



MASTERLOG

WKF W-31A



GENERAL	SURFACE POSITION	HOLE / CASING INFO	DATE / DEPTH	ENGINEERS
Country : AUSTRALIA	Longitude : 148 06 19.408E	8-1/2" Hole to 3450.0m MDRT	Spud Date : 21-06-2006	Steve Oades
Permit : VIC L8	Latitude : 38 35 34.800S		Total Depth Date : 03-07-2006	Mark Smith
Field : Kingfish	MGA Co-ord X : 596265.03mE	13-3/8" Surface Csg 1300.0m MDRT	Total Depth : 3450.0m MDRT	Noel Elliott
Basin : GIPPSLAND	MGA Co-ord Y : 5727807.76mN	7" Production Csg at	True Vertical Depth : 2373.2m TVDRT	Nick Abolins
Well Type : DEVELOPMENT	RT to MSL : 33.43m		Log Scale : 1/ 500	
Rig Name : NABORS 453	RT to Sea Bed : 109.56m			

ABBREVIATIONS	LITHOLOGY LEGEND	ENGINEERING LEGEND
MW Mud Weight FV Funnel Viscosity PV Plastic Viscosity YP Yield Point Gel Gel Strength WL Water Loss KCl Potassium Chloride Cl 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	CASING SHOE LINER HANGER BIT CHANGE DEVI. SURVEY SWC UNRECOV SIDEWALL CORE CORE
	CLAYSTONE SILTSTONE SST: F - V FINE SST: MEDIUM SST: COARSE SHALE	WIRELINE LOGS MDT POINTS: PRESSURE ONLY SAMPLE SEAL FAILURE TIGHT
	MARL LIMESTONE DOLOMITE CHERT CONGLOMERATE COAL	
	BRYOZOA RADIOLARITES ECHINOIDES CORALS FORAMINIFERA LITHIC FRAGMENT	
	CARB FRAGMENT QUARTZITE INTRUSIVES GLAUCONITE PYRITE CEMENT	

ROP (m/hr)	DEPTH (m) (TVD)	CUTTINGS	RESERVAL GAS DATA	CUT FLUOR	DIRECT FLR	LITHOLOGY DESCRIPTIONS
500 50 5 .5	SLIDING BAR	LITHOLOGY	C1 --- C2 - - - - C3 --- iC4 - - - - nC4 - - - - iC5 - - - - nC5 - - - - Total Gas in Units Chromatograph in PPM	5K 100K 1000K	FOUR THREE TWO ONE	and REMARKS
WOB (tons) 50 25 0		%				
MWD Gamma Ray (api) 0 100 200						

SLIDING INDICATED BY VERTICAL BAR IN DEPTH COLUMN.

Tie In Survey: 1300.00m MD (975.11m TVD)
57.11° Inc 269.74° az

BIT #1 8 1/2"
Smith S73HPX
Jets: 5x18, 3x16
In : 1300.0m MDRT
Out : 2794.0m MDRT
Run : 1494.0m
Hrs : 52.7
Cond: 1-3-BT-ST-X-116-CT-HP

PREVIOUS WELL HISTORY
Plugged & Abandoned in June, 2006
13-3/8" Surface Csg 1300.0m MDRT
9-5/8" Production Csg cut and pulled from 1372.0m MDRT
Kick-off plug at 1277.0m MDRT

West Kingfish W-31A kick-off at 19:00 hours on 21-06-2006 from 1300.0m MDRT

Drill with 8% KCl/PPHA/Polymer Glycol-CP mud system.

Drilled to 1367.0 mMDRT (1014.7 mTVDRT)
PIT at 1300.0m MDRT 975.1 mTVDRT
660 psi 9.2 ppg EMW:13.0 ppg

CALCILUTITE: v lt gy-lt gy, slty i/p, tr foss frag, disp, sft, amor.

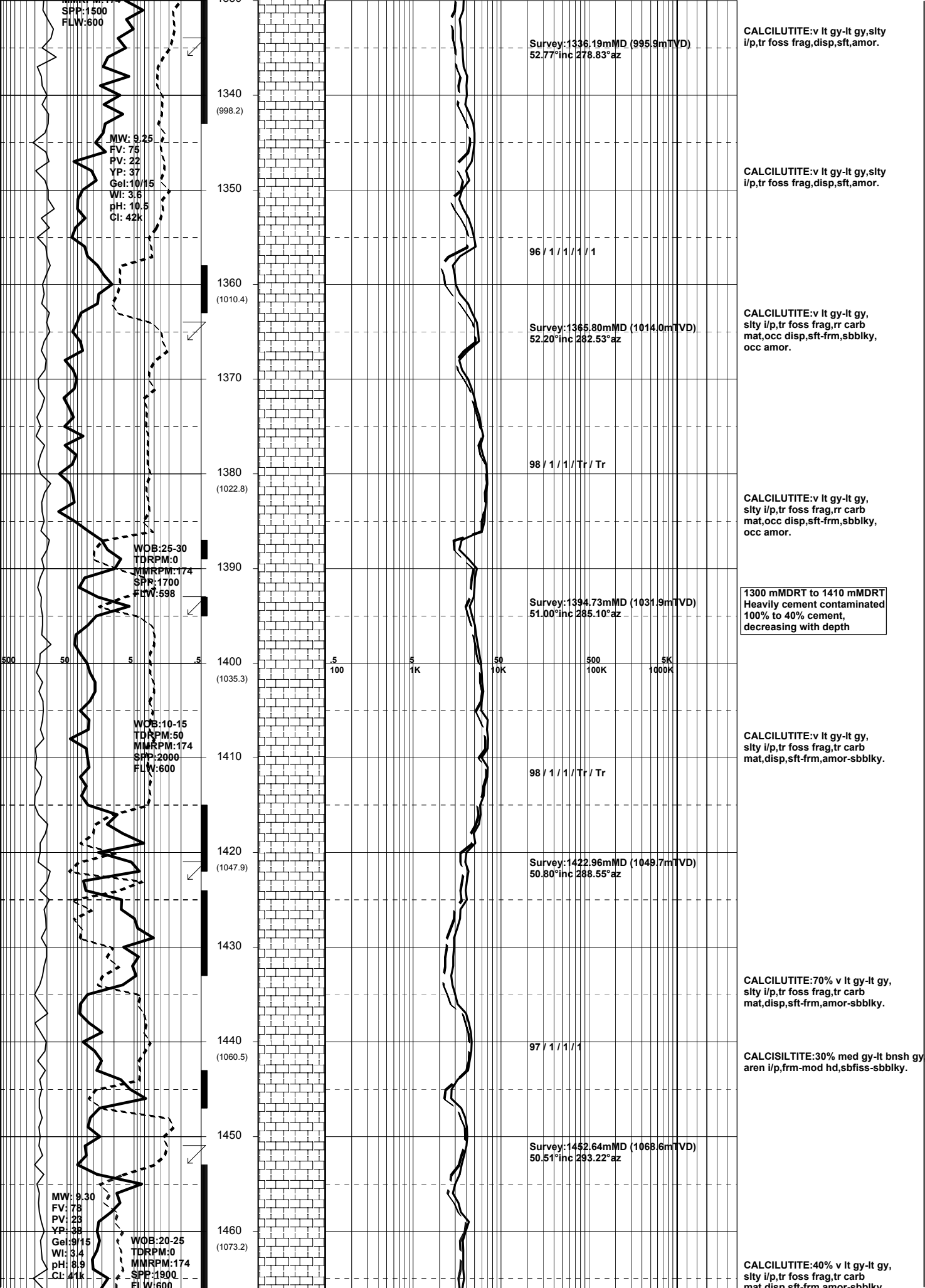
SLIDING INDICATED BY VERTICAL BAR IN DEPTH COLUMN.

