



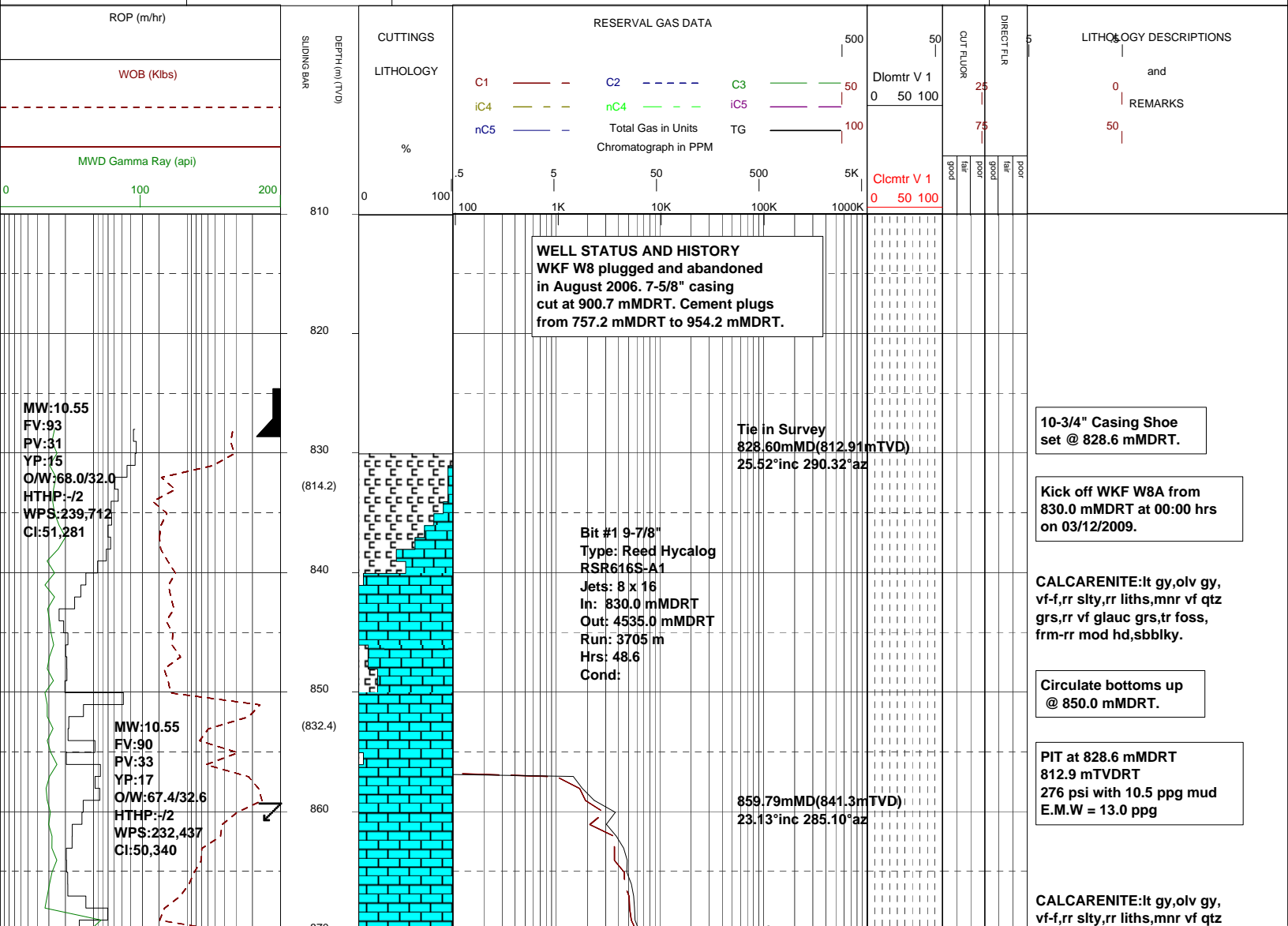
# MASTERLOG

## WKF W8A



GENERAL	SURFACE POSITION	HOLE / CASING INFO	DATE / DEPTH	ENGINEERS
Country : AUSTRALIA	Longitude :148°6'19.940" E		Kick off Date: 02/12/2009	Gareth Munro
Permit : VIC / L5	Latitude : 38°35'34.711" S	9-7/8" Hole to 4535.0 mMDRT	Total Depth Date: 08/12/09	Phil Rady
Field : West Kingfish	MGA Co-ord X :596277.93 mE		Total Depth: 4535.00 mMDRT	Dan Dennis
Basin : GIPPSLAND	MGA Co-ord Y : 5727810.37 mN	10-3/4" Surface Csg at 828.60 mMDRT	True Vertical Depth: 2455.57 mMDRT	Kepa O'Reilly
Well Type :DEVELOPMENT	RT to MSL : 41.0 m		Log Scale : 1/ 500	Adam Sullivan
Rig Name : Nabors 175	RT to Sea Bed : 120.0 m			

ABBREVIATIONS		LITHOLOGY LEGEND				ENGINEERING LEGEND	
MW	Mud Weight	Claystone	Marl	Bryozoa	Glauconite	Casing shoe	Sidewall core
FV	Funnel Viscosity	Siltstone	Limestone	Radiolariae	Pyrite	Casing top	Core
PV	Plastic Viscosity	Sandstone	Dolomite	Echinoids		Survey	Mud gain
YP	Yield Point	Shale	Coal-lignite	Foraminiferae		RFT	Mud loss
O/W	Oil/Water Ratio	Conglomerate	Volcanics	Cement			
WPS	Aq. Phase Salinity						
HPHT	Fluid Loss						
CI	Chlorides						
Incl	Inclination						
Az	Azimuth						
WOB	Weight on Bit (klbs)						
RPM	Rotations Per Min						
FLW	Flow Rate (gpm)						
SPP	Pump Pressure (psi)						
RR	Re-Run Bit						
TG	Trip Gas						
CG	Connection Gas						
BG	Background Gas						
DGP	Drilled Gas Peak						
MM	Mud Motor						



grs,rr vf glauc grs,tr foss,  
frm-rr mod hd,sbbiky.

Drill with NAF Accolade  
Mud System.

CALCARENITE:med gy-  
olv gy,slty,tr liths,tr vf qtz  
grs,tr vf calc grs,tr carb  
spks,sft-frm,sbbiky.

CALCARENITE:med gy-  
olv gy,slty,tr liths,tr vf qtz  
grs,tr vf calc grs,tr carb  
spks,sft-frm,sbbiky.

CALCARENITE:med gy-  
olv gy,vf-f,wl srt,slty,com  
lt gy arg mtx,tr liths,tr vf  
qtz grs,tr vf calc grs,tr carb  
spks,sft-frm,sbbiky.

CALCARENITE:med gy-  
olv gy,vf-f,wl srt,slty,com  
lt gy arg mtx,tr liths,tr vf  
qtz grs,tr vf calc grs,tr carb  
spks,sft-frm,sbbiky.

870  
(850.6)  
880  
890  
(868.7)  
900  
910  
(886.2)  
920  
930  
(903.2)  
940  
950  
(919.9)  
960  
970  
(935.8)  
980  
990  
(950.9)  
1000

100 / Tr  
889.20mMD(868.0mTVD)  
27.16°inc 278.90°az  
100 / Tr  
917.81mMD(893.0mTVD)  
30.68°inc 275.03°az  
947.16mMD(917.7mTVD)  
34.92°inc 274.76°az  
976.57mMD(941.0mTVD)  
39.90°inc 275.66°az  
100 / Tr  
1005.73mMD(962.5mTVD)  
44.96°inc 276.42°az

WOB:8-17klbs  
RPM:80-120  
SPP:1730psi  
FLW:670gpm

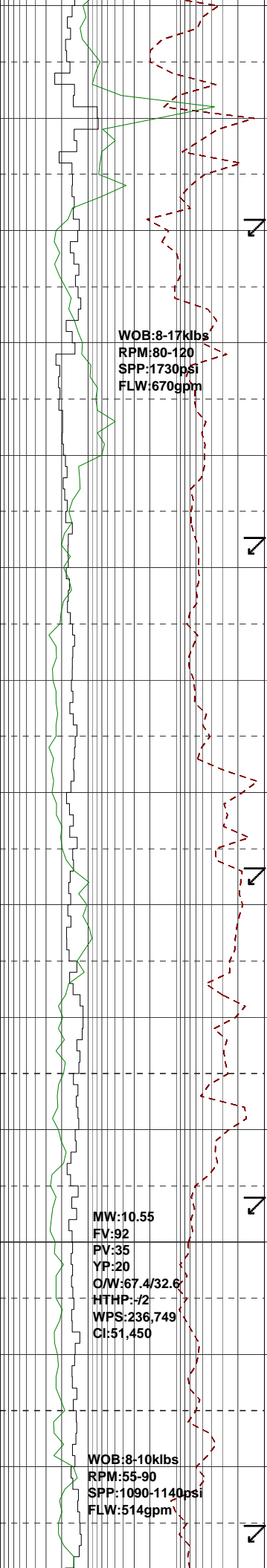
MW:10.55  
FV:92  
PV:35  
YP:20  
O/W:67.4/32.6  
HTHP:-/2  
WPS:236,749  
CI:51,450

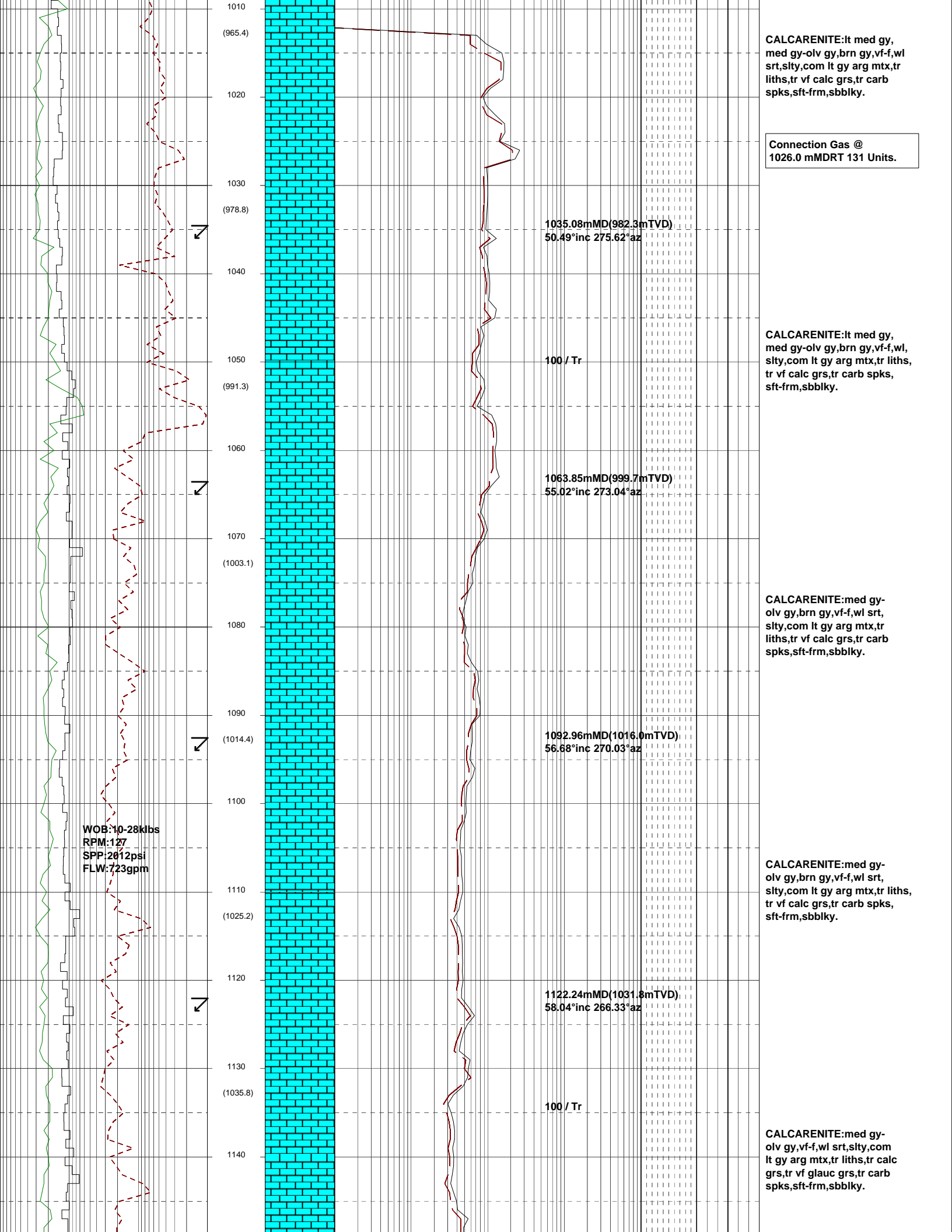
WOB:8-10klbs  
RPM:55-90  
SPP:1090-1140psi  
FLW:514gpm

Cleaning mud trough GZG  
probe removed from flowline.

Cleaning mud trough GZG  
probe removed from flowline.

Cleaning mud trough GZG  
probe removed from flowline.





**CALCARENITE:**lt med gy, med gy-olv gy,brn gy,vf-f,wl srt,slty,com lt gy arg mtx,tr liths,tr vf calc grs,tr carb spks,sft-frm,sbblky.

Connection Gas @  
1026.0 mMDRT 131 Units.

1035.08mMD(982.3mTVD)  
50.49°inc 275.62°az

100 / Tr

**CALCARENITE:**lt med gy, med gy-olv gy,brn gy,vf-f,wl, slty,com lt gy arg mtx,tr liths, tr vf calc grs,tr carb spks, sft-frm,sbblky.

1063.85mMD(999.7mTVD)  
55.02°inc 273.04°az

**CALCARENITE:**med gy-olv gy,brn gy,vf-f,wl srt, slty,com lt gy arg mtx,tr liths,tr vf calc grs,tr carb spks,sft-frm,sbblky.

