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		Log Scale : 1/ 500	Adam Sullivan
Rig Name : Nabors 175	RT to Sea Bed : 120.0 m	7" Production Csg at mMDRT		Kepa O'Reilly

ABBREVIATIONS

MW	Mud Weight	WOB	Weight on Bit (klbs)
FV	Funnel Viscosity	RPM	Rotations Per Min
PV	Plastic Viscosity	FLW	Flow Rate (gpm)
YP	Yield Point	SPP	Pump Pressure (psi)
O/W	Oil/Water Ratio	RR	Re-Run Bit
WPS	Aq. Phase Salinity	TG	Trip Gas
HPHT	Fluid Loss	CG	Connection Gas
Cl	Chlorides	BG	Background Gas
Incl	Inclination	DGP	Drilled Gas Peak
Az	Azimuth	MM	Mud Motor

LITHOLOGY LEGEND

Claystone, Marl, Bryozoae, Glauconite
Siltstone, Limestone, Radiolariae, Pyrite
Fine sandstone, Dolomite, Echinoids
Shale, Coal-lignite, Foraminiferae
Conglomerate, Volcanic cinder, tu, Cement

ENGINEERING LEGEND

Casing shoe, RFT, MDT
Casing Top
Survey, Mud gain
Sidewall core, Mud loss
Core, Sliding Bar

ROP (m/hr) 500 50 5 .5
WOB (Klbs) 50 25 0
MWD Gamma Ray (api) 0 100 200
SLIDING BAR
DEPTH (m) (TVD)
CUTTINGS LITHOLOGY
RESERVAL GAS DATA
C1 C2 C3 iC4 nC4 iC5 nC5 Total Gas in Units TG
Chromatograph in PPM
% 0 100
.5 5 50 500 5K
100 1K 10K 100K 1000K
Dlomtr V 1 0 50 100
Clcmtr V 1 0 50 100
CUT FLUOR good fair poor
DIRECT FLR good fair poor
LITHOLOGY DESCRIPTIONS and REMARKS

170
180
190
200
(201.5)
210
220
(221.3)

10-05-09
11-05-09

WOB:0-7klbs
RPM:260-327
SPP:1539psi
FLW:930gpm

20" Conductor at 202.0 mMDRT

Kick-off CBA F27 from 201.0 mMDRT at 17:30 hrs on 10/05/2009

Bit#2 8-1/2"
Type: Mill Tooth Survey:185.16mMD (185.0mTVD)
Reed Hycalog TC11CP 0.67°inc 93.74°az
Jets: 2x15, 1x18
In: 202.0 mMDRT
Out: 203.0 mMDRT
Run: 1.0 m
Hrs: 0.1
Cond: 1-1-ET-A-E-I-NO-TD

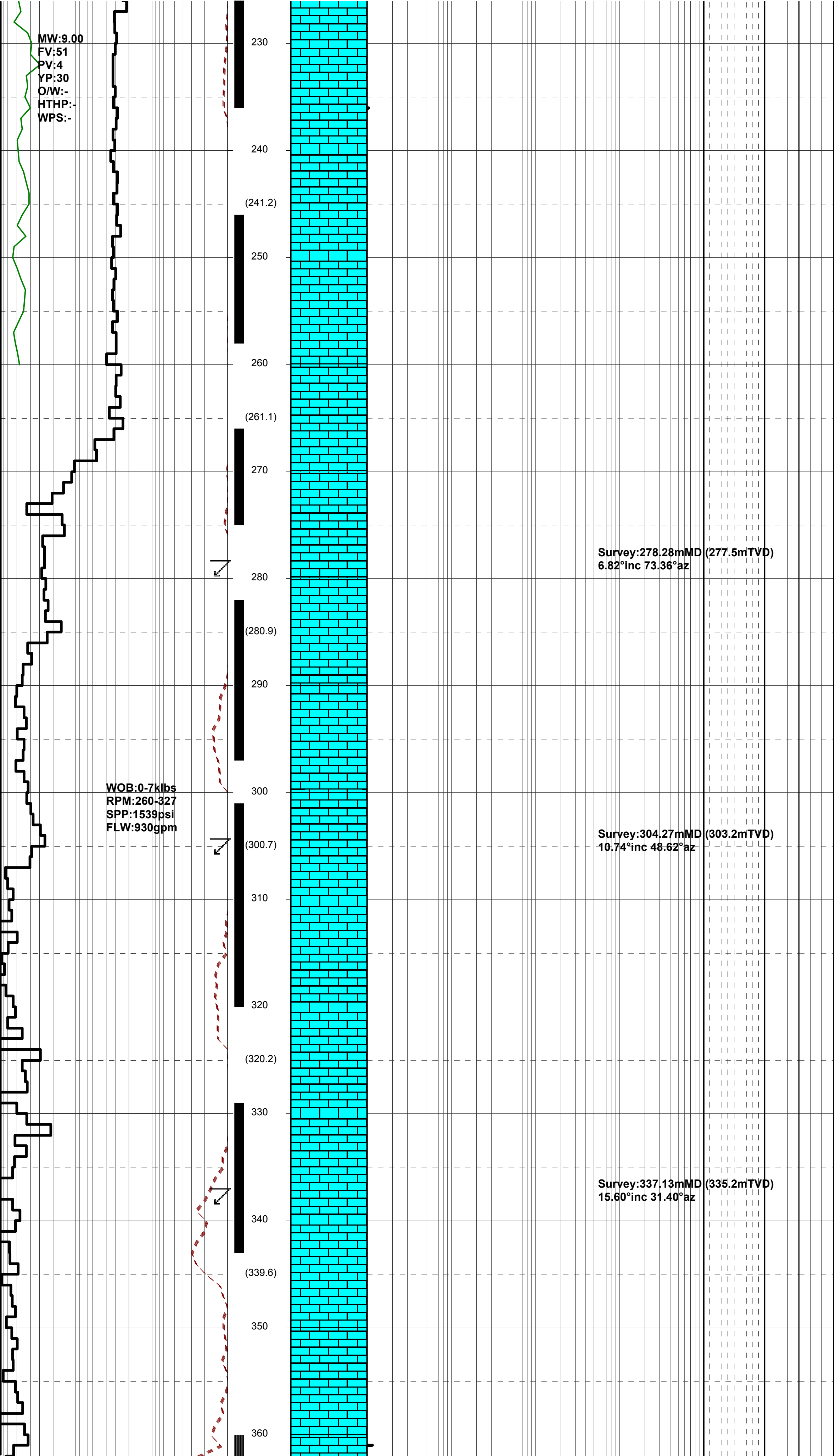
Drill to 599.0 mMDRT with Water Based Gell Mud System

POOH due to problems with Mud Motor Communication

Bit#3RR 8-1/2"
Type: Mill Tooth
Reed Hycalog TC11CP
Jets: 2x15, 1x18
In: 203.0 mMDRT
Out: 599.0 mMDRT
Run: 396.0 m
Hrs: 12.1
Cond: 1-1-WT-A-E-IN-NO-TD

CALCARENITE:v lt gy-lt gy,crs-v crs,com foss,com shell frags, cryxln-xln,dissem pyr, lse,mod hd-hd grs.

CALCARENITE:v lt gy-lt gy,crs-v crs,com foss,com shell frags, cryxln-xln,dissem pyr, lse,mod hd-hd grs.



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.

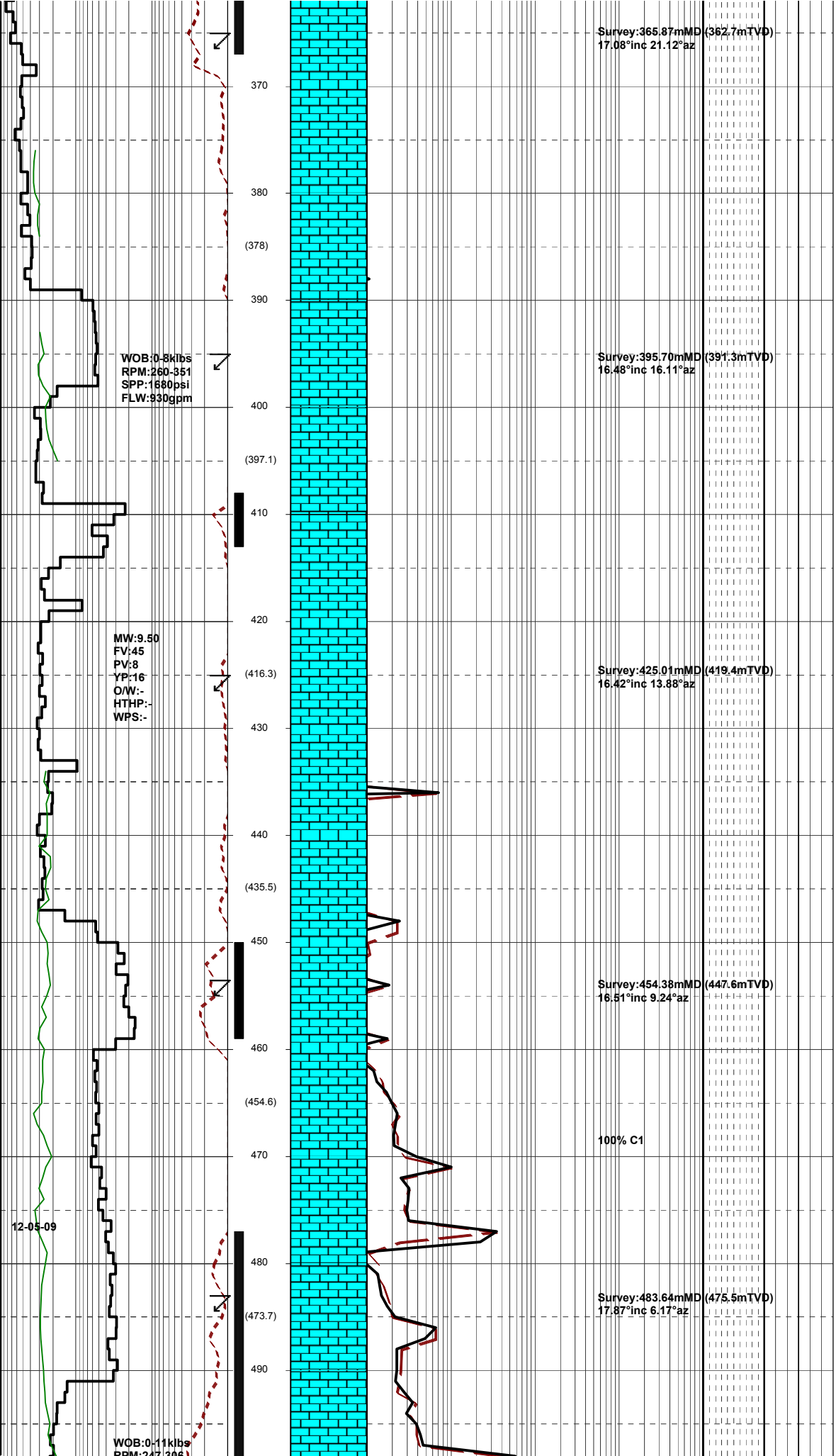
CALCARENITE:lt gy-med lt gy,f-med,rr crs,mnr foss,mnr shell frags,tr liths,xln,lse-fri,aggs, mod hd-hd grs.

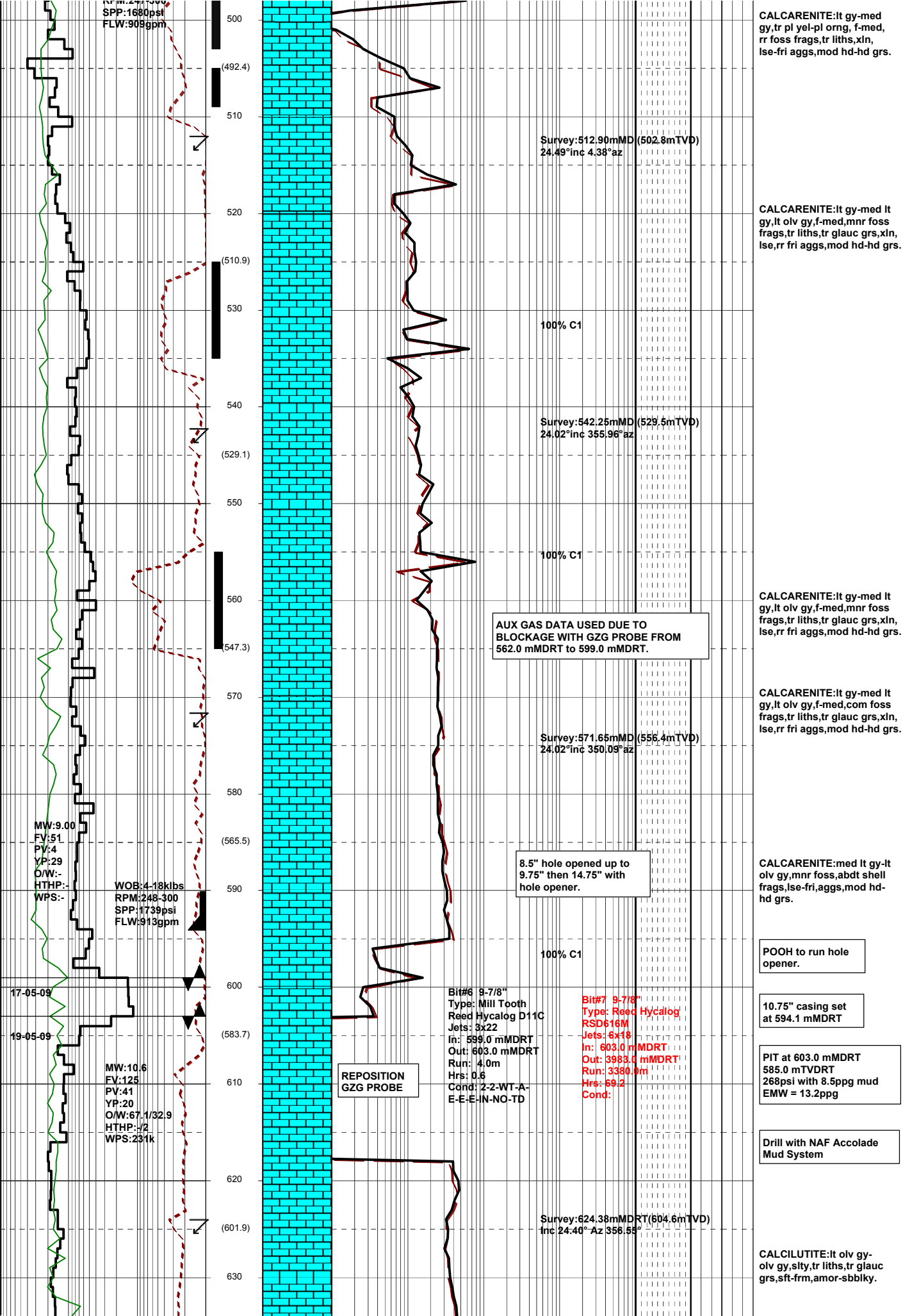
CALCARENITE:lt gy-med gy,f-med,mnr foss,tr liths,xln,lse,tr fri-mod hd aggs,mod hd-hd grs.

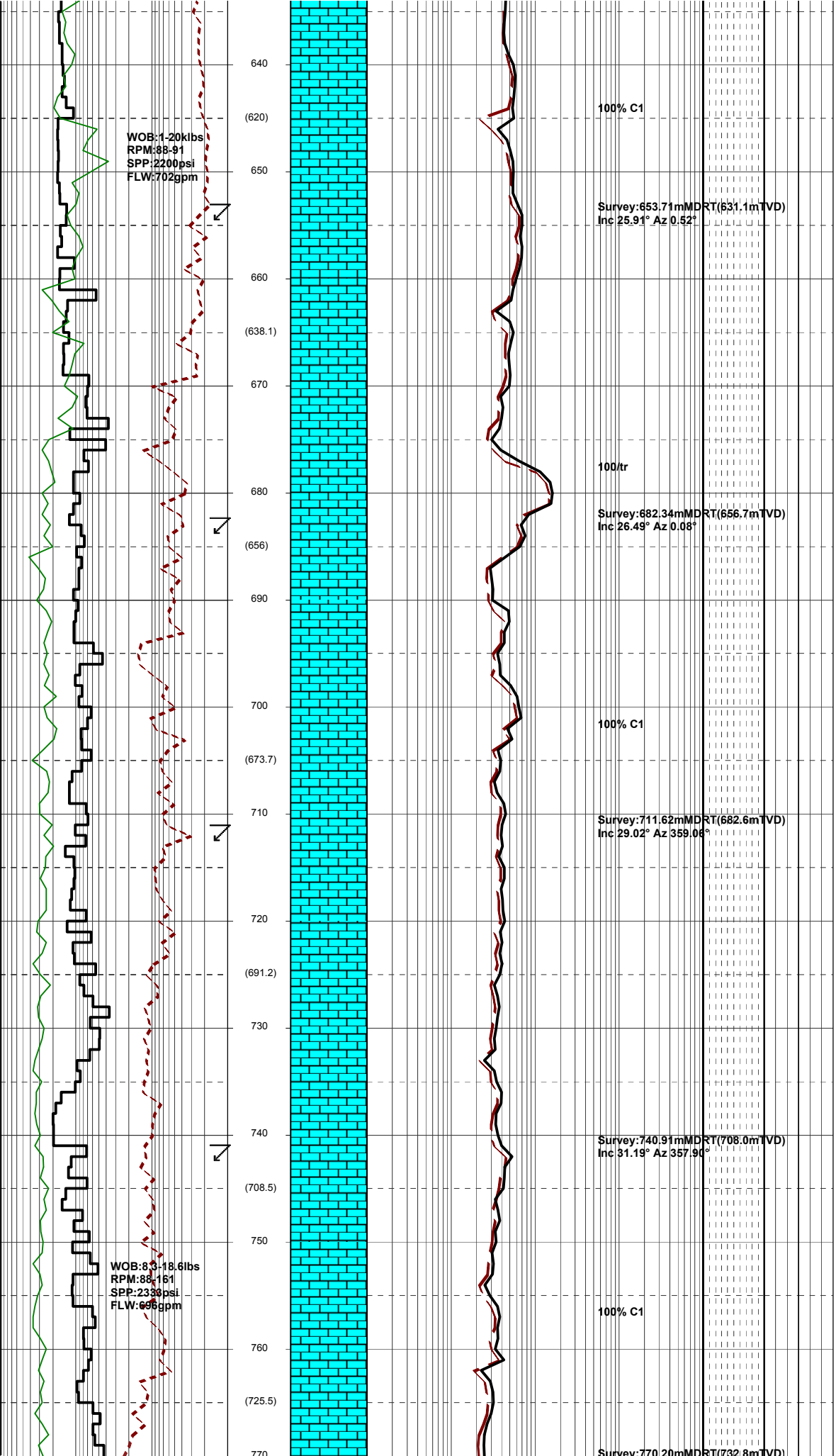
CALCARENITE:lt gy-med gy,f-med,mnr foss,tr liths,xln,lse,tr fri-mod hd aggs,mod hd-hd grs.