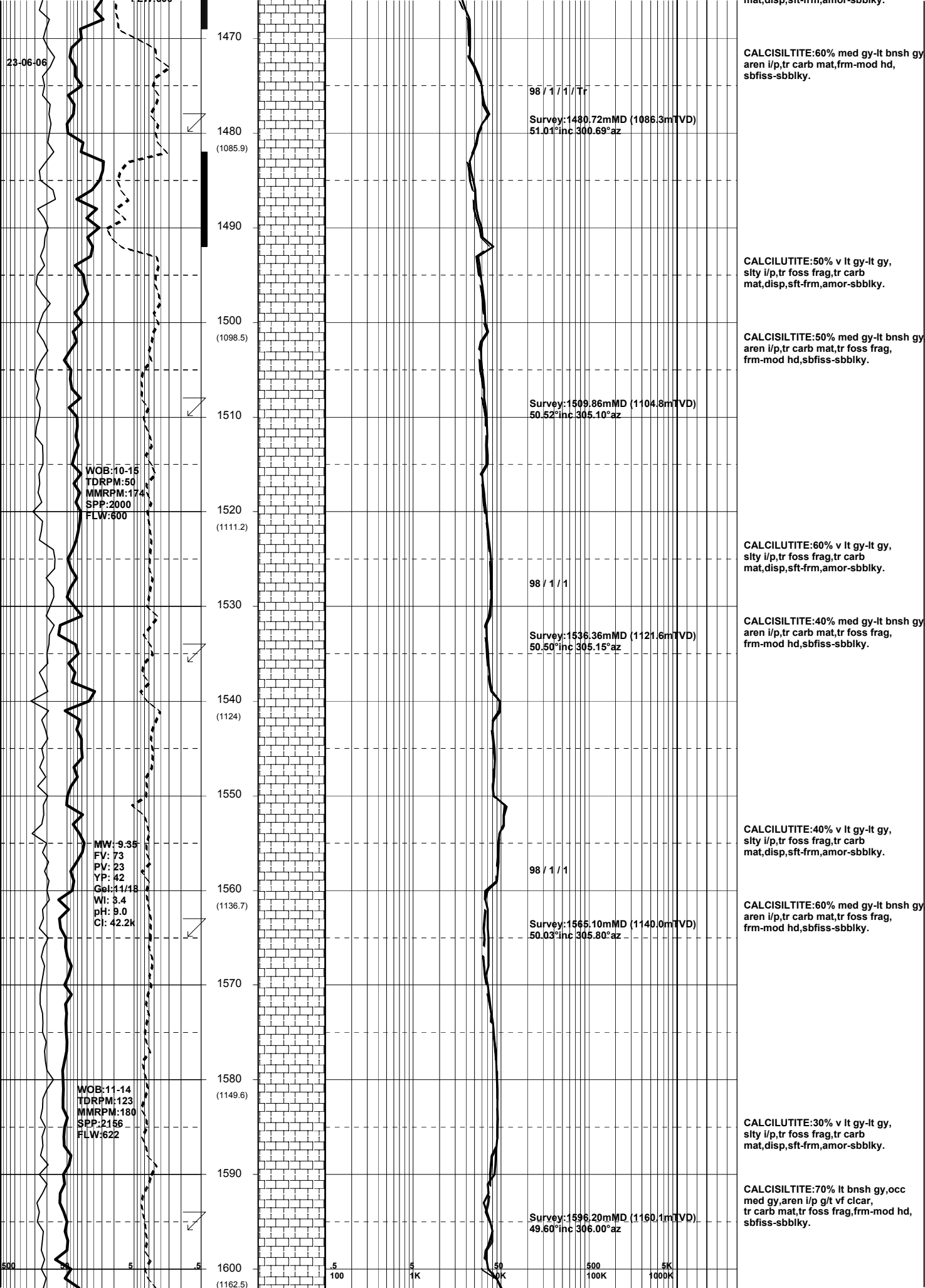
MW: 8.95
FV: 50
PV: 19
YP: 26
Gel: 8/11
WI: 4.2
pH: 9.5
Cl: 40k

WOB: 5.8
TDRPM: 50
MMRPM: 174

96 / 1 / 1 / 1 / 1

22-06-06





1610
1620 (1175.5)
1630
1640 (1188.6)
1650
1660 (1201.6)
1670
1680 (1214.7)
1690
1700 (1227.7)
1710
1720 (1240.7)
1730

WOB:11-14
TDRPM:119
MMRPM:179
SPP:2250
FLW:616

MW: 9.40
FV: 73
PV: 24
YP: 43
Gel: 11/17
Wl: 3.2
pH: 8.9
Cl: 42k

WOB:11-15
TDRPM:119
MMRPM:181
SPP:2241
FLW:625

98 / 1 / 1

Survey:1625.29mMD (1179.0mTVD)
49.39°inc 306.13°az

98 / 1 / 1

Survey:1654.10mMD (1197.8mTVD)
48.92°inc 306.07°az

Survey:1682.18mMD (1215.1mTVD)
49.74°inc 307.10°az

98 / 1 / 1

Survey:1710.86mMD (1234.7mTVD)
49.37°inc 307.23°az

Survey:1738.95mMD (1253.1mTVD)

CALCILUTITE:40% v lt gy-lt gy,
silty i/p, tr foss frag, tr carb
mat, disp, sft frm, amor-sbbkly.

CALCISILTITE:60% lt bnsh gy, occ
med gy, aren i/p g/t vf clcar, tr
carb mat, tr foss frag, frm-mod hd,
sbbkly-sbfiss.

CALCILUTITE:60% v lt gy-lt gy,
silty i/p, tr foss frag, tr carb
mat, disp, sft frm, amor-sbbkly.

CALCISILTITE:40% lt bnsh gy, occ
med gy, aren i/p g/t vf clcar, tr
carb mat, tr foss frag, frm-mod hd,
sbbkly-sbfiss.

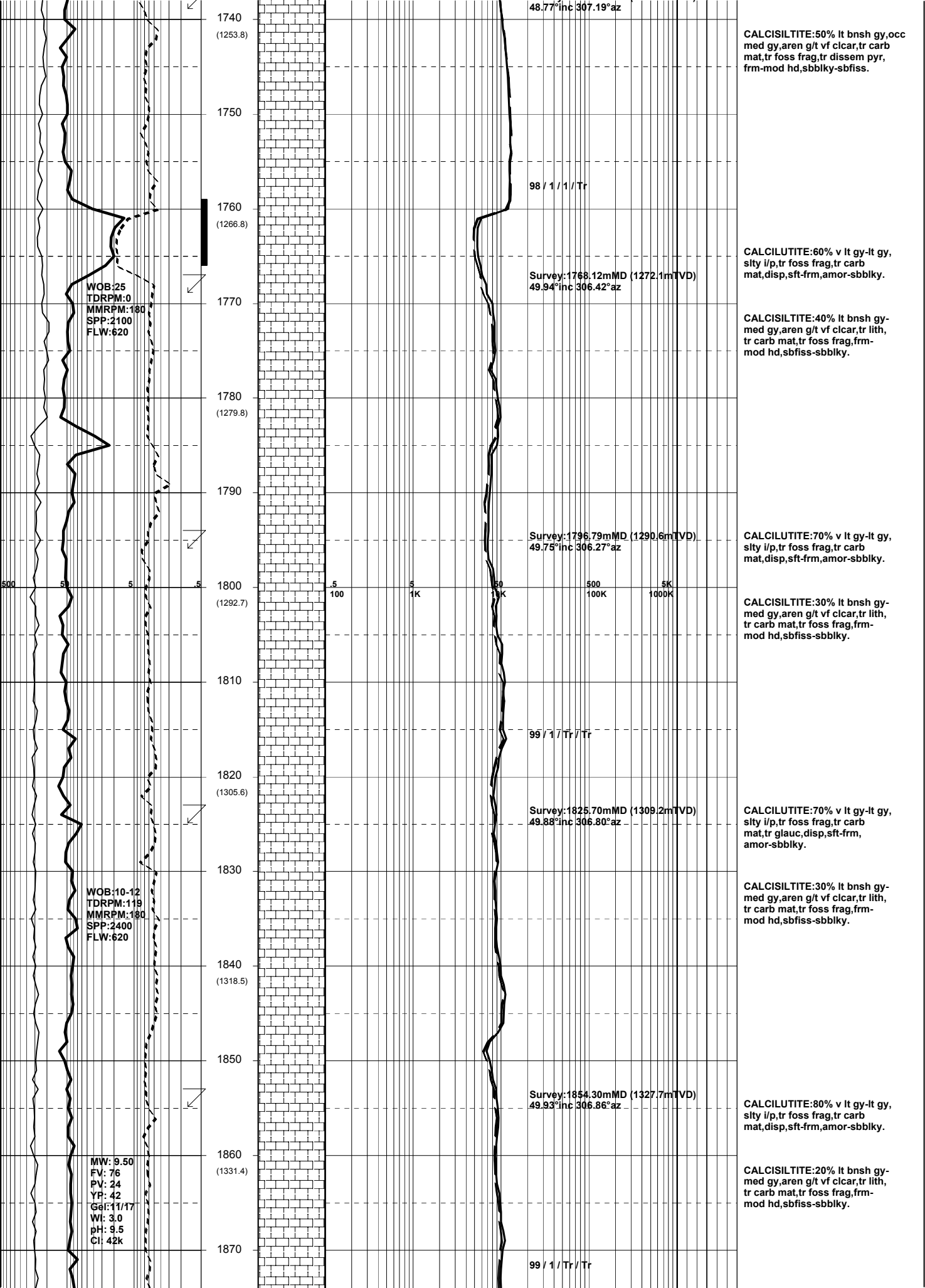
CALCISILTITE:30% lt bnsh gy, occ
med gy, aren g/t vf clcar, tr dissem
pyr, tr carb mat, tr foss frag,
frm-mod hd, sbbkly-sbfiss.

