

ROP Rate of Penetration
DDS Drillstring Dynamics
PWD Pressure While Drilling

PROPRIETARY

17.5" Hole Section PWD DDS Time Log

Country : USA		Field : Posey 6912		Location : Lat: 71° 10' 24.06" North Long: 163° 28' 18.67" West		Well : OCS-Y-2321 BJ001 ST00BP00		Company : Shell Gulf of Mexico Inc.		Rig : Polar Pioneer													
Permanent Datum : Mean Sea Level		Elevation : 0.00 ft		Log Measured From : Drill Floor		76.00 ft Above Permanent Datum		Drilling Measured From : Drill Floor		<table border="1"> <tr> <th colspan="2">LOCATION</th> <th colspan="2">Other Services</th> </tr> <tr> <td>Latitude : 71° 10' 24.06" North</td> <td>Longitude : 163° 28' 18.67" West</td> <td>ADR, DGR, EWR</td> <td>ALD, CTN, XBAT</td> </tr> <tr> <td>Final UTM Easting = 555,034,550 m</td> <td>Final UTM Northing = 7,897,425,308 m</td> <td>MRL-WD</td> <td>WD</td> </tr> </table>		LOCATION		Other Services		Latitude : 71° 10' 24.06" North	Longitude : 163° 28' 18.67" West	ADR, DGR, EWR	ALD, CTN, XBAT	Final UTM Easting = 555,034,550 m	Final UTM Northing = 7,897,425,308 m	MRL-WD	WD
LOCATION		Other Services																					
Latitude : 71° 10' 24.06" North	Longitude : 163° 28' 18.67" West	ADR, DGR, EWR	ALD, CTN, XBAT																				
Final UTM Easting = 555,034,550 m	Final UTM Northing = 7,897,425,308 m	MRL-WD	WD																				
Depth Logged : 222.00 ft		To 2,963.00 ft		Date Logged : 30-Jul-15		To 07-Sep-15		Total Depth MD : 2,963.00 ft		TVD : 2,962.86 ft													
Spud Date : 30-Jul-15		Unit No. : 1		Job No. : AK-XX-0901604700		Plot Type : Final		Plot Date : 31-Oct-15															
Run No.		Borehole Record (MD)		Size		Weight		Casing Record (MD)															
1	8,500 in	222.00 ft	1,512.00 ft	36,000 in	746.00 lbpf	257.00 ft	375.00 ft																
2	36,000 in	222.00 ft	384.00 ft	22,000 in	224.00 lbpf	257.00 ft	1,475.00 ft																
3	36,000 in	222.00 ft	390.00 ft																				
4	26,000 in	390.00 ft	425.00 ft																				
4B	26,000 in	425.00 ft	1,512.00 ft																				
5	17,500 in	1,512.00 ft	2,963.00 ft																				

TIME LOG

WELL INFORMATION

MWD Run Number	500			
Date run completed	07-Sep-15			
Rig Bit Number	500			
Bit Size (in)	17.500			
Tool Nominal OD (in)	8.000			
Log Start Depth (MD, ft)	1,512.00			
Log End Depth (MD, ft)	2,963.00			
Drill or Wipe	Drill			
Drill/Wipe Start Date and Time	04-Sep-15 18:30			
Drill/Wipe End Date and Time	06-Sep-15 06:30			
Min Inc (deg) @ Depth (MD, ft)	0.12 @ 1,540.18			
Max Inc (deg) @ Depth (MD, ft)	1.06 @ 2,003.18			
Bit TFA(in2) / Bit Type	0.75 / PDC			
Flow Rate (gpm)	850.00			
Max AV (fpm) / CV (fpm) @ MWD	91.0 / 620.0			
Fluid Type	Polymer			
Density (ppg) / Viscosity (spqt)	10.00 / 57.00			
Filtrate CL (ppm)	130,000.00			
pH / Fluid Loss (mptm)	9.10 / 3			
PV (cP) / YP (lhf2)	20 / 27.00			
% Solids / % Sand	2.22 / 0			
% Oil / Oil:Water Ratio	0 / 0.86			
Rm @ Measured Temp (degF)	N/A @ N/A			
Rmf @ Measured Temp (degF)	N/A @ N/A			
Rmc @ Measured Temp (degF)	N/A @ N/A			
Max Tool Temp (degF) / Source	113.18 / HCIM			

Rm @ Max Tool Temp (degF)	N/A @ 113.18			
Lead MWD Engineer	Jack Kleinhans			
Customer Representative	Matt Cazalet			

SENSOR INFORMATION

Downhole Processor Information

Tool Type	HCIM			
Software Version	88.58			
Sub Serial Number	12562642			
Insert Serial Number	11753209			
Date and Time Initialized	03-Sep-15 13:40			
Date and Time Read	07-Sep-15 05:57			
ECMB SW Version	N/A			

Directional Sensor Information

Tool Type	PCDC			
Distance From Bit (ft)	79.96			
Software Version	6.21			
Sub Serial Number	11672161			
Sonde Serial Number	11477951			
Sensor ID Number	N/A			
Toolface Offset (deg)	235.51			

Pressure Sensor Information

Tool Type	PWD			
Distance From Bit (ft)	89.88			
Recorded Sample Period (sec)	2			
Software Version	4.14			
Collar Serial Number	11905281			
Insert Serial Number	11996744			

DDSr-HCIM Sensor Information

Tool Type	DDSr-HCIM			
Distance From Bit (ft)	94.89			
Recorded Sample Period (sec)	16			
Software Version	20.88			
Sub Serial Number	12562642			
Insert Serial Number	11463449			
Sensor ID Number	7194			

REMARKS

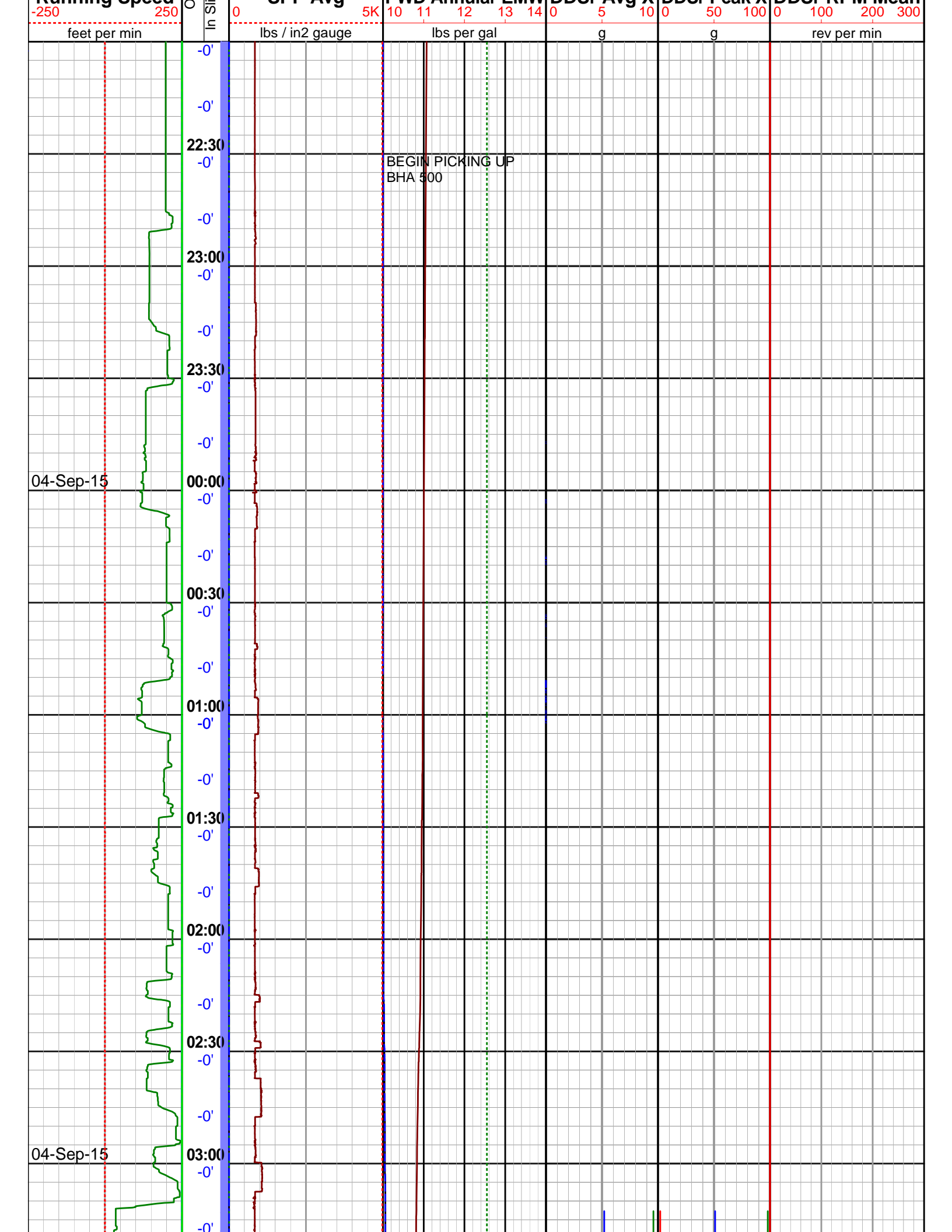
1. ALL DEPTHS ARE MEASURED DEPTHS (MD), UNLESS OTHERWISE NOTED. THESE DEPTHS ARE BIT DEPTHS AND ARE CALLIBRATED TO THE DRILLERS PIPE TALLY. NO DEPTH CORRECTIONS HAVE BEEN MADE FOR PIPE STRETCH OR COMPRESSION.
2. ALL VERTICAL DEPTHS ARE TRUE VERTICAL DEPTHS (TVD), UNLESS OTHERWISE NOTED. ONLY INVERTED / REVERTED SECTIONS GREATER THAN 30' TVD ARE PRESENTED
3. ALL DATA PRESENTED IS RECORDED DATA UNLESS OTHERWISE STATED.
4. LWD RUN 1 WAS COMPRISED OF DIRECTIONAL, DUAL GAMMA RAY (DGR) UTILIZING GEIGER-MUELLER TUBE TYPE DETECTORS, AZIMUTHAL DEEP ELECTROMAGNETIC WAVE RESISTIVITY (ADR), PRESSURE WHILE DRILLING (PWD) DRILLSTRING DYNAMICS SENSOR (DDSr), AZIMUTHAL LITHODENSITY (ALD), COMPENSATED THERMAL NEUTRON (CTN), MAGNETIC RESONANCE WHILE DRILLING (MRIL-WD), AZIMUTHAL BIMODAL ACOUSTIC TOOL (XBAT), AND THE AZIMUTHAL ACOUSTIC CALIPER TOOL (XCAL).

