



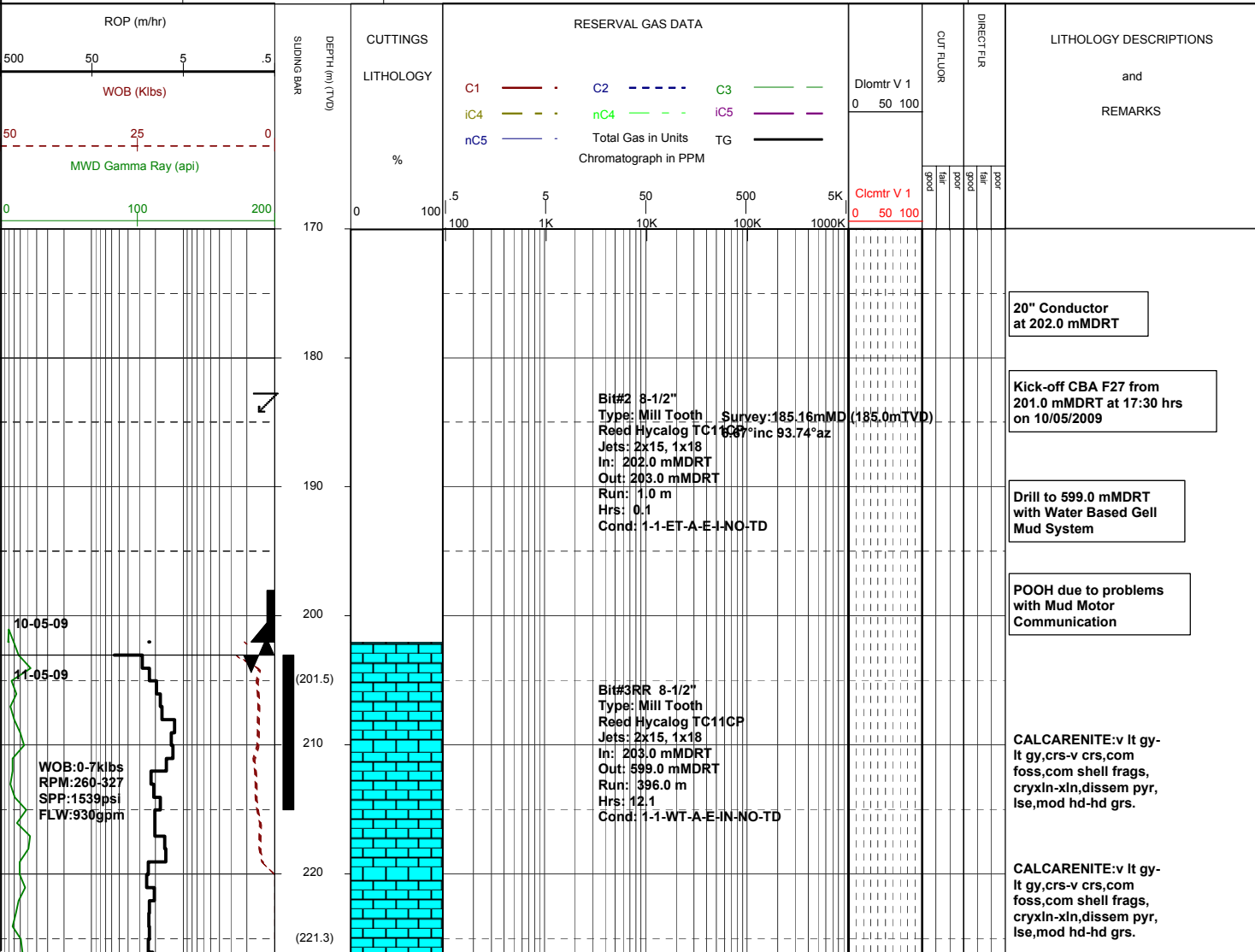
MASTERLOG

Cobia F27



GENERAL	SURFACE POSITION	HOLE / CASING INFO	DATE / DEPTH	ENGINEERS
Country : AUSTRALIA	Longitude :148°18'32.907" E	8-1/2" Hole to mMDRT	Kick off Date: 10/05/2009	Mark Smith
Permit : VIC / L5	Latitude : 38°26'57.469" S		Total Depth Date:	Gareth Munro
Field : COBIA	MGA Co-ord X :614236.56 mE	9-5/8" Casing to mMDRT	Total Depth: mMDRT	Colin Chadwick
Basin : GIPPSLAND	MGA Co-ord Y : 5743521.03 mN	10-3/4" Surface Csg at mMDRT	True Vertical Depth: mTVDRT	Phil Rady
Well Type :DEVELOPMENT	RT to MSL : 41.0 m	7" Production Csg at mMDRT	Log Scale : 1/ 500	Adam Sullivan
Rig Name : Nabors 175	RT to Sea Bed : 120.0 m			Kepa O'Reilly

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



MW:9.00
FV:51
PV:4
YP:30
O/W:-
HTHP:-
WPS:-

230

240

(241.2)

250

260

(261.1)

270

280

(280.9)

290

300

(300.7)

310

320

(320.2)

330

340

(339.6)

350

360

WOB:0.7klbs
RPM:260-327
SPP:1539psi
FLW:930gpm

Survey:278.28mMD (277.5mTVD)
6.82°inc 73.36°az

Survey:304.27mMD (303.2mTVD)
10.74°inc 48.62°az

Survey:337.13mMD (335.2mTVD)
15.60°inc 31.40°az

CALCARENITE:v lt gy-
lt gy,crs-v crs,tr vf,
abdt foss,abdt shell
frags,cryxln-xln,lse,
mod hd-hd grs.

CALCARENITE:lt gy-med
lt gy,f-med,rr crs,com
foss,com shell frags,tr
liths,xln,lse-uncons,
mod hd-hd grs.

CALCARENITE:lt gy-med
lt gy,f-med,rr crs,mnr
foss,mnr shell frags,tr
liths,xln,lse-fri,aggs,
mod hd-hd grs.

CALCARENITE:lt gy-med
lt gy,f-med,rr crs,mnr
foss,mnr shell frags,tr
liths,xln,lse-fri,aggs,
mod hd-hd grs.

CALCARENITE:lt gy-med
lt gy,f-med,rr crs,mnr
foss,mnr shell frags,tr
liths,xln,lse-fri,aggs,
mod hd-hd grs.

CALCARENITE:lt gy-med
lt gy,f-med,rr crs,mnr
foss,mnr shell frags,tr
liths,xln,lse-fri,aggs,
mod hd-hd grs.

CALCARENITE:lt gy-med
lt gy,f-med,rr crs,mnr
foss,mnr shell frags,tr
liths,xln,lse-fri,aggs,
mod hd-hd grs.

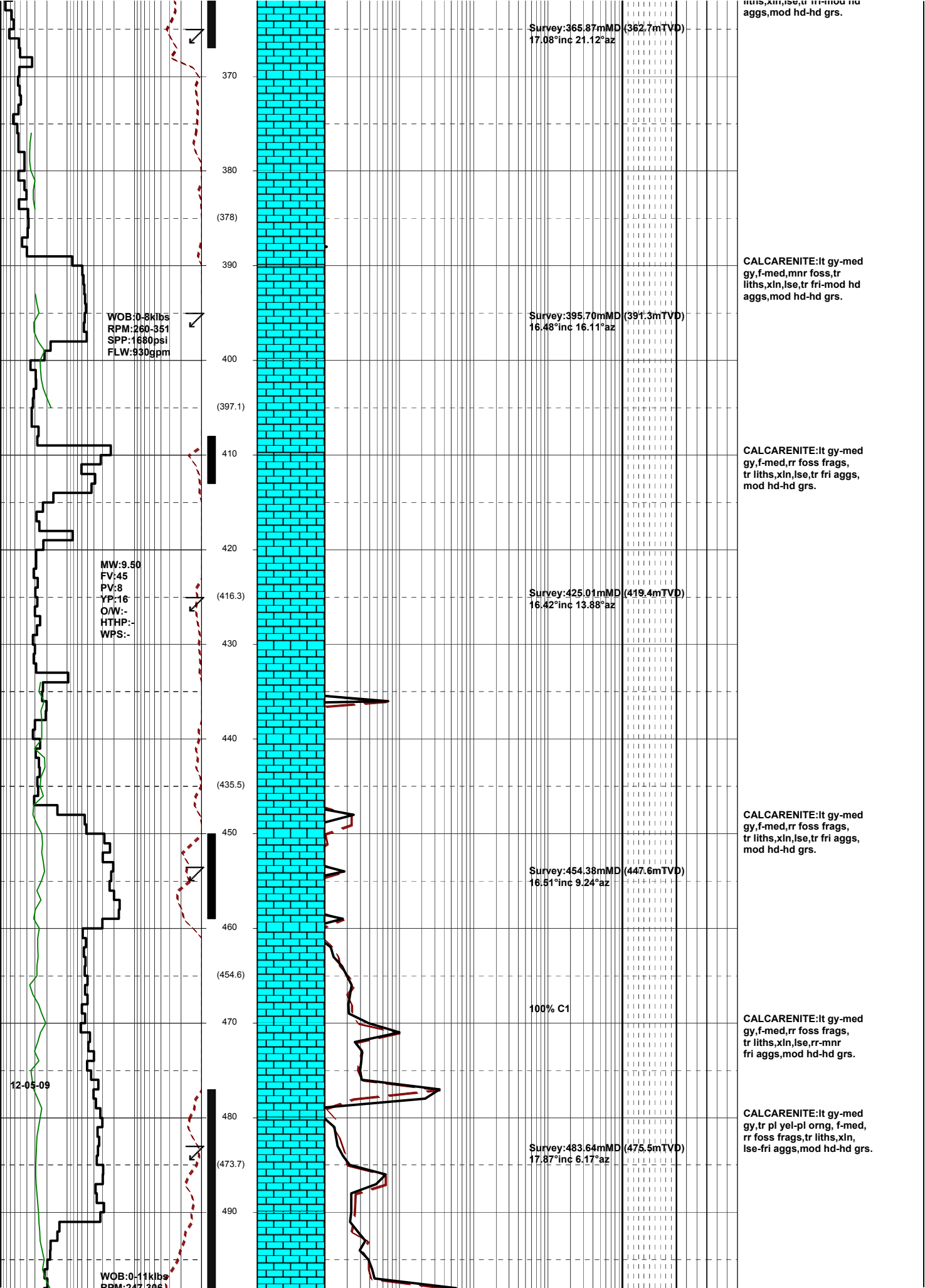
CALCARENITE:lt gy-med
lt gy,f-med,rr crs,mnr
foss,mnr shell frags,tr
liths,xln,lse-fri,aggs,
mod hd-hd grs.