1092.96mMD(1016.0mTVD)  
56.68°inc 270.03°az

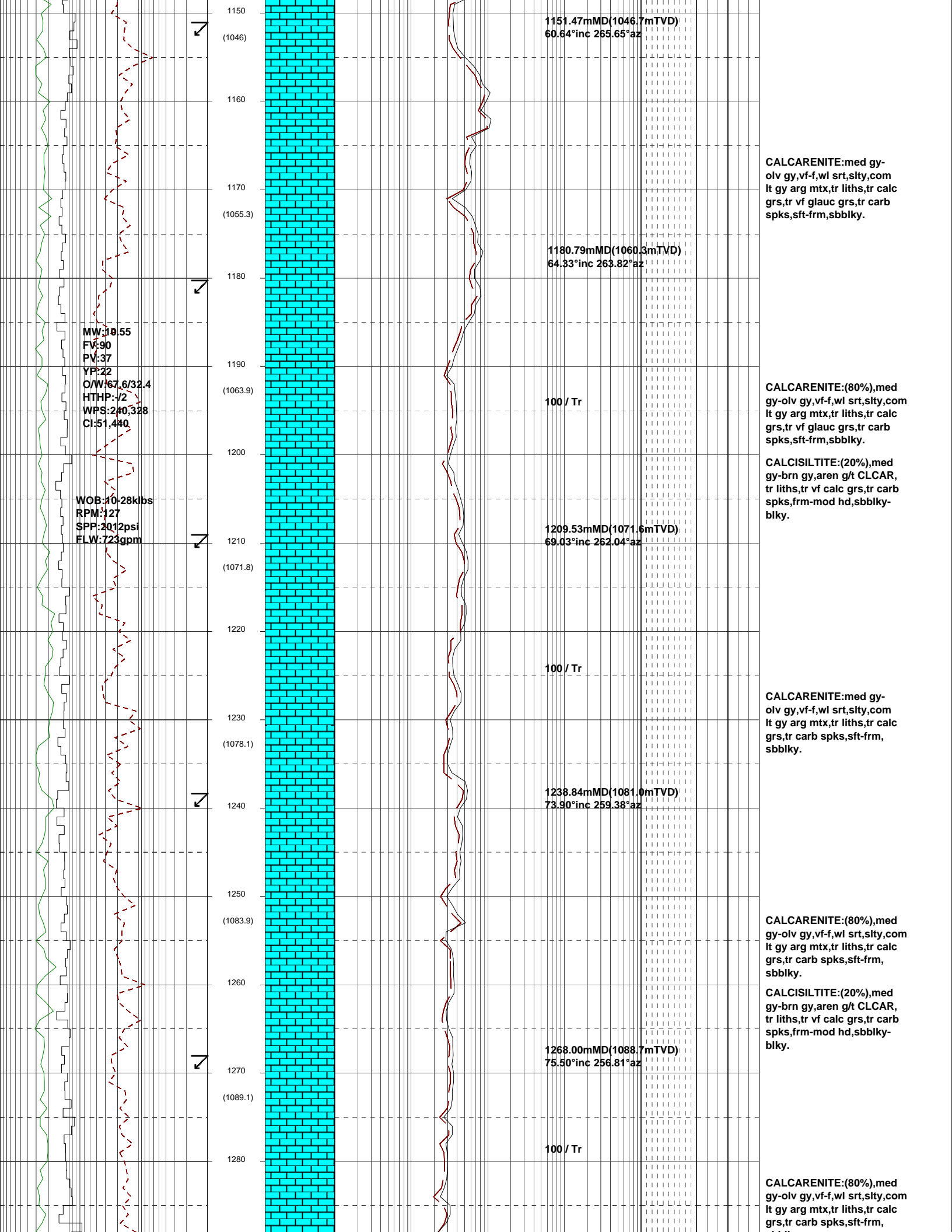
**CALCARENITE:**med gy-olv gy,brn gy,vf-f,wl srt, slty,com lt gy arg mtx,tr liths, tr vf calc grs,tr carb spks, sft-frm,sbblky.

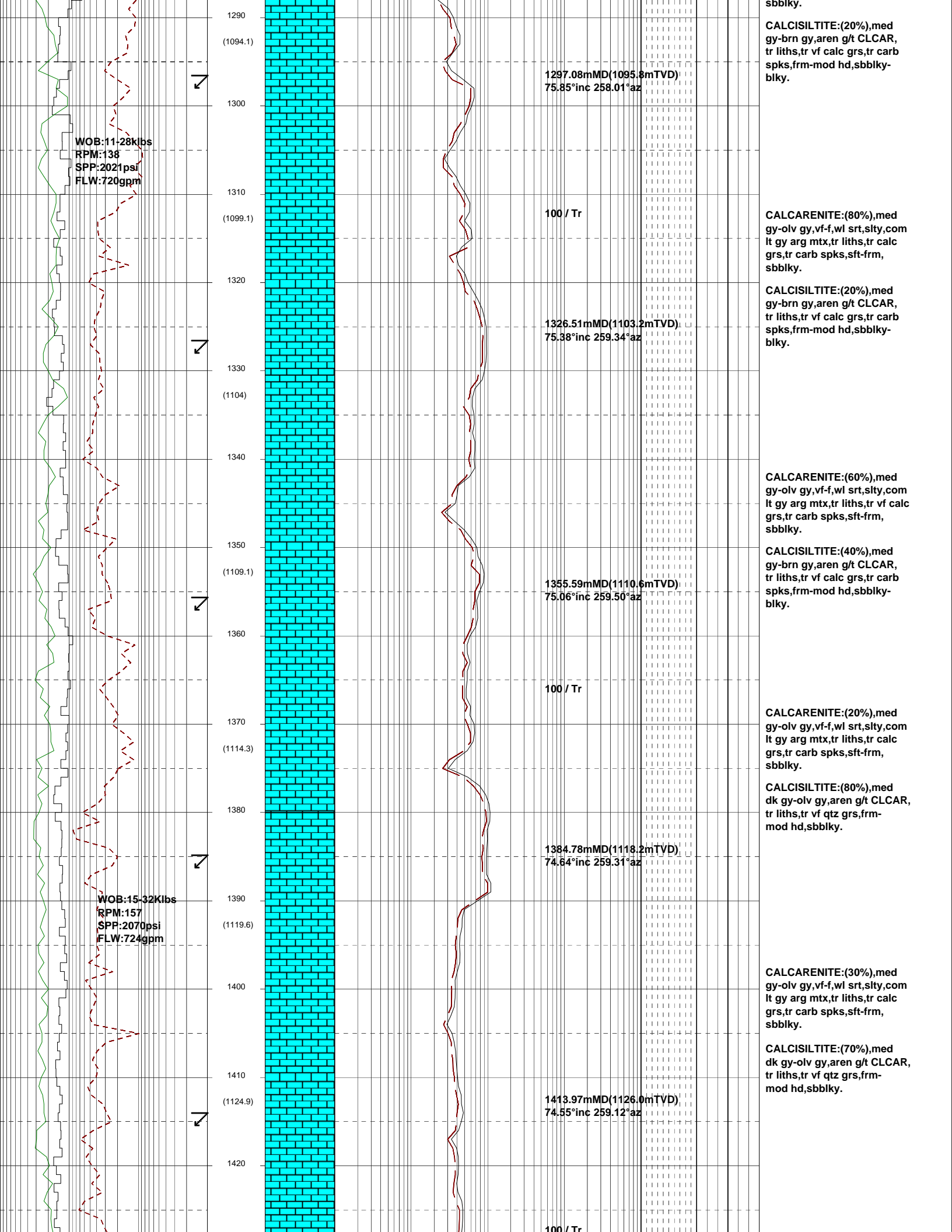
1122.24mMD(1031.8mTVD)  
58.04°inc 266.33°az

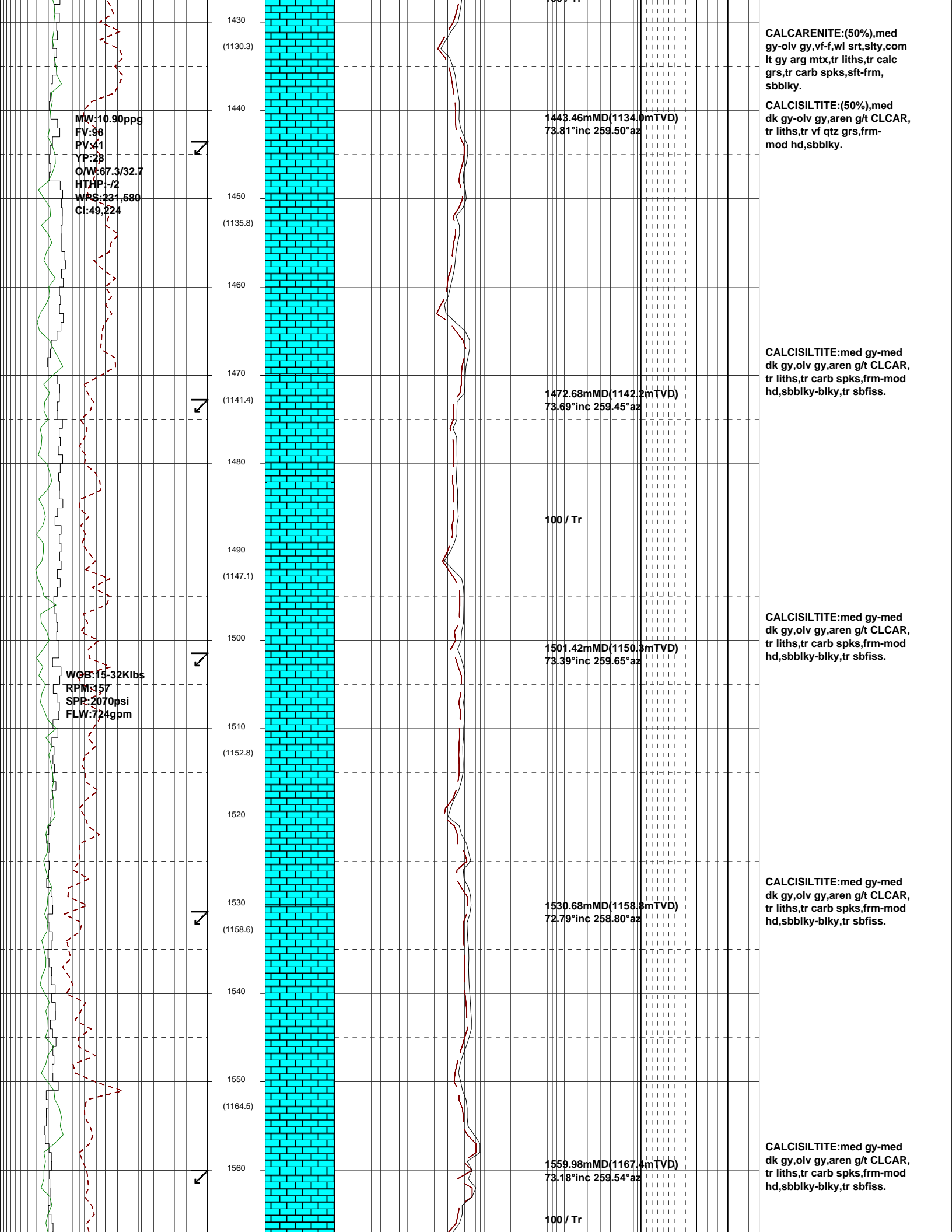
**CALCARENITE:**med gy-olv gy,vf-f,wl srt,slty,com lt gy arg mtx,tr liths,tr calc grs,tr vf glauc grs,tr carb spks,sft-frm,sbblky.

WOB:10-28klbs  
RPM:127  
SPP:2012psi  
FLW:723gpm

1010  
(965.4)  
1020  
(978.8)  
1030  
(991.3)  
1040  
1050  
1060  
1070  
(1003.1)  
1080  
1090  
(1014.4)  
1100  
1110  
(1025.2)  
1120  
1130  
(1035.8)  
1140







CALCARENITE:(50%),med gy-olv gy,vf-f,wl srt,slty,com lt gy arg mtx,tr liths,tr calc grs,tr carb spks,sft frm, sbbiky.

CALCISILTITE:(50%),med dk gy-olv gy,aren g/t CLCAR, tr liths,tr vf qtz grs,frm-mod hd,sbbiky.

CALCISILTITE:med gy-med dk gy,olv gy,aren g/t CLCAR, tr liths,tr carb spks,frm-mod hd,sbbiky-blky,tr sbfiss.

CALCISILTITE:med gy-med dk gy,olv gy,aren g/t CLCAR, tr liths,tr carb spks,frm-mod hd,sbbiky-blky,tr sbfiss.

CALCISILTITE:med gy-med dk gy,olv gy,aren g/t CLCAR, tr liths,tr carb spks,frm-mod hd,sbbiky-blky,tr sbfiss.

CALCISILTITE:med gy-med dk gy,olv gy,aren g/t CLCAR, tr liths,tr carb spks,frm-mod hd,sbbiky-blky,tr sbfiss.

MW:10.90ppg  
FV:98  
PV:41  
YP:28  
O/W:67.3/32.7  
HTHP:-/2  
WPS:231,580  
CI:49,224

WOB:15-32Klbs  
RPM:57  
SPR:2070psi  
FLW:724gpm

1443.46mMD(1134.0mTVD)  
73.81°inc 259.50°az

1472.68mMD(1142.2mTVD)  
73.69°inc 259.45°az

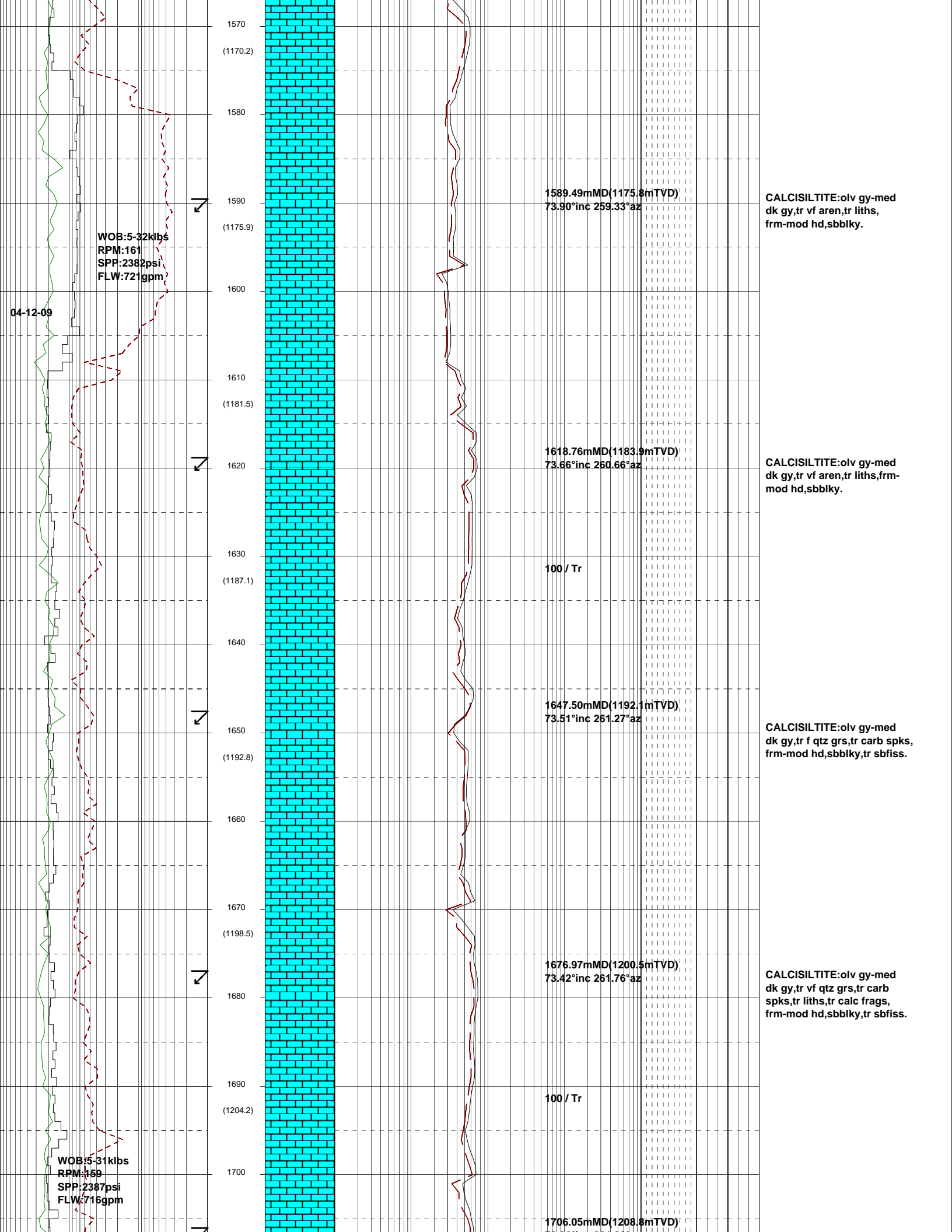
1501.42mMD(1150.3mTVD)  
73.39°inc 259.65°az

