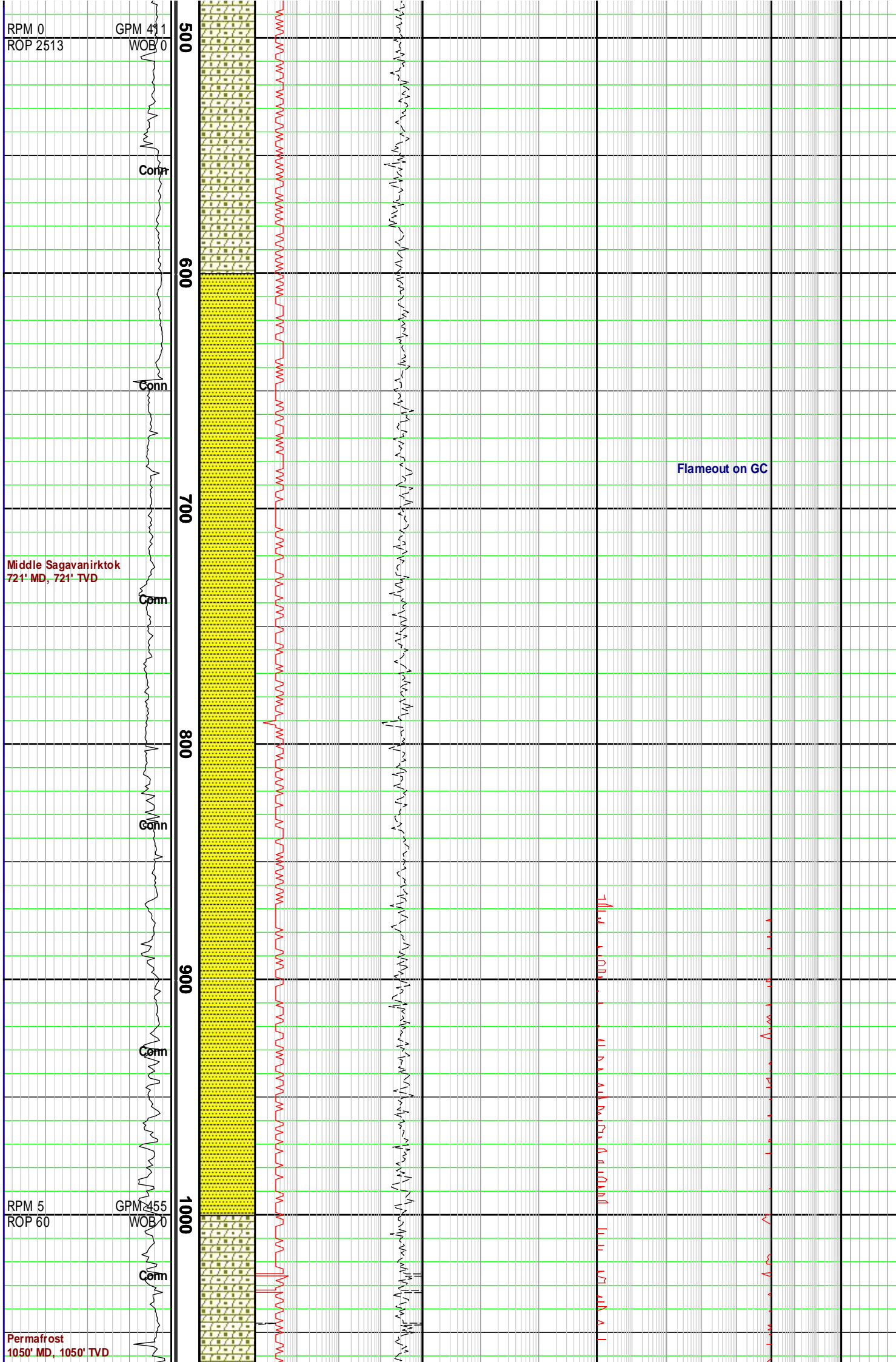
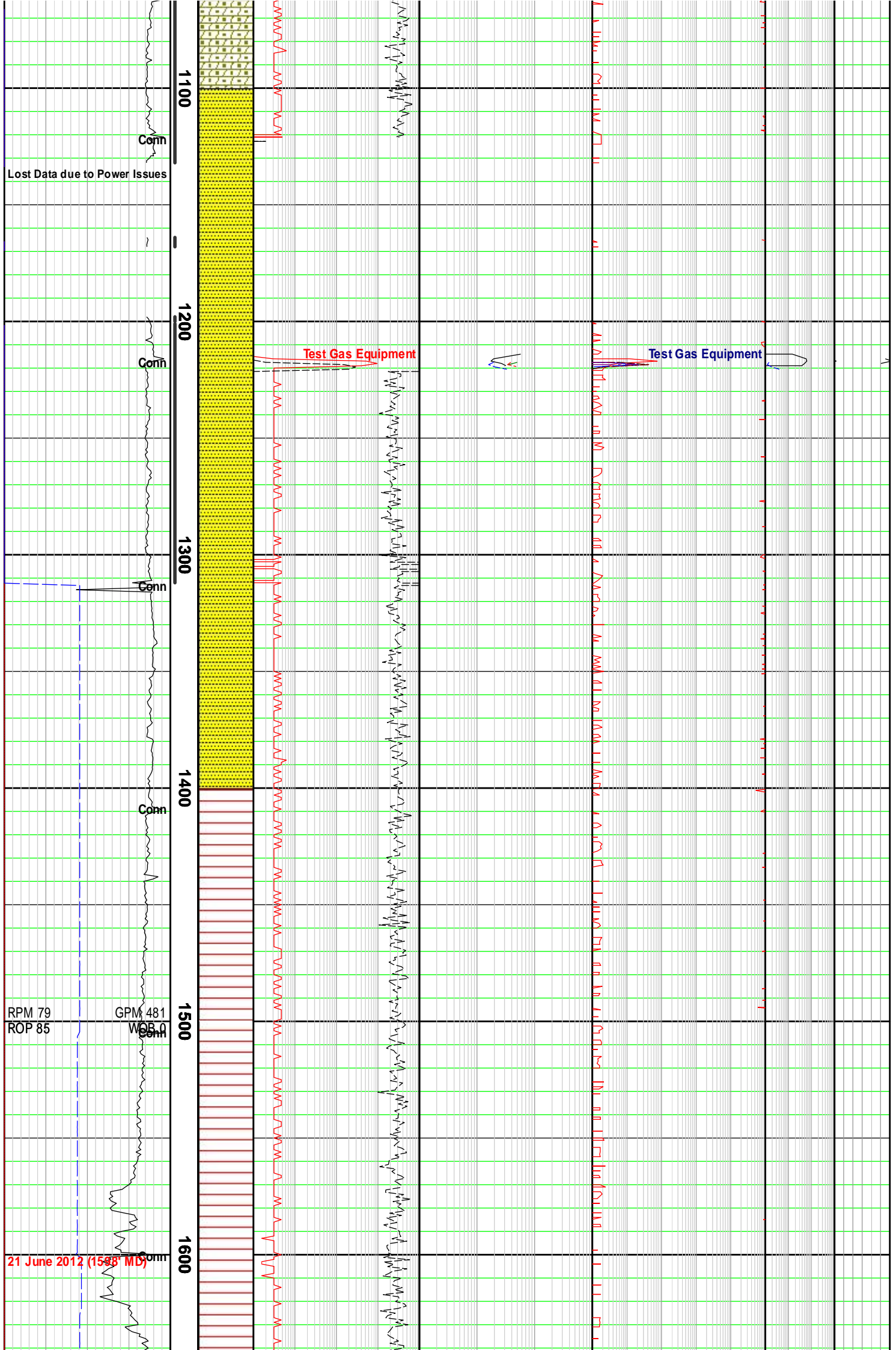