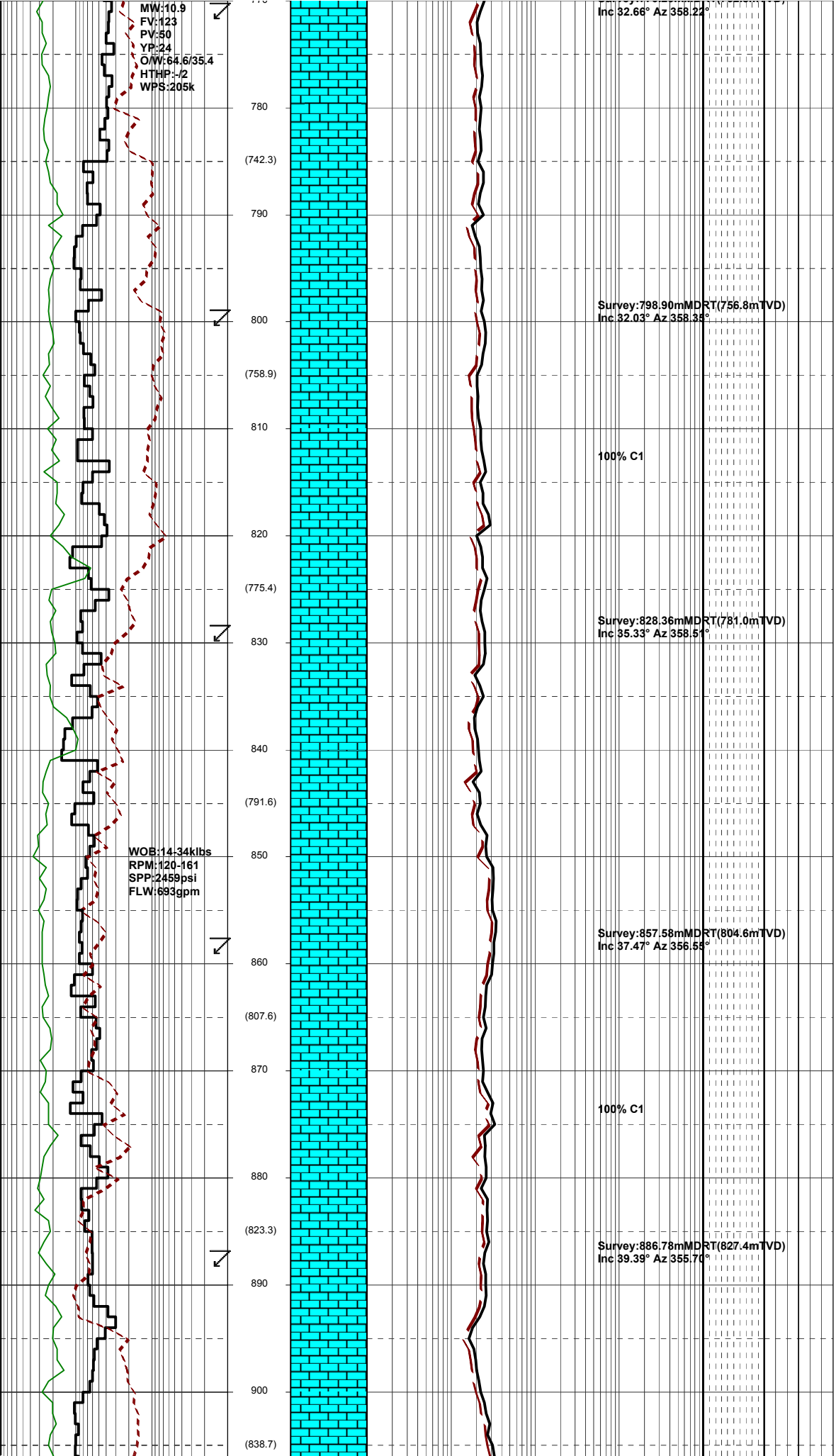
CALCARENITE:lt gy-med gy,f-med,mnr foss,tr liths,xln,lse,tr fri-mod hd aggs,mod hd-hd grs.

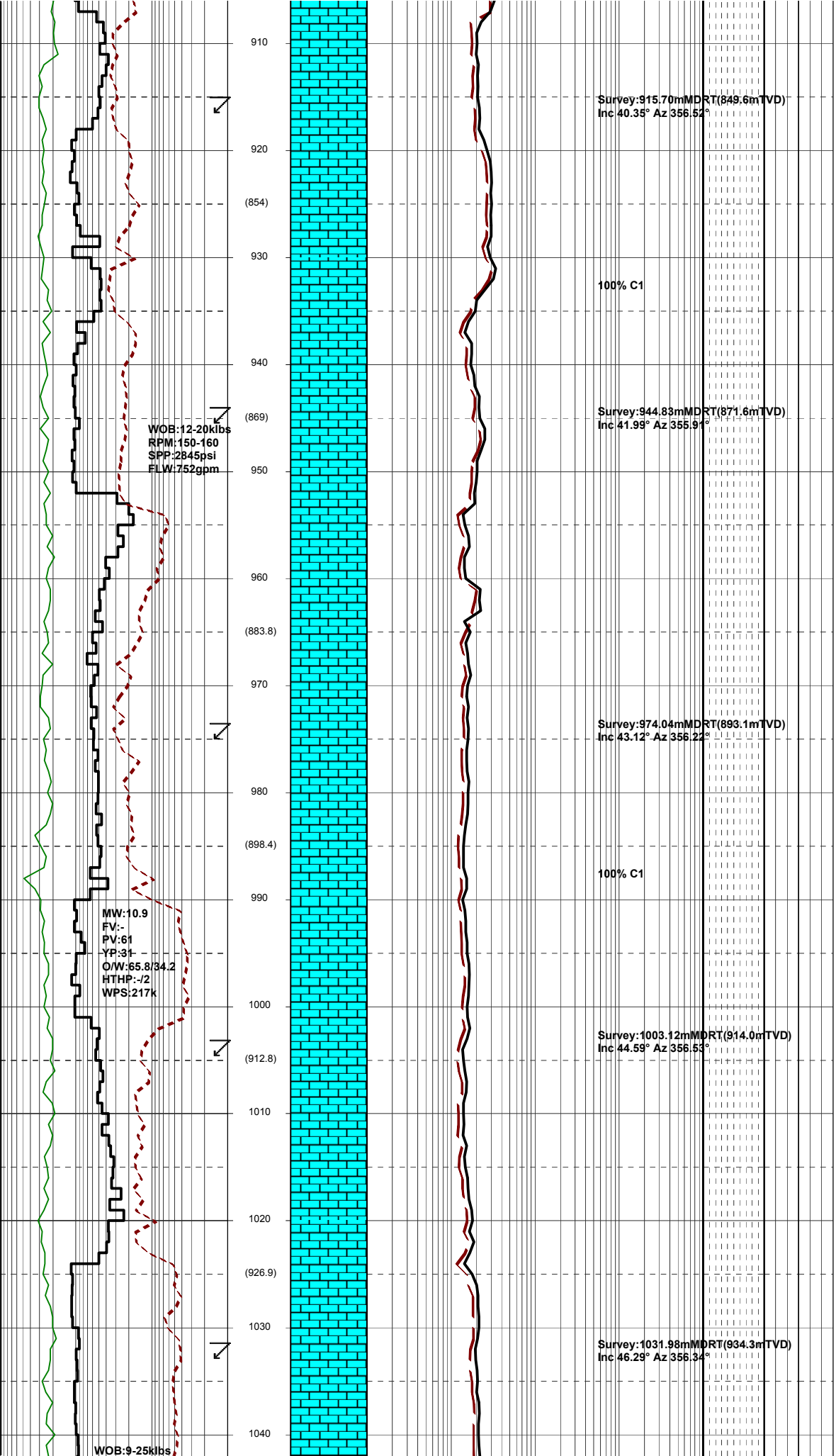
CALCARENITE:lt gy-med gy,f-med,mnr foss,tr

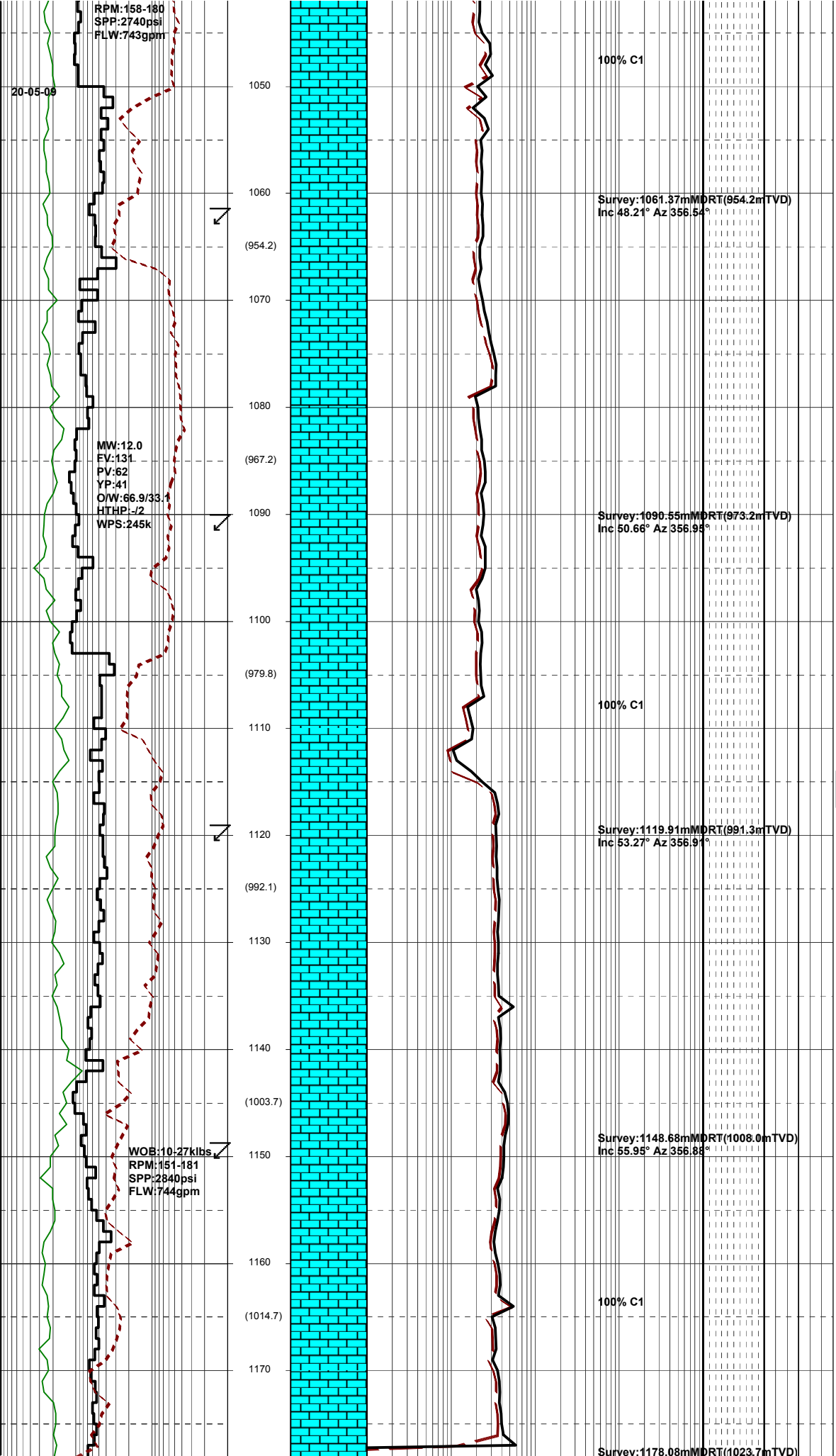

aggs,mod hd-hd grs.
Survey:365.87mMD (362.7mTVD)
17.08°inc 21.12°az
370
380
(378)
390
CALCARENITE:lt gy-med gy,f-med,mnr foss,tr liths,xln,lse,tr fri-mod hd aggs,mod hd-hd grs.
WOB:0-8klbs
RPM:260-351
SPP:1680psi
FLW:930gpm
Survey:395.70mMD (391.3mTVD)
16.48°inc 16.11°az
400
(397.1)
410
CALCARENITE:lt gy-med gy,f-med,rr foss frags, tr liths,xln,lse,tr fri aggs, mod hd-hd grs.
420
MW:9.50
FV:45
PV:8
YP:16
O/W:-
HTHP:-
WPS:-
Survey:425.01mMD (419.4mTVD)
16.42°inc 13.88°az
(416.3)
430
440
(435.5)
450
CALCARENITE:lt gy-med gy,f-med,rr foss frags, tr liths,xln,lse,tr fri aggs, mod hd-hd grs.
Survey:454.38mMD (447.6mTVD)
16.51°inc 9.24°az
460
(454.6)
100% C1
470
CALCARENITE:lt gy-med gy,f-med,rr foss frags, tr liths,xln,lse,rr-mnr fri aggs,mod hd-hd grs.
12-05-09
480
CALCARENITE:lt gy-med gy,tr pl yel-pl orng, f-med, rr foss frags,tr liths,xln, lse-fri aggs,mod hd-hd grs.
Survey:483.64mMD (475.5mTVD)
17.87°inc 6.17°az
(473.7)
490
WOB:0-11klbs

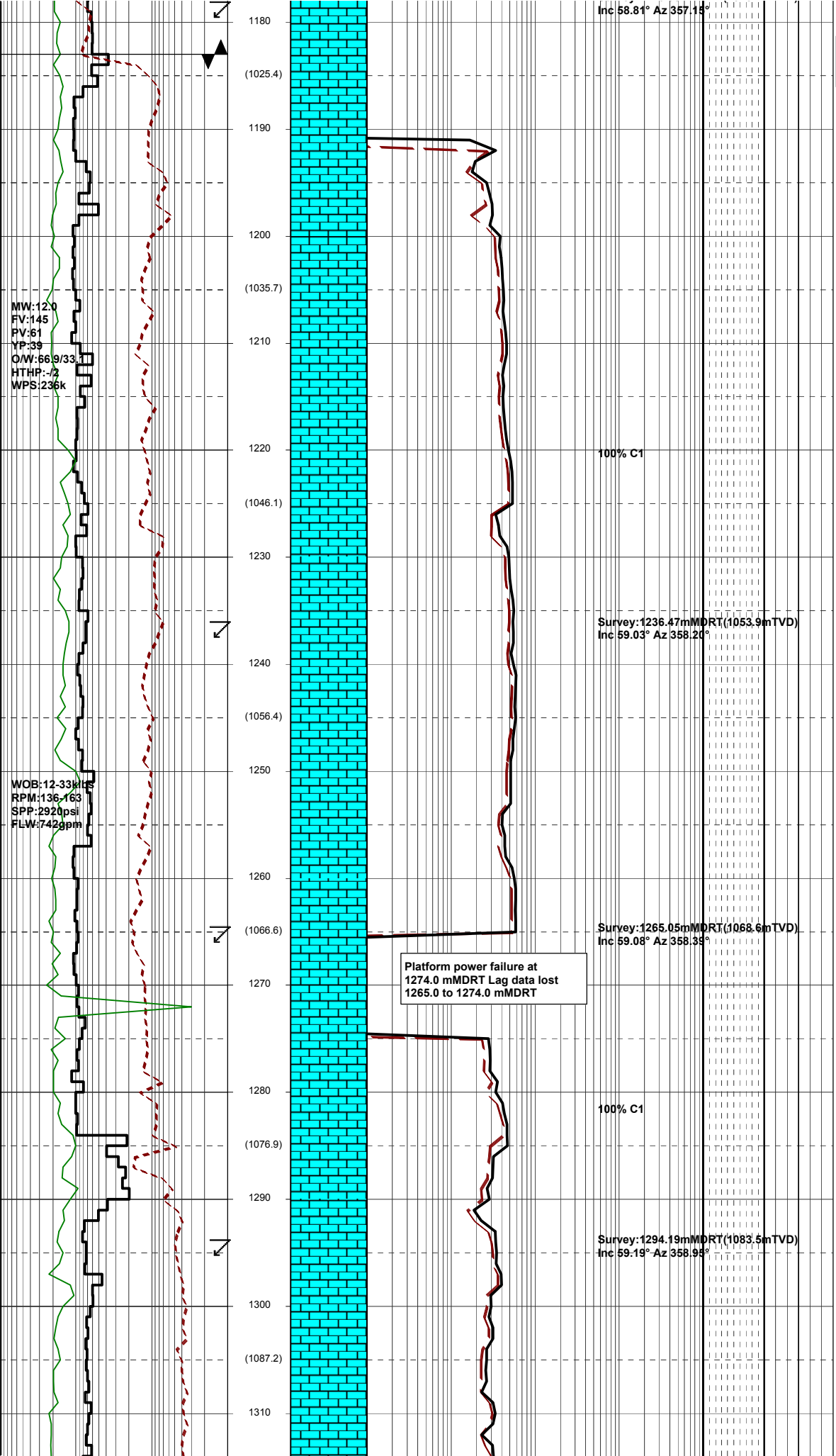

SPP:1680psi
FLW:909gpm
500
(492.4)
510
520
(510.9)
530
540
(529.1)
550
560
(547.3)
570
580
(565.5)
590
600
(583.7)
610
620
(601.9)
630
MW:9.00
FV:51
PV:4
YP:29
O/W:-
HTHP:-
WPS:-
WOB:4-18klbs
RPM:248-300
SPP:1739psi
FLW:913gpm
17-05-09
19-05-09
MW:10.6
FV:125
PV:41
YP:20
O/W:67.1/32.9
HTHP:-/2
WPS:231k
REPOSITION GZG PROBE
Survey:512.90mMD (502.8mTVD)
24.49°inc 4.38°az
100% C1
Survey:542.25mMD (529.5mTVD)
24.02°inc 355.96°az
100% C1
AUX GAS DATA USED DUE TO BLOCKAGE WITH GZG PROBE FROM 562.0 mMDRT to 599.0 mMDRT.
Survey:571.65mMD (556.4mTVD)
24.02°inc 350.09°az
8.5" hole opened up to 9.75" then 14.75" with hole opener.
100% C1
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: 3983.0 mMDRT
Run: 3380.0m
Hrs: 69.2
Cond:
Survey:624.38mMDRT(604.6mTVD)
Inc 24.40° Az 356.55°
CALCARENITE:lt gy-med gy,tr pl yel-pl orng, 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,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 at 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,slty,tr liths,tr glauc grs,sft-frm,amor-sbblky.