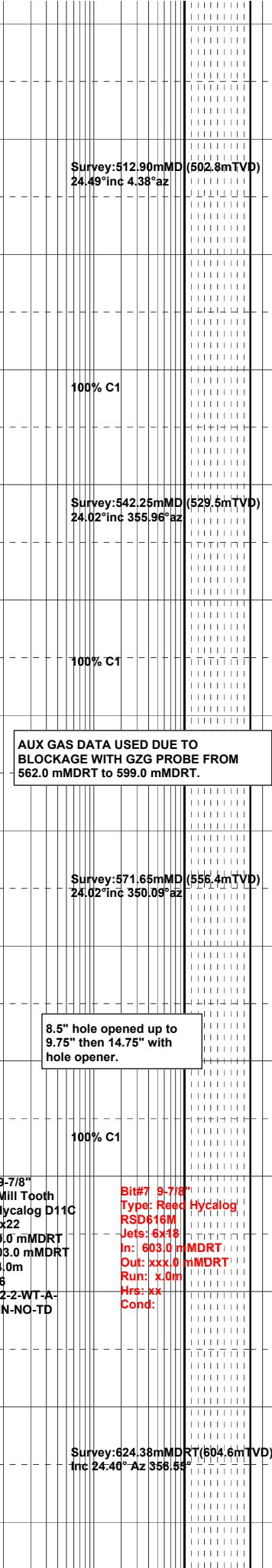
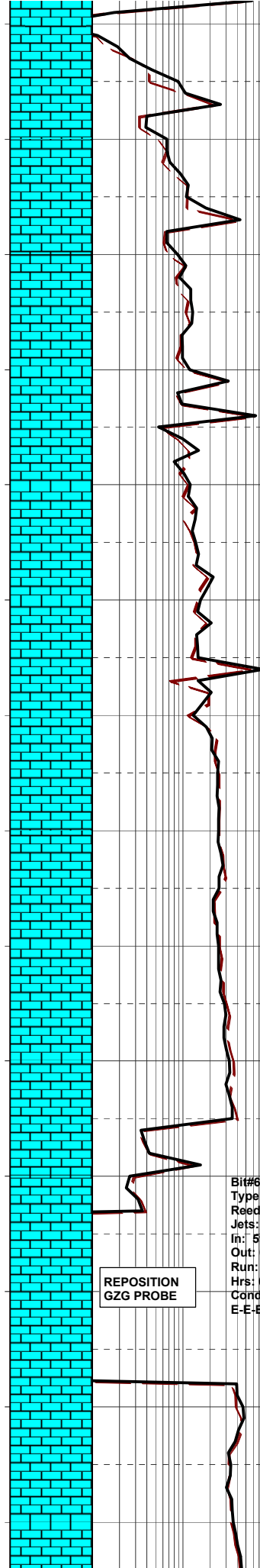
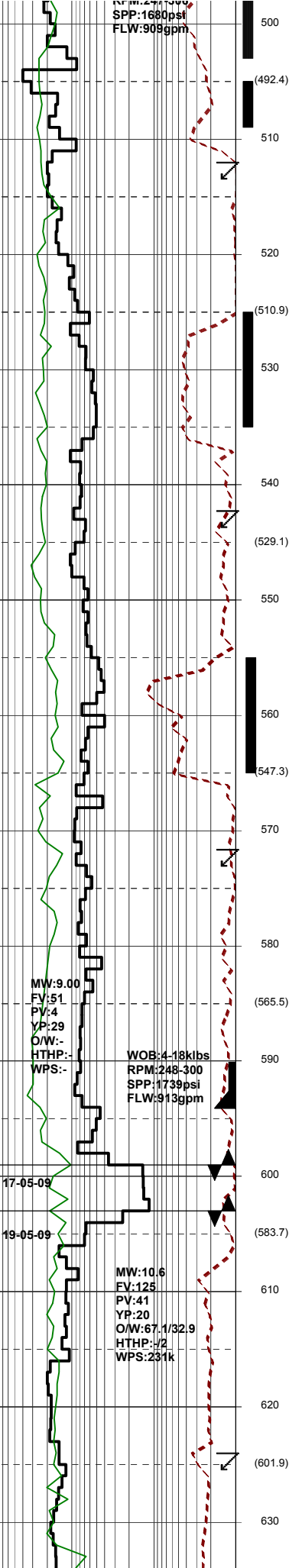
CALCARENITE:lt gy-med
gy,f-med,mnr foss,tr
liths,xln,lse,tr fri-mod hd
aggs,mod hd-hd grs.

CALCARENITE:lt gy-med
gy,f-med,mnr foss,tr
liths,xln,lse,tr fri-mod hd
aggs,mod hd-hd grs.

CALCARENITE:lt gy-med
gy,f-med,mnr foss,tr
liths,xln,lse,tr fri-mod hd
aggs,mod hd-hd grs.

CALCARENITE:lt gy-med
gy,f-med,mnr foss,tr
liths,xln,lse,tr fri-mod hd
aggs,mod hd-hd grs.





AUX GAS DATA USED DUE TO BLOCKAGE WITH GZG PROBE FROM 562.0 mMDRT to 599.0 mMDRT.

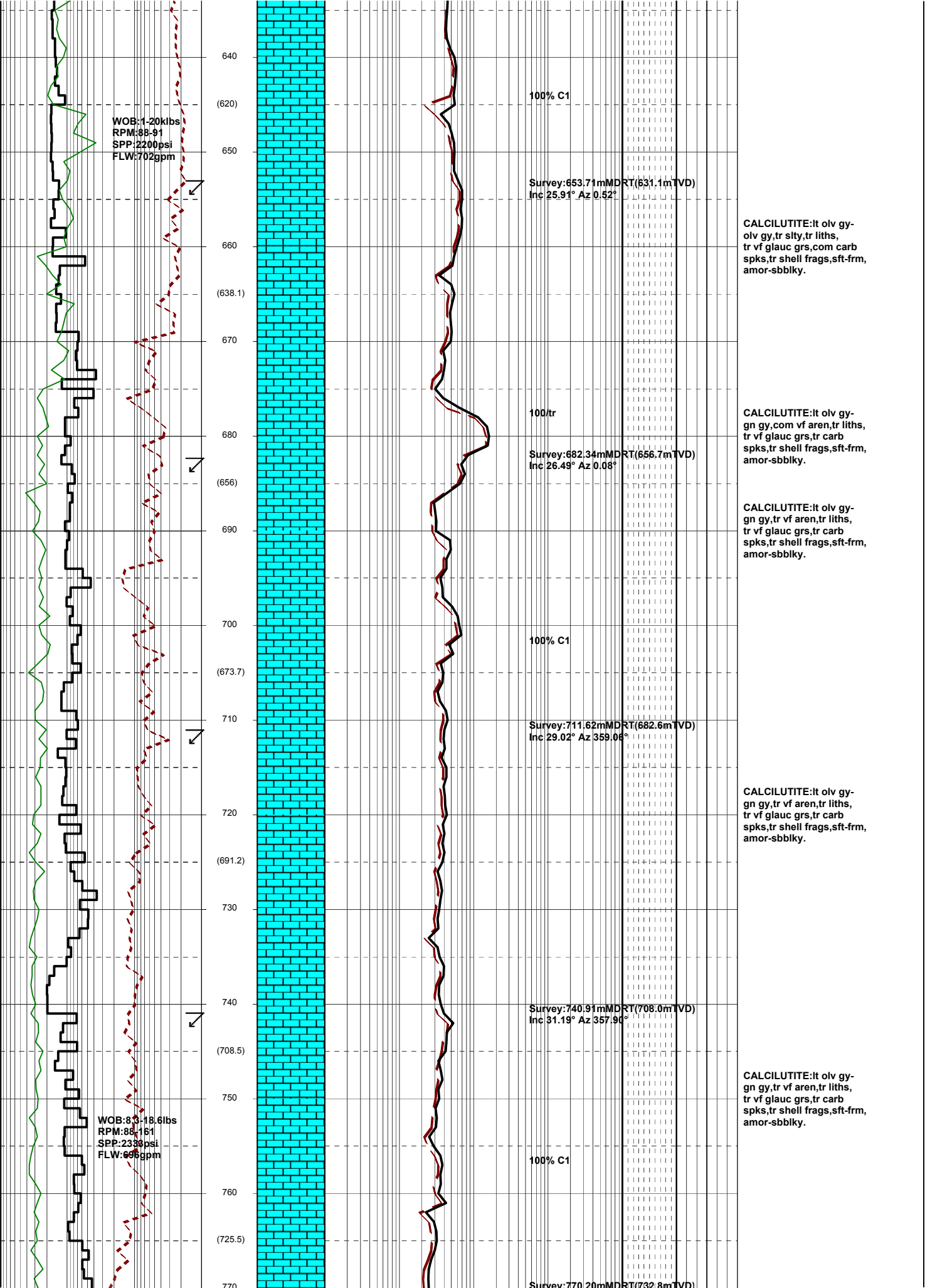
8.5" hole opened up to 9.75" then 14.75" with hole opener.

