

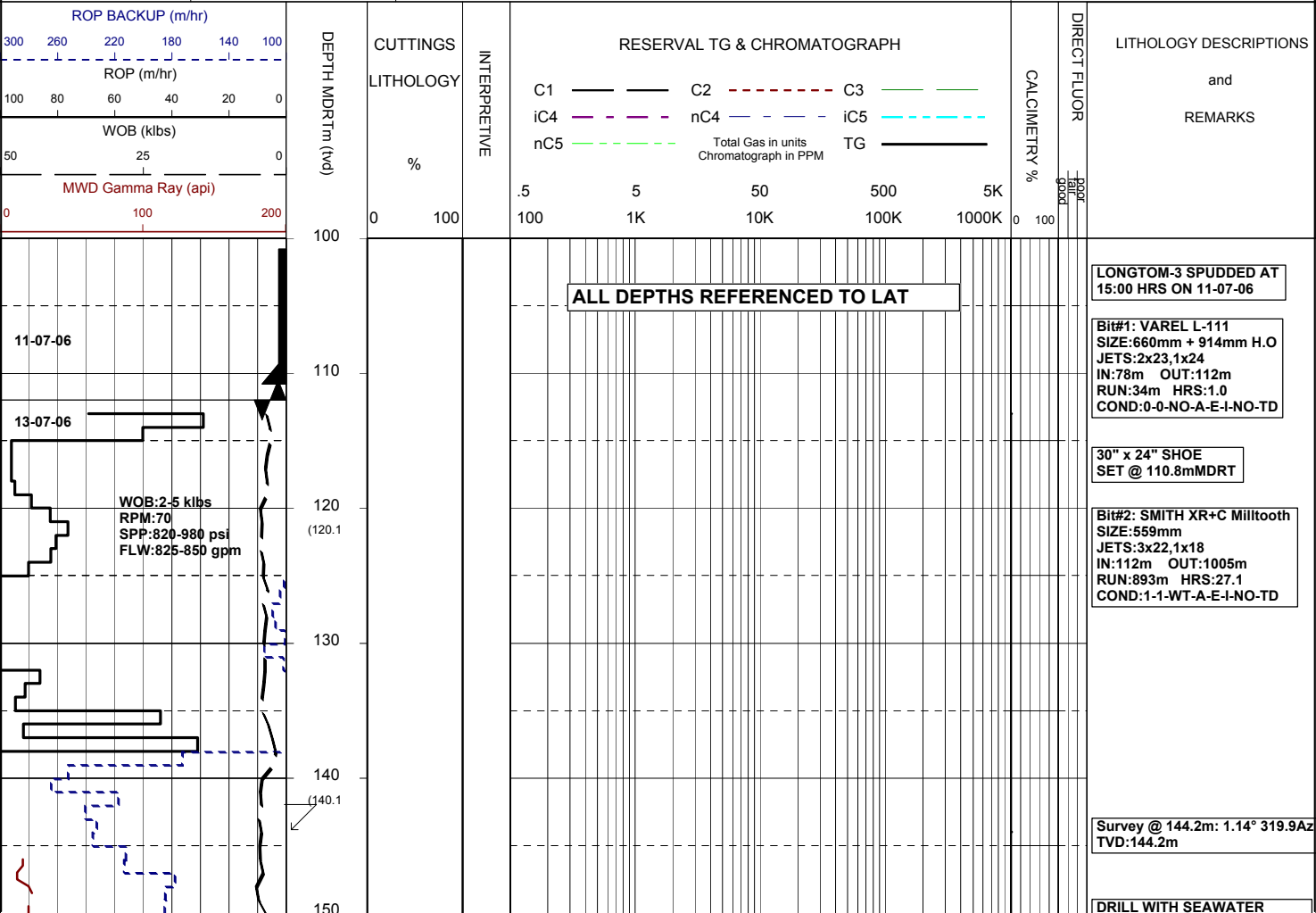


MASTERLOG LONGTOM-3

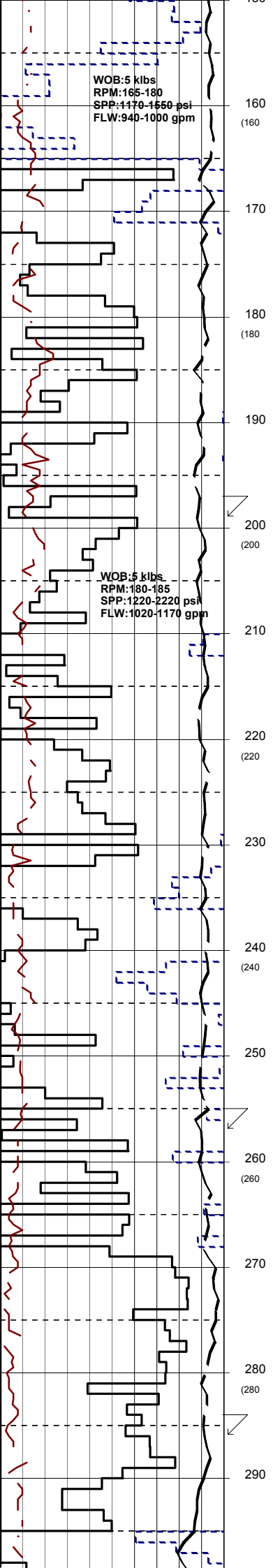


GENERAL	POSITION	HOLE / CASING INFO	DATE / DEPTH	ENGINEERS
Country : AUSTRALIA Permit : VIC/P54 Field : LONGTOM Basin : GIPPSLAND Well Type : APPRAISAL Rig: OCEAN PATRIOT	Latitude : 38°05'34.774"S Longitude : 148°18'41.479"E UTM Co-ord X (m E): 615005 UTM Co-ord Y (m N): 5783055 RT to MSL (m): 21.5 RT to Sea Bed (m): 78.2	914mm(36") hole to: 112.0m 559mm(22") hole to: 1005m 241mm(9 1/2") hole to: m 762mm(30") Cond. to: 110.8m 406mm(16") Csg. to: 995.3m	Spud Date : 11-07-2006 Total Depth Date : XX-09-2006 Total Depth (mMDRT): m True Vertical Depth (mTVDSS): m Log Scale : 1/ 500 Final Status : ?	T. N. KYAW F. MAKHAD A. DUNN D. ADDERLEY

ABBREVIATIONS	LITHOLOGY LEGEND	ENGINEERING LEGEND																																																						
<table style="width: 100%;"> <tr><td>MW Mud Weight</td><td>WOB Weight on Bit (klbs)</td></tr> <tr><td>FV Funnel Viscosity</td><td>RPM Rotations Per Min</td></tr> <tr><td>PV Plastic Viscosity</td><td>FLW Flow Rate (gpm)</td></tr> <tr><td>YP Yield Point</td><td>SPP Pump Pressure (psi)</td></tr> <tr><td>Gel Gel Strength</td><td>RR Re-Run Bit</td></tr> <tr><td>WL Water Loss</td><td>TG Trip Gas</td></tr> <tr><td>KCl Potassium Chloride</td><td>CG Connection Gas</td></tr> <tr><td>Cl Chlorides</td><td>BG Background Gas</td></tr> <tr><td>Incl Inclination</td><td>DGP Drilled Gas Peak</td></tr> <tr><td>Az Azimuth</td><td>MM Mud