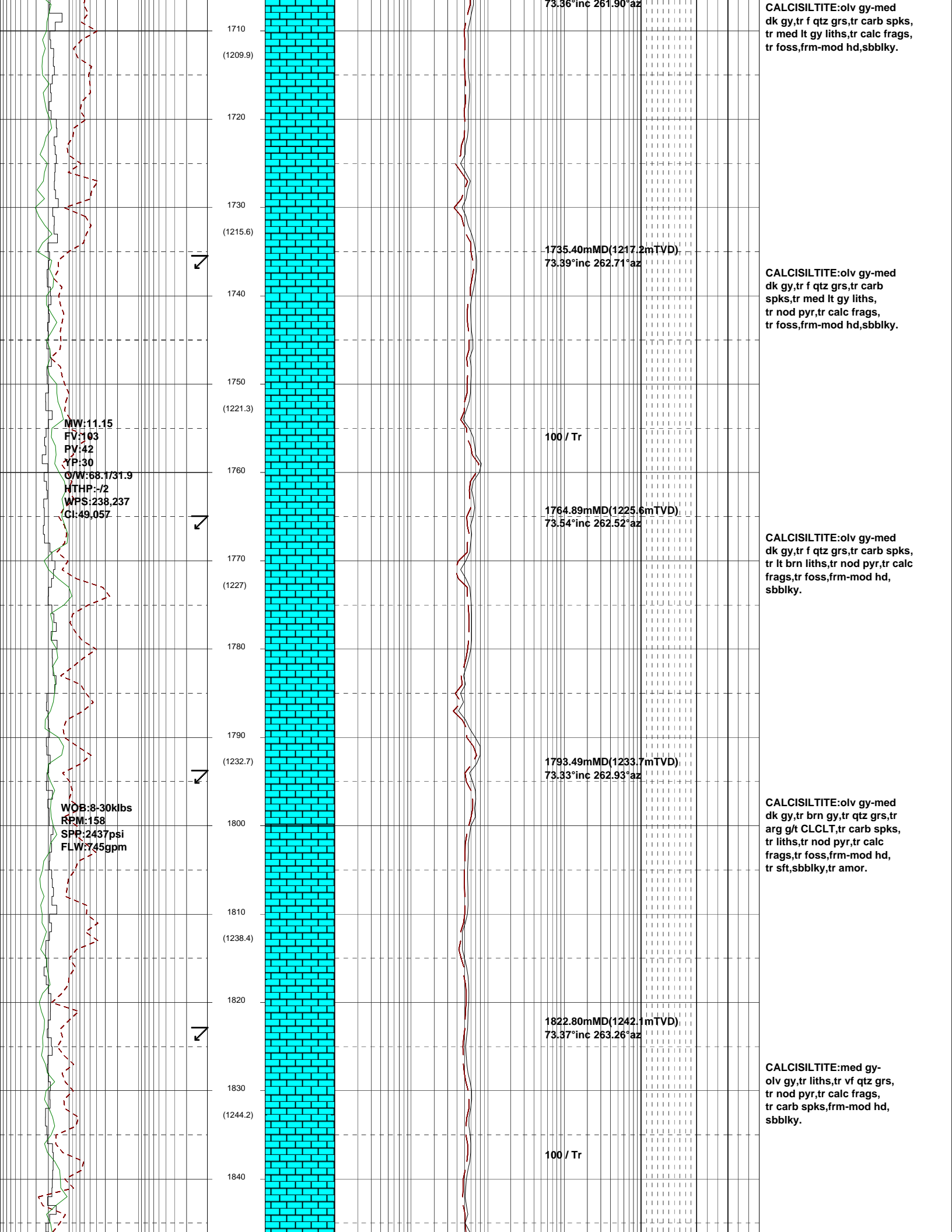
1530.68mMD(1158.8mTVD)  
72.79°inc 258.80°az

1559.98mMD(1167.4mTVD)  
73.18°inc 259.54°az

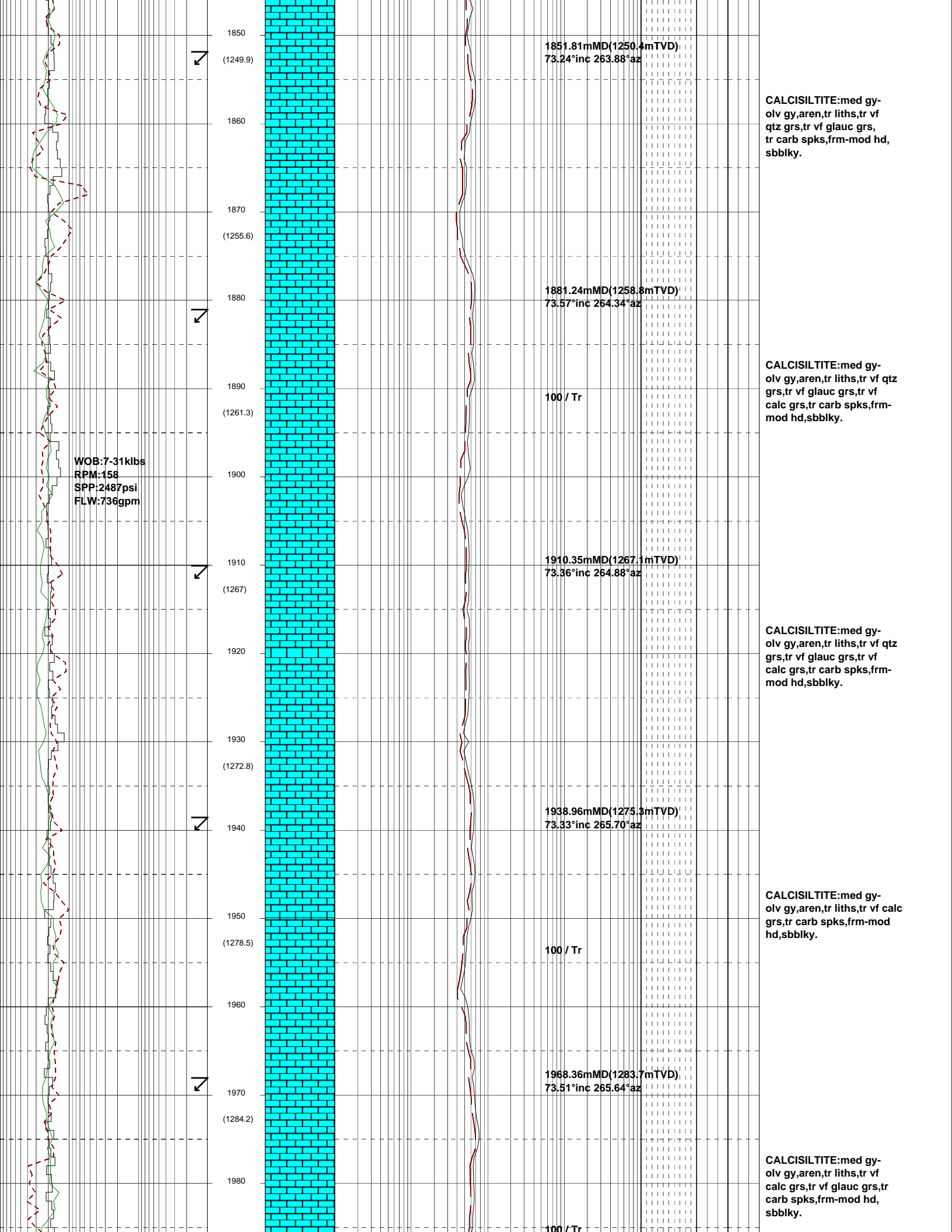
100 / Tr

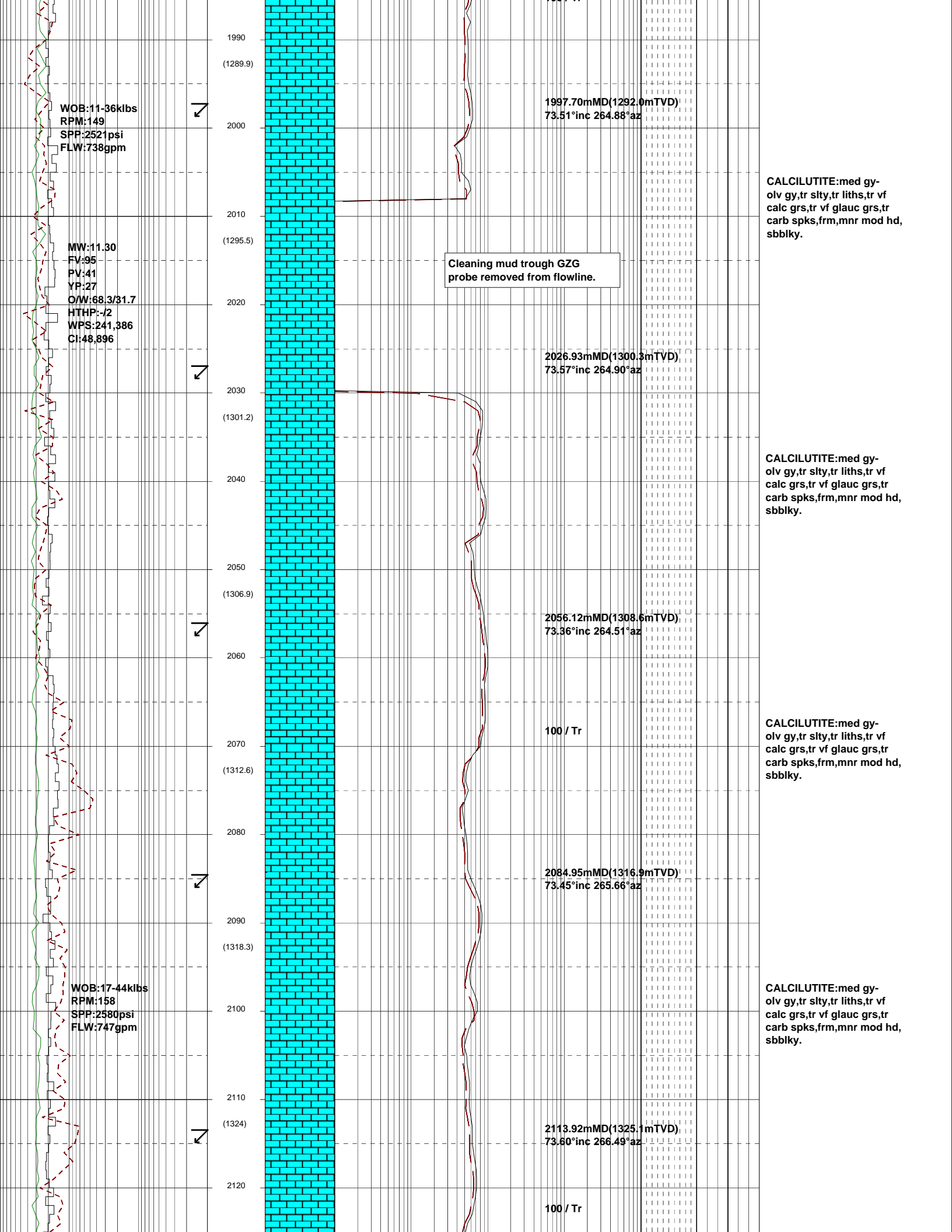
100 / Tr











WOB:11-36klbs  
RPM:149  
SPP:2521psi  
FLW:738gpm

MW:11.30  
FV:95  
PV:41  
YP:27  
O/W:68.3/31.7  
HTHP:-J2  
WPS:241,386  
CI:48,896

WOB:17-44klbs  
RPM:158  
SPP:2380psi  
FLW:747gpm

1990  
(1289.9)  
2000  
2010  
(1295.5)  
2020  
2030  
(1301.2)  
2040  
2050  
(1306.9)  
2060  
2070  
(1312.6)  
2080  
2090  
(1318.3)  
2100  
2110  
(1324)  
2120

1997.70mMD(1292.0mTVD)  
73.51°inc 264.88°az

Cleaning mud trough GZG  
probe removed from flowline.

2026.93mMD(1300.3mTVD)  
73.57°inc 264.90°az

2056.12mMD(1308.6mTVD)  
73.36°inc 264.51°az

100 / Tr

2084.95mMD(1316.9mTVD)  
73.45°inc 265.66°az

2113.92mMD(1325.1mTVD)  
73.60°inc 266.49°az

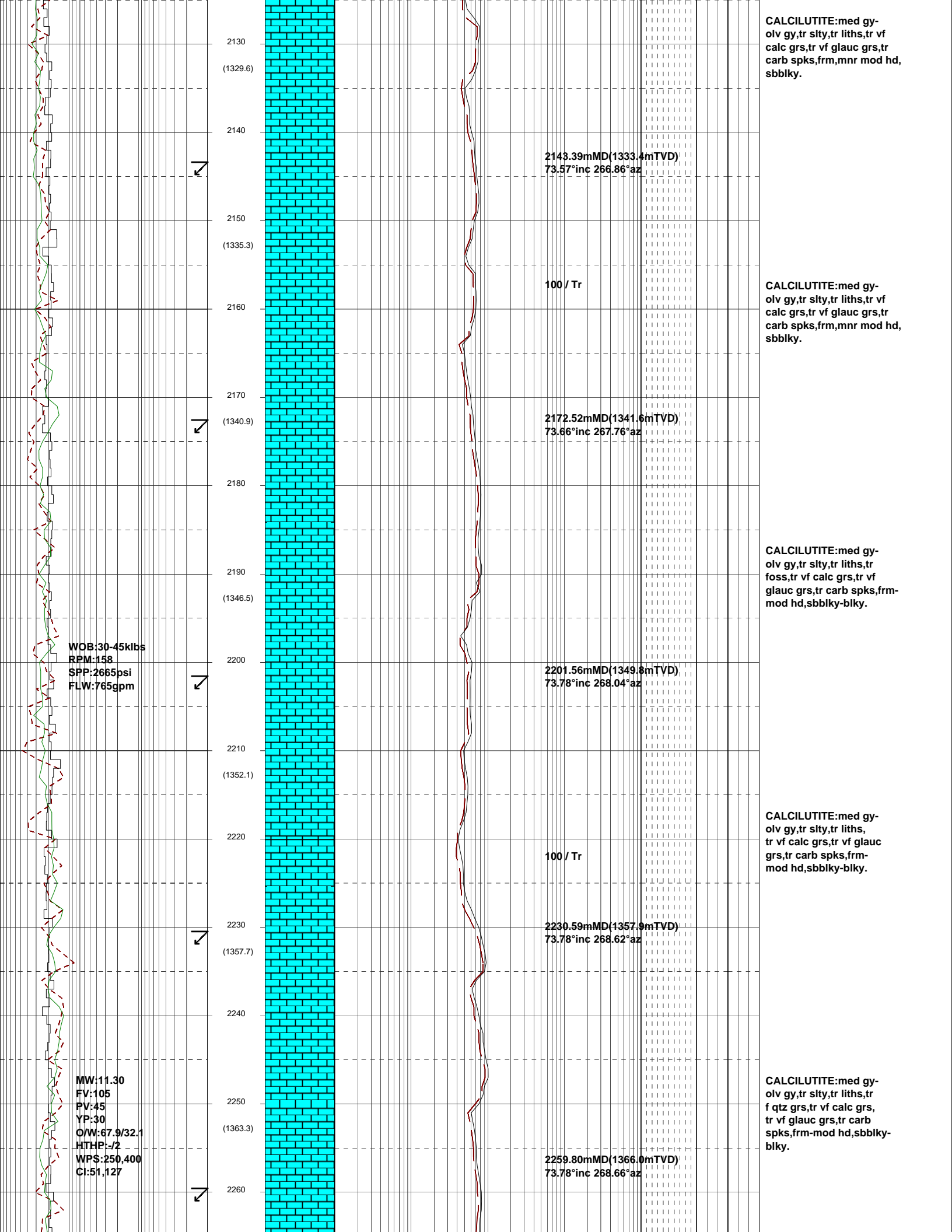
100 / Tr

CALCILUTITE:med gy-olv gy, tr slty, tr liths, tr vf calc grs, tr vf glauc grs, tr carb spks, frm, mnr mod hd, sbbiky.

