



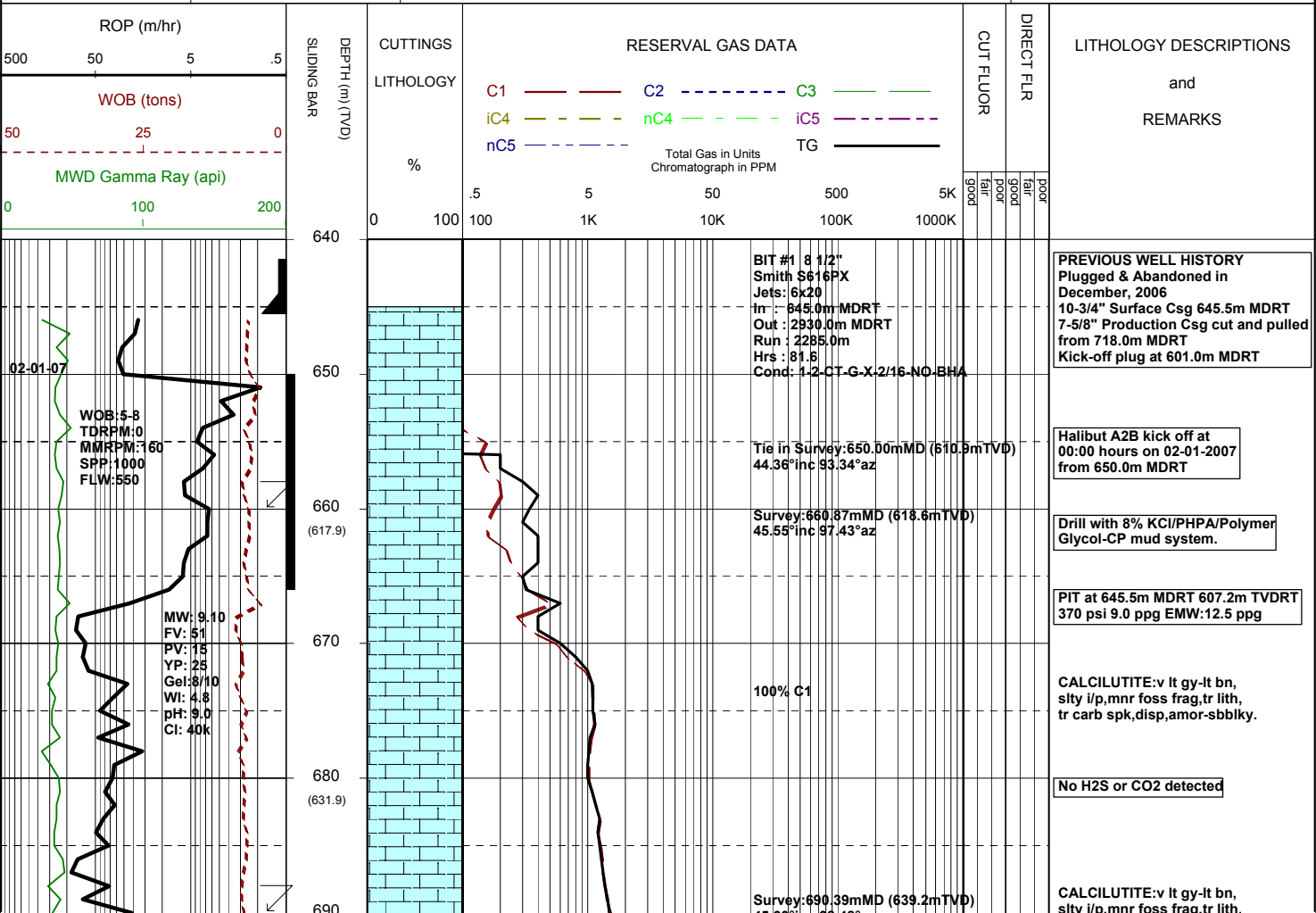
MASTERLOG

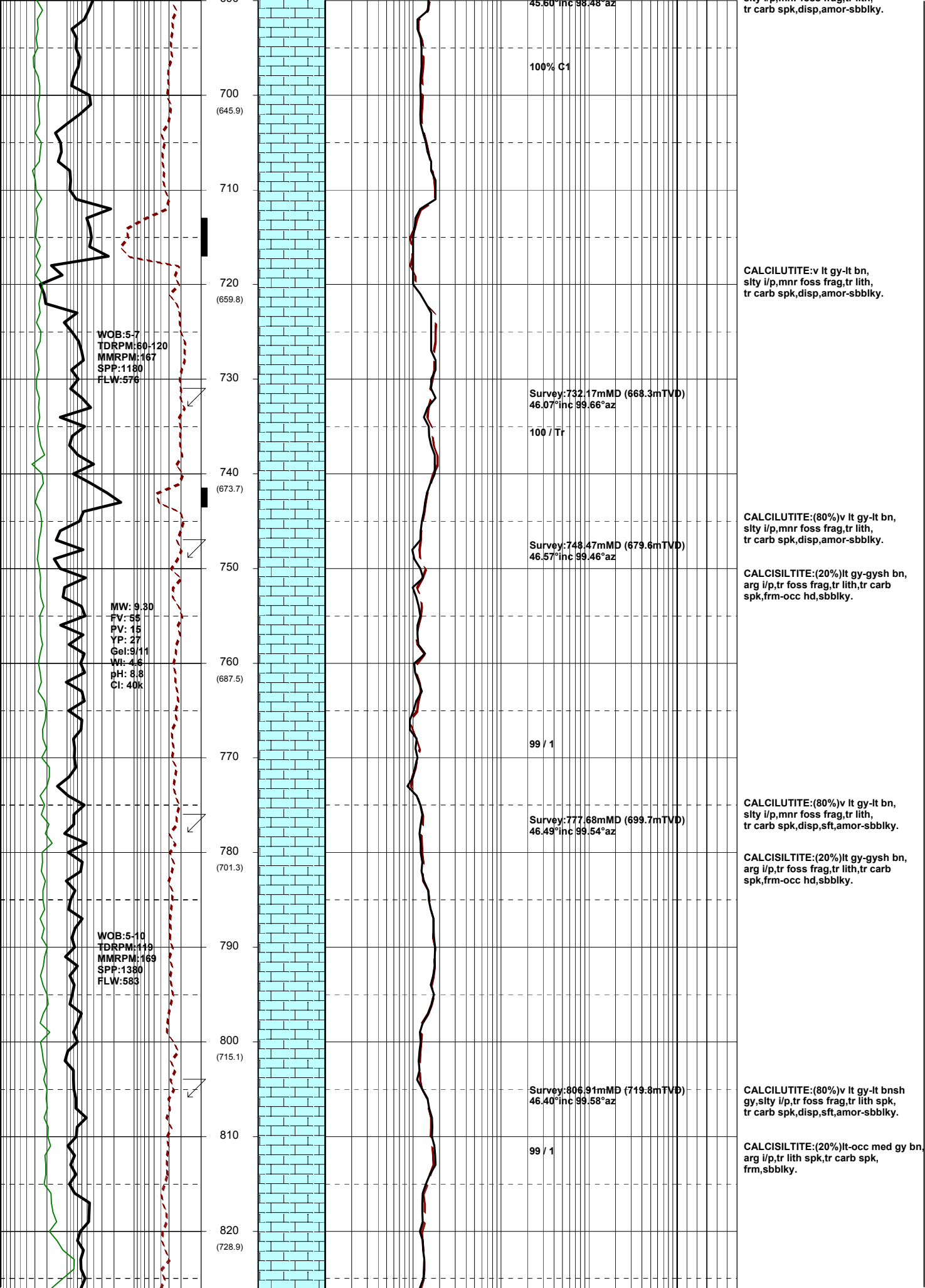
HLA-A2B

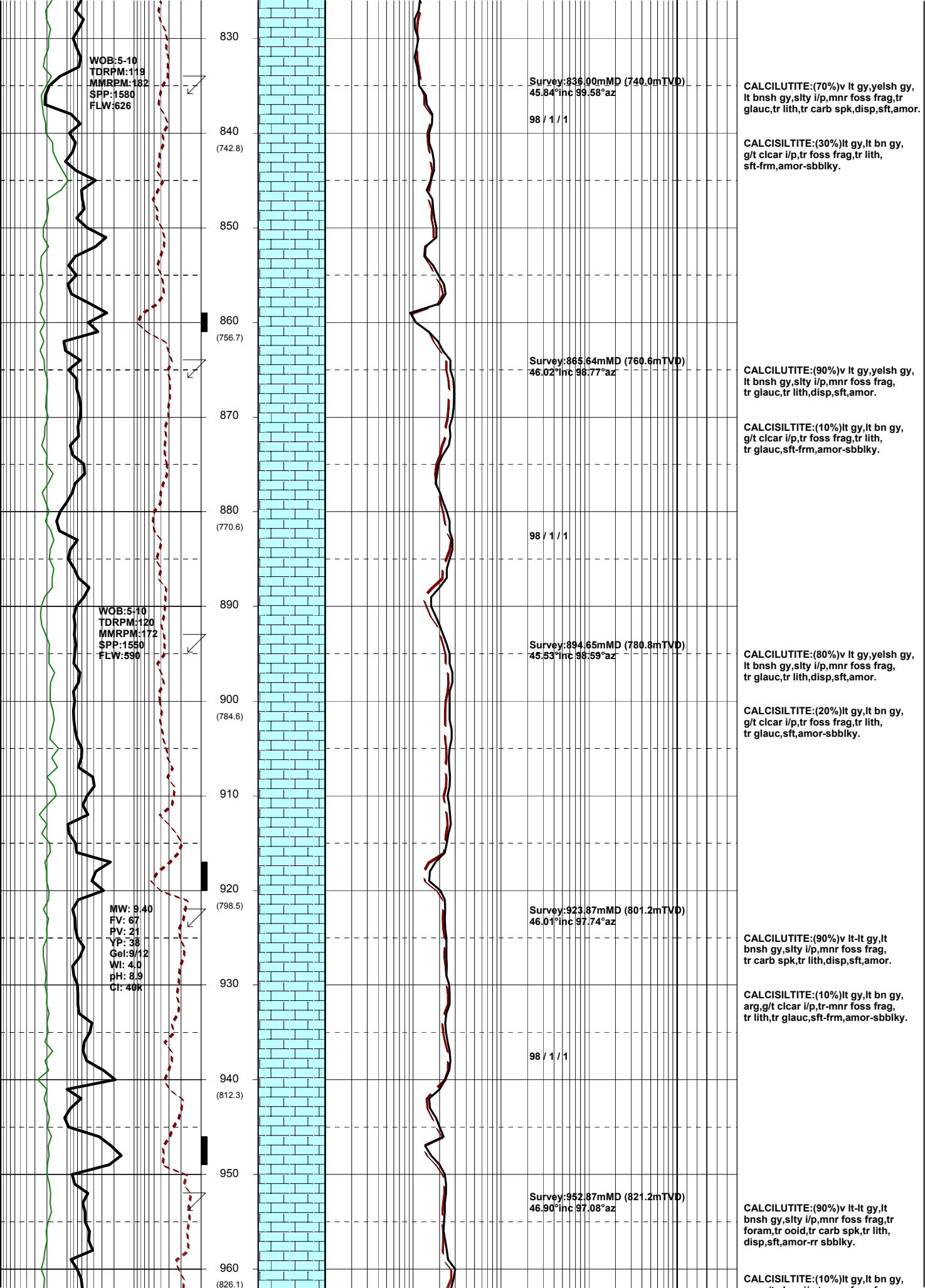


GENERAL	SURFACE POSITION	HOLE / CASING INFO	DATE / DEPTH	ENGINEERS
Country : AUSTRALIA	Longitude : 148 19 13.173E	8-1/2" Hole to 3347.0m MDRT	Kick off Date: 02-01-2007	Noel Elliott
Permit : VIC L5	Latitude : 38 24 15.111S		Total Depth Date : 13-01-2007	Mark Smith
Field : Halibut	MGA Co-ord X : 615284.29mE	10-3/4" Csg Shoe at 645.5m MDRT	Total Depth : 3347.0m MDRT	Steve Oades
Basin : GIPPSLAND	MGA Co-ord Y : 5748511.66mN	7" Production Csg at 3342.0m MDRT	True Vertical Depth : 2450.7m TVDRT	
Well Type : DEVELOPMENT	RT to MSL : 29.45m		Log Scale : 1/ 500	
Rig Name : NABORS 453	RT to Sea Bed : 102.45m			

ABBREVIATIONS	LITHOLOGY LEGEND	ENGINEERING LEGEND
MW Mud Weight WOB Weight on Bit (klbs) RV Funnel Viscosity RPM Rotations Per Min PV Plastic Viscosity FLW Flow Rate (gpm) YP Yield Point SPP Pump Pressure (psi) Gel Gel Strength RR Re-Run Bit WL Water Loss TG Trip Gas KCI Potassium Chloride CG Connection Gas Cl Chlorides BG Background Gas Incl Inclination DGP Drilled Gas Peak Az Azimuth MM Mud Motor	CLAYSTONE MARL SILTSTONE LIMESTONE SANDSTONE DOLOMITE SHALE CHERT CONGLOMERATE COAL	BRYOZOA RADIOLARITES ECHINOIDS CORALS FORAMINIFERA LITHIC FRAGMENT CARB FRAGMENT QUARTZITE INTRUSIVES GLAUCONITE PYRITE CEMENT CASING SHOE LINER HANGER BIT CHANGE DEVIATION SURVEY SWC UNRECOVERED SIDEWALL CORE CORE WIRELINE LOGS MDT POINTS: PRESSURE ONLY SAMPLE SEAL FAILURE TIGHT SLIDING







WOB: 5-10
 TDRPM: 119
 MMRPM: 182
 SPP: 1580
 FLW: 626

830

Survey: 836.00mMD (740.0mTVD)
 45.84°inc 99.58°az

CALCILUTITE:(70%)v It gy,yelsh gy,
 It bnsh gy,sity i/p,mnr foss frag,tr
 glauc,tr lith,tr carb spk,disp,sft,amor.