REPOSITION GZG PROBE

Bit#6 9-7/8"
 Type: Mill Tooth
 Reed Hycalog D11C
 Jets: 3x22
 In: 599.0 mMDRT
 Out: 603.0 mMDRT
 Run: 4.0m
 Hrs: 0.6
 Cond: 2-2-WT-A-E-E-E-IN-NO-TD

Bit#7 9-7/8"
 Type: Reed Hycalog
 RSD616M
 Jets: 6x18
 In: 603.0 mMDRT
 Out: xxx.0 mMDRT
 Run: x.0m
 Hrs: xx
 Cond:

CALCARENITE:lt gy-med gy, tr pl yel-pl orgn, f-med, rr foss frags, tr liths, xln, lse-fri aggs, mod hd-hd grs.
 CALCARENITE:lt gy-med lt gy, lt olv gy, f-med, mnr foss frags, tr liths, tr glauc grs, xln, lse, rr fri aggs, mod hd-hd grs.
 CALCARENITE:lt gy-med lt gy, lt olv gy, f-med, com foss frags, tr liths, tr glauc grs, xln, lse, rr fri aggs, mod hd-hd grs.
 CALCARENITE:med lt gy-lt olv gy, mnr foss, abdt shell frags, lse-fri, aggs, mod hd-hd grs.
 POOH to run hole opener.
 10.75" casing set @ 594.1 mMDRT
 PIT at 603.0 mMDRT 585.0 mTVDRT 268psi with 8.5ppg mud EMW = 13.2ppg
 Drill with NAF Accolade Mud System
 CALCILUTITE:lt olv gy-olv gy, sity, tr liths, tr glauc grs, sft frm, amor-sbbkly.



WOB: 1-20klbs
 RPM: 88-91
 SPP: 2200psi
 FLW: 702gpm

WOB: 83-18.6lbs
 RPM: 88-151
 SPP: 2333psi
 FLW: 696gpm

100% C1

Survey: 653.71mMDRT(631.1mTVD)
 Inc 25.91° Az 0.52°

100/tr

Survey: 682.34mMDRT(656.7mTVD)
 Inc 26.49° Az 0.08°

100% C1

Survey: 711.62mMDRT(682.6mTVD)
 Inc 29.02° Az 359.06°

Survey: 740.91mMDRT(708.0mTVD)
 Inc 31.19° Az 357.90°

100% C1

Survey: 770.20mMDRT(732.8mTVD)

CALCILUTITE: It olv gy, olv gy, tr slty, tr liths, tr vf glauc grs, com carb spks, tr shell frags, sft frm, amor-sbbiky.

CALCILUTITE: It olv gy, gn gy, com vf aren, tr liths, tr vf glauc grs, tr carb spks, tr shell frags, sft frm, amor-sbbiky.

CALCILUTITE: It olv gy, gn gy, tr vf aren, tr liths, tr vf glauc grs, tr carb spks, tr shell frags, sft frm, amor-sbbiky.

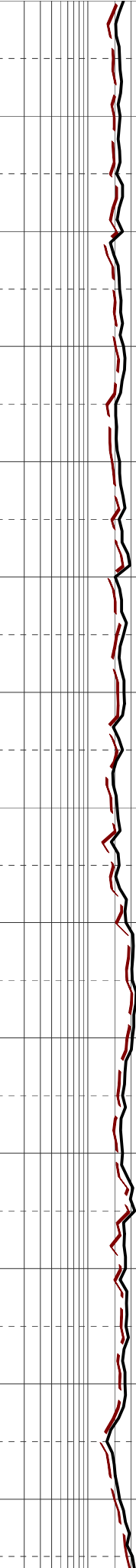
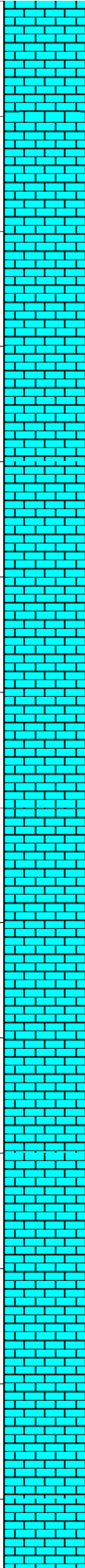
CALCILUTITE: It olv gy, gn gy, tr vf aren, tr liths, tr vf glauc grs, tr carb spks, tr shell frags, sft frm, amor-sbbiky.

CALCILUTITE: It olv gy, gn gy, tr vf aren, tr liths, tr vf glauc grs, tr carb spks, tr shell frags, sft frm, amor-sbbiky.

MW:10.9
FV:123
PV:50
YP:24
O/W:64.6/35.4
HTHP:-/2
WPS:205k

WOB:14.34klbs
RPM:120-161
SPP:2459psi
FLW:693gpm

770
780
(742.3)
790
800
(758.9)
810
820
(775.4)
830
840
(791.6)
850
860
(807.6)
870
880
(823.3)
890
900
(838.7)



Inc 32.66° Az 358.22°

Survey:798.90mMDRT(756.8mTVD)
Inc 32.03° Az 358.33°

100% C1

Survey:828.36mMDRT(781.0mTVD)
Inc 35.33° Az 358.55°

Survey:857.58mMDRT(804.6mTVD)
Inc 37.47° Az 356.55°

100% C1

Survey:886.78mMDRT(827.4mTVD)
Inc 39.39° Az 355.70°

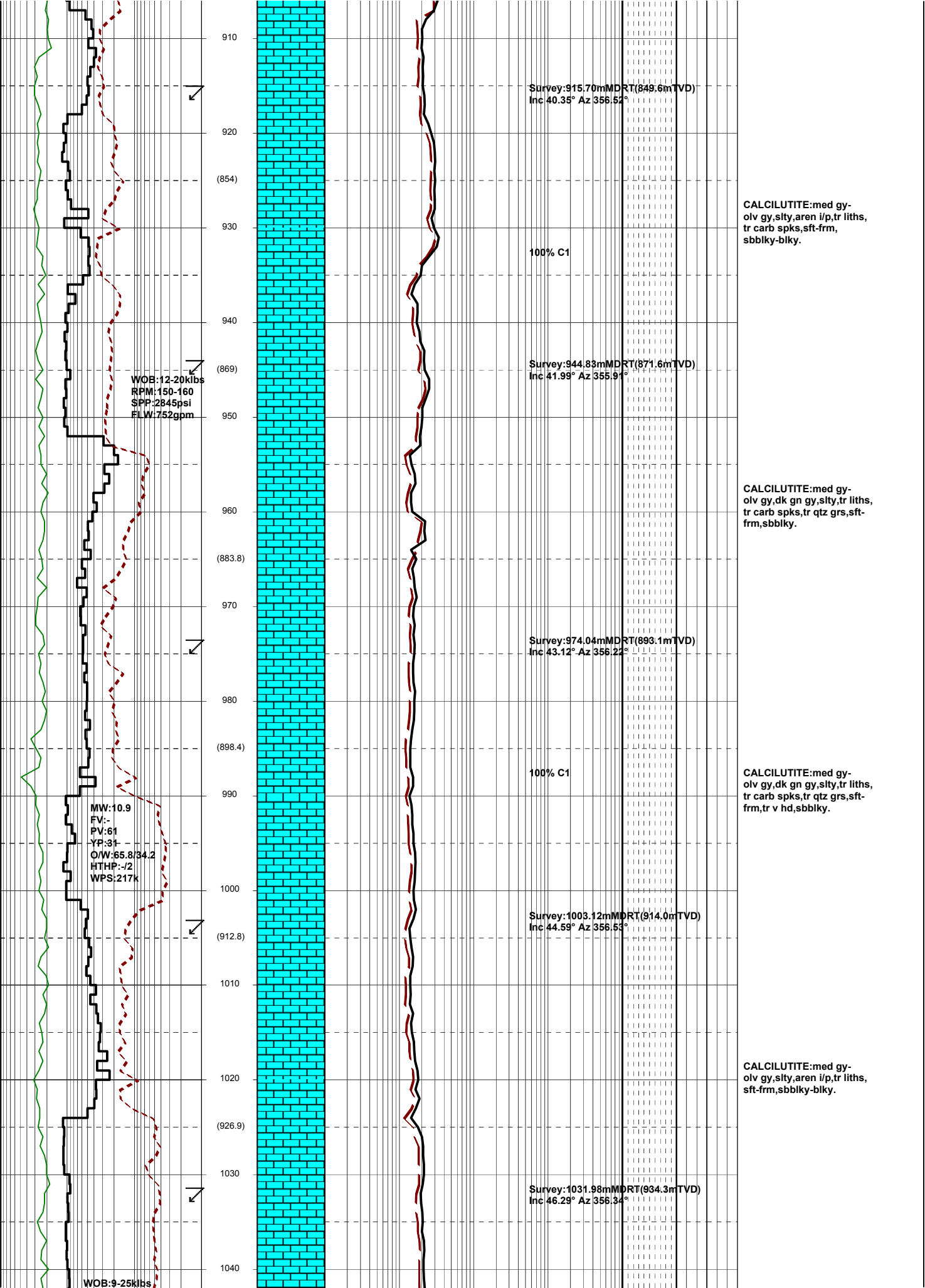
CALCILUTITE:It olv gy-
olv gy,silty,rr vf aren,
tr liths,tr carb spks,
sft-frm,amor-sbbkly.

CALCILUTITE:It olv gy-
olv gy,silty,occ vf aren,
tr liths,tr carb spks,
sft-frm,rr mod hd,sbbkly,
rr blkly.

CALCILUTITE:It olv gy-
olv gy,tr vf aren,tr vf
qtz grs,tr liths,tr carb
spks,sft-frm,rr mod hd,
sbbkly,rr blkly.

CALCILUTITE:It olv gy-
olv gy,tr vf aren,tr vf
qtz grs,tr liths,tr carb
spks,sft-frm,rr mod hd,
sbbkly,rr blkly.