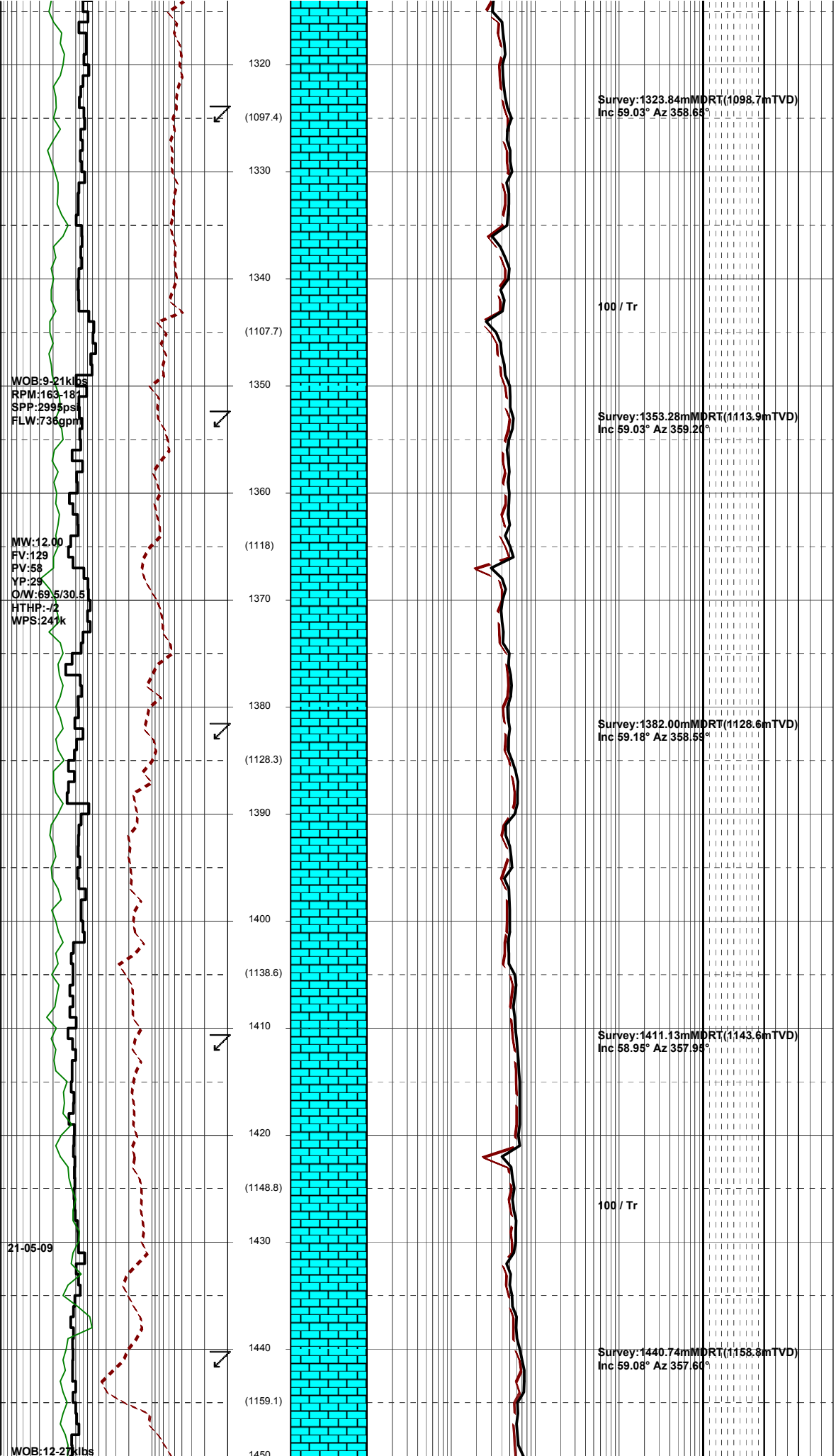

640
(620)
650
660
(638.1)
670
680
(656)
690
700
(673.7)
710
720
(691.2)
730
740
(708.5)
750
760
(725.5)
770
WOB:1-20klbs
RPM:88-91
SPP:2200psi
FLW:702gpm
WOB:8.3-18.6lbs
RPM:88-161
SPP:2338psi
FLW:696gpm
100% C1
Survey:653.71mMDRT(631.1mTVD)
Inc 25.91° Az 0.52°
100/tr
Survey:682.34mMDRT(656.7mTVD)
Inc 26.49° Az 0.08°
100% C1
Survey:711.62mMDRT(682.6mTVD)
Inc 29.02° Az 359.08°
Survey:740.91mMDRT(708.0mTVD)
Inc 31.19° Az 357.90°
100% C1
Survey:770.20mMDRT(732.8mTVD)
CALCILUTITE:lt olv gy-olv gy,tr slty,tr liths, tr vf glauc grs,com carb spks,tr shell frags,sft-frm, amor-sbblky.
CALCILUTITE:lt olv gy-gn gy,com vf aren,tr liths, tr vf glauc grs,tr carb spks,tr shell frags,sft-frm, amor-sbblky.
CALCILUTITE:lt olv gy-gn gy,tr vf aren,tr liths, tr vf glauc grs,tr carb spks,tr shell frags,sft-frm, amor-sbblky.
CALCILUTITE:lt olv gy-gn gy,tr vf aren,tr liths, tr vf glauc grs,tr carb spks,tr shell frags,sft-frm, amor-sbblky.
CALCILUTITE:lt olv gy-gn gy,tr vf aren,tr liths, tr vf glauc grs,tr carb spks,tr shell frags,sft-frm, amor-sbblky.

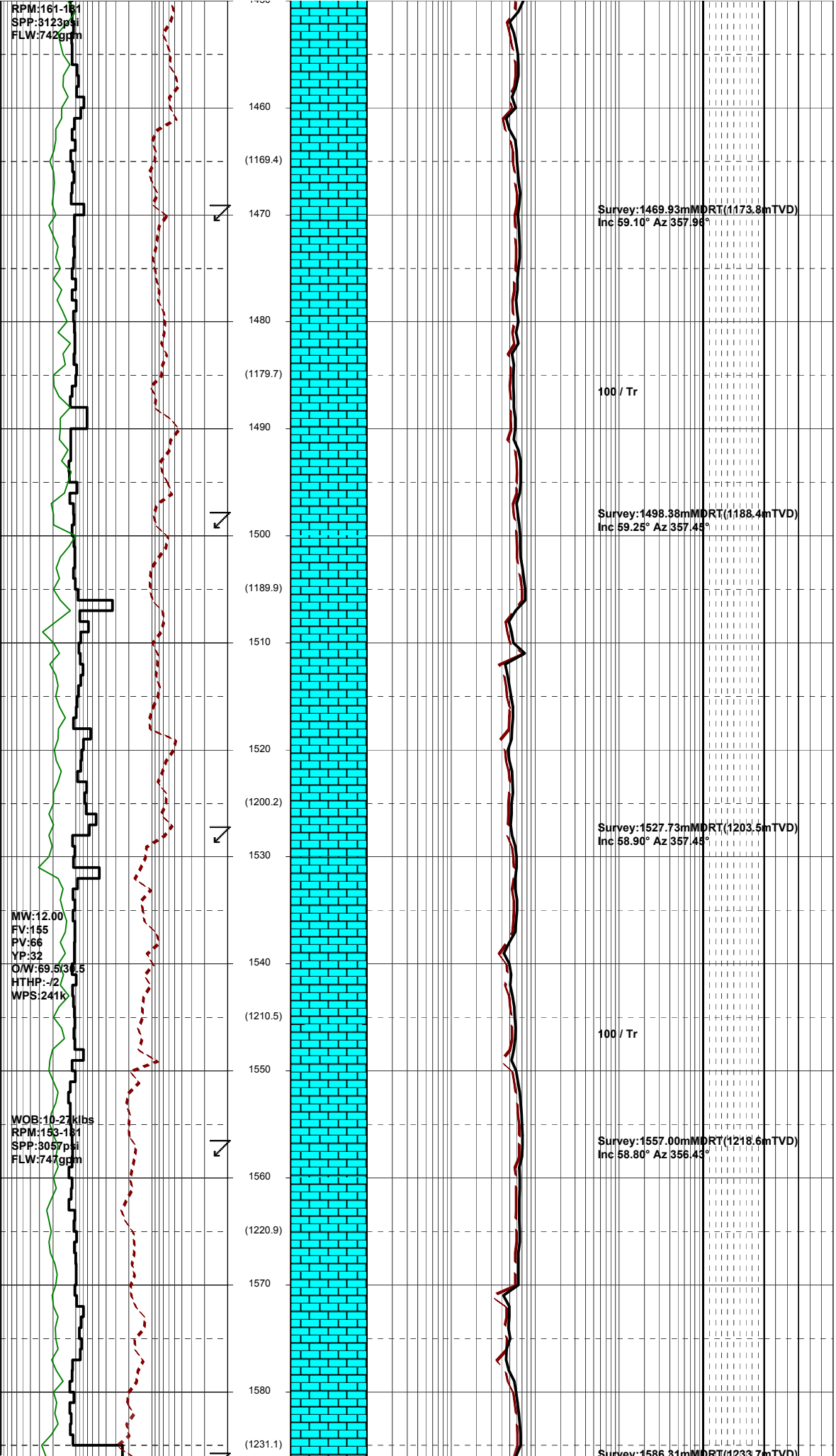

MW:10.9
FV:123
PV:50
YP:24
O/W:64.6/35.4
HTHP:-/2
WPS:205k
780
(742.3)
790
800
(758.9)
810
820
(775.4)
830
840
(791.6)
WOB:14-34klbs
RPM:120-161
SPP:2459psi
FLW:693gpm
850
860
(807.6)
870
880
(823.3)
890
900
(838.7)
Inc 32.66° Az 358.22°
Survey:798.90mMDRT(756.8mTVD)
Inc 32.03° Az 358.35°
100% C1
Survey:828.36mMDRT(781.0mTVD)
Inc 35.33° Az 358.51°
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:lt olv gy-olv gy,slty,rr vf aren, tr liths,tr carb spks, sft-frm,amor-sbblky.
CALCILUTITE:lt olv gy-olv gy,slty,occ vf aren, tr liths,tr carb spks, sft-frm,rr mod hd,sbblky, rr blky.
CALCILUTITE:lt olv gy-olv gy,tr vf aren,tr vf qtz grs,tr liths,tr carb spks,sft-frm,rr mod hd, sbblky,rr blky.
CALCILUTITE:lt olv gy-olv gy,tr vf aren,tr vf qtz grs,tr liths,tr carb spks,sft-frm,rr mod hd, sbblky,rr blky.
CALCILUTITE:med gy-olv gy, slty,tr vf aren,tr vf qtz grs,tr liths,tr carb spks,sft-frm, sbblky-blky.

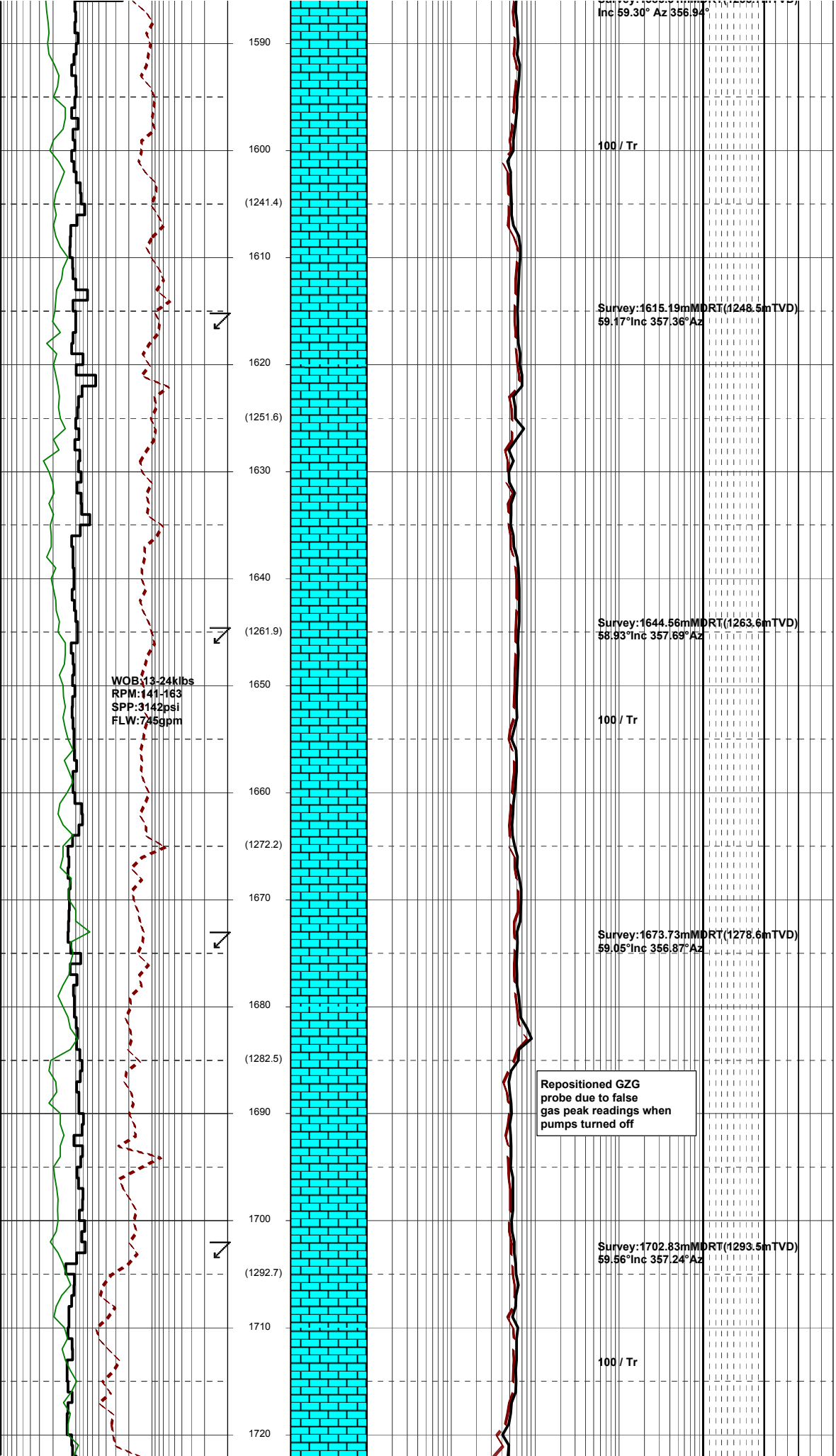

910
920
(854)
930
940
(869)
950
960
(883.8)
970
980
(898.4)
990
1000
(912.8)
1010
1020
(926.9)
1030
1040
Survey:915.70mMDRT(849.6mTVD)
Inc 40.35° Az 356.52°
100% C1
Survey:944.83mMDRT(871.6mTVD)
Inc 41.99° Az 355.91°
WOB:12-20klbs
RPM:150-160
SPP:2845psi
FLW:752gpm
Survey:974.04mMDRT(893.1mTVD)
Inc 43.12° Az 356.22°
100% C1
MW:10.9
FV:-
PV:61
YP:31
O/W:65.8/34.2
HTHP:-/2
WPS:217k
Survey:1003.12mMDRT(914.0mTVD)
Inc 44.59° Az 356.53°
Survey:1031.98mMDRT(934.3mTVD)
Inc 46.29° Az 356.34°
WOB:9-25klbs
CALCILUTITE:med gy-olv gy,slty,aren i/p,tr liths, tr carb spks,sft-frm, sbblky-blky.
CALCILUTITE:med gy-olv gy,dk gn gy,slty,tr liths, tr carb spks,tr qtz grs,sft-frm,sbblky.
CALCILUTITE:med gy-olv gy,dk gn gy,slty,tr liths, tr carb spks,tr qtz grs,sft-frm,tr v hd,sbblky.
CALCILUTITE:med gy-olv gy,slty,aren i/p,tr liths, sft-frm,sbblky-blky.

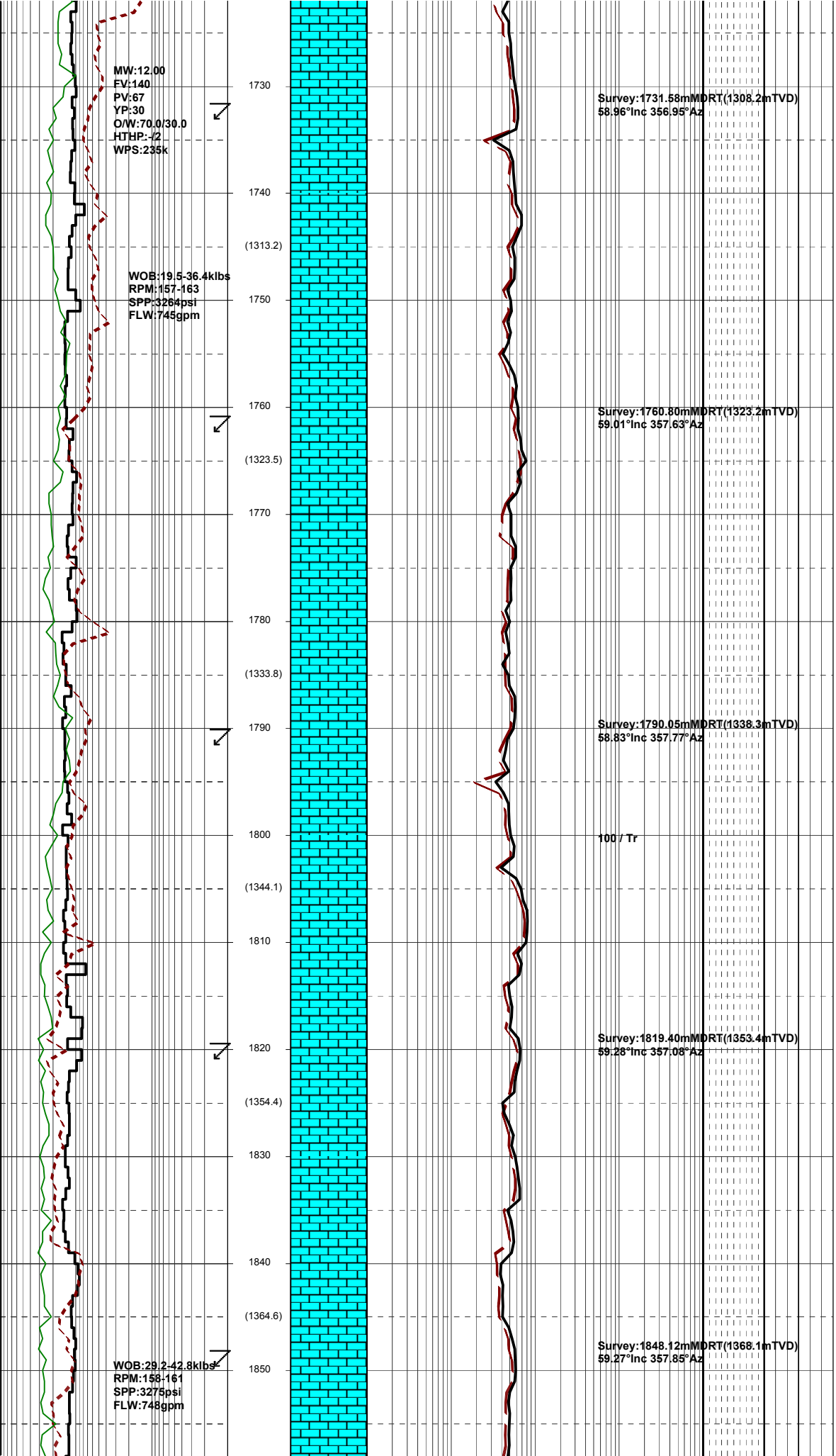

RPM:158-180
SPP:2740psi
FLW:743gpm
20-05-09
1050
1060
(954.2)
1070
1080
MW:12.0
EV:131
PV:62
YP:41
O/W:66.9/33.1
HTHP:-/2
WPS:245k
(967.2)
1090
1100
(979.8)
1110
1120
(992.1)
1130
1140
(1003.7)
WOB:10-27klbs
RPM:151-181
SPP:2840psi
FLW:744gpm
1150
1160
(1014.7)
1170
100% C1
Survey:1061.37mMDRT(954.2mTVD)
Inc 48.21° Az 356.54°
Survey:1090.55mMDRT(973.2mTVD)
Inc 50.66° Az 356.95°
100% C1
Survey:1119.91mMDRT(991.3mTVD)
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,slty,aren i/p,tr liths, tr carb spks,sft-frm, tr mod hd,sbblky-blky.
CALCILUTITE:med dk gy-olv gy,slty,tr liths,tr qtz grs, sft-frm,sbblky-blky.
CALCILUTITE:dk gy-olv gy, slty,tr liths,tr qtz grs,sft-frm, sbblky-blky.
Reposition GZG probe at 1112.0m MDRT Lag Depth
CALCILUTITE:dk gy-olv gy, slty,tr liths,sft-frm,sbblky-blky.
CALCILUTITE:dk gy-olv gy, slty,tr liths,sft-frm,sbblky-blky.