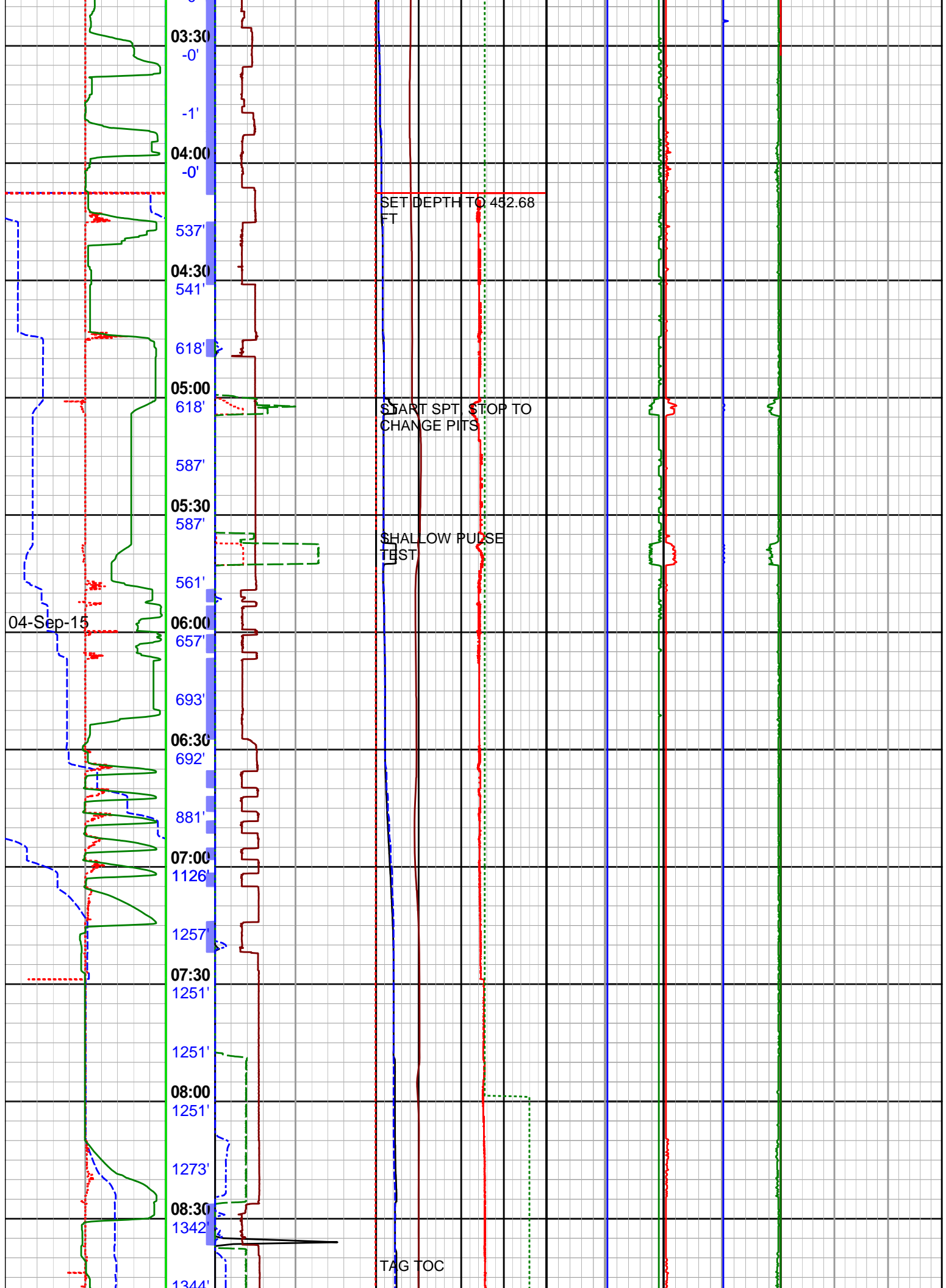
5. RUN 200 WAS A 36" HOLE OPENING RUN, NO MWD TOOLS WERE PRESENT THEREFOR IT IS NOT PRESENTED.
6. RUN 300 WAS A 42" HOLE OPENING RUN, NO MWD TOOLS WERE PRESENT THEREFOR IT IS NOT PRESENTED.
7. RUN 400 WAS A CLEANOUT RUN TO DRILL OUT THE SHOE TRACK AND 30' OF NEW FORMATION, NO MWD TOOLS WERE PRESENT THEREFOR IT IS NOT PRESENTED.
8. RUN 401 WAS A 26" HOLE OPENING RUN UTILIZING DIRECTIONAL, DRILL STRING DYNAMICS SENSOR AND PRESSURE WHILE DRILLING. NO LOGGING SENSORS WERE PRESENT.
9. MWD RUN 500 WAS A 17.5" DRILLING RUN UTILIZING DIRECTIONAL, DRILL STRING DYNAMICS SENSOR AND PRESSURE WHILE DRILLING. NO LOGGING SENSORS WERE PRESENT.
10. LWD RUN 6 WAS COMPRISED OF DIRECTIONAL, DUAL GAMMA RAY (DGR) UTILIZING GEIGER-MUELLER TUBE TYPE DETECTORS, ELECTROMAGNETIC WAVE RESISTIVITY PHASE 4 (EWR-P4), PRESSURE WHILE DRILLING (PWD) DRILLSTRING DYNAMICS SENSOR (DDSr), AZIMUTHAL LITHODENSITY (ALD), COMPENSATED THERMAL NEUTRON (CTN), AZIMUTHAL BIMODAL ACOUSTIC TOOL (XBAT), AND THE AZIMUTHAL ACOUSTIC CALIPER TOOL (XCAL).
11. LWD RUN 7 WAS COMPRISED OF DIRECTIONAL, DUAL GAMMA RAY (DGR) UTILIZING GEIGER-MUELLER TUBE TYPE DETECTORS, AZIMUTHAL DEEP ELECTROMAGNETIC WAVE RESISTIVITY (ADR), PRESSURE WHILE DRILLING (PWD) DRILLSTRING DYNAMICS SENSOR (DDSr), AZIMUTHAL LITHODENSITY (ALD), COMPENSATED THERMAL NEUTRON (CTN), MAGNETIC RESONANCE WHILE DRILLING (MRIL-WD), AZIMUTHAL BIMODAL ACOUSTIC TOOL (XBAT), AND THE AZIMUTHAL ACOUSTIC CALIPER TOOL (XCAL).
12. OVER THE COURSE OF THE 12.25" HOLE SECTION THERE ARE SEVERAL INSTANCES WHERE THE BOREHOLE RUGOSITY HAS CREATED "SPIKES" IN THE RESISTIVITY DATA. THIS IS DUE TO ONE RECIEVER READING THE HIGH SALINITY BOREHOLE FLUID (WASHOUT) AND THE OTHER READING THE FORMATION. THERE ARE ALSO AREAS ACROSS THE LOGGED INTERVAL THAT SHOW AN UNDERGAUGE HOLE.
13. RUNS 1- 7 REPRESENT THE OCS-Y-2321 BJ001 ST00BP00 WELL WITH AN API# OF 55-352-00004-00. THIS WELL REACHED A TOTAL DEPTH OF 6,800'MD / 6,795'TVD

WARRANTY

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		Hookload Avg		PWD Ann Gauge Temp		DDSr Stick Slip						
		0 400		0 50 100 150 200		0 100 200 300 400						
		kilo pounds		fahrenheit								
ROP Avg		Torque Abs		PWD Internal Pressure		100- 150- < 100% 150% 200% > 200%						
400 0		0 25K		0 1.25K 2.5K 3.75K 5K		Low Med High Full Stall						
feet per hr		foot-pound		lbs / in2 gauge								
Bit Depth		RPM Surface Avg		PWD Annular Pressure		DDSr Avg Z		DDSr Peak Z		DDSr RPM Max		
0 500		0 200		0 1.25K 2.5K 3.75K 5K		-5 0 5		-50 0 50		0 100 200 300		
feet		rev per min		lbs / in2 gauge		g		g		rev per min		
Block Position		Flow In		Dens Mud In		DDSr Avg Y		DDSr Peak Y		DDSr RPM Min		
205 -5		0 1K		10 11 12 13 14		10 5 0		100 50 0		0 100 200 300		
feet		gallon per min		lbs per gal		g		g		rev per min		
Running Speed		SPP Avg		PWD Annular EMW		DDSr Avg X		DDSr Peak X		DDSr RPM Mean		
In Btm ps Status												





04-Sep-15

09:00

1382'

1433'

09:30

1437'

1465'

10:00

1465'

1465'

10:30

1465'

1465'

11:00

1465'

1465'

11:30

1465'

1465'

04-Sep-15

12:00

1465'

1465'

12:30

1465'

1465'

13:00

1465'

1465'

13:30

1465'

1465'

