



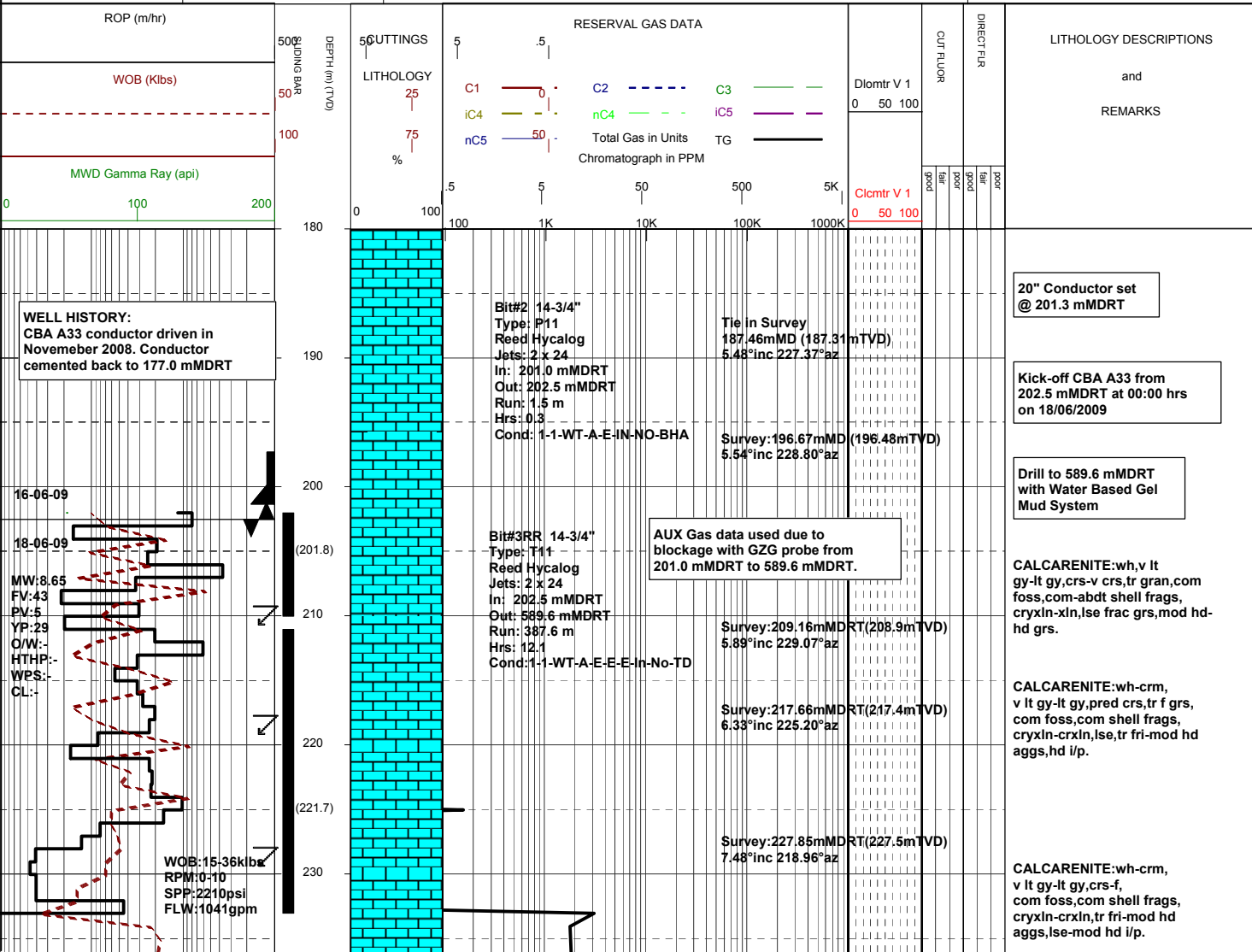
MASTERLOG

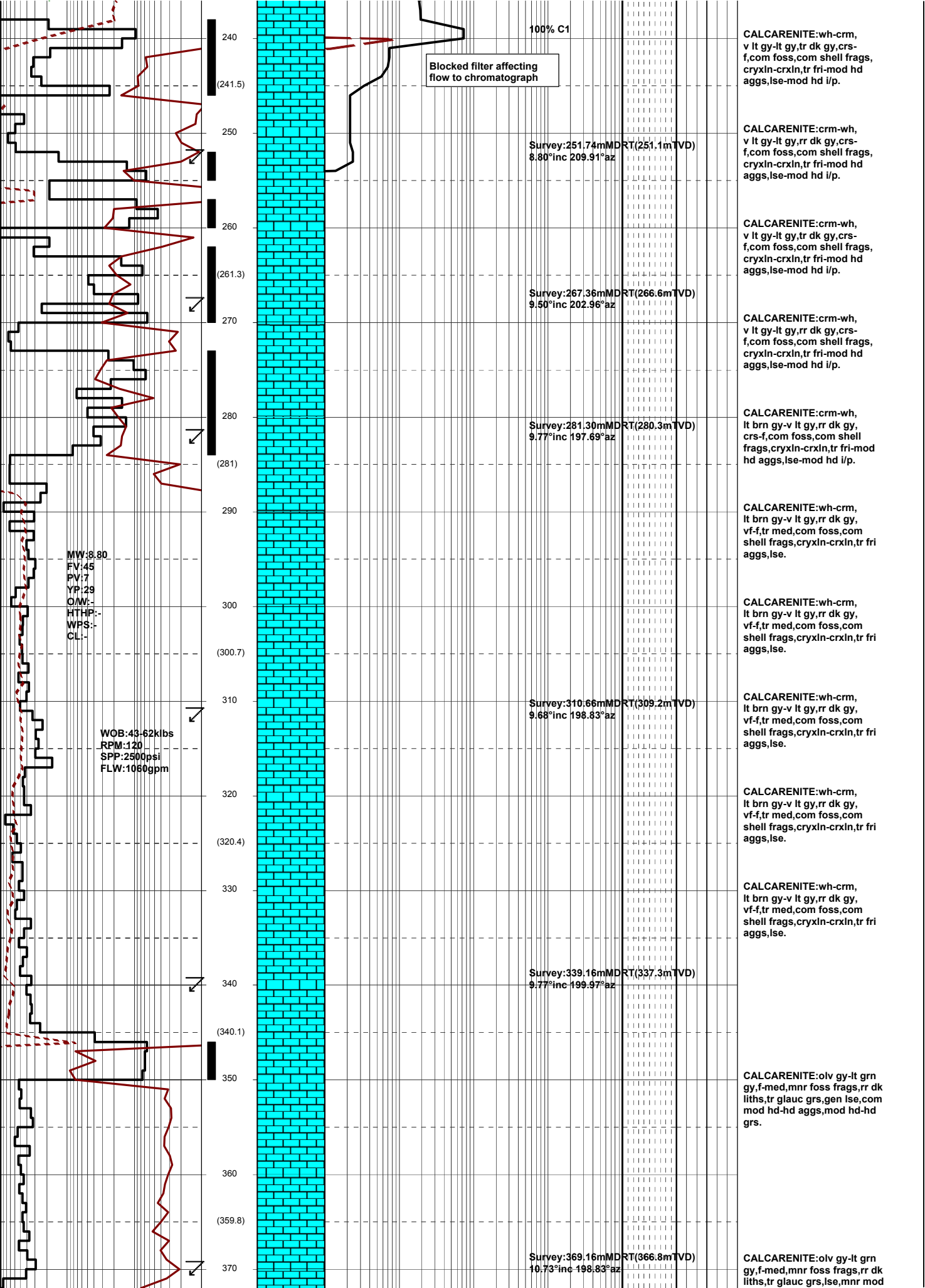
Cobia A33



GENERAL	SURFACE POSITION	HOLE / CASING INFO	DATE / DEPTH	ENGINEERS
Country : AUSTRALIA	Longitude :148°18'32.826" E		Kick off Date: 18/06/2009	Gareth Munro
Permit : VIC / L5	Latitude : 38°26'57.543" S	9-7/8" Hole to 2579.0 mMDRT	Total Depth Date: 24/06/09	Phil Rady
Field : HALIBUT	MGA Co-ord X :6143977.560 mE	20" Conductor at 201.3 mMDRT	Total Depth: 2579.00 mMDRT	Colin Chadwick
Basin : GIPPSLAND	MGA Co-ord Y : 5743018.760 mN	10-3/4" Surface Csg at 587.6 mMDRT	True Vertical Depth: 2502.15 mMDRT	Adam Sullivan
Well Type :DEVELOPMENT	RT to MSL : 41.0 m		Log Scale : 1/ 500	Leigh Dower
Rig Name : Nabors 175	RT to Sea Bed : 120.0 m			

ABBREVIATIONS		LITHOLOGY LEGEND				ENGINEERING LEGEND									
MW	Mud Weight	WOB	Weight on Bit (klbs)		Claystone		Marl		Bryozoa		Glauconite		Casing shoe		Sidewall core
FV	Funnel Viscosity	RPM	Rotations Per Min		Siltstone		Limestone		Radiolariae		Pyrite		Casing top		Core
PV	Plastic Viscosity	FLW	Flow Rate (gpm)		Sandstone		Dolomite		Echinoids		Foraminiferae		Survey		Mud gain
YP	Yield Point	SPP	Pump Pressure (psi)		Shale		Coal-lignite		Cement		MDT		Mud loss		
O/W	Oil/Water Ratio	RR	Re-Run Bit		Conglomerate		Volcanics								
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												





100% C1

Blocked filter affecting flow to chromatograph

CALCARENITE:wh-crm, v lt gy-lt gy,tr dk gy,crs-f,com foss,com shell frags, cryxln-crln,tr fri-mod hd aggs,lse-mod hd i/p.

Survey:251.74mMDRT(251.1mTVD)
8.80°inc 209.91°az

CALCARENITE:crm-wh, v lt gy-lt gy,rr dk gy,crs-f,com foss,com shell frags, cryxln-crln,tr fri-mod hd aggs,lse-mod hd i/p.

CALCARENITE:crm-wh, v lt gy-lt gy,tr dk gy,crs-f,com foss,com shell frags, cryxln-crln,tr fri-mod hd aggs,lse-mod hd i/p.

Survey:267.36mMDRT(266.6mTVD)
9.50°inc 202.96°az

CALCARENITE:crm-wh, v lt gy-lt gy,rr dk gy,crs-f,com foss,com shell frags, cryxln-crln,tr fri-mod hd aggs,lse-mod hd i/p.

Survey:281.30mMDRT(280.3mTVD)
9.77°inc 197.69°az

CALCARENITE:crm-wh, lt brn gy-v lt gy,rr dk gy, crs-f,com foss,com shell frags,cryxln-crln,tr fri-mod hd aggs,lse-mod hd i/p.

CALCARENITE:wh-crm, lt brn gy-v lt gy,rr dk gy, vf-f,tr med,com foss,com shell frags,cryxln-crln,tr fri aggs,lse.

CALCARENITE:wh-crm, lt brn gy-v lt gy,rr dk gy, vf-f,tr med,com foss,com shell frags,cryxln-crln,tr fri aggs,lse.