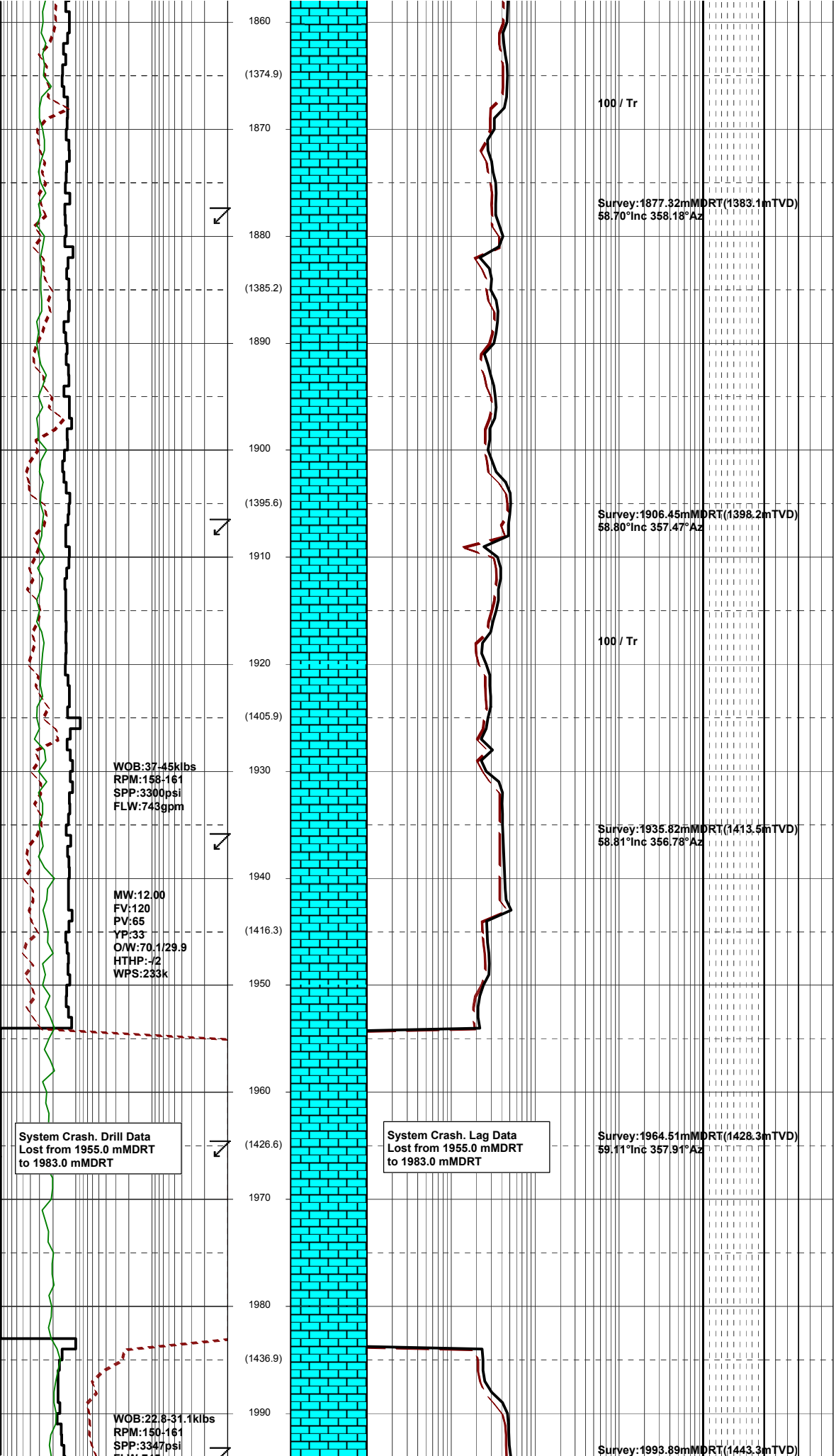

Inc 58.81° Az 357.13°
Pull back to 840.0 mMDRT
to fix blown wash pipe
Stuck pipe at 873.0 mMDRT
1180
(1025.4)
1190
1200
(1035.7)
CALCILUTITE:dk gy-olv gy,
slty g/t CLSLT,tr liths,
tr vf qtz grs,frm-mod hd,
tr sft,sbblky-blky,tr amor.
MW:12.0
FV:145
PV:61
YP:39
O/W:66.9/33.1
HTHP:-/2
WPS:236k
1210
1220
100% C1
(1046.1)
1230
CALCILUTITE:med dk gy-
olv gy,dk gy,slty g/t CLSLT,
tr liths,tr shell frags,
sft-frm,amor-sbblky.
Survey:1236.47mMDRT(1053.9mTVD)
Inc 59.03° Az 358.20°
1240
(1056.4)
1250
WOB:12-33klbs
RPM:136-163
SPP:2920psi
FLW:742gpm
1260
(1066.6)
Survey:1265.05mMDRT(1068.6mTVD)
Inc 59.08° Az 358.33°
Platform power failure at
1274.0 mMDRT Lag data lost
1265.0 to 1274.0 mMDRT
1270
1280
100% C1
(1076.9)
1290
CALCILUTITE:dk gy-
olv gy,slty,tr liths,
sft-frm,rr mod hd,
sbblky-blky.
Survey:1294.19mMDRT(1083.5mTVD)
Inc 59.19° Az 358.99°
1300
(1087.2)
1310

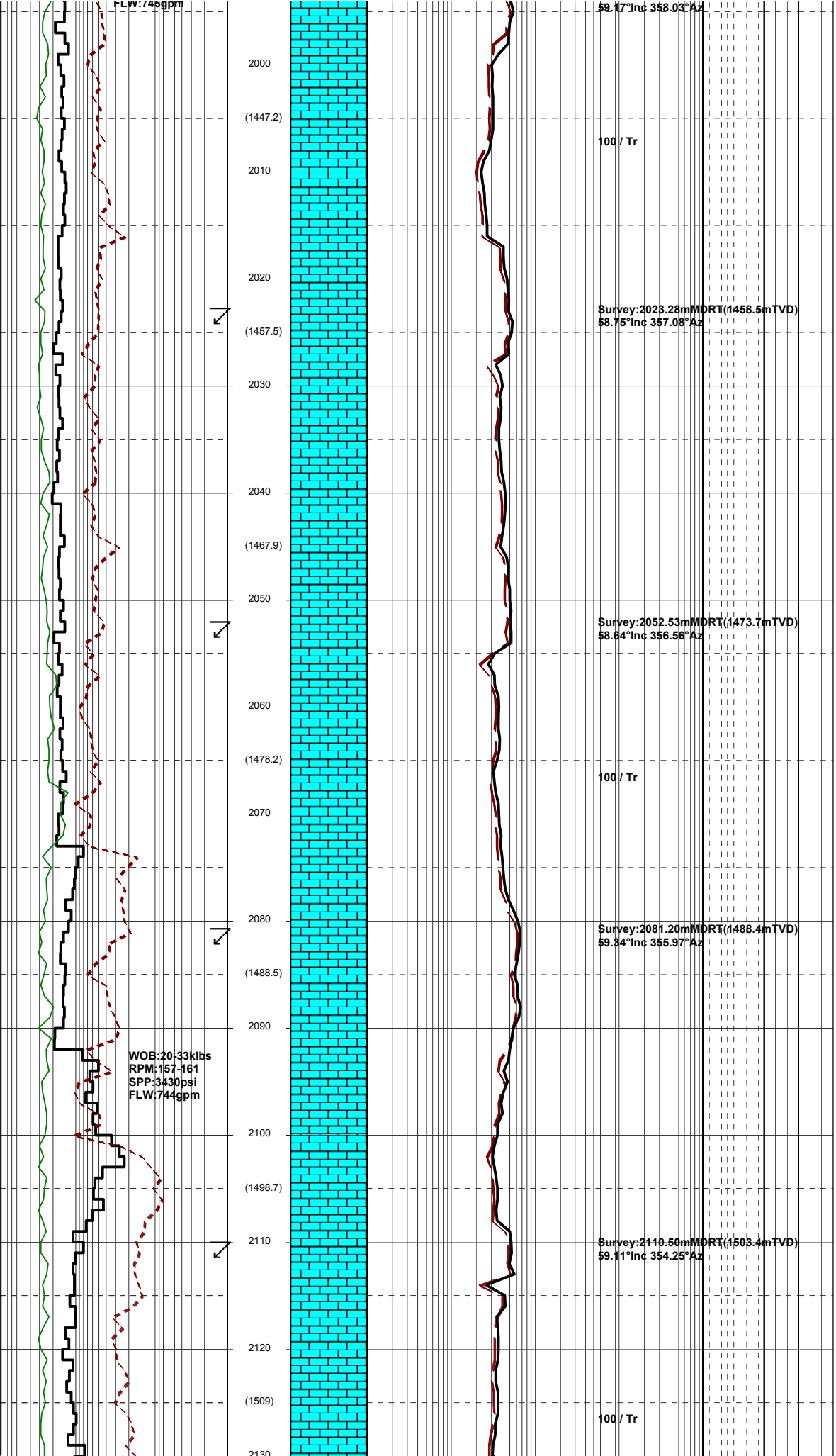

1320
(1097.4)
1330
1340
(1107.7)
1350
1360
(1118)
1370
1380
(1128.3)
1390
1400
(1138.6)
1410
1420
(1148.8)
1430
1440
(1159.1)
1450
WOB:9-21klbs
RPM:163-181
SPP:2995psi
FLW:736gpm
MW:12.00
FV:129
PV:58
YP:29
O/W:69.5/30.5
HTHP:-/2
WPS:241k
21-05-09
WOB:12-27klbs
Survey:1323.84mMDRT(1098.7mTVD)
Inc 59.03° Az 358.65°
100 / Tr
Survey:1353.28mMDRT(1113.9mTVD)
Inc 59.03° Az 359.20°
Survey:1382.00mMDRT(1128.6mTVD)
Inc 59.18° Az 358.59°
Survey:1411.13mMDRT(1143.6mTVD)
Inc 58.95° Az 357.93°
100 / Tr
Survey:1440.74mMDRT(1158.8mTVD)
Inc 59.08° Az 357.60°
CALCILUTITE:dk gy-olv gy,
slty g/t CLSLT,tr liths,
frm-mod hd,sbblky-blky.
CALCILUTITE:dk gy-olv gy,
slty g/t CLSLT,tr liths,
frm-mod hd,sbblky-blky.
CALCILUTITE:dk gy-olv gy,
slty g/t CLSLT,tr liths,
frm-mod hd,sbblky-blky.
CALCILUTITE:dk gy-olv blk,
slty g/t CLSLT,tr liths,
tr vf qtz grs,frm-mod hd,
sbblky,tr amor.
CALCILUTITE:dk gy-olv blk,
slty g/t CLSLT,tr liths,
tr vf qtz grs,tr carb spks,
mod hd-hd,sbblky,tr amor.

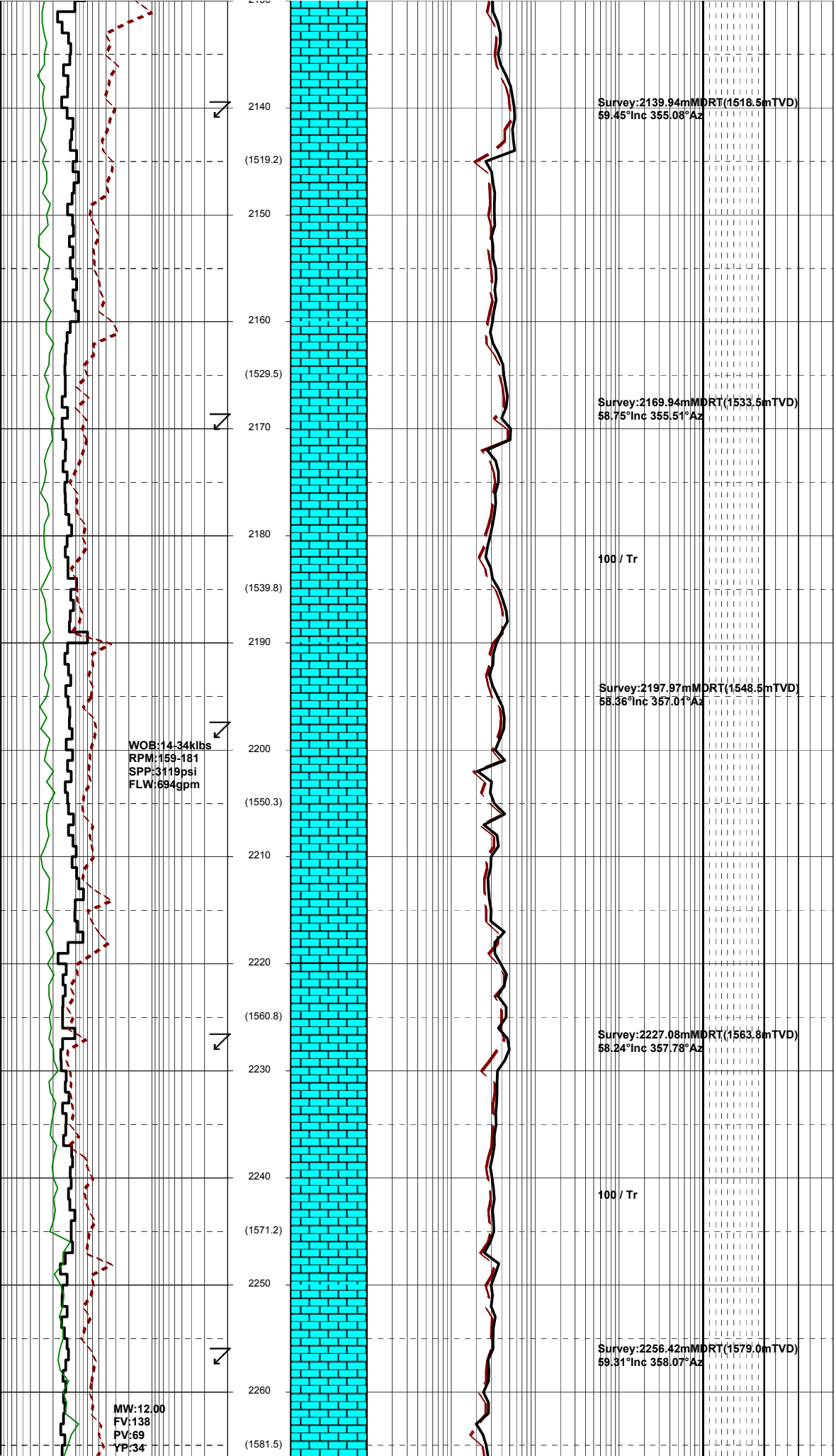

RPM:161-161
SPP:3123psi
FLW:742gpm
1460
(1169.4)
1470
1480
(1179.7)
1490
1500
(1189.9)
1510
1520
(1200.2)
1530
MW:12.00
FV:155
PV:66
YP:32
O/W:69.5/30.5
HTHP:-/2
WPS:241k
1540
(1210.5)
1550
WOB:10-22klbs
RPM:153-161
SPP:3057psi
FLW:747gpm
1560
(1220.9)
1570
1580
(1231.1)
Survey:1469.93mMDRT(1173.8mTVD)
Inc 59.10° Az 357.96°
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°
CALCILUTITE:dk gy-olv blk,
slty,tr liths,tr vf qtz grs,
tr carb spks,mod hd-hd,
sbblky,tr amor.
CALCILUTITE:dk gy-olv gy,
slty g/t CLSLT,tr liths,
tr vf qtz grs,tr carb spks,
frm-mod hd,sbblky-blky.
CALCILUTITE:dk gy-olv gy,
slty g/t CLSLT,tr liths,
tr vf qtz grs,tr carb spks,
sft-frm,sbblky-blky.
CALCILUTITE:dk gy-olv gy,
slty g/t CLSLT,tr liths,
tr vf qtz grs,tr carb spks,
sft-frm,sbblky-blky.

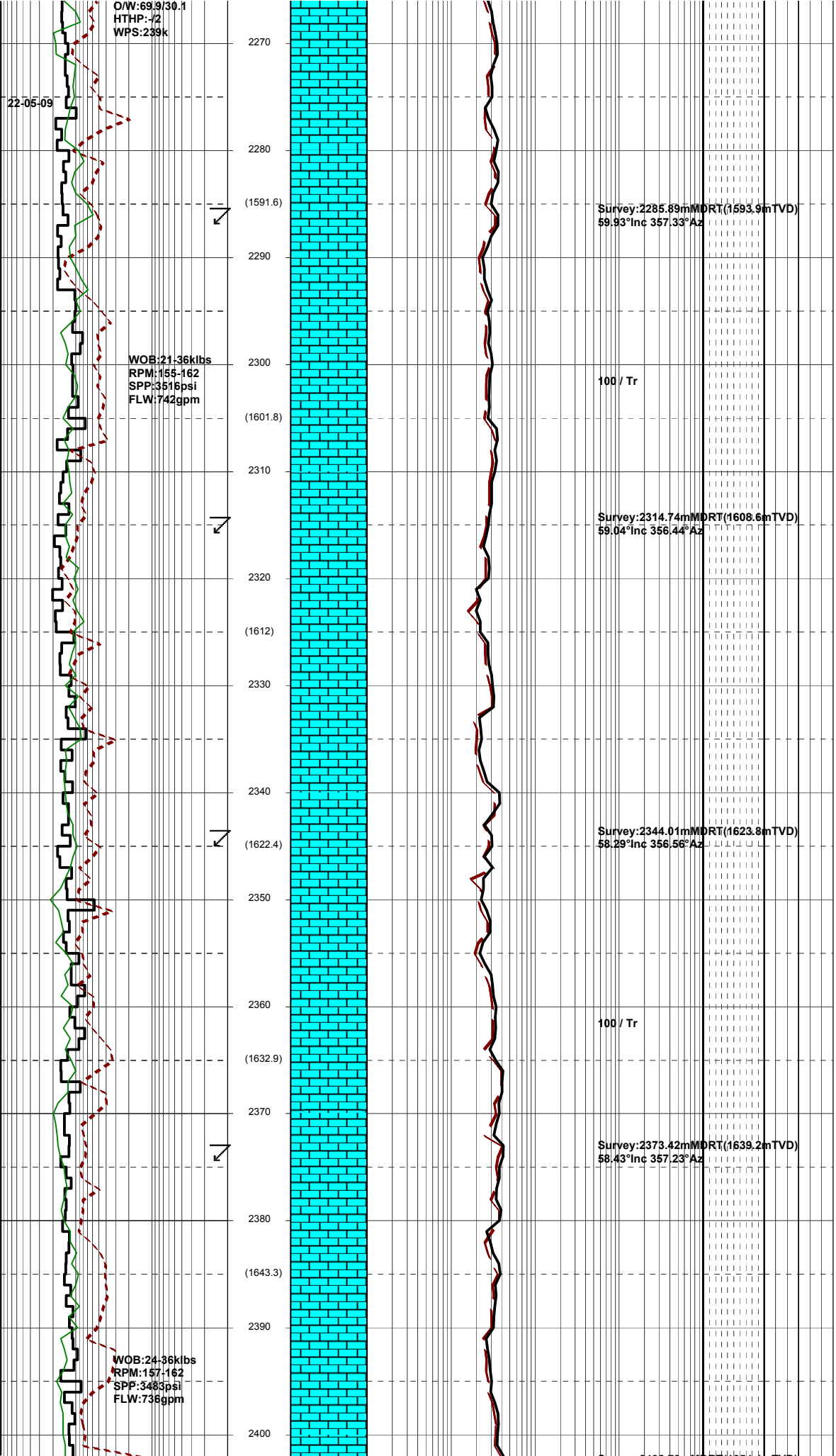

Inc 59.30° Az 356.94°
1590
1600
100 / Tr
(1241.4)
1610
Survey:1615.19mMDRT(1248.5mTVD)
59.17°Inc 357.36°Az
1620
(1251.6)
1630
1640
Survey:1644.56mMDRT(1263.6mTVD)
58.93°Inc 357.69°Az
(1261.9)
WOB:13-24klbs
RPM:141-163
SPP:3142psi
FLW:745gpm
1650
100 / Tr
1660
(1272.2)
1670
Survey:1673.73mMDRT(1278.6mTVD)
59.05°Inc 356.87°Az
1680
(1282.5)
Repositioned GZG
probe due to false
gas peak readings when
pumps turned off
1690
1700
Survey:1702.83mMDRT(1293.5mTVD)
59.56°Inc 357.24°Az
(1292.7)
1710
100 / Tr
1720
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.