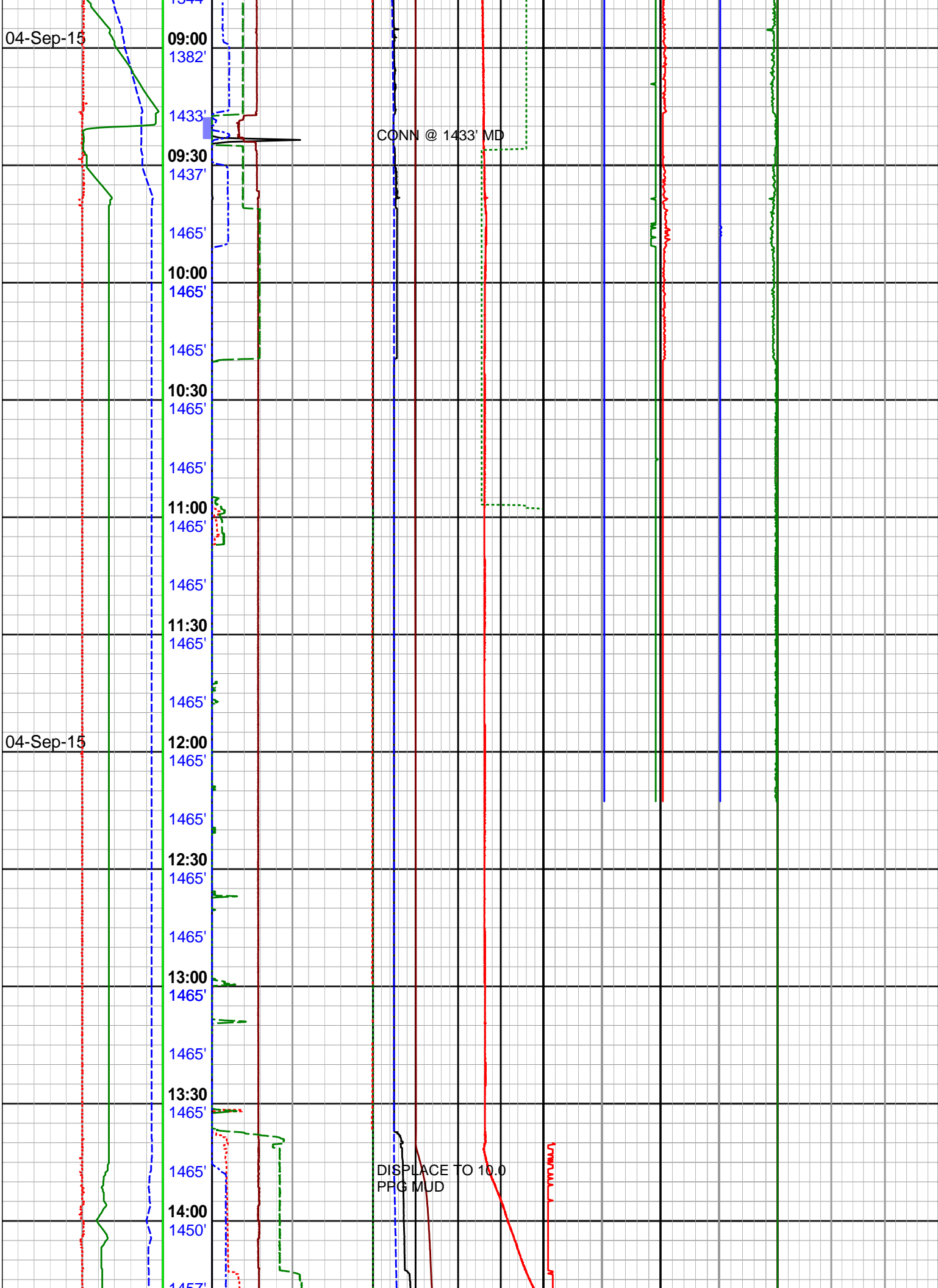
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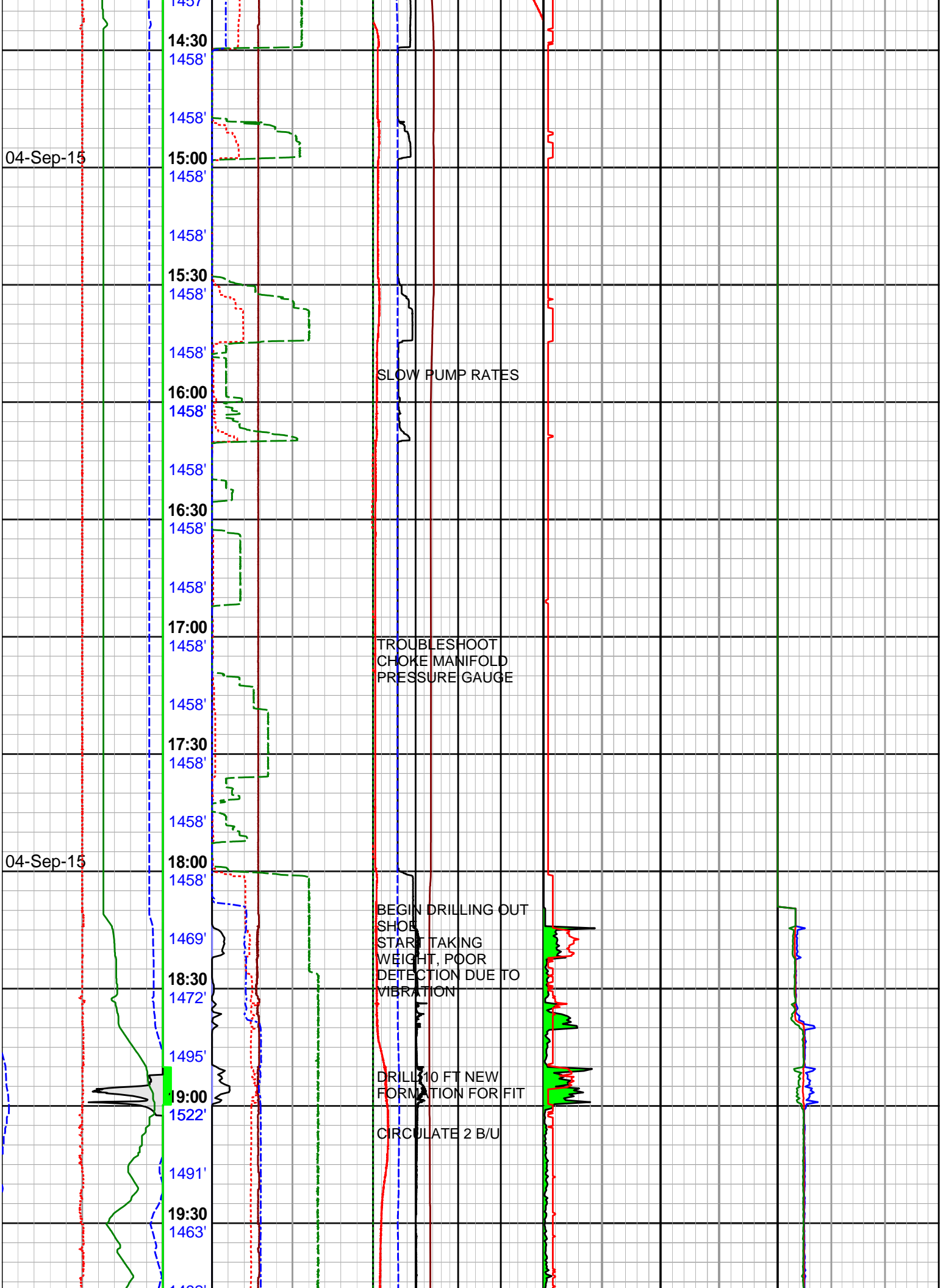
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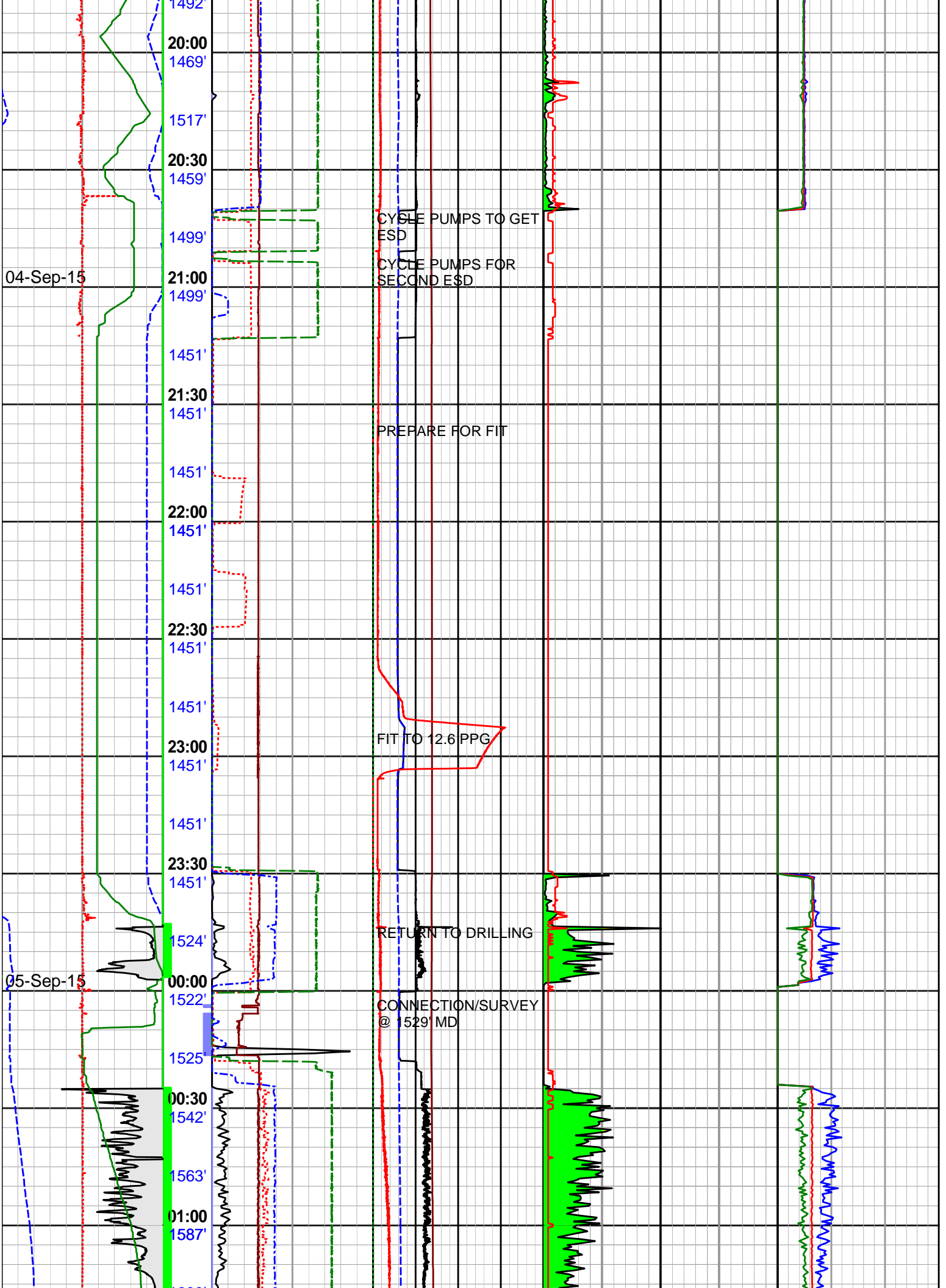
1457'