CALCARENITE:wh-crm, lt brn gy-v lt gy,rr dk gy, vf-f,tr med,com foss,com shell frags,cryxln-crln,tr fri aggs,lse.

CALCARENITE:wh-crm, lt brn gy-v lt gy,rr dk gy, vf-f,tr med,com foss,com shell frags,cryxln-crln,tr fri aggs,lse.

CALCARENITE:wh-crm, lt brn gy-v lt gy,rr dk gy, vf-f,tr med,com foss,com shell frags,cryxln-crln,tr fri aggs,lse.

CALCARENITE:olv gy-lt grn gy,f-med,mnr foss frags,rr dk liths,tr glauc grs,gen lse,com mod hd-hd aggs,mod hd-hd grs.

CALCARENITE:olv gy-lt grn gy,f-med,mnr foss frags,rr dk liths,tr glauc grs,lse,mnr mod

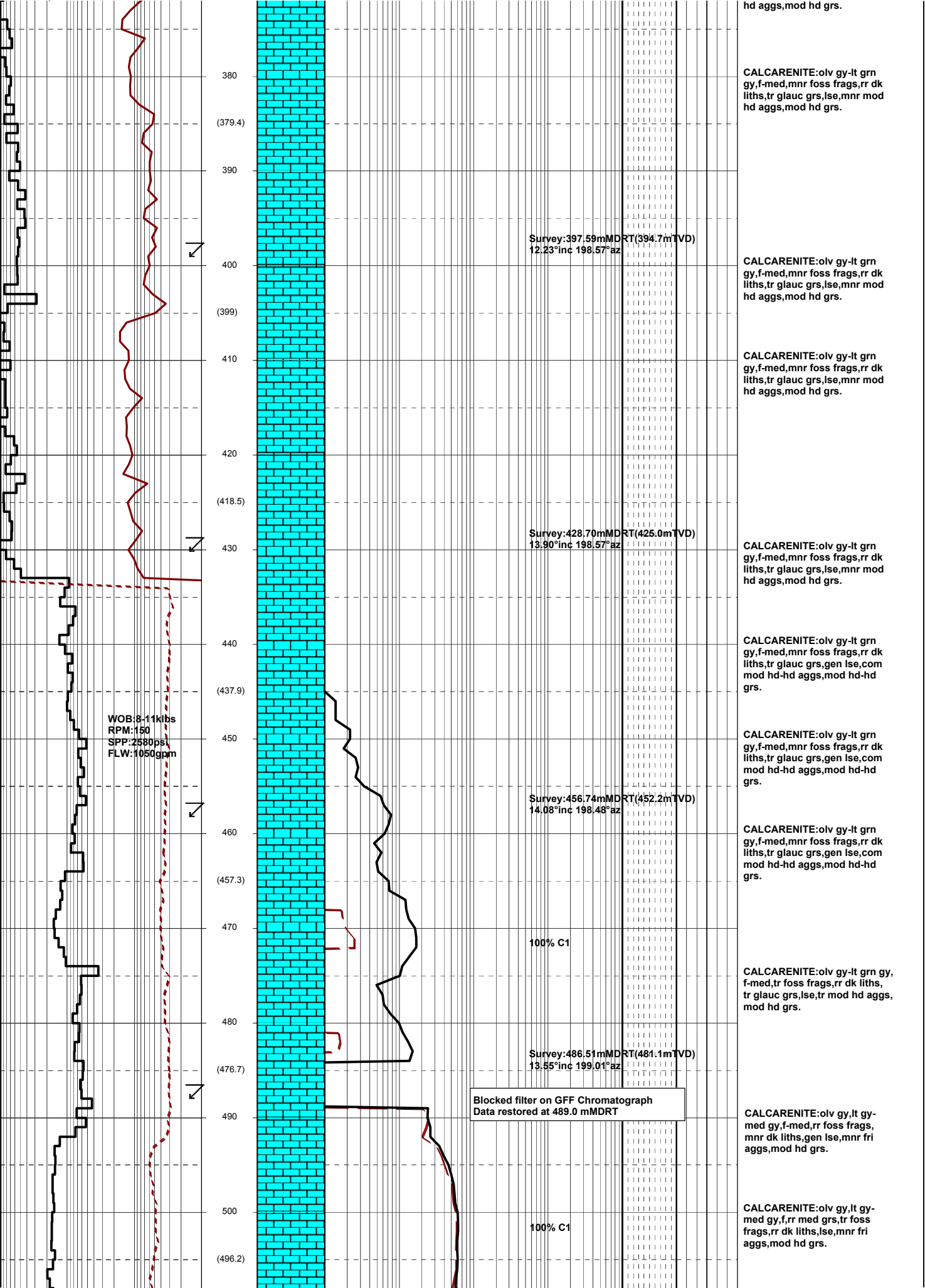
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FV:45
PV:7
YP:29
O/W:-
HTHP:-
WFS:-
CL:-

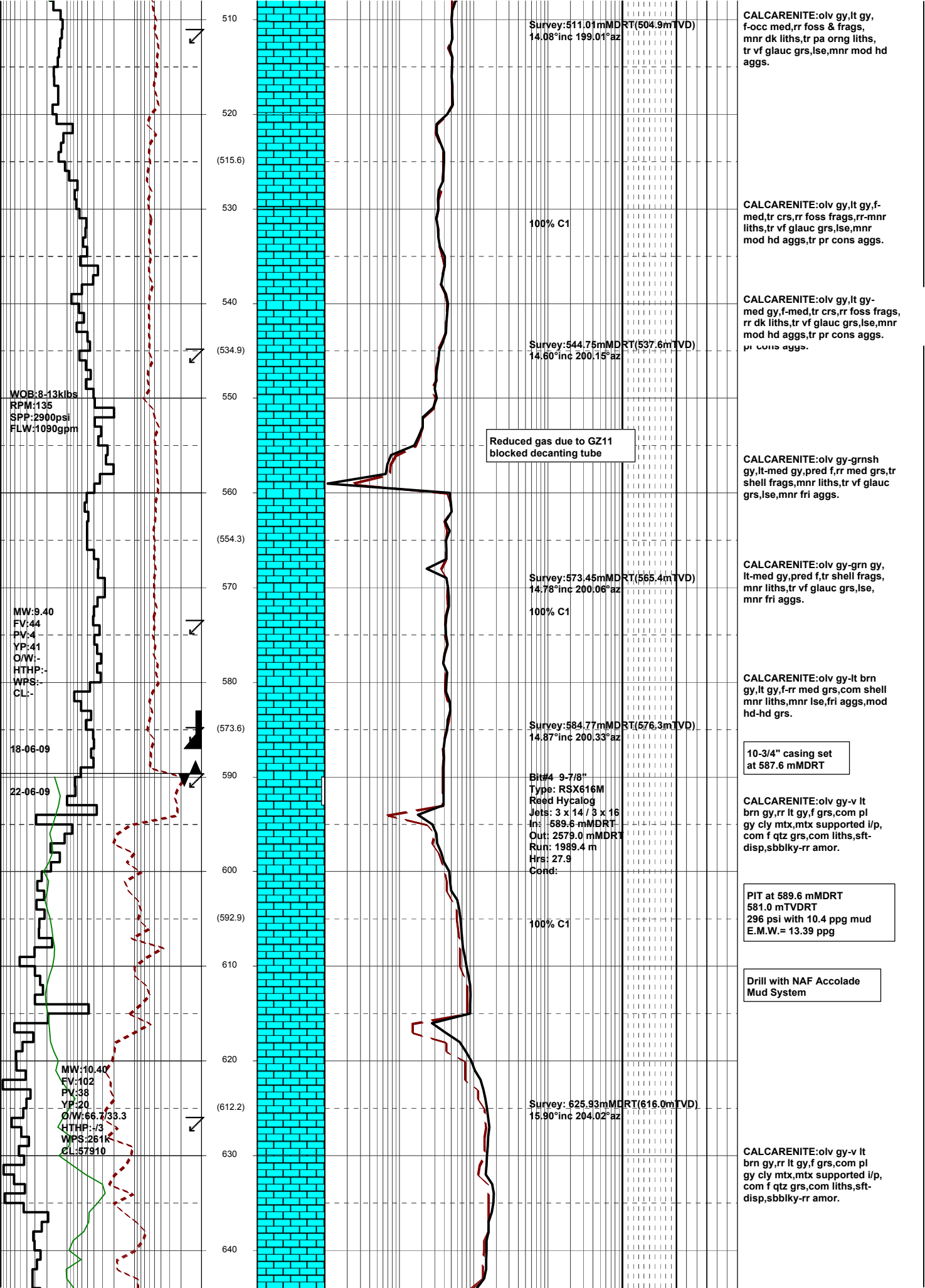
WOB:43-62klbs
RPM:120
SPP:2500psi
FLW:1060gpm

Survey:310.66mMDRT(309.2mTVD)
9.68°inc 198.83°az

Survey:339.16mMDRT(337.3mTVD)
9.77°inc 199.97°az

Survey:369.16mMDRT(366.8mTVD)
10.73°inc 198.83°az





Survey: 511.01mMDRT(504.9mTVD)
14.08°inc 199.01°az

CALCARENITE: olv gy, lt gy, f-occ med, rr foss & frags, mnr dk liths, tr pa org liths, tr vf glauc grs, lse, mnr mod hd aggs.

100% C1

CALCARENITE: olv gy, lt gy, f-med, tr crs, rr foss frags, rr-mnr liths, tr vf glauc grs, lse, mnr mod hd aggs, tr pr cons aggs.

Survey: 544.75mMDRT(537.6mTVD)
14.60°inc 200.15°az

CALCARENITE: olv gy, lt gy, f-med gy, f-med, tr crs, rr foss frags, rr dk liths, tr vf glauc grs, lse, mnr mod hd aggs, tr pr cons aggs.

Reduced gas due to GZ11 blocked decanting tube

CALCARENITE: olv gy-grnsh gy, lt-med gy, pred f, rr med grs, tr shell frags, mnr liths, tr vf glauc grs, lse, mnr fri aggs.

Survey: 573.45mMDRT(565.4mTVD)
14.78°inc 200.06°az

CALCARENITE: olv gy-grn gy, lt-med gy, pred f, tr shell frags, mnr liths, tr vf glauc grs, lse, mnr fri aggs.

Survey: 584.77mMDRT(576.3mTVD)
14.87°inc 200.33°az

CALCARENITE: olv gy-lt brn gy, lt gy, f-rr med grs, com shell mnr liths, mnr lse, fri aggs, mod hd-hd grs.

10-3/4" casing set at 587.6 mMDRT

Bit# 4 9-7/8"
Type: RSX616M
Reed Hycalog
Jets: 3 x 14 / 3 x 16
In: 589.6 mMDRT
Out: 2579.0 mMDRT
Run: 1989.4 m
Hrs: 27.9
Cond:

CALCARENITE: olv gy-v lt brn gy, rr lt gy, f grs, com pl gy cly mtx, mtx supported i/p, com f qtz grs, com liths, sft-disp, sbbly-rr amor.

