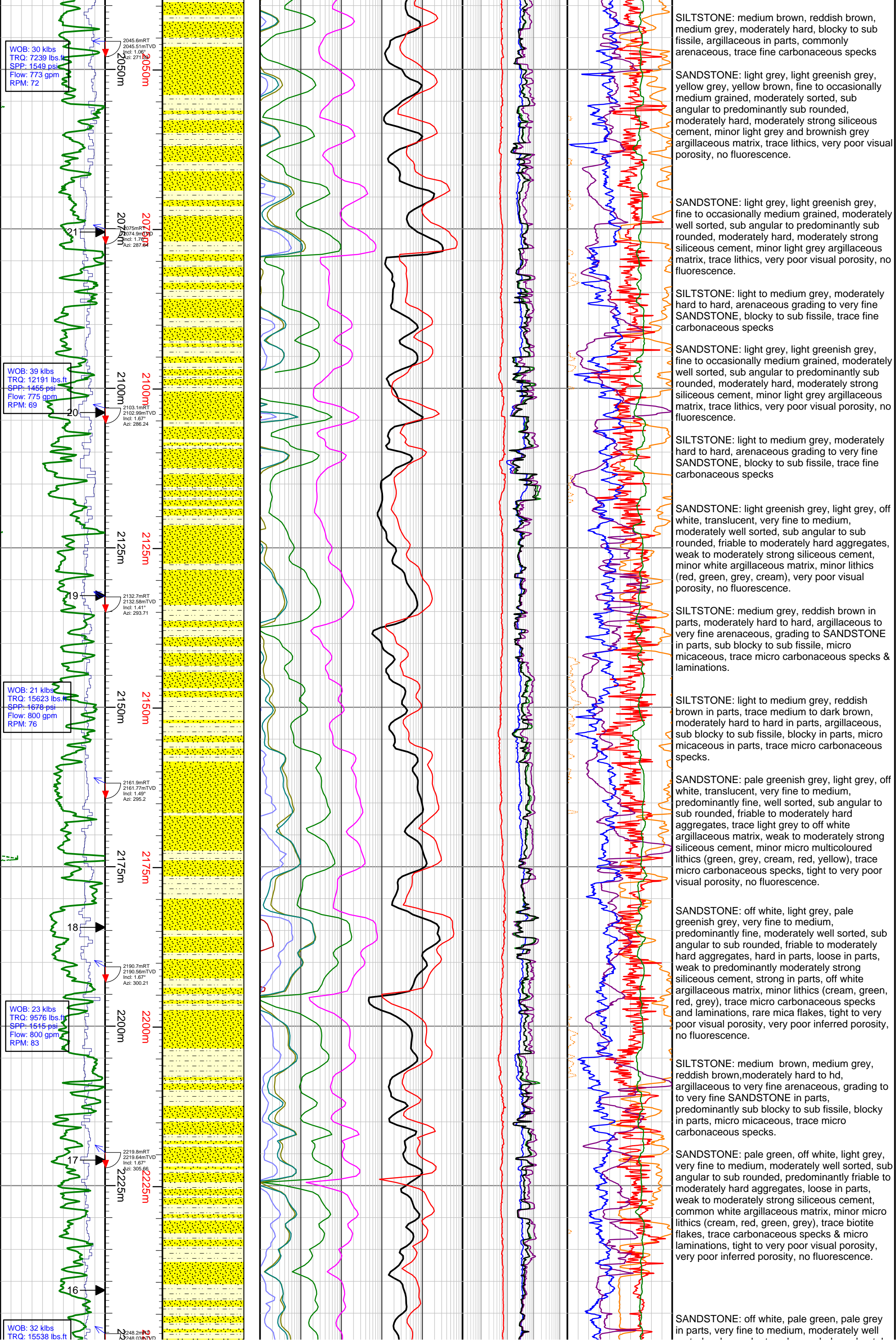
SANDSTONE: light grey, clear to translucent quartz grains, very fine to medium, trace coarse to very coarse grains, moderately sorted, sub angular to sub rounded, firm to moderately hard, occasional loose grains, siliceous cement, occasional light grey white argillaceous matrix, trace to occasional lithics (green grey to green, orange to pale brown), trace mica flakes, poor visible and inferred porosity, no fluorescence.