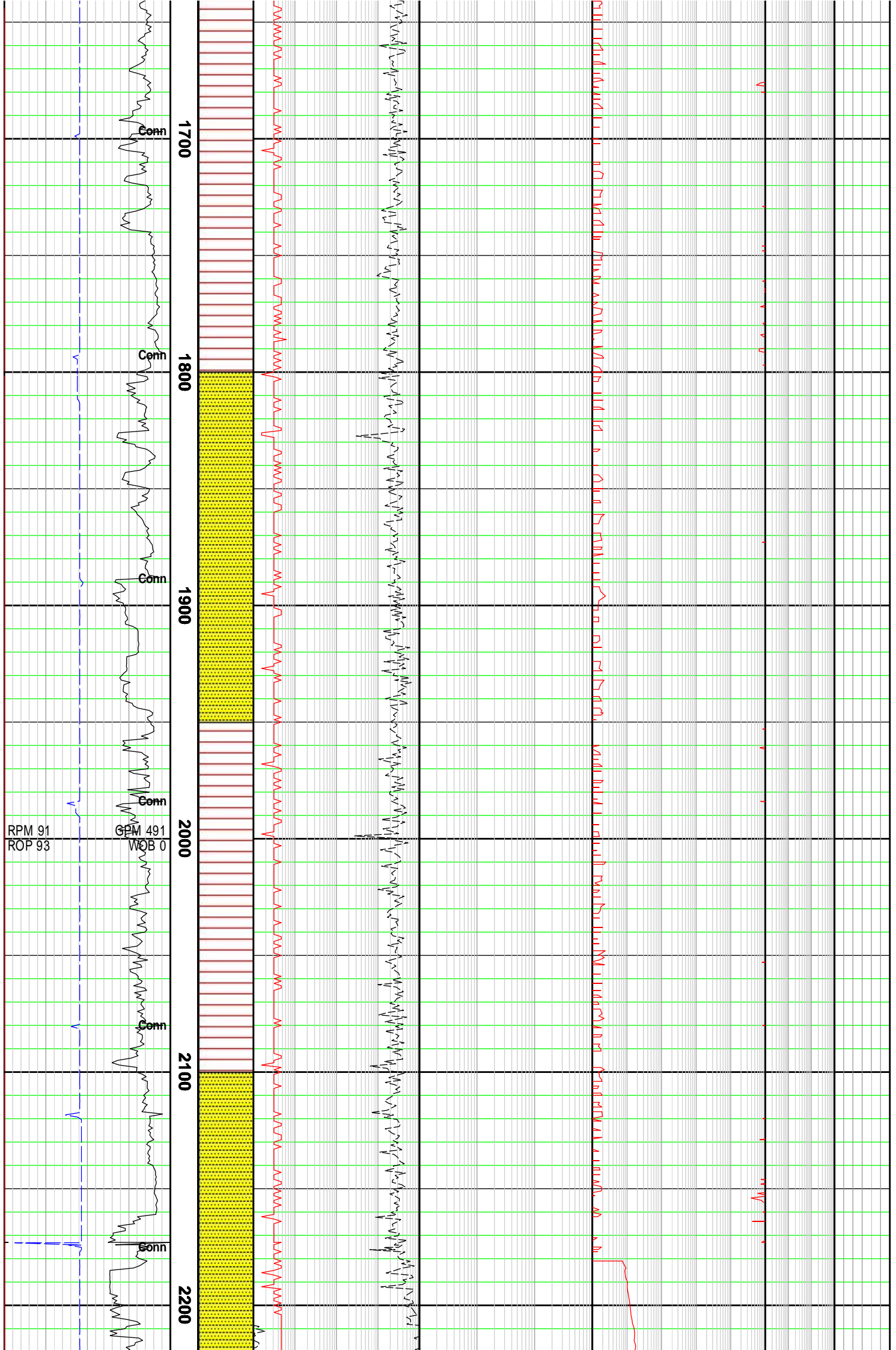
HALLIBURTON Sperry Drilling									
Surface Data Logging 2" MD Gas Ratio Log									
1 : 600									
Country : USA		Field : Exploration		Location : Lat: 69° 59' 26.11" North Long: 148° 40' 40.99" West		Well : Alcor 1		Company : Great Bear Petroleum, LLC	
Permanent Datum : Mean Sea Level		Log Measured From : Drill Floor		Drilling Measured From : Drill Floor		Company : Great Bear Petroleum, LLC		Rig : Nabors 105E	
Elevation : 0.00 ft		186.00 ft Above Permanent Datum		MD LOG		Well : Alcor 1		Field : Exploration	
Unit No. : 117		Job No. : AK-AM-0009285348		Pilot Type : Final		Country : USA		API Number : 50-223-20026-00-00	
Total Depth MD : 10,812.00 ft		TVD : 10,802.05 ft		Plot Date : 28-Aug-12		Latitude : 69° 59' 26.11" North		Longitude : 148° 40' 40.99" West	
Date Logged : 16-Jun-12		To 09-Aug-12		Run No. : 1300		UTM Easting = 665,672.48 ft		UTM Northing = 5,847,838.30 ft	
Spud Date : 16-Jun-12		Borehole Record (MD)		Run No. : 1400		Other Services		KB 0.00 ft	
Run No. : 100		Size : 12.250 in		From : 102.00 ft		To : 2,510.00 ft		To : 10,812.00 ft	
Run No. : 200		Size : 8.500 in		From : 2,510.00 ft		To : 6,364.00 ft		To : 10,812.00 ft	
Run No. : 300		Size : 8.500 in		From : 6,364.00 ft		To : 8,320.00 ft		To : 10,812.00 ft	
Run No. : 400		Size : 8.125 in		From : 8,320.00 ft		To : 8,348.00 ft		To : 10,812.00 ft	
Run No. : 500		Size : 6.125 in		From : 8,348.00 ft		To : 8,640.00 ft		To : 10,812.00 ft	
Run No. : 600		Size : 6.125 in		From : 8,640.00 ft		To : 8,676.00 ft		To : 10,812.00 ft	
Run No. : 700		Size : 6.125 in		From : 8,676.00 ft		To : 10,015.00 ft		To : 10,812.00 ft	
Run No. : 800		Size : 6.125 in		From : 10,015.00 ft		To : 10,103.00 ft		To : 10,812.00 ft	
Run No. : 900		Size : 6.125 in		From : 10,103.00 ft		To : 10,574.00 ft		To : 10,812.00 ft	
Run No. : 1000		Size : 6.125 in		From : 10,574.00 ft		To : 10,604.00 ft		To : 10,812.00 ft	
Run No. : 1100		Size : 6.125 in		From : 10,604.00 ft		To : 10,604.00 ft		To : 10,812.00 ft	
Run No. : 1200		Size : 6.125 in		From : 10,604.00 ft		To : 10,662.00 ft		To : 10,812.00 ft	

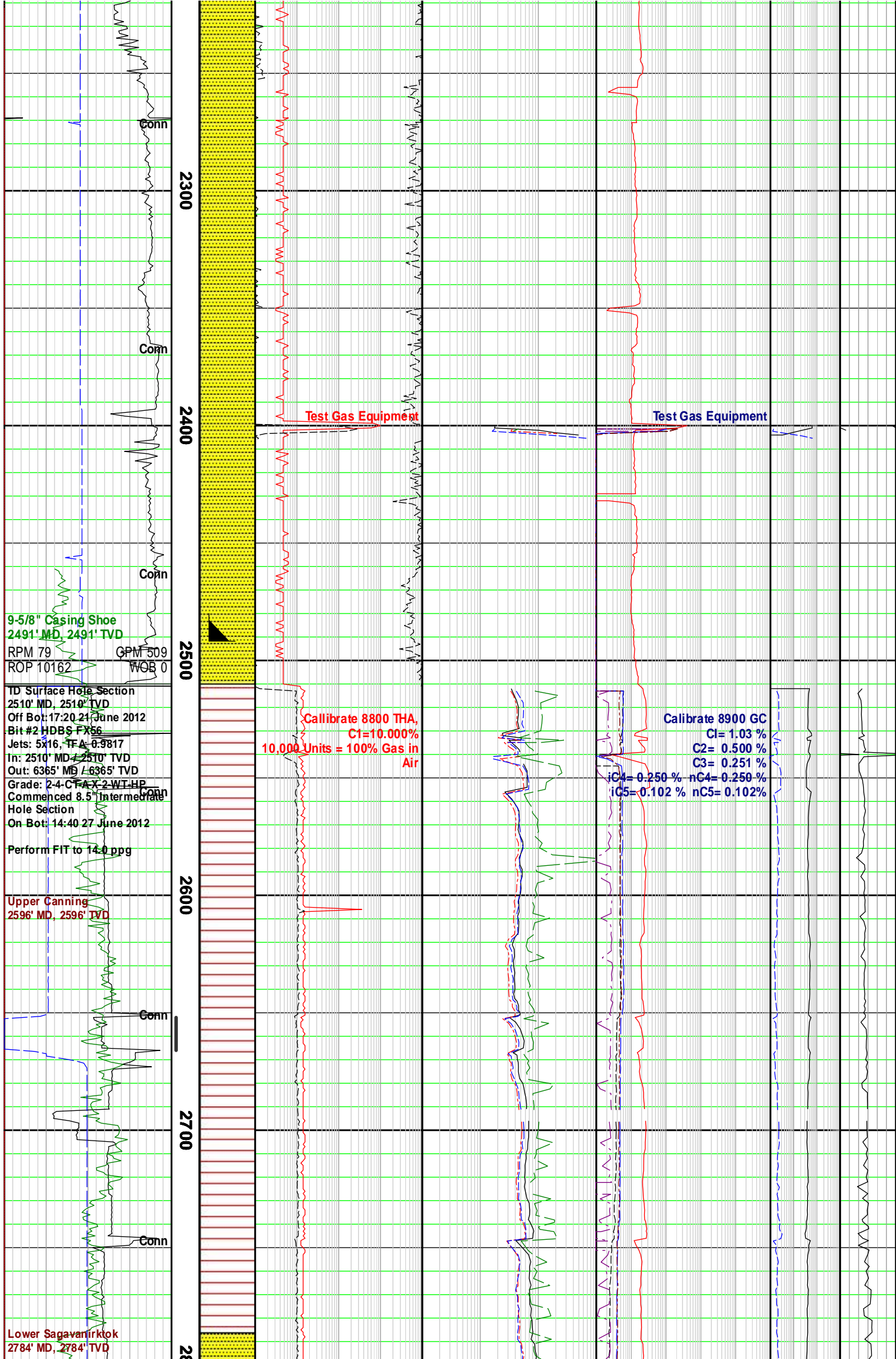