Motor</td></tr> </table>	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)	Gel Gel Strength	RR Re-Run Bit	WL Water Loss	TG Trip Gas	KCl Potassium Chloride	CG Connection Gas	Cl Chlorides	BG Background Gas	Incl Inclination	DGP Drilled Gas Peak	Az Azimuth	MM Mud Motor	<table style="width: 100%;"> <tr><td> Claystone</td><td> Marl</td><td> Lithic Fragment</td><td> Cement</td></tr> <tr><td> Siltstone</td><td> Clay, Limestone</td><td> Foraminifera</td><td> Glauconite</td></tr> <tr><td> Shale</td><td> Limestone</td><td> Fossils</td><td> Pyrite</td></tr> <tr><td> Fine SST</td><td> Dolomite</td><td> Bryozoa</td><td> Iron Minerals</td></tr> <tr><td> Medium SST</td><td> Coal</td><td> Sponges</td><td> Mica</td></tr> <tr><td> Coarse SST</td><td> Arg. SST</td><td> Brachiopoda</td><td> Carb Fragments</td></tr> </table>	Claystone	Marl	Lithic Fragment	Cement	Siltstone	Clay, Limestone	Foraminifera	Glauconite	Shale	Limestone	Fossils	Pyrite	Fine SST	Dolomite	Bryozoa	Iron Minerals	Medium SST	Coal	Sponges	Mica	Coarse SST	Arg. SST	Brachiopoda	Carb Fragments	<table style="width: 100%;"> <tr><td> Shoe</td><td> DOLOMITE</td></tr> <tr><td> Deviation survey</td><td> FIT</td></tr> <tr><td> DST</td><td> Mud loss</td></tr> <tr><td> TEST</td><td> Mud gain</td></tr> <tr><td> Sidewall Core</td><td> Core</td></tr> </table>	Shoe	DOLOMITE	Deviation survey	FIT	DST	Mud loss	TEST	Mud gain	Sidewall Core	Core
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AND HI-VIS SWEEPS
RETURNS TO THE SEAFLOOR.