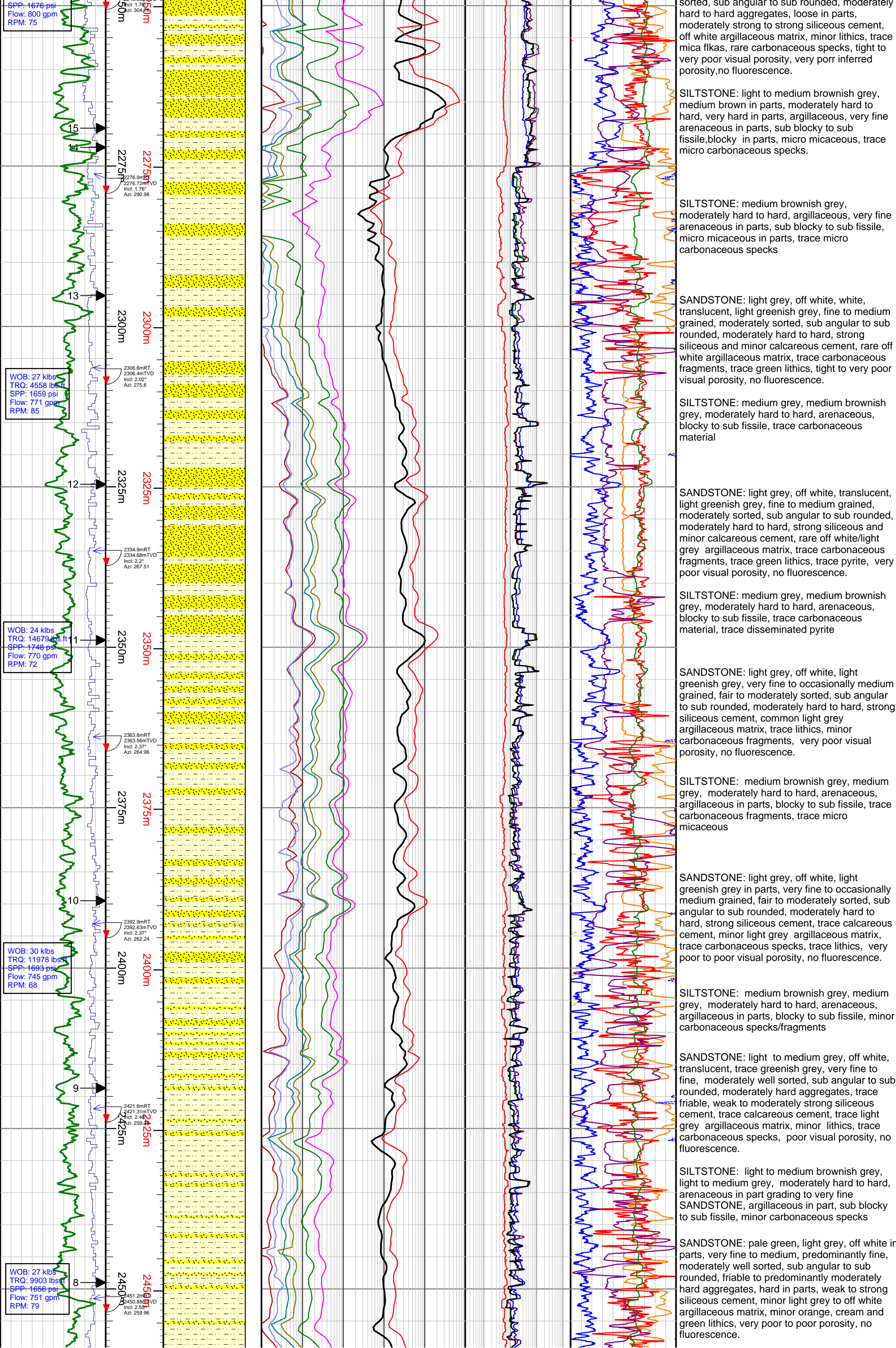
SILTSTONE: brown grey, firm, sub blocky to sub fissile, argillaceous, minor arenaceous in part, trace carbonaceous specks and micro mica.

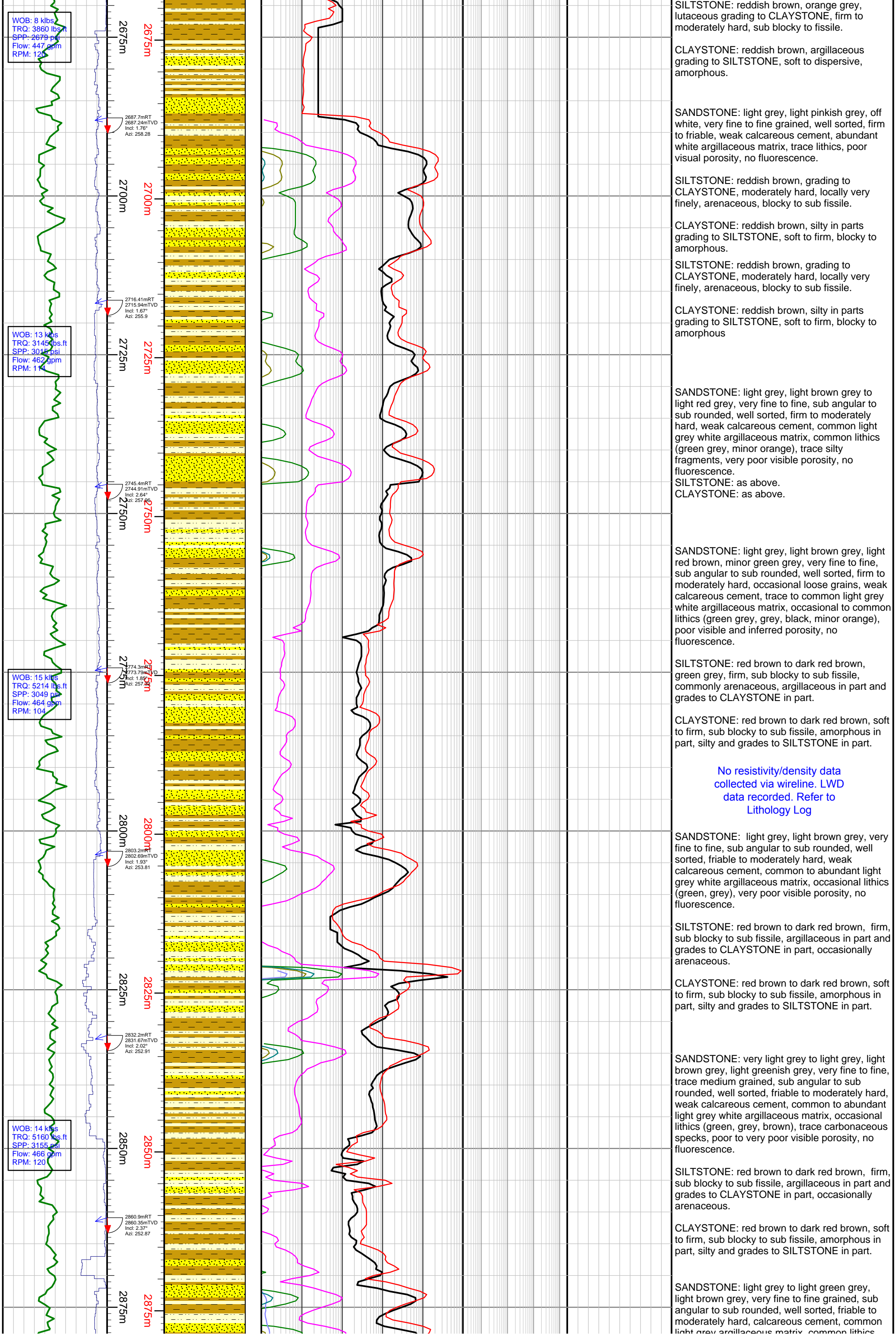
SANDSTONE: clear to translucent, pale grey, off white, very fine to occasionally very coarse, predominantly fine to medium, moderately sorted, sub angular to sub rounded, friable to moderately hard aggregates, loose in parts, weak to moderately strong siliceous cement, minor off white argillaceous matrix, minor pale orange, cream and grey lithics, trace carbonaceous specks and biotite flakes, poor visual and inferred porosity, no fluorescence.