PIT at 589.6 mMDRT
581.0 mTVDRT
296 psi with 10.4 ppg mud
E.M.W. = 13.39 ppg

Drill with NAF Accolade Mud System

Survey: 625.93mMDRT(616.0mTVD)
15.90°inc 204.02°az

CALCARENITE: olv gy-v lt brn gy, rr lt gy, f grs, com pl gy cly mtx, mtx supported i/p, com f qtz grs, com liths, sft-disp, sbbly-rr amor.

WOB: 8-13klbs
RPM: 135
SPP: 2900psi
FLW: 1090gpm

MW: 9.40
FV: 44
PV: 4
YP: 41
O/W: -
HTHP: -
WPS: -
CL: -

18-06-09

22-06-09

MW: 10.40
FV: 102
PV: 38
YP: 20
O/W: 66.7/33.3
HTHP: 1/3
WPS: 261K
CL: 57910

WOB:20-30klbs
RPM:100-125
SPP:2100-2200psi
FLW:720gpm

650

Survey: 655.19mMDRT(644.1mTVD)
16.22°inc 209.88°az

CALCARENITE:olv gy-v lt
brn gy,rr lt gy,f grs,com pl
gy cly mtx,mtx supported i/p,
com f qtz grs,com liths,sft-
disp,sbbiky-rr amor.

660

(650.7)

670

100 / Tr

680

(689.9)

Survey: 684.66mMDRT(672.4mTVD)
15.92°inc 210.09°az

CALCARENITE:olv gy-v lt
brn gy,rr lt gy,f grs,com pl
gy cly mtx,mtx supported i/p,
com f qtz grs,com liths,sft-
disp,sbbiky-rr amor.

690

700

(689.1)

710

Survey: 713.95mMDRT(700.6mTVD)
16.16°inc 209.41°az

CALCARENITE:olv gy-v lt
bn gy,rr lt gy,f grs,silty i/p,
com pl gy cly mtx,mnr carb
mtx,mtx supported i/p,com f
qtz grs,com liths,sft-disp,
fri,sbbiky.

MW:10.60
FV:83
PV:45
YP:28
O/W:67.7/32.3
HTHP:-/2
WPS:226k
CL:47019

720

(708.3)

730

100 / Tr

740

Survey: 743.19mMDRT(728.7mTVD)
15.68°inc 208.22°az

CALCARENITE:olv gy-v lt
bn gy,rr lt gy,f grs,silty i/p,
com pl gy cly mtx,mnr carb
mtx,mtx supported i/p,com f
qtz grs,com liths,sft-disp,
fri,sbbiky-mnr amor.

750

(727.5)

WOB:15-30klbs
RPM:130-145
SPP:2400psi
FLW:742gpm

760

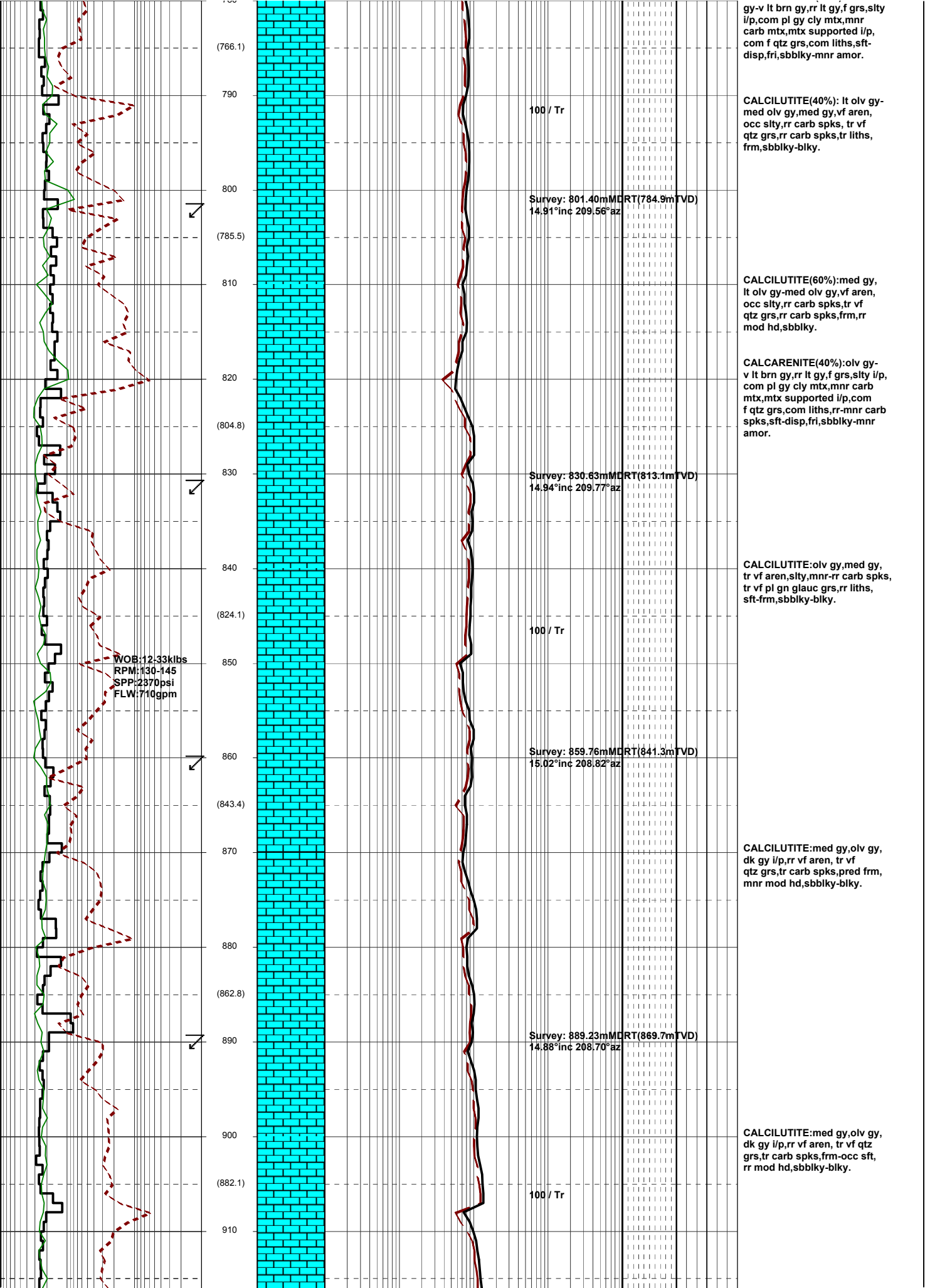
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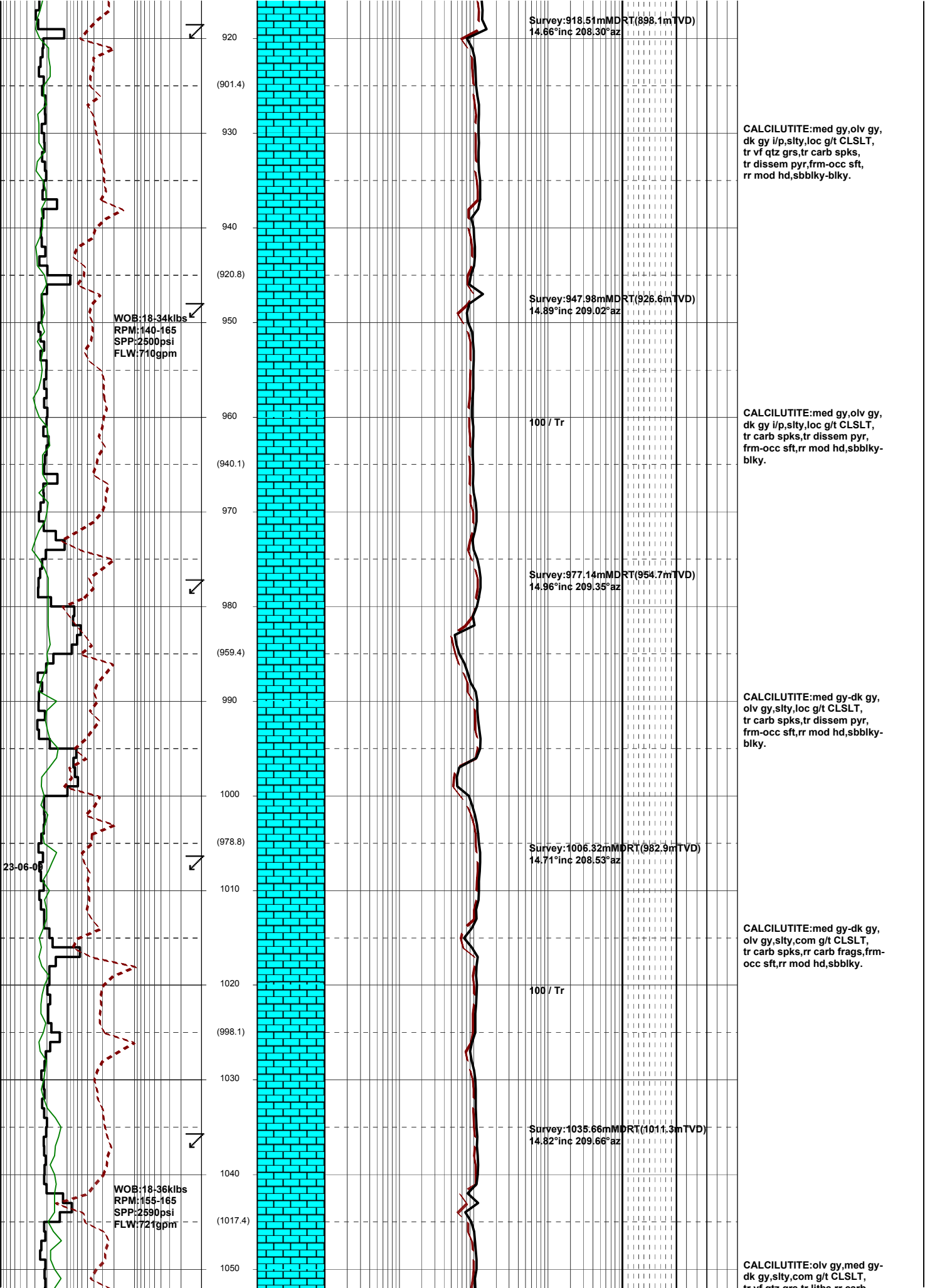
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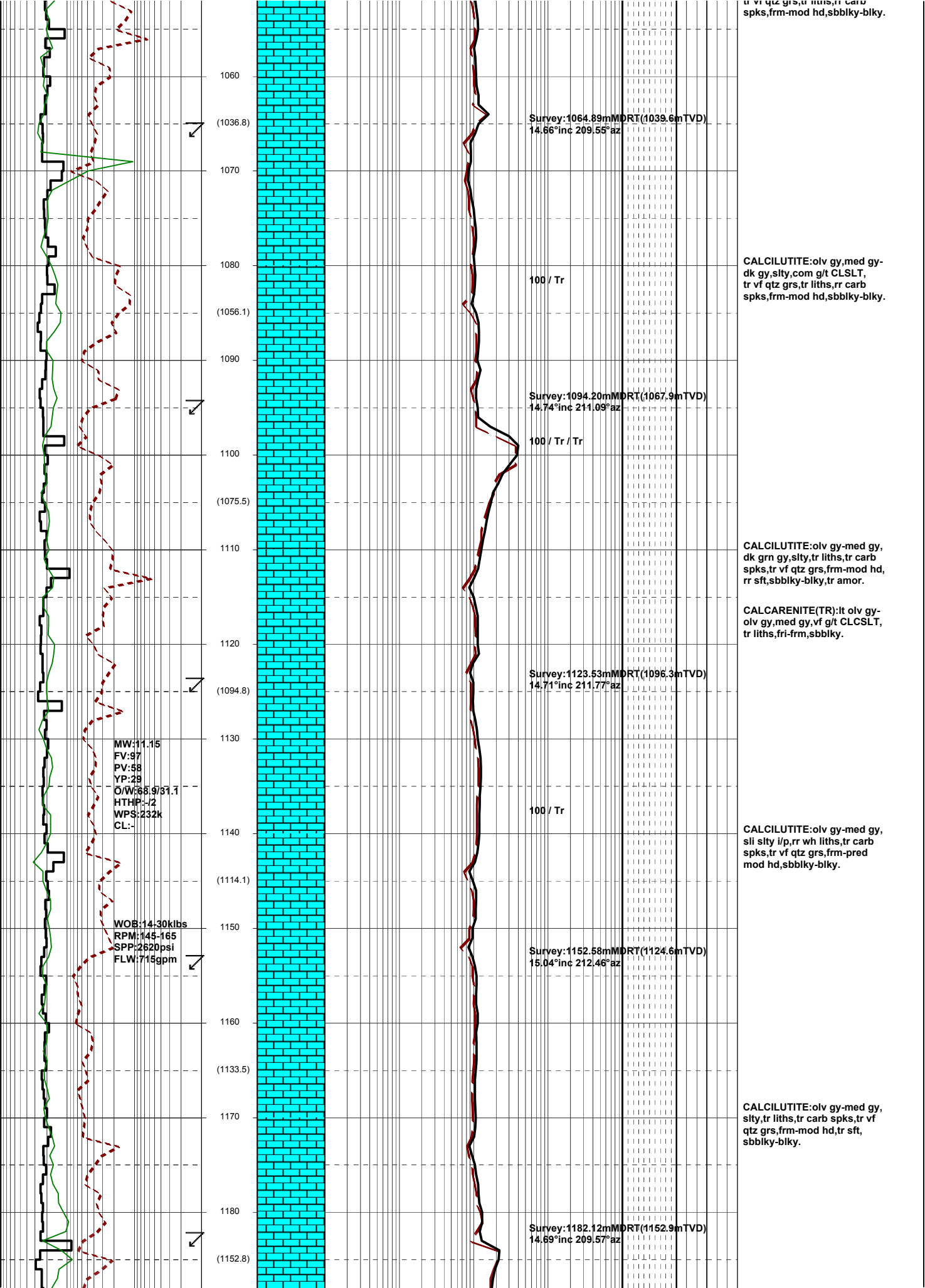
Survey: 772.40mMDRT(756.9mTVD)
14.98°inc 208.55°az