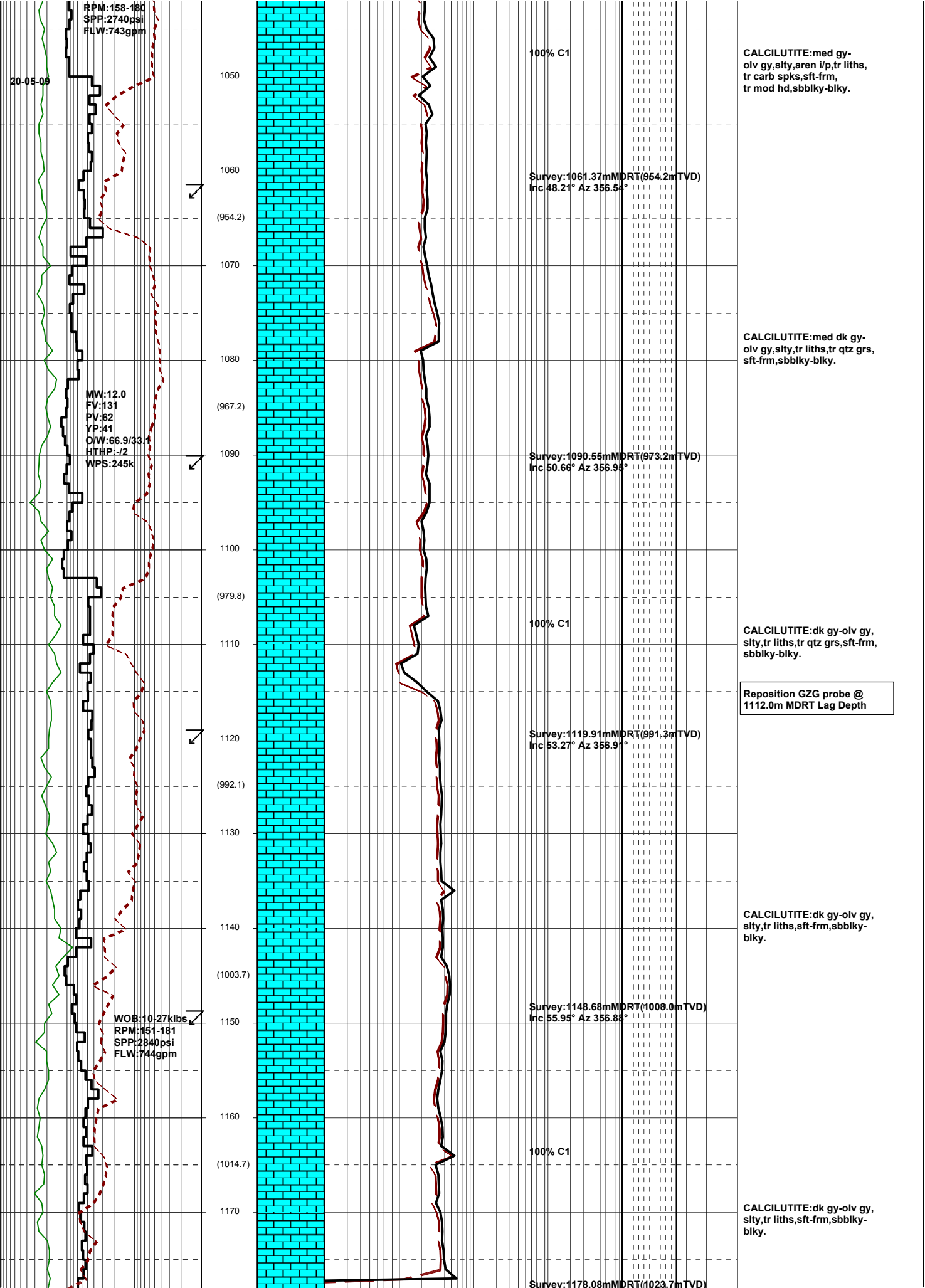
CALCILUTITE:med gy-olv gy,
silty,tr vf aren,tr vf qtz grs,tr
liths,tr carb spks,sft-frm,
sbbkly-blkly.



WOB: 12-20klbs
 RPM: 150-160
 SPP: 2845psi
 FLW: 752gpm

MW: 10.9
 FV: -
 PV: 61
 YP: 31
 O/W: 65.8/34.2
 HTHP: -12
 WPS: 217k

WOB: 9-25klbs



RPM:158-180
SPP:2740psi
FLW:743gpm

20-05-09

1050
1060
(954.2)
1070
1080
(967.2)
1090
1100
(979.8)
1110
1120
(992.1)
1130
1140
(1003.7)
1150
1160
(1014.7)
1170

MW:12.0
EV:131
PV:62
YP:41
O/W:66.9/33.1
HTHP:1/2
WPS:245k

WOB:10-27klbs
RPM:151-181
SPP:2840psi
FLW:744gpm

100% C1

Survey:1061.37mMDRT(954.2mTVD)
Inc 48.21° Az 356.54°

Survey:1090.55mMDRT(973.2mTVD)
Inc 50.66° Az 356.98°

100% C1

Survey:1119.91mMDRT(991.9mTVD)
Inc 53.27° Az 356.91°

Survey:1148.68mMDRT(1008.0mTVD)
Inc 55.95° Az 356.88°

100% C1

Survey:1178.08mMDRT(1023.7mTVD)

CALCILUTITE:med gy-olv gy,silty,aren i/p,tr liths, tr carb spks,sft-frm, tr mod hd,sbbkly-blky.

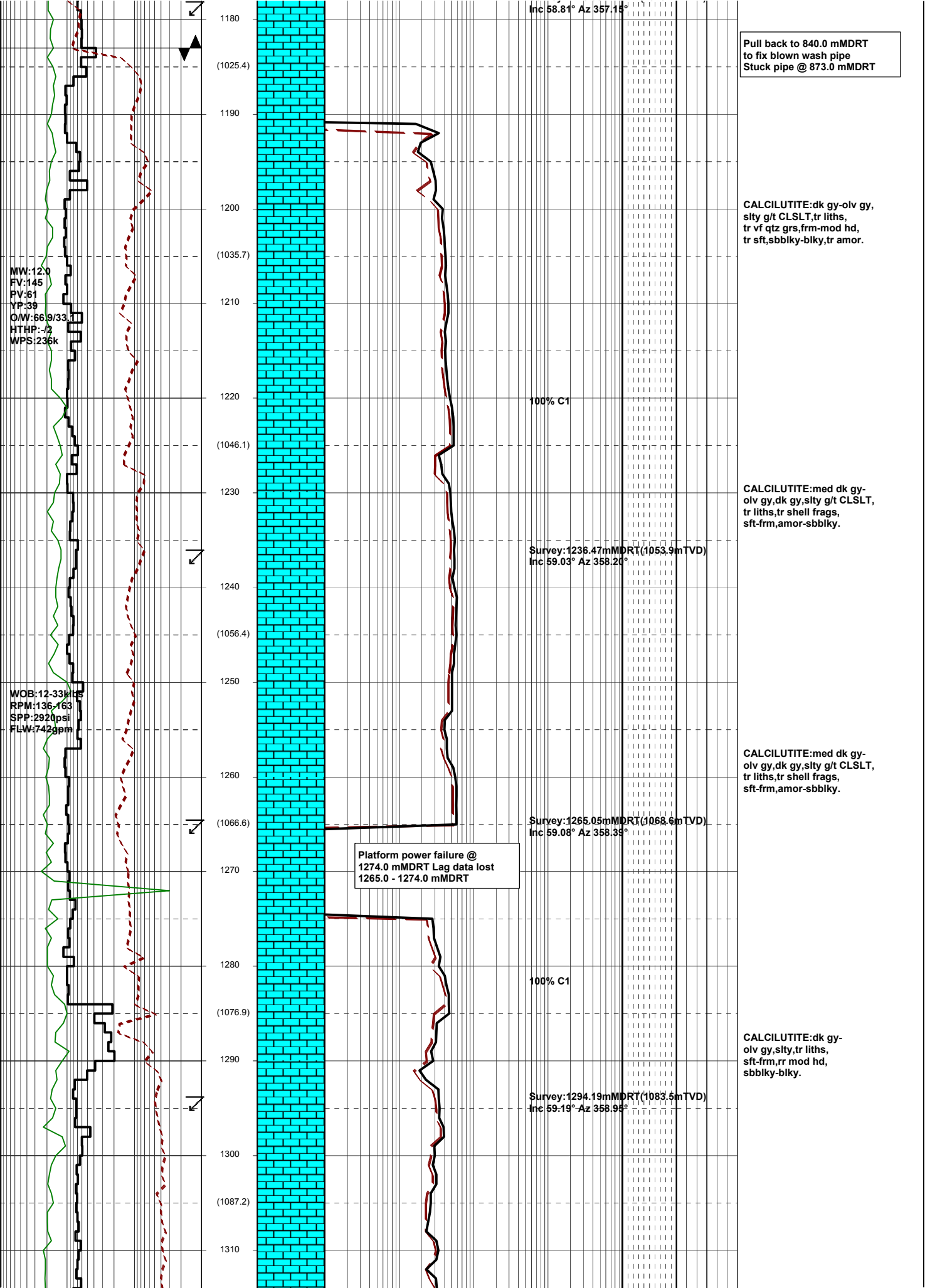
CALCILUTITE:med dk gy-olv gy,silty,tr liths,tr qtz grs, sft-frm,sbbkly-blky.

CALCILUTITE:dk gy-olv gy, slty, tr liths, tr qtz grs, sft-frm, sbbkly-blky.

Reposition GZG probe @ 1112.0m MDRT Lag Depth

CALCILUTITE:dk gy-olv gy, slty, tr liths, sft-frm, sbbkly-blky.

CALCILUTITE:dk gy-olv gy, slty, tr liths, sft-frm, sbbkly-blky.