CALCILUTITE:med gy-olv gy, tr slty, tr liths, tr vf calc grs, tr vf glauc grs, tr carb spks, frm, mnr mod hd, sbbiky.

CALCILUTITE:med gy-olv gy, tr slty, tr liths, tr vf calc grs, tr vf glauc grs, tr carb spks, frm, mnr mod hd, sbbiky.

CALCILUTITE:med gy-olv gy, tr slty, tr liths, tr vf calc grs, tr vf glauc grs, tr carb spks, frm, mnr mod hd, sbbiky.



2270  
(1368.9)  
2280  
2290  
(1374.5)  
2300  
2310  
(1380)  
2320  
2330  
(1385.6)  
2340  
2350  
(1391.2)  
2360  
2370  
(1396.8)  
2380  
2390  
(1402.4)  
2400

100 / Tr  
2289.04mMD(1374.2mTVD)  
73.84°inc 268.75°az  
100 / Tr  
2318.30mMD(1382.3mTVD)  
73.90°inc 268.29°az  
2347.57mMD(1390.5mTVD)  
73.64°inc 266.79°az  
100 / Tr  
2376.33mMD(1398.6mTVD)  
73.75°inc 267.16°az

WOB:32-45klbs  
RPM:158  
SPP:2882psi  
FLW:755gpm

WOB:22-44klbs  
RPM:158  
SPP:2580psi  
FLW:747gpm

CALCILUTITE:med gy-olv gy,tr slty,tr liths,tr f qtz grs,tr vf calc grs, tr vf glauc grs,tr carb spks,frm-mod hd,sbblky-blky.

Base High Velocity Channel  
2304.0mMDRT 1378.4mTVDRT  
(-1336.73mTVDSS)

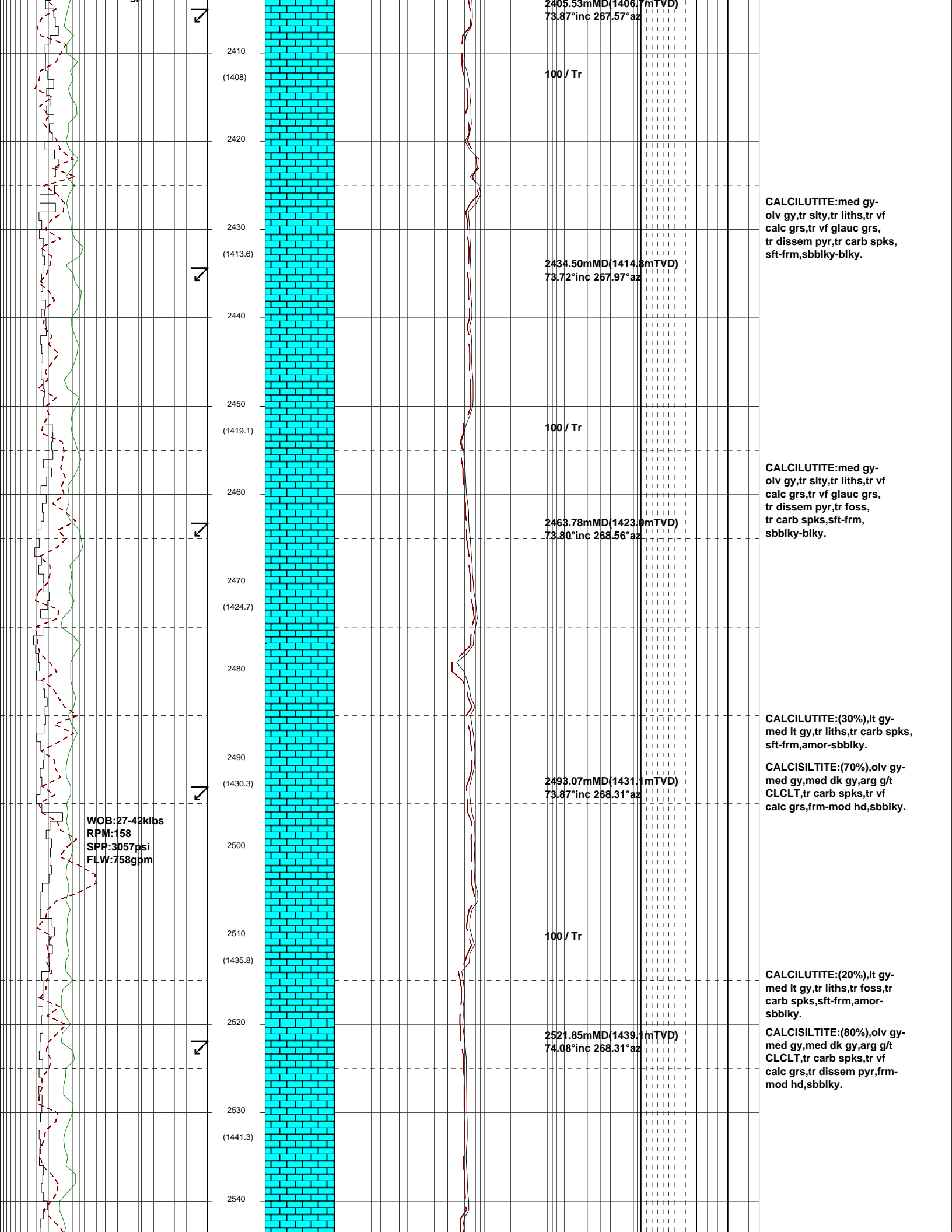
CALCILUTITE:med gy-olv gy,tr slty,tr liths,tr vf calc grs,tr vf glauc grs, tr carb spks,frm-mod hd, sbblky-blky.

CALCILUTITE:(80%),med gy-olv gy,tr slty,tr liths,tr vf calc grs,tr vf glauc grs, tr dissem pyr,tr carb spks, frm-mod hd,sbblky-blky.

CALCISILTITE:(20%), med gy-olv gy,brn gy,aren, tr liths,tr vf calc grs, tr vf glauc grs,frm,sbblky.

CALCILUTITE:med gy-olv gy,tr slty,tr liths,tr vf calc grs,tr vf glauc grs, tr dissem pyr,tr carb spks, sft-frm,sbblky-blky.

CALCILUTITE:med gy-olv gy,tr slty,tr liths,tr vf calc grs,tr vf glauc grs, tr dissem pyr,tr carb spks, sft-frm,sbblky-blky.



2410  
(1408)  
2420  
2430  
(1413.6)  
2440  
2450  
(1419.1)  
2460  
2470  
(1424.7)  
2480  
2490  
(1430.3)  
2500  
2510  
(1435.8)  
2520  
2530  
(1441.3)  
2540

2405.53mMD(1406.7mTVD)  
73.87°inc 267.57°az

100 / Tr

CALCILUTITE:med gy-  
olv gy,tr slty,tr liths,tr vf  
calc grs,tr vf glauc grs,  
tr dissem pyr,tr carb spks,  
sft frm,sbbiky-blky.

2434.50mMD(1414.8mTVD)  
73.72°inc 267.97°az

100 / Tr

CALCILUTITE:med gy-  
olv gy,tr slty,tr liths,tr vf  
calc grs,tr vf glauc grs,  
tr dissem pyr,tr foss,  
tr carb spks,sft frm,  
sbbiky-blky.

2463.78mMD(1423.0mTVD)  
73.80°inc 268.56°az

CALCILUTITE:(30%),lt gy-  
med lt gy,tr liths,tr carb spks,  
sft frm,amor-sbbiky.

2493.07mMD(1431.1mTVD)  
73.87°inc 268.31°az

CALCISILTITE:(70%),olv gy-  
med gy,med dk gy,arg g/t  
CLCLT,tr carb spks,tr vf  
calc grs,frm-mod hd,sbbiky.

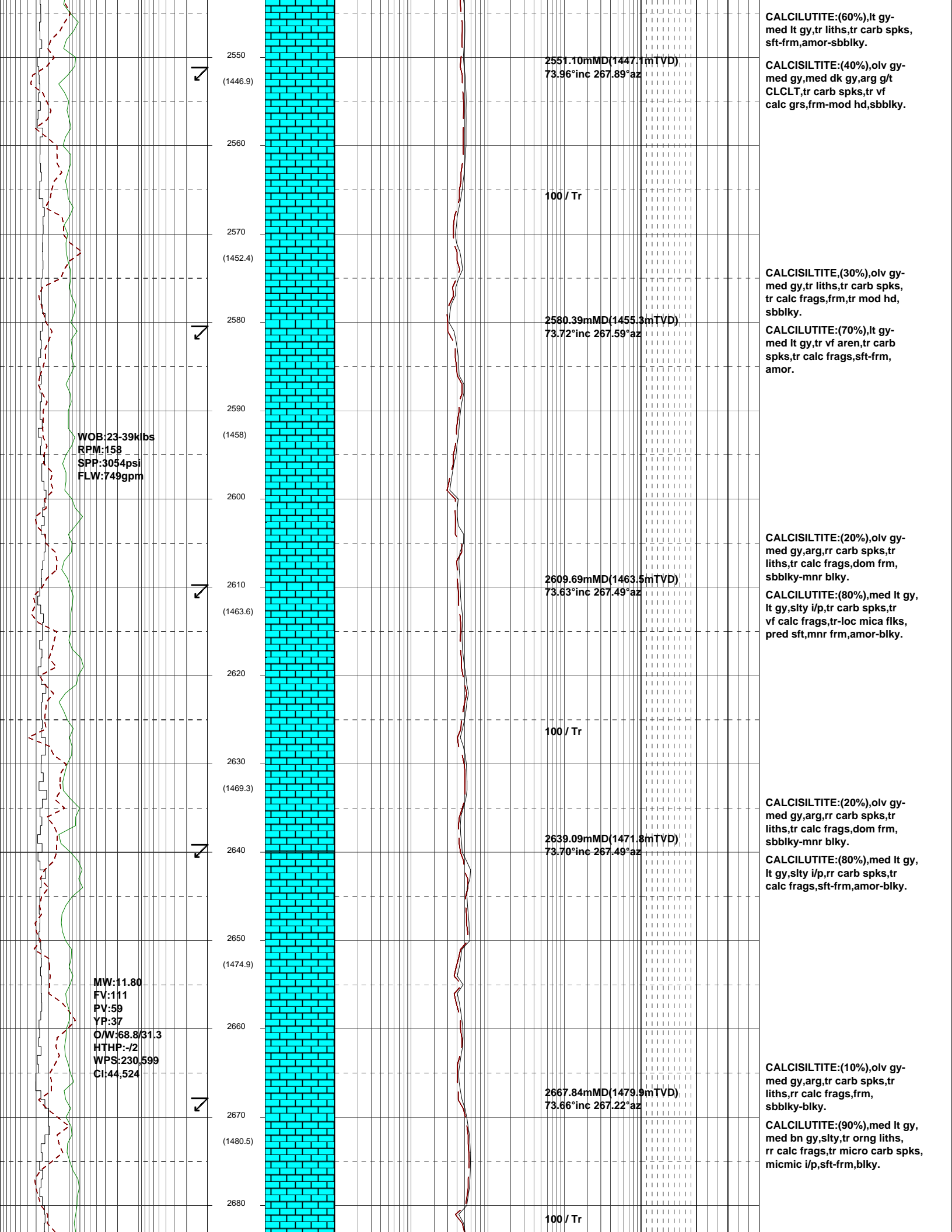
WOB:27-42klbs  
RPM:158  
SPP:3057psi  
FLW:758gpm

100 / Tr

CALCILUTITE:(20%),lt gy-  
med lt gy,tr liths,tr foss,  
tr carb spks,sft frm,amor-  
sbbiky.

2521.85mMD(1439.1mTVD)  
74.08°inc 268.31°az

CALCISILTITE:(80%),olv gy-  
med gy,med dk gy,arg g/t  
CLCLT,tr carb spks,tr vf  
calc grs,tr dissem pyr,frm-  
mod hd,sbbiky.