LEGEND					
Abbreviations and Symbols			Lithology Symbols		
Drilling Data		Mud Data			
BG	Background Gas	Cl-	Chloride Ion Conc	Rm	Mud Resistivity
BHT	Bottomhole Temp	FC	Filter Cake	Rmf	Filtrate Resistivity
C	Carbide Test	FL	Filtrate Loss	S	Solids Content
CB	Core Bit	G	Gels	Vis	Funnel Viscosity
CG	Connection Gas	pH	Hydrogen Ion Content	MW	Mud Weight
CKF	Check For Flow	PV	Plastic Viscosity	YP	Yield Point
CO	Circulate Out				
DB	Diamond Bit				
DC	Depth Correction				
DS	Direction Survey				
DST	Drillstem Test				
FLT	Flowline Temp.				
LAT	Logged After Trip				
NB	New Bit				
NR	No Returns				
PDC	Polycrystalline Diamond Compound Bit				
PR	Partial Returns				
RPM	Revs Per Minute				
RRB	Rerun Bit				
STG	Short Trip Gas				
TB	Turbo Drill				
TG	Trip Gas				
U	Gas Units				
WOB	Weight On Bit				

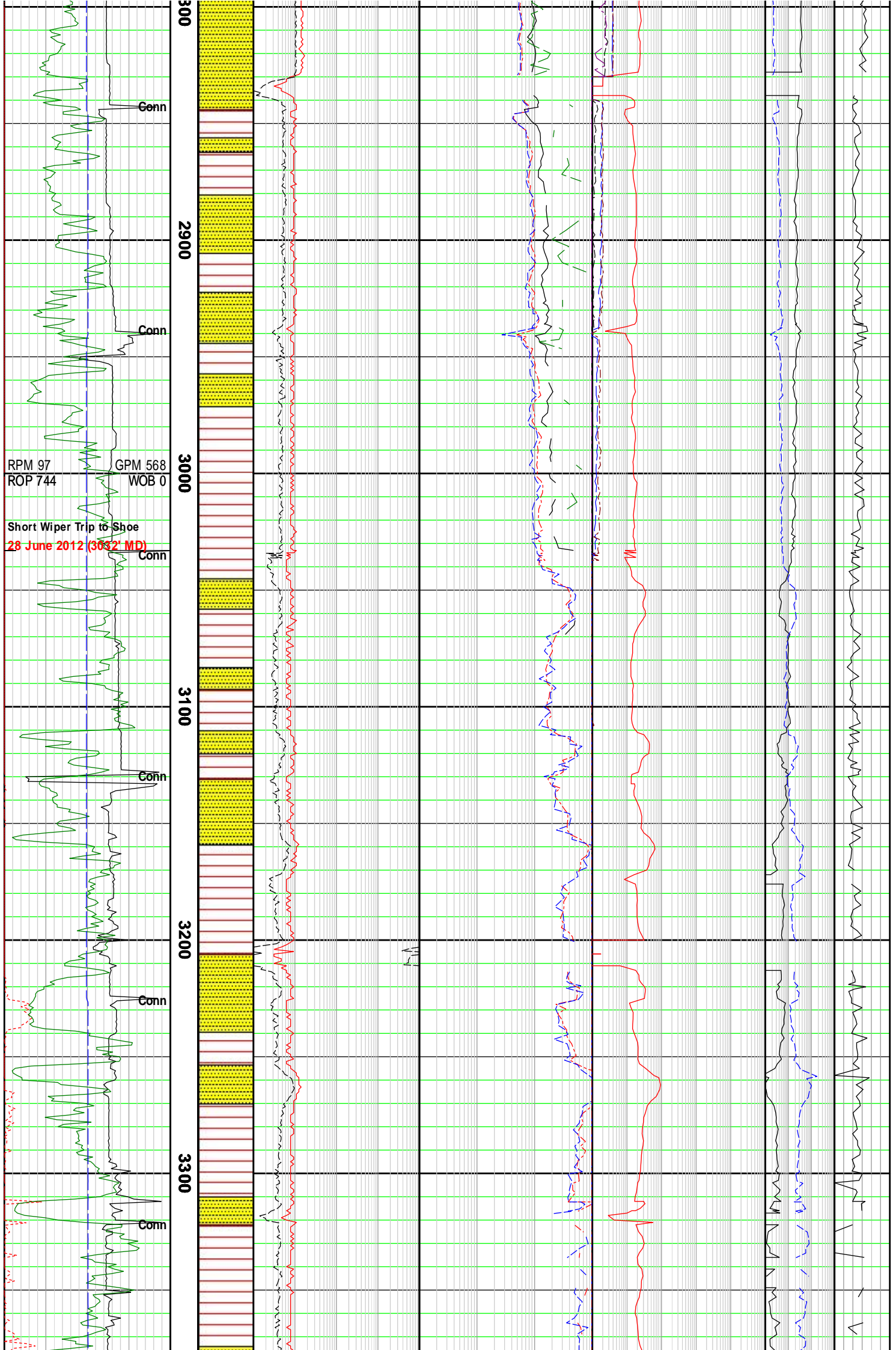
ROP ft/hr			Depth MD	Slide	Interpretative Lithology	Gas in Air 10,000 units = 100%			Pixler Plot Hydrocarbon Ratios Gas in Air			Gas Chromatograph Gas in Air Analysis ppm					Wetness (GWR)		OCQ Character
Gamma api						Max Gas units			C1/C2			Methane					1		
WOB kbs						Avg Gas units			C1/C3			Ethane					1K		
RPM rpm						Resistivity ohmm			C1/C4			Propane					Balance (LHR)		
Density g/cc									C1/C5			Total Butane					1		
												Total Pentane					1K		
500		0										10	100	1K	10K	100K1M			0
0		150																	3
0		40																	
0		200																	
Conn																			
Drill Floor 186' Above Permanent Datum																			
Commenced Rig Up 15 June 2012 SDL Services Online 19 June 2012																			
16" Conductor Casing 80' MD, 80' TVD																			
Commenced 12.25" Surface Hole Section On Bot: 11:00 19 June 2012																			
Bit #1 HDBS QHC1GRC Jets: 3x18, 1x14, TFA: 0.8958 In: 96' MD / 96' TVD Out: 2510' MD / 2510' TVD Grade: 8-8-LT-A-E-I-BT-TD																			
Directional Only Tools for Surface Hole Section																			
Conn																			
Gubik 448' MD, 448' TVD																			
Conn																			
Conn																			
Conn																			
Conn																			
20 June 2012 (471' MD)																			