Inc 58.81° Az 357.13°

Pull back to 840.0 mMDRT
to fix blown wash pipe
Stuck pipe @ 873.0 mMDRT

MW:12.0
FV:145
PV:61
YP:39
O/W:66.9/33.1
HTHP:-/2
WPS:236k

WOB:12.33kts
RPM:136-163
SPP:2920psi
FLW:742gpm

1180
(1025.4)
1190
1200
(1035.7)
1210
1220
(1046.1)
1230
1240
(1056.4)
1250
1260
(1066.6)
1270
1280
(1076.9)
1290
1300
(1087.2)
1310

100% C1

Survey: 1236.47mMDRT (1053.9mTVD)
Inc 59.03° Az 358.20°

Survey: 1265.05mMDRT (1068.6mTVD)
Inc 59.08° Az 358.39°

Platform power failure @
1274.0 mMDRT Lag data lost
1265.0 - 1274.0 mMDRT

100% C1

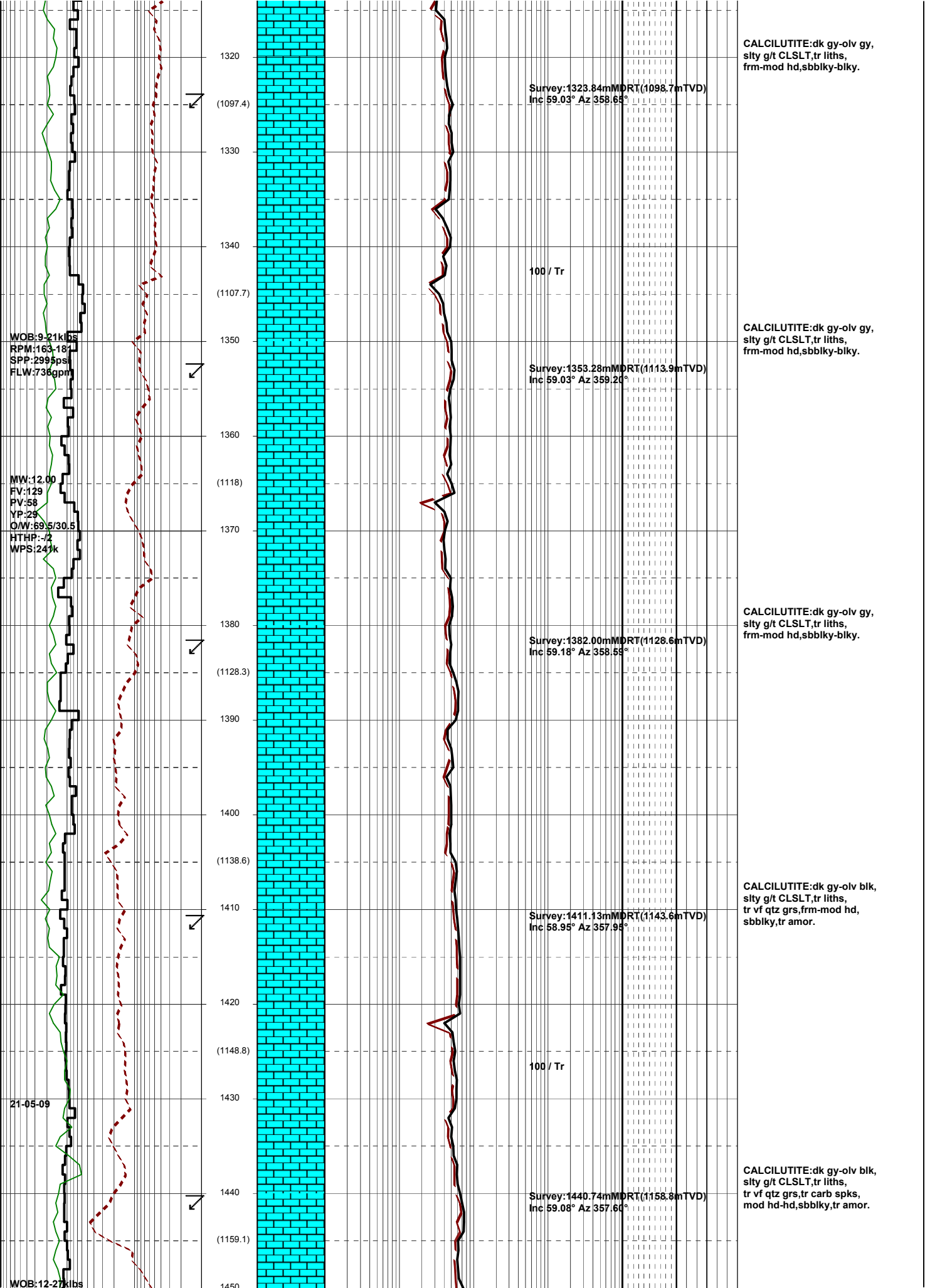
Survey: 1294.19mMDRT (1083.5mTVD)
Inc 59.19° Az 358.95°

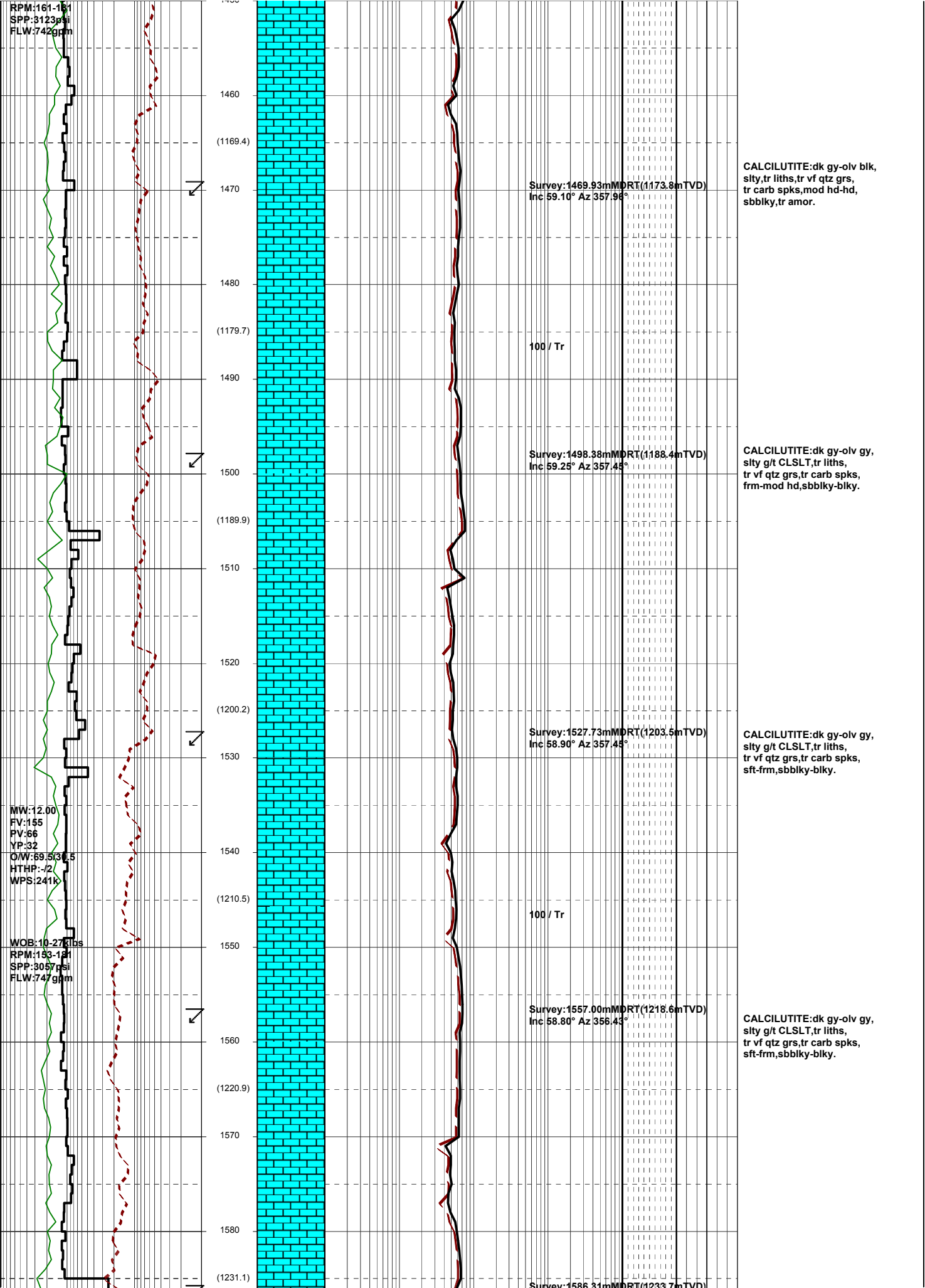
CALCILUTITE:dk gy-olv gy,
sity g/t CLSLT,tr liths,
tr vf qtz grs,frm-mod hd,
tr sft,sbbiky-blky,tr amor.

CALCILUTITE:med dk gy-
olv gy,dk gy,sity g/t CLSLT,
tr liths,tr shell frags,
sft-frm,amor-sbbiky.

CALCILUTITE:med dk gy-
olv gy,dk gy,sity g/t CLSLT,
tr liths,tr shell frags,
sft-frm,amor-sbbiky.

CALCILUTITE:dk gy-
olv gy,sity,tr liths,
sft-frm,rr mod hd,
sbbiky-blky.