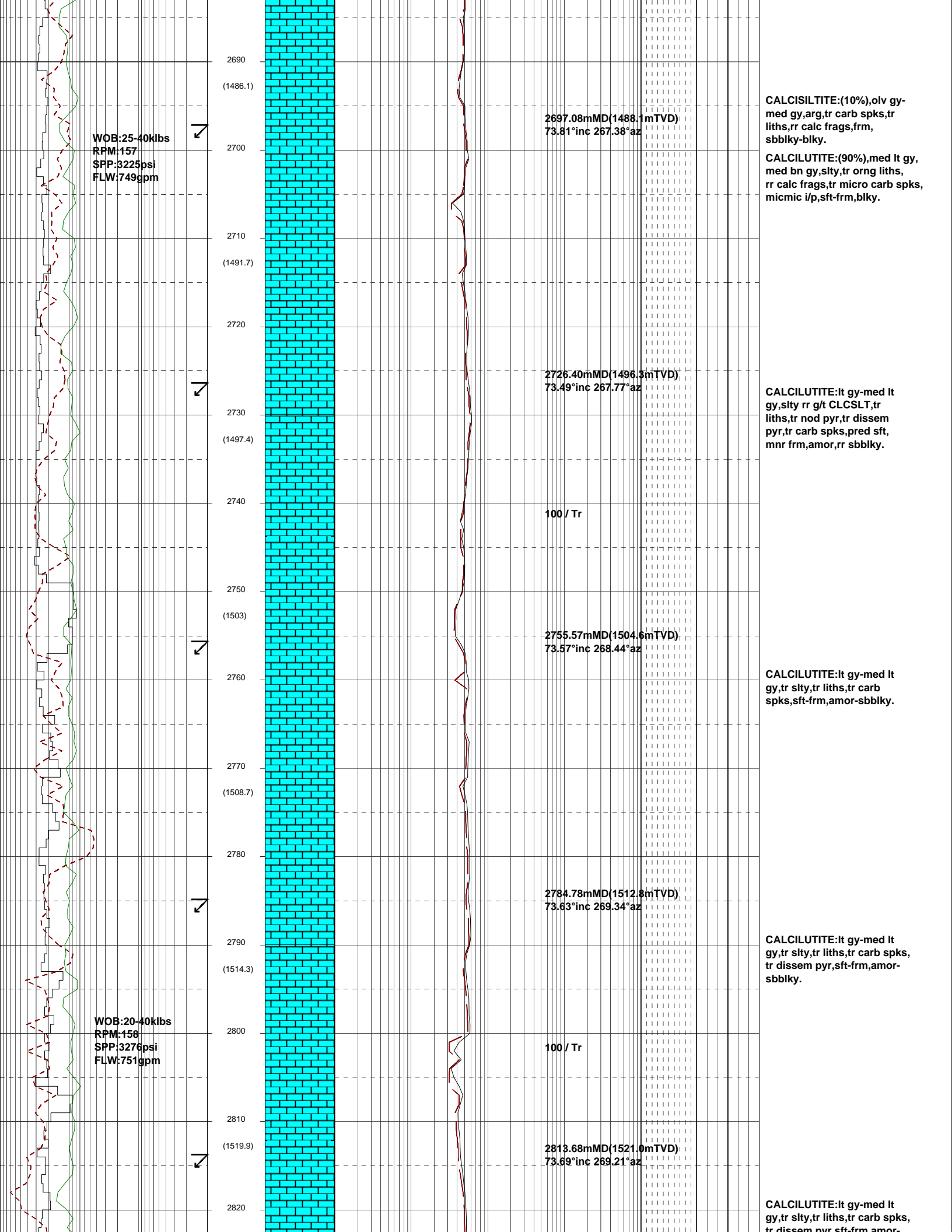
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(1446.9)  
2560  
2570  
(1452.4)  
2580  
2590  
(1458)  
2600  
2610  
(1463.6)  
2620  
2630  
(1469.3)  
2640  
2650  
(1474.9)  
2660  
2670  
(1480.5)  
2680

2551.10mMD(1447.1mTVD)  
73.86°inc 267.89°az  
  
100 / Tr  
  
2580.39mMD(1455.3mTVD)  
73.72°inc 267.59°az  
  
2609.69mMD(1463.5mTVD)  
73.63°inc 267.49°az  
  
100 / Tr  
  
2639.09mMD(1471.8mTVD)  
73.70°inc 267.49°az  
  
2667.84mMD(1479.9mTVD)  
73.66°inc 267.22°az  
  
100 / Tr

WOB:23-39kbs  
RPM:158  
SPP:3054psi  
FLW:749gpm

MW:11.80  
FV:111  
PV:59  
YP:37  
O/W:68.8/31.3  
HTHP:-/2  
WPS:230,599  
Cl:44,524

CALCILUTITE:(60%),lt gy-med lt gy,tr liths,tr carb spks, sft-frm,amor-sbbkly.  
  
CALCISILTITE:(40%),olv gy-med gy,med dk gy,arg g/t CLCLT,tr carb spks,tr vf calc grs,frm-mod hd,sbbkly.  
  
CALCISILTITE,(30%),olv gy-med gy,tr liths,tr carb spks, tr calc frags,frm,tr mod hd, sbbkly.  
  
CALCILUTITE:(70%),lt gy-med lt gy,tr vf aren,tr carb spks,tr calc frags,sft-frm, amor.  
  
CALCISILTITE:(20%),olv gy-med gy,arg,rr carb spks,tr liths,tr calc frags,dm frm, sbbkly-mnr blkly.  
  
CALCILUTITE:(80%),med lt gy, lt gy,slty i/p,tr carb spks,tr vf calc frags,tr-loc mica flks, pred sft,mnr frm,amor-blky.  
  
CALCISILTITE:(20%),olv gy-med gy,arg,rr carb spks,tr liths,tr calc frags,dm frm, sbbkly-mnr blkly.  
  
CALCILUTITE:(80%),med lt gy, lt gy,slty i/p,rr carb spks,tr calc frags,sft-frm,amor-blky.  
  
CALCISILTITE:(10%),olv gy-med gy,arg,tr carb spks,tr liths,rr calc frags,frm, sbbkly-blky.  
  
CALCILUTITE:(90%),med lt gy, med bn gy,slty,tr orng liths, rr calc frags,tr micro carb spks, micmic i/p,sft-frm,blkly.



WOB:25-40klbs  
RPM:157  
SPP:3225psi  
FLW:749gpm

WOB:20-40klbs  
RPM:158  
SPP:3276psi  
FLW:751gpm

2690  
(1486.1)  
2700  
2710  
(1491.7)  
2720  
2730  
(1497.4)  
2740  
2750  
(1503)  
2760  
2770  
(1508.7)  
2780  
2790  
(1514.3)  
2800  
2810  
(1519.9)  
2820

2697.08mMD(1488.1mTVD)  
73.81°inc 267.38°az

2726.40mMD(1496.3mTVD)  
73.49°inc 267.77°az

2755.57mMD(1504.6mTVD)  
73.57°inc 268.44°az

2784.78mMD(1512.8mTVD)  
73.63°inc 269.34°az

2813.68mMD(1521.0mTVD)  
73.69°inc 269.21°az

100 / Tr

100 / Tr

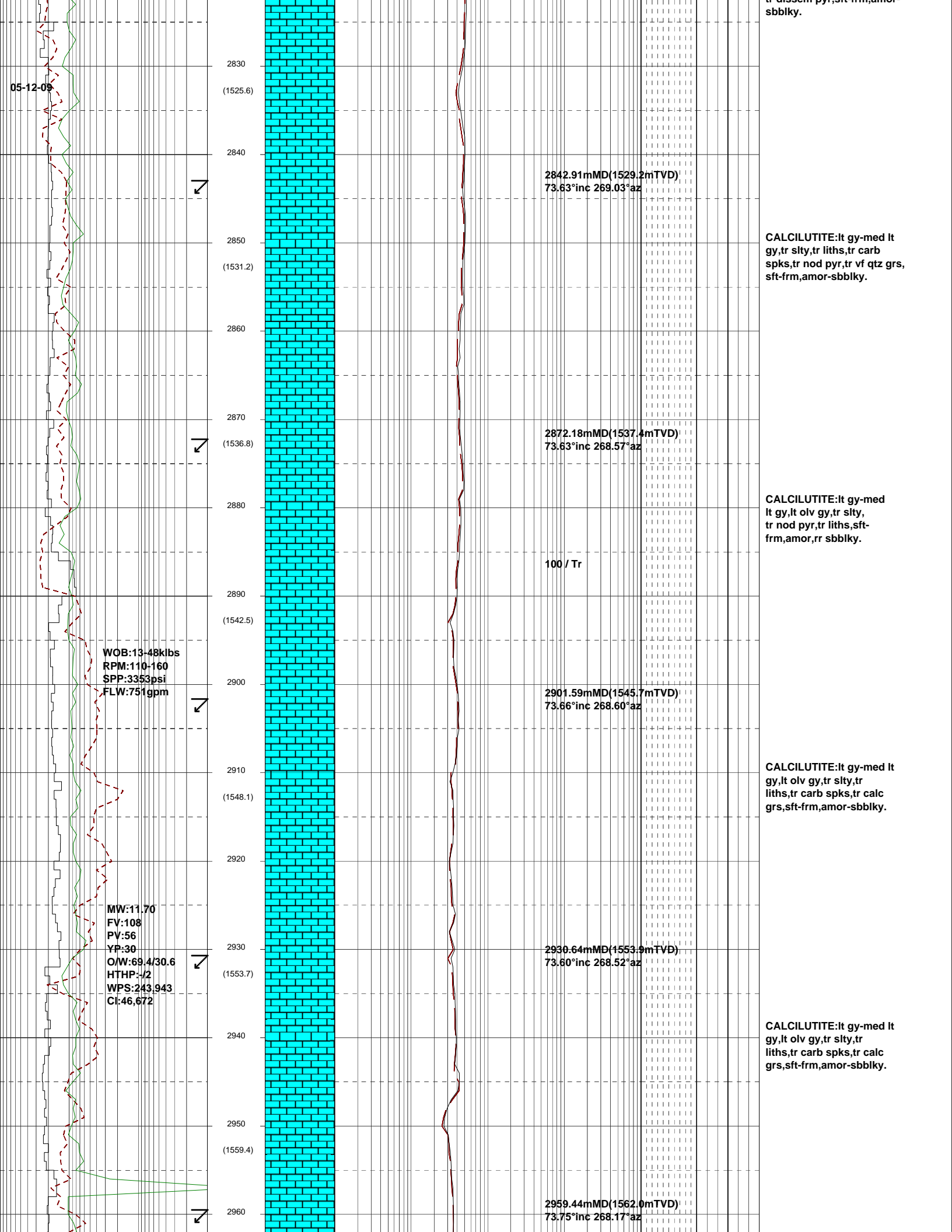
CALCISILTITE:(10%),olv gy-med gy,arg,tr carb spks,tr liths,rr calc frags,frm, sbbiky-blky.  
CALCILUTITE:(90%),med lt gy, med bn gy,slty,tr orgn liths, rr calc frags,tr micro carb spks, micmic i/p,sft-frm,blky.

CALCILUTITE:lt gy-med lt gy,slty rr g/t CLCSLT,tr liths,tr nod pyr,tr dissem pyr,tr carb spks,pred sft, mnr frm,amor,rr sbbiky.

CALCILUTITE:lt gy-med lt gy,tr slty,tr liths,tr carb spks,sft-frm,amor-sbbiky.

CALCILUTITE:lt gy-med lt gy,tr slty,tr liths,tr carb spks, tr dissem pyr,sft-frm,amor-sbbiky.

CALCILUTITE:lt gy-med lt gy,tr slty,tr liths,tr carb spks, tr dissem pyr,sft-frm amor-



05-12-09

2830

(1525.6)

2840

2850

(1531.2)

2860

2870

(1536.8)

2880

2890

(1542.5)

2900

2910

(1548.1)

2920

2930

(1553.7)

2940

2950

(1559.4)

2960

2842.91mMD(1529.2mTVD)

73.63°inc 269.03°az

2872.18mMD(1537.4mTVD)

73.63°inc 268.57°az

100 / Tr

2901.59mMD(1545.7mTVD)

73.66°inc 268.60°az

2930.64mMD(1553.9mTVD)

73.60°inc 268.52°az

2959.44mMD(1562.0mTVD)

73.75°inc 268.17°az

WOB:13-48kibs  
RPM:110-160  
SPP:3353psi  
FLW:751gpm

MW:11.70  
FV:108  
PV:56  
YP:30  
O/W:69.4/30.6  
HTHP:-/2  
WPS:243.943  
CI:46,672

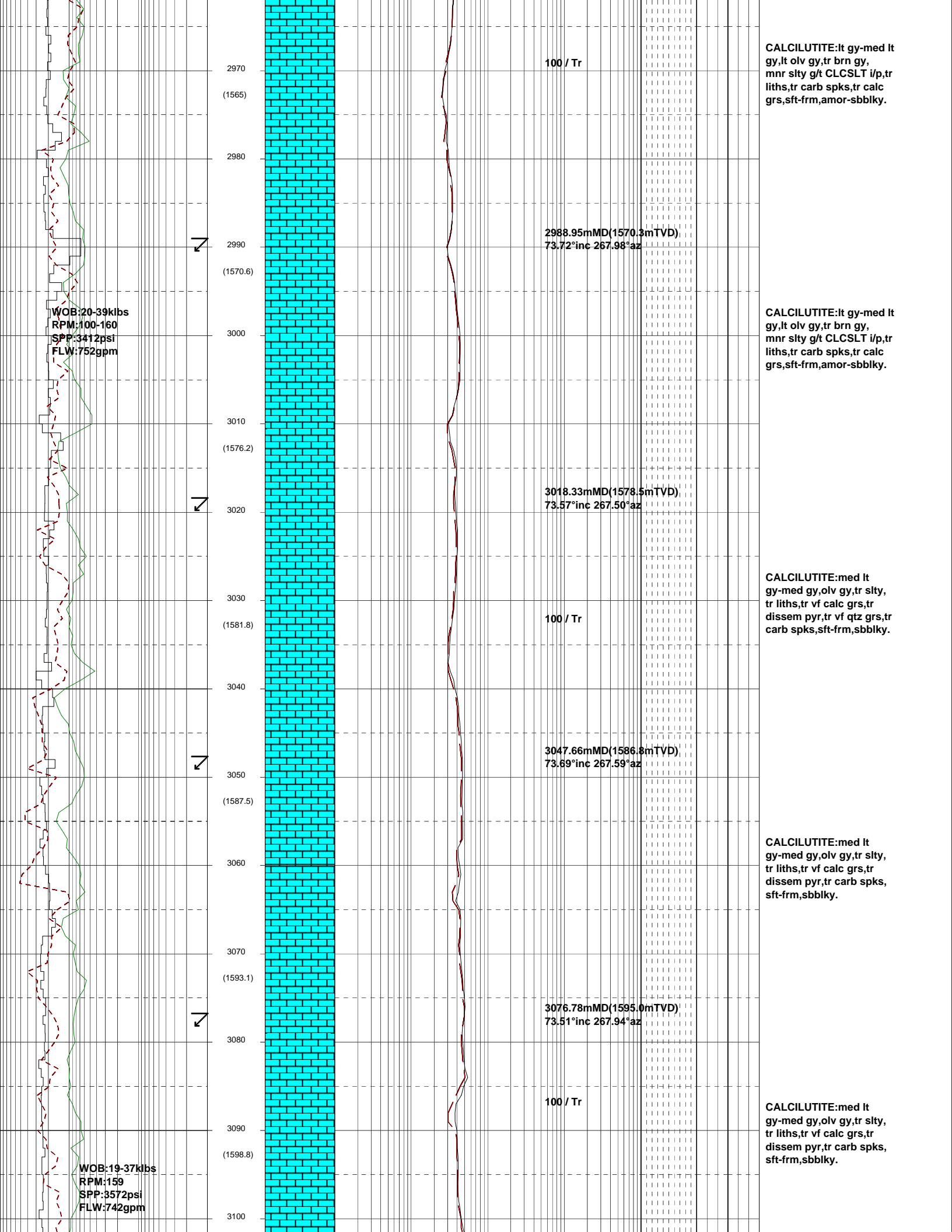
CALCILUTITE:lt gy-med lt gy,tr slty,tr liths,tr carb spks,tr nod pyr,tr vf qtz grs, sft-frm,amor-sbblky.