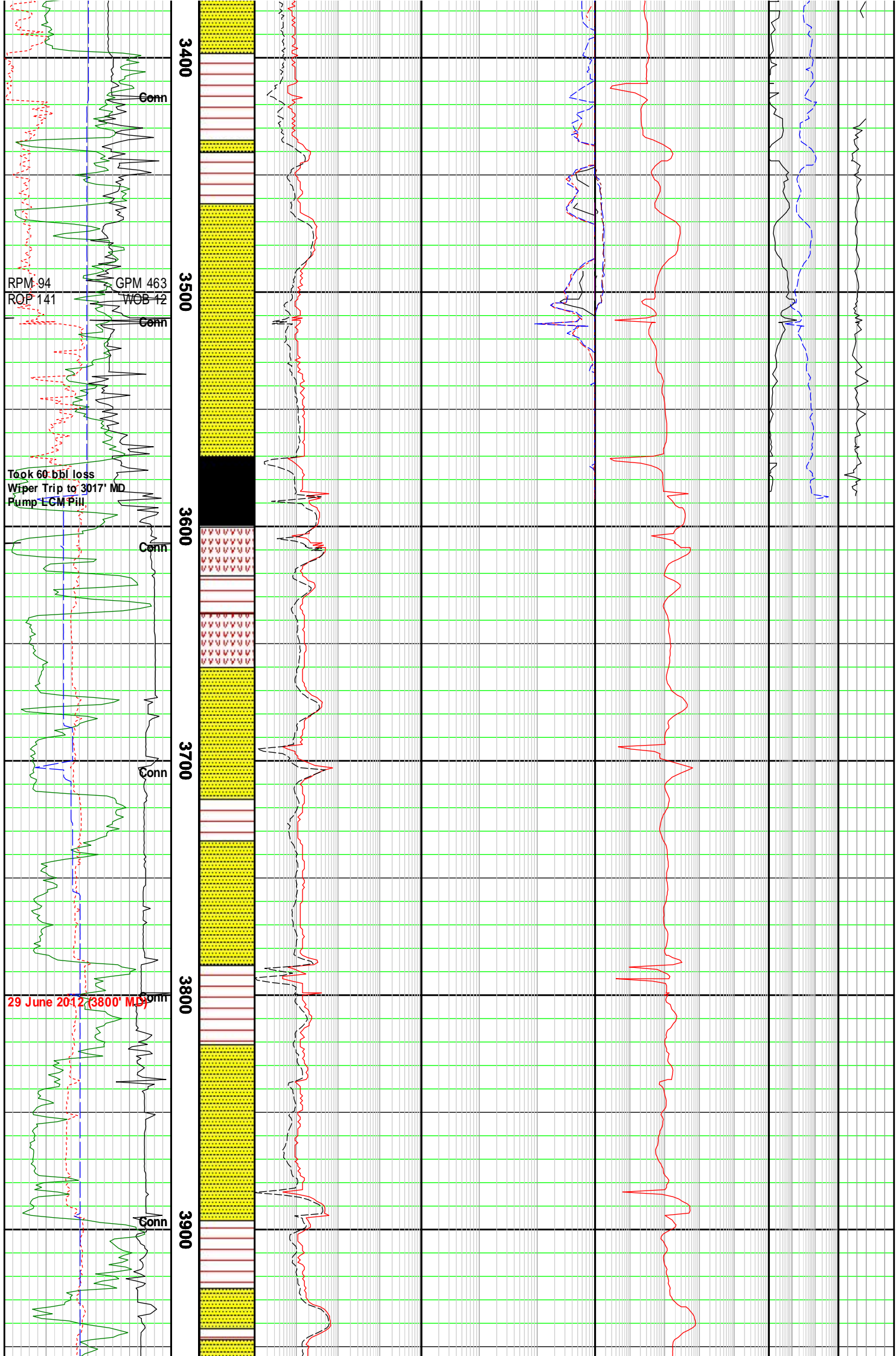


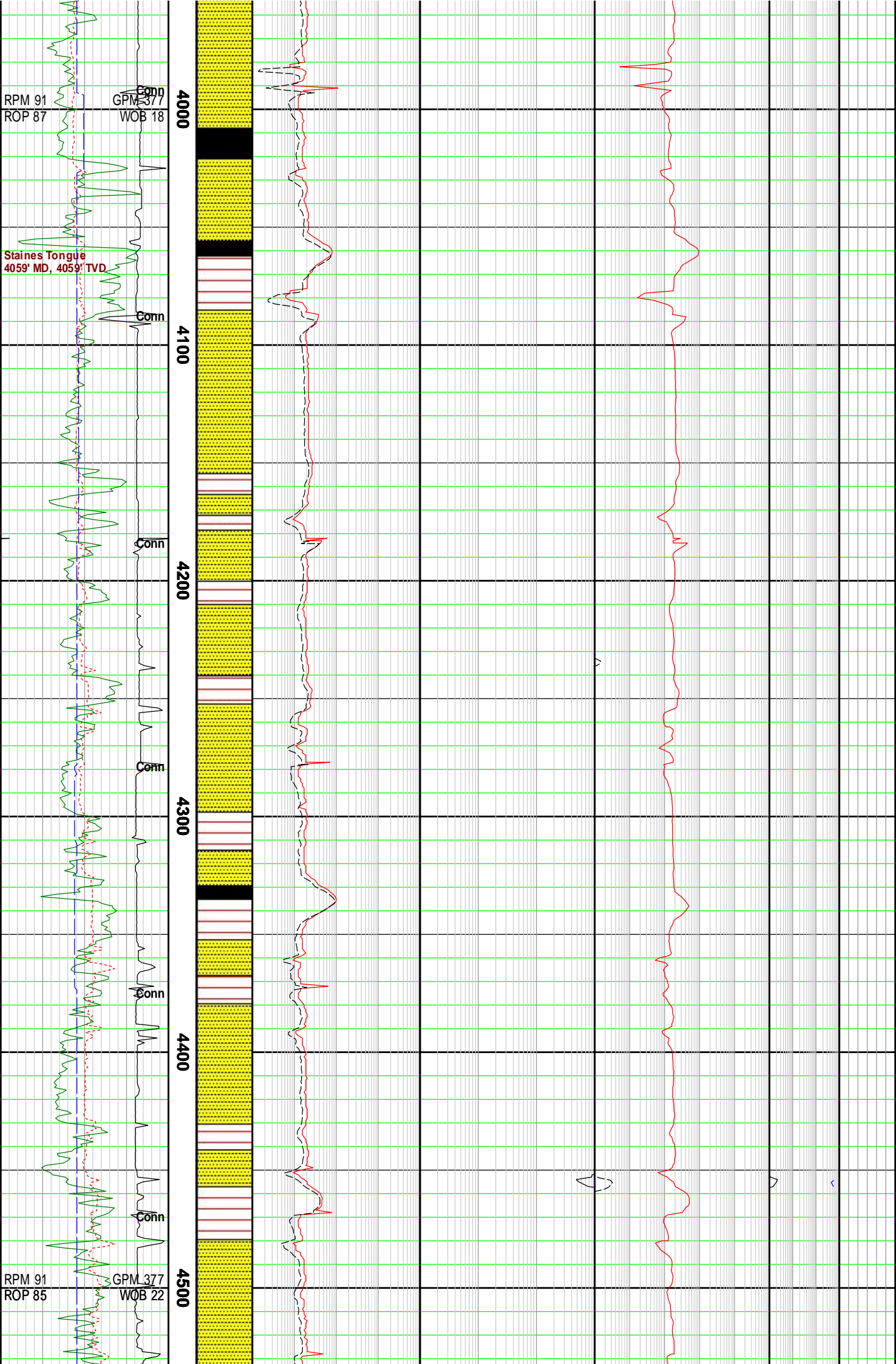


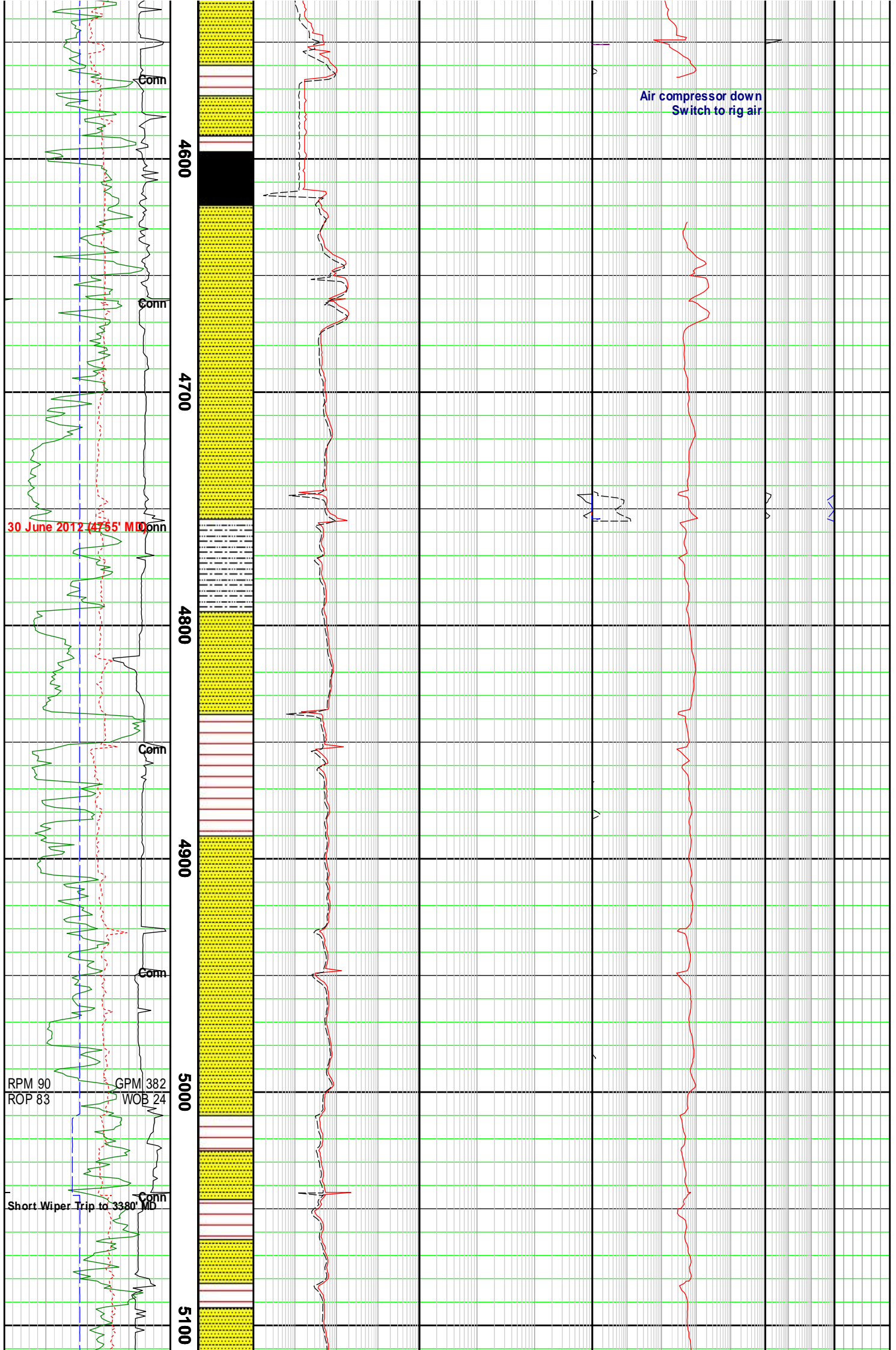


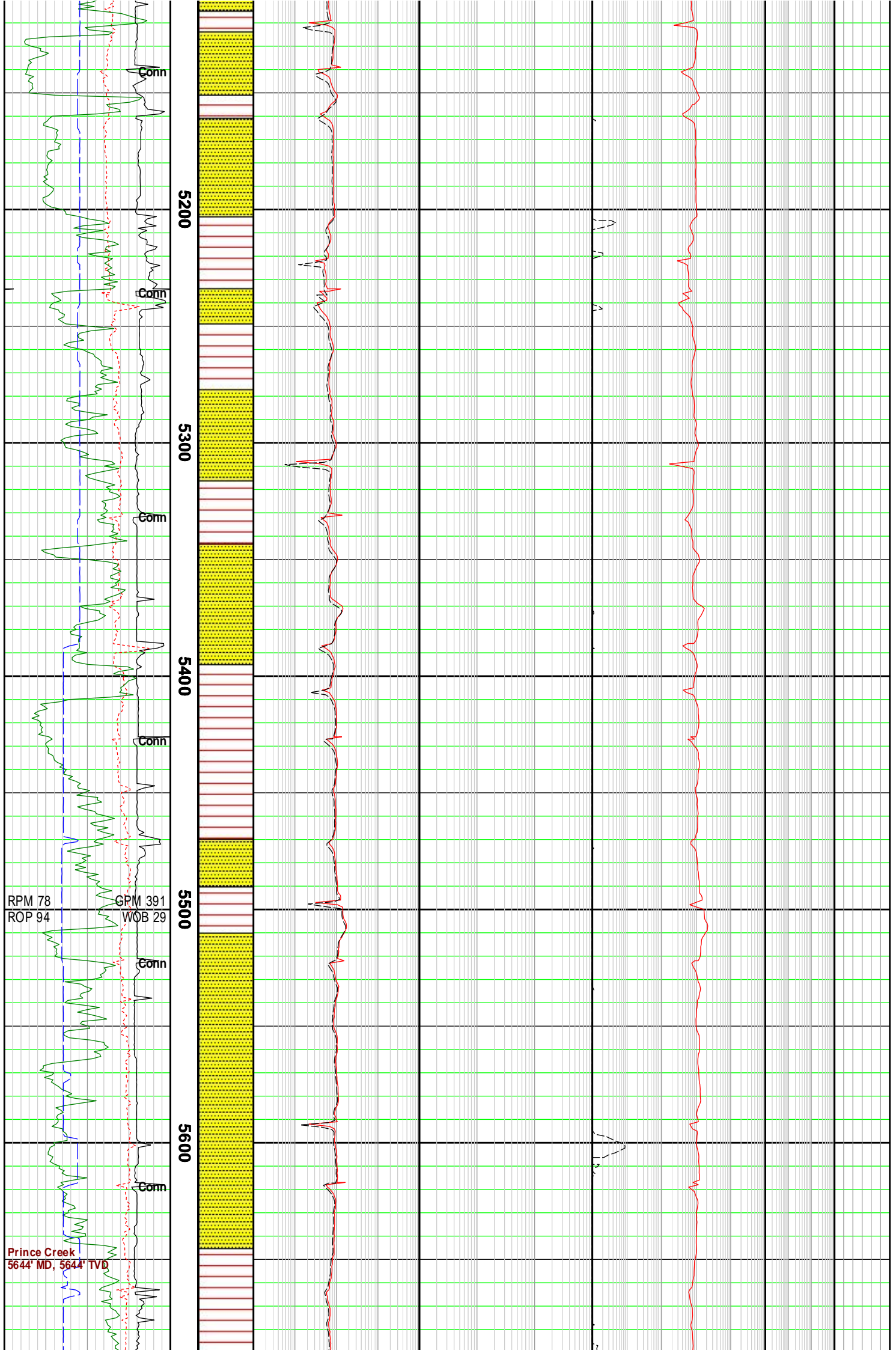