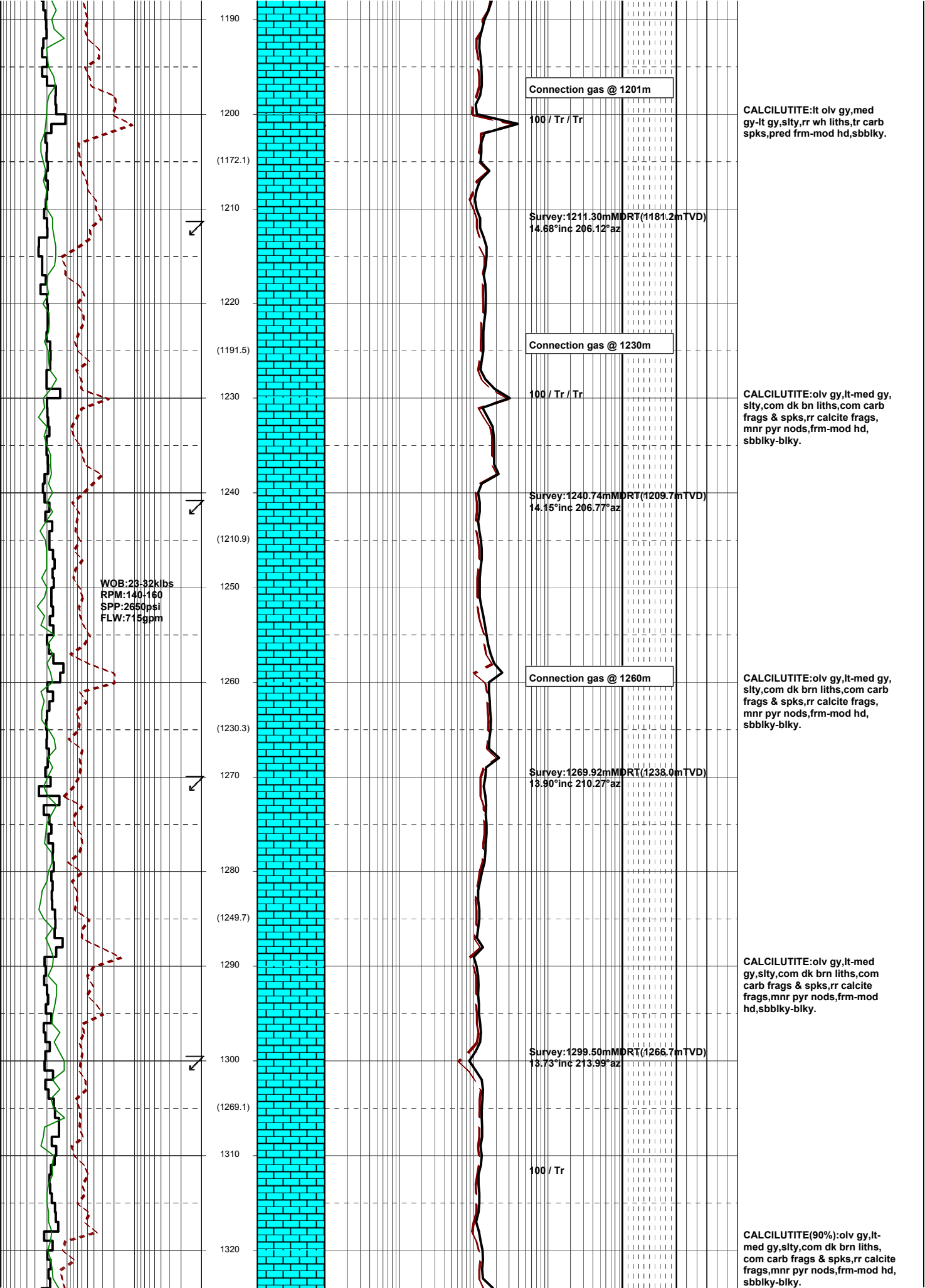
CALCARENITE(60%):oh

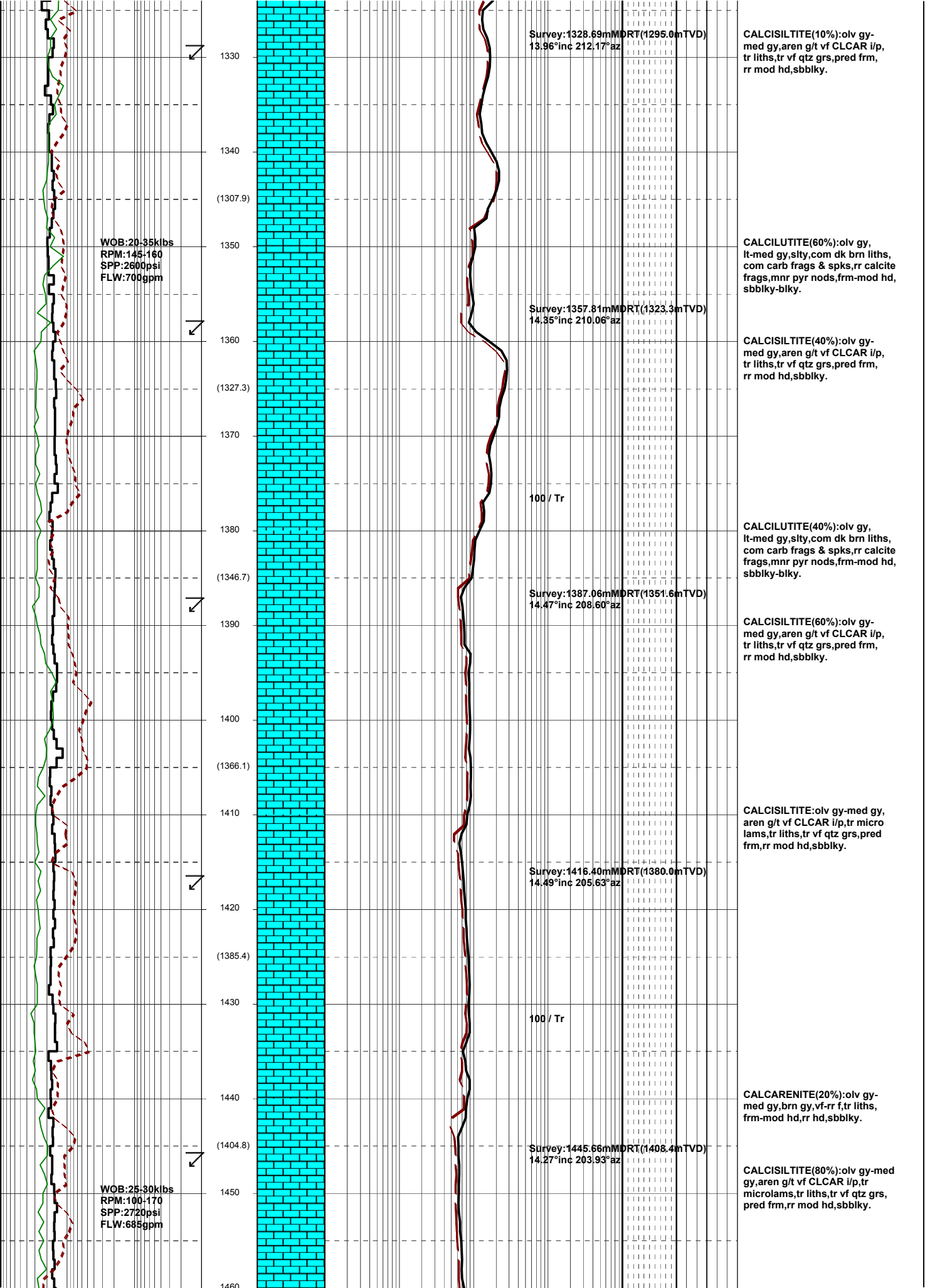
780











MW:11.80
FV:104
PV:57
YP:35
O/W:68.4/31.6
HTHP:-
WPS:240k
CL:186967

WOB:30-35klbs
RPM:140-150
SPP:2850psi
FLW:695gpm

(1424.2)
1470
1480
(1443.5)
1490
1500
(1462.9)
1510
1520
(1482.3)
1530
1540
(1501.6)
1550
1560
(1521)
1570
1580
(1540.4)
1590

Survey:1474.99mMDRT(1436.8mTVD)
14.64°inc 207.57°az

Survey:1504.27mMDRT(1465.1mTVD)
14.41°inc 209.48°az

Survey:1533.67mMDRT(1493.6mTVD)
14.42°inc 207.32°az

Survey:1562.71mMDRT(1521.7mTVD)
14.32°inc 206.77°az

Survey:1592.18mMDRT(1550.3mTVD)
14.27°inc 205.46°az

100 / Tr

100 / Tr

CALCARENITE(30%):olv gy-med gy,brn gy,vf-rr f,tr liths, frm-mod hd,rr hd,sbbiky.