840

(742.8)

98 / 1 / 1

CALCILUTITE:(30%)It gy,It bn gy,
 g/t clcar i/p,tr foss frag,tr lith,
 sft-frm,amor-sbbkly.

850

860

(756.7)

Survey: 865.64mMD (760.6mTVD)
 46.02°inc 98.77°az

CALCILUTITE:(90%)v It gy,yelsh gy,
 It bnsh gy,sity i/p,mnr foss frag,
 tr glauc,tr lith,disp,sft,amor.

870

CALCILUTITE:(10%)It gy,It bn gy,
 g/t clcar i/p,tr foss frag,tr lith,
 tr glauc,sft-frm,amor-sbbkly.

880

(770.6)

98 / 1 / 1

WOB: 5-10
 TDRPM: 120
 MMRPM: 172
 SPP: 1550
 FLW: 590

890

Survey: 894.65mMD (780.8mTVD)
 45.53°inc 98.59°az

CALCILUTITE:(80%)v It gy,yelsh gy,
 It bnsh gy,sity i/p,mnr foss frag,
 tr glauc,tr lith,disp,sft,amor.

900

(784.6)

CALCILUTITE:(20%)It gy,It bn gy,
 g/t clcar i/p,tr foss frag,tr lith,
 tr glauc,sft,amor-sbbkly.

910

920

(798.5)

Survey: 923.87mMD (801.2mTVD)
 46.01°inc 97.74°az

CALCILUTITE:(90%)v It-It gy,It
 bnsh gy,sity i/p,mnr foss frag,
 tr carb spk,tr lith,disp,sft,amor.

MW: 9.40
 FV: 67
 VP: 21
 Gel: 9/12
 WI: 4.0
 pH: 8.9
 Ct: 40K

930

CALCILUTITE:(10%)It gy,It bn gy,
 arg,g/t clcar i/p,tr-mnr foss frag,
 tr lith,tr glauc,sft-frm,amor-sbbkly.

98 / 1 / 1

940

(812.3)

Survey: 952.87mMD (821.2mTVD)
 46.90°inc 97.08°az

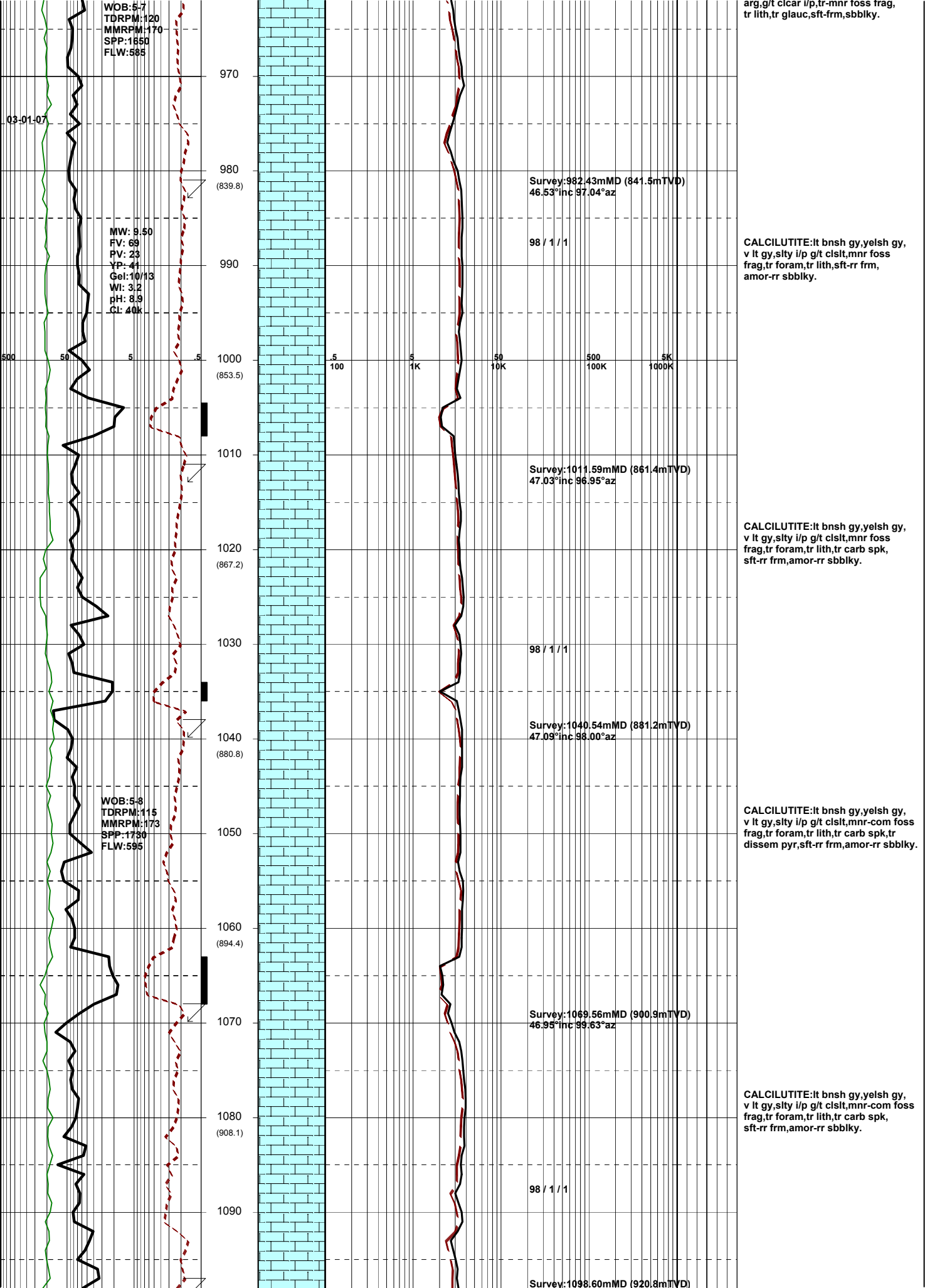
CALCILUTITE:(90%)v It-It gy,It
 bnsh gy,sity i/p,mnr foss frag,tr
 foram,tr ooid,tr carb spk,tr lith,
 disp,sft,amor-rr sbbkly.

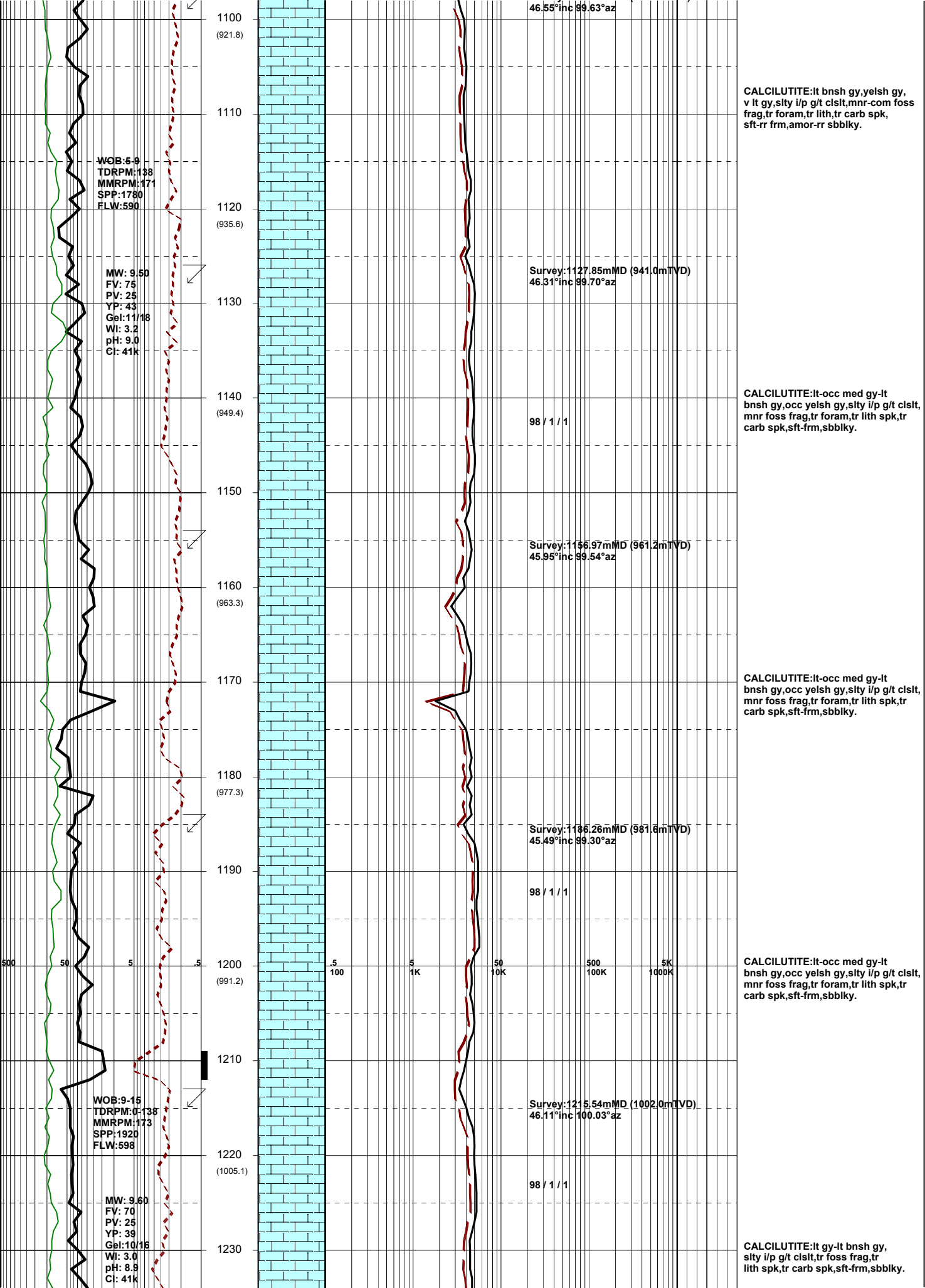
950

960

(826.1)

CALCILUTITE:(10%)It gy,It bn gy,





1100 (921.8)
 1110
 1120 (935.6)
 1130
 1140 (949.4)
 1150
 1160 (963.3)
 1170
 1180 (977.3)
 1190
 1200 (991.2)
 1210
 1220 (1005.1)
 1230

WOB: 5-9
 TDRPM: 138
 MMRPM: 171
 SPP: 1780
 FLW: 590

MW: 9.50
 FV: 75
 PV: 25
 YP: 43
 Gel: 11/18
 WI: 3.2
 pH: 9.0
 Cl: 41k

WOB: 9-15
 TDRPM: 0-138
 MMRPM: 173
 SPP: 1920
 FLW: 598

MW: 9.60
 FV: 70
 PV: 25
 YP: 39
 Gel: 10/18
 WI: 3.0
 pH: 8.9
 Cl: 41k

46.55° inc 99.63° az
 Survey: 1127.85mMD (941.0mTVD)
 46.31° inc 99.70° az
 98 / 1 / 1
 Survey: 1156.97mMD (961.2mTVD)
 45.95° inc 99.54° az
 Survey: 1186.26mMD (981.6mTVD)
 45.49° inc 99.30° az
 98 / 1 / 1
 Survey: 1215.54mMD (1002.0mTVD)
 46.11° inc 100.03° az
 98 / 1 / 1

CALCILUTITE: lt bsh gy, yelsh gy, v lt gy, slty i/p g/t clslt, mnr-com foss frag, tr foram, tr lith, tr carb spk, sft-rr frm, amor-rr sbblyky.