CONN @ 1433' MD

DISPLACE TO 10.0 PFG MUD







20:00

1469'

1517'

20:30

1459'

1499'

21:00

1499'

1451'

21:30

1451'

1451'

22:00

1451'

1451'

22:30

1451'

1451'

23:00

1451'

1451'

23:30

1451'

1524'

00:00

1522'

1525'

00:30

1542'

1563'

01:00

1587'

CYCLE PUMPS TO GET ESD

CYCLE PUMPS FOR SECOND ESD

PREPARE FOR FIT

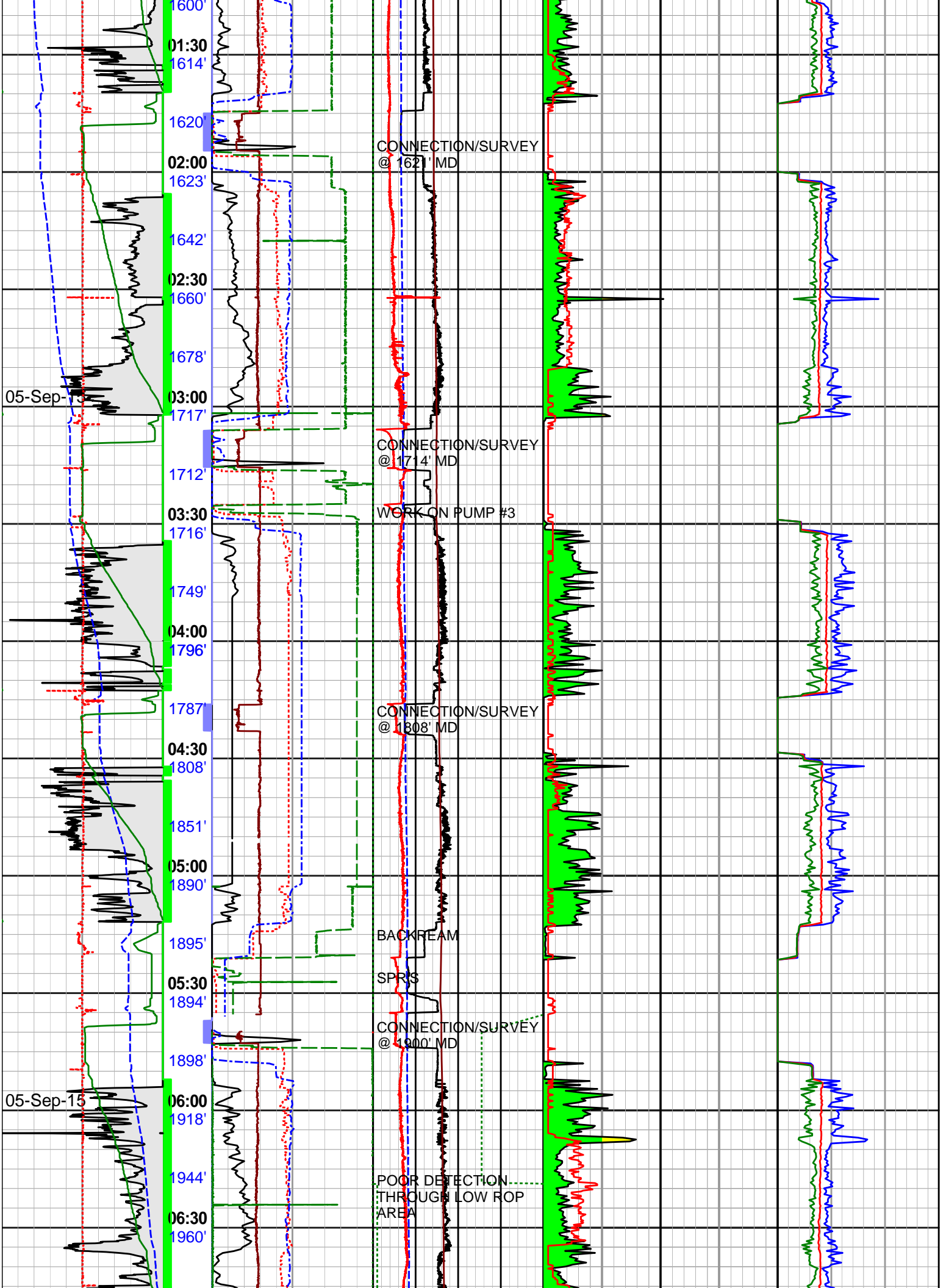
FIT TO 12.6 PPG

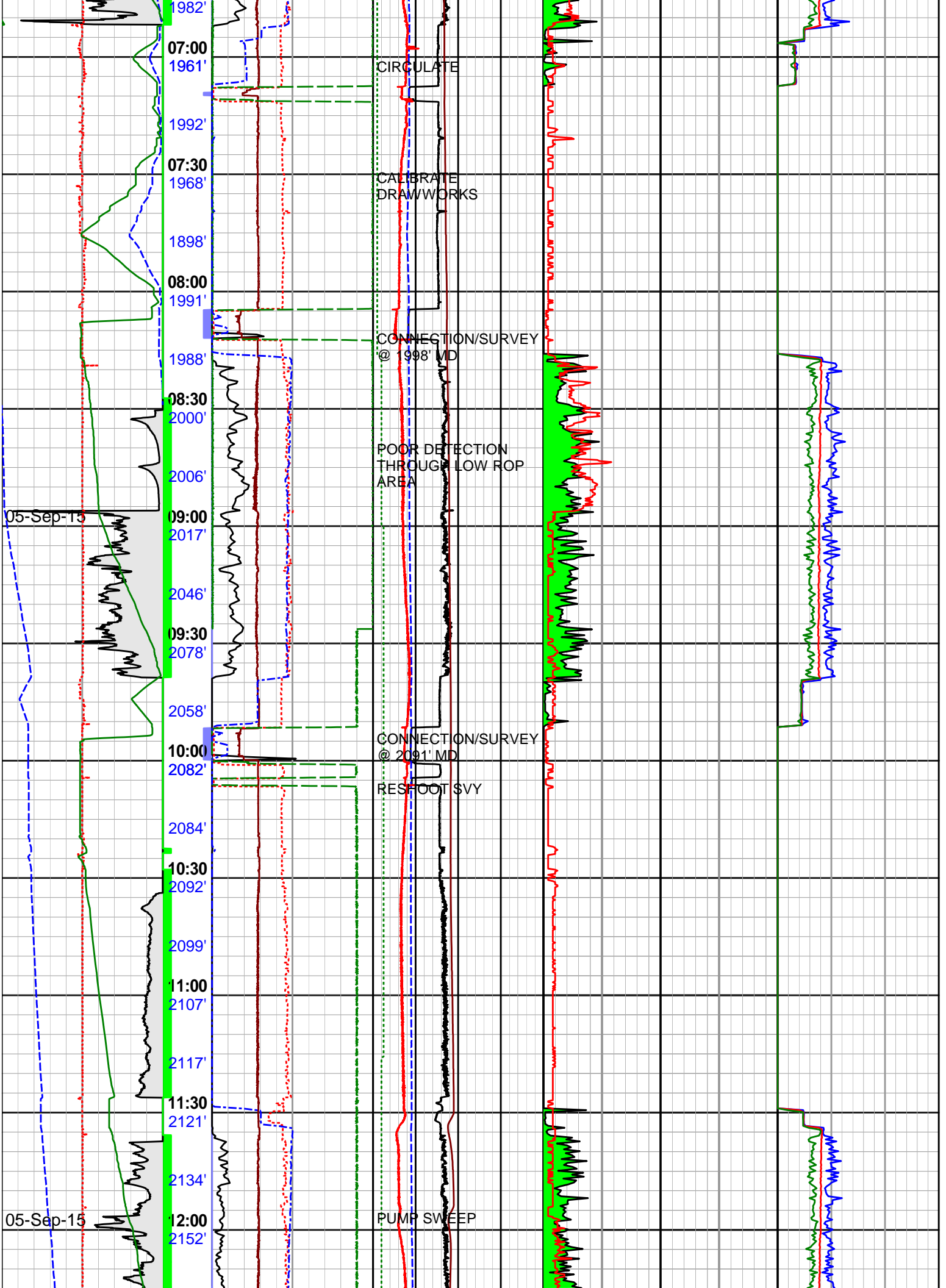
RETURN TO DRILLING

CONNECTION/SURVEY @ 1529' MD

04-Sep-15

05-Sep-15





CIRCULATE

CALIBRATE
DRAWWORKS

CONNECTION/SURVEY
@ 1998' MD

POOR DETECTION
THROUGH LOW ROP
AREA

CONNECTION/SURVEY
@ 2091' MD

RES FOOT SVY

PUMP SWEEP

05-Sep-15

05-Sep-15

1982'

07:00

1961'

1992'

07:30

1968'

1898'

08:00

1991'

1988'

08:30

2000'

2006'

09:00

2017'

2046'

09:30

2078'

2058'

10:00

2082'

2084'

10:30

2092'

2099'

11:00

2107'

2117'