CALCISILTITE(70%):olv gy-med gy,aren g/t vf CLCAR i/p,tr microlams,tr liths,tr vf qtz grs, pred frm,rr mod hd,sbbiky.

CALCARENITE(10%):olv gy-med gy,brn gy,vf-rr f,tr liths, frm-mod hd,rr hd,sbbiky.

CALCISILTITE(90%):olv gy-med gy,aren g/t vf CLCAR i/p,tr microlams,tr liths,tr vf qtz grs, pred frm,rr mod hd,sbbiky.

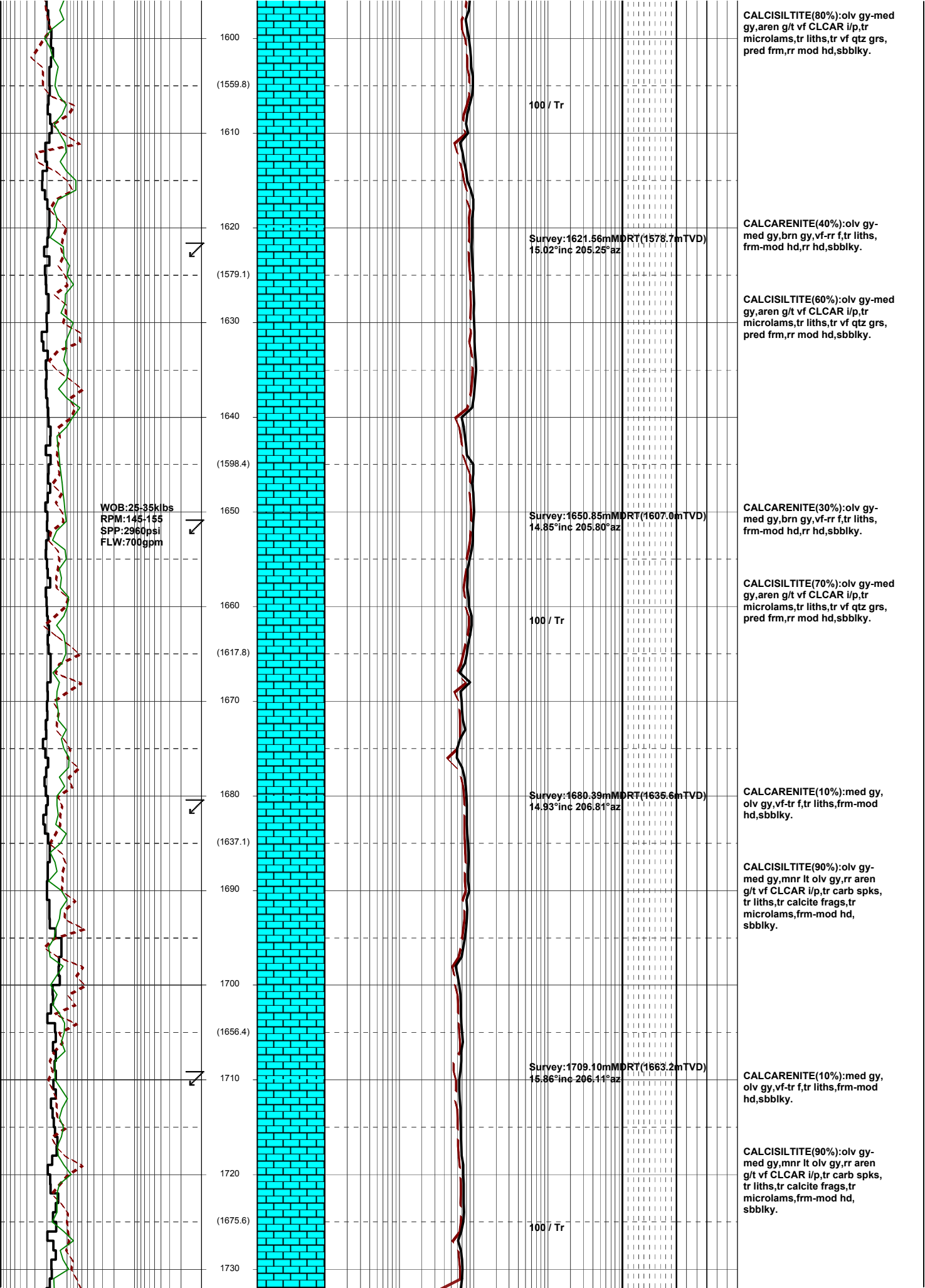
CALCARENITE(10%):olv gy-med gy,brn gy,vf-rr f,tr liths, frm-mod hd,rr hd,sbbiky.

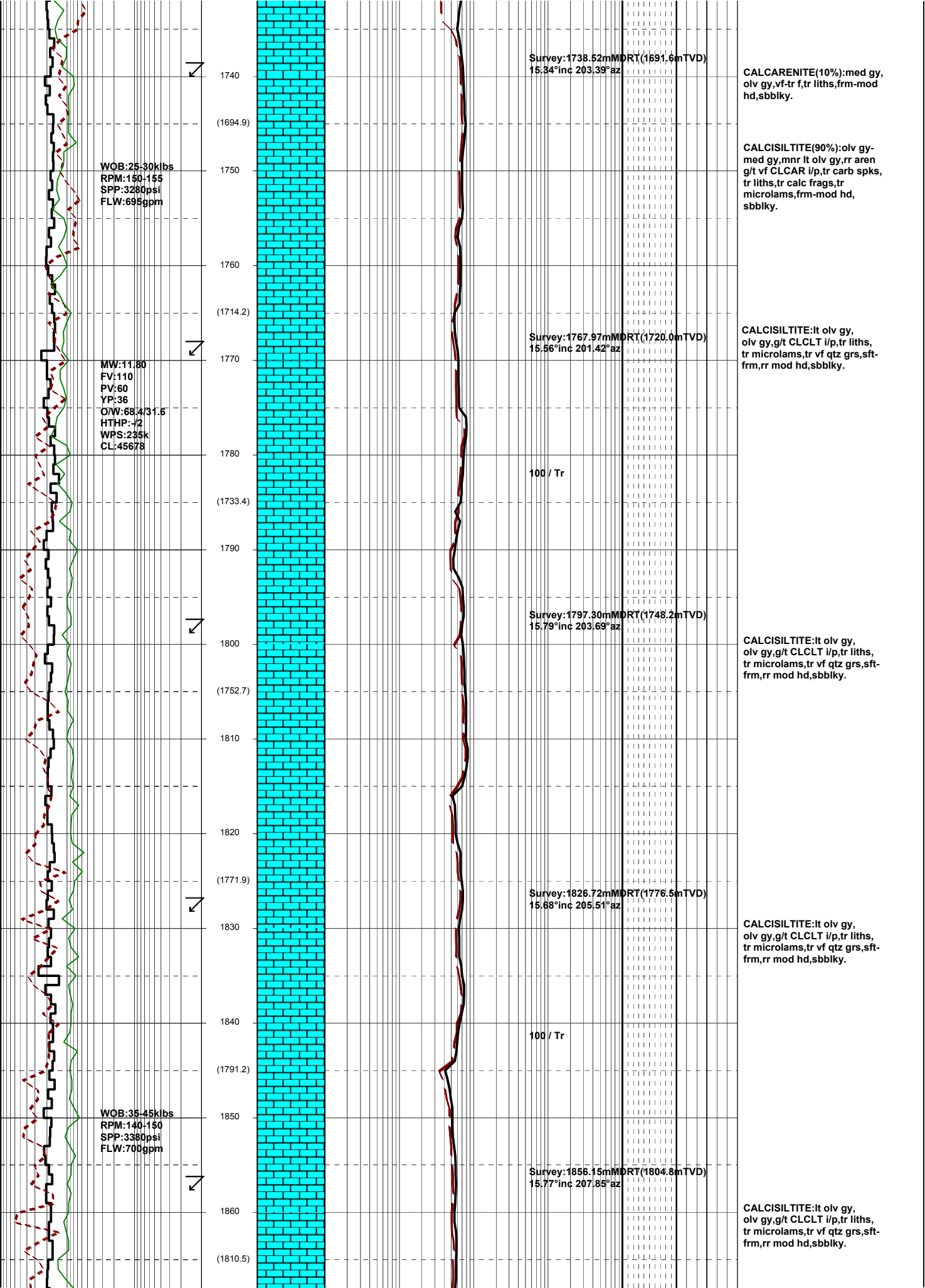
CALCISILTITE(90%):olv gy-med gy,aren g/t vf CLCAR i/p,tr microlams,tr liths,tr vf qtz grs, pred frm,rr mod hd,sbbiky.

CALCARENITE(10%):olv gy-med gy,brn gy,vf-rr f,tr liths, frm-mod hd,rr hd,sbbiky.

CALCISILTITE(90%):olv gy-med gy,aren g/t vf CLCAR i/p,tr microlams,tr liths,tr vf qtz grs, pred frm,rr mod hd,sbbiky.

CALCARENITE(20%):olv gy-med gy,brn gy,vf-rr f,tr liths, frm-mod hd,rr hd,sbbiky.





WOB:25-30klbs
RPM:150-155
SPP:3280psi
FLW:695gpm

MW:11.80
FV:110
PV:60
YP:36
O/W:68.4/31.5
HTHP:-/2
WPS:235k
CL:45678

WOB:35-45klbs
RPM:140-150
SPP:3380psi
FLW:700gpm

Survey:1738.52mMDRT(1691.6mTVD)
15.34°inc 203.39°az

Survey:1767.97mMDRT(1720.0mTVD)
15.56°inc 201.42°az

Survey:1797.30mMDRT(1748.2mTVD)
15.79°inc 203.69°az

Survey:1826.72mMDRT(1776.5mTVD)
15.68°inc 205.51°az

Survey:1856.15mMDRT(1804.8mTVD)
15.77°inc 207.85°az

100 / Tr

100 / Tr

CALCARENITE(10%):med gy,
olv gy,vf-tr f,tr liths,frm-mod
hd,sbbkly.