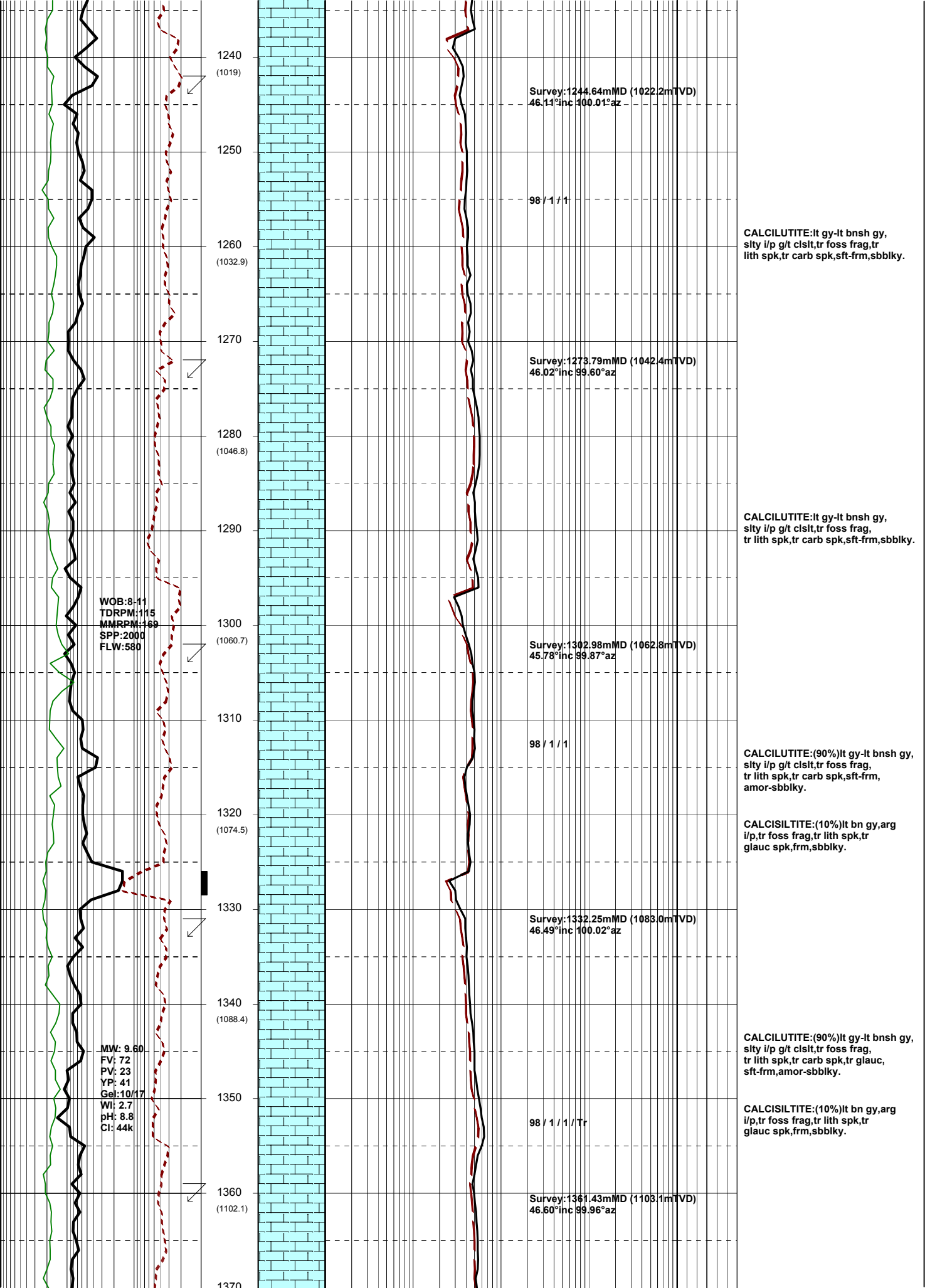
CALCILUTITE: lt-occ med gy-lt bsh gy, occ yelsh gy, slty i/p g/t clslt, mnr foss frag, tr foram, tr lith spk, tr carb spk, sft-frm, sbblyky.

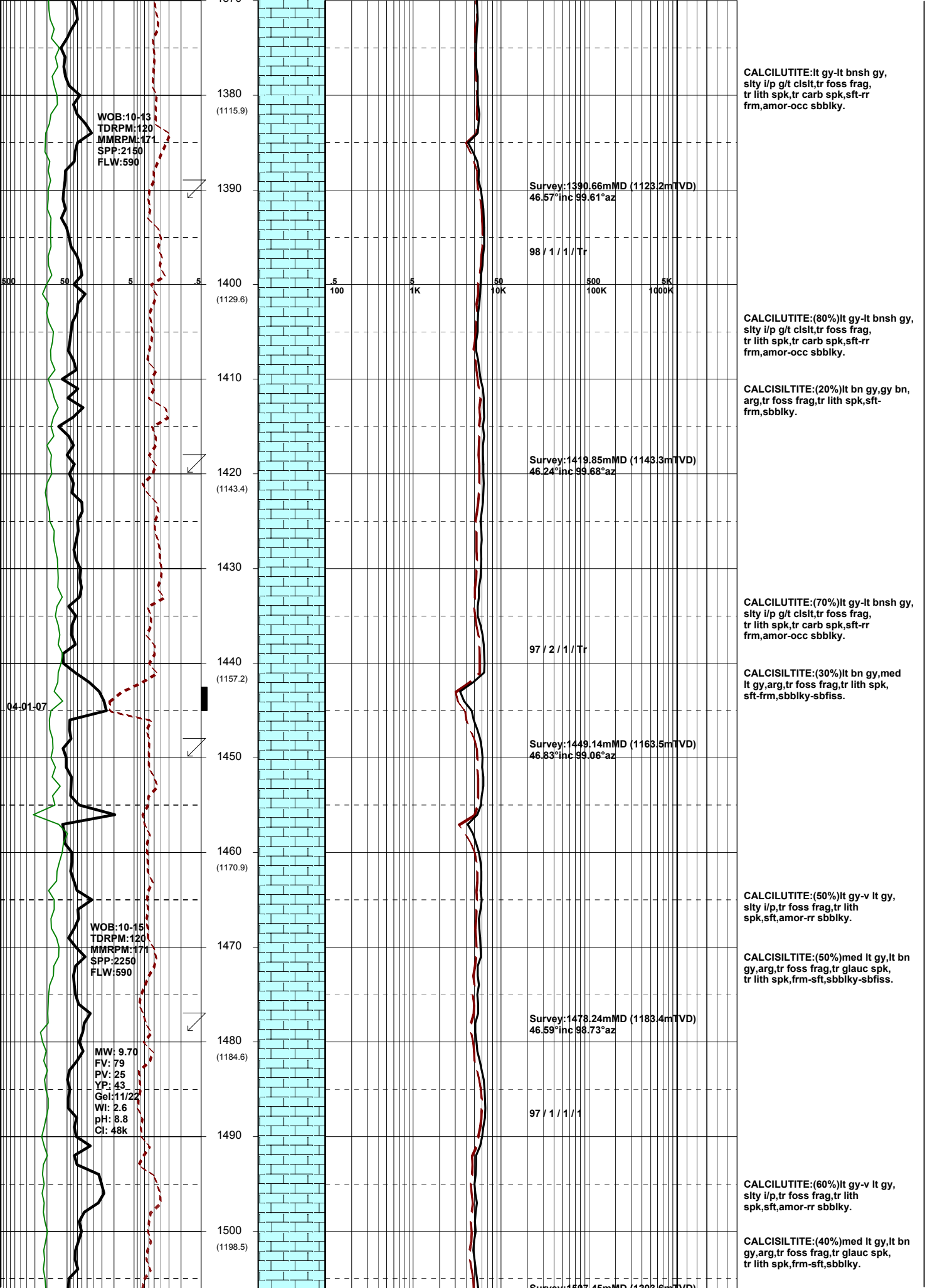
CALCILUTITE: lt-occ med gy-lt bsh gy, occ yelsh gy, slty i/p g/t clslt, mnr foss frag, tr foram, tr lith spk, tr carb spk, sft-frm, sbblyky.

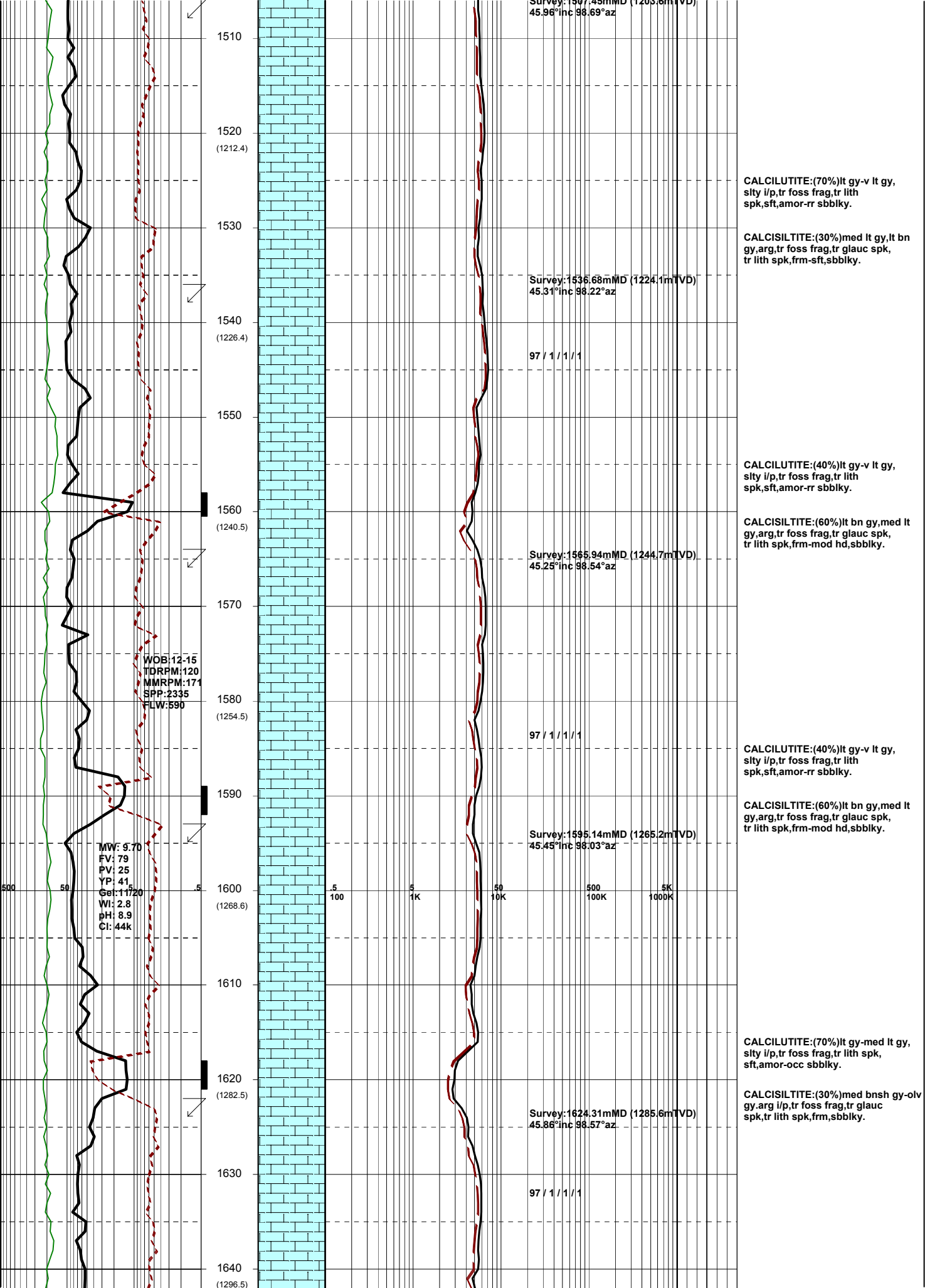
CALCILUTITE: lt-occ med gy-lt bsh gy, occ yelsh gy, slty i/p g/t clslt, mnr foss frag, tr foram, tr lith spk, tr carb spk, sft-frm, sbblyky.