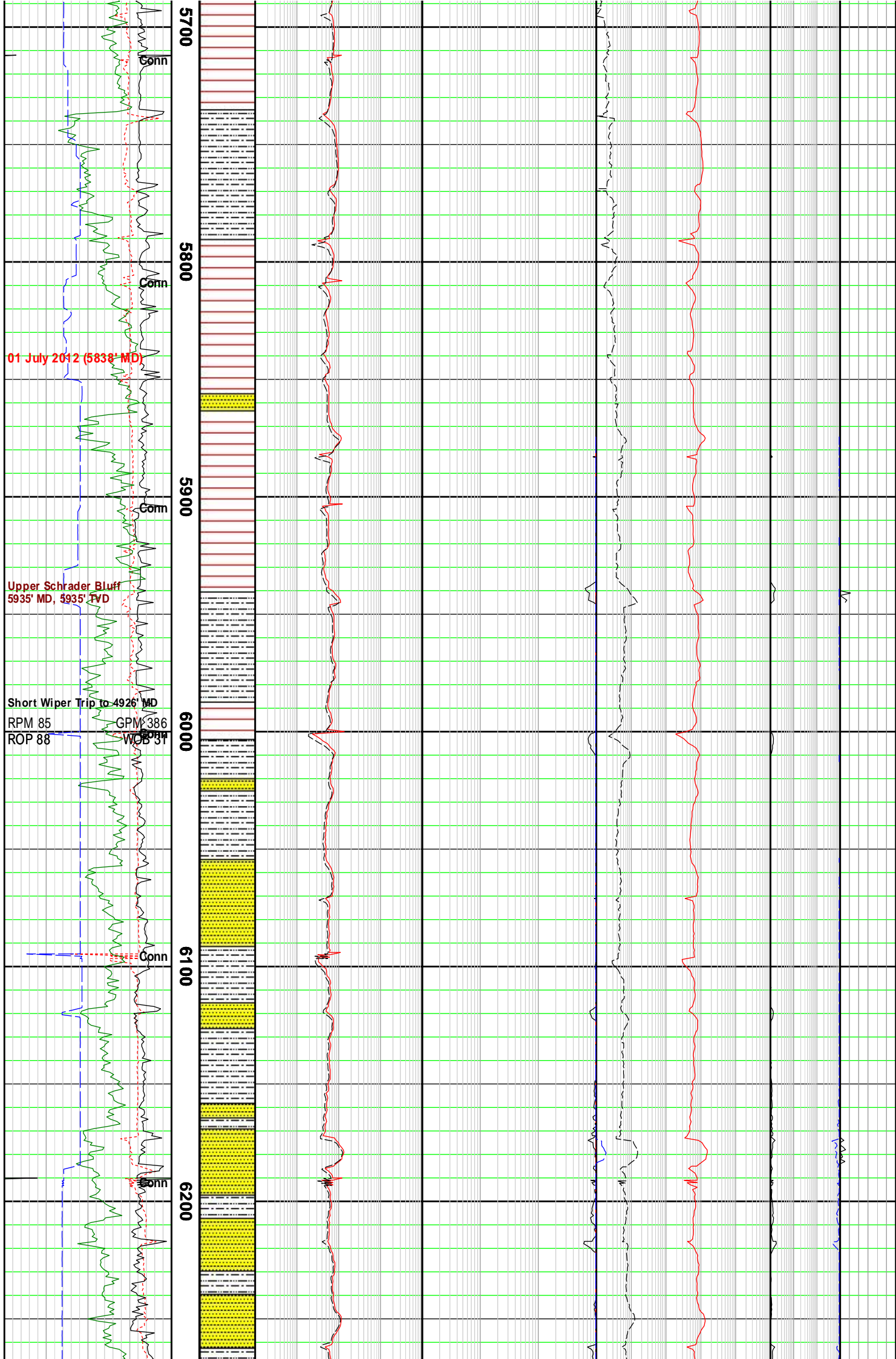


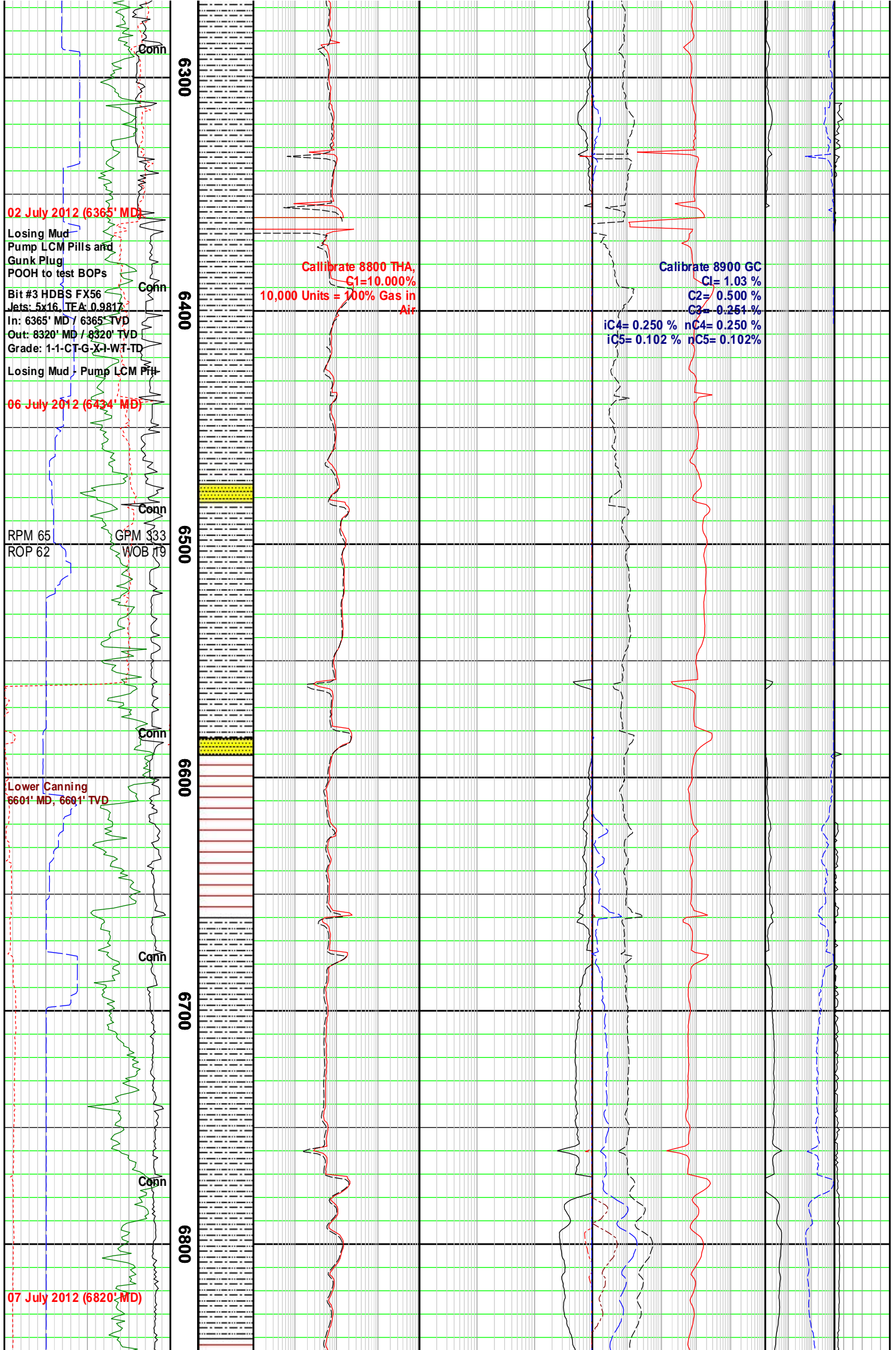


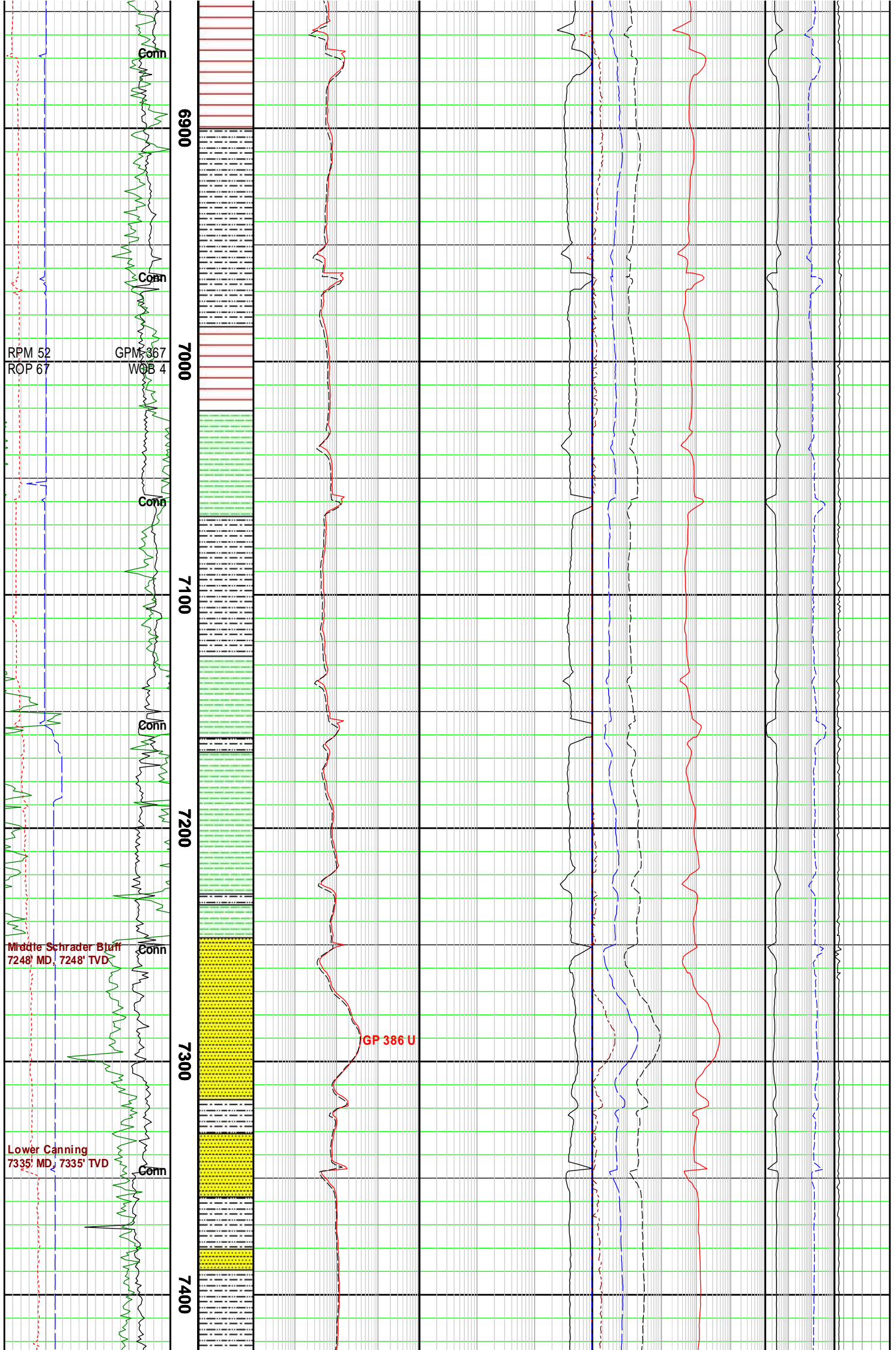












Short Wiper Trip to 7373' MD