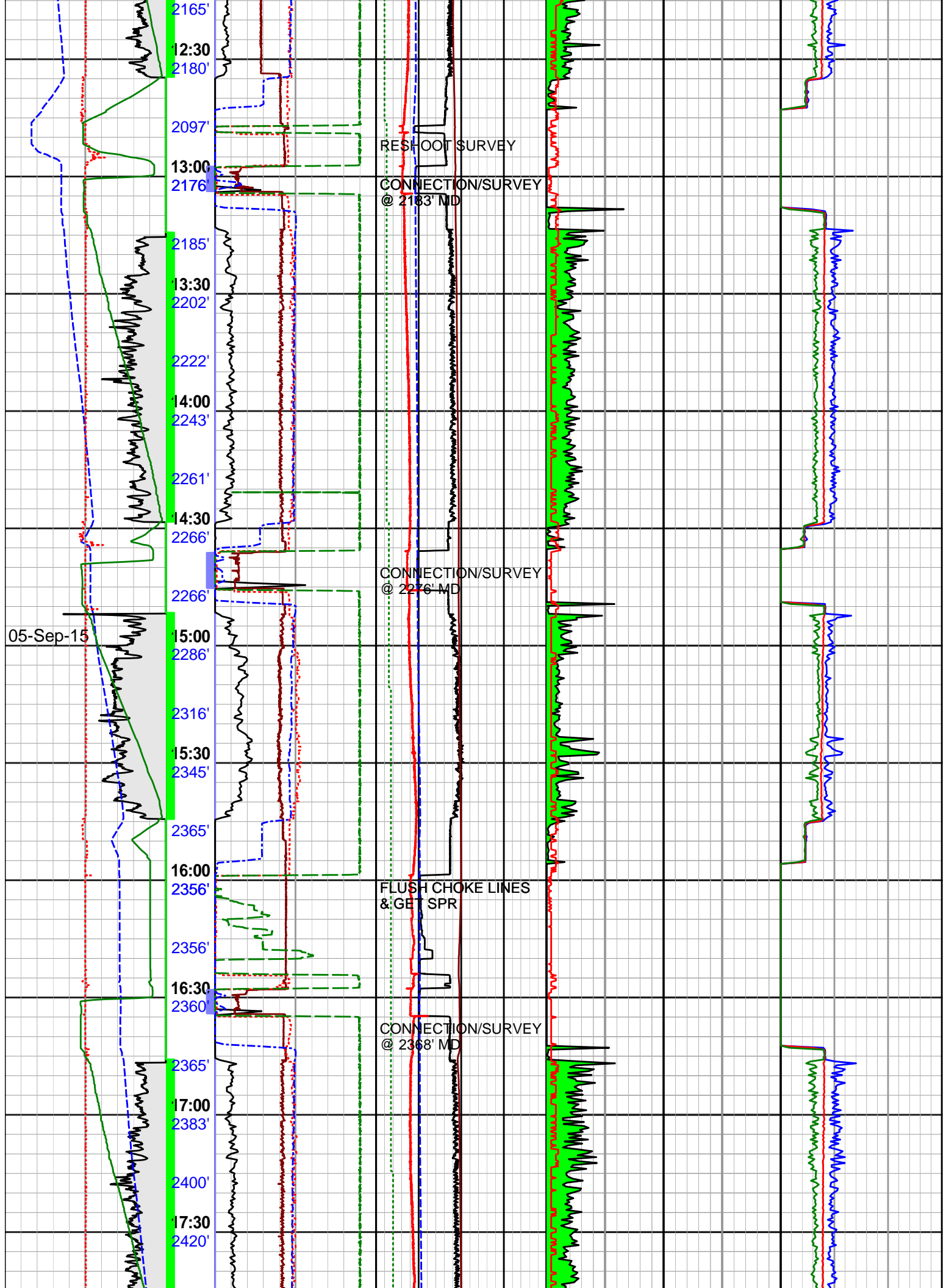
11:30

2121'

2134'

12:00

2152'



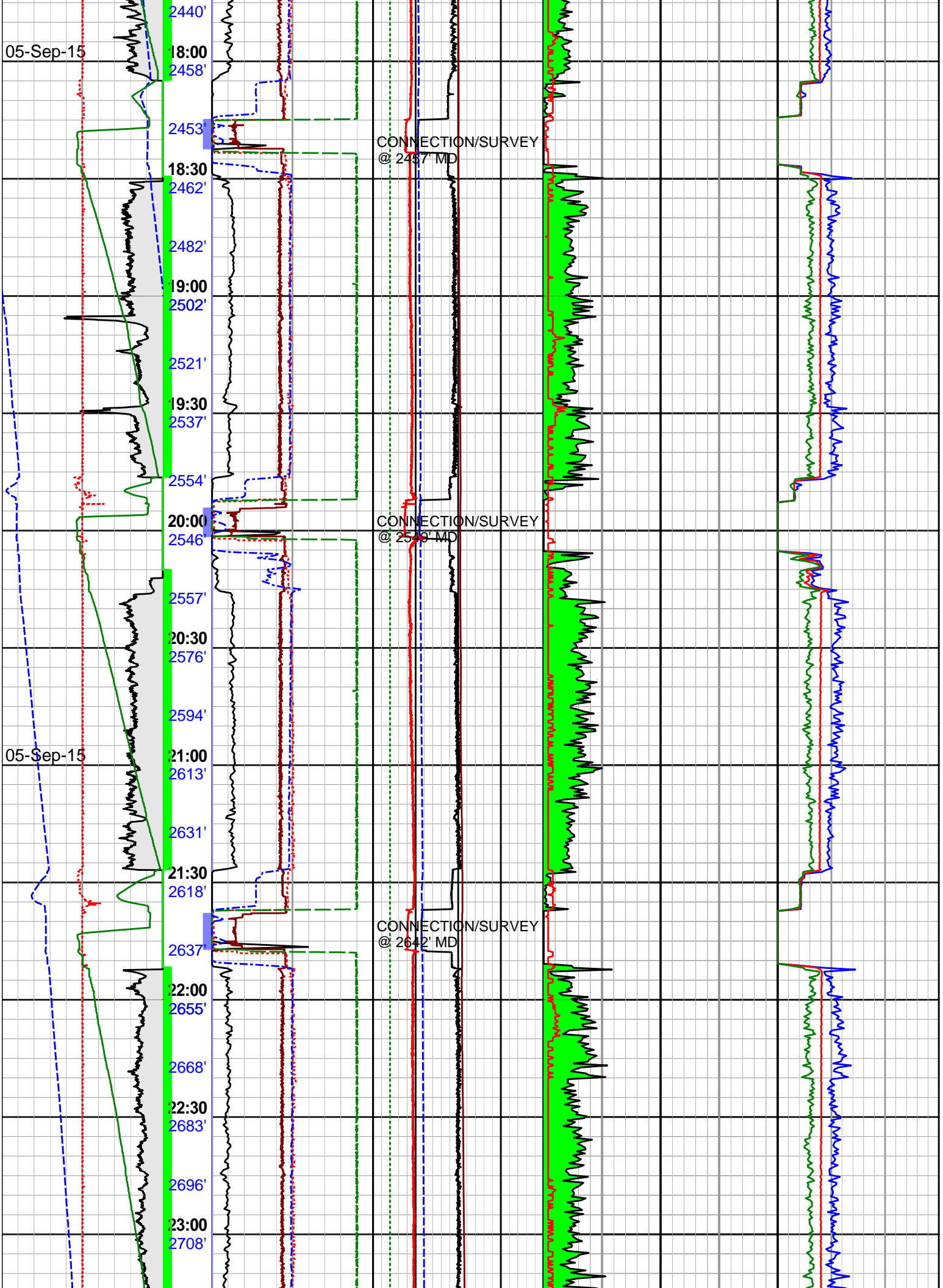
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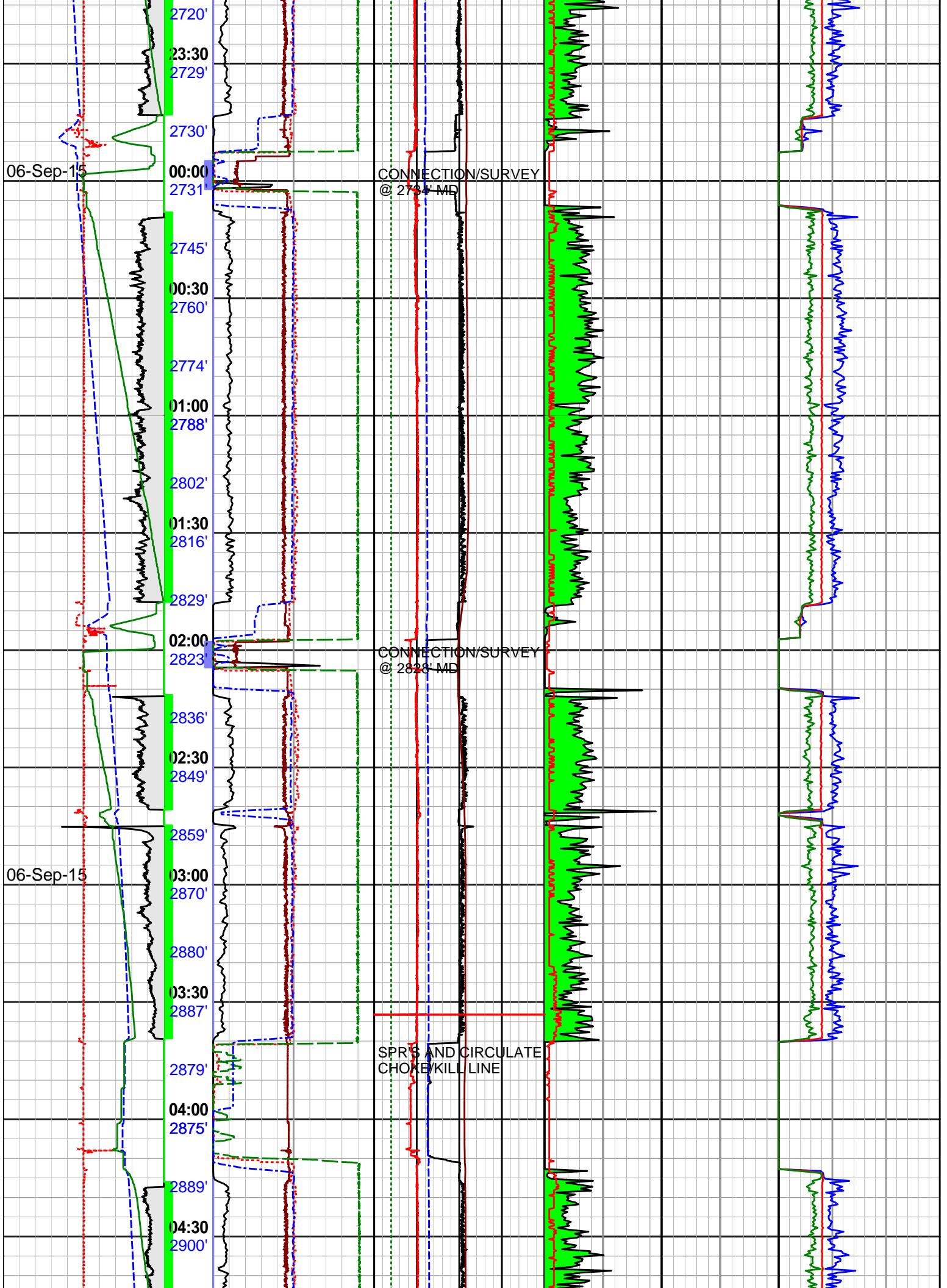
2440'
18:00
2458'
2453'
18:30
2462'
2482'
19:00
2502'
2521'
19:30
2537'
2554'
20:00
2546'
2557'
20:30
2576'
2594'
05-Sep-15
21:00
2613'
2631'
21:30
2618'
2637'
22:00
2655'
2668'
22:30
2683'
2696'
23:00
2708'