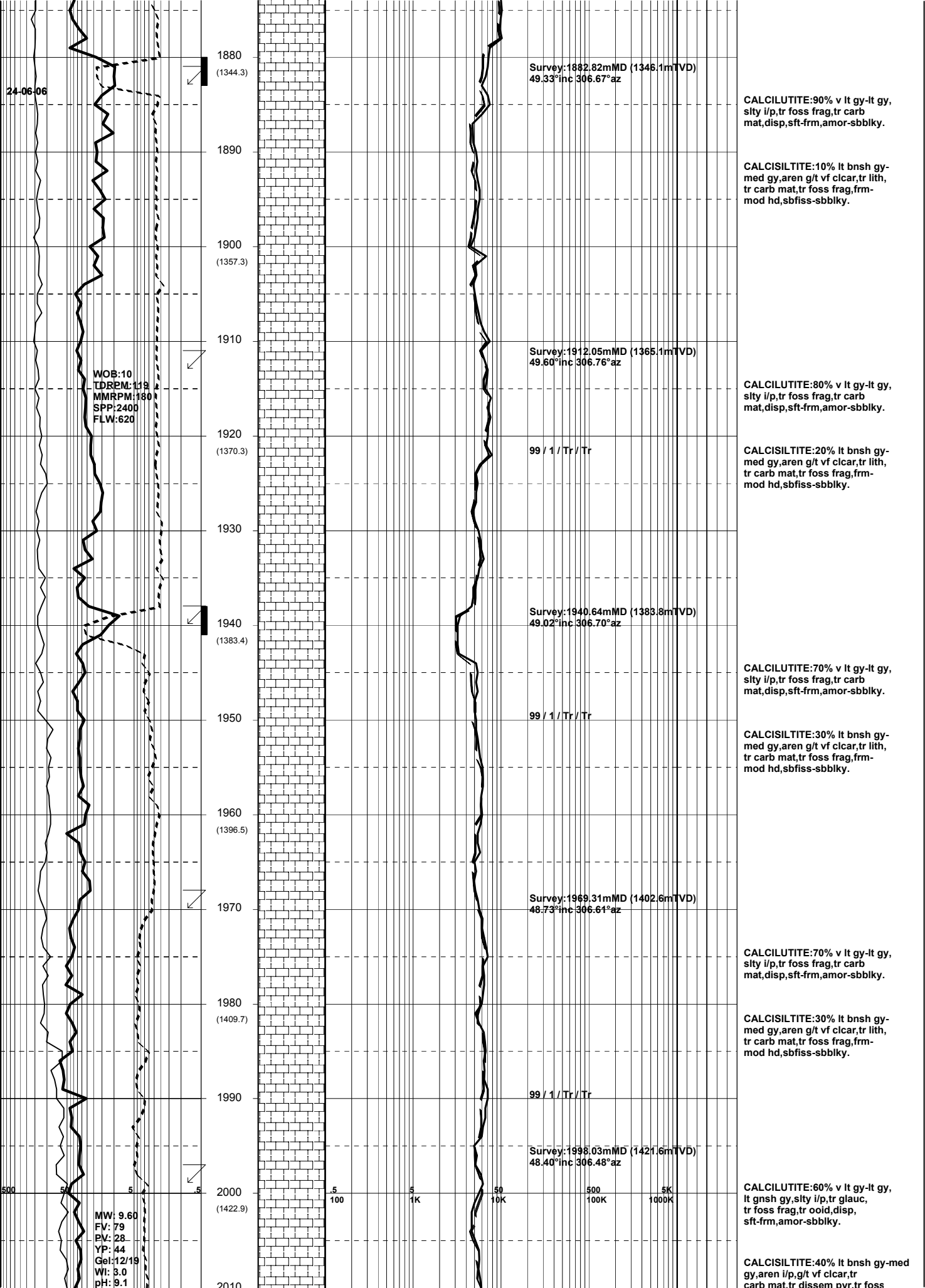
CALCILUTITE:70% v lt gy-lt gy,
silty i/p, tr foss frag, tr carb
mat, disp, sft frm, amor-sbbkly.

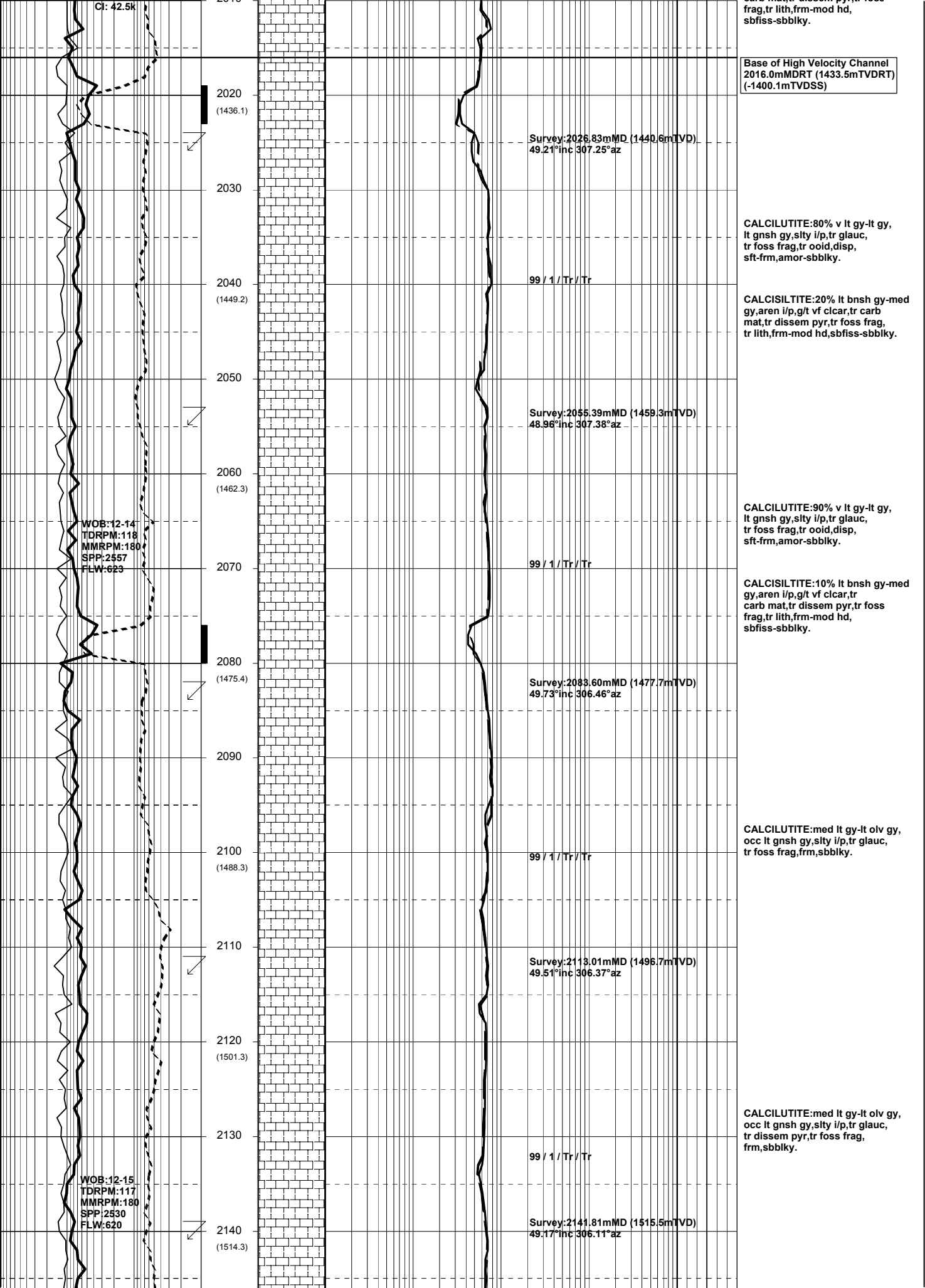
CALCILUTITE:60% v lt gy-lt gy,
silty i/p, tr foss frag, tr carb
mat, disp, sft frm, amor-sbbkly.

CALCISILTITE:40% lt bnsh gy, occ
med gy, aren g/t vf clcar, tr carb
mat, tr foss frag, tr dissem pyr,
frm-mod hd, sbbkly-sbfiss.

CALCILUTITE:50% v lt gy-lt gy,
silty i/p, tr foss frag, tr carb
mat, disp, sft frm, amor-sbbkly.







Base of High Velocity Channel
2016.0mMDRT (1433.5mTVDRT)
(-1400.1mTVDSS)

Survey: 2026.83mMD (1440.6mTVD)
49.21° inc 307.25° az

CALCILUTITE: 80% v lt gy-lt gy,
lt gnsh gy, slty i/p, tr glauc,
tr foss frag, tr ooid, disp,
sft-frm, amor-sbbkly.

CALCISILTITE: 20% lt bnsh gy-med
gy, aren i/p, g/t vf clcar, tr carb
mat, tr dissem pyr, tr foss frag,
tr lith, frm-mod hd, sbfiss-sbbkly.

Survey: 2055.39mMD (1459.3mTVD)
48.96° inc 307.38° az

CALCILUTITE: 90% v lt gy-lt gy,
lt gnsh gy, slty i/p, tr glauc,
tr foss frag, tr ooid, disp,
sft-frm, amor-sbbkly.

CALCISILTITE: 10% lt bnsh gy-med
gy, aren i/p, g/t vf clcar, tr
carb mat, tr dissem pyr, tr foss
frag, tr lith, frm-mod hd,
sbfiss-sbbkly.

Survey: 2083.60mMD (1477.7mTVD)
49.73° inc 306.46° az

CALCILUTITE: med lt gy-lt olv gy,
occ lt gnsh gy, slty i/p, tr glauc,
tr foss frag, frm, sbbkly.

Survey: 2113.01mMD (1495.7mTVD)
49.51° inc 306.37° az

CALCILUTITE: med lt gy-lt olv gy,
occ lt gnsh gy, slty i/p, tr glauc,
tr dissem pyr, tr foss frag,
frm, sbbkly.