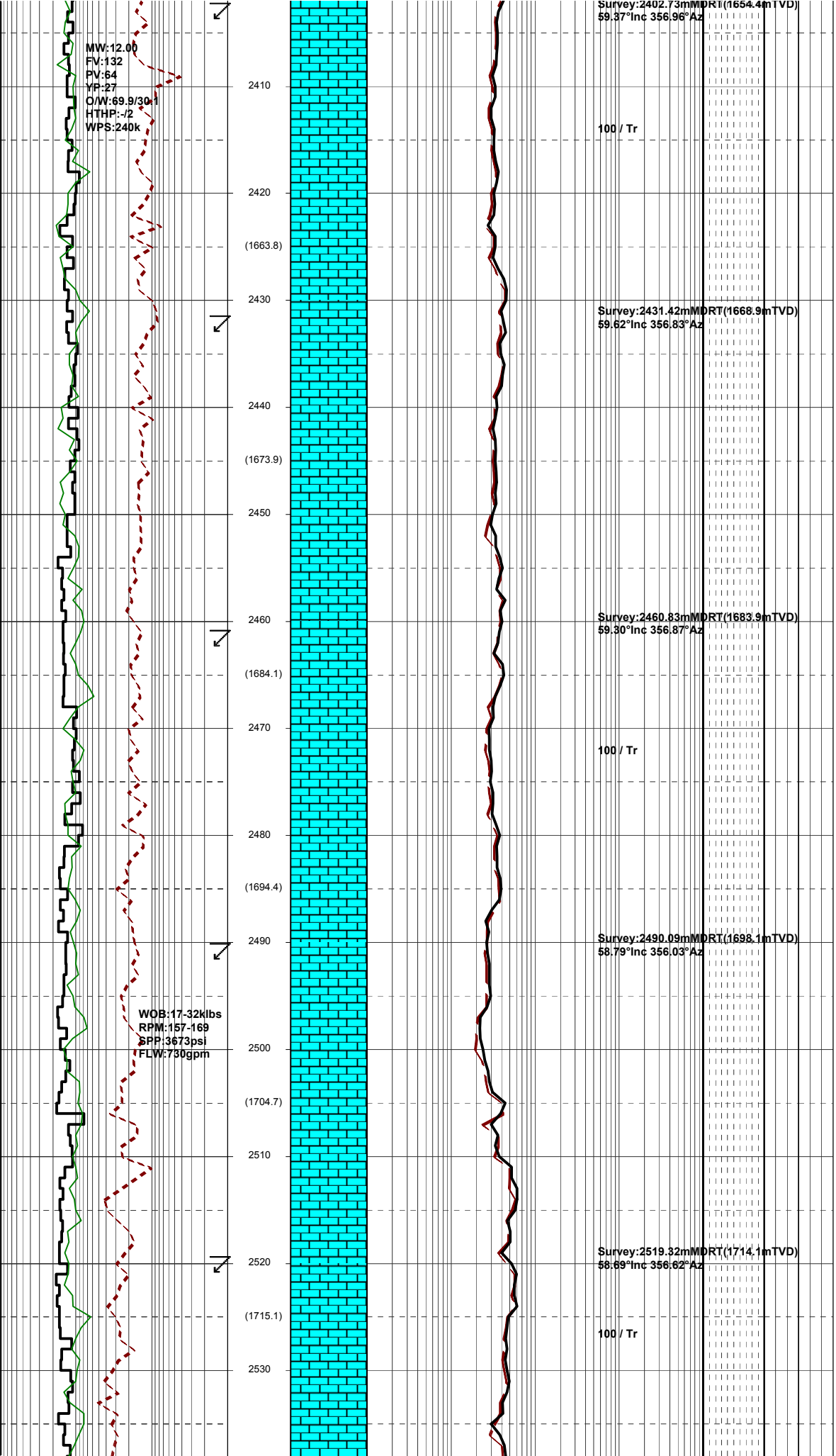

MW:12.00
FV:140
PV:67
YP:30
O/W:70.0/30.0
HTHP: -/2
WPS:235k
1730
Survey:1731.58mMDRT(1308.2mTVD)
58.96°Inc 356.95°Az
1740
CALCILUTITE:med gy-olv gy,
slty g/t CLSLT,tr liths,
tr f qtz grs,rr f calc grs,
sft-frm,amor-sbblky,rr blky.
(1313.2)
WOB:19.5-36.4klbs
RPM:157-163
SPP:3264psi
FLW:745gpm
1750
1760
Survey:1760.80mMDRT(1323.2mTVD)
59.01°Inc 357.63°Az
(1323.5)
1770
CALCILUTITE:med gy-olv gy,
slty g/t CLSLT,tr liths,
tr vf qtz grs,tr vf calc grs,
sft-frm,amor-sbblky,rr blky.
1780
(1333.8)
1790
Survey:1790.05mMDRT(1338.3mTVD)
58.83°Inc 357.77°Az
1800
100 / Tr
CALCILUTITE:med gy-olv gy,
slty g/t CLSLT,tr liths,
tr vf qtz grs,tr vf calc grs,
sft-frm,amor-sbblky,rr blky.
(1344.1)
1810
1820
Survey:1819.40mMDRT(1353.4mTVD)
59.28°Inc 357.08°Az
(1354.4)
1830
CALCILUTITE:med gy-olv gy,
slty g/t CLSLT,tr liths,
tr vf calc grs,frm-mod hd,
rr hd,sbblky-blky.
1840
(1364.6)
WOB:29.2-42.8klbs
RPM:158-161
SPP:3275psi
FLW:748gpm
1850
Survey:1848.12mMDRT(1368.1mTVD)
59.27°Inc 357.85°Az

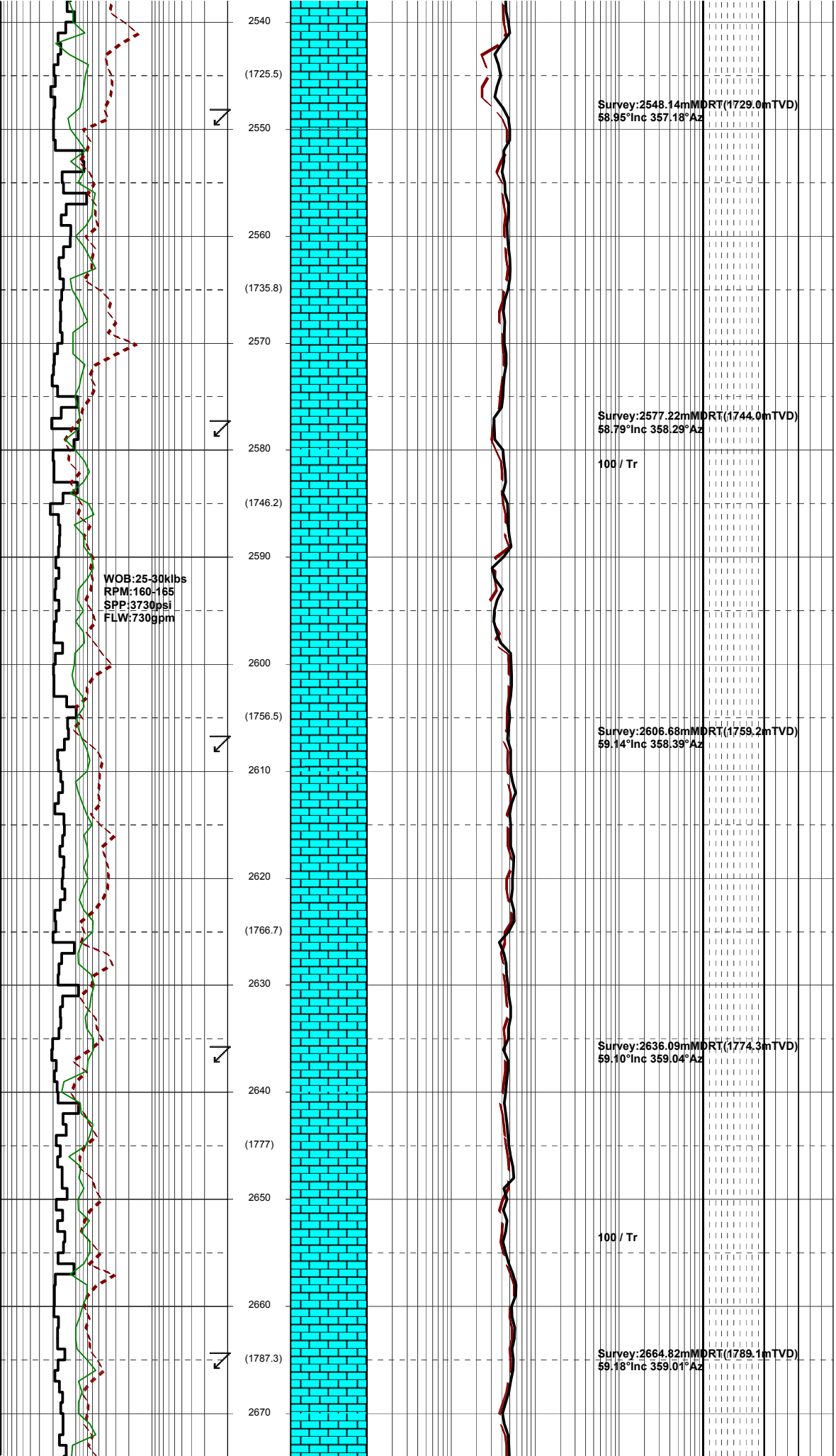

1860
(1374.9)
1870
1880
(1385.2)
1890
1900
(1395.6)
1910
1920
(1405.9)
1930
1940
(1416.3)
1950
1960
(1426.6)
1970
1980
(1436.9)
1990
100 / Tr
Survey:1877.32mMDRT(1383.1mTVD)
58.70°Inc 358.18°Az
Survey:1906.45mMDRT(1398.2mTVD)
58.80°Inc 357.47°Az
100 / Tr
Survey:1935.82mMDRT(1413.5mTVD)
58.81°Inc 356.78°Az
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:-/2
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,
slty g/t CLSLT,tr liths,
tr vf calc grs,frm-mod hd,
rr hd,sbblky-blky.
CALCILUTITE:pred med gy,
tr-rr olv gy,slty g/t CLSLT,
tr liths,tr vf calc grs,frm-
mod hd,rr hd,sbblky-blky.
CALCILUTITE:med dk gy-
olv gy,slty g/t CLSLT,tr liths,
rr vf qtz grs,tr vf calc grs,
frm-mod hd,sbblky-blky.
CALCILUTITE:med dk gy-
olv gy,slty g/t CLSLT,
tr liths,rr vf qtz grs,
frm-mod hd,sbblky-blky.

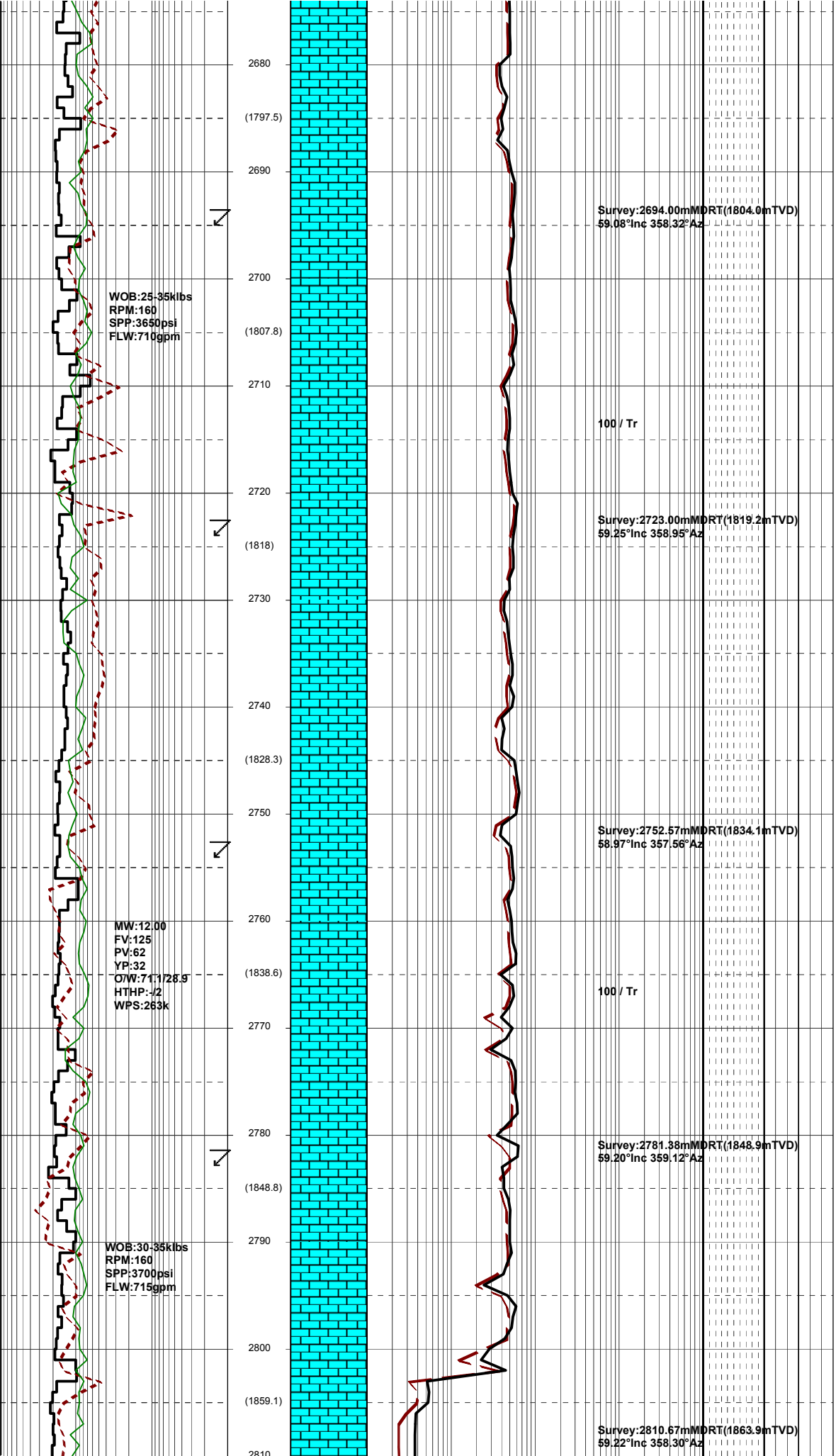

FLW:745gpm
2000
(1447.2)
2010
2020
(1457.5)
2030
2040
(1467.9)
2050
2060
(1478.2)
2070
2080
(1488.5)
2090
WOB:20-33klbs
RPM:157-161
SPP:3430psi
FLW:744gpm
2100
(1498.7)
2110
2120
(1509)
2130
59.17°Inc 358.03°Az
100 / Tr
Survey:2023.28mMDRT(1458.5mTVD)
58.75°Inc 357.08°Az
Survey:2052.53mMDRT(1473.7mTVD)
58.64°Inc 356.56°Az
100 / Tr
Survey:2081.20mMDRT(1488.4mTVD)
59.34°Inc 355.97°Az
Survey:2110.50mMDRT(1503.4mTVD)
59.11°Inc 354.25°Az
100 / Tr
CALCILUTITE:med dk gy-olv gy,slty g/t CLSLT, tr liths,tr vf glauc grs, rr vf qtz grs,frm-mod hd, sbblky-blky.
CALCILUTITE:med dk gy-dk gy,slty g/t CLSLT,tr liths, tr vf qtz grs,tr vf glauc grs, frm-mod hd,sbblky-blky.
CALCILUTITE:med dk gy-dk gy,slty g/t CLSLT, tr liths,tr vf glauc grs, frm-mod hd,sbblky-blky.
CALCILUTITE:med dk gy-olv gy,slty g/t CLSLT,