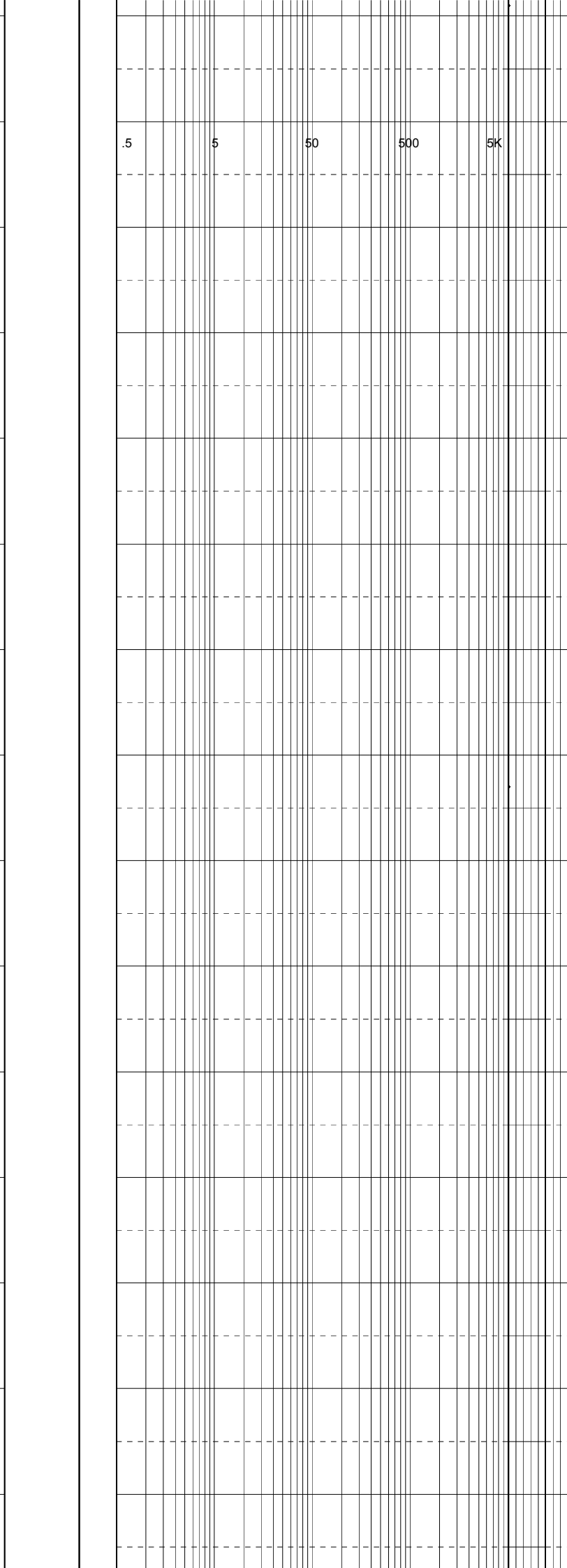
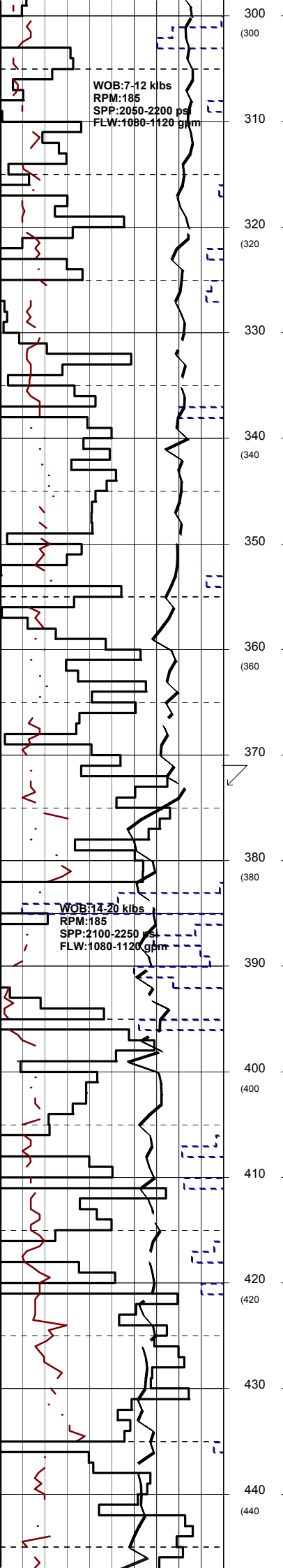