SILTSTONE: light to predominantly medium grey, dark grey in parts, moderately hard, argillaceous, very fine arenaceous in parts, sub blocky to sub fissile, micro micaceous, minor micro carbonaceous specks.

SANDSTONE: off white, pale grey, very pale green in parts, very fine to predominantly medium, trace coarse to very coarse grains, moderately well sorted, sub angular to sub rounded, predominantly friable aggregates, loose in parts, weak siliceous cement, common white argillaceous matrix, common green, grey, red and cream lithics, common biotite flakes, trace carbonaceous specks, poor visual and inferred porosity, no fluorescence.







Intra-Rewan Claystone

WOB: 13 kbs
TRQ: 546 lbs.ft
SPP: 3308 psi
Flow: 489 gpm
RPM: 160

WOB: 7 kbs
TRQ: 7326 lbs.ft
SPP: 2413 psi
Flow: 490 gpm
RPM: 120

2889.9mRT
2889.32mTVDD
Incl: 2.55°
Azi: 256.32

2918.8mRT
2918.19mTVDD
Incl: 3.08°
Azi: 259.21

2947.7mRT
2947.04mTVDD
Incl: 3.17°
Azi: 260.01

2976.5mRT
2975.8mTVDD
Incl: 3.17°
Azi: 260.01

3005.5mRT
3004.75mTVDD
Incl: 3.52°
Azi: 262.02

3034.4mRT
3033.6mTVDD
Incl: 3.43°
Azi: 260.75

3063.3mRT
3062.44mTVDD
Incl: 3.43°
Azi: 260.6

SILTSTONE: light grey argillaceous matrix, common lithics (greenish grey, minor grey and black), very poor visual porosity, no fluorescence.

SILTSTONE: red brown to dark red brown, rare grey to green grey, firm to moderately hard, sub blocky to fissile in part, argillaceous and grades to CLAYSTONE, occasionally arenaceous in part.

CLAYSTONE: red brown to dark red brown, soft to firm, sub blocky to fissile, silty and grades to SILTSTONE in part.

SANDSTONE: light grey to light green grey, light brown grey, very fine to fine grained, sub angular to sub rounded, well sorted, firm to moderately hard, rare loose grains, calcareous cement, occasional light grey argillaceous matrix, occasional to common lithics (greenish grey, minor grey, black and orange), trace white crystalline calcite fragments, very rare pyrite, very poor visual porosity, no fluorescence.

SILTSTONE: red brown to dark red brown, occasional grey to green grey, firm to moderately hard, sub blocky to fissile in part, argillaceous and grades to CLAYSTONE, occasionally arenaceous in part.

CLAYSTONE: red brown to dark red brown, soft to firm, sub blocky to fissile, silty and grades to SILTSTONE in part.

No resistivity/density data collected via wireline. LWD data recorded. Refer to Lithology Log

SANDSTONE: light grey to light green grey, light brown grey, very fine to fine grain, sub angular to sub rounded, well sorted, firm to moderately hard, trace loose grain, weak calcareous cement, occasional light grey argillaceous matrix, occasional grey green and orange lithics, very poor visual porosity, no fluorescence.

SILTSTONE: reddish brown to dark reddish brown, trace light greenish grey to greenish grey, firm to moderately hard, sub blocky to fissile, lutaceous grading to CLAYSTONE, minor arenaceous and grading to very fine SANDSTONE in part.

CLAYSTONE: reddish brown to dark reddish brown, firm to moderately hard, sub blocky to fissile, rarely blocky, silty grading to SILTSTONE in parts.

SANDSTONE: light grey to light green grey, light brown grey, very fine to fine grained, rare medium grains, sub angular to sub rounded, well sorted, firm to moderately hard, trace loose grains, calcareous cement, common light grey argillaceous matrix, occasional grey green and orange lithics, very poor visual porosity, no fluorescence.

SILTSTONE: reddish brown to dark reddish brown, trace light greenish grey to grey, firm to moderately hard, sub blocky to fissile, argillaceous and commonly grades to CLAYSTONE, some arenaceous in part. .
CLAYSTONE: reddish brown to dark reddish brown, firm to moderately hard, sub blocky to fissile, silty and grades to SILTSTONE in parts.