CALCILUTITE:lt gy-med lt gy,lt olv gy,tr slty, tr nod pyr,tr liths,sft-frm,amor,rr sbblky.

CALCILUTITE:lt gy-med lt gy,lt olv gy,tr slty,tr liths,tr carb spks,tr calc grs,sft-frm,amor-sbblky.

CALCILUTITE:lt gy-med lt gy,lt olv gy,tr slty,tr liths,tr carb spks,tr calc grs,sft-frm,amor-sbblky.





2970  
(1565)

100 / Tr

CALCILUTITE:lt gy-med lt gy,lt olv gy,tr brn gy, mnr slty g/t CLCSLT i/p,tr liths,tr carb spks,tr calc grs,sft-frm,amor-sbblky.

2980

2990  
(1570.6)

2988.95mMD(1570.3mTVD)  
73.72°inc 267.98°az

CALCILUTITE:lt gy-med lt gy,lt olv gy,tr brn gy, mnr slty g/t CLCSLT i/p,tr liths,tr carb spks,tr calc grs,sft-frm,amor-sbblky.

3000

WOB:20-39kibs  
RPM:100-160  
SPP:3412psi  
FLW:752gpm

3010  
(1576.2)

3018.33mMD(1578.5mTVD)  
73.57°inc 267.50°az

CALCILUTITE:med lt gy-med gy,olv gy,tr slty, tr liths,tr vf calc grs,tr disse pyr,tr vf qtz grs,tr carb spks,sft-frm,sbblky.

3020

3030  
(1581.8)

100 / Tr

CALCILUTITE:med lt gy-med gy,olv gy,tr slty, tr liths,tr vf calc grs,tr disse pyr,tr carb spks, sft-frm,sbblky.

3040

3050  
(1587.5)

3047.66mMD(1586.8mTVD)  
73.69°inc 267.59°az

3060

3070  
(1593.1)

3076.78mMD(1595.0mTVD)  
73.51°inc 267.94°az

CALCILUTITE:med lt gy-med gy,olv gy,tr slty, tr liths,tr vf calc grs,tr disse pyr,tr carb spks, sft-frm,sbblky.

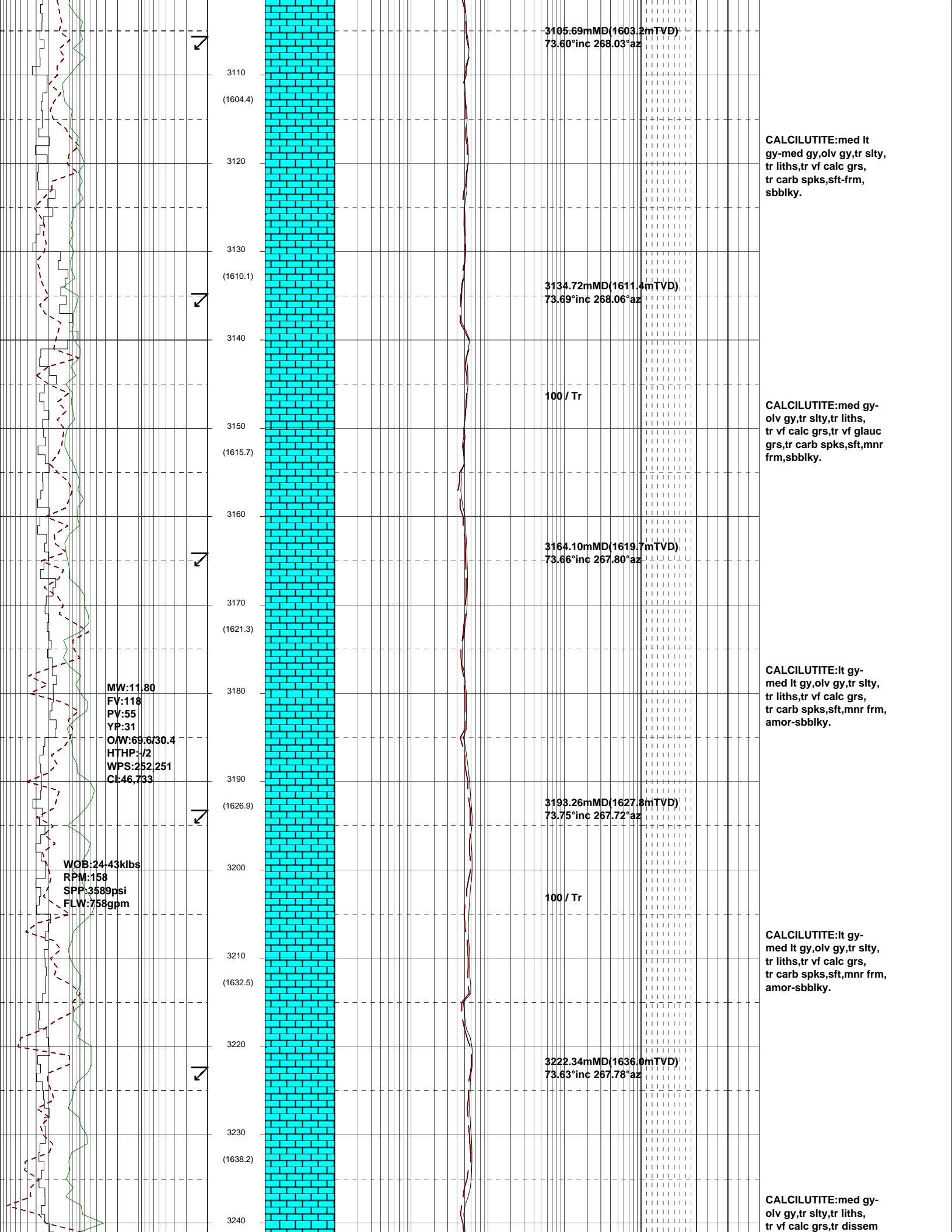
3080

3090  
(1598.8)

100 / Tr

WOB:19-37kibs  
RPM:159  
SPP:3572psi  
FLW:742gpm

3100



3110  
(1604.4)  
3120  
3130  
(1610.1)  
3140  
3150  
(1615.7)  
3160  
3170  
(1621.3)  
3180  
3190  
(1626.9)  
3200  
3210  
(1632.5)  
3220  
3230  
(1638.2)  
3240

3105.69mMD(1603.2mTVD)

73.60°inc 268.03°az

3134.72mMD(1611.4mTVD)

73.69°inc 268.06°az

100 / Tr

3164.10mMD(1619.7mTVD)

73.66°inc 267.80°az

3193.26mMD(1627.8mTVD)

73.75°inc 267.72°az

100 / Tr

3222.34mMD(1636.0mTVD)

73.63°inc 267.78°az

MW:11.80  
FV:118  
PV:55  
YP:31  
O/W:69.6/30.4  
HTHP:-/2  
WPS:252,251  
CI:46,733

WOB:24-43klbs  
RPM:158  
SPP:3589psi  
FLW:758gpm

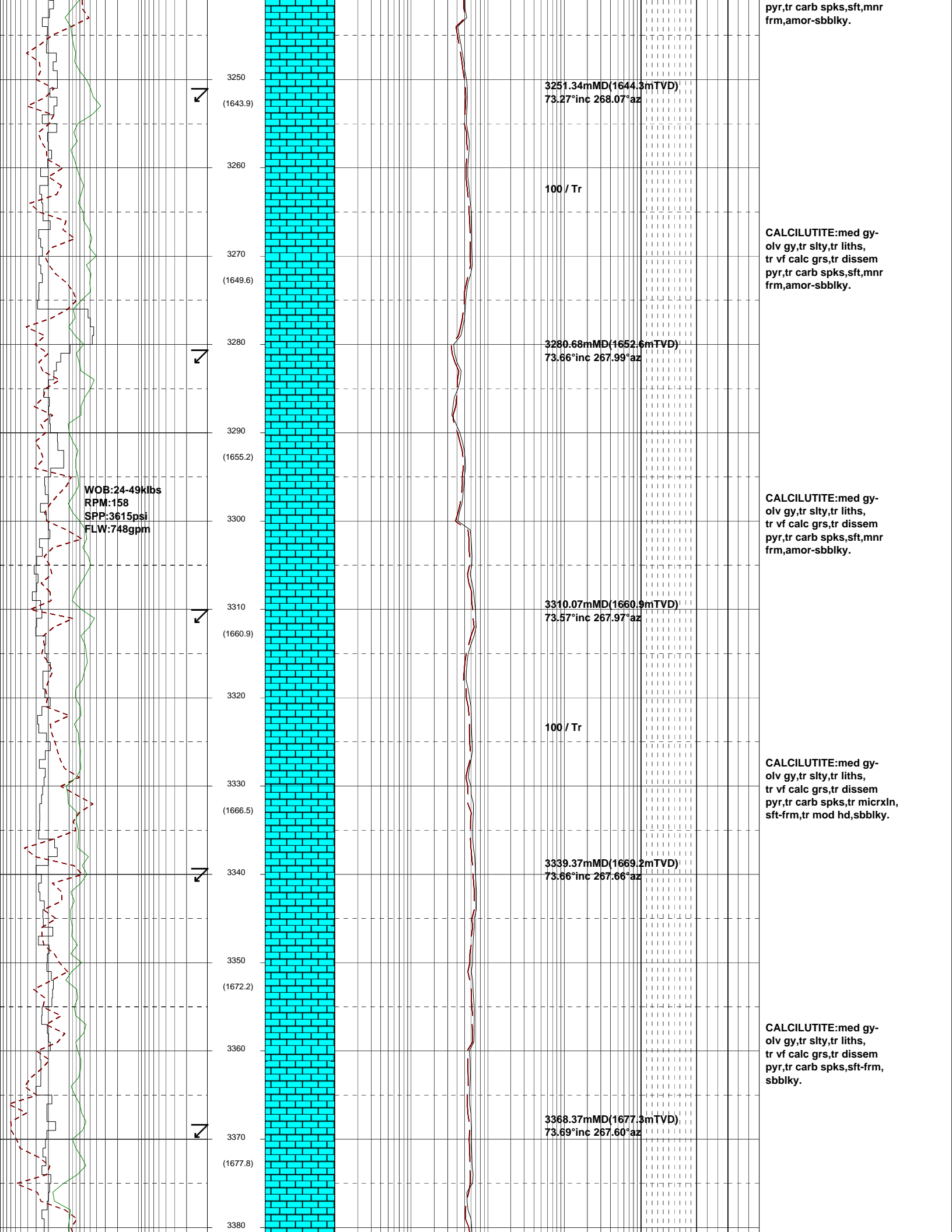
CALCILUTITE:med lt gy-med gy,olv gy,tr slty, tr liths,tr vf calc grs, tr carb spks,sft-frm, sbbiky.

CALCILUTITE:med gy-olv gy,tr slty,tr liths, tr vf calc grs,tr carb spks,sft,mnr frm,sbbiky.

CALCILUTITE:lt gy-med lt gy,olv gy,tr slty, tr liths,tr vf calc grs, tr carb spks,sft,mnr frm, amor-sbbiky.

CALCILUTITE:lt gy-med lt gy,olv gy,tr slty, tr liths,tr vf calc grs, tr carb spks,sft,mnr frm, amor-sbbiky.

CALCILUTITE:med gy-olv gy,tr slty,tr liths, tr vf calc grs,tr dissem



pyr, tr carb spks, sft, mnr  
frm, amor-sbblky.

3250  
(1643.9)

3251.34mMD(1644.3mTVD)  
73.27°inc 268.07°az

3260

100 / Tr

3270  
(1649.6)

CALCILUTITE: med gy-  
olv gy, tr slty, tr liths,  
tr vf calc grs, tr dissem  
pyr, tr carb spks, sft, mnr  
frm, amor-sbblky.

3280

3280.68mMD(1652.6mTVD)  
73.66°inc 267.99°az

3290  
(1655.2)

WOB: 24-49klbs  
RPM: 158  
SPP: 3615psi  
FLW: 748gpm

CALCILUTITE: med gy-  
olv gy, tr slty, tr liths,  
tr vf calc grs, tr dissem  
pyr, tr carb spks, sft, mnr  
frm, amor-sbblky.

3300

3310.07mMD(1660.9mTVD)  
73.57°inc 267.97°az

3310  
(1660.9)

100 / Tr

CALCILUTITE: med gy-  
olv gy, tr slty, tr liths,  
tr vf calc grs, tr dissem  
pyr, tr carb spks, tr micrxln,  
sft-frm, tr mod hd, sbblky.

3320

3330  
(1666.5)

3339.37mMD(1669.2mTVD)  
73.66°inc 267.66°az

3340

3350  
(1672.2)

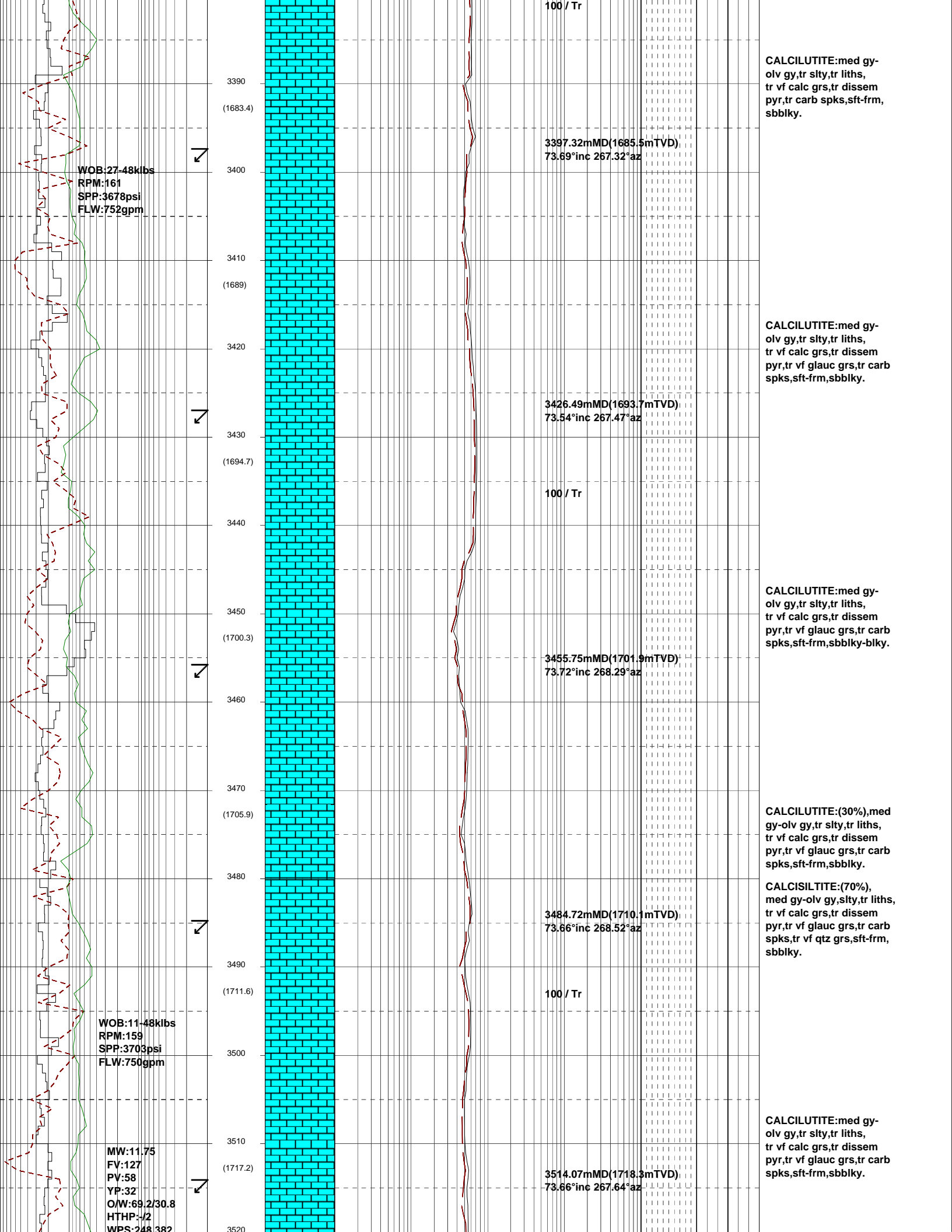
CALCILUTITE: med gy-  
olv gy, tr slty, tr liths,  
tr vf calc grs, tr dissem  
pyr, tr carb spks, sft-frm,  
sbblky.