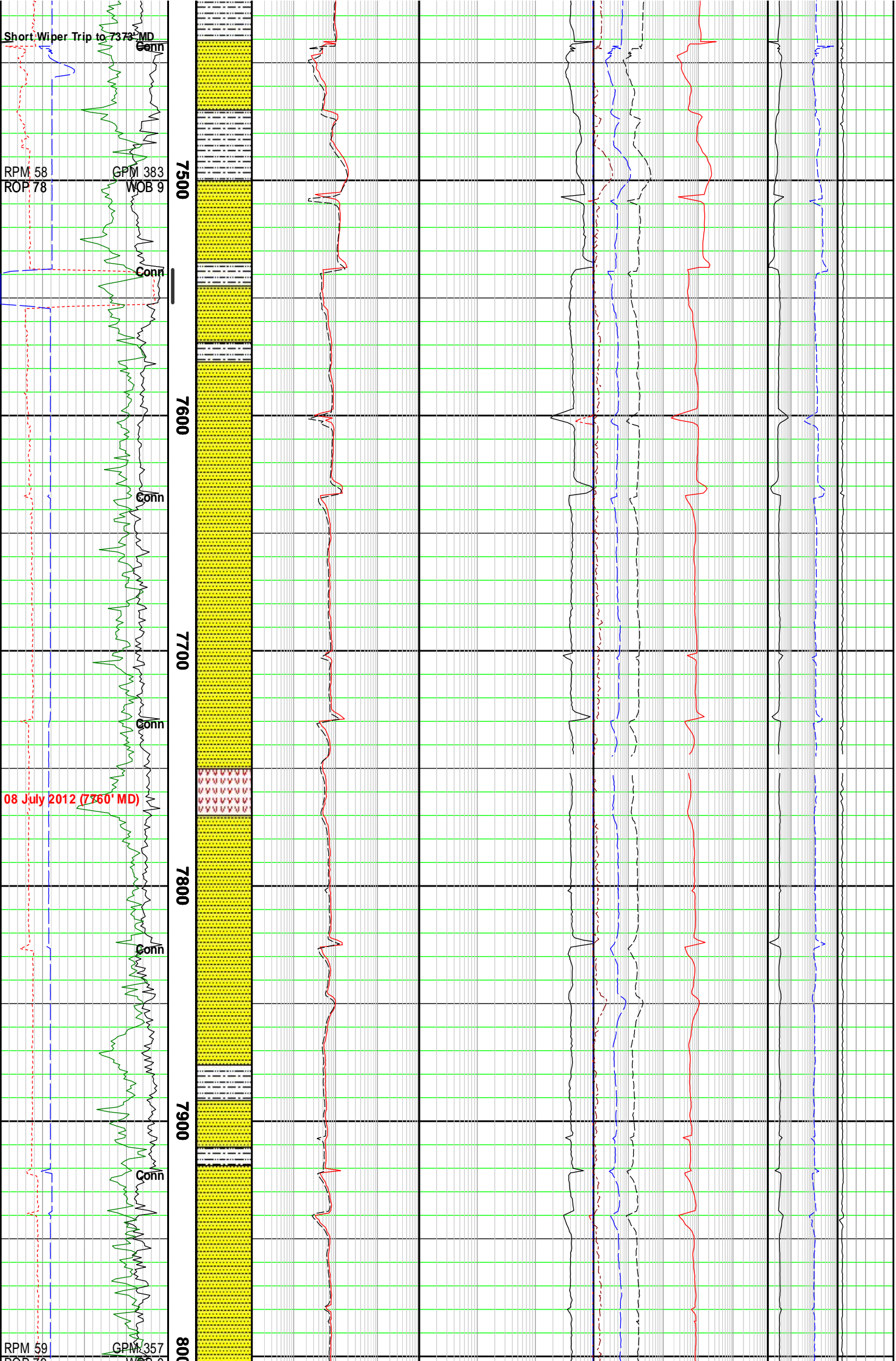
RPM 58
ROP 78

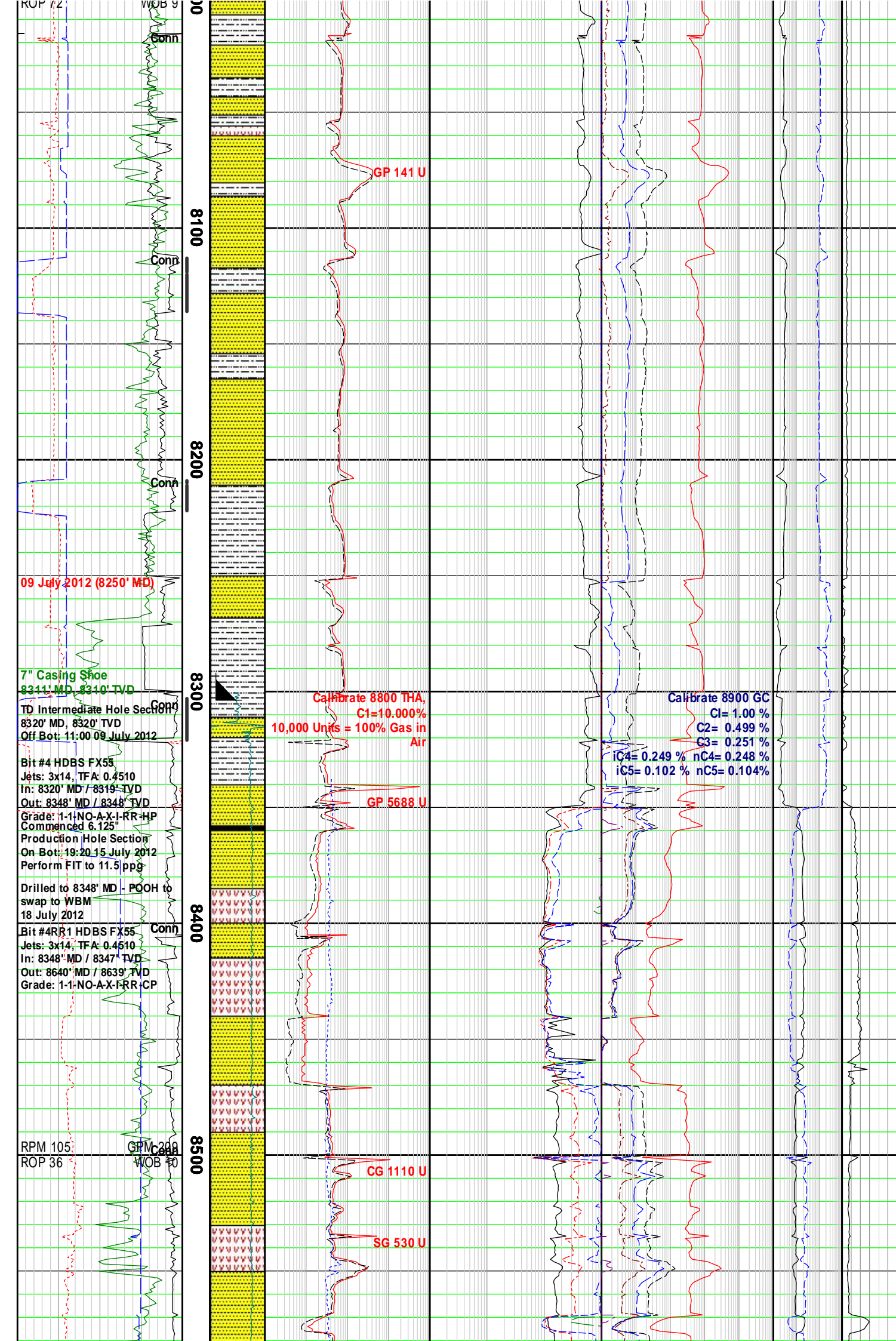
GPM 383
WOB 9

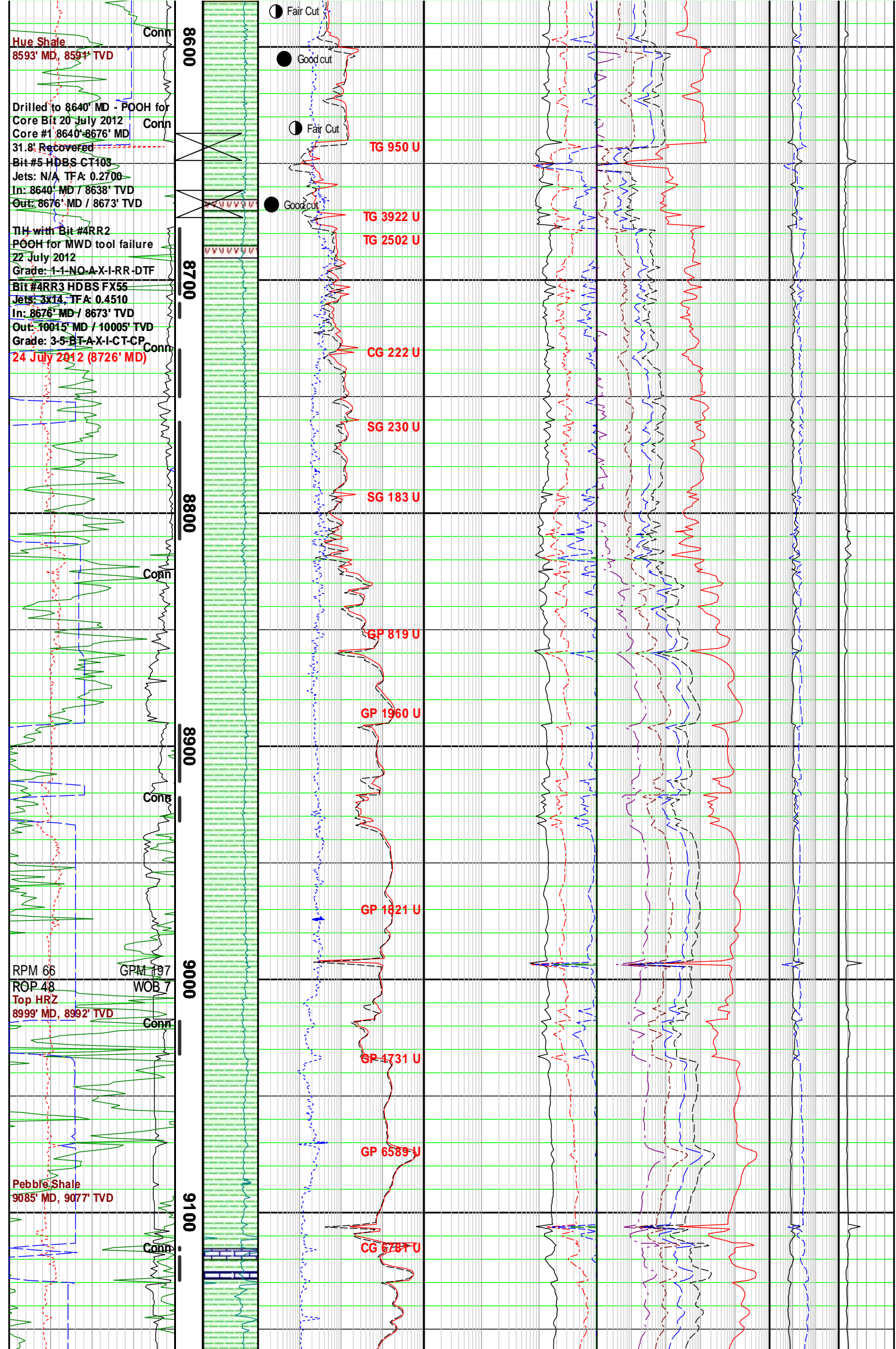
08 July 2012 (7360' MD)