Survey @ 199.1m: 1.01° 317.8Az
TVD: 199.1m

DRILL WITH SEAWATER
AND HI-VIS SWEEPS
RETURNS TO THE SEAFLOOR.

Survey @ 256.9m: 1.02° 314.1Az
TVD: 256.9m

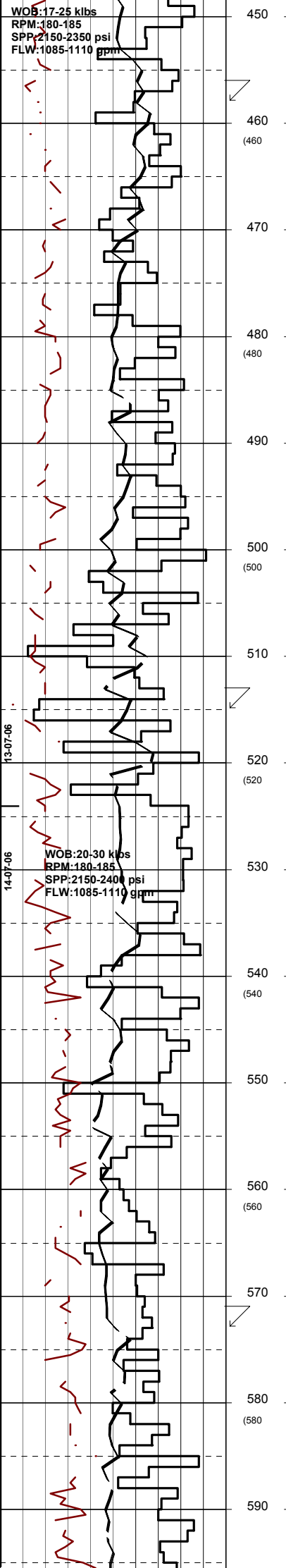
Survey @ 285.5m: 0.77° 322.6Az
TVD: 285.5m



DRILL WITH SEAWATER
 AND HI-VIS SWEEPS
 RETURNS TO THE SEAFLOOR.

Survey @ 373.3m: 0.37° 298.4Az
 TVD: 373.3m

DRILL WITH SEAWATER
 AND HI-VIS SWEEPS
 RETURNS TO THE SEAFLOOR.