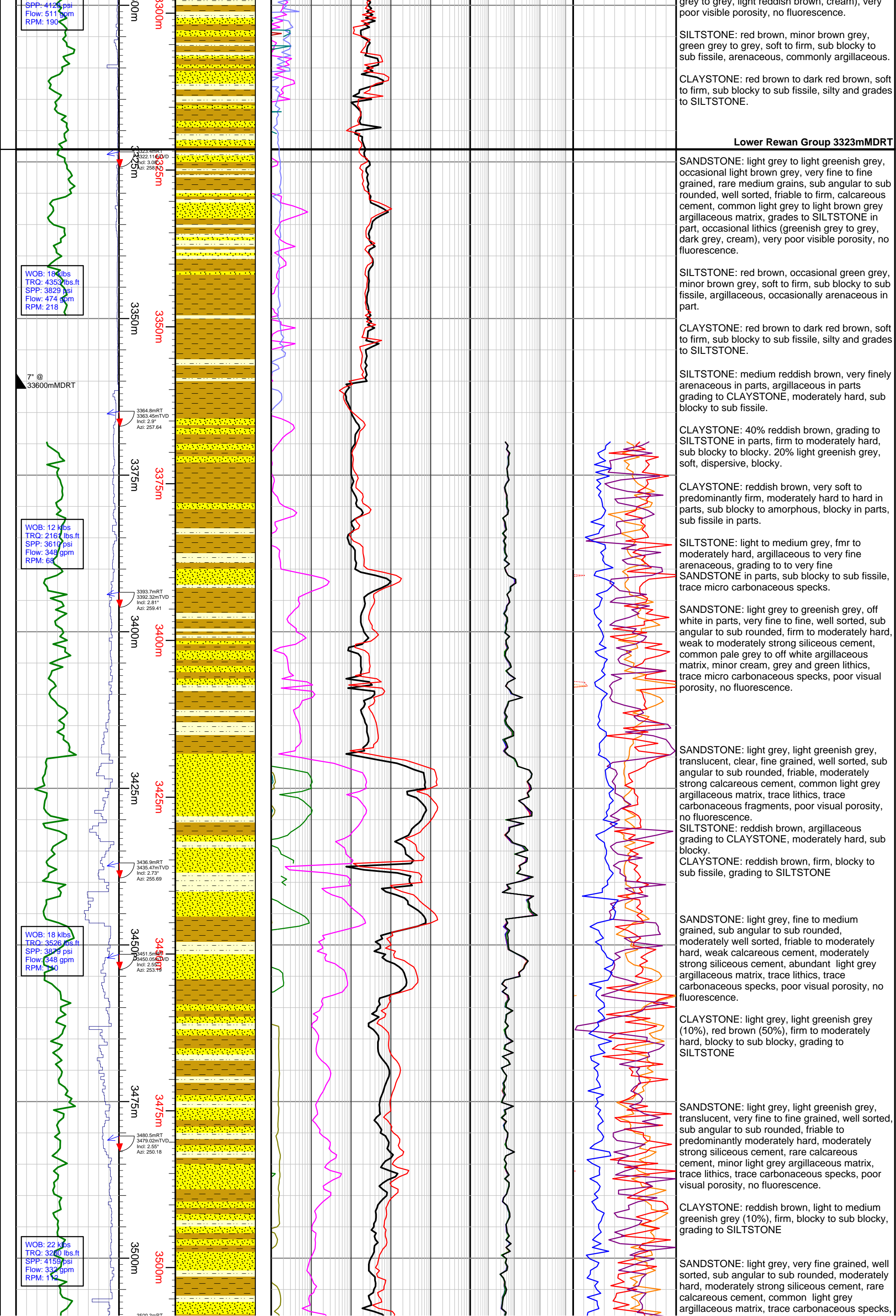
SILTSTONE: moderate reddish brown to dark reddish brown, firm, sub blocky to sub fissile, occasionally fissile, arenaceous in parts grading to very fine SANDSTONE, lutaceous grading to CLAYSTONE in parts.

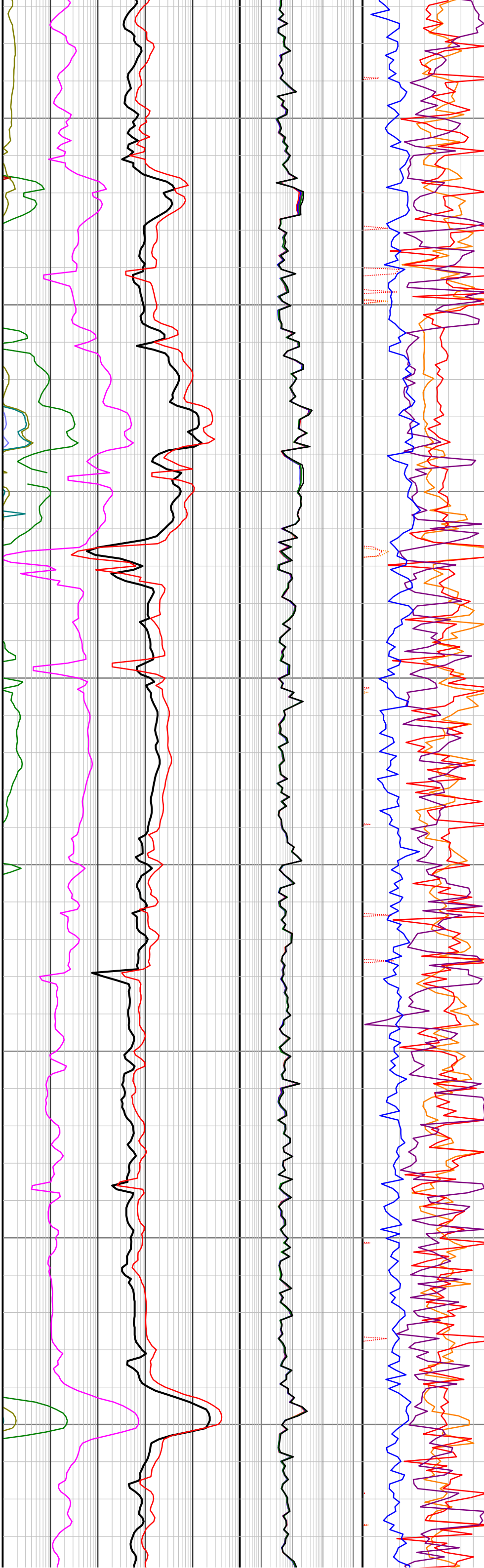
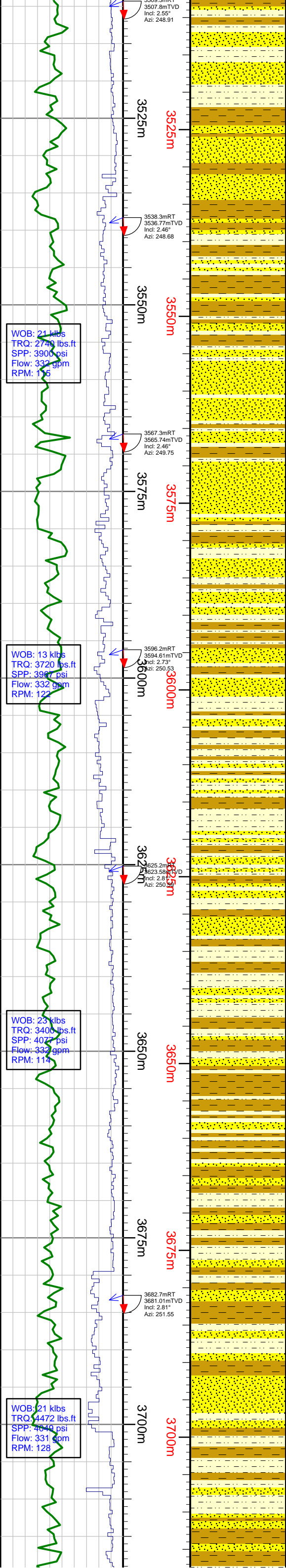
SILTSTONE: light reddish brown to dark reddish brown, soft to firm, occasionally moderately hard, sub blocky to sub fissile, grades to very fine grained SANDSTONE in part, grades to CLAYSTONE.