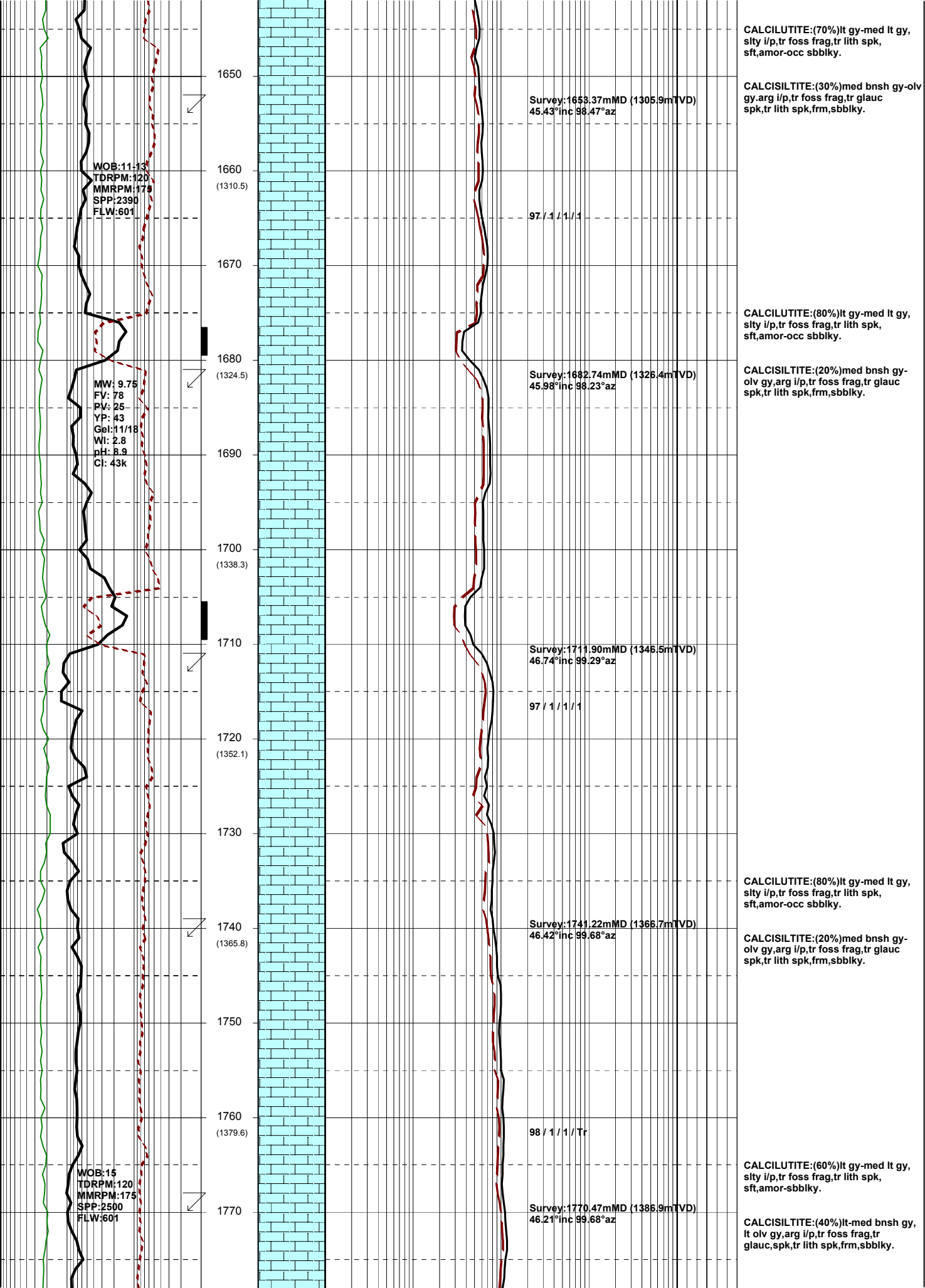
CALCILUTITE: lt gy-lt bsh gy, slty i/p g/t clslt, tr foss frag, tr lith spk, tr carb spk, sft-frm, sbblyky.

100 1K 10K 100K 1000K









CALCILUTITE:(70%)lt gy-med lt gy, slty i/p, tr foss frag, tr lith spk, sft, amor-occ sbbiky.

CALCILUTITE:(30%)med bnsh gy-olv gy, arg i/p, tr foss frag, tr glauc spk, tr lith spk, frm, sbbiky.

CALCILUTITE:(80%)lt gy-med lt gy, slty i/p, tr foss frag, tr lith spk, sft, amor-occ sbbiky.

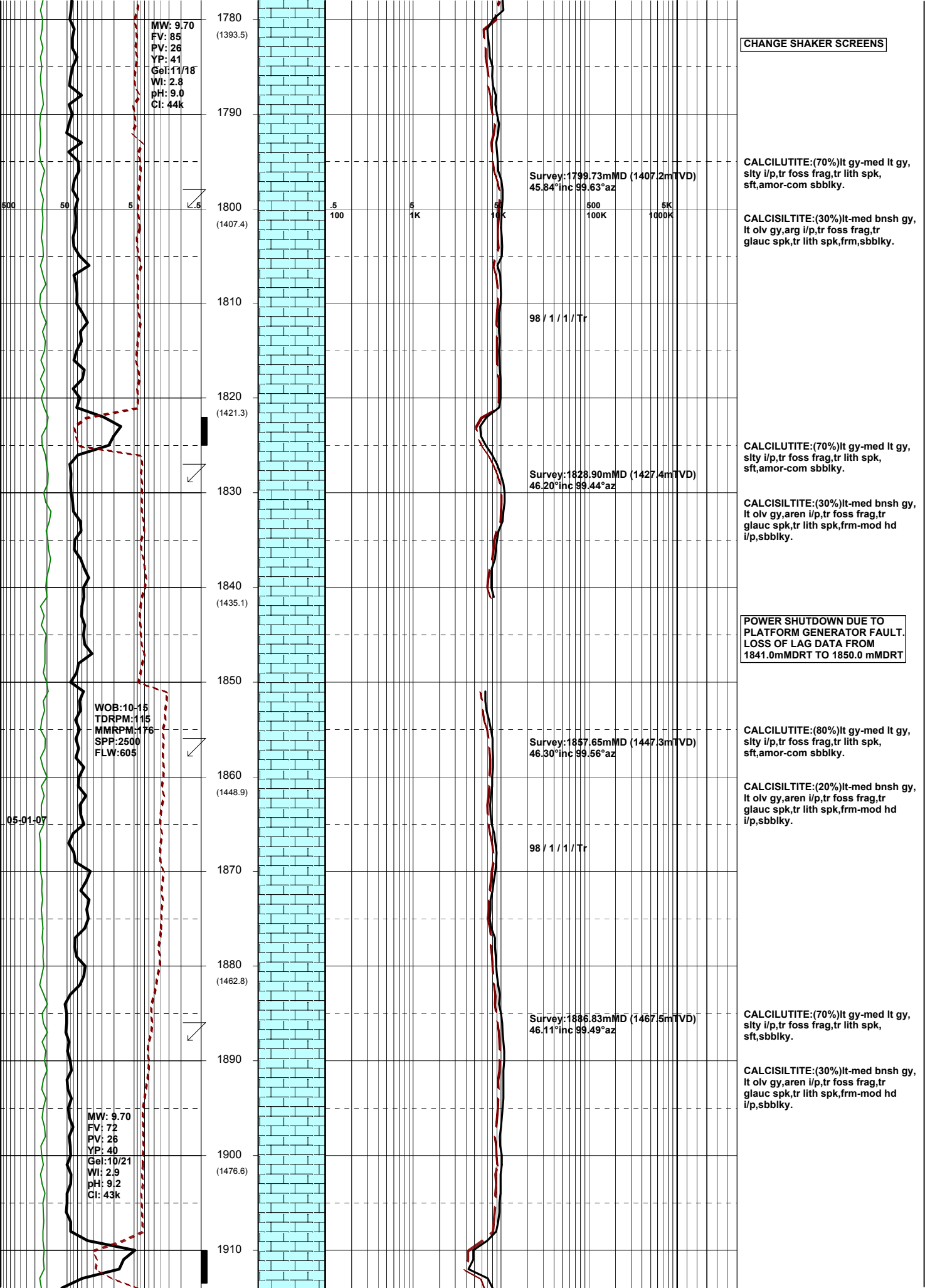
CALCILUTITE:(20%)med bnsh gy-olv gy, arg i/p, tr foss frag, tr glauc spk, tr lith spk, frm, sbbiky.

CALCILUTITE:(80%)lt gy-med lt gy, slty i/p, tr foss frag, tr lith spk, sft, amor-occ sbbiky.

CALCILUTITE:(20%)med bnsh gy-olv gy, arg i/p, tr foss frag, tr glauc spk, tr lith spk, frm, sbbiky.

CALCILUTITE:(60%)lt gy-med lt gy, slty i/p, tr foss frag, tr lith spk, sft, amor-sbbiky.

CALCILUTITE:(40%)lt-med bnsh gy, lt olv gy, arg i/p, tr foss frag, tr glauc, spk, tr lith spk, frm, sbbiky.



MW: 9.70
 FV: 85
 PV: 26
 YP: 41
 Gel: 11/18
 WI: 2.8
 pH: 9.0
 CI: 44k

CHANGE SHAKER SCREENS

Survey: 1799.73mMD (1407.2mTVD)
 45.84°inc 99.63°az

CALCILUTITE:(70%)lt gy-med lt gy,
 slty i/p,tr foss frag,tr lith spk,
 sft,amor-com sbbkly.

CALCILUTITE:(30%)lt-med bnsh gy,
 lt olv gy,arg i/p,tr foss frag,tr
 glauc spk,tr lith spk,frm,sbbkly.

98 / 1 / 1 / Tr

Survey: 1828.90mMD (1427.4mTVD)
 46.20°inc 99.44°az

CALCILUTITE:(70%)lt gy-med lt gy,
 slty i/p,tr foss frag,tr lith spk,
 sft,amor-com sbbkly.

CALCILUTITE:(30%)lt-med bnsh gy,
 lt olv gy,aren i/p,tr foss frag,tr
 glauc spk,tr lith spk,frm-mod hd
 i/p,sbbkly.

POWER SHUTDOWN DUE TO
 PLATFORM GENERATOR FAULT.
 LOSS OF LAG DATA FROM
 1841.0mMDRT TO 1850.0 mMDRT

WOB:10-15
 TDRPM:115
 MMRPM:175
 SPP:2500
 FLW:605

Survey: 1857.65mMD (1447.3mTVD)
 46.30°inc 99.56°az

CALCILUTITE:(80%)lt gy-med lt gy,
 slty i/p,tr foss frag,tr lith spk,
 sft,amor-com sbbkly.

CALCILUTITE:(20%)lt-med bnsh gy,
 lt olv gy,aren i/p,tr foss frag,tr
 glauc spk,tr lith spk,frm-mod hd
 i/p,sbbkly.

98 / 1 / 1 / Tr

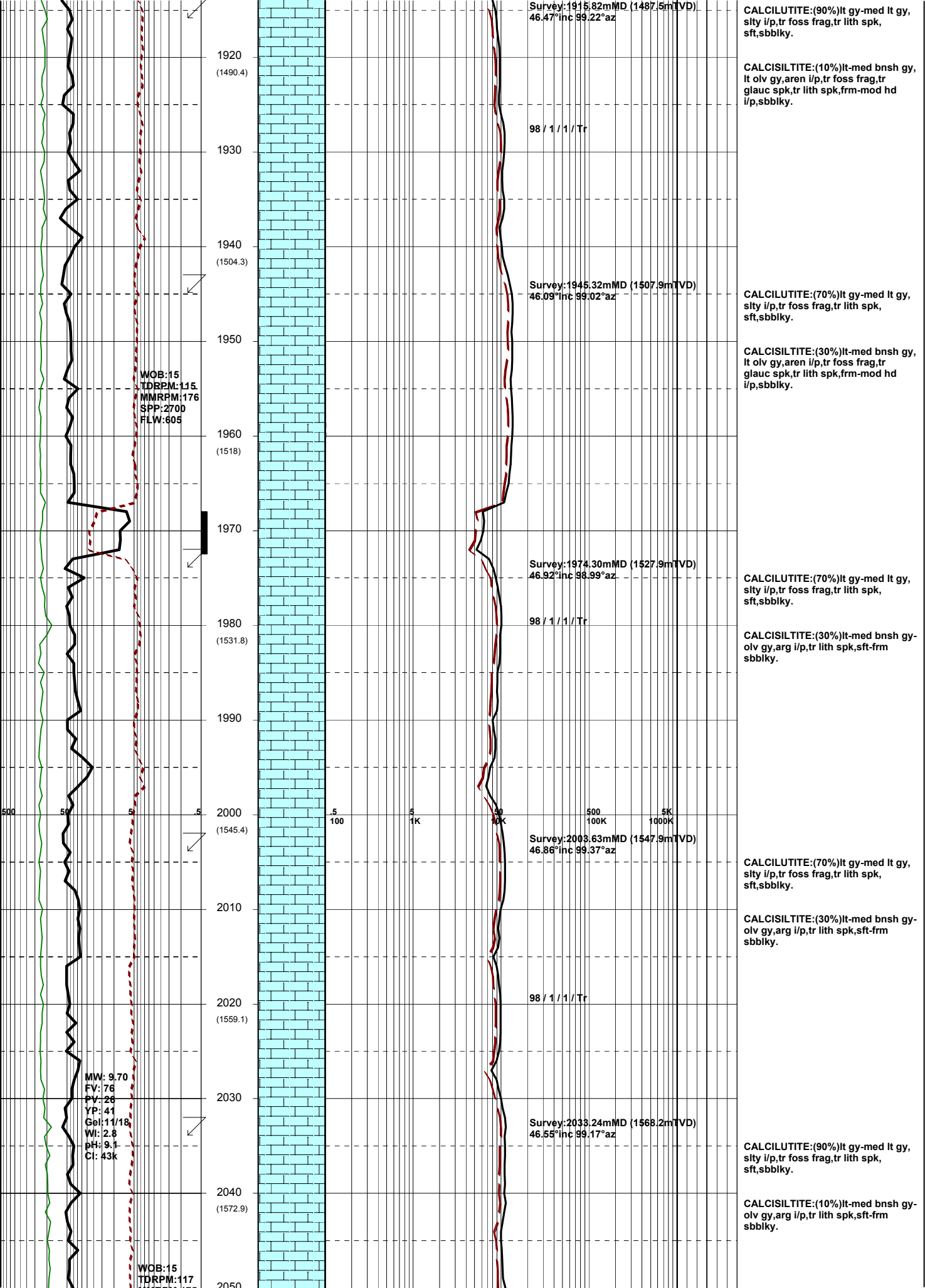
Survey: 1886.83mMD (1467.5mTVD)
 46.11°inc 99.49°az