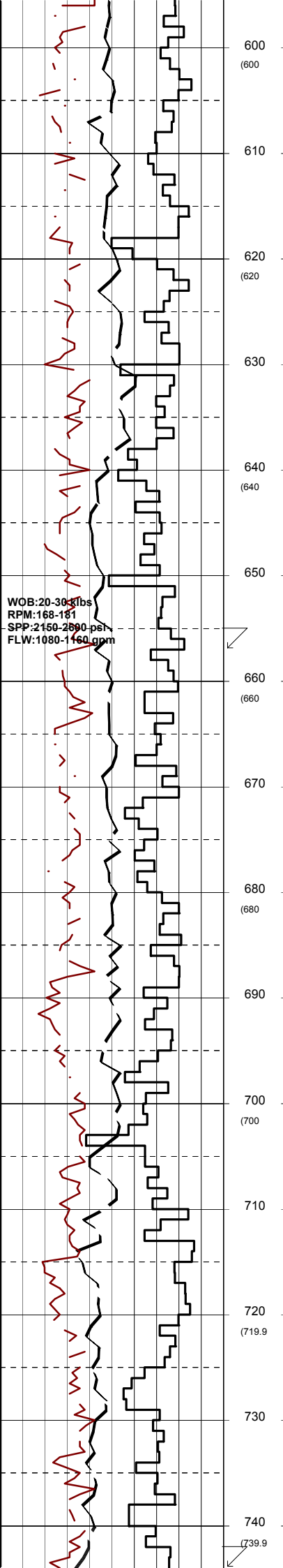
.5 5 50 500 5K

Survey @ 457.6m: 0.63° 340.7Az
TVD: 457.6m

Survey @ 514.7m: 0.25° 238.8Az
TVD: 514.6m

DRILL WITH SEAWATER
AND HI-VIS SWEEPS
RETURNS TO THE SEAFLOOR.

Survey @ 573.4m: 0.44° 72.2Az
TVD: 573.3m



600
(600)

610

620
(620)

630

640
(640)

650

660
(660)

670

680
(680)

690

700
(700)

710

720
(719.9)

730

740
(739.9)

.5 5 50 500 5K

**DRILL WITH SEAWATER
 AND HI-VIS SWEEPS
 RETURNS TO THE SEAFLOOR.**

Survey @ 657.5m: 0.63° 5.6Az
 TVD: 657.4m

Survey @ 744.2m: 1.18° 5.2Az

TVD:744.1m

DRILL WITH SEAWATER AND HI-VIS SWEEPS RETURNS TO THE SEAFLOOR.

.5 5 50 500 5K

WOB:22-33 klbs
RPM:157-182
SPP:2350-2580 psi
FLW:1120-1145 gpm

750
760 (759.9)
770
780 (779.9)
790
800 (799.9)
810
820 (819.9)
830
840 (839.9)
850
860 (859.9)
870
880 (879.9)
890