CLAYSTONE: light reddish brown to moderately reddish brown, soft to firm, occasionally dispersive, sub blocky to amorphous, predominantly sub fissile, grades to SILTSTONE in part.

SANDSTONE: light brown grey, light grey, very fine to fine, sub angular to sub rounded, well sorted, firm to moderately hard, calcareous cement, occasional light brown grey argillaceous / silty matrix, occasional lithics (green grey, brown grey, cream, dark grey), very poor visible porosity, no fluorescence.

SILTSTONE: red brown to dark red brown, some brown grey, firm to moderately hard, sub





very poor visual porosity, no fluorescence.

SILTSTONE: light to medium grey, reddish brown, moderately hard, blocky to sub blocky, grading to CLAYSTONE in parts, occasionally arenaceous grading to very fine SANDSTONE.

SANDSTONE: off white, very light grey, very fine to fine grained, well sorted, sub angular to sub rounded, moderately hard, moderately strong siliceous cement, minor calcareous cement, abundant light grey to off white argillaceous matrix, very poor visual porosity, no fluorescence

SILTSTONE: light to medium grey, moderately hard, blocky to sub fissile, arenaceous grading to very fine SANDSTONE, trace fine carbonaceous specks.

CLAYSTONE: light to medium grey, light greenish grey, trace red brown, firm to moderately hard, sub blocky to sub fissile, grading to SILTSTONE in parts

SANDSTONE: off white, very light grey, very fine to medium, moderately sorted, sub angular to sub rounded, moderately hard, moderately strong siliceous cement, minor calcareous cement, minor light grey to off white argillaceous matrix, trace carbonaceous specks, trace lithics, very poor visual porosity, no fluorescence.

SANDSTONE: light grey, off white, pale green in parts, very fine to medium, predominantly fine, occasional coarse to very coarse grains, moderately well sorted, sub angular to sub rounded, friable to moderately hard aggregates, common loose grains, weak to moderately strong siliceous cement, weak to moderately strong calcareous cement in parts, common off white argillaceous matrix, common cream, grey and green lithics, trace carbonaceous specks, very poor to poor visual and inferred porosity, no fluorescence.

SILTSTONE: light to medium grey, light green, dark grey in parts, moderately hard, sub blocky to sub fissile, predominantly argillaceous, grading to CLAYSTONE in parts, very fine arenaceous in parts, occasionally grading to SANDSTONE.

CLAYSTONE: reddish brown, light grey in parts, moderately hard, sub blocky to sub fissile, grading to SILTSTONE in parts.

SANDSTONE: light grey to light greenish grey, off white in parts, very fine to fine, well sorted, sub angular to sub rounded, friable to predominantly moderately hard aggregates, weak to predominantly moderately strong siliceous cement, common light grey to off white argillaceous matrix, grading to to very fine arenaceous SILTSTONE in parts, minor micro cream, grey and green lithics, trace micro carbonaceous specks, very poor to poor porosity, no fluorescence.

SILTSTONE: light to medium grey, light green, moderately hard to hard in parts, sub blocky to sub fissile, predominantly argillaceous, grading to to CLAYSTONE in parts, very fine arenaceous in parts, occasionally grading to very fine SANDSTONE.

CLAYSTONE: predominantly reddish brown, light green in parts, moderately hard, sub blocky to sub fissile, blocky in parts, grading to to SILTSTONE in parts.

SILTSTONE: light grey, light green, moderately hard, sub blocky to sub fissile, grading to to CLAYSTONE in parts.