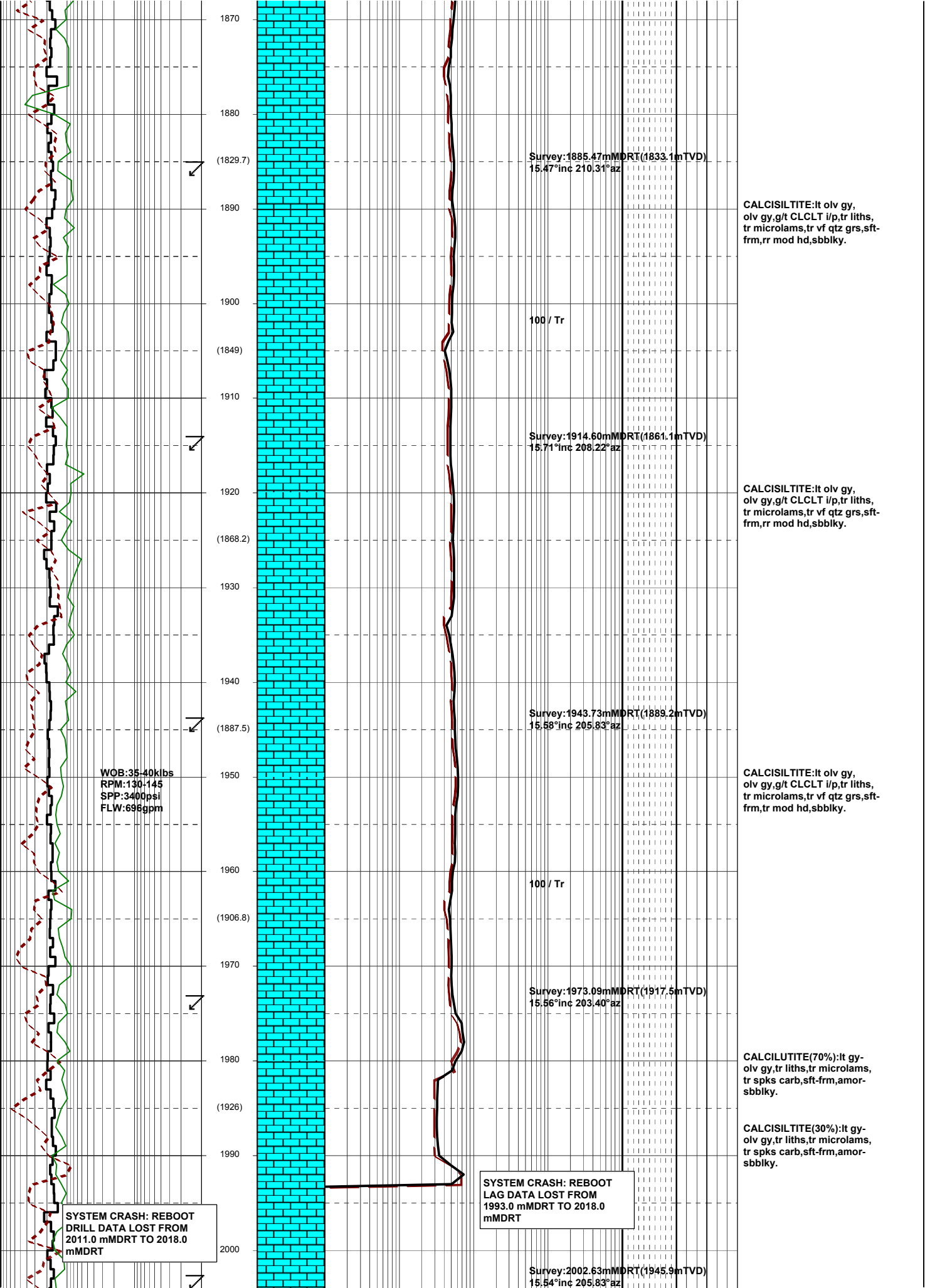
CALCISILTITE(90%):olv gy,
med gy,mnr lt olv gy,rr aren
g/t vf CLCAR i/p,tr carb spks,
tr liths,tr calc frags,tr
microlams,frm-mod hd,
sbbkly.

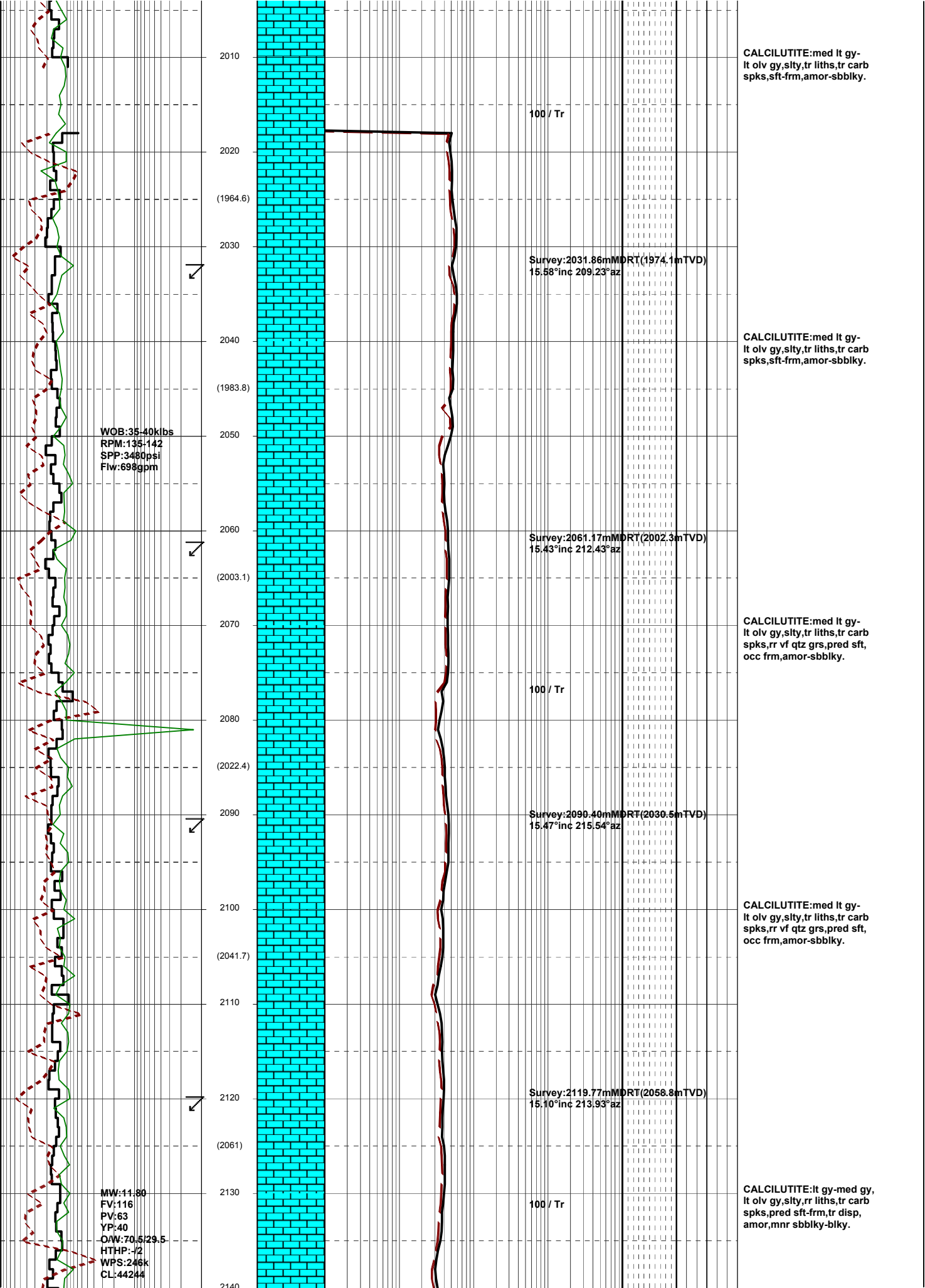
CALCISILTITE:lt olv gy,
olv gy,g/t CLCLT i/p,tr liths,
tr microlams,tr vf qtz grs,sft-
frm,rr mod hd,sbbkly.

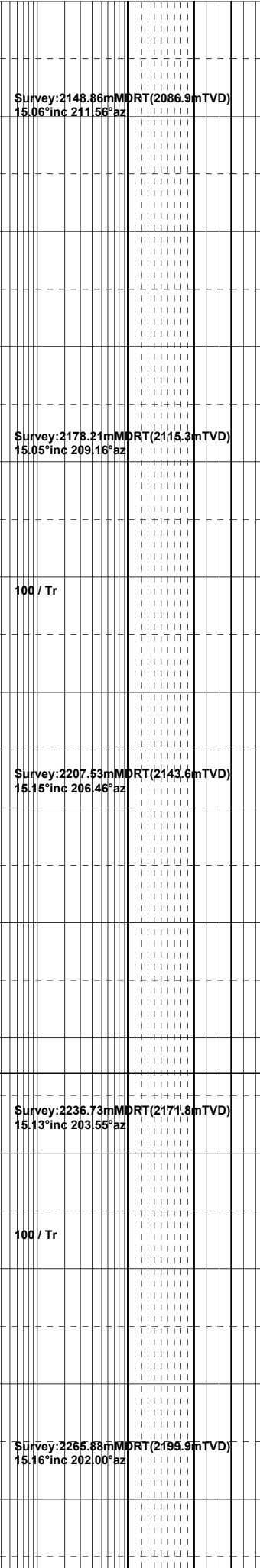
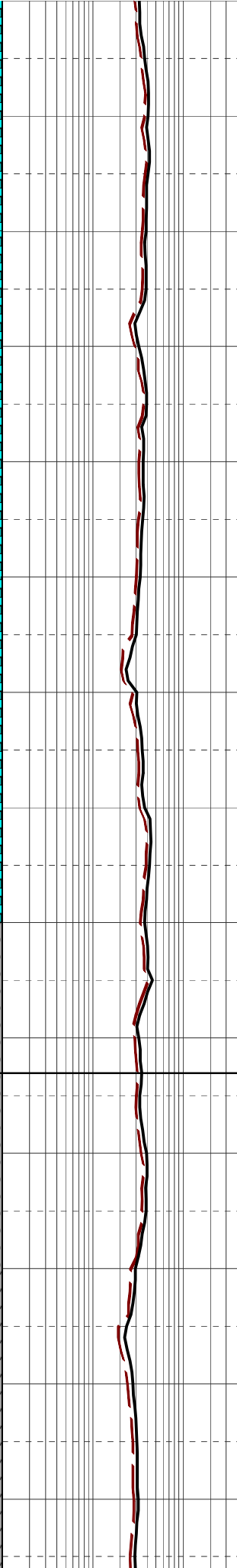
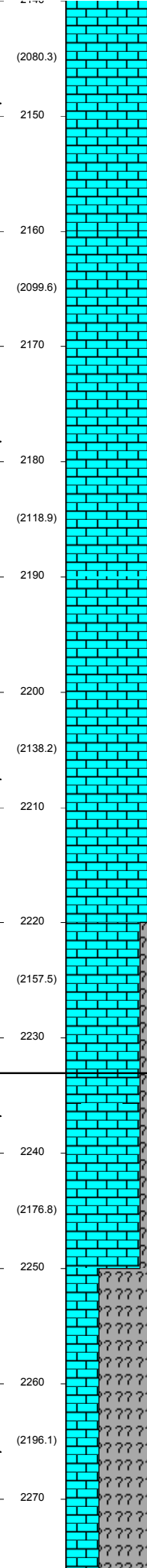
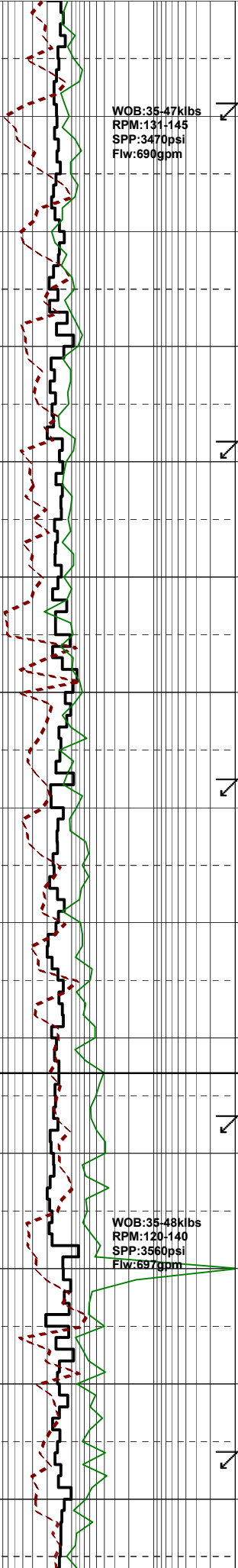
CALCISILTITE:lt olv gy,
olv gy,g/t CLCLT i/p,tr liths,
tr microlams,tr vf qtz grs,sft-
frm,rr mod hd,sbbkly.