Survey: 2141.81mMD (1515.5mTVD)
49.17° inc 306.11° az

WOB: 12-14
TDRPM: 118
MMRPM: 180
SPP: 2557
FLW: 623

WOB: 12-15
TDRPM: 117
MMRPM: 180
SPP: 2530
FLW: 620

2020
(1436.1)

2030

2040
(1449.2)

2050

2060
(1462.3)

2070

2080
(1475.4)

2090

2100
(1488.3)

2110

2120
(1501.3)

2130

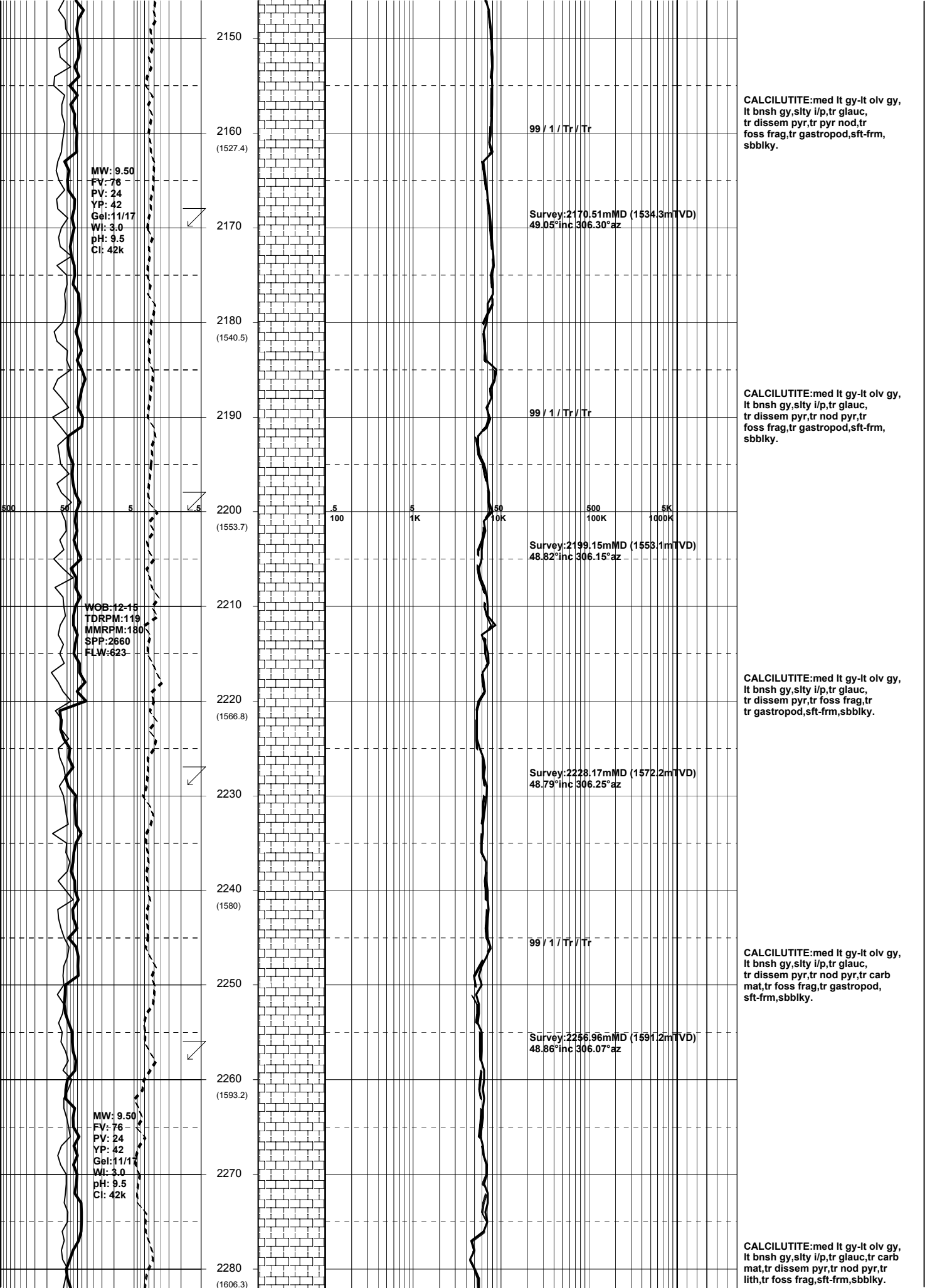
2140
(1514.3)

99 / 1 / Tr / Tr

99 / 1 / Tr / Tr

99 / 1 / Tr / Tr

99 / 1 / Tr / Tr



2150

2160

(1527.4)

2170

2180

(1540.5)

2190

2200

(1553.7)

2210

2220

(1566.8)

2230

2240

(1580)

2250

2260

(1593.2)

2270

2280

(1606.3)

99 / 1 / Tr / Tr

Survey: 2170.51mMD (1534.3mTVD)
49.05° inc 306.30° az

99 / 1 / Tr / Tr

Survey: 2199.15mMD (1553.1mTVD)
48.82° inc 306.15° az

Survey: 2228.17mMD (1572.2mTVD)
48.79° inc 306.25° az

99 / 1 / Tr / Tr

Survey: 2256.96mMD (1591.2mTVD)
48.86° inc 306.07° az

CALCILUTITE: med lt gy-lt olv gy,
lt bnsh gy, slty i/p, tr glauc,
tr disse pyr, tr pyr nod, tr
foss frag, tr gastropod, sft frm,
sbbiky.

CALCILUTITE: med lt gy-lt olv gy,
lt bnsh gy, slty i/p, tr glauc,
tr disse pyr, tr nod pyr, tr
foss frag, tr gastropod, sft frm,
sbbiky.

CALCILUTITE: med lt gy-lt olv gy,
lt bnsh gy, slty i/p, tr glauc,
tr disse pyr, tr foss frag, tr
tr gastropod, sft frm, sbbiky.

CALCILUTITE: med lt gy-lt olv gy,
lt bnsh gy, slty i/p, tr glauc,
tr disse pyr, tr nod pyr, tr carb
mat, tr foss frag, tr gastropod,
sft frm, sbbiky.

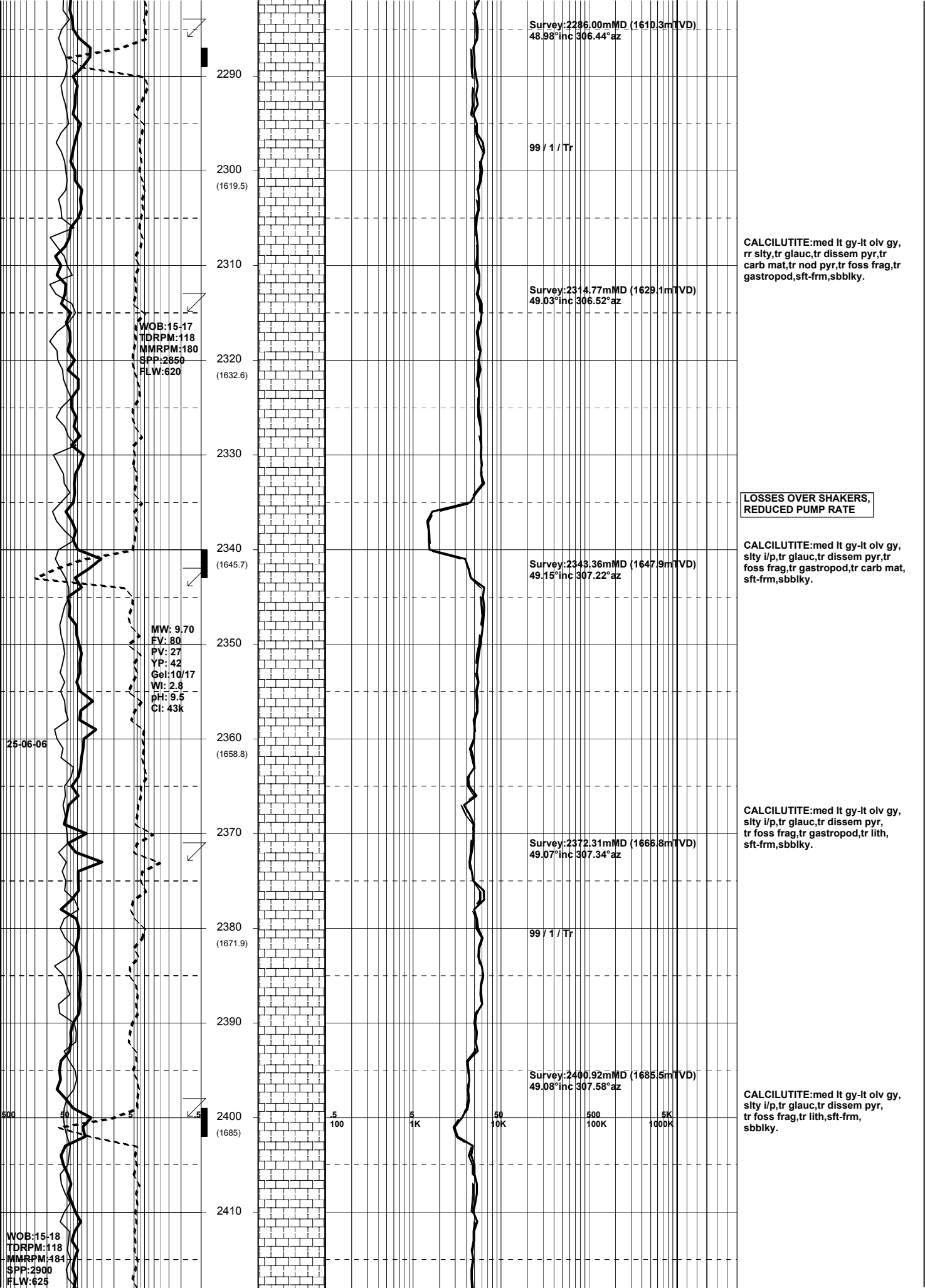
CALCILUTITE: med lt gy-lt olv gy,
lt bnsh gy, slty i/p, tr glauc, tr carb
mat, tr disse pyr, tr nod pyr, tr
lith, tr foss frag, sft frm, sbbiky.