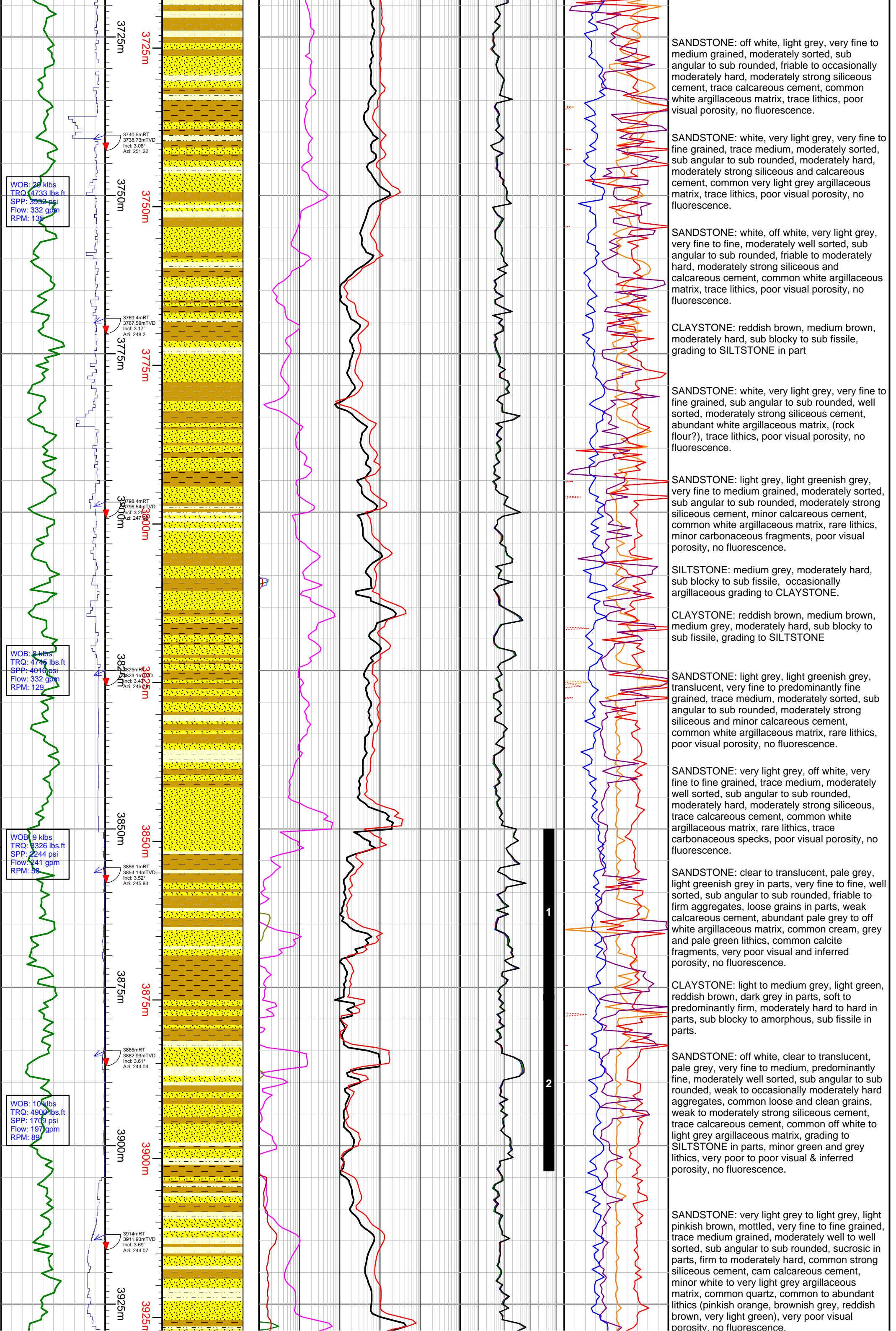
CLAYSTONE: reddish brown, light green in parts, light grey in parts, soft to moderately hard, hard in parts, sub blocky to blocky, sub fissile in parts, occasionally amorphous, grading to to SILTSTONE in parts.

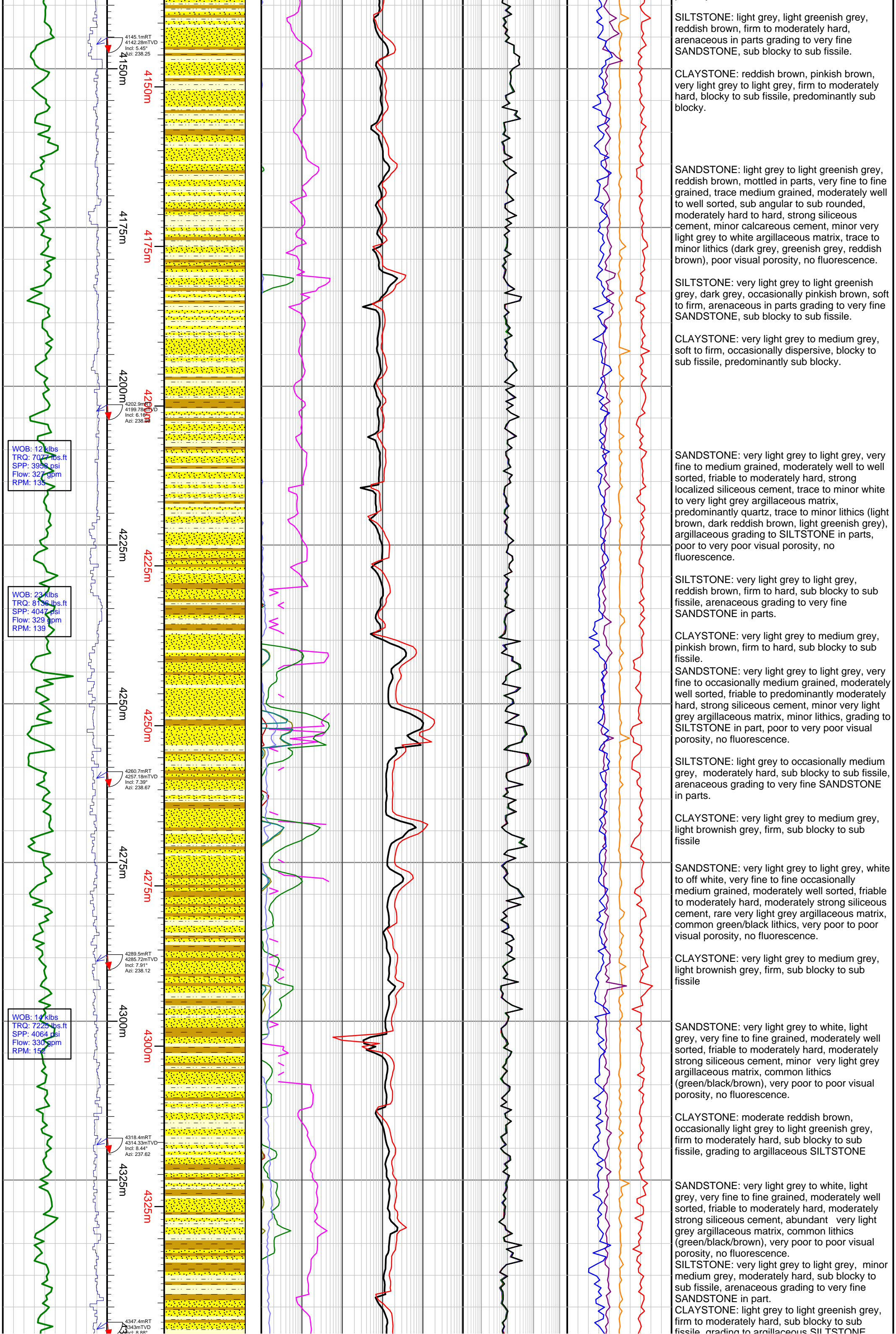
SANDSTONE: light grey to greenish grey, reddish brown in parts, very fine to fine, well sorted, sub angular to sub rounded, moderately hard, moderately strong siliceous cement, minor light grey argillaceous matrix, common green, grey, cream and red lithics, rare carbonaceous specks and biotite flakes, very poor visual porosity, no fluorescence.