CALCISILTITE:lt olv gy,
olv gy,g/t CLCLT i/p,tr liths,
tr microlams,tr vf qtz grs,sft-
frm,rr mod hd,sbbkly.

CALCISILTITE:lt olv gy,
olv gy,g/t CLCLT i/p,tr liths,
tr microlams,tr vf qtz grs,sft-
frm,rr mod hd,sbbkly.







CALCILUTITE: It gy-med gy, slty, tr liths, tr vf qtz grs, tr carb spks, sft, rr frm, amor-sbbkly.

CALCILUTITE: It olv gy-med gy, slty, tr liths, tr carb spks, sft, amor-sbbkly.

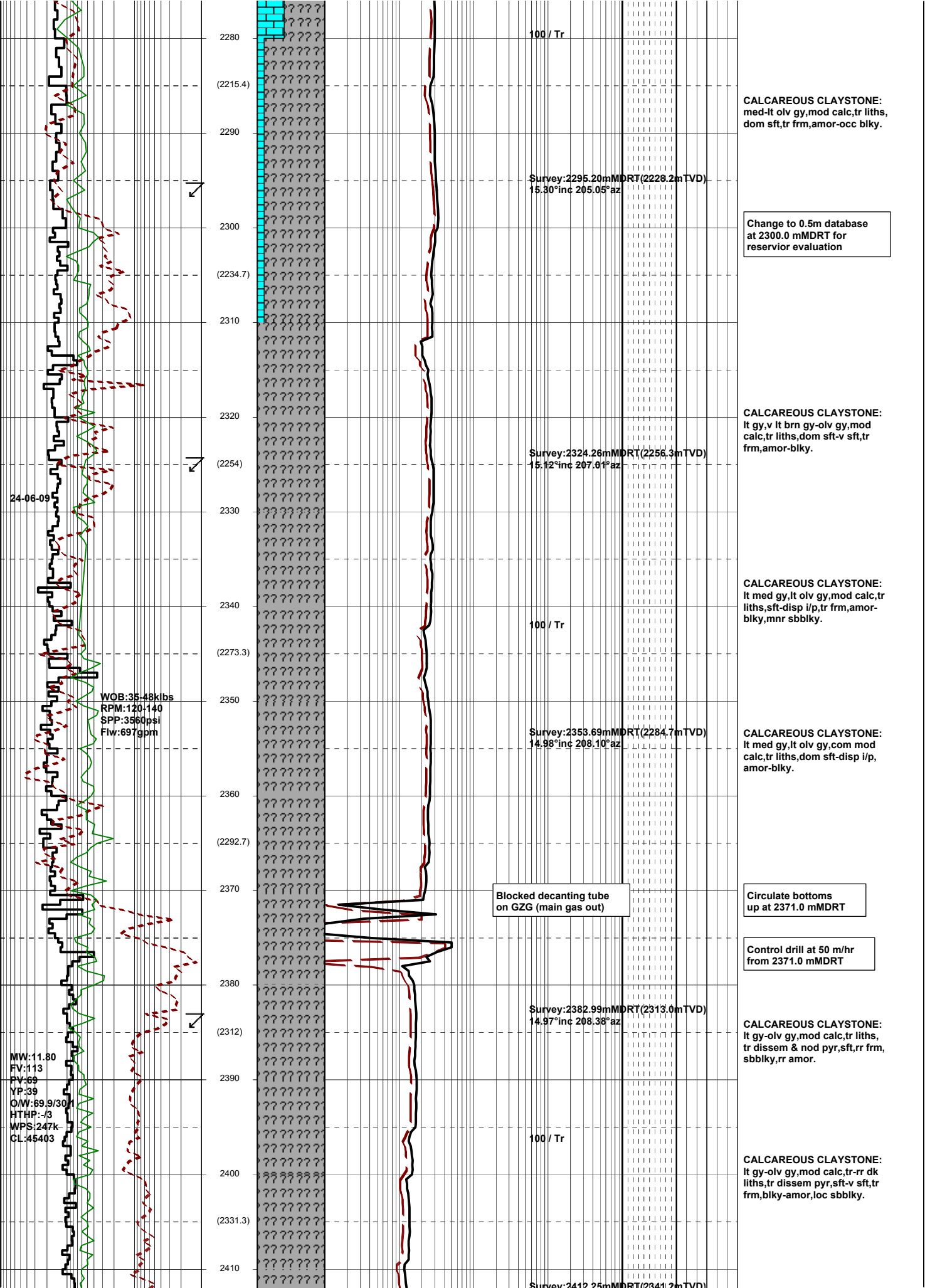
CALCILUTITE: It olv gy-med gy, loc slty, tr pa org liths, tr carb spks, sft, frm l/p, amor-sbbkly.

TOP LAKES ENTRANCE:
2233.0m MDRT, 2168.2m TVDRT,
-2127.2 m TVDSS.

CALCILUTITE: It olv gy-med gy, rr-tr liths, tr carb spks, sft, frm l/p, blkly-sbbkly, amor.

CALCAREOUS CLAYSTONE:
It med gy, it olv gy, mod calc, tr liths, dom sft-v sft, tr frm, amor-blky, occ sbbkly.

CALCILUTITE: It olv gy-med gy, rr liths, tr vf carb spks, sft-frm, blkly-amor.



2280
(2215.4)
2290
2300
(2234.7)
2310
2320
(2254)
2330
2340
(2273.3)
2350
2360
(2292.7)
2370
2380
(2312)
2390
2400
(2331.3)
2410

100 / Tr

Survey: 2295.20mMDRT (2228.2mTVD)
15.30° inc 205.05° az

Survey: 2324.26mMDRT (2256.3mTVD)
15.12° inc 207.01° az

100 / Tr

Survey: 2353.69mMDRT (2284.7mTVD)
14.98° inc 208.10° az

Blocked decanting tube
on GZG (main gas out)

Survey: 2382.99mMDRT (2313.0mTVD)
14.97° inc 208.38° az

100 / Tr

Survey: 2412.25mMDRT (2341.2mTVD)

CALCAREOUS CLAYSTONE:
med-lt olv gy, mod calc, tr liths,
dom sft, tr frm, amor-occ blkly.

Change to 0.5m database
at 2300.0 mMDRT for
reservoir evaluation

CALCAREOUS CLAYSTONE:
lt med gy, v lt brn gy-olv gy, mod
calc, tr liths, dom sft-v sft, tr
frm, amor-blkly.

CALCAREOUS CLAYSTONE:
lt med gy, lt olv gy, mod calc, tr
liths, sft-disp i/p, tr frm, amor-
blkly, mnr sbbkly.

CALCAREOUS CLAYSTONE:
lt med gy, lt olv gy, com mod
calc, tr liths, dom sft-disp i/p,
amor-blkly.

Circulate bottoms
up at 2371.0 mMDRT

Control drill at 50 m/hr
from 2371.0 mMDRT

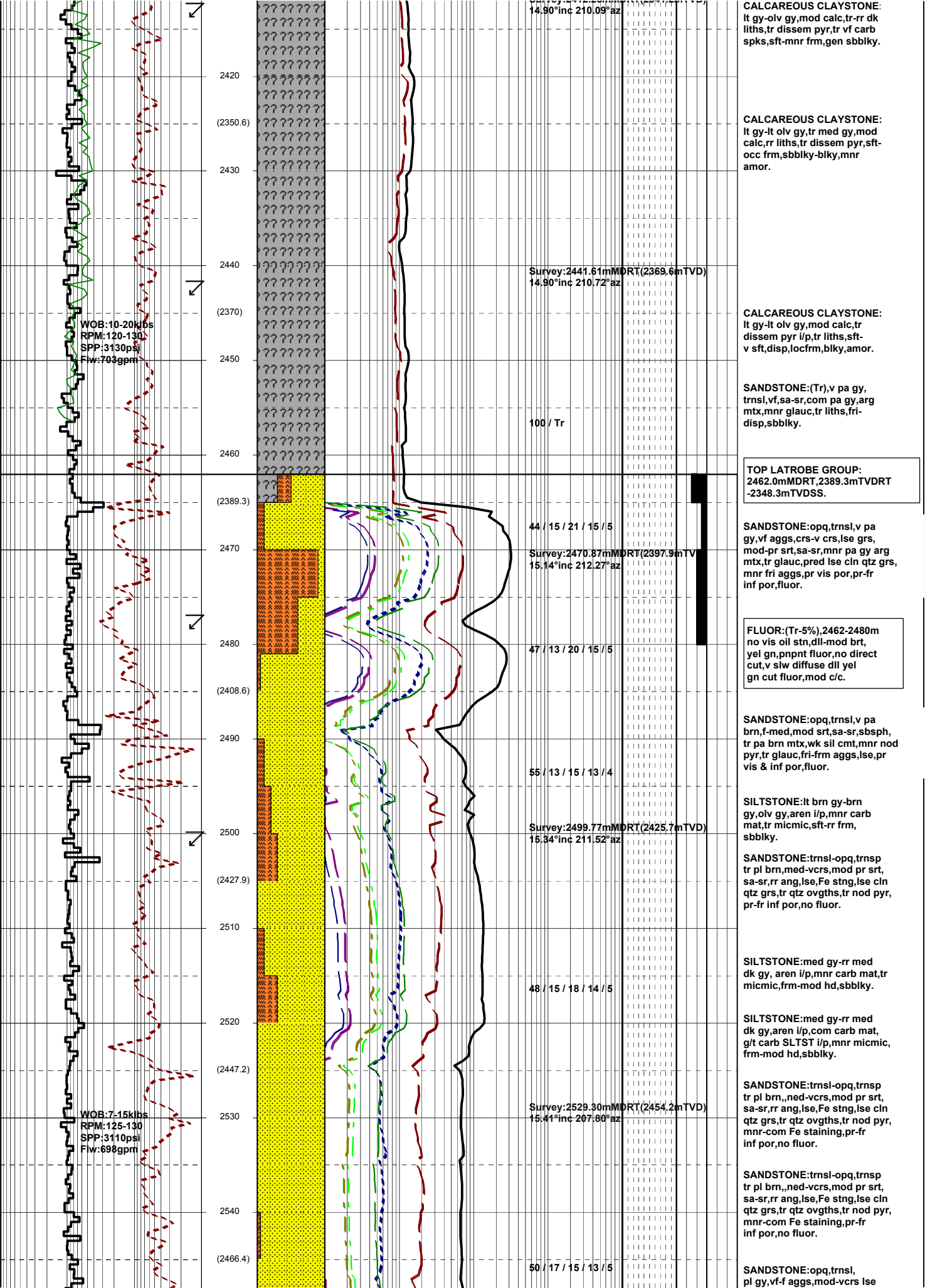
CALCAREOUS CLAYSTONE:
lt gy-olv gy, mod calc, tr liths,
tr dissem & nod pyr, sft, tr frm,
sbbkly, rr amor.