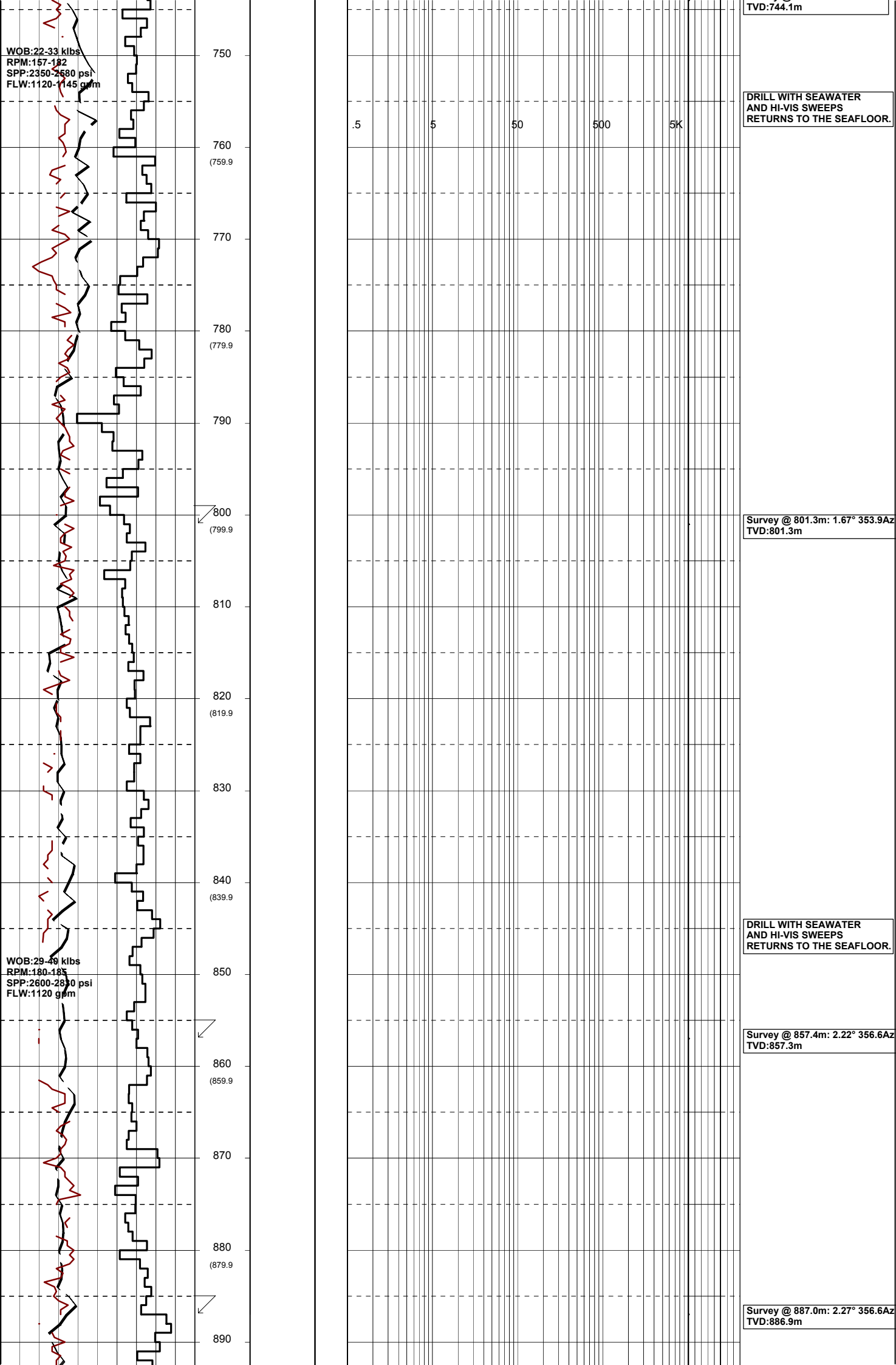
Survey @ 801.3m: 1.67° 353.9Az
TVD:801.3m