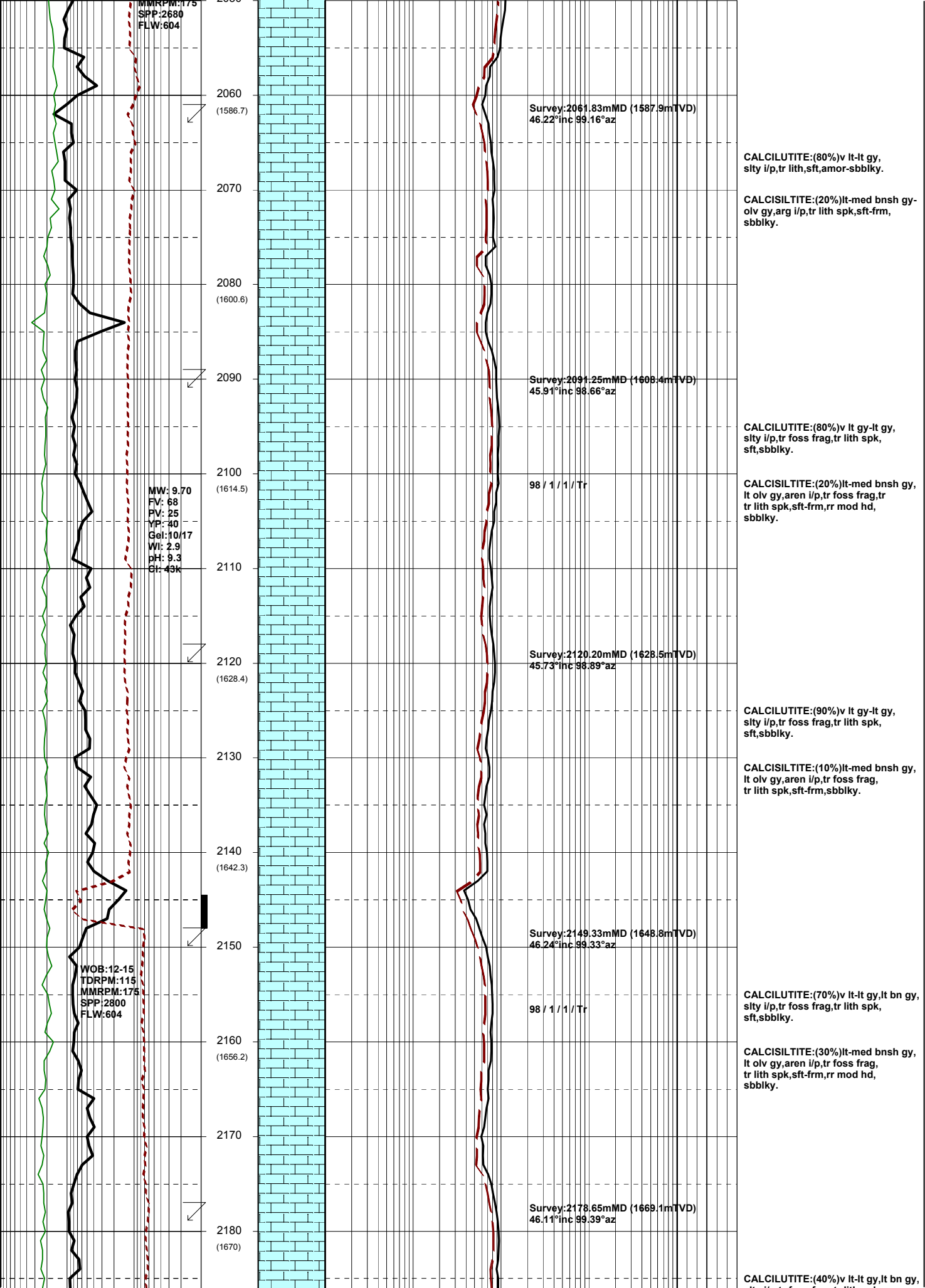
CALCILUTITE:(70%)lt gy-med lt gy,
 slty i/p,tr foss frag,tr lith spk,
 sft,sbbkly.

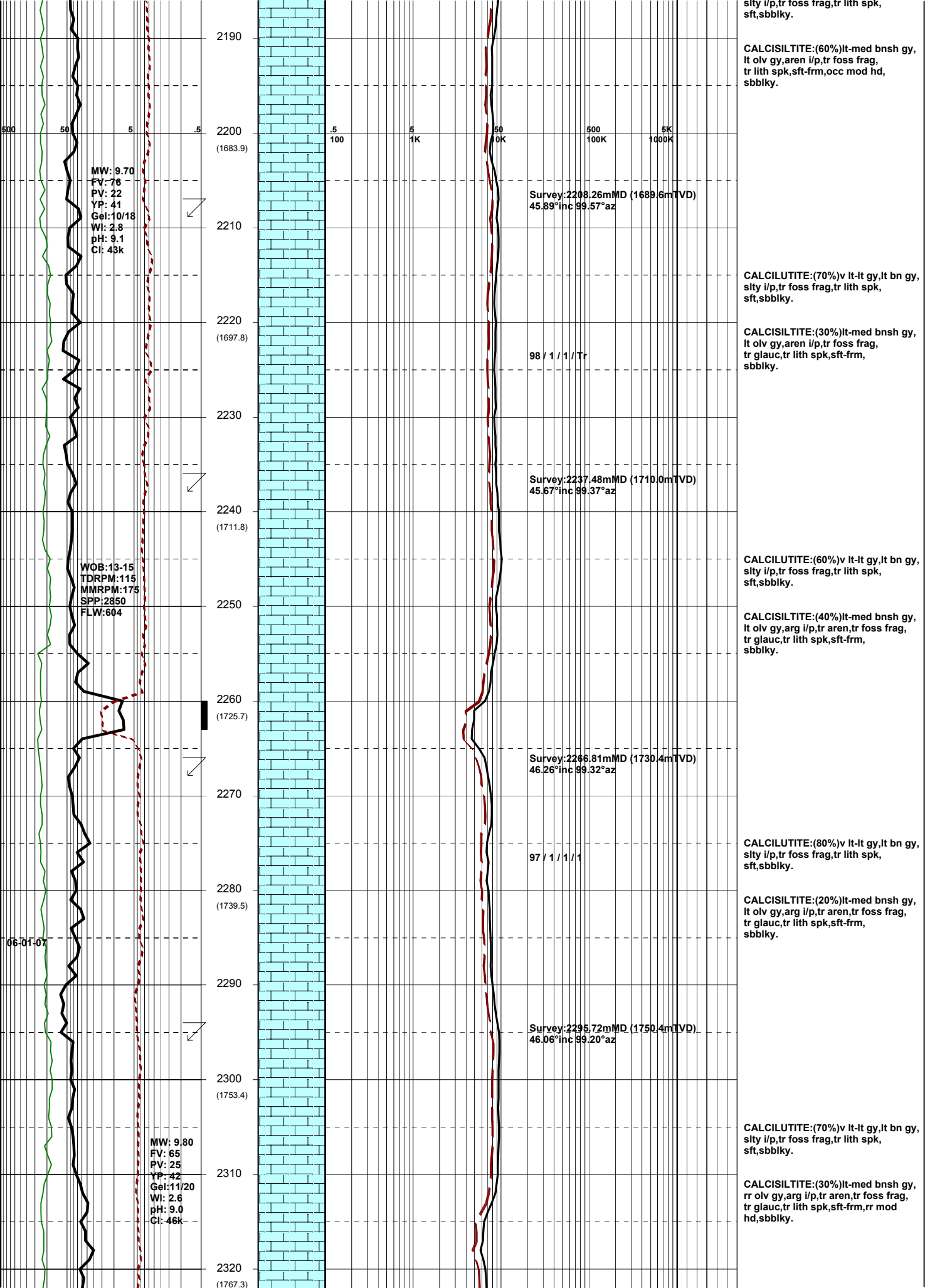
CALCILUTITE:(30%)lt-med bnsh gy,
 lt olv gy,aren i/p,tr foss frag,tr
 glauc spk,tr lith spk,frm-mod hd
 i/p,sbbkly.

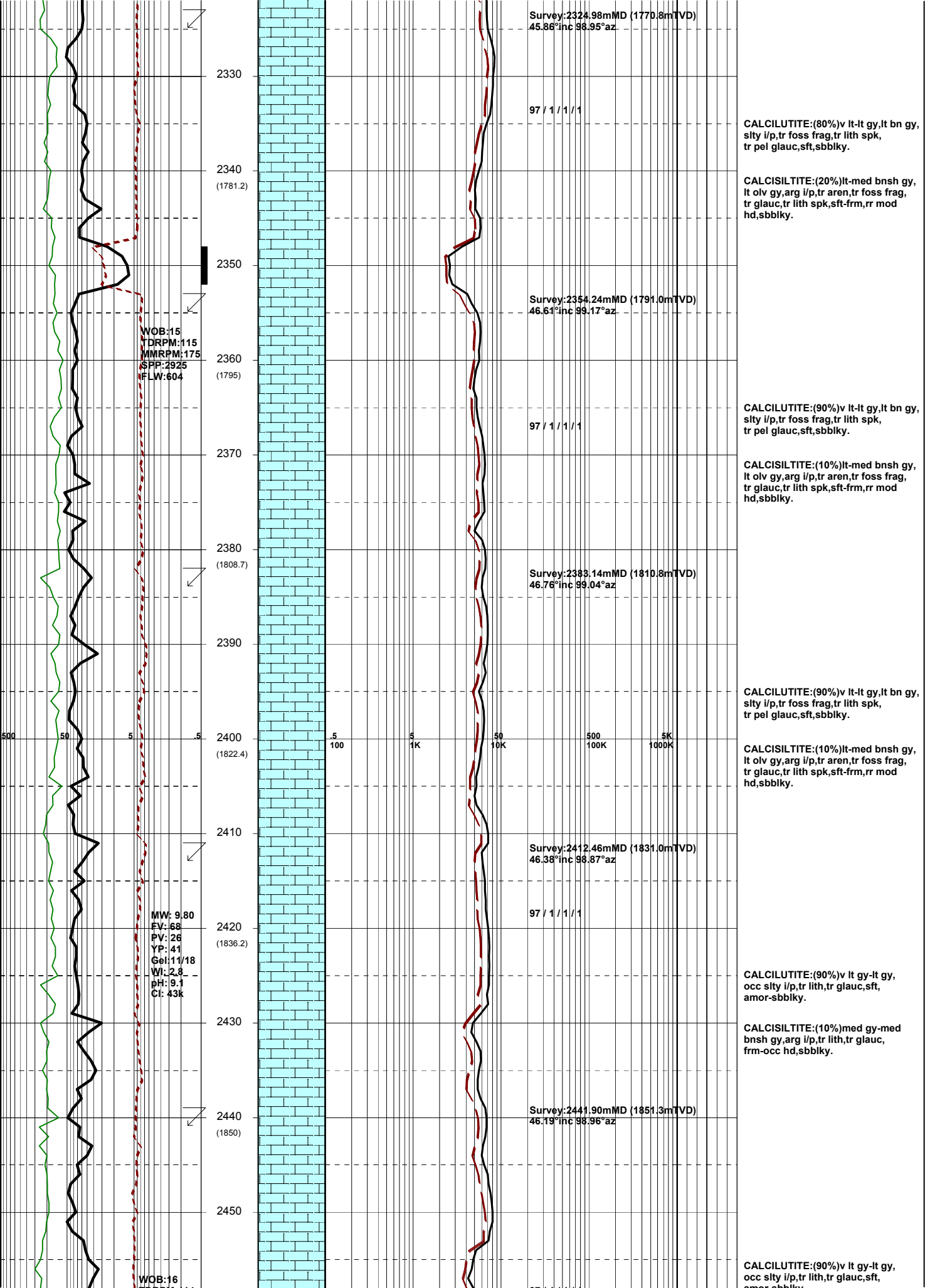
MW: 9.70
 FV: 72
 PV: 26
 YP: 40
 Gel: 10/21
 WI: 2.9
 pH: 9.2
 CI: 43k

05-01-07









TDRPM:114
MMRPM:176
SPP:3060
FLW:603

(1863.9)

2470

2480
(1877.7)

2490

2500
(1891.6)

2510

2520
(1905.5)

2530

2540
(1919.5)

2550

2560
(1933.5)

2570

2580
(1947.4)

2590

MW: 9.80
FV: 79
RV: 26
YP: 42
Gel:11/19
WI: 2.8
RH: 9.1
CI: 43k

WOB:16-18
TDRPM:114
MMRPM:176
SPP:3205
FLW:588

Survey:2471.01mMD (1871.5mTVD)
46.19°inc 99.05°az

Survey:2500.16mMD (1891.7mTVD)
46.00°inc 98.99°az

Survey:2529.32mMD (1912.0mTVD)
45.79°inc 98.47°az

Survey:2558.52mMD (1932.4mTVD)
45.49°inc 98.45°az

Survey:2586.28mMD (1951.8mTVD)
46.03°inc 98.46°az

97 / 1 / 1 / 1

96 / 2 / 1 / 1

96 / 2 / 1 / 1

Base of High Velocity Channel
2485.5mMDRT 1881.5mTVDRT
(-1852.1mTVDSS)

amor-sbbiky.
CALCISILTITE:(10%)med gy-med
bnsh gy,arg i/p,tr lith,tr glauc,
frm-occ hd,sbbiky.