RPM:161-184
SPP:3123psi
FLW:742gpm

MW:12.00
FV:155
PV:66
YP:32
O/W:69.5/30.5
HTHP:-/2
WPS:241k

WOB:10-27klbs
RPM:193-194
SPP:3057psi
FLW:747gpm

1460
(1169.4)
1470
1480
(1179.7)
1490
1500
(1189.9)
1510
1520
(1200.2)
1530
1540
(1210.5)
1550
1560
(1220.9)
1570
1580
(1231.1)

Survey:1469.93mMDRT(1173.8mTVD)
Inc 59.10° Az 357.98°

100 / Tr

Survey:1498.38mMDRT(1188.4mTVD)
Inc 59.25° Az 357.45°

Survey:1527.73mMDRT(1203.5mTVD)
Inc 58.90° Az 357.45°

100 / Tr

Survey:1557.00mMDRT(1218.6mTVD)
Inc 58.80° Az 356.43°

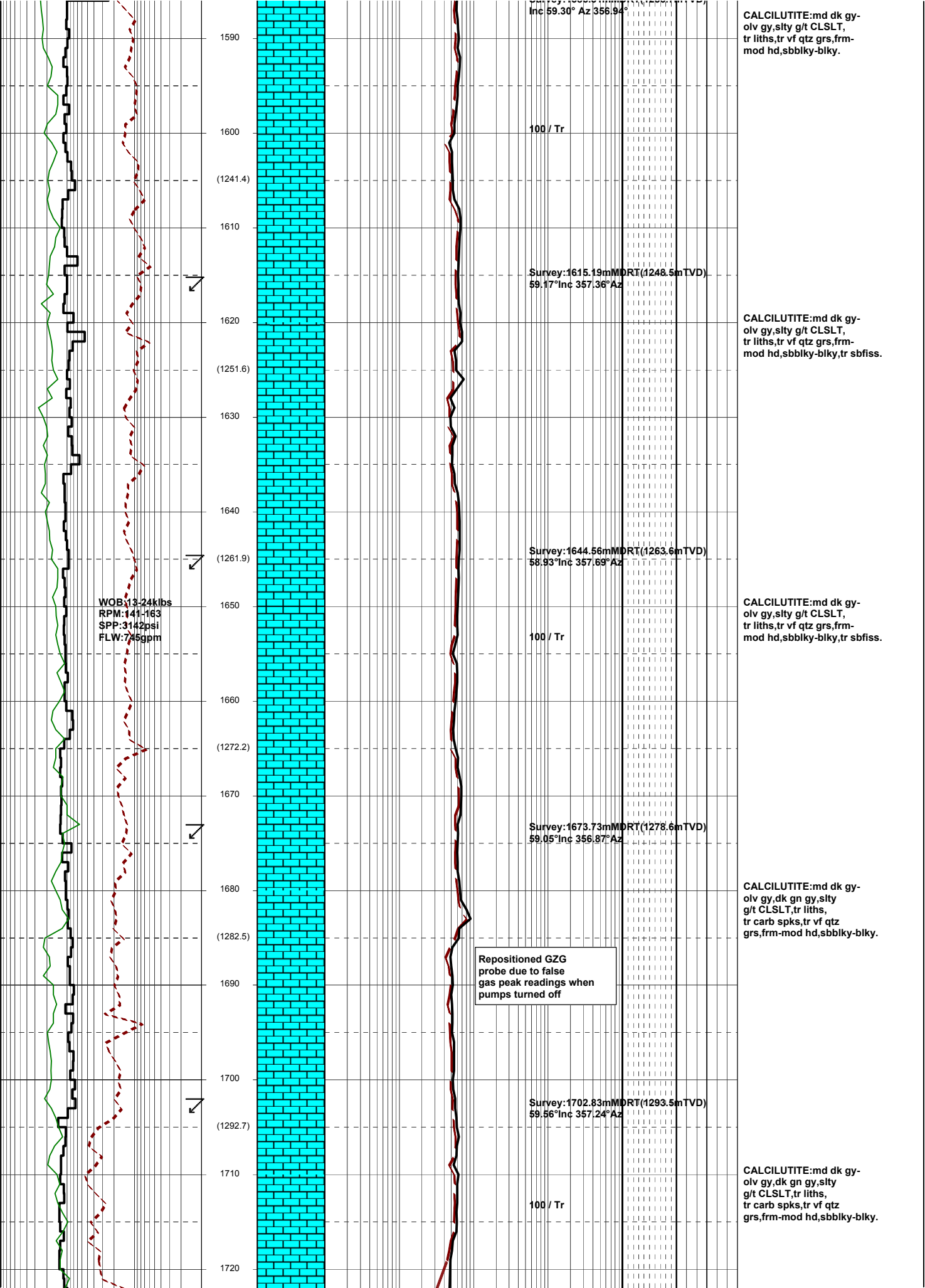
Survey:1586.31mMDRT(1233.7mTVD)

CALCILUTITE: dk gy-olv blk, slty, tr liths, tr vf qtz grs, tr carb spks, mod hd-hd, sbbkly, tr amor.

CALCILUTITE: dk gy-olv gy, slty g/t CLSLT, tr liths, tr vf qtz grs, tr carb spks, frm-mod hd, sbbkly-blky.

CALCILUTITE: dk gy-olv gy, slty g/t CLSLT, tr liths, tr vf qtz grs, tr carb spks, sft-frm, sbbkly-blky.

CALCILUTITE: dk gy-olv gy, slty g/t CLSLT, tr liths, tr vf qtz grs, tr carb spks, sft-frm, sbbkly-blky.



WOB: 13-24kbs
RPM: 141-163
SPP: 3142psi
FLW: 745gpm

Repositioned GZG probe due to false gas peak readings when pumps turned off

CALCILUTITE:md dk gy-olv gy,slty g/t CLSLT, tr liths,tr vf qtz grs,frm-mod hd,sbblky-blky.

CALCILUTITE:md dk gy-olv gy,slty g/t CLSLT, tr liths,tr vf qtz grs,frm-mod hd,sbblky-blky, tr sbfiss.

CALCILUTITE:md dk gy-olv gy,slty g/t CLSLT, tr liths,tr vf qtz grs,frm-mod hd,sbblky-blky, tr sbfiss.

CALCILUTITE:md dk gy-olv gy,dk gn gy,slty g/t CLSLT, tr liths, tr carb spks,tr vf qtz grs,frm-mod hd,sbblky-blky.

CALCILUTITE:md dk gy-olv gy,dk gn gy,slty g/t CLSLT, tr liths, tr carb spks,tr vf qtz grs,frm-mod hd,sbblky-blky.

MW:12.00
EV:140
PV:67
YP:30
O/W:70.0/30.0
HTHP:-/2
WPS:235k

WOB:19.5-36.4klbs
RPM:157-163
SPP:3264psi
FLW:745gpm

WOB:29.2-42.8klbs
RPM:158-161
SPP:3275psi
FLW:748gpm

1730

1740

(1313.2)

1750

1760

(1323.5)

1770

1780

(1333.8)

1790

1800

(1344.1)

1810

1820

(1354.4)

1830

1840

(1364.6)

1850

Survey:1731.58mMDRT(1308.2mTVD)
58.96°Inc 356.95°Az

Survey:1760.80mMDRT(1323.2mTVD)
59.01°Inc 357.63°Az

Survey:1790.05mMDRT(1338.3mTVD)
58.83°Inc 357.77°Az

Survey:1819.40mMDRT(1353.4mTVD)
59.28°Inc 357.08°Az

Survey:1848.12mMDRT(1368.1mTVD)
59.27°Inc 357.85°Az

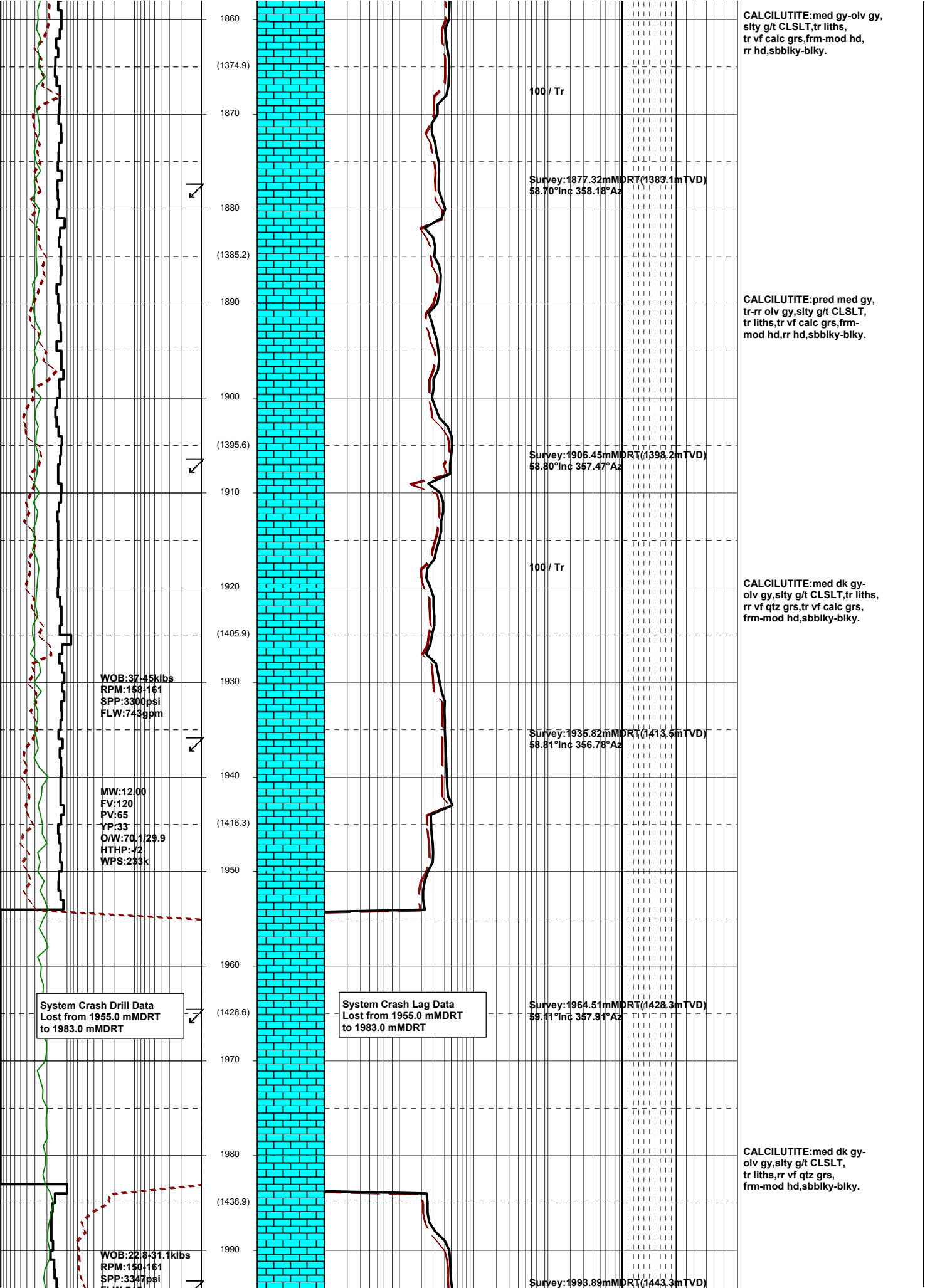
CALCILUTITE:med gy-olv gy,
silty g/t CLSLT,tr liths,
tr f qtz grs,rr f calc grs,
sft-frm,amor-sbbkly,rr blkly.