3360

3370  
(1677.8)

3368.37mMD(1677.3mTVD)  
73.69°inc 267.60°az

3380



3390  
(1683.4)

100 / Tr

CALCILUTITE:med gy-  
olv gy,tr slty,tr liths,  
tr vf calc grs,tr dissem  
pyr,tr carb spks,sft frm,  
sbbkly.

WOB:27-48klbs  
RPM:161  
SPP:3678psi  
FLW:752gpm

3400

3397.32mMD(1685.5mTVD)  
73.69°inc 267.32°az

3410  
(1689)

CALCILUTITE:med gy-  
olv gy,tr slty,tr liths,  
tr vf calc grs,tr dissem  
pyr,tr vf glauc grs,tr carb  
spks,sft frm,sbbkly.

3420

3426.49mMD(1693.7mTVD)  
73.54°inc 267.47°az

3430  
(1694.7)

100 / Tr

CALCILUTITE:med gy-  
olv gy,tr slty,tr liths,  
tr vf calc grs,tr dissem  
pyr,tr vf glauc grs,tr carb  
spks,sft frm,sbbkly-blky.

3450  
(1700.3)

3455.75mMD(1701.9mTVD)  
73.72°inc 268.29°az

3460

3480  
(1705.9)

CALCILUTITE:(30%),med  
gy-olv gy,tr slty,tr liths,  
tr vf calc grs,tr dissem  
pyr,tr vf glauc grs,tr carb  
spks,sft frm,sbbkly.

3480

3484.72mMD(1710.1mTVD)  
73.66°inc 268.52°az

CALCISILTITE:(70%),  
med gy-olv gy,slty,tr liths,  
tr vf calc grs,tr dissem  
pyr,tr vf glauc grs,tr carb  
spks,tr vf qtz grs,sft frm,  
sbbkly.

3490  
(1711.6)

100 / Tr

CALCILUTITE:med gy-  
olv gy,tr slty,tr liths,  
tr vf calc grs,tr dissem  
pyr,tr vf glauc grs,tr carb  
spks,sft frm,sbbkly.

3500

WOB:11-48klbs  
RPM:159  
SPP:3703psi  
FLW:750gpm

3510  
(1717.2)

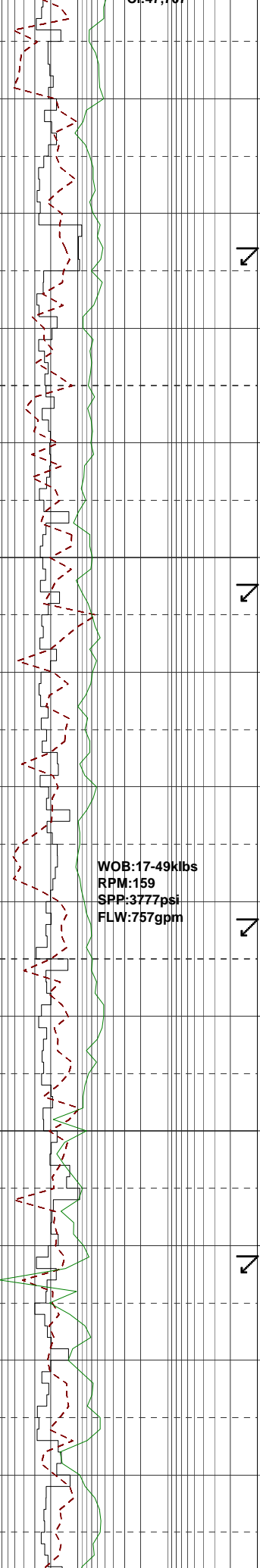
3514.07mMD(1718.3mTVD)  
73.66°inc 267.64°az

MW:11.75  
FV:127  
PV:58  
YP:32  
O/W:69.2/30.8  
HTHP:-/2  
WPS:248,382

3520

CI:47,707

3530 (1722.8)  
3540  
3550 (1728.5)  
3560  
3570 (1734.1)  
3580  
3590 (1739.7)  
3600  
3610 (1745.3)  
3620  
3630 (1751)  
3640  
3650 (1756.9)



WOB:17-49klbs  
RPM:159  
SPP:3777psi  
FLW:757gpm

3542.99mMD(1726.5mTVD)  
73.54°inc 268.05°az

100 / Tr

3572.32mMD(1734.8mTVD)  
73.72°inc 267.97°az

3601.57mMD(1743.0mTVD)  
73.69°inc 267.91°az

100 / Tr

3630.88mMD(1751.2mTVD)  
73.63°inc 268.02°az

3660.38mMD(1759.9mTVD)

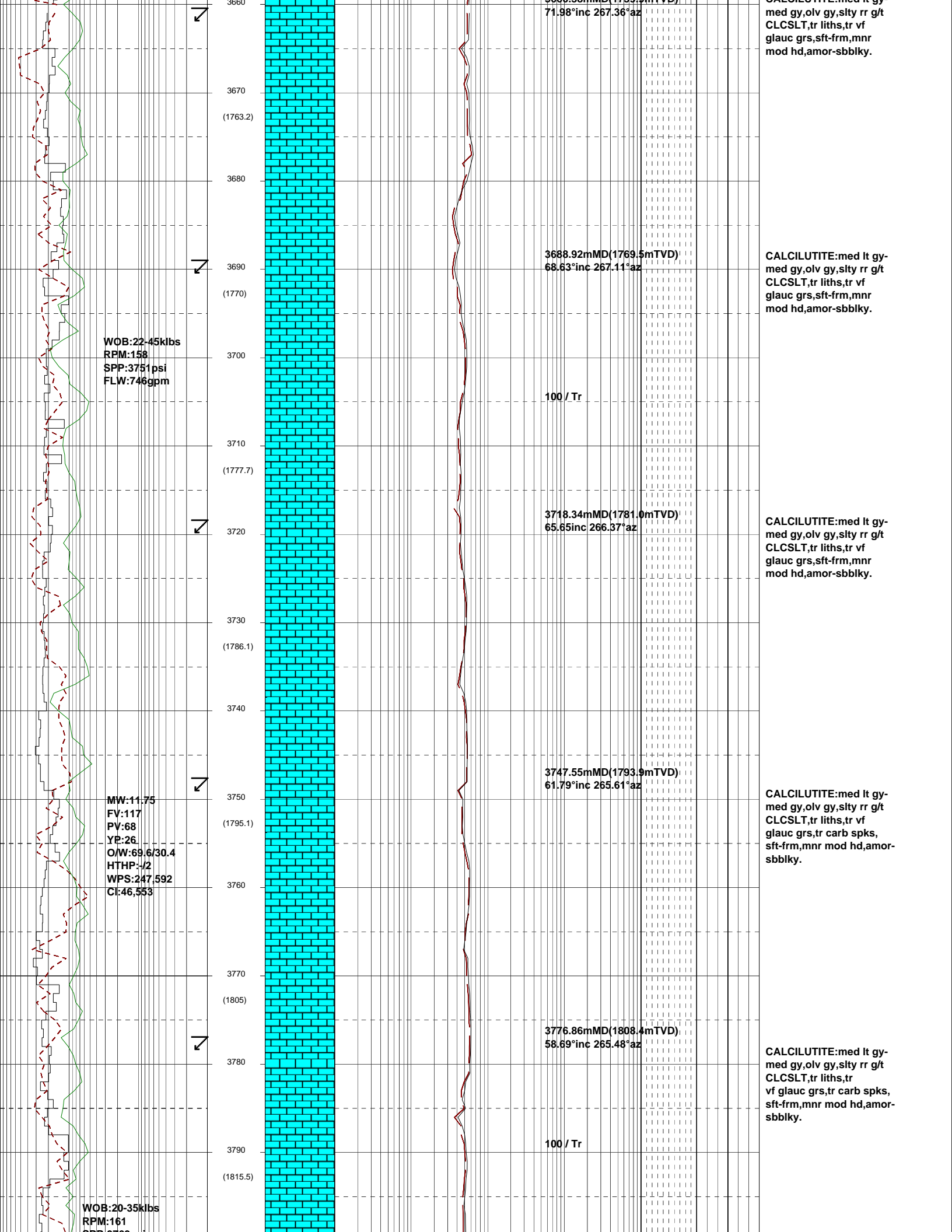
CALCILUTITE:med gy-  
olv gy,tr slty,tr liths,  
tr vf calc grs,tr dissem  
pyr,tr vf glauc grs,tr carb  
spks,sft frm,sbbiky.

CALCILUTITE:med gy-  
olv gy,tr slty,tr liths,  
tr vf calc grs,tr dissem  
pyr,tr nod pyr,tr vf glauc  
grs,tr carb spks,sft frm,  
sbbiky.

CALCILUTITE:med lt gy-  
med gy,lt olv gy,slty,  
tr liths,tr vf calc grs,  
sft frm,amor-sbbiky.

CALCILUTITE:med lt gy-  
med gy,lt olv gy,tr lt  
grn gy,slty,tr liths,tr  
vf calc grs,sft frm,amor  
-sbbiky.

CALCILUTITE:med lt gy-



SPP:3769psi  
FLW:753gpm

3800  
3810 (1826.5)  
3820  
3830 (1837.9)  
3840  
3850 (1849.8)  
3860  
3870 (1862.1)  
3880  
3890 (1874.9)  
3900  
3910 (1888.2)  
3920  
3930 (1901.8)

3806.26mMD(1824.3mTVD)  
55.97°inc 265.67°az

3835.10mMD(1840.9mTVD)  
54.05°inc 265.39°az

3863.82mMD(1858.2mTVD)  
51.72°inc 265.81°az

3892.98mMD(1876.8mTVD)  
48.98°inc 266.25°az

3922.46mMD(1896.6mTVD)  
46.81°inc 266.70°az

CALCILUTITE:med gy-  
med lt gy,lt olv gy,silty rr  
g/t CLCSLT,tr liths,sft-  
frm,tr mod hd,sbbiky-blky,  
mnr amor.

Mid Miocene Marker  
3838.0mMDRT 1843.9mTVDRT  
(-1802.16mTVDSS)

CALCILUTITE:med gy-  
med lt gy,lt olv gy,silty rr  
g/t CLCSLT,tr liths,sft-  
frm,tr mod hd,sbbiky-blky,  
mnr amor.

Pull back to 10.75" casing  
shoe for maintenance on TDS.

CALCILUTITE:(80%),lt gy-  
med lt gy,silty,tr liths,tr  
carb spks,tr dissem pyr,  
sft-frm,amor.

CALCAREOUS CLAYSTONE:  
(20%),med dk gy-olv gy,mod  
calc,tr liths,tr carb spks,tr  
dissem pyr,sft-frm,amor.

CALCILUTITE:(90%),lt gy-  
med lt gy,silty,tr liths,tr  
carb spks,tr dissem pyr,  
sft-frm,amor.

CALCAREOUS CLAYSTONE:  
(10%),med dk gy-olv gy,mod  
calc,tr liths,tr carb spks,tr  
dissem pyr,sft-frm,amor.

CALCILUTITE:lt gy-  
med lt gy,silty,tr liths,tr  
carb spks,tr dissem pyr,  
sft-frm,amor.

06-12-09

07-12-09

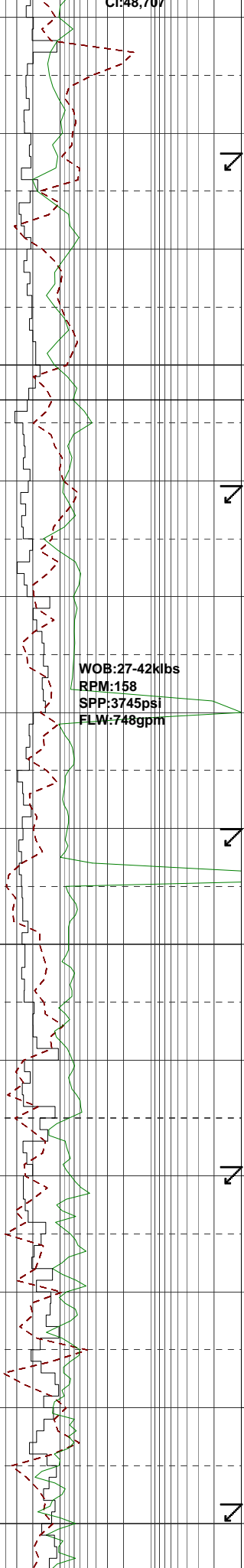
MW:11.70  
FV:105  
PV:55  
YP:31  
OW:70.3/29.7  
HTHP:-/2  
WPS:256,588  
CI:47,595

WOB:32-42klbs  
RPM:161  
SPP:3915psi  
FLW:751gpm

MW:11.65  
FV:104  
PV:56  
YP:26  
OW:69.6/30.4  
HTHP:-/2  
WPS:257,021  
CI:46,797

C:48,707

3940  
3950 (1915.8)  
3960  
3970 (1930.1)  
3980  
3990 (1944.7)  
4000  
4010 (1959.5)  
4020  
4030 (1974.8)  
4040  
4050 (1990.4)  
4060  
4070 (2006.5)



3951.78mMD(1917.0mTVD)  
44.72°inc 267.28°az

100 / Tr

3980.49mMD(1937.7mTVD)  
43.05°inc 268.04°az

4010.01mMD(1959.5mTVD)  
41.62°inc 270.12°az

100 / Tr

4039.18mMD(1981.8mTVD)  
38.98°inc 269.29°az

4068.34mMD(2005.1mTVD)  
34.94°inc 269.04°az

CALCILUTITE:(90%),lt gy-med lt gy,silty,tr liths,tr carb spks,tr dissem pyr,sft-frm,amor.

Lakes Entrance Frm:  
3973.0mMDRT 1933.6mTVDRT  
(-1891.9mTVDSS)

CALCILUTITE:(90%),lt gy-med lt gy,silty,tr liths,tr carb spks,tr vf glauc grs,sft-frm,amor.