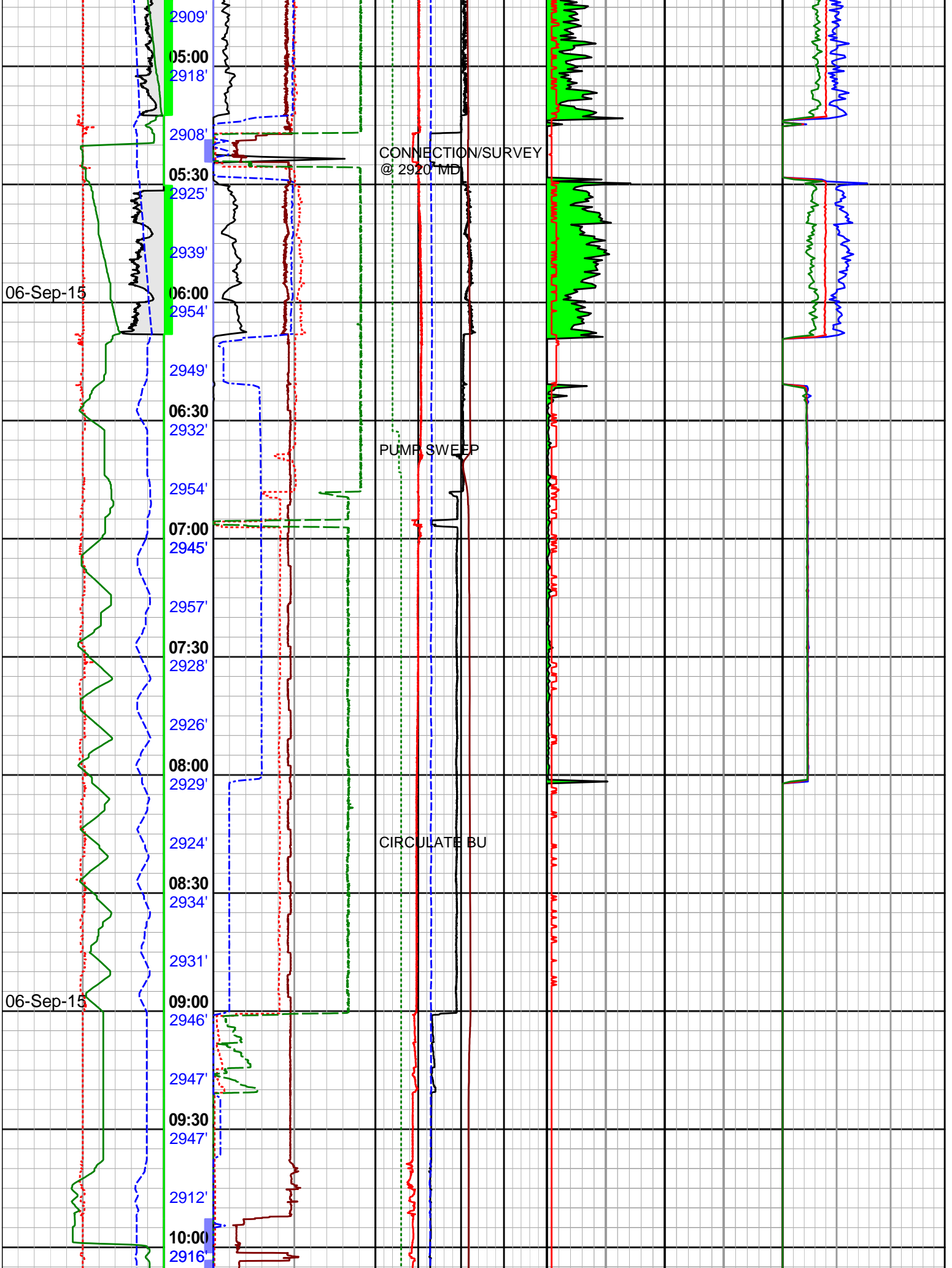
CONNECTION/SURVEY
@ 2457' MD

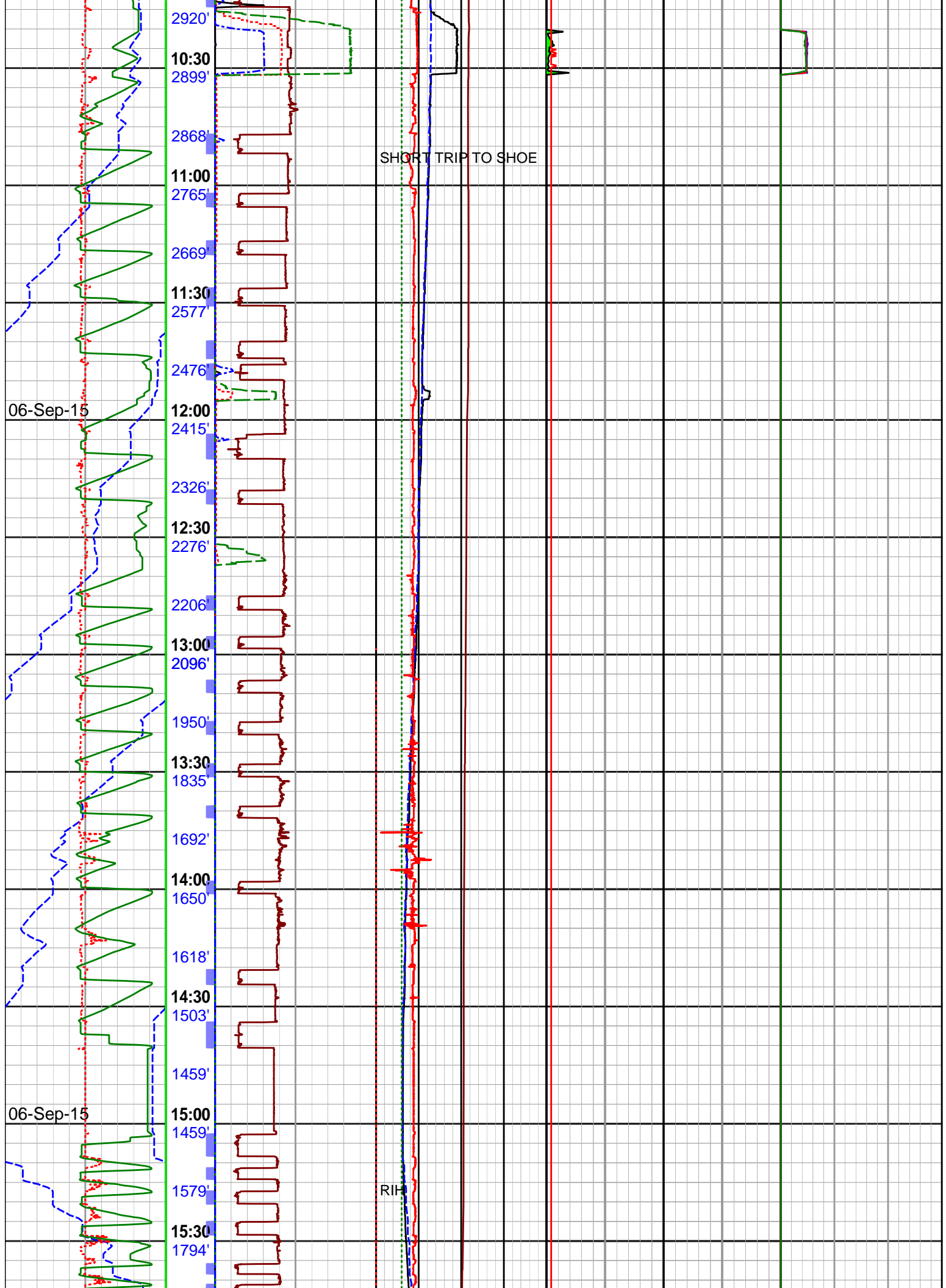
CONNECTION/SURVEY
@ 2546' MD

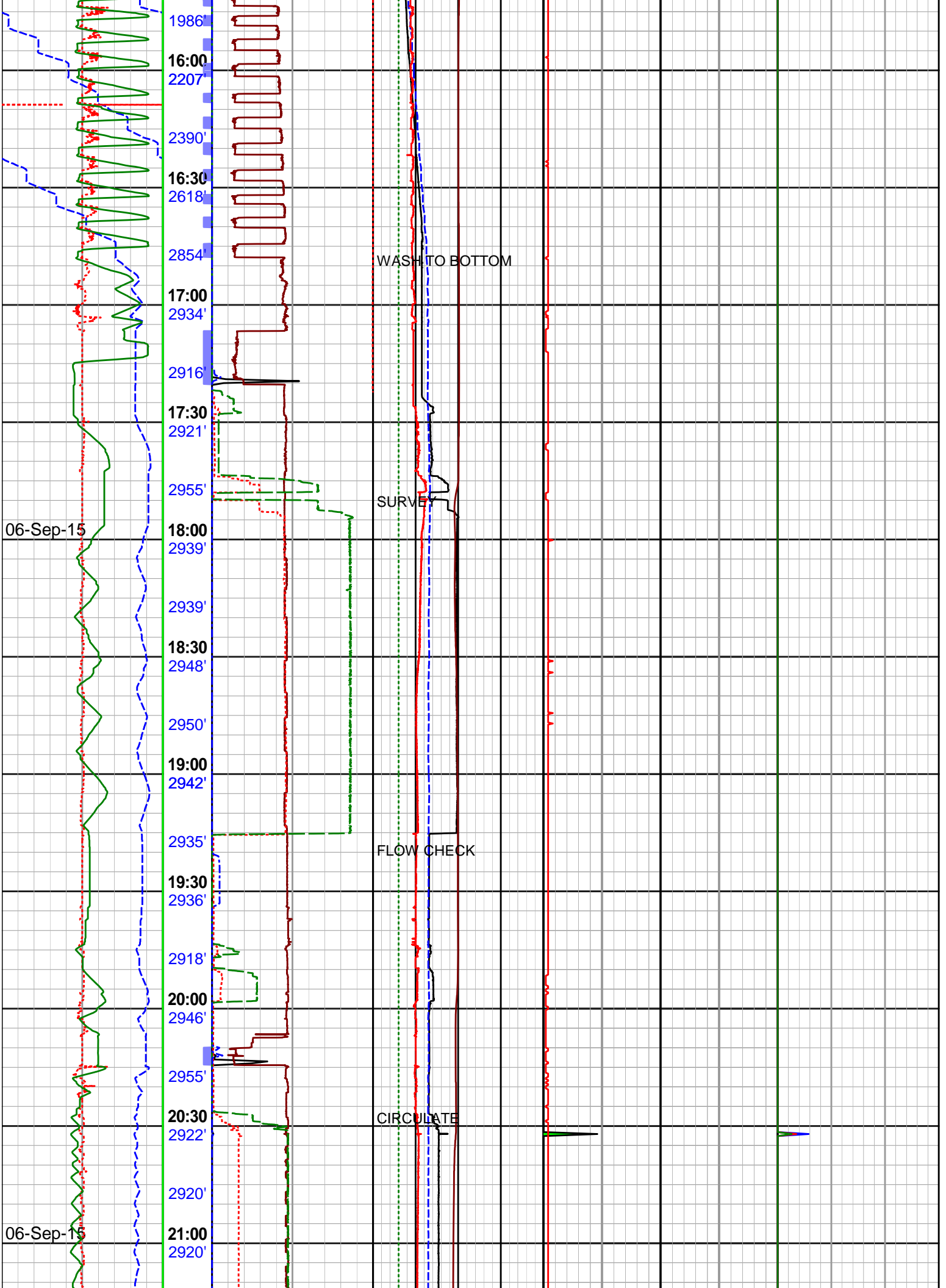
CONNECTION/SURVEY
@ 2642' MD

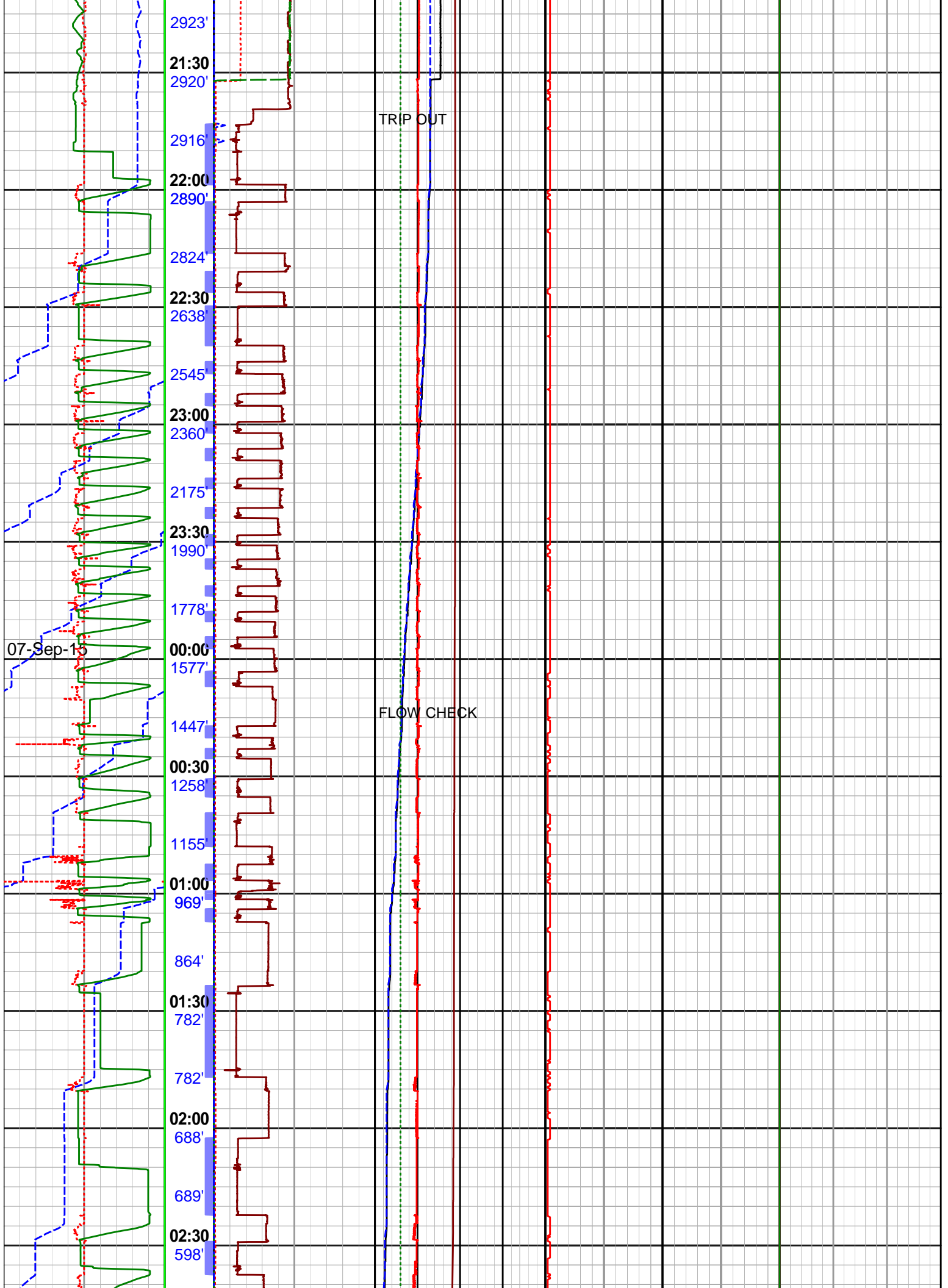


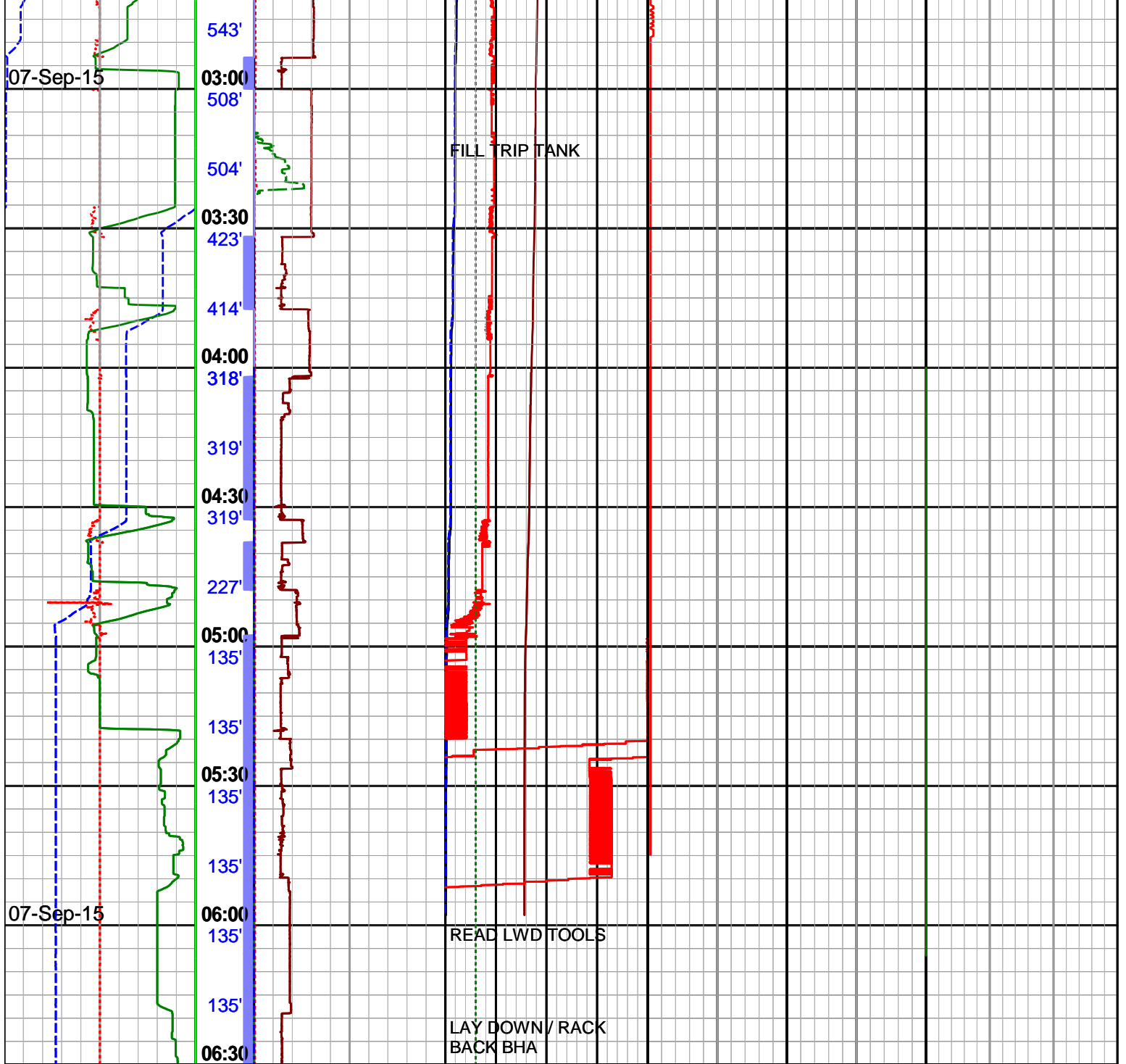












Running Speed -250 250 feet per min	On Btm In Slips Status	SPP Avg 0 5K	PWD Annular EMW 10 11 12 13 14	DDSr Avg X 0 5 10	DDSr Peak X 0 50 100	DDSr RPM Mean 0 100 200 300
		lbs / in2 gauge	lbs per gal	g	g	rev per min
Block Position 205 -5 feet	On Btm In Slips Status	Flow In 0 1K	Dens Mud In 10 11 12 13 14	DDSr Avg Y 10 5 0	DDSr Peak Y 100 50 0 0	DDSr RPM Min 0 100 200 300
		gallon per min	lbs per gal	g	g	rev per min
Bit Depth 0 500 feet	On Btm	RPM Surface Avg 0 200	PWD Annular Pressure 0 1.25K 2.5K 3.75K 5K	DDSr Avg Z -5 0 5	DDSr Peak Z -50 0 50	DDSr RPM Max 0 100 200 300
		rev per min	lbs / in2 gauge	g	g	rev per min
ROP Avg 400 0 feet per hr	On Btm	Torque Abs 0 25K	PWD Internal Pressure 0 1.25K 2.5K 3.75K 5K	DDSr Stick Slip 0 100 200 300 400		
		foot-pound	lbs / in2 gauge	< 100% 100- 150- 150% 200% > 200%		
		Hookload Avg 0 400	PWD Ann Gauge Temp 0 50 100 150 200	Low	Med	High
		kilo pounds	fahrenheit	Full Stall		

DIRECTIONAL SURVEY REPORT

Shell Gulf of Mexico Inc.
 OCS-Y-2321 BJ001 ST00BP00
 Posey 6912
 Alaska
 USA
 AK-XX-0901604700
 Final Survey is projected to well TD

<i>Measured Depth (feet)</i>	<i>Inclination (degrees)</i>	<i>Direction (degrees)</i>	<i>Vertical Depth (feet)</i>	<i>Latitude (feet)</i>	<i>Departure (feet)</i>	<i>Vertical Section (feet)</i>	<i>Dogleg (deg/100ft)</i>
0.00	0.00	0.00	0.00	0.00 N	0.00 E	0.00	TIE-IN
220.00	0.00	0.00	220.00	0.00 N	0.00 E	0.00	0.00
320.88	0.51	129.60	320.88	0.29 S	0.35 E	-0.29	0.50
406.77	0.31	89.93	406.76	0.53 S	0.88 E	-0.53	0.39
495.25	0.99	122.22	495.24	0.93 S	1.76 E	-0.93	0.84
590.43	0.31	82.72	590.41	1.34 S	2.71 E	-1.34	0.81
684.05	0.64	327.24	684.03	0.87 S	2.68 E	-0.87	0.88