CALCISILTITE:(70%)v lt gy-lt gy,
occ sity i/p,tr lith,tr glauc,sft,
amor-sbbiky.

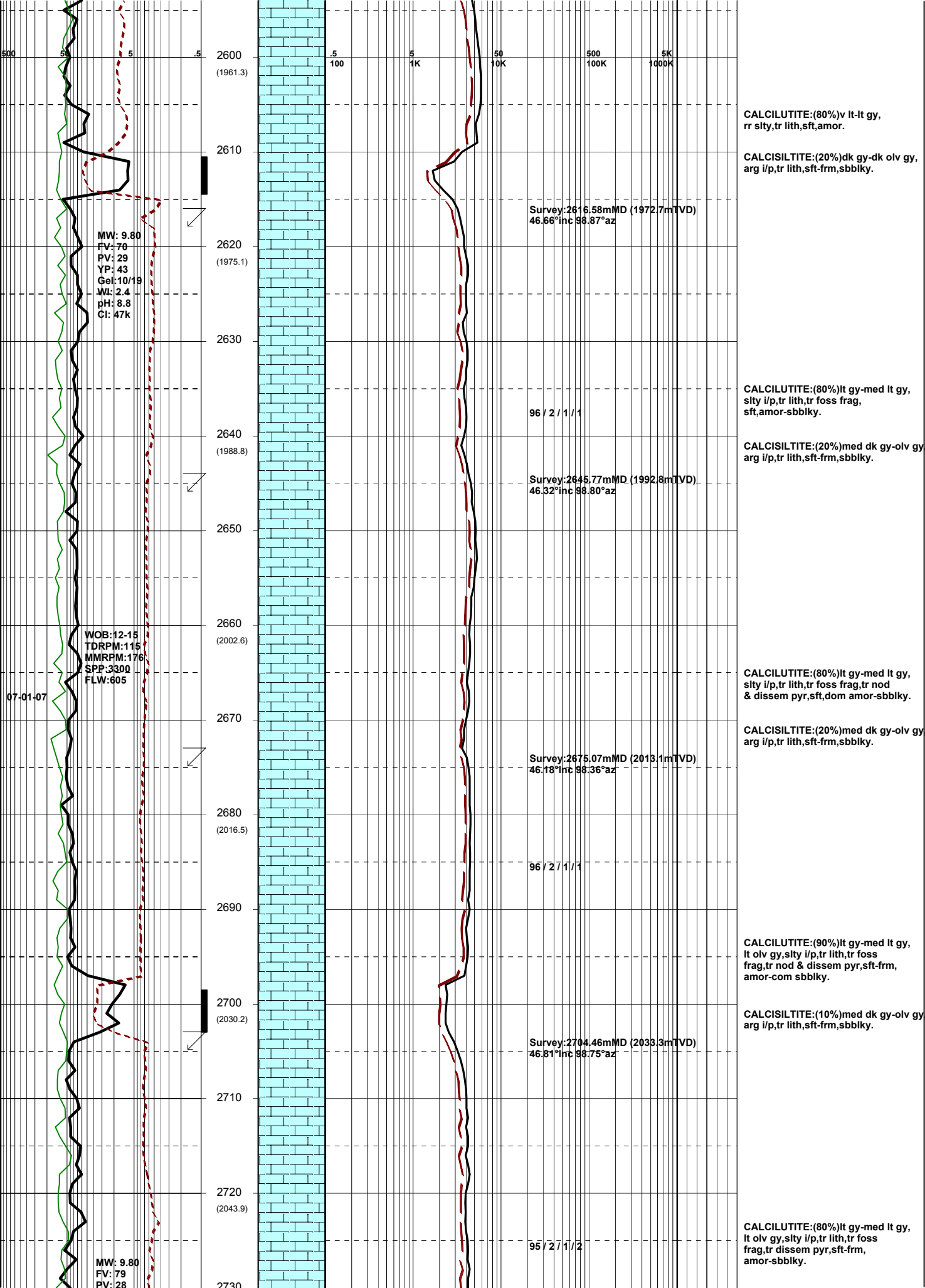
CALCISILTITE:(30%)med gy-med
bnsh gy,arg i/p,tr lith,tr glauc,
frm-occ hd,sbbiky.

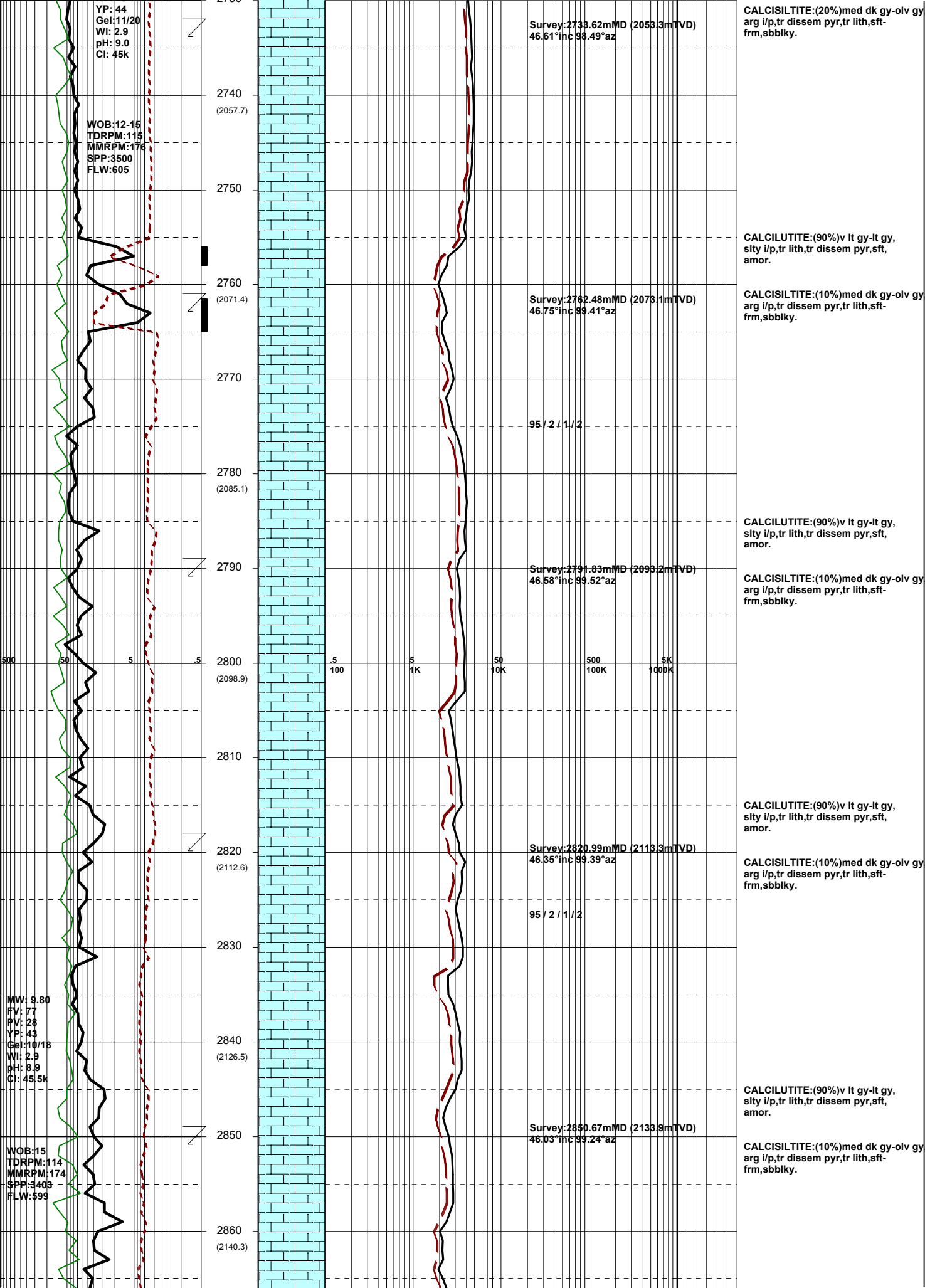
CALCISILTITE:(70%)v lt gy,
rr sity,tr lith,sft,amor.

CALCISILTITE:(30%)dk gy-dk olv gy,
arg i/p,tr lith,sft-frm,sbbiky.

CALCISILTITE:(70%)v lt gy,
rr sity,tr lith,sft,amor.

CALCISILTITE:(30%)dk gy-dk olv gy,
arg i/p,tr lith,sft-frm,sbbiky.





YP: 44
Gel: 11/20
WI: 2.9
pH: 9.0
Cl: 45k

WOB: 12-15
TDRPM: 115
MMRPM: 176
SPP: 3500
FLW: 605

Survey: 2733.62mMD (2053.3mTVD)
46.61°inc 98.49°az

CALCISILTITE:(20%)med dk gy-olv gy arg i/p,tr disseminated pyr,tr lith,sft-frn,sbbkly.

2740
(2057.7)

2750

2760
(2071.4)

Survey: 2762.48mMD (2073.1mTVD)
46.75°inc 99.41°az

CALCISILTITE:(90%)v lt gy-lt gy, stly i/p,tr lith,tr disseminated pyr,sft, amor.

CALCISILTITE:(10%)med dk gy-olv gy arg i/p,tr disseminated pyr,tr lith,sft-frn,sbbkly.

2770

95 / 2 / 1 / 2

2780
(2085.1)

CALCISILTITE:(90%)v lt gy-lt gy, stly i/p,tr lith,tr disseminated pyr,sft, amor.

2790

Survey: 2791.83mMD (2093.2mTVD)
46.58°inc 99.52°az

CALCISILTITE:(10%)med dk gy-olv gy arg i/p,tr disseminated pyr,tr lith,sft-frn,sbbkly.

2800
(2098.9)

5 5 50 500 5K
100 1K 10K 100K 1000K

2810

CALCISILTITE:(90%)v lt gy-lt gy, stly i/p,tr lith,tr disseminated pyr,sft, amor.

2820
(2112.6)

Survey: 2820.99mMD (2113.3mTVD)
46.35°inc 99.39°az

CALCISILTITE:(10%)med dk gy-olv gy arg i/p,tr disseminated pyr,tr lith,sft-frn,sbbkly.

2830

95 / 2 / 1 / 2

2840
(2126.5)

MW: 9.80
FV: 77
PV: 28
YP: 43
Gel: 10/18
WI: 2.9
pH: 8.9
Cl: 45.5k

CALCISILTITE:(90%)v lt gy-lt gy, stly i/p,tr lith,tr disseminated pyr,sft, amor.