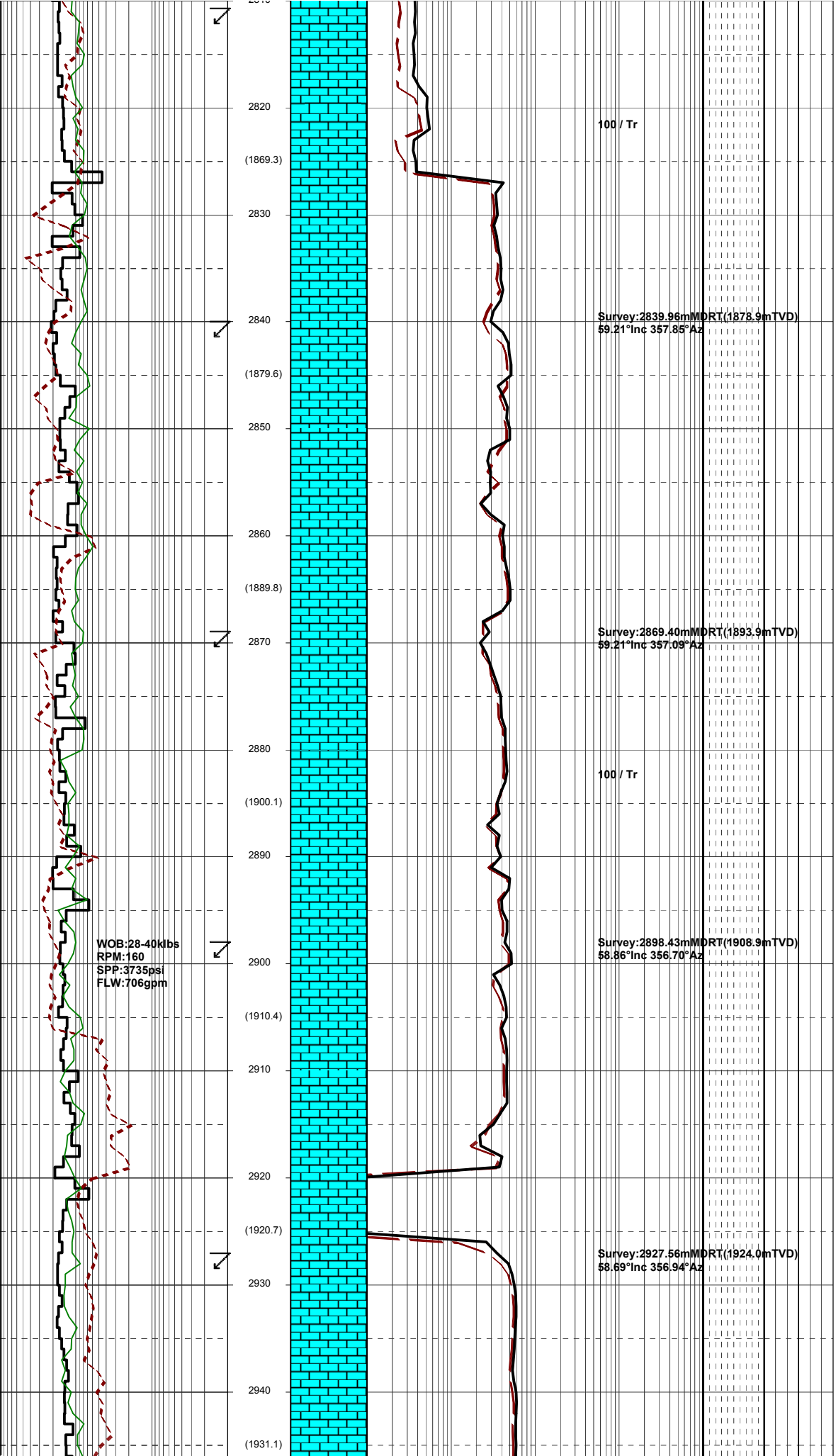

tr liths,tr carb spks,
tr vf qtz grs,frm-mod hd,
sbblky-blky.
2140
(1519.2)
2150
Survey:2139.94mMDRT(1518.5mTVD)
59.45°Inc 355.08°Az
2160
(1529.5)
CALCILUTITE:med dk gy-
olv gy,slty g/t CLSLT,
tr liths,frm-mod hd,sbblky-
blky.
Survey:2169.94mMDRT(1533.5mTVD)
58.75°Inc 355.51°Az
2170
2180
100 / Tr
(1539.8)
2190
CALCILUTITE:med dk gy-
olv gy,slty g/t CLSLT,
tr liths,frm-mod hd,sbblky-
blky.
Survey:2197.97mMDRT(1548.5mTVD)
58.36°Inc 357.01°Az
WOB:14-34klbs
RPM:159-181
SPP:3119psi
FLW:694gpm
2200
(1550.3)
2210
2220
CALCILUTITE:med dk gy-
olv gy,slty g/t CLSLT,
tr liths,frm-mod hd,sbblky-
blky.
(1560.8)
Survey:2227.08mMDRT(1563.8mTVD)
58.24°Inc 357.78°Az
2230
2240
100 / Tr
(1571.2)
2250
CALCILUTITE:med dk gy-
olv gy,slty g/t CLSLT,
tr liths,tr vf glauc grs,
frm-mod hd,sbblky-blky.
Survey:2256.42mMDRT(1579.0mTVD)
59.31°Inc 358.07°Az
2260
MW:12.00
FV:138
PV:69
YP:34
(1581.5)

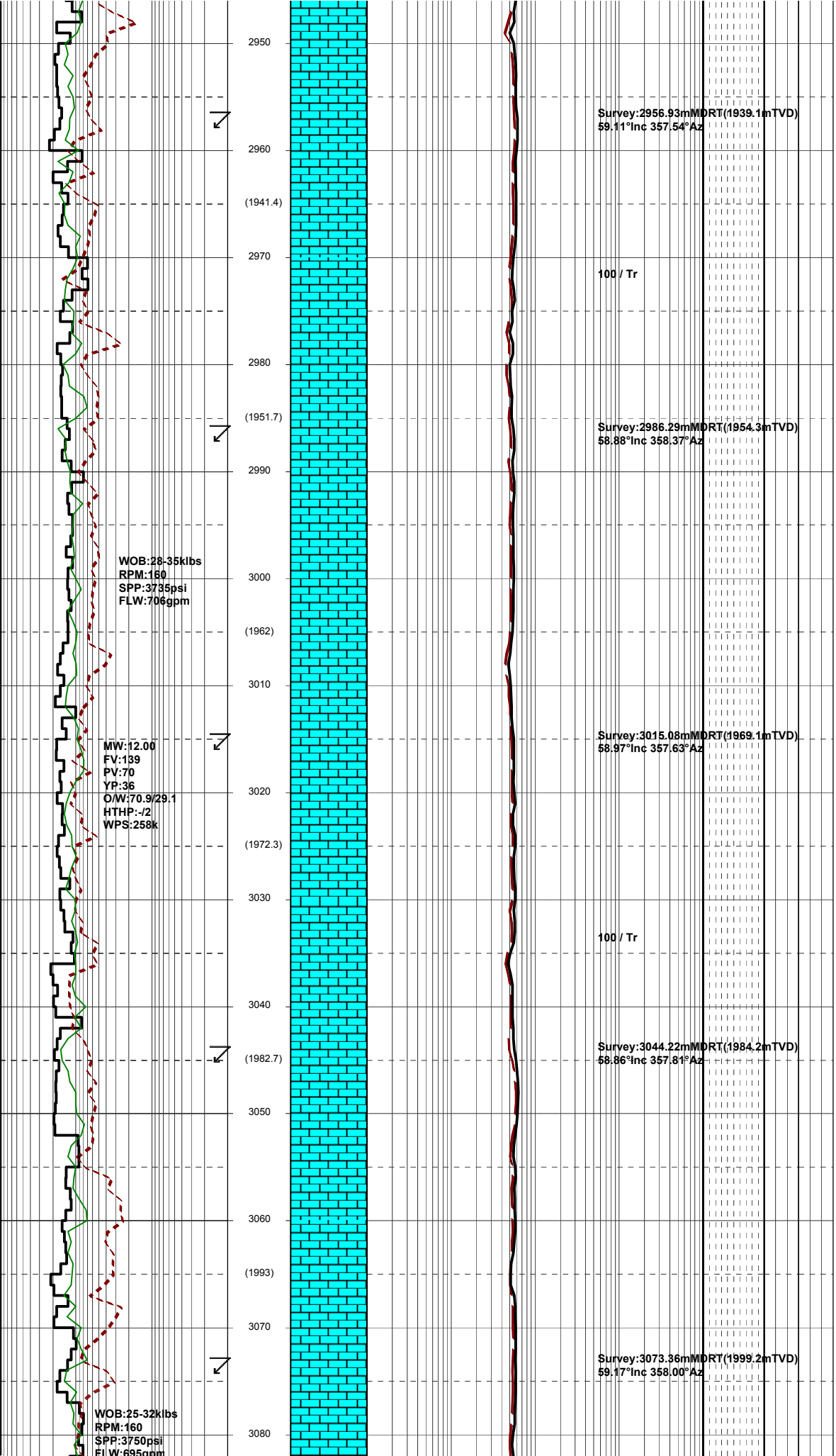

O/W:69.9/30.1
HTHP:-/2
WPS:239k
22-05-09
2270
2280
(1591.6)
2290
WOB:21-36klbs
RPM:155-162
SPP:3516psi
FLW:742gpm
2300
(1601.8)
2310
2320
(1612)
2330
2340
(1622.4)
2350
2360
(1632.9)
2370
2380
(1643.3)
2390
WOB:24-36klbs
RPM:157-162
SPP:3483psi
FLW:736gpm
2400
Survey:2285.89mMDRT(1593.9mTVD)
59.93°Inc 357.33°Az
100 / Tr
Survey:2314.74mMDRT(1608.6mTVD)
59.04°Inc 356.44°Az
Survey:2344.01mMDRT(1623.8mTVD)
58.29°Inc 356.56°Az
100 / Tr
Survey:2373.42mMDRT(1639.2mTVD)
58.43°Inc 357.23°Az
CALCILUTITE:dk gy-olv gy,
slty g/t CLSLT,tr liths,
tr vf calc grs,tr vf glauc grs,
frm-mod hd,sbblky-blky.
CALCILUTITE:dk gy-olv gy,
slty g/t CLSLT,tr liths,
tr vf calc grs,tr vf glauc grs,
frm-mod hd,sbblky-blky.
CALCILUTITE:dk gy-olv gy,
slty g/t CLSLT,tr liths,
tr vf calc grs,tr vf glauc grs,
frm-mod hd,sbblky-blky.
CALCILUTITE:med dk gy-
olv gy,slty g/t CLSLT,tr liths,
tr carb spks,tr vf calc grs,
frm-mod hd,sbblky.
CALCILUTITE:med dk gy-
olv gy,slty g/t CLSLT,tr liths,
tr carb spks,tr vf calc grs,
frm-mod hd,sbblky.

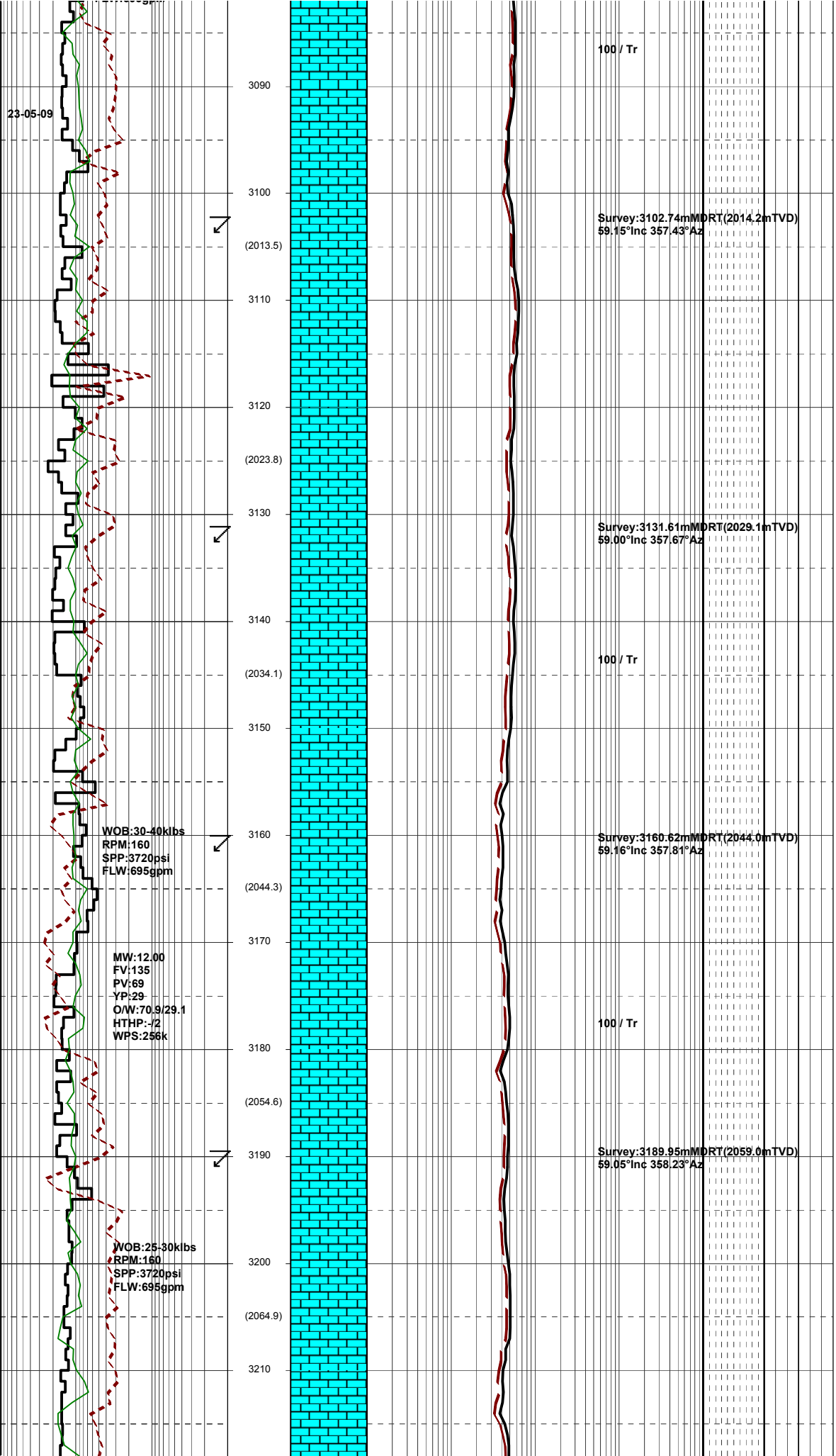

MW:12.00
FV:132
PV:64
YP:27
O/W:69.9/30:1
HTHP:-/2
WPS:240k
2410
2420
(1663.8)
2430
2440
(1673.9)
2450
2460
(1684.1)
2470
2480
(1694.4)
2490
WOB:17-32klbs
RPM:157-169
SPP:3673psi
FLW:730gpm
2500
(1704.7)
2510
2520
(1715.1)
2530
Survey:2402.73mMDRT(1654.4mTVD)
59.37°Inc 356.96°Az
100 / Tr
Survey:2431.42mMDRT(1668.9mTVD)
59.62°Inc 356.83°Az
Survey:2460.83mMDRT(1683.9mTVD)
59.30°Inc 356.87°Az
100 / Tr
Survey:2490.09mMDRT(1698.1mTVD)
58.79°Inc 356.03°Az
Survey:2519.32mMDRT(1714.1mTVD)
58.69°Inc 356.62°Az
100 / Tr
CALCILUTITE:med dk gy-dk gy,olv gy,slty g/t CLSLT, tr liths,tr carb spks, tr vf glauc grs,frm-hd,sbblky-blky.
CALCILUTITE:med gy-olv gy, slty g/t CLSLT,tr liths, tr carb spks,frm-mod hd, sbblky-blky.
CALCISILTITE(90%):med gy-olv gy,arg g/t CLCLT, tr liths,pred sft,mnr frm, amor-sbblky.
CALCILUTITE(10%):med gy-olv gy,slty g/t CLSLT, tr liths,pred sft,mnr frm, amor-sbblky.
CALCISILTITE(60%):med gy-olv gy,arg g/t CLCLT, tr liths,pred sft,tr frm, amor-sbblky.
CALCILUTITE(40%):med gy-olv gy,slty g/t CLSLT, tr liths,pred sft,tr frm, amor-sbblky.

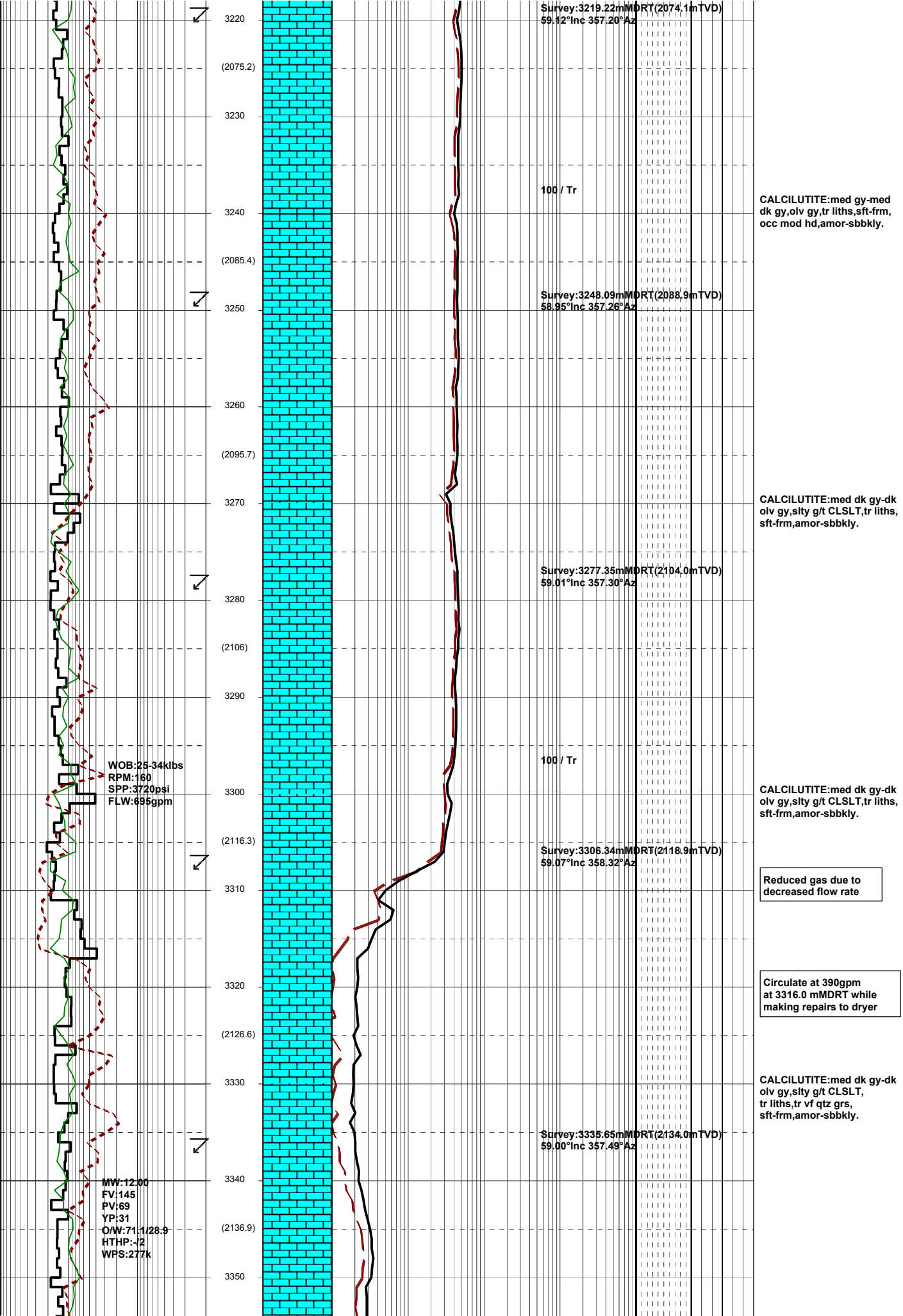

2540
(1725.5)
2550
2560
(1735.8)
2570
2580
(1746.2)
2590
2600
(1756.5)
2610
2620
(1766.7)
2630
2640
(1777)
2650
2660
(1787.3)
2670
WOB:25-30klbs
RPM:160-165
SPP:3730psi
FLW:730gpm
Survey:2548.14mMDRT(1729.0mTVD)
58.95°Inc 357.18°Az
Survey:2577.22mMDRT(1744.0mTVD)
58.79°Inc 358.29°Az
100 / Tr
Survey:2606.68mMDRT(1759.2mTVD)
59.14°Inc 358.39°Az
Survey:2636.09mMDRT(1774.3mTVD)
59.10°Inc 359.04°Az
100 / Tr
Survey:2664.82mMDRT(1789.1mTVD)
59.18°Inc 359.01°Az
CALCILUTITE:med gy-med dk gy,olv gy,tr liths, pred sft,tr frm,amor-sbbkly.
CALCILUTITE:med gy-med dk gy,olv gy,tr liths, sft-frm,amor-sbbkly.
CALCILUTITE:med gy-med dk gy,olv gy,tr liths, sft-frm,amor-sbbkly.
CALCILUTITE:med gy-med dk gy,olv gy,tr liths, sft-frm,amor-sbbkly.
CALCILUTITE:med gy-med dk gy,olv gy,tr liths,tr vf qtz grs,pred sft-tr frm, amor-sbbkly.