866.10	0.28	101.20	866.08	0.09 S	2.55 E	-0.09	0.47
957.99	0.00	269.46	957.97	0.13 S	2.77 E	-0.13	0.30
1051.65	0.14	176.72	1051.63	0.24 S	2.78 E	-0.24	0.15
1144.54	0.26	120.65	1144.52	0.46 S	2.97 E	-0.46	0.23
1235.66	0.41	134.11	1235.63	0.80 S	3.38 E	-0.80	0.19
1328.60	0.51	59.75	1328.58	0.83 S	3.98 E	-0.83	0.61
1378.50	0.25	111.62	1378.48	0.76 S	4.27 E	-0.76	0.81
1540.18	0.12	50.83	1540.15	0.78 S	4.74 E	-0.78	0.14
1723.74	0.39	34.99	1723.71	0.14 S	5.26 E	-0.14	0.15
1818.58	0.58	50.01	1818.55	0.43 N	5.81 E	0.43	0.24
2003.18	1.06	39.81	2003.12	2.35 N	7.62 E	2.35	0.27
2095.93	0.87	35.51	2095.87	3.57 N	8.57 E	3.57	0.22
2186.15	0.69	72.12	2186.07	4.30 N	9.49 E	4.30	0.57
2373.34	0.75	76.36	2373.25	4.93 N	11.76 E	4.93	0.04
2463.93	0.78	75.65	2463.83	5.23 N	12.93 E	5.23	0.03
2555.30	0.79	70.25	2555.19	5.59 N	14.13 E	5.59	0.08
2646.22	0.79	76.51	2646.11	5.95 N	15.33 E	5.95	0.10
2743.03	0.70	74.08	2742.91	6.27 N	16.55 E	6.27	0.10
2837.42	0.74	67.59	2837.29	6.66 N	17.68 E	6.66	0.10
2875.38	0.64	69.95	2875.25	6.83 N	18.10 E	6.83	0.27
2978.31	0.74	64.69	2978.17	7.31 N	19.25 E	7.31	0.11
3074.55	0.58	52.33	3074.40	7.88 N	20.20 E	7.88	0.22
3169.04	0.67	47.05	3168.89	8.55 N	20.99 E	8.55	0.11
3258.93	0.77	27.36	3258.77	9.44 N	21.65 E	9.44	0.30
3351.80	0.94	33.05	3351.63	10.64 N	22.35 E	10.64	0.21
3445.40	0.89	33.34	3445.22	11.90 N	23.18 E	11.90	0.06
3537.90	0.88	39.68	3537.71	13.05 N	24.03 E	13.05	0.11
3630.29	0.86	29.57	3630.09	14.20 N	24.82 E	14.20	0.17
3724.13	1.05	46.97	3723.91	15.40 N	25.80 E	15.40	0.37
3815.47	1.16	37.46	3815.23	16.71 N	26.98 E	16.71	0.24
3909.95	1.11	27.77	3909.70	18.28 N	27.99 E	18.28	0.21
4001.96	1.54	18.87	4001.69	20.24 N	28.80 E	20.24	0.52
4095.18	1.55	21.22	4094.87	22.60 N	29.67 E	22.60	0.07
4189.17	1.52	19.27	4188.83	24.97 N	30.54 E	24.97	0.06
4280.67	1.73	13.84	4280.29	27.46 N	31.27 E	27.46	0.28
4373.26	2.11	22.24	4372.83	30.39 N	32.25 E	30.39	0.51