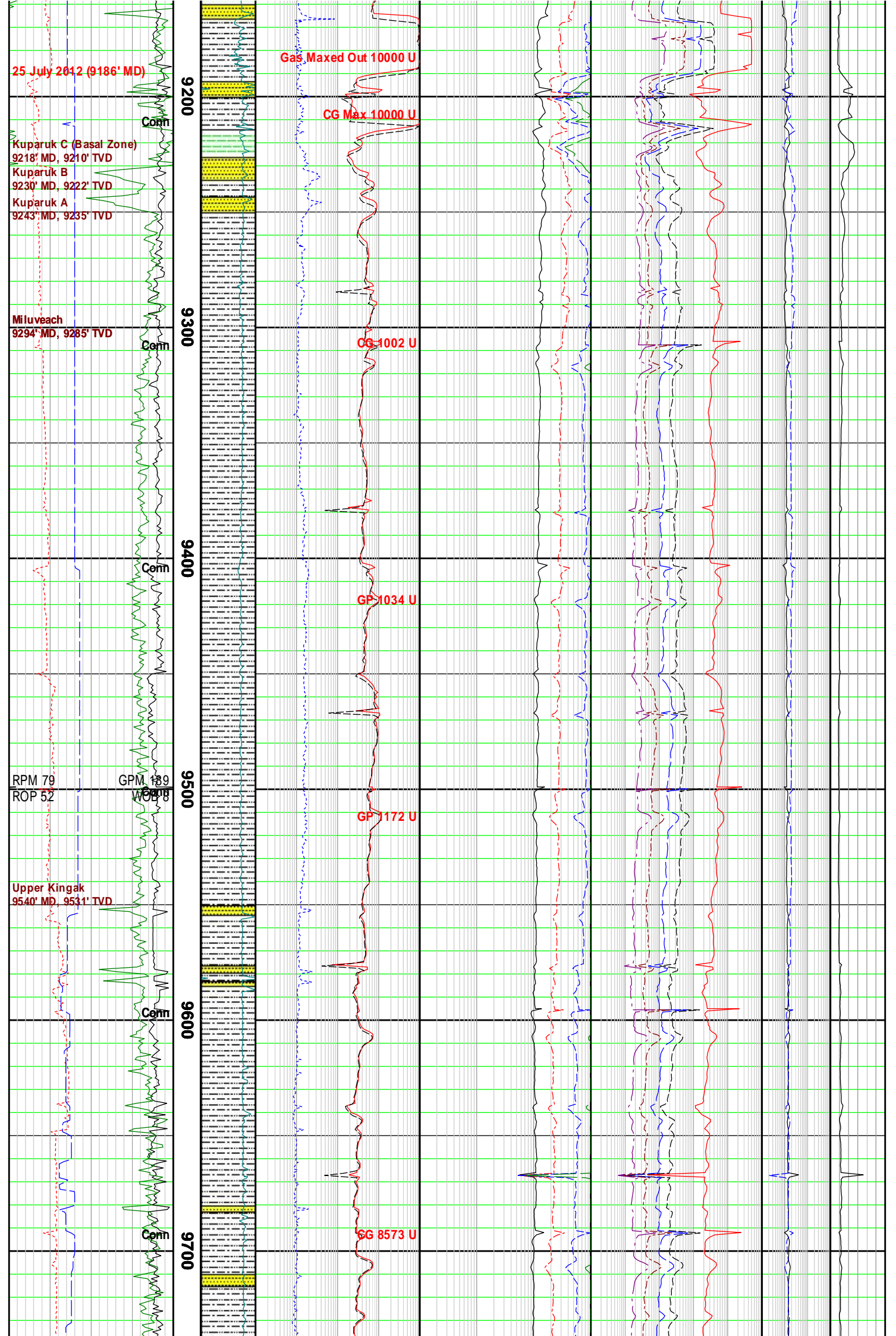
RPM 59
ROP 79

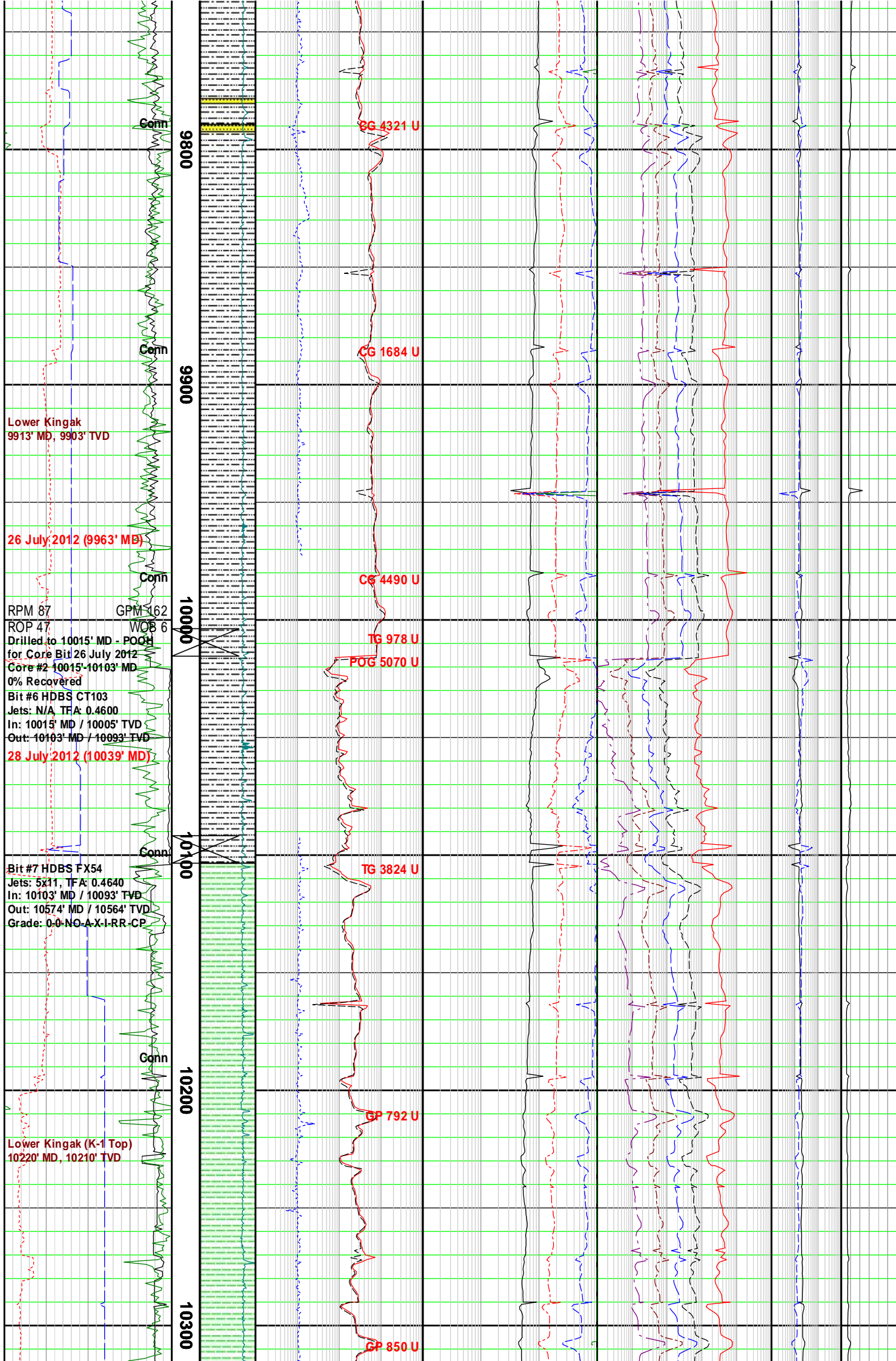
GPM 357
WOB 9

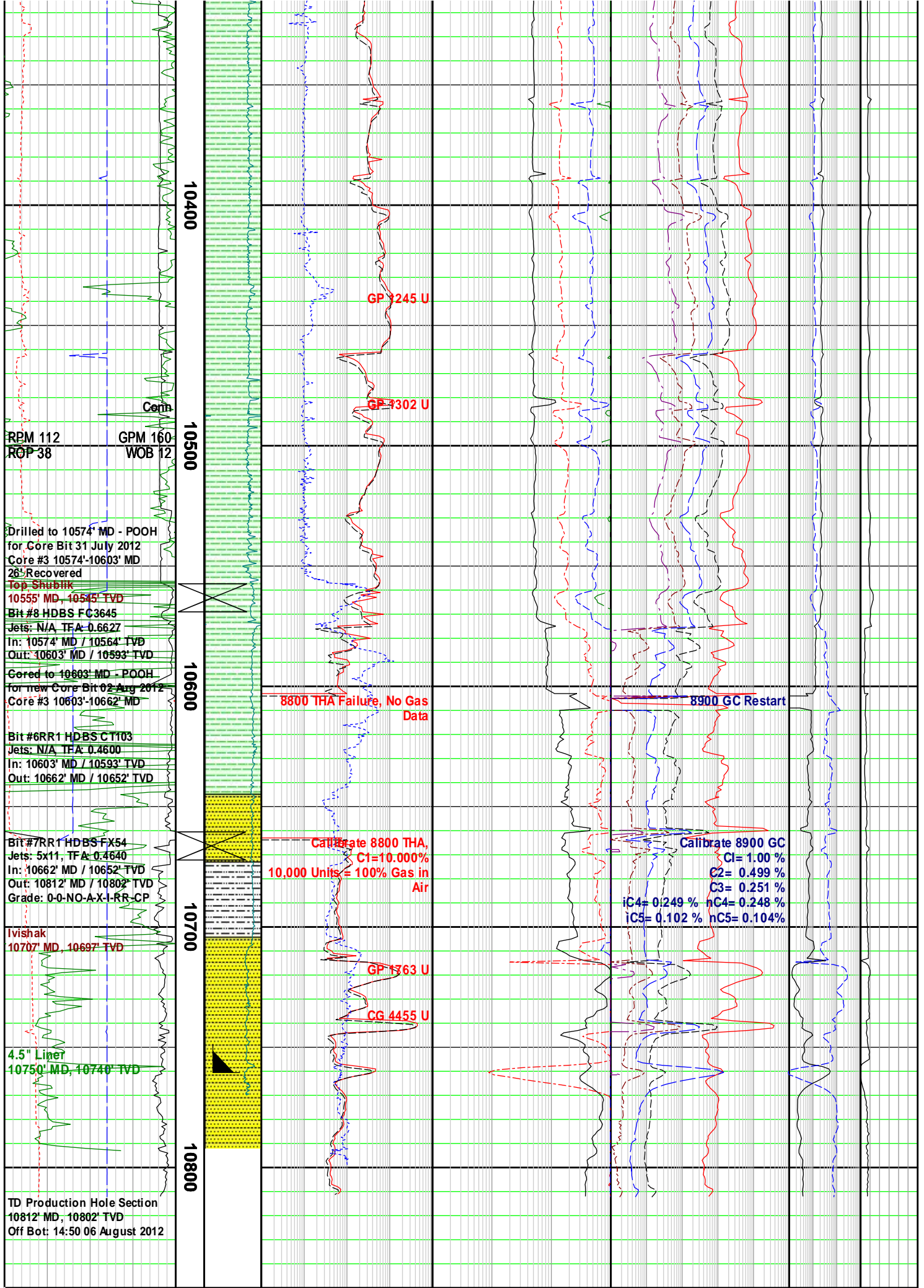












ROP		Depth	Interpreted Lithology	Gas in Air		Pixler Plot		Gas Chromatograph		Wetness		OCQ
500	ft/hr			10,000 units = 100%		Hydrocarbon Ratios		Gas in Air Analysis		(GWR)		
Gamma				Max Gas		Gas in Air		ppm				Char
0	api	150		1	units	10K	0.1	C1/C2	100	Methane	1	1K

0	WOB kbs	40	MD	og	1	Avg Gas units	10K	0.1	C1/C3	100	Ethane								acter
			Slide	tative				0.1	C1/C4	100	Propane								
	RPM rpm	200		Density	1 g/cc	0.1	Resistivity ohmm	1K	0.1	C1/C5	100	Total Butane					Balance (LHR)		
0												Total Pentane							3

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HALLIBURTON

DIRECTIONAL SURVEY REPORT

Great Bear Petroleum, LLC
 Alcor 1
 Exploration
 North Slope Borough Alaska
 USA
 AK-XX-0009285348
 All depths reference the driller's pipe tally.