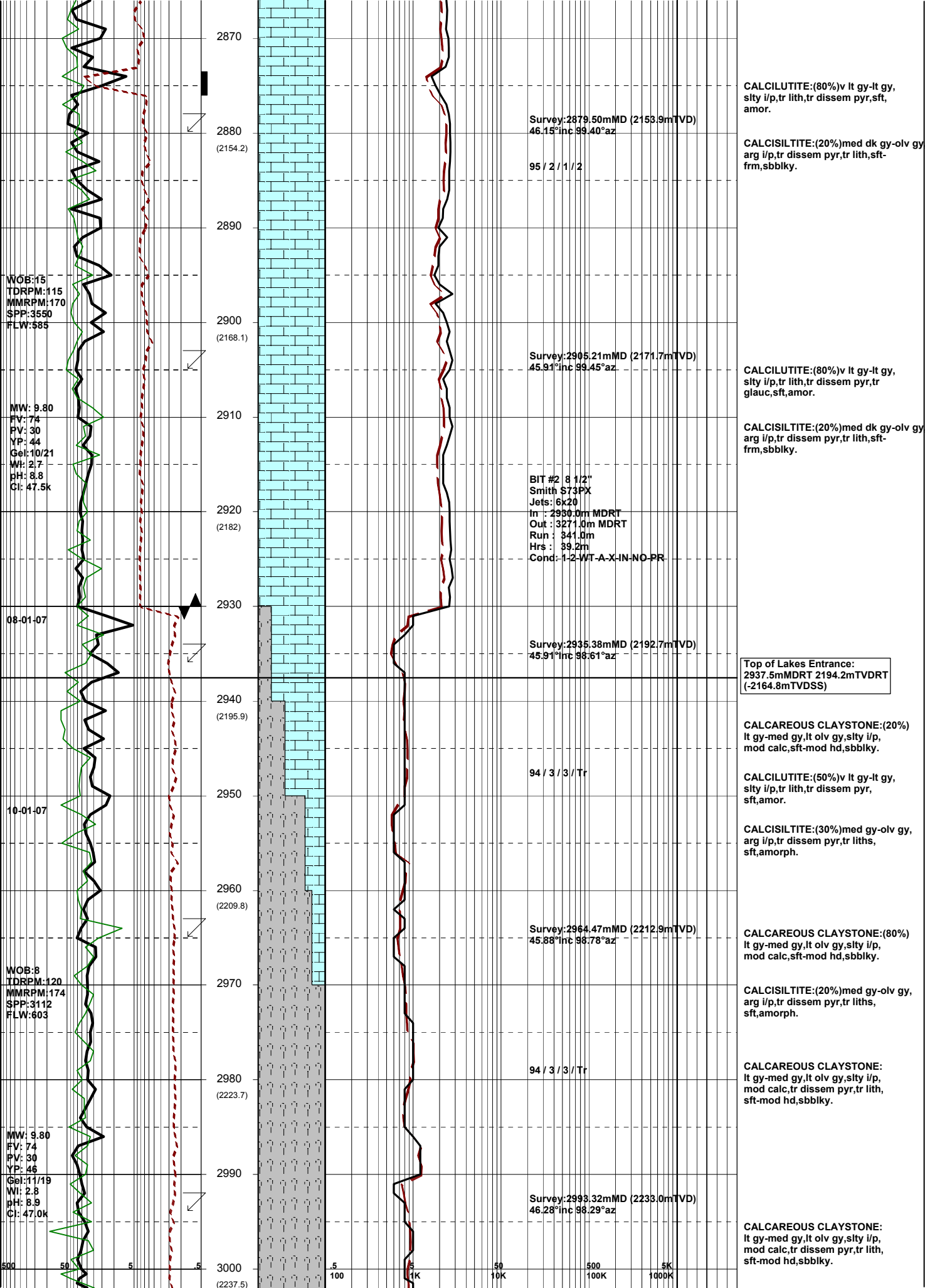
2850

Survey: 2850.67mMD (2133.9mTVD)
46.03°inc 99.24°az

CALCISILTITE:(10%)med dk gy-olv gy arg i/p,tr disseminated pyr,tr lith,sft-frn,sbbkly.

2860
(2140.3)

WOB: 15
TDRPM: 114
MMRPM: 174
SPP: 3403
FLW: 599



CALCILUTITE:(80%)v It gy-lt gy, stly i/p,tr dissep pyr,sft, amor.

CALCISILTITE:(20%)med dk gy-olv gy arg i/p,tr dissep pyr,tr lith,sft-frm,sbbkly.

Survey:2879.50mMD (2153.9mTVD)
46.15°inc 99.40°az

95 / 2 / 1 / 2

WOB:15
TDRPM:115
MMRPM:170
SPP:3550
FLW:585

MW: 9.80
FV: 74
PV: 30
YP: 44
Gel:10/21
WI: 2.7
pH: 8.8
CI: 47.5k

Survey:2905.21mMD (2171.7mTVD)
45.91°inc 99.45°az

CALCILUTITE:(80%)v It gy-lt gy, stly i/p,tr dissep pyr,tr glauc,sft,amor.

CALCISILTITE:(20%)med dk gy-olv gy arg i/p,tr dissep pyr,tr lith,sft-frm,sbbkly.

BIT #2 8 1/2"
Smith S73PX
Jets: 6x20
In : 2930.0m MDRT
Out : 3271.0m MDRT
Run : 341.0m
Hrs : 39.2m
Cond: 1-2-WT-A-X-IN-NO-PR

08-01-07

Survey:2935.38mMD (2192.7mTVD)
45.91°inc 98.61°az

Top of Lakes Entrance:
2937.5mMDRT 2194.2mTVDRT
(-2164.8mTVDSS)

CALCAREOUS CLAYSTONE:(20%) It gy-med gy,lt olv gy,stly i/p, mod calc,sft-mod hd,sbbkly.

94 / 3 / 3 / Tr

10-01-07

CALCILUTITE:(50%)v It gy-lt gy, stly i/p,tr lith,tr dissep pyr, sft,amor.

CALCISILTITE:(30%)med gy-olv gy, arg i/p,tr dissep pyr,tr liths, sft,amorph.

Survey:2964.47mMD (2212.9mTVD)
45.88°inc 98.78°az

CALCAREOUS CLAYSTONE:(80%) It gy-med gy,lt olv gy,stly i/p, mod calc,sft-mod hd,sbbkly.

WOB:8
TDRPM:120
MMRPM:174
SPP:3112
FLW:603

MW: 9.80
FV: 74
PV: 30
YP: 46
Gel:11/19
WI: 2.8
pH: 8.9
CI: 47.0k

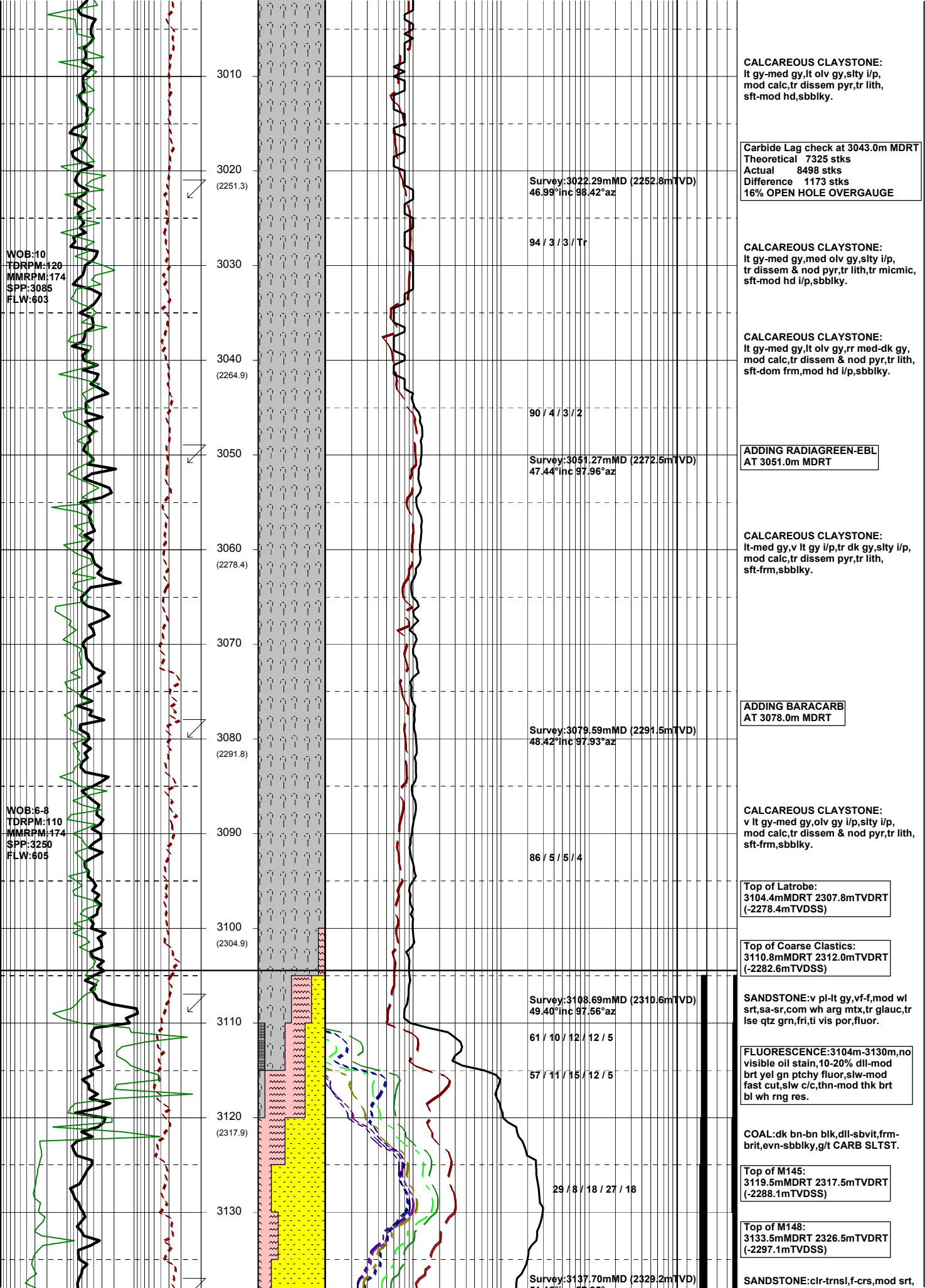
94 / 3 / 3 / Tr

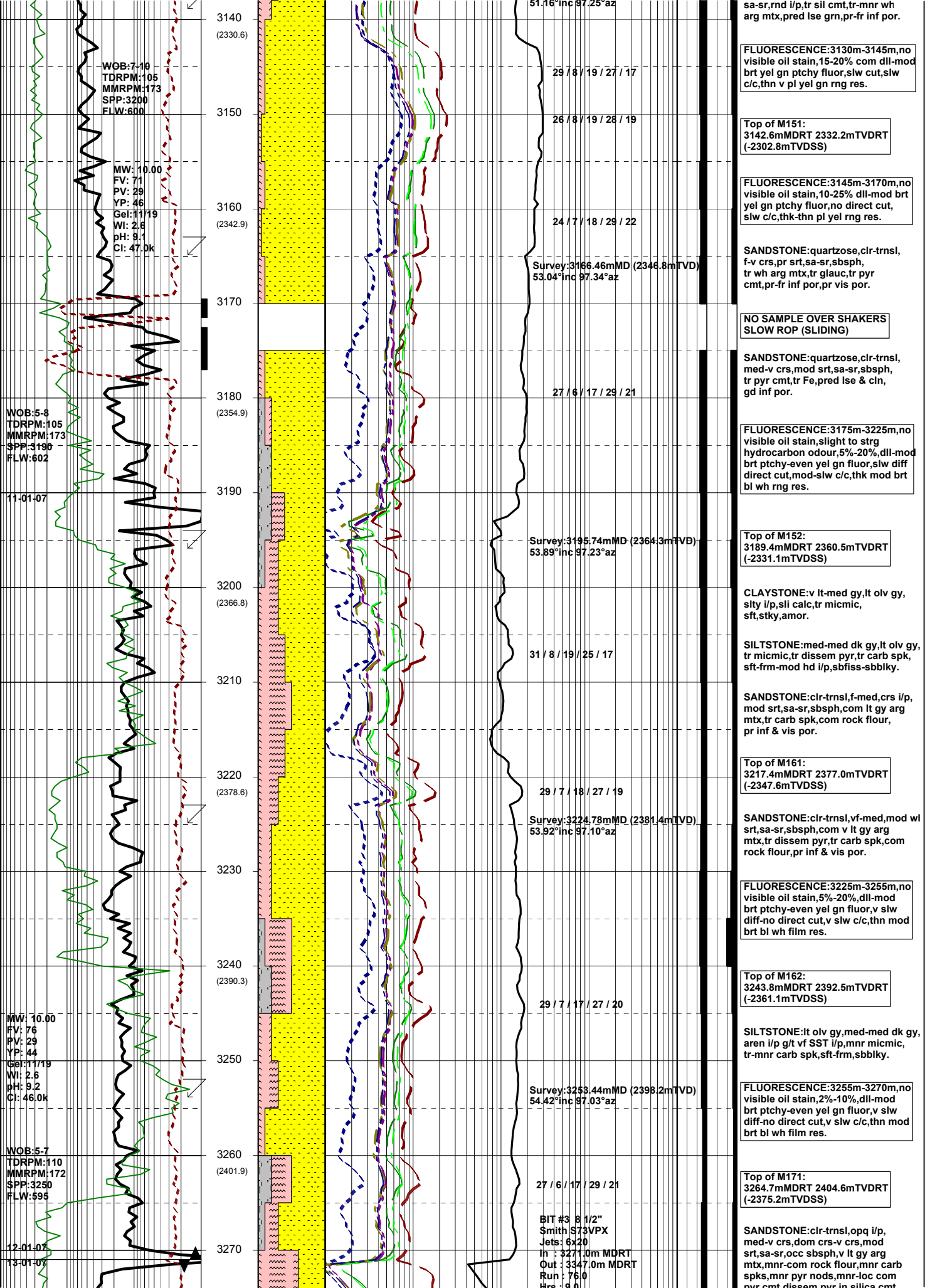
CALCISILTITE:(20%)med gy-olv gy, arg i/p,tr dissep pyr,tr liths, sft,amorph.