4465.71	1.69	19.56	4465.23	33.26 N	33.35 E	33.26	0.46
4559.04	2.02	19.56	4558.51	36.11 N	34.37 E	36.11	0.35
4651.17	2.19	23.91	4650.58	39.24 N	35.62 E	39.24	0.25
4743.27	2.64	25.07	4742.59	42.77 N	37.23 E	42.77	0.49
4836.87	3.09	32.03	4836.08	46.87 N	39.49 E	46.87	0.61
4929.20	3.15	34.87	4928.26	51.06 N	42.26 E	51.06	0.18
5021.52	3.28	37.85	5020.45	55.22 N	45.33 E	55.22	0.23
5113.59	3.34	39.69	5112.36	59.37 N	48.66 E	59.37	0.13
5206.14	3.59	47.76	5204.74	63.39 N	52.52 E	63.39	0.59
5299.05	3.70	48.27	5297.46	67.34 N	56.92 E	67.34	0.12
5364.19	3.45	52.11	5362.48	69.95 N	60.04 E	69.95	0.54
5429.81	3.65	46.91	5427.97	72.59 N	63.12 E	72.59	0.58
5518.31	3.73	45.18	5516.29	76.55 N	67.22 E	76.55	0.15
5612.70	3.58	42.26	5610.48	80.90 N	71.39 E	80.90	0.25
5704.09	3.56	42.97	5701.70	85.09 N	75.24 E	85.09	0.06

5795.19	3.47	41.51	5792.62	89.22 N	79.00 E	89.22	0.13
5889.32	3.48	42.48	5886.58	93.46 N	82.82 E	93.46	0.06
5980.70	3.42	42.67	5977.80	97.52 N	86.54 E	97.52	0.07
6075.07	3.43	41.69	6072.00	101.69 N	90.33 E	101.69	0.06
6167.81	3.55	39.12	6164.57	105.99 N	93.98 E	105.99	0.21
6259.59	3.53	39.52	6256.17	110.37 N	97.57 E	110.37	0.03
6346.61	3.75	37.26	6343.02	114.70 N	100.99 E	114.70	0.30
6445.34	3.99	34.54	6441.52	120.10 N	104.89 E	120.10	0.31
6536.48	3.96	35.37	6532.44	125.27 N	108.51 E	125.27	0.07
6628.63	3.92	37.01	6624.37	130.38 N	112.25 E	130.38	0.13
6721.62	3.89	35.41	6717.15	135.49 N	115.99 E	135.49	0.12
6745.05	3.99	35.86	6740.52	136.80 N	116.93 E	136.80	0.46
6800.00	3.99	35.86	6795.34	139.90 N	119.17 E	139.90	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 0.00 DEGREES (GRID)
A TOTAL CORRECTION OF 10.95 DEG FROM MAGNETIC NORTH TO GRID NORTH HAS BEEN APPLIED**

**HORIZONTAL DISPLACEMENT IS RELATIVE TO THE WELL HEAD.
HORIZONTAL DISPLACEMENT(CLOSURE) AT 6800.00 FEET
IS 183.78 FEET ALONG 40.42 DEGREES (GRID)**

**Map System: NAD 83 UTM Zones
Geo Datum: North American Datum of 1983
Map Zone: Universal Transverse Mercator Zone 03N**