CALCILUTITE:med gy-olv gy,
silty g/t CLSLT,tr liths,
tr vf qtz grs,tr vf calc grs,
sft-frm,amor-sbbkly,rr blkly.

CALCILUTITE:med gy-olv gy,
silty g/t CLSLT,tr liths,
tr vf calc grs,tr vf calc grs,
sft-frm,amor-sbbkly,rr blkly.

CALCILUTITE:med gy-olv gy,
silty g/t CLSLT,tr liths,
tr vf calc grs,frm-mod hd,
rr hd,sbbkly-blkly.

100 / Tr



1860
(1374.9)
1870
1880
(1385.2)
1890
1900
(1395.6)
1910
1920
(1405.9)
1930
1940
(1416.3)
1950
1960
(1426.6)
1970
1980
(1436.9)
1990

100 / Tr

Survey: 1877.32mMDRT(1383.1mTVD)
58.70°Inc 358.18°Az

Survey: 1906.45mMDRT(1398.2mTVD)
58.80°Inc 357.47°Az

100 / Tr

Survey: 1935.82mMDRT(1413.5mTVD)
58.81°Inc 356.78°Az

Survey: 1964.51mMDRT(1428.3mTVD)
59.11°Inc 357.91°Az

Survey: 1993.89mMDRT(1443.3mTVD)

WOB:37.45klbs
RPM:158-161
SPP:3300psi
FLW:743gpm

MW:12.00
FV:120
PV:65
YP:33
O/W:70.1/29.9
HTHP:-72
WPS:233k

System Crash Drill Data
Lost from 1955.0 mMDRT
to 1983.0 mMDRT

System Crash Lag Data
Lost from 1955.0 mMDRT
to 1983.0 mMDRT

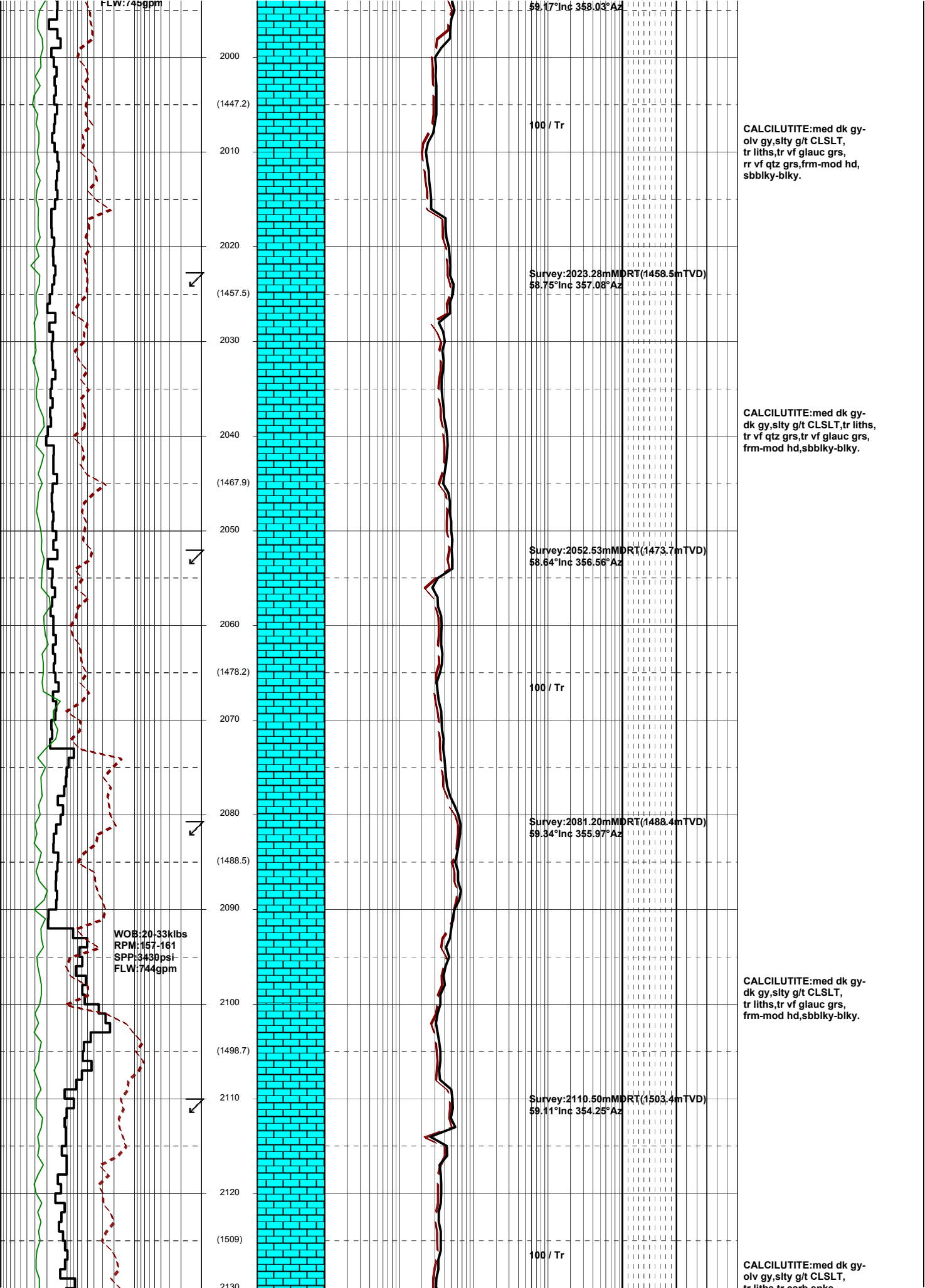
WOB:22.8-31.1klbs
RPM:150-161
SPP:3347psi

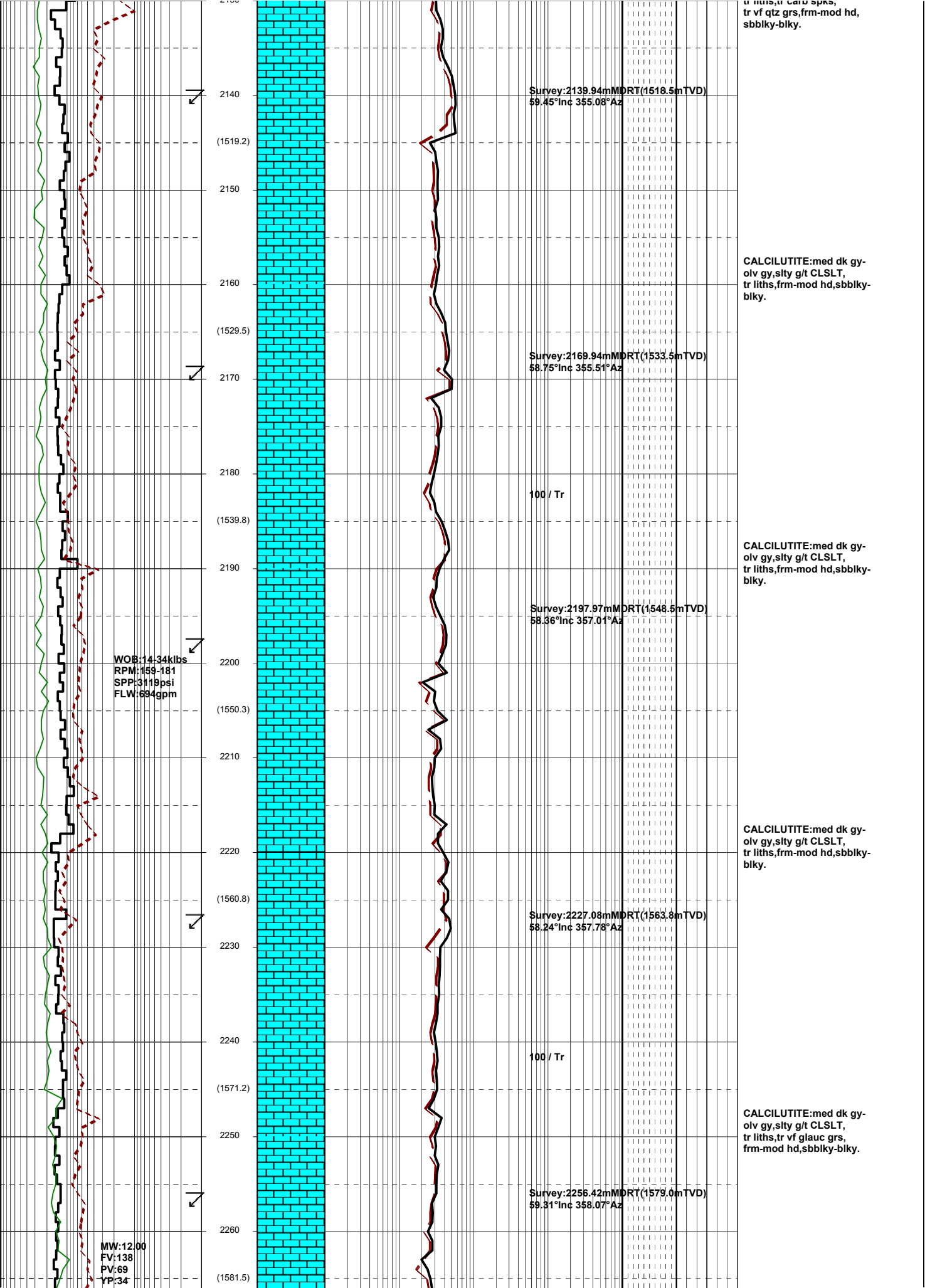
CALCILUTITE: med gy-olv gy,
silty g/t CLSLT, tr liths,
tr vf calc grs, frm-mod hd,
rr hd, sbbiky-blky.