Measured Depth (feet)	Inclination (degrees)	Direction (degrees)	Vertical Depth (feet)	Latitude (feet)	Departure (feet)	Vertical Section (feet)	Dogleg (deg/100ft)
0.00	0.00	0.00	0.00	0.00 N	0.00 E	0.00	TIE-IN
139.03	0.37	207.79	139.03	0.40 S	0.21 W	0.24	0.27
231.15	0.19	271.35	231.15	0.66 S	0.50 W	0.32	0.36
322.39	0.46	261.45	322.39	0.71 S	1.01 W	0.11	0.30
416.62	0.80	219.77	416.61	1.27 S	1.81 W	0.19	0.58
503.87	1.11	201.58	503.85	2.52 S	2.51 W	0.93	0.49
592.94	1.04	196.68	592.90	4.10 S	3.06 W	2.02	0.13
685.39	0.95	186.77	685.34	5.66 S	3.39 W	3.21	0.21
780.20	0.94	208.49	780.14	7.13 S	3.85 W	4.25	0.38
877.37	0.65	225.85	877.30	8.21 S	4.63 W	4.80	0.38
976.87	0.55	217.66	976.79	8.98 S	5.33 W	5.12	0.13
1070.52	0.84	233.02	1070.44	9.75 S	6.15 W	5.37	0.37
1161.77	0.84	184.97	1161.68	10.82 S	6.74 W	6.00	0.75
1259.04	0.65	208.98	1258.94	12.01 S	7.07 W	6.87	0.37
1355.56	0.78	205.42	1355.45	13.09 S	7.62 W	7.53	0.14
1451.70	0.70	209.13	1451.58	14.19 S	8.18 W	8.20	0.10
1547.61	0.87	214.97	1547.48	15.30 S	8.89 W	8.81	0.20
1642.98	0.86	205.66	1642.84	16.54 S	9.61 W	9.52	0.15
1739.38	0.64	193.71	1739.23	17.71 S	10.05 W	10.31	0.28
1836.78	0.69	209.38	1836.63	18.75 S	10.47 W	11.01	0.19
1931.60	0.71	175.26	1931.44	19.84 S	10.70 W	11.83	0.43
2028.33	0.48	183.94	2028.17	20.84 S	10.68 W	12.71	0.25
2123.91	0.46	205.20	2123.74	21.58 S	10.87 W	13.26	0.18
2217.21	0.50	180.79	2217.04	22.33 S	11.04 W	13.82	0.22
2312.62	0.53	181.16	2312.45	23.19 S	11.05 W	14.56	0.03
2409.08	0.22	169.25	2408.90	23.82 S	11.02 W	15.11	0.33
2463.32	0.57	179.55	2463.14	24.19 S	11.00 W	15.45	0.66
2510.66	0.67	119.99	2510.48	24.56 S	10.76 W	15.89	1.31
2606.45	1.05	112.70	2606.26	25.18 S	9.47 W	17.07	0.41
2700.00	0.12	96.30	2699.80	25.52 S	8.58 W	17.81	1.00
2799.23	0.18	69.63	2799.03	25.48 S	8.33 W	17.90	0.09
2894.32	0.50	111.12	2894.12	25.58 S	7.80 W	18.25	0.40
2990.67	0.53	133.19	2990.47	26.03 S	7.08 W	19.00	0.21
3084.68	0.88	117.17	3084.47	26.66 S	6.13 W	20.03	0.42
3180.11	0.85	116.51	3179.89	27.31 S	4.84 W	21.23	0.03
3275.33	0.61	141.14	3275.10	28.02 S	3.89 W	22.32	0.41
3372.36	0.83	141.77	3372.12	28.97 S	3.13 W	23.53	0.23

3468.66	0.65	129.82	3468.42	29.87 S	2.28 W	24.73	0.25
3560.34	1.00	128.73	3560.09	30.71 S	1.26 W	25.96	0.38
3656.27	0.94	157.86	3656.00	31.96 S	0.31 W	27.52	0.51
3755.14	0.94	121.17	3754.86	33.13 S	0.69 E	29.04	0.60
3851.82	0.94	107.39	3851.53	33.78 S	2.13 E	30.32	0.23
3948.95	0.63	109.99	3948.65	34.20 S	3.39 E	31.31	0.32
4043.92	0.19	103.09	4043.62	34.41 S	4.03 E	31.82	0.47
4140.04	0.15	126.06	4139.74	34.52 S	4.29 E	32.04	0.08
4236.56	0.32	102.08	4236.26	34.65 S	4.66 E	32.34	0.20
4331.54	0.29	159.75	4331.23	34.93 S	5.00 E	32.75	0.31
4425.85	0.62	116.22	4425.54	35.38 S	5.54 E	33.41	0.48
4523.07	0.27	149.90	4522.76	35.81 S	6.13 E	34.08	0.43
4618.45	0.53	131.14	4618.14	36.30 S	6.57 E	34.72	0.30
4710.67	0.31	184.86	4710.35	36.83 S	6.87 E	35.33	0.46
4808.64	0.68	180.96	4808.32	37.67 S	6.84 E	36.05	0.38
4903.55	0.33	180.86	4903.23	38.51 S	6.83 E	36.76	0.37
4999.95	0.55	168.26	4999.62	39.24 S	6.92 E	37.44	0.25
5095.22	0.47	204.56	5094.89	40.04 S	6.85 E	38.10	0.34
5190.87	0.69	179.59	5190.53	40.98 S	6.69 E	38.83	0.35
5286.20	0.26	183.07	5285.86	41.77 S	6.68 E	39.51	0.45
5382.80	0.32	212.82	5382.46	42.21 S	6.52 E	39.82	0.17
5476.87	0.51	208.96	5476.53	42.80 S	6.18 E	40.15	0.20
5573.78	0.60	174.46	5573.43	43.68 S	6.02 E	40.84	0.35
5669.61	0.39	169.03	5669.26	44.50 S	6.13 E	41.60	0.22
5764.88	0.46	176.14	5764.53	45.20 S	6.22 E	42.25	0.09
5860.77	0.50	196.81	5860.41	45.98 S	6.12 E	42.88	0.18
5956.68	0.61	212.35	5956.32	46.82 S	5.73 E	43.41	0.19
6054.74	0.58	217.79	6054.37	47.65 S	5.14 E	43.84	0.07
6149.17	0.43	229.35	6148.80	48.26 S	4.58 E	44.08	0.19
6241.53	0.53	187.93	6241.16	48.91 S	4.26 E	44.48	0.38
6336.73	0.44	156.77	6336.35	49.68 S	4.34 E	45.19	0.29
6388.96	0.51	174.23	6388.58	50.09 S	4.44 E	45.61	0.31
6437.33	0.65	159.50	6436.95	50.57 S	4.56 E	46.07	0.42
6534.86	0.49	172.94	6534.48	51.50 S	4.81 E	47.00	0.21
6630.89	0.45	184.45	6630.50	52.28 S	4.83 E	47.69	0.11
6726.83	0.44	180.68	6726.44	53.03 S	4.79 E	48.32	0.03
6822.44	0.40	162.88	6822.05	53.71 S	4.89 E	48.96	0.14
6918.13	0.56	174.04	6917.73	54.50 S	5.04 E	49.71	0.19
7011.46	0.32	185.63	7011.06	55.21 S	5.06 E	50.34	0.27
7109.41	0.54	204.95	7109.01	55.90 S	4.84 E	50.83	0.27
7205.30	0.45	211.55	7204.89	56.63 S	4.45 E	51.27	0.11
7301.43	0.57	216.27	7301.02	57.34 S	3.97 E	51.64	0.13
7394.03	0.88	237.89	7393.61	58.09 S	3.09 E	51.85	0.44
7492.35	1.06	248.06	7491.92	58.83 S	1.61 E	51.75	0.25
7589.06	0.64	283.13	7588.62	59.04 S	0.25 E	51.26	0.67
7684.78	0.72	280.36	7684.33	58.81 S	0.86 W	50.50	0.09
7779.85	0.64	297.13	7779.40	58.46 S	1.92 W	49.67	0.22
7877.15	0.79	282.23	7876.69	58.07 S	3.06 W	48.76	0.24
7973.13	0.91	268.39	7972.66	57.95 S	4.47 W	47.95	0.25
8066.71	1.07	262.34	8066.22	58.09 S	6.07 W	47.27	0.20
8163.21	1.06	183.52	8162.71	59.10 S	7.02 W	47.67	1.40
8256.61	2.03	187.48	8256.08	61.60 S	7.29 W	49.70	1.04
8276.71	2.22	188.14	8276.16	62.34 S	7.39 W	50.29	0.95
8360.29	3.67	182.39	8359.63	66.62 S	7.73 W	53.82	1.77
8396.65	4.99	183.01	8395.88	69.36 S	7.86 W	56.13	3.63
8428.91	5.96	184.13	8428.00	72.43 S	8.06 W	58.70	3.02
8457.38	6.62	184.77	8456.30	75.54 S	8.30 W	61.27	2.33
8491.89	7.22	186.53	8490.55	79.68 S	8.71 W	64.64	1.84
8525.32	8.06	186.68	8523.69	84.09 S	9.23 W	68.21	2.51
8554.46	8.67	185.91	8552.52	88.30 S	9.69 W	71.63	2.13
8598.25	9.50	184.77	8595.76	95.19 S	10.33 W	77.27	1.94
8659.65	10.12	183.80	8656.26	105.62 S	11.11 W	85.92	1.04
8693.51	9.83	182.61	8689.61	111.48 S	11.44 W	90.82	1.05
8723.57	9.80	181.00	8719.23	116.60 S	11.60 W	95.18	0.92
8756.25	9.65	180.09	8751.44	122.12 S	11.65 W	99.93	0.66
8790.22	8.91	178.99	8784.96	127.60 S	11.61 W	104.70	2.24
8825.57	8.56	177.37	8819.90	132.96 S	11.44 W	109.43	1.21
8850.66	8.67	176.28	8844.71	136.71 S	11.23 W	112.78	0.78
8950.92	7.22	181.35	8944.01	150.55 S	10.89 W	124.94	1.60
9046.40	6.24	171.45	9038.83	161.68 S	10.26 W	134.89	1.59
9143.03	4.89	174.66	9135.00	170.98 S	9.10 W	143.52	1.43
9240.11	4.61	172.51	9231.75	178.97 S	8.20 W	150.89	0.34
9335.90	4.22	173.94	9327.25	186.29 S	7.33 W	157.66	0.42
9431.91	3.88	174.51	9423.03	193.03 S	6.64 W	163.85	0.36
9527.21	3.48	174.68	9518.13	199.12 S	6.07 W	169.41	0.42
9622.34	3.07	176.04	9613.10	204.54 S	5.62 W	174.32	0.44

9719.33	3.05	174.83	9709.96	209.70 S	5.21 W	179.00	0.07
9815.52	2.76	177.03	9806.02	214.56 S	4.86 W	183.38	0.32
9912.28	2.50	181.36	9902.68	219.00 S	4.79 W	187.26	0.34
10064.19	2.23	194.12	10054.46	225.18 S	5.59 W	192.21	0.39
10157.05	1.66	203.99	10147.27	228.16 S	6.58 W	194.30	0.71
10254.18	1.66	200.62	10244.36	230.76 S	7.65 W	196.02	0.10
10349.19	1.60	196.87	10339.33	233.32 S	8.52 W	197.80	0.13
10447.17	1.59	196.11	10437.27	235.93 S	9.29 W	199.68	0.02
10539.87	1.20	196.93	10529.94	238.09 S	9.93 W	201.23	0.42
10731.66	0.57	144.06	10721.71	240.79 S	9.95 W	203.55	0.51
10778.66	0.52	224.28	10768.71	241.13 S	9.97 W	203.84	1.50
10812.00	0.52	224.28	10802.05	241.35 S	10.18 W	203.92	0.00

CALCULATION BASED ON MINIMUM CURVATURE METHOD

SURVEY COORDINATES RELATIVE TO WELL SYSTEM REFERENCE POINT
TVD VALUES GIVEN RELATIVE TO DRILLING MEASUREMENT POINT

VERTICAL SECTION RELATIVE TO WELL HEAD
VERTICAL SECTION IS COMPUTED ALONG A DIRECTION OF 150.00 DEGREES (TRUE)
A TOTAL CORRECTION OF 20.87 DEG FROM MAGNETIC NORTH TO TRUE NORTH HAS BEEN APPLIED

HORIZONTAL DISPLACEMENT IS RELATIVE TO THE WELL HEAD.
HORIZONTAL DISPLACEMENT(CLOSURE) AT 10812.00 FEET
IS 241.56 FEET ALONG 182.41 DEGREES (TRUE)