CALCAREOUS CLAYSTONE:  
(10%),med dk gy-olv gy,mod calc,tr liths,tr carb spks,tr dissem pyr,sft-frm,amor.

CALCILUTITE:(80%),med lt gy-med gy,silty,lt olv gy, tr liths,tr carb spks,tr vf glauc grs,sft-frm,amor.

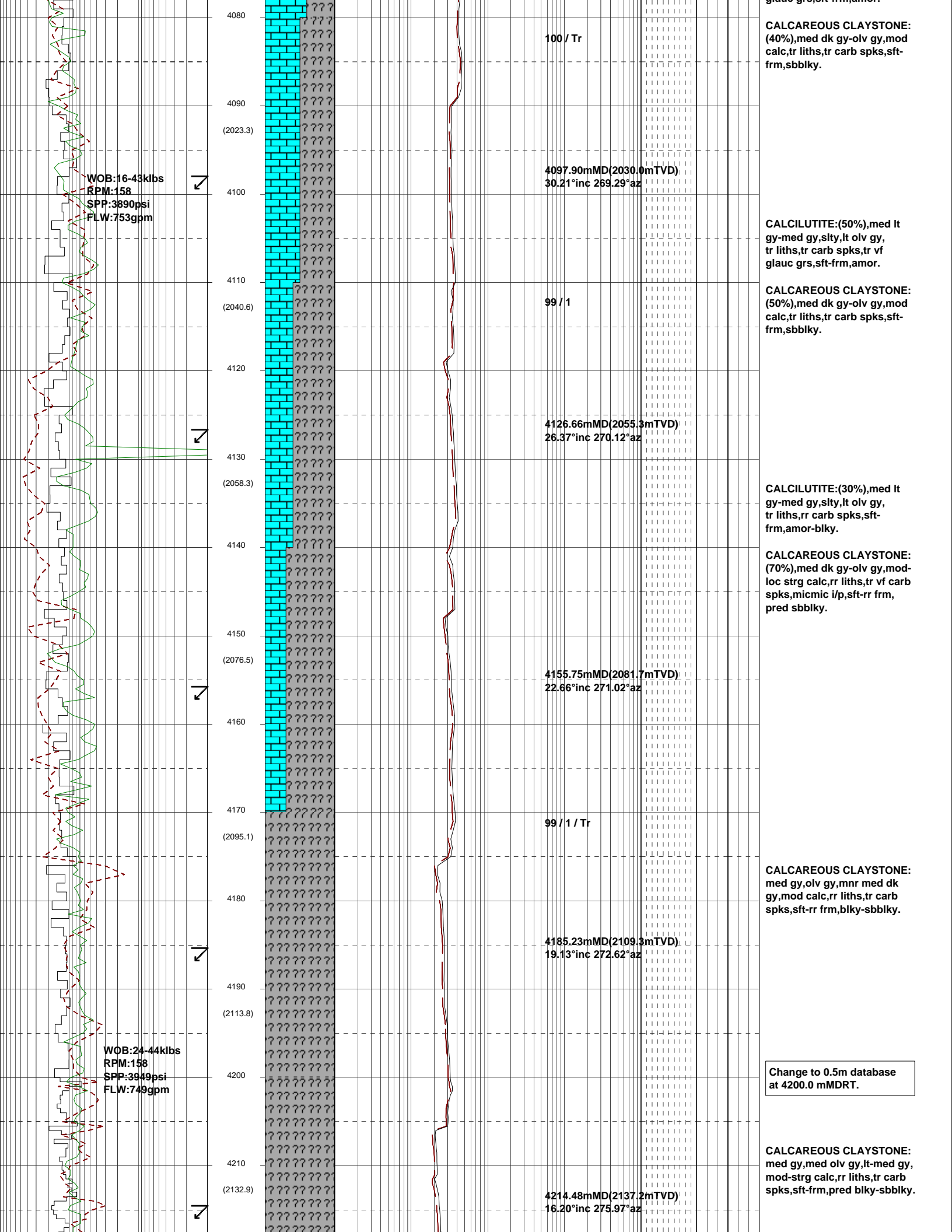
CALCAREOUS CLAYSTONE:  
(20%),med dk gy-olv gy,mod calc,tr liths,tr carb spks,sft-frm,sbblky.

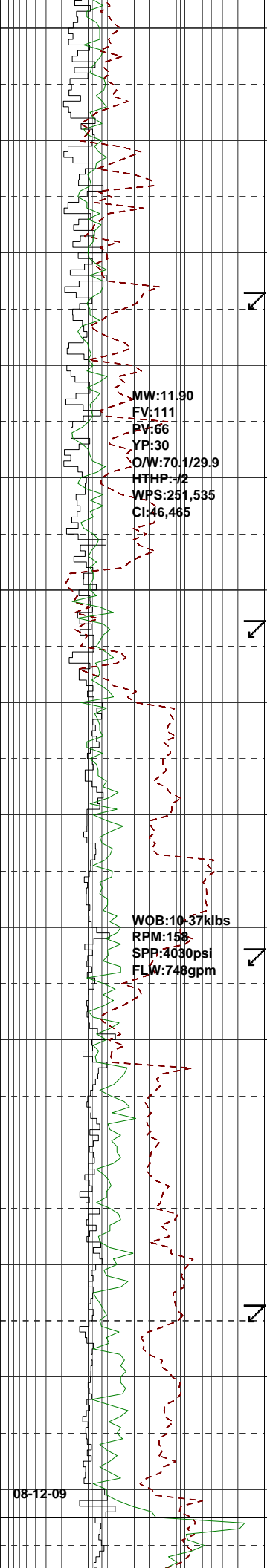
CALCILUTITE:(80%),med lt gy-med gy,silty,lt olv gy, tr liths,tr carb spks,tr vf glauc grs,sft-frm,amor.

CALCAREOUS CLAYSTONE:  
(20%),med dk gy-olv gy,mod calc,tr liths,tr carb spks,sft-frm,sbblky.

CALCILUTITE:(60%),med lt gy-med gy,silty,lt olv gy, tr liths,tr carb spks,tr vf glauc grs sft-frm amor







4220  
 4230 (2152.2)  
 4240  
 4250 (2171.6)  
 4260  
 4270 (2191.2)  
 4280  
 4290 (2210.9)  
 4300  
 4310 (2230.7)  
 4320  
 4330 (2250.6)  
 4340  
 4350 (2270.6)

MW:11.90  
 FV:111  
 PV:66  
 YP:30  
 OW:70.1/29.9  
 HTHP:~2  
 WPS:251,535  
 CI:46,465

WOB:10-37klbs  
 RPM:158  
 SPP:4030psi  
 FLW:748gpm

99 / 1 / Tr

4243.55mMD(2165.3mTVD)  
 13.05°inc 277.77°az

4272.69mMD(2193.8mTVD)  
 9.97°inc 279.52°az

98 / 1 / 1 / Tr

4301.99mMD(2222.8mTVD)  
 7.69°inc 280.02°az

97 / 2 / 1 / Tr

4331.56mMD(2252.2mTVD)  
 4.88°inc 282.32°az

96 / 2 / 1 / 1

**CALCAREOUS CLAYSTONE:**  
 med gy,med olv gy,lt-med gy,  
 mod-strg calc,silty i/p,rr liths,  
 tr carb spks,tr vf qtz grs,sft-  
 frm,sbblky-blky.

**CALCAREOUS CLAYSTONE:**  
 med gy,lt med gy,olv gy,mod  
 calc,silty i/p,rr carb spks,  
 rr-mnr liths,tr dissep pyr,  
 sft-frm,blky-sbblky.

Control drill below 50 m/hr  
 from 4275.0 mMDRT.

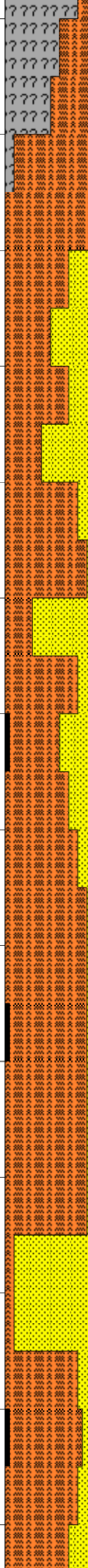
**CALCAREOUS CLAYSTONE:**  
 med gy,med olv gy,med brn gy,  
 wk calc,silty,rr carb spks,rr-  
 mnr liths,tr dissep pyr,frm-  
 mod hd,sbblky,sbfiss i/p.

**CALCAREOUS CLAYSTONE:**  
 med olv gy,lt med gy,mod-  
 strg calc,silty,rr dissep pyr,  
 tr nod pyr,tr carb spks,rr-mnr  
 liths,rr qtz grs,sft-frm,sbblky.

**CALCAREOUS CLAYSTONE:**  
 med olv gy,lt med gy,mod-  
 strg calc,silty,rr-mnr dissep  
 pyr,tr nod pyr,tr carb spks,  
 sft-frm,sbblky.

Latrobe Group:  
 4352.5mMDRT 2274.17mTVDRT  
 (-2232.5mTVDSS)

4360  
(2290.6)  
4370  
4380  
4390  
(2310.6)  
4400  
4410  
(2330.6)  
4420  
4430  
(2350.6)  
4440  
4450  
(2370.6)  
4460  
4470  
(2390.6)  
4480  
4490  
(2410.6)



WOB:12-39klbs  
RPM:90-160  
SPP:2850psi  
FLW:606gpm

4360.64mMD(2281.2mTVD)  
0.45°inc 88.48°az

89 / 5 / 3 / 3 / Tr

62 / 13 / 13 / 9 / 3

4390.02mMD(2310.6mTVD)  
0.16°inc 132.24°az

79.8 Units.

58 / 14 / 15 / 10 / 3

57 / 15 / 15 / 10 / 3

4418.71mMD(2339.3mTVD)  
0.02°inc 3.40°az

59 / 13 / 15 / 10 / 3

58 / 12 / 13 / 10 / 2

4448.17mMD(2368.7mTVD)  
0.09°inc 159.80°az

61 / 12 / 14 / 10 / 3

4477.40mMD(2398.0mTVD)  
0.07°inc 66.97°az

61 / 12 / 14 / 10 / 3

SILTSTONE:dk gy,tr gn blk,mottled i/p,wk calc,arg g/t CLYST i/p,mnr aren,tr-mnr glauc,tr-rr carb mat,sft-tr frm, sbbkly.

CALCAREOUS CLAYSTONE: olv gy,mod calc,tr slty,tr liths,tr vf dissep pyr,sft amor-sbbkly.

SILTSTONE:dk gy,tr gn blk,mottled i/p,wk calc,arg g/t CLYST i/p,mnr aren,tr-mnr glauc,tr-rr carb mat,sft-tr frm, sbbkly.

SANDSTONE:trnspl-trnsi,med-v crs,sa-sr,sbsph,mod srt,lse, tr liths,tr glauc,fr inf por, no fluor.

SANDSTONE:trnspl-trnsi,med-v crs,tr f,ang-sr,sbsph,pr-mod srt,lse,tr liths,tr glauc,fr inf por,no fluor.

SILTSTONE:dk gy,tr gn blk,mottled i/p,wk calc,arg g/t CLYST i/p,mnr aren,tr-mnr glauc,tr-rr carb mat,sft-tr frm, sbbkly.

SANDSTONE:lt gy-lt olv gy, trnsi-trnspl,med-crs,sa-sr, sbsph,mod-wl srt,rr-mnr lt gy arg mtx,tr-rr mod strg sil cmt, tr liths,tr pyr,tr glauc,frm-mod hd aggs,pr-mnr fr inf & vis por,no fluor.

COAL:blk,sbvit,ang,hd,tr pyr, vf laminated i/p.  
SANDSTONE:lt gy-lt olv gy, trnsi-trnspl,med-crs,sa-sr, sbsph,mod-wl srt,rr-mnr lt gy arg mtx,tr-rr mod strg sil cmt, tr liths,tr pyr,tr glauc,frm-mod hd aggs,pr-mnr fr inf & vis por,fluor.

FLUOR:(4420m-4435mMDRT)  
Tr,pl-mod brt yel wh-yel gn, pnpnt fluor,no vis oil stain, no vis cut,v slw blooming pl yel cut fluor,fst c/c,thn pl blu wh flm res,poor fluor.

SILTSTONE:med gy-med dk gy, olv gy,aren i/p,tr carb spks, tr carb lam,tr-rr nod pyr,tr glauc,tr-rr micmic,sft-frm, sbbkly.

COAL:blk,sbvit,ang,frm-mod hd,brITTLE i/p,tr pyr, vf laminated i/p.

SANDSTONE:lt gy-lt olv gy, trnsi-trnspl,f-v crs,ang-sr, sbelon-sbsph,pr srt,lt gy arg mtx,tr sil cmt,tr-rr liths,tr pyr, mod hd aggs,pr-mnr fr inf por,no fluor.

SILTSTONE:med gy-med dk gy, olv gy,aren i/p,tr carb spks, tr carb lam,tr-rr nod pyr,tr glauc,tr-rr micmic,sft-frm, sbbkly.

COAL:blk,sbvit,ang,frm-mod hd,brITTLE i/p,tr pyr, vf laminated i/p.

SILTSTONE:med gy-med dk gy, brn gy-olv gy,aren,tr carb spks, tr nod pyr,tr glauc,fr micmic, tr liths,sft-frm,sbbkly-amor.

SANDSTONE:lt gy-med lt gy, trnsi,f-crs,sa-sr,sbelon-sbsph,mod srt,lse,com fri, lt gy arg mtx,tr liths,tr pyr,

WOB:12.39kbs  
RPM:90.160  
SPP:2730psi  
FLW:606gpm

4500  
4510  
(2430.6)  
4520  
4530  
(2450.6)  
4540  
4550



4506.86mMD(2427.4mTVD)  
0.01°inc 167.57°az

4516.02mMD(2436.6mTVD)  
0.01°inc 120.47°az

63 / 11 / 13 / 10 / 3

West Kingfish W8A reached TD  
of 4335.00mMDRT(2456.67mTVDRT)  
(-2414.97mMDRT) at 07:30hrs on  
08/12/2009.

Projection to TD Survey:  
4535.00mMD(2455.57mTVD)  
0.02°inc 234.00°az

mod hd aggs,pr-fr inf por,  
no fluor.

SILTSTONE:med gy-med dk gy,  
brn gy-olv gy,aren,tr carb spks,  
tr nod pyr,tr glauc,tr micmic,  
tr liths,sft frm,sbbkly-amor.

SANDSTONE:it gy-med lt gy,  
trnsi,f-v crs,sa-sr,sbelon-  
sbsph,pr srt,lse,com fri,  
lt gy arg mtx,tr liths,tr pyr,  
mod hd aggs,fr inf por,  
no fluor.

SANDSTONE:it olv gy,  
f-v crs,sa-sr,sbsph,mod-pr  
srt,lse,com fri,tr liths,tr pyr,  
fr inf por,no fluor.

SANDSTONE:it olv gy,  
f-v crs,sa-sr,sbsph,mod  
srt,lse,com fri,tr liths,tr pyr,  
fr inf por,no fluor.