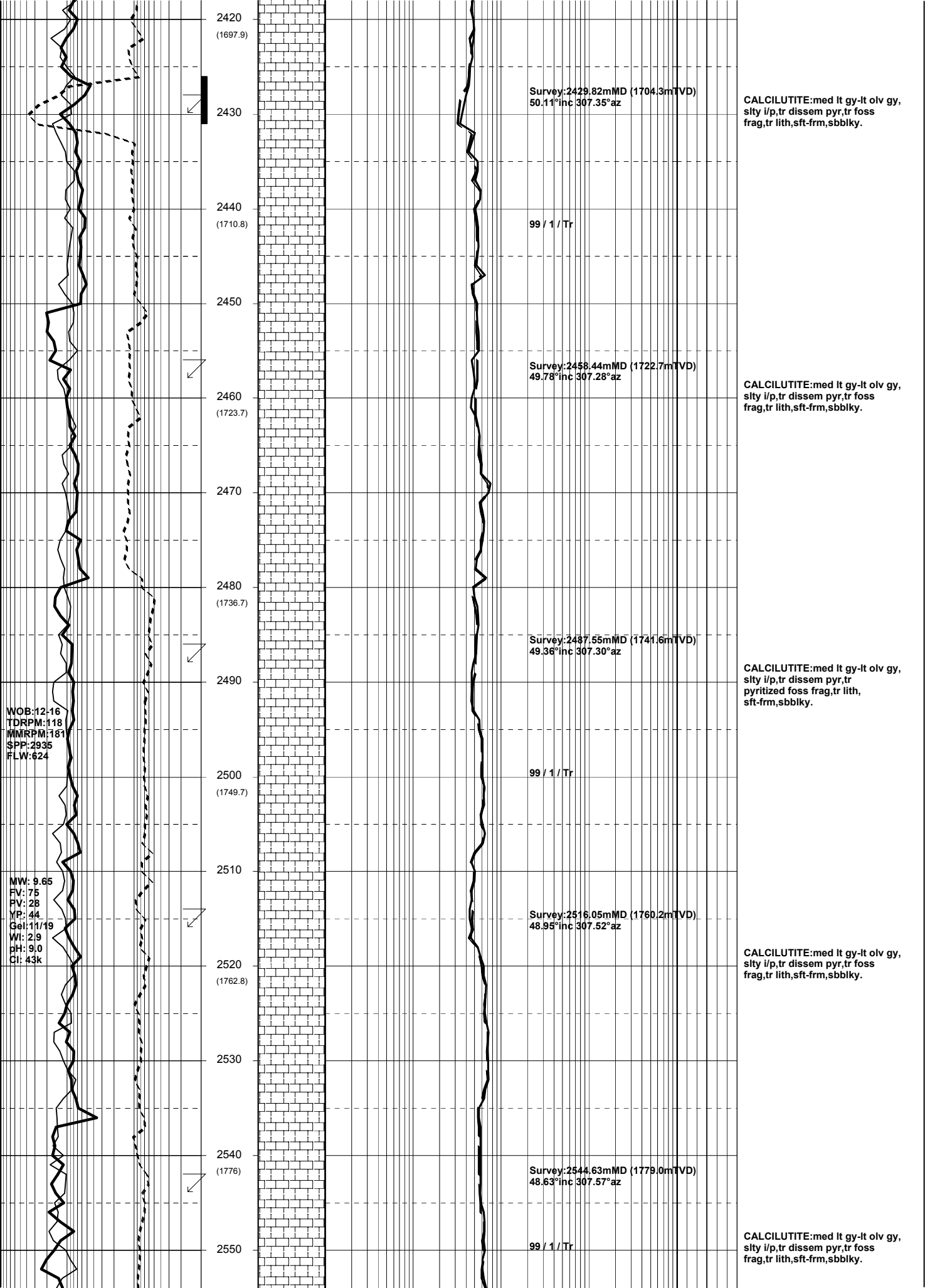
MW: 9.50
FV: 76
PV: 24
YP: 42
Gel: 11/17
W: 3.0
pH: 9.5
Cl: 42k

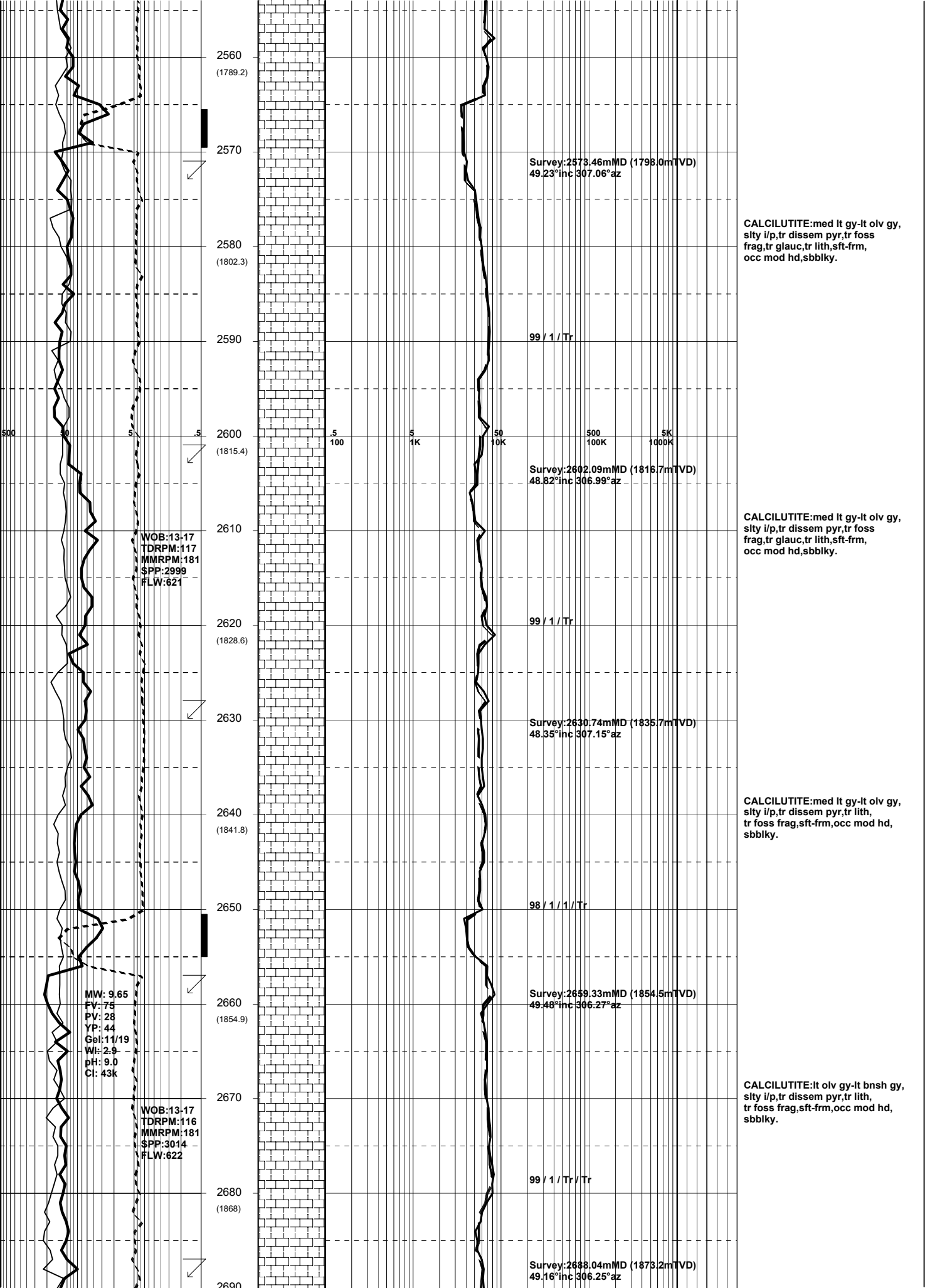
WOB: 12-15
TDRPM: 119
MMRPM: 180
SPP: 2660
FLW: 623

MW: 9.50
FV: 76
PV: 24
YP: 42
Gel: 11/17
W: 3.0
pH: 9.5
Cl: 42k

5 5 5 5 5
100 1K 10K 100K 1000K







2560
(1789.2)

2570

2580
(1802.3)

2590

2600
(1815.4)

2610

2620
(1828.6)

2630

2640
(1841.8)

2650

2660
(1854.9)

2670

2680
(1868)