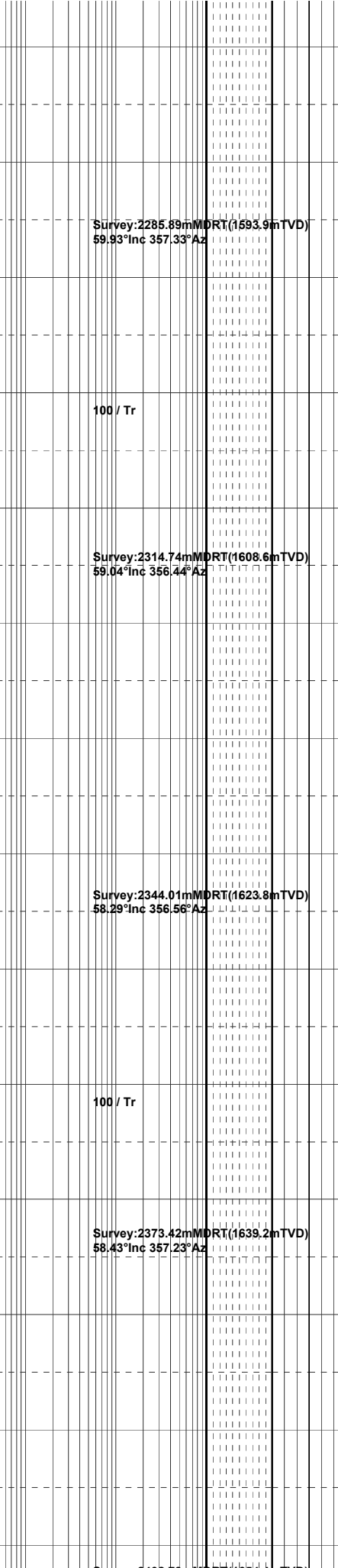
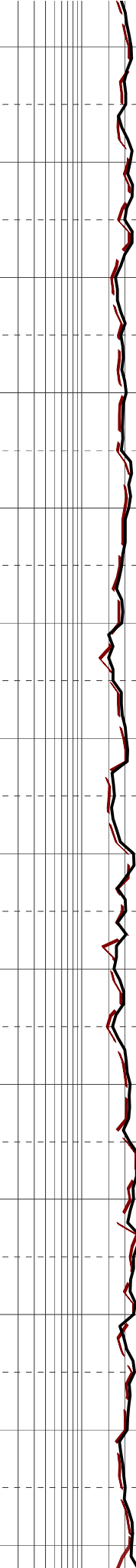
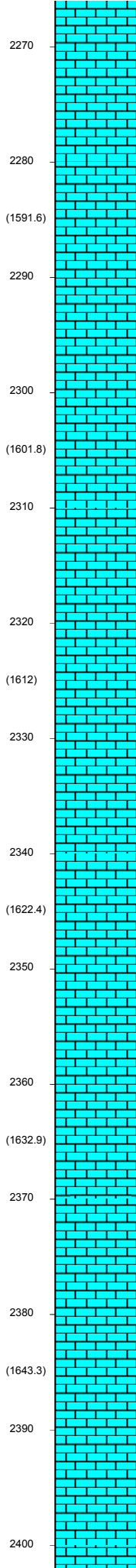
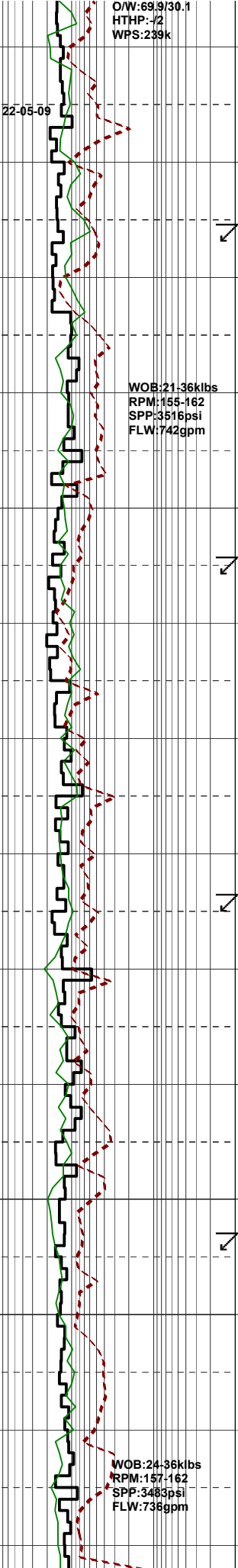
CALCILUTITE: pred med gy,
tr-rr olv gy, silty g/t CLSLT,
tr liths, tr vf calc grs, frm-
mod hd, rr hd, sbbiky-blky.

CALCILUTITE: med dk gy-
olv gy, silty g/t CLSLT, tr liths,
rr vf qtz grs, tr vf calc grs,
frm-mod hd, sbbiky-blky.

CALCILUTITE: med dk gy-
olv gy, silty g/t CLSLT,
tr liths, rr vf qtz grs,
frm-mod hd, sbbiky-blky.







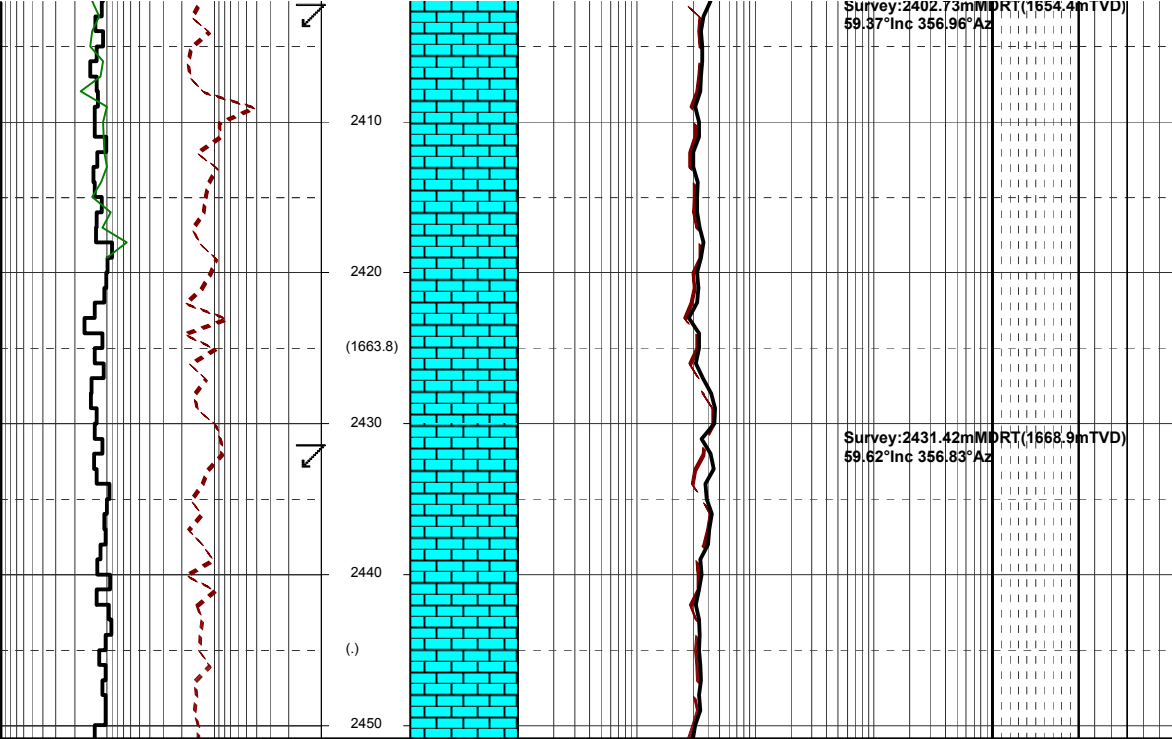
CALCILUTITE: dk gy-olv gy, sity g/t CLSLT, tr liths, tr vf calc grs, tr vf glauc grs, frm-mod hd, sbbly-blyk.

CALCILUTITE: dk gy-olv gy, sity g/t CLSLT, tr liths, tr vf calc grs, tr vf glauc grs, frm-mod hd, sbbly-blyk.

CALCILUTITE: dk gy-olv gy, sity g/t CLSLT, tr liths, tr vf calc grs, tr vf glauc grs, frm-mod hd, sbbly-blyk.

CALCILUTITE: med dk gy-olv gy, sity g/t CLSLT, tr liths, tr carb spks, tr vf calc grs, frm-mod hd, sbblyk.

CALCILUTITE: med dk gy-olv gy, sity g/t CLSLT, tr liths, tr carb spks, tr vf calc grs, frm-mod hd, sbblyk.



CALCILUTITE: med dk gy-
 dk gy, olv gy, sily g/t CLSLT,
 tr liths, tr carb spks,
 tr vf glauc grs, frm-hd, sbbiky-
 blkly.