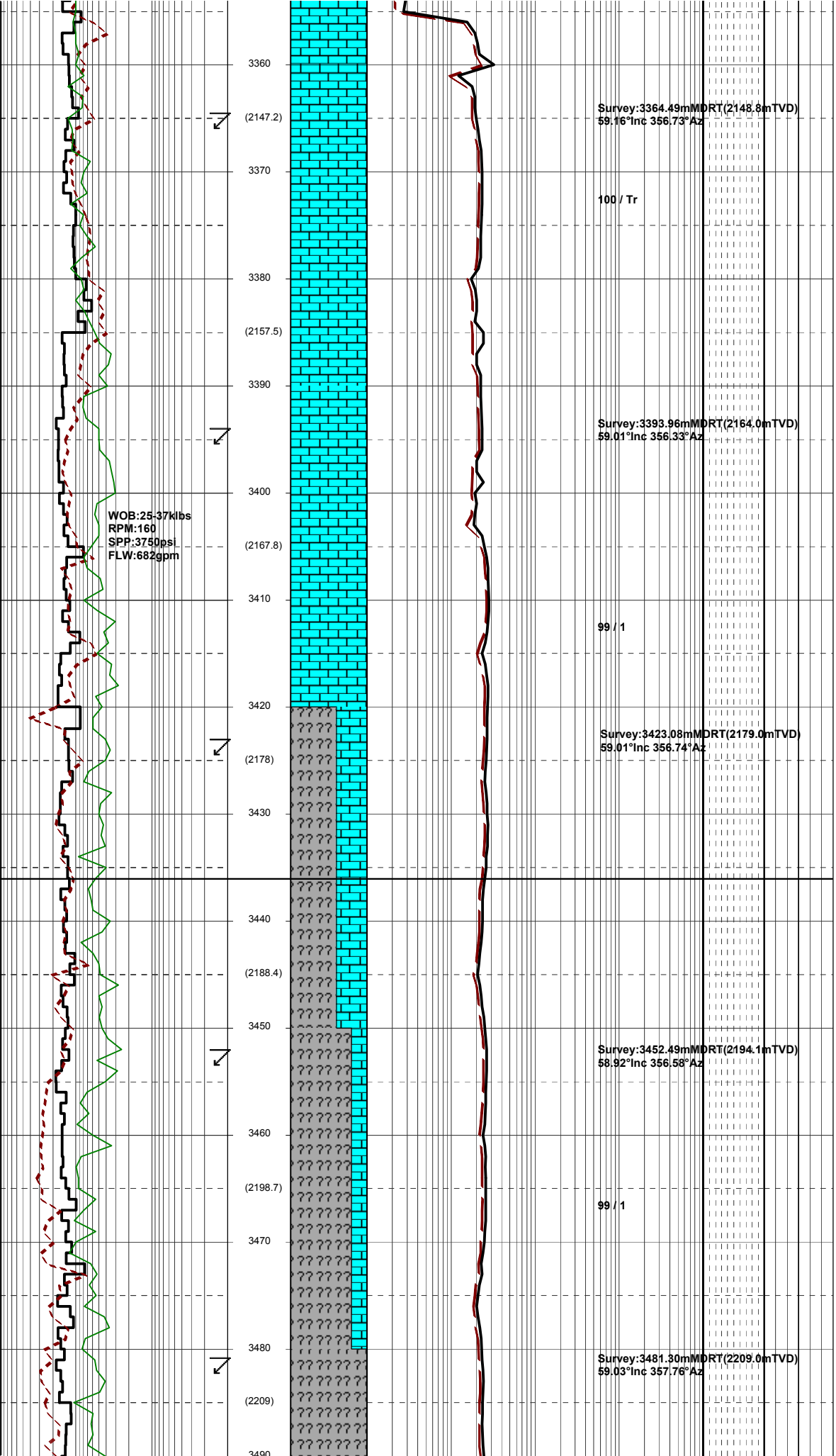

2680
(1797.5)
2690
2700
(1807.8)
2710
2720
(1818)
2730
2740
(1828.3)
2750
2760
(1838.6)
2770
2780
(1848.8)
2790
2800
(1859.1)
2810
WOB:25-35klbs
RPM:160
SPP:3650psi
FLW:710gpm
MW:12.00
FV:125
PV:62
YP:32
O/W:71.1/28.9
HTHP:-/2
WPS:263k
WOB:30-35klbs
RPM:160
SPP:3700psi
FLW:715gpm
Survey:2694.00mMDRT(1804.0mTVD)
59.08°Inc 358.32°Az
100 / Tr
Survey:2723.00mMDRT(1819.2mTVD)
59.25°Inc 358.95°Az
Survey:2752.57mMDRT(1834.1mTVD)
58.97°Inc 357.56°Az
100 / Tr
Survey:2781.38mMDRT(1848.9mTVD)
59.20°Inc 359.12°Az
Survey:2810.67mMDRT(1863.9mTVD)
59.22°Inc 358.30°Az
CALCILUTITE:med gy-med dk gy,olv gy,tr liths, pred sft,tr frm-mod hd, amor-sbbkly.
CALCILUTITE:med gy-med dk gy,olv gy,tr liths, pred sft,tr frm-mod hd, amor-sbbkly.
CALCILUTITE:med gy-med dk gy,olv gy,tr liths, pred sft,tr frm-mod hd, amor-sbbkly.
Reduced gas due to deceased flow rate

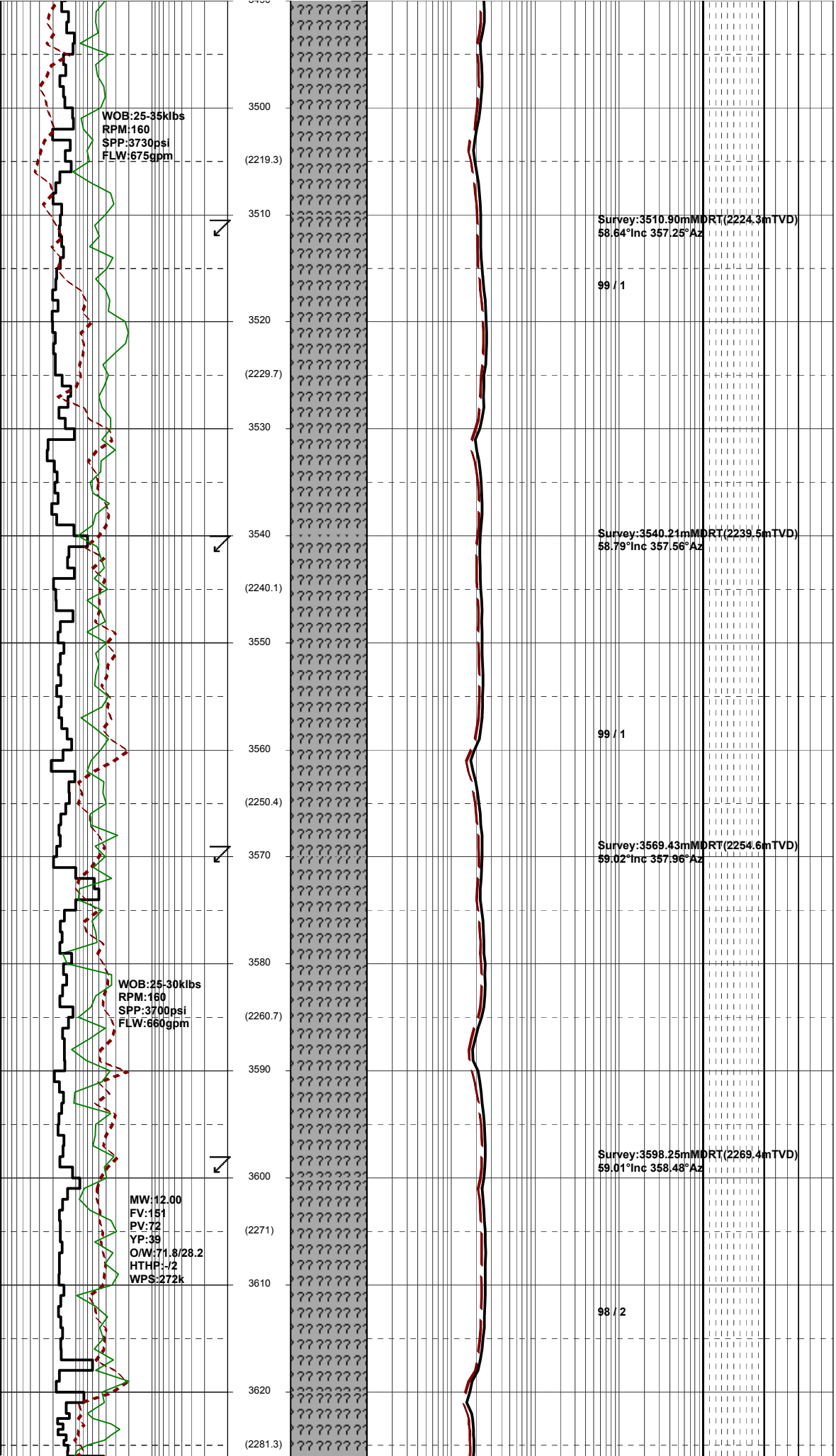

2820
(1869.3)
2830
2840
(1879.6)
2850
2860
(1889.8)
2870
2880
(1900.1)
2890
2900
(1910.4)
2910
2920
(1920.7)
2930
2940
(1931.1)
WOB:28-40klbs
RPM:160
SPP:3735psi
FLW:706gpm
100 / Tr
Survey:2839.96mMDRT(1878.9mTVD)
59.21°Inc 357.85°Az
Survey:2869.40mMDRT(1893.9mTVD)
59.21°Inc 357.09°Az
100 / Tr
Survey:2898.43mMDRT(1908.9mTVD)
58.86°Inc 356.70°Az
Survey:2927.56mMDRT(1924.0mTVD)
58.69°Inc 356.94°Az
CALCILUTITE:med gy-med dk gy,olv gy,tr liths, pred sft,tr frm-mod hd, amor-sbbkly.
Circulate at 390gpm at 2826.0 mMDRT while making repairs to drier
CALCILUTITE:med gy-med dk gy,olv gy,tr liths, pred sft,tr frm-mod hd, amor-sbbkly.
CALCILUTITE:med gy-med dk gy,olv gy,tr liths, pred sft,tr frm-mod hd, amor-sbbkly.
CALCILUTITE:med gy-med dk gy,olv gy,tr liths, pred sft,tr frm-mod hd, amor-sbbkly.
Change Delasco rubber on GZG (main gas)
CALCILUTITE:med gy-med dk gy,olv gy,tr liths,sft-frm, sbbkly-blky.

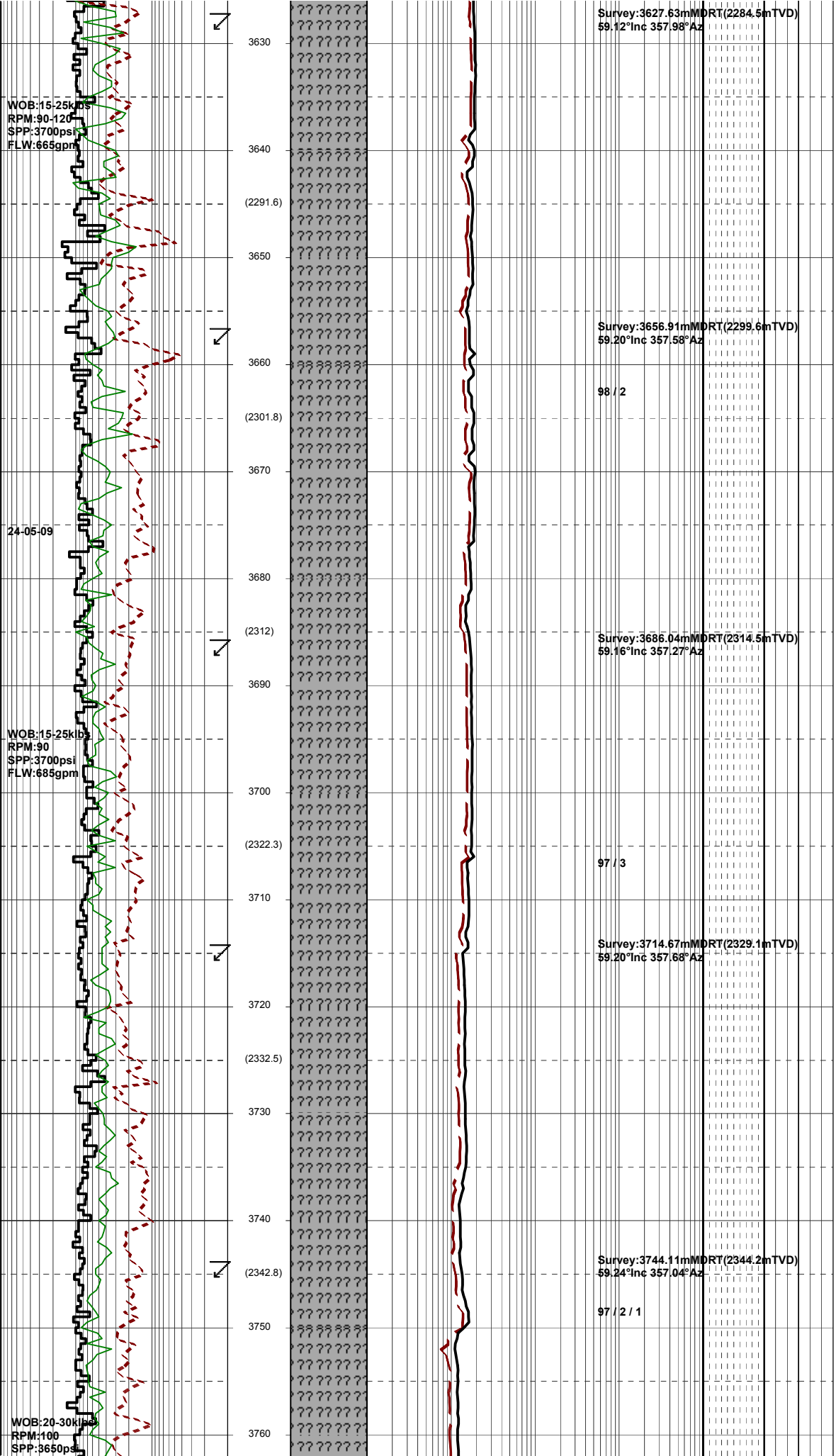

2950
2960
(1941.4)
2970
2980
(1951.7)
2990
3000
(1962)
3010
3020
(1972.3)
3030
3040
(1982.7)
3050
3060
(1993)
3070
3080
Survey:2956.93mMDRT(1939.1mTVD)
59.11°Inc 357.54°Az
100 / Tr
Survey:2986.29mMDRT(1954.3mTVD)
58.88°Inc 358.37°Az
WOB:28-35klbs
RPM:160
SPP:3735psi
FLW:706gpm
MW:12.00
FV:139
PV:70
YP:36
O/W:70.9/29.1
HTHP:-/2
WPS:258k
Survey:3015.08mMDRT(1969.1mTVD)
58.97°Inc 357.63°Az
100 / Tr
Survey:3044.22mMDRT(1984.2mTVD)
58.86°Inc 357.81°Az
Survey:3073.36mMDRT(1999.2mTVD)
59.17°Inc 358.00°Az
WOB:25-32klbs
RPM:160
SPP:3750psi
FLW:695gpm
CALCILUTITE:med gy-med dk gy,olv gy,tr liths,com carb spks,sft-frm,sbbkly-blky.
CALCILUTITE:med gy-med dk gy,olv gy,tr liths,rr carb spks,sft-frm,sbbkly-blky.
CALCILUTITE:med gy-med dk gy,olv gy,tr liths,tr carb spks,tr vf calc grns,sft-frm, sbbkly-blky.
CALCILUTITE:med gy-med dk gy,olv gy,tr liths,tr carb spks,sft-frm,occ mod hd, sbbkly-blky.

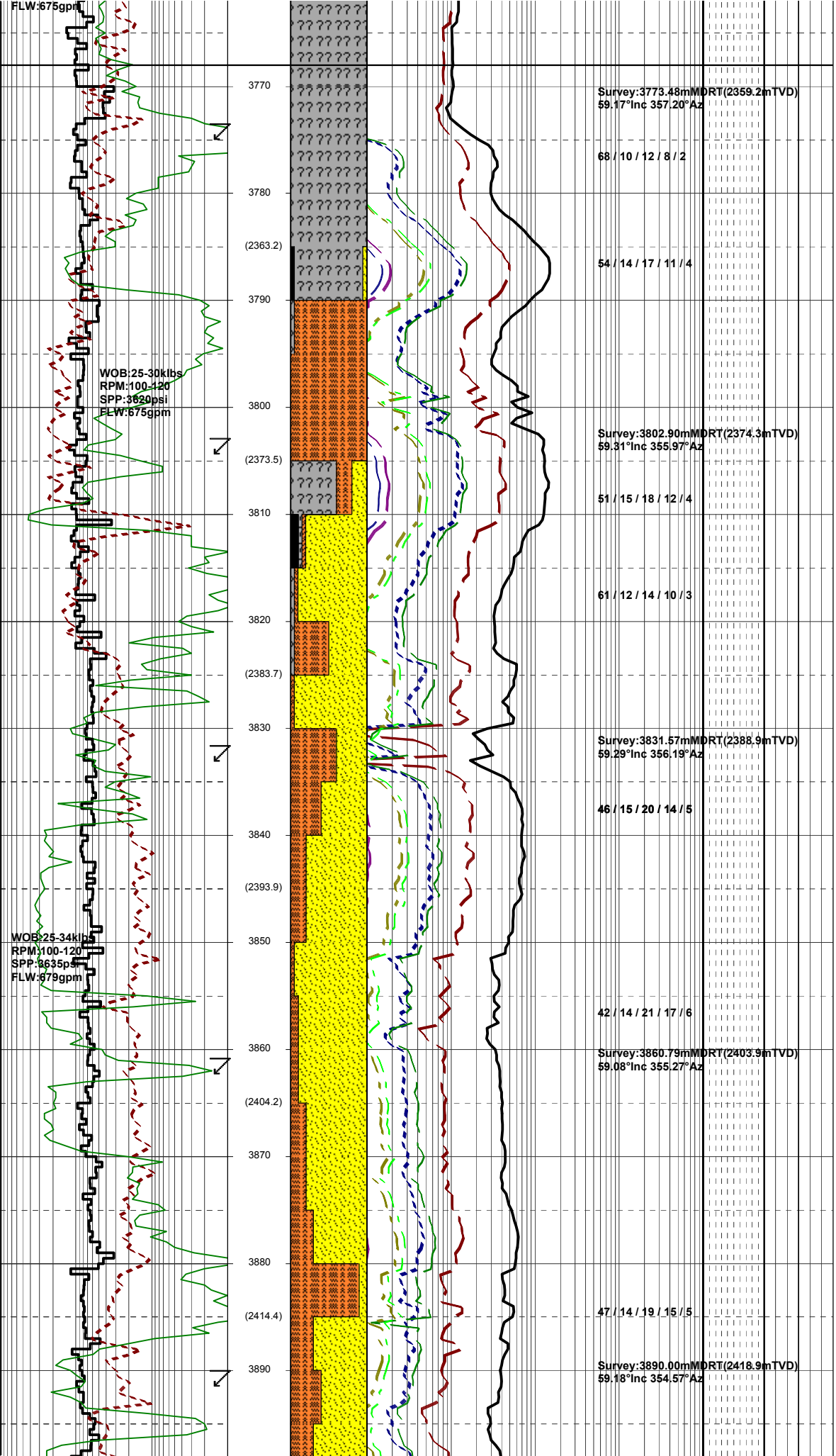

23-05-09
3090
3100
(2013.5)
3110
3120
(2023.8)
3130
3140
(2034.1)
3150
3160
(2044.3)
3170
3180
(2054.6)
3190
3200
(2064.9)
3210
100 / Tr
Survey:3102.74mMDRT(2014.2mTVD)
59.15°Inc 357.43°Az
Survey:3131.61mMDRT(2029.1mTVD)
59.00°Inc 357.67°Az
100 / Tr
Survey:3160.62mMDRT(2044.0mTVD)
59.16°Inc 357.81°Az
100 / Tr
Survey:3189.95mMDRT(2059.0mTVD)
59.05°Inc 358.23°Az
WOB:30-40klbs
RPM:160
SPP:3720psi
FLW:695gpm
MW:12.00
FV:135
PV:69
YP:29
O/W:70.9/29.1
HTHP:-/2
WPS:256k
WOB:25-30klbs
RPM:160
SPP:3720psi
FLW:695gpm
CALCILUTITE:med gy-med dk gy,olv gy,tr liths,tr carb spks,sft-frm,occ mod hd, sbbkly-blky.
CALCILUTITE:med gy-med dk gy,olv gy,tr liths,tr carb spks,sft-frm,occ mod hd, sbbkly-blky.
CALCILUTITE:med gy-med dk gy,olv gy,tr liths,tr carb spks,sft-frm,occ mod hd, sbbkly-blky.
CALCILUTITE:med gy-med dk gy,olv gy,tr liths,sft-frm, occ mod hd,amor-sbbkly.
CALCILUTITE:med gy-med dk gy,olv gy,tr liths,sft-frm, occ mod hd,amor-sbbkly.