2690

Survey:2573.46mMD (1798.0mTVD)
49.23°inc 307.06°az

99 / 1 / Tr

Survey:2602.09mMD (1815.7mTVD)
48.82°inc 306.99°az

99 / 1 / Tr

Survey:2630.74mMD (1835.7mTVD)
48.35°inc 307.15°az

98 / 1 / 1 / Tr

Survey:2659.33mMD (1854.5mTVD)
49.48°inc 306.27°az

99 / 1 / Tr / Tr

Survey:2688.04mMD (1873.2mTVD)
49.16°inc 306.25°az

WOB:13-17
TDRPM:117
MMRPM:181
SPP:2999
FLW:621

MW: 9.65
FV: 75
PV: 28
YP: 44
Gel: 11/19
WI: 2.9
pH: 9.0
Cl: 43k

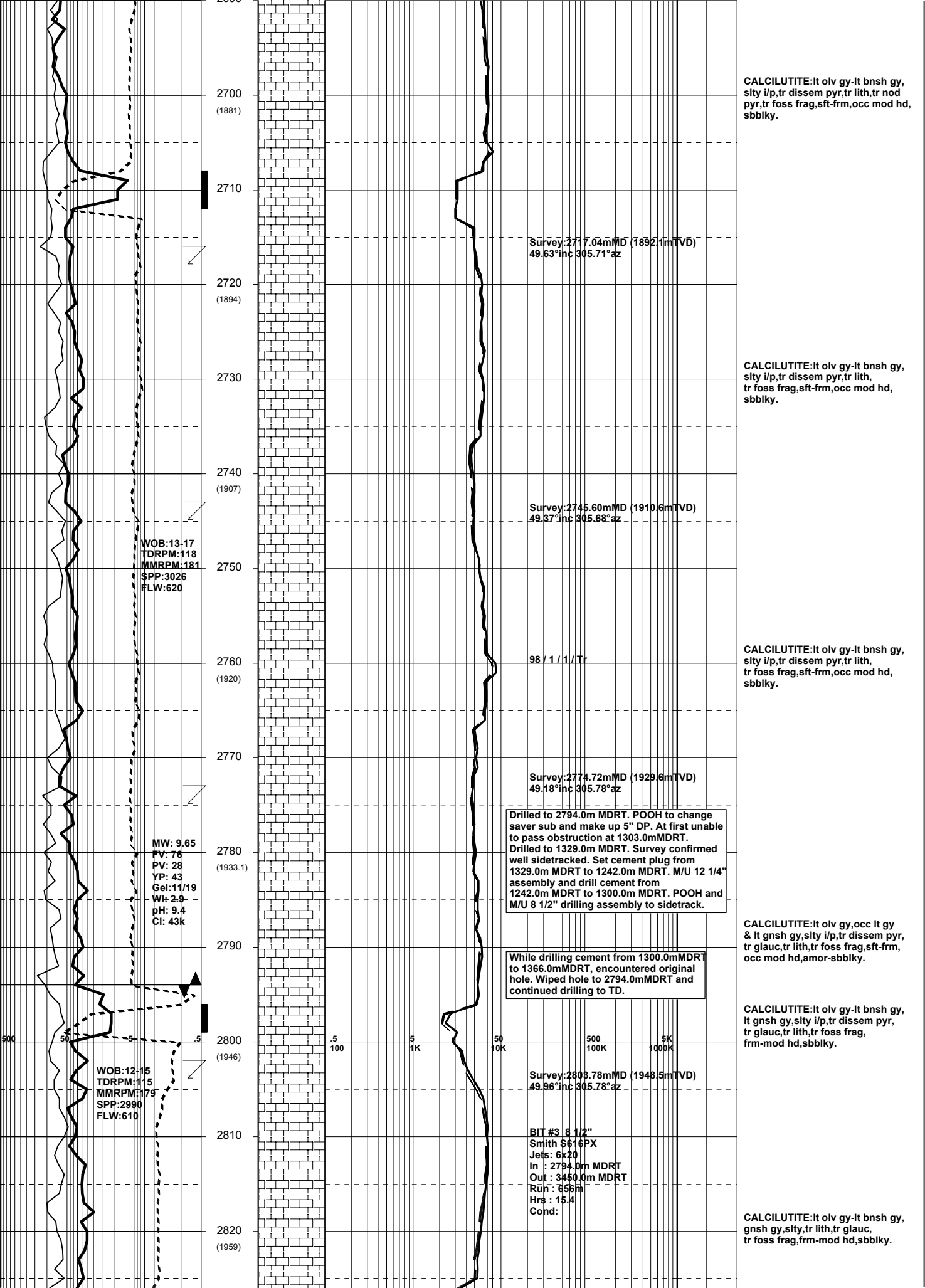
WOB:13-17
TDRPM:116
MMRPM:181
SPP:3014
FLW:622

CALCILUTITE:med lt gy-lt olv gy,
silty i/p,tr disseminated pyr,tr fossil
frag,tr glauc,tr lith,sft-frm,
occ mod hd,sbbkly.

CALCILUTITE:med lt gy-lt olv gy,
silty i/p,tr disseminated pyr,tr fossil
frag,tr glauc,tr lith,sft-frm,
occ mod hd,sbbkly.

CALCILUTITE:med lt gy-lt olv gy,
silty i/p,tr disseminated pyr,tr lith,
tr fossil frag,sft-frm,occ mod hd,
sbbkly.

CALCILUTITE:lt olv gy-lt bnsh gy,
silty i/p,tr disseminated pyr,tr lith,
tr fossil frag,sft-frm,occ mod hd,
sbbkly.



2830

Survey:2832.31mMD (1966.9mTVD)
49.50°inc 305.25°az

2840

(1972)

2850

98 / 1 / 1 / Tr

CALCILUTITE:lt olv gy-lt bnsh gy,
gnsh gy,occ v lt gy,silty,tr lith,
tr glauc,tr foss frag,occ sft,
frm-mod hd,occ amor-sbbkly.

2860

(1985.1)

Survey:2861.11mMD (1985.8mTVD)
48.72°inc 305.24°az

2870

2880

(1998.2)

Survey:2889.66mMD (2004.5mTVD)
49.20°inc 305.47°az

CALCILUTITE:lt olv gy-lt bnsh gy,
gnsh gy,silty,tr glauc,tr dissem pyr,
tr foss frag,tr lith,frm-mod hd,
sbbkly.

2890

WOB:45
TDRPM:115
MMRPM:179
SPP:3100
FLW:610

98 / 1 / 1 / Tr

2900

(2011.3)

CALCILUTITE:lt olv gy-lt bnsh gy,
gnsh gy,silty,tr glauc,tr dissem pyr,
tr foss frag,tr lith,frm-mod hd,
sbbkly.

2910

Survey:2918.51mMD (2023.4mTVD)
48.85°inc 306.13°az

2920

(2024.4)

CALCILUTITE:lt olv gy-lt bnsh gy,
gnsh gy,silty,tr glauc,tr dissem pyr,
tr foss frag,tr lith,frm-mod hd,
sbbkly.

2930

Lakes Entrance
2935.5mMDRT 2034.6mTVDRT
(-2001.2mTVDSS)

2940

(2037.6)

Survey:2946.57mMD (2041.9mTVD)
48.71°inc 307.42°az

CALCILUTITE:lt olv gy-lt bnsh
gy,silty,tr glauc,tr dissem pyr,
tr foss frag,tr lith,frm-mod hd,
sbbkly.