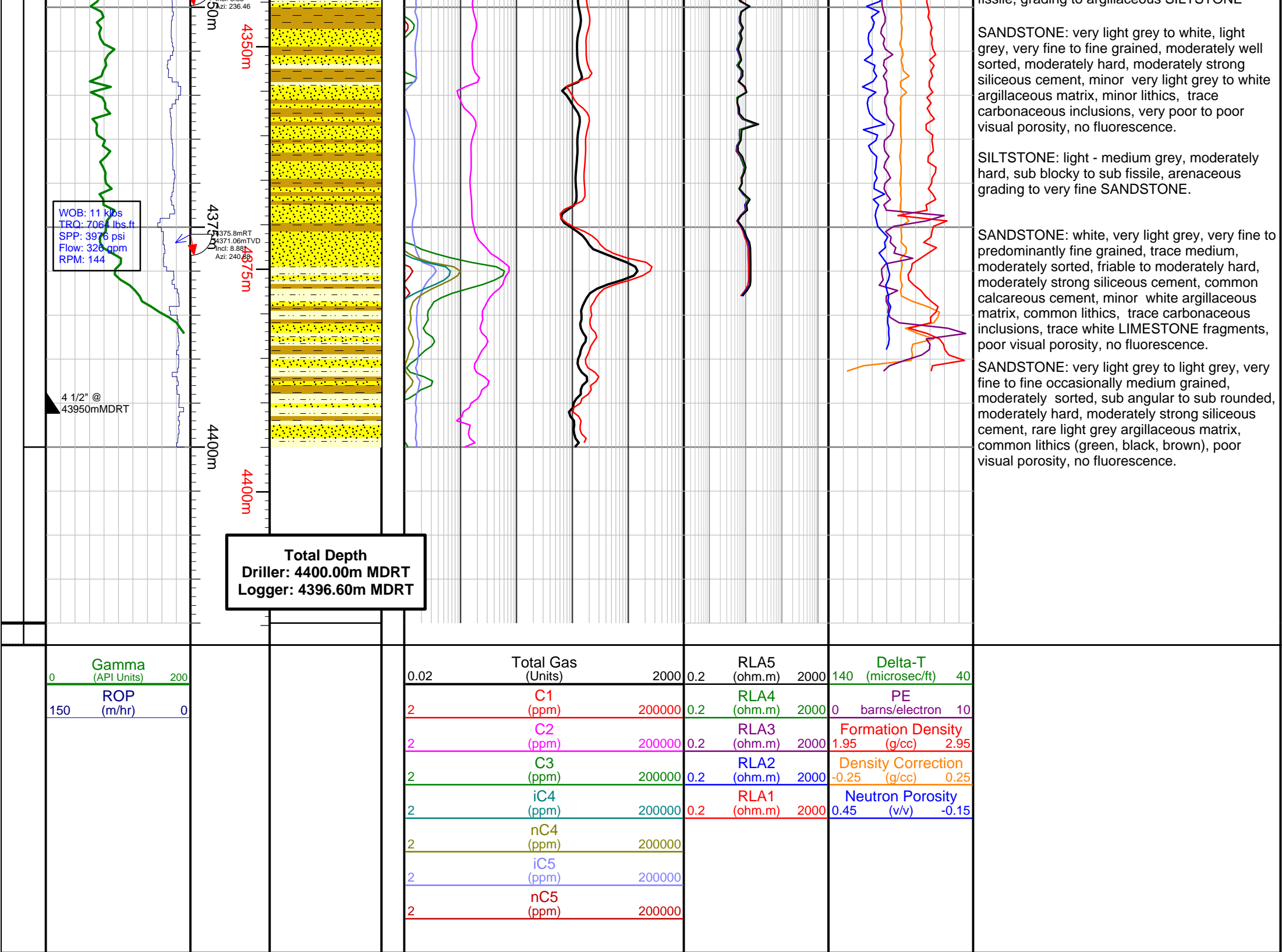
SILTSTONE: light grey, light green, moderately hard, hard in parts, sub blocky to sub fissile, blocky in parts.