CALCAREOUS CLAYSTONE: It gy-med gy,lt olv gy,stly i/p, mod calc,tr dissep pyr,tr lith, sft-mod hd,sbbkly.

Survey:2993.32mMD (2233.0mTVD)
46.28°inc 98.29°az

CALCAREOUS CLAYSTONE: It gy-med gy,lt olv gy,stly i/p, mod calc,tr dissep pyr,tr lith, sft-mod hd,sbbkly.





WOB:7-10
TDRPM:105
MMRPM:173
SPP:3200
FLW:600

MW: 10.00
FV: 71
PV: 29
YP: 46
Gel: 11/19
WL: 2.6
pH: 9.1
Cl: 47.0k

WOB:5-8
TDRPM:105
MMRPM:173
SPP:3190
FLW:602

MW: 10.00
FV: 76
PV: 29
YP: 44
Gel: 11/19
WL: 2.6
pH: 9.2
Cl: 46.0k

WOB:5-7
TDRPM:110
MMRPM:172
SPP:3250
FLW:595

12-01-07
13-01-09

3140 (2330.6)
3150
3160 (2342.9)
3170
3180 (2354.9)
3190
3200 (2366.8)
3210
3220 (2378.6)
3230
3240 (2390.3)
3250
3260 (2401.9)
3270

51.16° inc 97.25° az
29 / 8 / 19 / 27 / 17
26 / 8 / 19 / 28 / 19
24 / 7 / 18 / 29 / 22
Survey: 3166.46mMD (2346.8mTVD)
53.04° inc 97.34° az
27 / 6 / 17 / 29 / 21
Survey: 3195.74mMD (2364.3mTVD)
53.89° inc 97.23° az
31 / 8 / 19 / 25 / 17
29 / 7 / 18 / 27 / 19
Survey: 3224.78mMD (2381.4mTVD)
53.92° inc 97.10° az
29 / 7 / 17 / 27 / 20
Survey: 3253.44mMD (2398.2mTVD)
54.42° inc 97.03° az
27 / 6 / 17 / 29 / 21
BIT #3 8 1/2"
Smith S73VPX
Jets: 6x20
In : 3271.0m MDRT
Out : 3347.0m MDRT
Run : 76.0
Hrs : 9.0

sa-sr,md i/p, tr sil cmt, tr-mnr wh arg mt, pred lse gm, pr-fr inf por.

FLUORESCENCE: 3130m-3145m, no visible oil stain, 15-20% com dll-mod brt yel gn ptchy floor, slw cut, slw c/c, thn v pl yel gn rng res.

Top of M151:
3142.6mMDRT 2332.2mTVDRT
(-2302.8mTVDSS)

FLUORESCENCE: 3145m-3170m, no visible oil stain, 10-25% dll-mod brt yel gn ptchy floor, no direct cut, slw c/c, thk-thn pl yel rng res.

SANDSTONE: quartzose, clr-trnsl, f-v crs, pr srt, sa-sr, sbsph, tr wh arg mt, tr glauc, tr pyr cmt, pr-fr inf por, pr vis por.

NO SAMPLE OVER SHAKERS SLOW ROP (SLIDING)

SANDSTONE: quartzose, clr-trnsl, med-v crs, mod srt, sa-sr, sbsph, tr pyr cmt, tr Fe, pred lse & clin, gd inf por.

FLUORESCENCE: 3175m-3225m, no visible oil stain, slight to strg hydrocarbon odour, 5%-20%, dll-mod brt ptchy-even yel gn floor, slw diff direct cut, mod-slw c/c, thk mod brt bl wh rng res.

Top of M152:
3189.4mMDRT 2360.5mTVDRT
(-2331.1mTVDSS)

CLAYSTONE: lt-med gy, lt olv gy, stly i/p, sli calc, tr micmic, sft, stky, amor.

SILTSTONE: med-med dk gy, lt olv gy, tr micmic, tr dissem pyr, tr carb spk, sft-frm-mod hd i/p, sbfiss-sbbiky.

SANDSTONE: clr-trnsl, f-med, crs i/p, mod srt, sa-sr, sbsph, com lt gy arg mt, tr carb spk, com rock flour, pr inf & vis por.

Top of M161:
3217.4mMDRT 2377.0mTVDRT
(-2347.6mTVDSS)

SANDSTONE: clr-trnsl, vf-med, mod vl srt, sa-sr, sbsph, com v lt gy arg mt, tr carb spk, com rock flour, pr inf & vis por.

FLUORESCENCE: 3225m-3255m, no visible oil stain, 5%-20%, dll-mod brt ptchy-even yel gn floor, v slw diff-no direct cut, v slw c/c, thn mod brt bl wh film res.

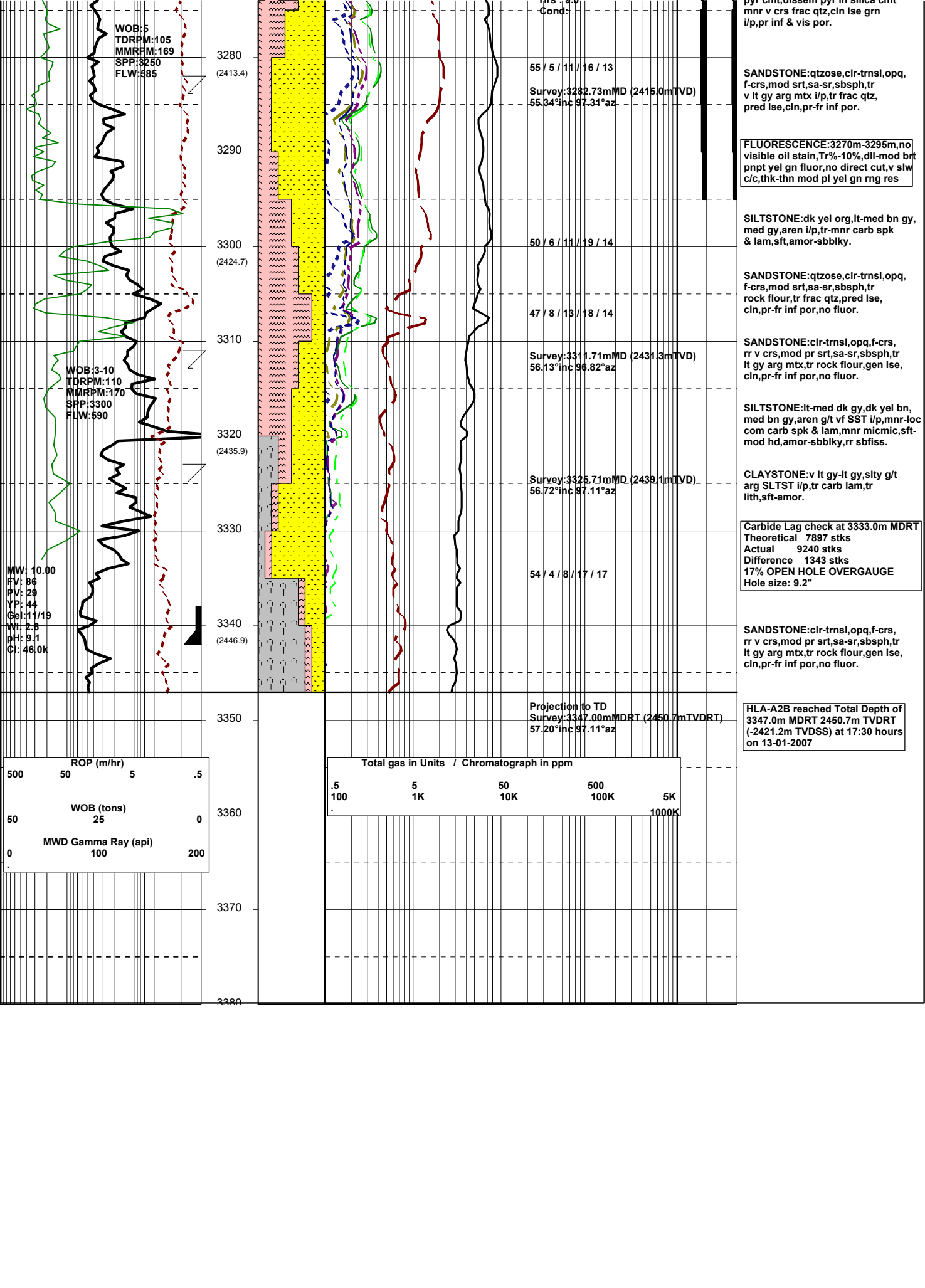
Top of M162:
3243.8mMDRT 2392.5mTVDRT
(-2361.1mTVDSS)

SILTSTONE: lt olv gy, med-med dk gy, aren i/p g/t vf SST i/p, mnr micmic, tr-mnr carb spk, sft-frm, sbbiky.

FLUORESCENCE: 3255m-3270m, no visible oil stain, 2%-10%, dll-mod brt ptchy-even yel gn floor, v slw diff-no direct cut, v slw c/c, thn mod brt bl wh film res.

Top of M171:
3264.7mMDRT 2404.6mTVDRT
(-2375.2mTVDSS)

SANDSTONE: clr-trnsl, opq i/p, med-v crs, dom crs-v crs, mod srt, sa-sr, occ sbsph, v lt gy arg mt, mnr-com rock flour, mnr carb spks, mnr pyr nods, mnr-loc com pyr cmt dissem pyr, in silica cmt



WOB: 5
TDRPM: 105
MMRPM: 169
SPP: 3250
FLW: 585

3280
(2413.4)

55 / 5 / 11 / 16 / 13

Survey: 3282.73mMD (2415.0mTVD)
55.34° inc 97.31° az

SANDSTONE: qtzose, clr-trnsl, opq, f-crs, mod srt, sa-sr, sbsph, tr v lt gy arg mtx i/p, tr frac qtz, pred lse, cln, pr-fr inf por.

FLUORESCENCE: 3270m-3295m, no visible oil stain, Tr%-10%, dll-mod brt pnpt yel gn fluor, no direct cut, v slw c/c, thk-thn mod pl yel gn rng res

3290

3300
(2424.7)

50 / 6 / 11 / 19 / 14

SILTSTONE: dk yel org, lt-med bn gy, med gy, aren i/p, tr-mnr carb spk & lam, sft, amor-sbbkly.

SANDSTONE: qtzose, clr-trnsl, opq, f-crs, mod srt, sa-sr, sbsph, tr rock flour, tr frac qtz, pred lse, cln, pr-fr inf por, no fluor.

3310

47 / 8 / 13 / 18 / 14

Survey: 3311.71mMD (2431.3mTVD)
56.13° inc 96.82° az

SANDSTONE: clr-trnsl, opq, f-crs, rr v crs, mod pr srt, sa-sr, sbsph, tr lt gy arg mtx, tr rock flour, gen lse, cln, pr-fr inf por, no fluor.

SILTSTONE: lt-med dk gy, dk yel bn, med bn gy, aren g/t vf SST i/p, mnr-loc com carb spk & lam, mnr micnic, sft-mod hd, amor-sbbkly, rr sbfiss.

3320
(2435.9)

Survey: 3325.71mMD (2439.1mTVD)
56.72° inc 97.11° az

CLAYSTONE: v lt gy-lt gy, sily g/t arg SLTST i/p, tr carb lam, tr lith, sft-amor.

Carbide Lag check at 3333.0m MDRT
Theoretical 7897 stks
Actual 9240 stks
Difference 1343 stks
17% OPEN HOLE OVERGAUGE
Hole size: 9.2"

3330

54 / 4 / 8 / 17 / 17

SANDSTONE: clr-trnsl, opq, f-crs, rr v crs, mod pr srt, sa-sr, sbsph, tr lt gy arg mtx, tr rock flour, gen lse, cln, pr-fr inf por, no fluor.

3340
(2446.9)

Projection to TD
Survey: 3347.00mMDRT (2450.7mTVDRT)
57.20° inc 97.11° az

HLA-A2B reached Total Depth of 3347.0m MDRT 2450.7m TVDRT (-2421.2m TVDSS) at 17:30 hours on 13-01-2007

3350

3360

3370

3380

ROP (m/hr)
500 50 5 .5

WOB (tons)
50 25 0

MWD Gamma Ray (api)
0 100 200

Total gas in Units / Chromatograph in ppm

.5	5	50	500	5K
100	1K	10K	100K	1000K