MW: 9.55
FV: 60
PV: 23
YP: 35
Gbl:10/16
Wl: 3.4
pH: 9.5
Cl: 40K

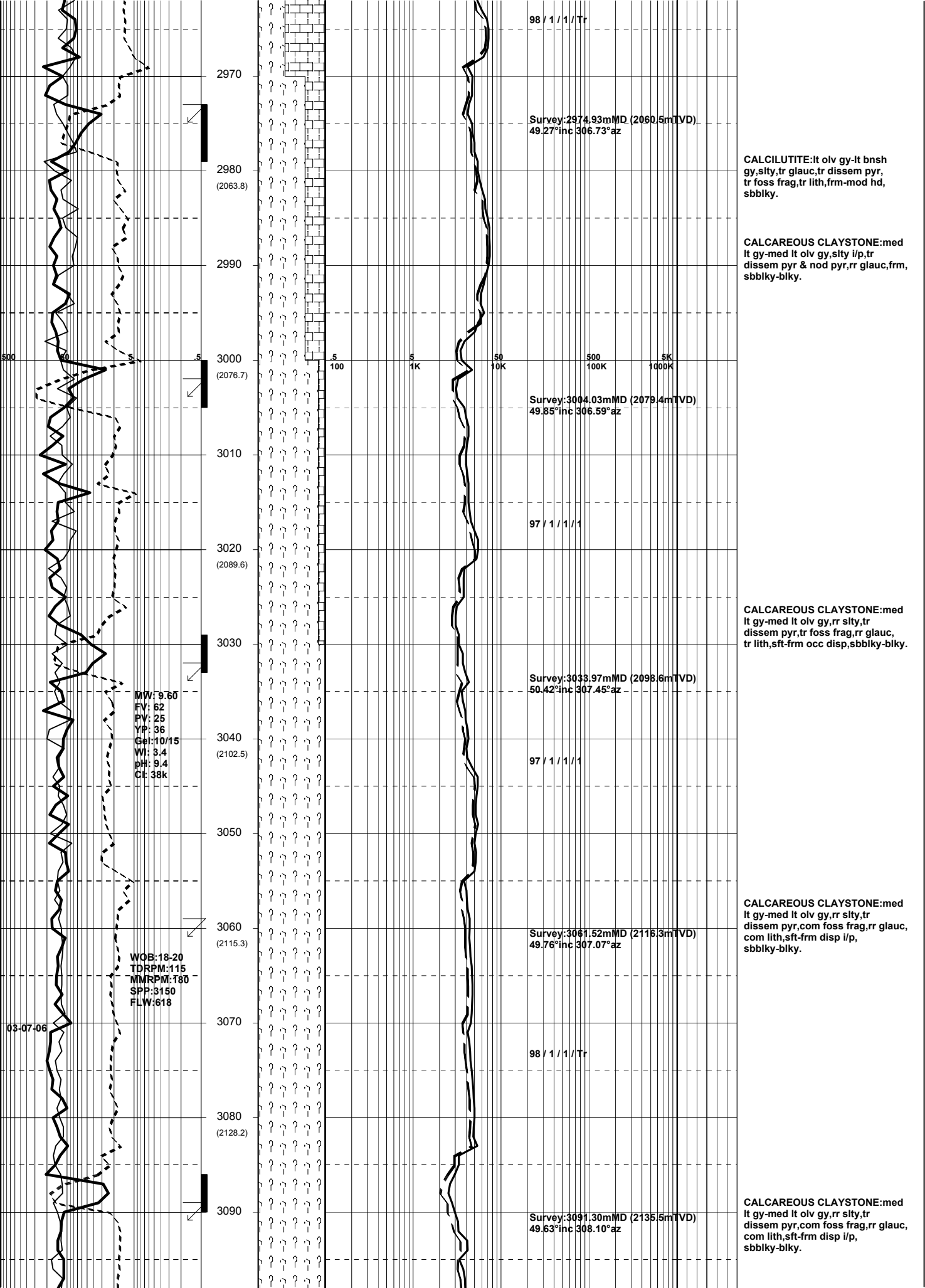
2950

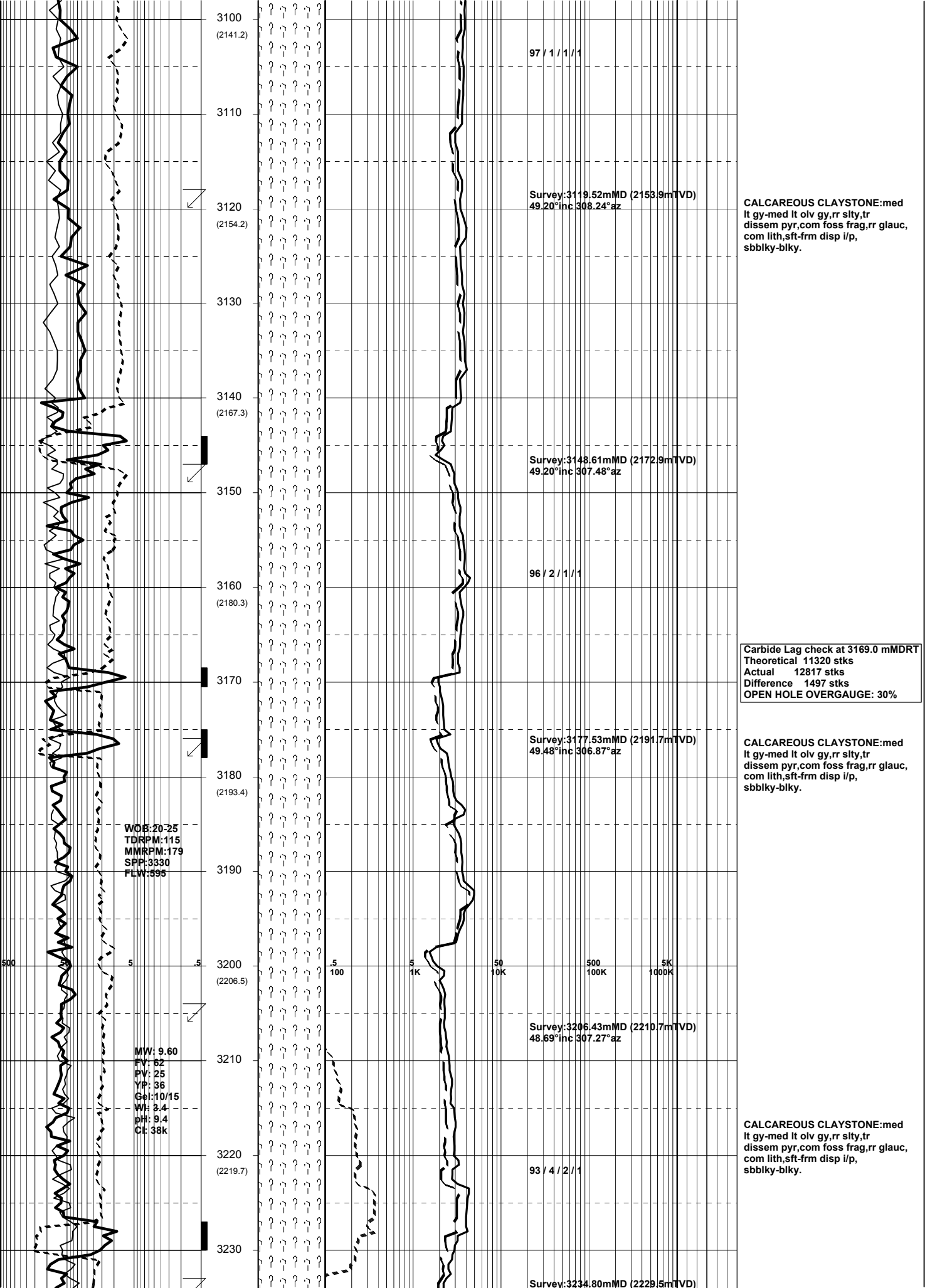
CALCAREOUS CLAYSTONE:med
lt gy-med gy,silty,mod calc,tr
dissem pyr,mod hd,sbbkly.

WOB:18-20
TDRPM:115
MMRPM:180
SPP:3200
FLW:620

2960

(2050.7)





97 / 1 / 1 / 1

Survey: 3119.52mMD (2153.9mTVD)
49.20° inc 308.24° az

CALCAREOUS CLAYSTONE: med
lt gy-med lt olv gy, rr slty, tr
dissem pyr, com foss frag, rr glauc,
com lith, sft-frm disp i/p,
sbbiky-biky.

Survey: 3148.61mMD (2172.9mTVD)
49.20° inc 307.48° az

96 / 2 / 1 / 1

Carbide Lag check at 3169.0 mMDRT
Theoretical 11320 stks
Actual 12817 stks
Difference 1497 stks
OPEN HOLE OVERGAUGE: 30%

Survey: 3177.53mMD (2191.7mTVD)
49.48° inc 306.87° az

CALCAREOUS CLAYSTONE: med
lt gy-med lt olv gy, rr slty, tr
dissem pyr, com foss frag, rr glauc,
com lith, sft-frm disp i/p,
sbbiky-biky.

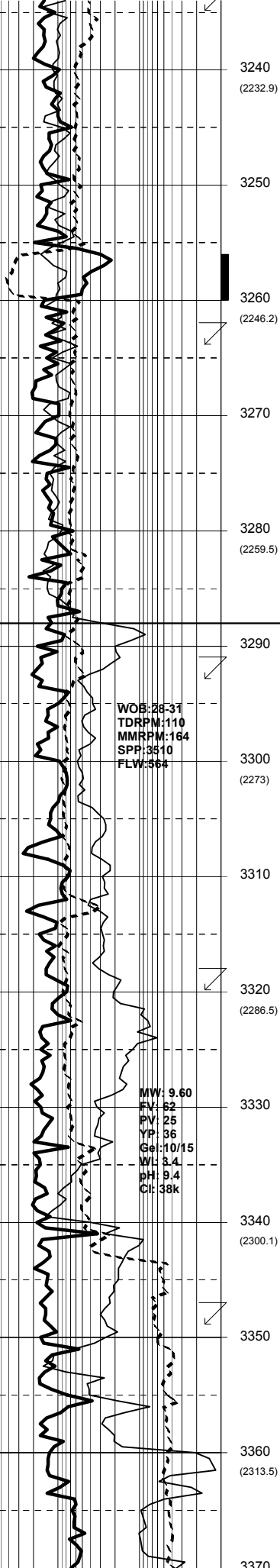
WOB: 20-25
TDRPM: 115
MMIRPM: 179
SPP: 3330
FLW: 595

MW: 9.60
FV: 62
PV: 25
YP: 36
Gel: 10/15
W: 3.4
pH: 9.4
Cl: 38k

Survey: 3206.43mMD (2210.7mTVD)
48.69° inc 307.27° az

CALCAREOUS CLAYSTONE: med
lt gy-med lt olv gy, rr slty, tr
dissem pyr, com foss frag, rr glauc,
com lith, sft-frm disp i/p,
sbbiky-biky.

Survey: 3234.80mMD (2229.5mTVD)



WOB: 28-31
 TDRPM: 110
 MMRPM: 164
 SPP: 3510
 FLW: 564

MW: 9.60
 FV: 62
 PV: 25
 YP: 36
 Gel: 10/15
 WL: 3.4
 pH: 9.4
 Cl: 38k

48.43° inc 307.17° az

92 / 5 / 2 / 1

Survey: 3263.45mMD (2248.4mTVD)
 48.49° inc 306.40° az

93 / 4 / 2 / 1

88 / 6 / 4 / 2 / Tr

CALCAREOUS CLAYSTONE: it bnsh gy-med lt gy, slty i/p, mod calc, tr disseminated pyr, tr lith, sft-mod hd, amor-sbbiky.

Top of Latrobe
 3288.0mMDRT 2264.9mTVDRT
 (-2231.5mTVDSS)

SILTSTONE: pl bn-dk yellsh bn, aren g/t vf SST, tr micmic, tr glauc, frm-mod hd, sbbfiss-sbbiky.