CLAYSTONE: predominantly reddish brown, light grey in parts, moderately hard to hard, very hard in parts, sub blocky to sub fissile, blocky in parts

Lower Rewan Group







		carbonaceous specks, poor visual porosity, no fluorescence.
2075.50	Good	SANDSTONE: pale greenish grey, light grey, very fine to fine, well sorted, sub angular to sub rounded, friable to predominantly moderately hard, weak to predominantly moderately strong siliceous cement, trace pale grey argillaceous matrix, minor green, grey, red and cream lithics, rare carbonaceous specks, very poor to poor visual porosity, no fluorescence.
2010.70	Good	SANDSTONE: pale to translucent brown, very fine to fine, well sorted, sub angular to sub rounded, moderately hard to hard, moderately strong to strong siliceous cement, trace brown silty to argillaceous matrix, minor green, grey, brown and cream lithics, rare carbonaceous specks, very poor to poor visual porosity, no fluorescence.
1921.50	Good	SANDSTONE: light medium green, very fine to predominantly fine, occasional medium grain, moderately well sorted, sub angular to sub rounded, angular in parts, moderately hard to hard, moderately strong to strong siliceous cement, trace green silty matrix, trace brown and cream lithics, rare carbonaceous specks, very poor to poor visual porosity, no fluorescence.
1884.90	Good	SANDSTONE: light grey, off white, very fine to fine, well sorted, sub angular to sub rounded, friable to moderately hard, weak to predominately moderately strong siliceous cement, minor light grey to off white argillaceous matrix, common cream, green and light orange lithics, minor micro carbonaceous specks, trace biotite flakes, very poor to poor visual porosity, no fluorescence.
1819.00	Good	SANDSTONE: off white, clear to translucent, very fine to predominantly medium, moderately well sorted, sub angular to sub rounded, friable to moderately hard, weak to predominantly moderately strong calcareous cement, weak siliceous cement in parts, common off white argillaceous matrix, minor pale green, grey and occasional brown lithics, trace micro carbonaceous specks, poor visual porosity, no fluorescence.
1772.40	Good	SANDSTONE: off white, clear to translucent, very fine to predominantly medium, moderately well sorted, sub angular to sub rounded, friable to moderately hard, weak to moderately strong siliceous cement, common off white argillaceous matrix, minor pale green, grey and occasional brown lithics, trace micro carbonaceous specks, trace biotite flakes, poor visual porosity, no fluorescence.
1734.90	Good	SANDSTONE: off white, clear to translucent, very fine to medium, moderately well sorted, sub angular to sub rounded, friable to moderately hard, weak to moderately strong siliceous cement, weak calcareous cement in parts, common off white argillaceous matrix, minor pale green, grey and occasional brown lithics, trace micro carbonaceous specks, poor visual porosity, no fluorescence.
1671.00	Good	SANDSTONE: off white, clear to translucent, pale orange, very fine to medium, moderately well sorted, sub angular to sub rounded, friable to moderately hard, weak to moderately strong siliceous cement, weak calcareous cement in parts, common off white argillaceous matrix, trace pale green and grey lithics, trace mica flakes, poor visual porosity, no fluorescence.
1577.40	Good	SANDSTONE: off white, clear to translucent, pale grey in parts, very fine to medium, moderately well sorted, sub angular to sub rounded, predominantly friable to moderately hard, weak to moderately strong siliceous cement, common off white argillaceous matrix, trace pale green and rare orange lithics, trace biotite flakes, poor visual porosity, no fluorescence.
1548.20	Good	SANDSTONE: light greenish grey, light grey to off white, clear to translucent in parts, very fine to medium, moderately well sorted, sub angular to sub rounded, friable to moderately hard, weak to moderately strong siliceous cement, minor off white argillaceous matrix, minor pale green lithics, minor biotite flakes, poor visual porosity, no fluorescence.
1528.80	Good	SANDSTONE: off white, pale orange, clear to translucent in parts, very fine to medium, moderately well sorted, sub angular to sub rounded, friable to moderately hard, weak to moderately strong siliceous cement, common off white argillaceous matrix, trace pale green and grey lithics, rare carbonaceous specks, poor visual porosity, no fluorescence.
1402.10	Good	SANDSTONE: off white, clear to translucent, very fine to fine, well sorted, sub angular to sub rounded, predominantly friable to moderately hard in parts, predominantly weak to moderately strong siliceous cement, common off white argillaceous matrix, trace pale green and grey lithics, poor visual porosity, no fluorescence.

Conventional Core					
No	Interval (m MDRT)	Cut (m)	Recovered (m)	Recovery (%)	Formation
1	3850.00 - 3877.00	27.00	26.19	97.0	Lower Rewan Group
2	3877.00 - 3904.00	27.00	27.20	101.0	Lower Rewan Group

MWD Summary					
Hole Size (inch)	Tool	Run	Depth Interval (mMDRT)	Date	Max Temp (°C)
17 1/2"	AWR-ABS-HDS1L	1	67 - 1018	30/01/2015 to 02/02/2015	64
12 1/4"	AWR-DPM	2	1018 - 2647	07/02/2015 to 14/02/2015	70
8 1/2"	AWR-iDNSC-SonicPacer-QPM-HDS1-L-ABS	3	2647 - 2658	22-02-2015	60
8 1/2"	AWR-iDNSC-SonicPacer-QPM-HDS1-L-ABS	4	2656 - 3002	23-02-2015 to 26-02-2015	82
8 1/2"	AWR-iDNSC-ABS-DPM-HDS1- Sonic Pacer	5	3002 - 3362.5	28-02-2015 to 06-03-2015	92.6
6 1/8"	AWR-iDNSC-ABS-DPM-HDS1	6	3362.5 - 3850	11-03-2015 to 14-03-2015	108.6
6 1/8"	AWR-iDNSC-ABS-DPM-HDS1	7	3850 - 4387	19-03-2015 to 21-03-2015	123.0
6 1/8"	AWR-iDNSC-ABS-DPM-HDS1	8	3850 - 4385	24-03-2015 to 26-03-2015	123.0