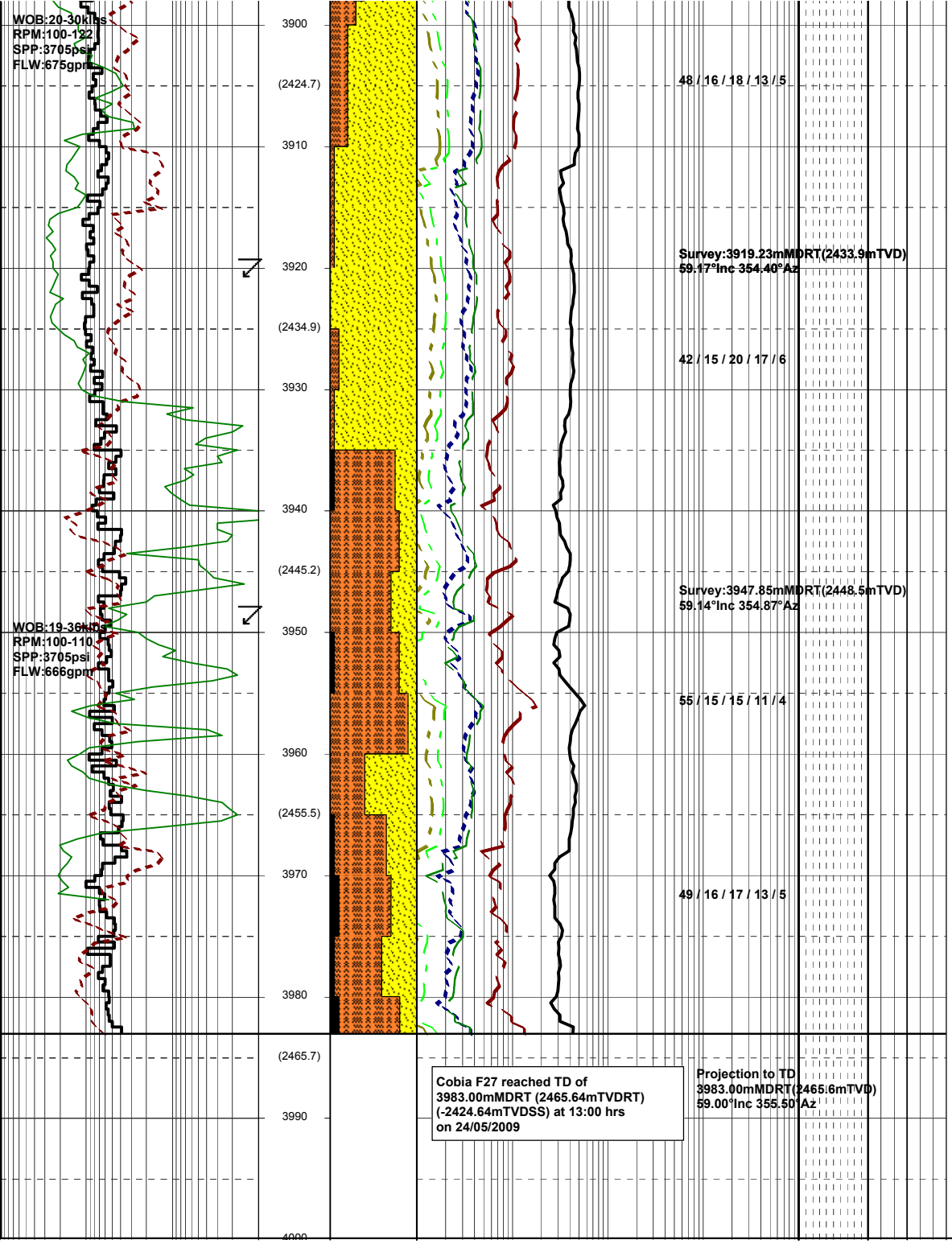

3220
(2075.2)
3230
3240
(2085.4)
3250
3260
(2095.7)
3270
3280
(2106)
3290
3300
(2116.3)
3310
3320
(2126.6)
3330
3340
(2136.9)
3350
Survey:3219.22mMDRT(2074.1mTVD)
59.12°Inc 357.20°Az
100 / Tr
Survey:3248.09mMDRT(2088.9mTVD)
58.95°Inc 357.26°Az
Survey:3277.35mMDRT(2104.0mTVD)
59.01°Inc 357.30°Az
100 / Tr
Survey:3306.34mMDRT(2118.9mTVD)
59.07°Inc 358.32°Az
Survey:3335.65mMDRT(2134.0mTVD)
59.00°Inc 357.49°Az
WOB:25-34klbs
RPM:160
SPP:3720psi
FLW:695gpm
MW:12.00
FV:145
PV:69
YP:31
O/W:71.1/28.9
HTHP:-/2
WPS:277k
CALCILUTITE:med gy-med dk gy,olv gy,tr liths,sft-frm, occ mod hd,amor-sbbkly.
CALCILUTITE:med dk gy-dk olv gy,slty g/t CLSLT,tr liths, sft-frm,amor-sbbkly.
CALCILUTITE:med dk gy-dk olv gy,slty g/t CLSLT,tr liths, sft-frm,amor-sbbkly.
Reduced gas due to decreased flow rate
Circulate at 390gpm at 3316.0 mMDRT while making repairs to dryer
CALCILUTITE:med dk gy-dk olv gy,slty g/t CLSLT, tr liths,tr vf qtz grs, sft-frm,amor-sbbkly.


3360
(2147.2)
3370
3380
(2157.5)
3390
3400
(2167.8)
3410
3420
(2178)
3430
3440
(2188.4)
3450
3460
(2198.7)
3470
3480
(2209)
3490
WOB:25-37klbs
RPM:160
SPP:3750psi
FLW:682gpm
Survey:3364.49mMDRT(2148.8mTVD)
59.16°Inc 356.73°Az
100 / Tr
Survey:3393.96mMDRT(2164.0mTVD)
59.01°Inc 356.33°Az
99 / 1
Survey:3423.08mMDRT(2179.0mTVD)
59.01°Inc 356.74°Az
Survey:3452.49mMDRT(2194.1mTVD)
58.92°Inc 356.58°Az
99 / 1
Survey:3481.30mMDRT(2209.0mTVD)
59.03°Inc 357.76°Az
CALCILUTITE:lt olv gy-olv gy,med dk gy,slty g/t CLSLT,tr liths,tr vf qtz grs,pred sft,occ frm, amor-sbblky.
CALCILUTITE:lt olv gy-olv gy,med dk gy,slty g/t CLSLT,tr liths,tr vf qtz grs,pred sft,occ frm, amor-sbblky.
CALCILUTITE:lt olv gy-olv gy,med dk gy,slty g/t CLSLT,tr liths,tr vf qtz grs,pred sft,occ frm, amor-sbblky.
Lakes Entrance Fm:
3436.0mMDRT 2184.7mTVDRT
(-2143.7mTVDSS)
CALCILUTITE(40%):lt olv gy-olv gy,med dk gy,slty g/t CLSLT,tr liths,tr vf qtz grs,pred sft,occ frm, amor-sbblky.
CALCAREOUS CLAYSTONE(60%): med lt gy-lt olv gy,abdt calc g/t CLCLT,tr liths,tr glauc cly, sft,amor-sbblky.
CALCILUTITE(20%):lt olv gy-olv gy,med dk gy,slty g/t CLSLT,tr liths,tr vf qtz grs,pred sft,occ frm, amor-sbblky.
CALCAREOUS CLAYSTONE(80%): med lt gy-lt olv gy,abdt calc g/t CLCLT,tr liths,tr glauc cly, sft,amor-sbblky.


WOB:25-35klbs
RPM:160
SPP:3730psi
FLW:675gpm
3500
(2219.3)
3510
Survey:3510.90mMDRT(2224.3mTVD)
58.64°Inc 357.25°Az
99 / 1
3520
(2229.7)
3530
3540
Survey:3540.21mMDRT(2239.5mTVD)
58.79°Inc 357.56°Az
(2240.1)
3550
99 / 1
3560
(2250.4)
3570
Survey:3569.43mMDRT(2254.6mTVD)
59.02°Inc 357.96°Az
3580
WOB:25-30klbs
RPM:160
SPP:3700psi
FLW:660gpm
(2260.7)
3590
3600
Survey:3598.25mMDRT(2269.4mTVD)
59.01°Inc 358.48°Az
MW:12.00
FV:151
PV:72
YP:39
O/W:71.8/28.2
HTHP:-/2
WPS:272k
(2271)
3610
98 / 2
3620
(2281.3)
CALCAREOUS CLAYSTONE:
med lt gy-lt olv gy,abdt calc
g/t CLCLT,tr liths,tr glauc cly,
sft,amor-sbblky.
CALCAREOUS CLAYSTONE:
med lt gy-lt olv gy,abdt calc
g/t CLCLT,tr liths,tr glauc cly,
sft,amor-sbblky.
CALCAREOUS CLAYSTONE:
med lt gy-med gy,lt olv gy,
com calc,tr liths,tr glauc cly,
sft,amor-sbblky.
CALCAREOUS CLAYSTONE:
med lt gy-med gy,lt olv gy,
com calc,tr liths,tr glauc cly,
sft-rr frm,amor-sbblky.
CALCAREOUS CLAYSTONE:
med gy-med dk gy,olv gy,
com calc,tr liths,tr glauc cly,
v sft-sft,mor-sbblky.


3630
3640
(2291.6)
3650
3660
(2301.8)
3670
3680
(2312)
3690
3700
(2322.3)
3710
3720
(2332.5)
3730
3740
(2342.8)
3750
3760
WOB:15-25klbs
RPM:90-120
SPP:3700psi
FLW:665gpm
24-05-09
WOB:15-25klbs
RPM:90
SPP:3700psi
FLW:685gpm
WOB:20-30klbs
RPM:100
SPP:3650psi
Survey:3627.63mMDRT(2284.5mTVD)
59.12°Inc 357.98°Az
Survey:3656.91mMDRT(2299.6mTVD)
59.20°Inc 357.58°Az
98 / 2
Survey:3686.04mMDRT(2314.5mTVD)
59.16°Inc 357.27°Az
97 / 3
Survey:3714.67mMDRT(2329.1mTVD)
59.20°Inc 357.68°Az
Survey:3744.11mMDRT(2344.2mTVD)
59.24°Inc 357.04°Az
97 / 2 / 1
CALCAREOUS CLAYSTONE: med gy-med dk gy,olv gy, com calc,tr liths,tr glauc cly, v sft-sft,rr frm,amor-sbblky.
CALCAREOUS CLAYSTONE: med gy-med dk gy,olv gy, com calc,tr liths,tr dissem pyr, tr glauc cly,v sft-sft,rr frm, amor-sbblky.
CALCAREOUS CLAYSTONE: med dk gy-olv gy,com calc, tr liths,tr nod pyr,v sft-sft, rr frm,amor-sbblky.
CALCAREOUS CLAYSTONE: med gy-med dk gy,lt olv gy- olv gy,mod calc,tr dissem pyr, tr liths,sft-occ frm,amor-sbblky.
CALCAREOUS CLAYSTONE: med gy-med dk gy,lt olv gy, mod calc,tr dissem pyr,tr liths, v sft-sft,rr frm,amor-sbblky.
CALCAREOUS CLAYSTONE: med lt gy-med gy,lt olv gy,com calc,tr liths,tr vf glauc grs, v sft-sft,rr frm,amor-sbblky.
CALCAREOUS CLAYSTONE: med lt gy-med gy,lt olv gy,com calc,tr liths,tr vf glauc grs, v sft-sft,rr frm,amor-sbblky.
CALCAREOUS CLAYSTONE: med lt gy-med gy,lt olv gy,com calc,tr liths,tr vf glauc grs, v sft-sft,rr frm,amor-sbblky.


FLW:675gpm
3770
Survey:3773.48mMDRT(2359.2mTVD)
59.17°Inc 357.20°Az
68 / 10 / 12 / 8 / 2
3780
(2363.2)
54 / 14 / 17 / 11 / 4
3790
WOB:25-30klbs
RPM:100-120
SPP:3620psi
FLW:675gpm
3800
Survey:3802.90mMDRT(2374.3mTVD)
59.31°Inc 355.97°Az
(2373.5)
51 / 15 / 18 / 12 / 4
3810
61 / 12 / 14 / 10 / 3
3820
(2383.7)
3830
Survey:3831.57mMDRT(2388.9mTVD)
59.29°Inc 356.19°Az
46 / 15 / 20 / 14 / 5
3840
(2393.9)
WOB:25-34klbs
RPM:100-120
SPP:3635psi
FLW:679gpm
3850
42 / 14 / 21 / 17 / 6
3860
Survey:3860.79mMDRT(2403.9mTVD)
59.08°Inc 355.27°Az
(2404.2)
3870
3880
(2414.4)
47 / 14 / 19 / 15 / 5
3890
Survey:3890.00mMDRT(2418.9mTVD)
59.18°Inc 354.57°Az
Latrobe Group
3768.0mMDRT 2355.5mTVDRT
(-2314.5mTVDSS)
CALCAREOUS CLAYSTONE:
med lt gy-med gy,lt olv gy,tr lt brn,
com calc,tr liths,tr vf glauc cly,disp-
sft,tr frm,pred amor-sbblky.
COAL:gy blk-blk,ea-sbvit,brit,
sbblky,unevn frac,slty,g/t carb
SLTST.
SANDSTONE:clr-trnsl,tr frstd,
pred f-med,tr crs,mod wl srt,sa-
sr,lse,mod inf por,no fluor.
SILTSTONE:med dk gy-olv gy,
arg,com vf aren,tr calc,tr liths,
sft,tr frm,amor-sbblky.
CALCAREOUS CLAYSTONE:
med lt gy-med gy,com calc,tr liths,
tr glauc cly,disp-sft,amor.
SANDSTONE:clr-trnsl,frstd,tr
mlky,f-v crs,pred med-crs,pr srt,sa-
sr,lse,tr rnd,lse,pr inf por,no fluor.
COAL:gy blk-blk,ea-sbvit,brit,
sbblky,unevn frac,slty,g/t carb
SLTST.
SILTSTONE:med dk gy-dk gy,tr
vf glauc grs,tr liths,tr carb spks,
sft-pred frm,sbblky.
SANDSTONE:clr-trnsl,frstd,pa
orng,f-v crs,pr srt,sa-sr,tr pyr cmt,
lse,pr inf por,no fluor.
SILTSTONE:med dk gy-dk gy,tr
liths,tr carb spks,sft-frm,sbblky.
SANDSTONE:clr-trnsl,frstd,tr pa
orng & pa pnk,f-v crs,pr srt,sa-sr,
tr rnd,tr pyr cmt,tr-rr nod pyr,lse,
pr inf por,no fluor.
Take Slow Circulation Rates
at 3851.0 mMDRT drill depth
3829.0 mMDRT lag depth
SANDSTONE:clr-trnsl,frstd,tr pa
yel,f-v crs,pred med-crs,pr-mod
srt,sa-sr,tr nod pyr,lse,mod inf por,
no fluor.
SILTSTONE:med lt gy-dk gy,tr
liths,tr carb spks,rr arg,tr calc,
sft-frm,amor-sbblky.
SANDSTONE:clr-trnsl,frstd,tr pa
yel,f-v crs,pr srt,sa-sr,tr nod pyr,
lse,pr inf por,no fluor.
SILTSTONE:med gy-med dk gy,
mnr med lt gy,tr liths,tr carb spks,
tr vf aren,sft-frm,amor-sbblky.
Static flow check
at 3892.0 mMDRT



SANDSTONE:clr-trnsl,frstd,f-v crs,pred med-crs,mod wl srt, sa-sr,tr pyr cmt,tr nod pyr,lse, mod inf por,no fluor.

SILTSTONE:med gy-med dk gy, tr liths,sft-frm,amor-sbblky.

SANDSTONE:clr-trnsl,frstd,tr mlky,f-v crs,pred med-crs,mod wl srt,sa-sr,tr nod pyr,lse,gd inf por,no fluor.

SANDSTONE:clr-trnsl,frstd, mlky,pred med-v crs,mnr f,pr srt, sa-sr,tr pyr cmt,tr nod pyr,lse, pr inf por,no fluor.

SILTSTONE:med dk gy-gy blk, tr liths,tr carb spks,sft-frm, amor-sbblky,tr sbfiss.

SANDSTONE:clr-trnsl,frstd, f-v crs,pred crs-v crs,wl srt, sa-sr,tr nod pyr,lse,gd inf por, no fluor.

COAL:gy blk-blk,ea-sbvit,brit, sbblky-sbfiss,unevn frac,slty g/t carb SLTST.

SILTSTONE:med dk gy-dk gy, tr liths,tr carb spks,tr vf aren, sft-frm,amor-sbblky.

SANDSTONE:clr-trnsl,frstd, f-v crs,pred f-med,wl srt,sa-sr,lse,gd inf por,no fluor.