SANDSTONE: wh-pl gn, dom vf-f, mod w srt, sa-sr, tr glauc mtx, hd aggs, ti vis/inf por, no fluor.

CLAYSTONE: off wh-v pl gy, tr glauc pels, sft-frm, disp, amor.

SILTSTONE: 1) pl bn-dk yellsh bn, v aren g/t vf SST, tr micmic, tr glauc, com rock flour, frm-mod hd, sbbfiss-sbbiky.

SANDSTONE: wh-pl gn, dom vf-f, mod w srt, sa-sr, tr glauc mtx, hd aggs, ti vis/inf por, no fluor.

SILTSTONE: 2) med gy-med dk gy, v aren g/t vf SST, com micro pyr mtx, mod hd-hd, sbbfiss-sbbiky.

Top of P1.1 Sand
 3328.0mMDRT 2291.9mTVDRT
 (-2258.5mTVDSS)

SANDSTONE: clr-trnsl, f-rrv crs, p srt, sa-sr, wk pyr cmt, tr pyr nod, dom lse, occ frac qtz grns, occ hd aggs, pr-fr vis/inf por, no fluor.

Base of P1.1 Sand
 3340.0mMDRT 2300.0mTVDRT
 (-2266.6mTVDSS)

SANDSTONE: clr-trnsl, med occ vcrs dom crs, mod w srt, sa-sr, wk pyr cmt, tr pyr nod, dom lse, cln, fr inf/vis por, no fluor.

FLUOR: 3355-3360m: Trace dil prppt gn/yel fluor, v slw diffuse crsh cut, thn fim residue.

Top of M1.2L
 3357.0mMDRT 2311.5mTVDRT
 (-2278.1mTVDSS)

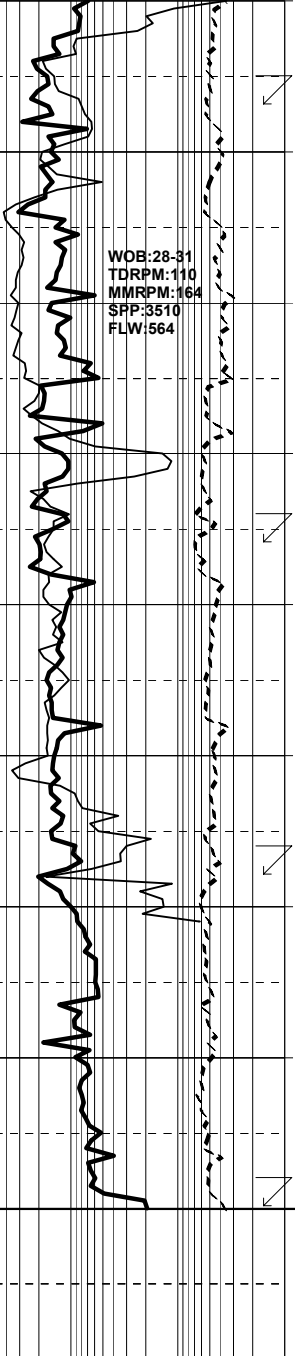
Base of M1.2L
 3364.0mMDRT 2316.2mTVDRT
 (-2282.8mTVDSS)

Survey: 3320.67mMD (2287.0mTVD)
 47.20° inc 306.95° az

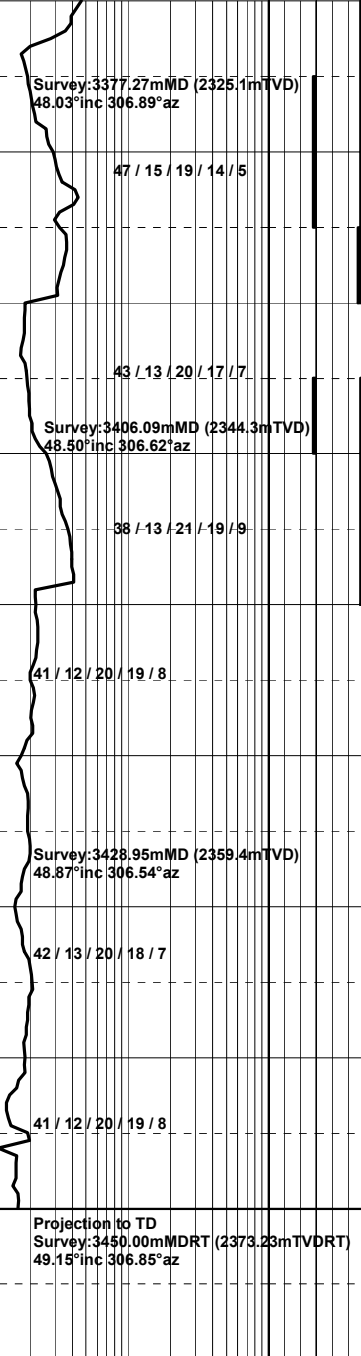
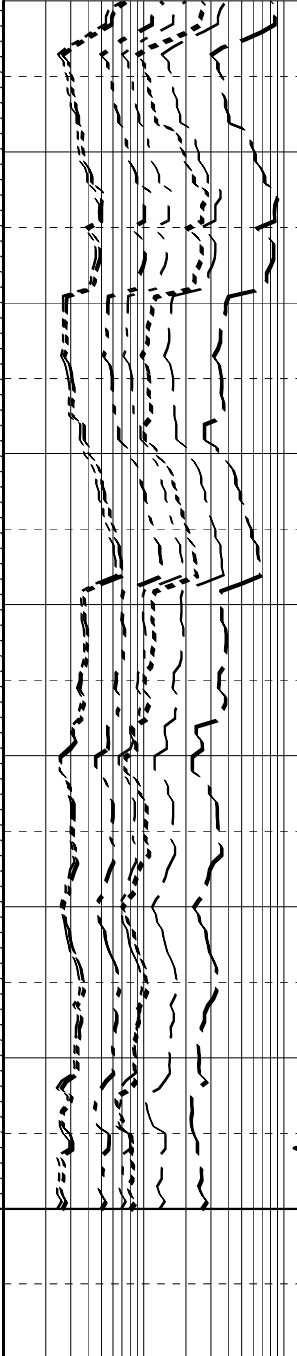
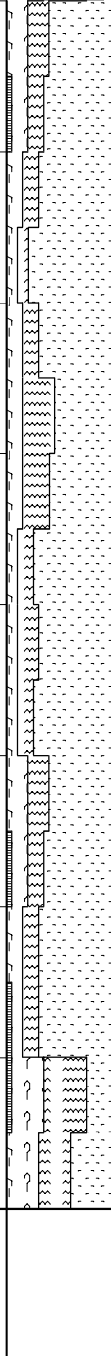
47 / 13 / 18 / 15 / 7

Survey: 3348.60mMD (2305.9mTVD)
 47.60° inc 306.81° az

45 / 14 / 18 / 16 / 7



WOB:28-31
 TDRPM:110
 MMRPM:164
 SPP:3510
 FLW:564



Survey:3377.27mMD (2325.1mTVD)
 48.03°inc 306.89°az

47 / 15 / 19 / 14 / 5

Survey:3406.09mMD (2344.3mTVD)
 48.50°inc 306.62°az

38 / 13 / 21 / 19 / 9

Survey:3428.95mMD (2359.4mTVD)
 48.87°inc 306.54°az

42 / 13 / 20 / 18 / 7

41 / 12 / 20 / 19 / 8

Projection to TD
 Survey:3450.00mMDRT (2373.23mTVDRT)
 49.15°inc 306.85°az

Top of M1.3
 3373.5mMDRT 2322.6mTVDRT
 (-2289.2mTVDSS)

Top of PS5 Sand
 3379.5mMDRT 2326.6mTVDRT
 (-2293.2mTVDSS)

Top of PS4 Sand
 3383.5mMDRT 2329.3mTVDRT
 (-2295.9mTVDSS)

FLUOR:3370-3390m:Trace dll pnpt
 gn/yel fluor,v slw diffuse cut,
 gn/yel thn flm residue.

FLUOR:3400-3410m:Trace dll pnpt
 gn/yel fluor,v slw diffuse cut,
 thn rng residue.

Top of M1.3L
 3402.5mMDRT 2341.9mTVDRT
 (-2308.5mTVDSS)

SANDSTONE:clr-trnsl,f-v crs,p srt,
 sb-sr,wk pyr cmt,tr pyr nod,dom
 lse,gen cln,fr inf por,fluor.

SANDSTONE:clr-trnsl,f-occ v crs,
 pr srt,ca-sr,tr pyr nod,dom lse,
 gen cln,pr-fr inf & vis por,tr
 fluor.

COAL: dusky brn,earthy,frm-mod hd
 sbbkly,unevn.

Top of 1.4 Coals
 3429.0mMDRT 2359.4mTVDRT
 (-2326.0mTVDSS)

SANDSTONE:clr-trnsl,med-dom v crs,
 mod wl srt,sa-sr,occ frac qtz grs,
 wk pyr cmt,tr pyr nod,pr-fr inf
 & vis por,no fluor.

SANDSTONE:clr-trnsl,med-som v
 crs,mod wl srt,sa-sr,wk pyr cmt,
 tr pyr nod,tr off wh arg mtx,
 dom lse,gen cln,pr-fr inf &
 vis por,no fluor.

WKF W-31A reached Total Depth of
 3450.0m MDRT 2373.2m TVDRT
 (-2339.8m TVDSS) at 23:30 hours
 on 03-07-2006.