CALCAREOUS CLAYSTONE:
lt gy-olv gy, mod calc, tr-rr dk
liths, tr dissem pyr, sft-v sft, tr
frm, blkly-amor, loc sbbkly.

24-06-09

WOB: 35-48klbs
RPM: 120-140
SPP: 3560psi
Flw: 697gpm

MW: 11.80
FV: 113
PV: 69
YP: 39
O/W: 69.9/30.1
HTHP: -/3
WPS: 247k
CL: 45403



CALCAREOUS CLAYSTONE:
lt gy-olv gy, mod calc, tr-rr dk liths, tr disse pyr, tr vf carb spks, sft-mnr frm, gen sbbkly.

CALCAREOUS CLAYSTONE:
lt gy-olv gy, tr med gy, mod calc, rr liths, tr disse pyr, sft-occ frm, sbbkly-blky, mnr amor.

CALCAREOUS CLAYSTONE:
lt gy-olv olv gy, mod calc, tr disse pyr i/p, tr liths, sft-v sft, disp, locfrm, blky, amor.

SANDSTONE: (Tr), v pa gy, trnsi, vf, sa-sr, com pa gy, arg mtz, mnr glauc, tr liths, fri-disp, sbbkly.

TOP LATROBE GROUP:
2462.0mMDRT, 2389.3mTVDRT
-2348.3mTVDSS.

SANDSTONE: opq, trnsi, v pa gy, vf aggs, crs-v crs, lse grs, mod-pr srt, sa-sr, mnr pa gy arg mtz, tr glauc, pred lse cln qtz grs, mnr fri aggs, pr vis por, pr-fr inf por, fluor.

FLUOR: (Tr-5%), 2462-2480m no vis oil stn, dll-mod brt, yel gn, npnt fluor, no direct cut, v slw diffuse dll yel gn cut fluor, mod c/c.

SANDSTONE: opq, trnsi, v pa brn, f-med, mod srt, sa-sr, sbsph, tr pa brn mtz, wk sil cmt, mnr nod pyr, tr glauc, fri-frm aggs, lse, pr vis & inf por, fluor.

SILTSTONE: lt brn gy-brn gy, olv gy, aren i/p, mnr carb mat, tr micmic, sft-rr frm, sbbkly.

SANDSTONE: trnsi-opq, trnsip tr pl brn, med-vcrs, mod pr srt, sa-sr, rr ang, lse, Fe stng, lse cln qtz grs, tr qtz ovghs, tr nod pyr, pr-fr inf por, no fluor.

SILTSTONE: med gy-rr med dk gy, aren i/p, mnr carb mat, tr micmic, frm-mod hd, sbbkly.

SILTSTONE: med gy-rr med dk gy, aren i/p, com carb mat, g/t carb SLTST i/p, mnr micmic, frm-mod hd, sbbkly.

SANDSTONE: trnsi-opq, trnsip tr pl brn, ned-vcrs, mod pr srt, sa-sr, rr ang, lse, Fe stng, lse cln qtz grs, tr qtz ovghs, tr nod pyr, mnr-com Fe staining, pr-fr inf por, no fluor.

SANDSTONE: trnsi-opq, trnsip tr pl brn, ned-vcrs, mod pr srt, sa-sr, rr ang, lse, Fe stng, lse cln qtz grs, tr qtz ovghs, tr nod pyr, mnr-com Fe staining, pr-fr inf por, no fluor.

SANDSTONE: opq, trnsi, pl gy, vf aggs, mod-vcrs lse

WOB: 10-20kips
RPM: 120-130
SPP: 3130psi
Fw: 703gpm

WOB: 7-15kips
RPM: 125-130
SPP: 3110psi
Fw: 698gpm

Survey: 2441.61mMDRT (2369.6mTVD)
14.90°inc 210.09°az

Survey: 2470.87mMDRT (2397.9mTVD)
15.14°inc 212.27°az

Survey: 2499.77mMDRT (2425.7mTVD)
15.34°inc 211.52°az

Survey: 2529.30mMDRT (2454.2mTVD)
15.41°inc 207.80°az

50 / 17 / 15 / 13 / 5

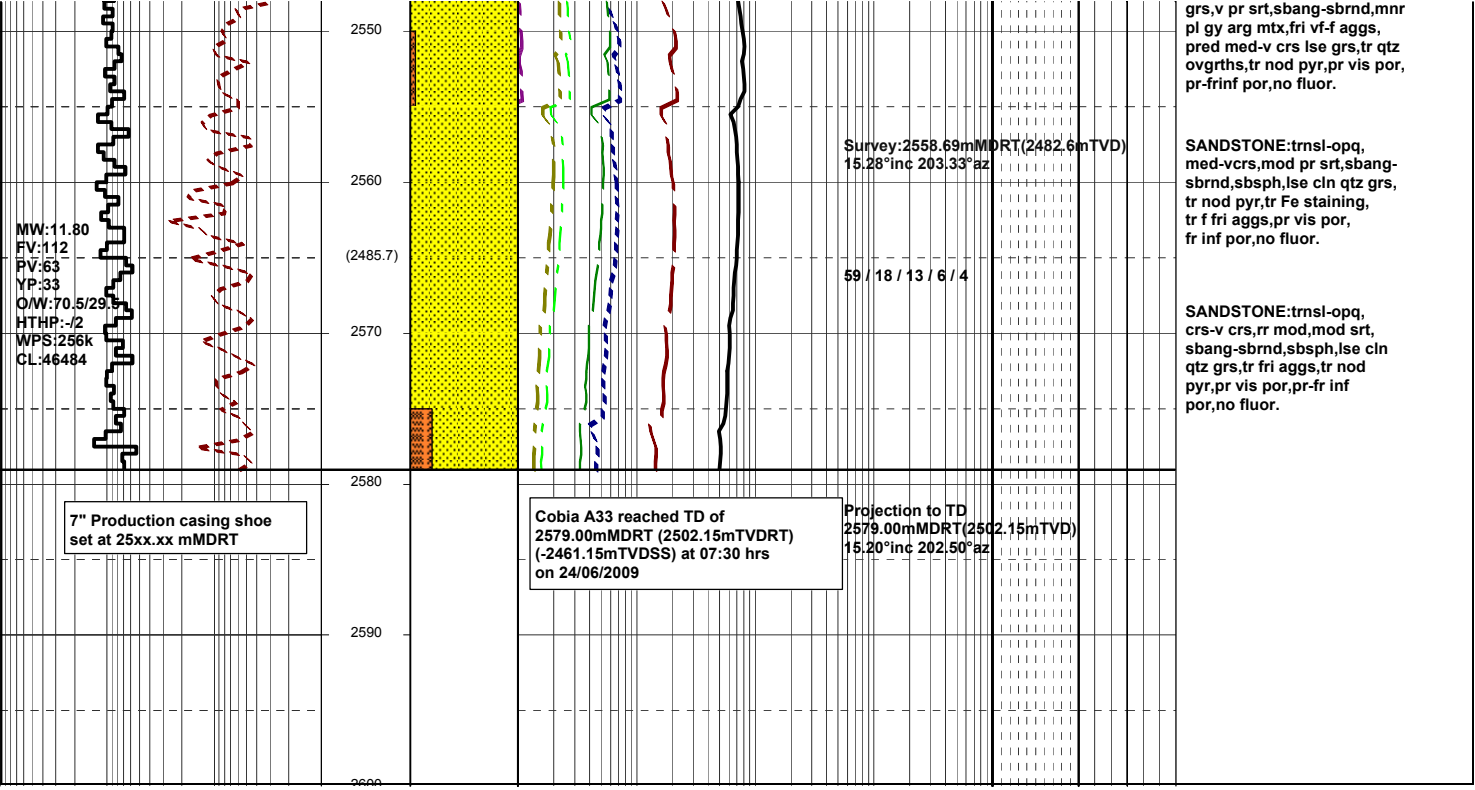
44 / 15 / 21 / 15 / 5

47 / 13 / 20 / 15 / 5

55 / 13 / 15 / 13 / 4

48 / 15 / 18 / 14 / 5

2420
(2350.6)
2430
2440
(2370)
2450
2460
(2389.3)
2470
2480
(2408.6)
2490
2500
(2427.9)
2510
2520
(2447.2)
2530
2540
(2466.4)



MW:11.80
 FV:112
 PV:63
 YP:33
 O/W:70.5/29.5
 HTHP:-/2
 WPS:256k
 CL:46484

2550
 2560
 (2485.7)
 2570
 2580
 2590
 2600

Survey:2558.69mMDRT(2482.6mTVD)
 15.28°inc 203.33°az

59 / 18 / 13 / 6 / 4

7" Production casing shoe
 set at 25xx.xx mMDRT

Cobia A33 reached TD of
 2579.00mMDRT (2502.15mTVDRT)
 (-2461.15mTVDSS) at 07:30 hrs
 on 24/06/2009

Projection to TD
 2579.00mMDRT(2502.15mTVD)
 15.20°inc 202.50°az

grs,v pr srt,sbang-sbrnd,mnr
 pl gy arg mtx,fri vf-f aggs,
 prod med-v crs lse grs,tr qtz
 ovgrths,tr nod pyr,pr vis por,
 pr-frinf por,no fluor.

SANDSTONE:trnsi-opq,
 med-vcrs,mod pr srt,sbang-
 sbrnd,sbsph,lse cln qtz grs,
 tr nod pyr,tr Fe staining,
 tr f fri aggs,pr vis por,
 fr inf por,no fluor.

SANDSTONE:trnsi-opq,
 crs-v crs,rr mod,mod srt,
 sbang-sbrnd,sbsph,lse cln
 qtz grs,tr fri aggs,tr nod
 pyr,pr vis por,pr-fr inf
 por,no fluor.