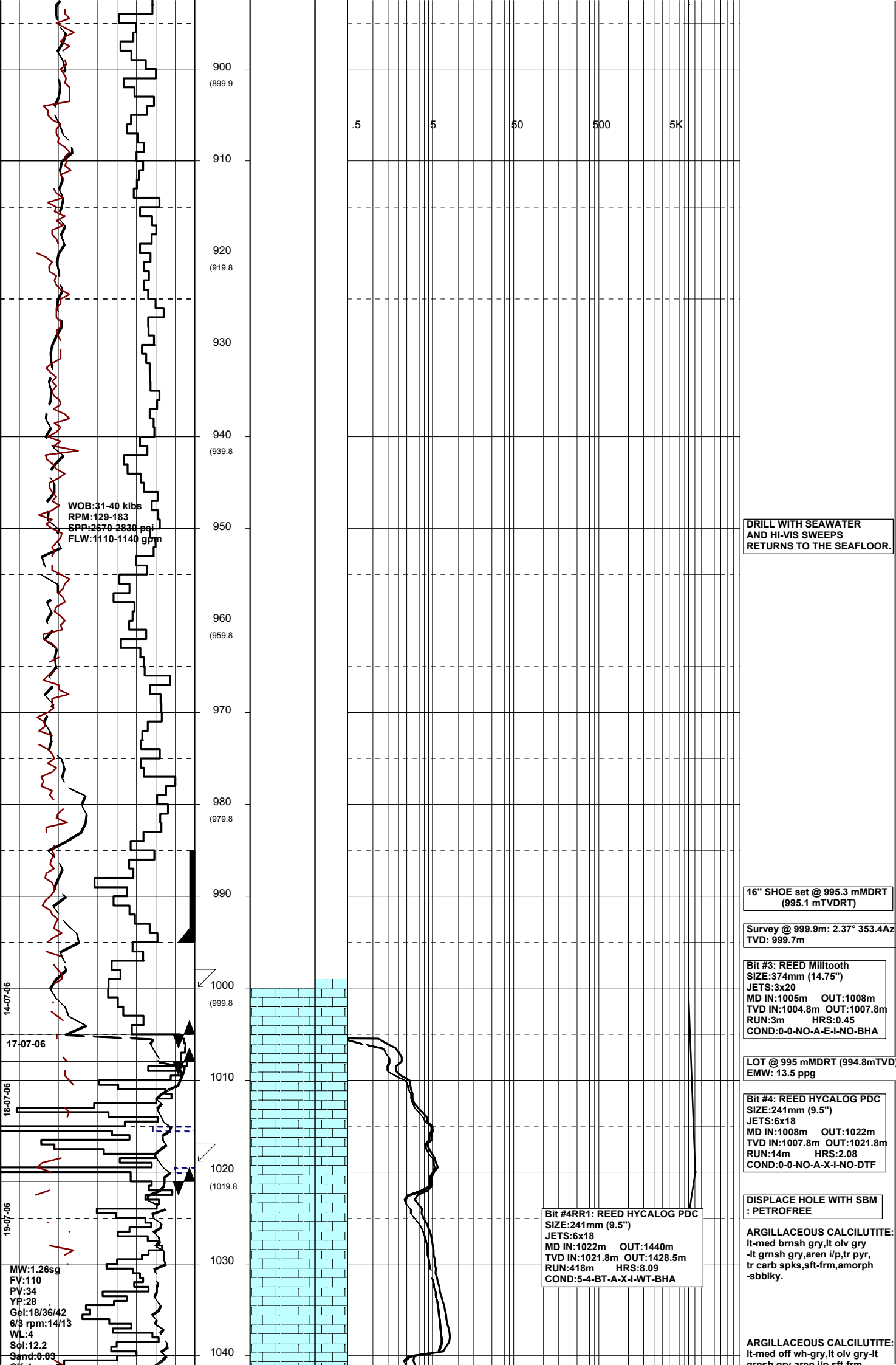
WOB:29-48 klbs
RPM:180-185
SPP:2600-2830 psi
FLW:1120 gpm

DRILL WITH SEAWATER AND HI-VIS SWEEPS RETURNS TO THE SEAFLOOR.

Survey @ 857.4m: 2.22° 356.6Az
TVD:857.3m

Survey @ 887.0m: 2.27° 356.6Az
TVD:886.9m





900 (899.9)
 910
 920 (919.8)
 930
 940 (939.8)
 950
 960 (959.8)
 970
 980 (979.8)
 990
 1000 (999.8)
 1010
 1020 (1019.8)
 1030
 1040

.5 5 50 500 5K

WOB:31-40 klbs
 RPM:129-183
 SPP:2670-2830 psi
 FLW:1110-1140 gpm

DRILL WITH SEAWATER AND HI-VIS SWEEPS RETURNS TO THE SEAFLOOR.

16" SHOE set @ 995.3 mMDRT (995.1 mTVDRT)

Survey @ 999.9m: 2.37° 353.4Az
 TVD: 999.7m

Bit #3: REED Milltooth
 SIZE:374mm (14.75")
 JETS:3x20
 MD IN:1005m OUT:1008m
 TVD IN:1004.8m OUT:1007.8m
 RUN:3m HRS:0.45
 COND:0-0-NO-A-E-I-NO-BHA

LOT @ 995 mMDRT (994.8mTVD)
 EMM: 13.5 ppg

Bit #4: REED HYCALOG PDC
 SIZE:241mm (9.5")
 JETS:6x18
 MD IN:1008m OUT:1022m
 TVD IN:1007.8m OUT:1021.8m
 RUN:14m HRS:2.08
 COND:0-0-NO-A-X-I-NO-DTF

Bit #4RR1: REED HYCALOG PDC
 SIZE:241mm (9.5")
 JETS:6x18
 MD IN:1022m OUT:1440m
 TVD IN:1021.8m OUT:1428.5m
 RUN:418m HRS:8.09
 COND:5-4-BT-A-X-I-WT-BHA

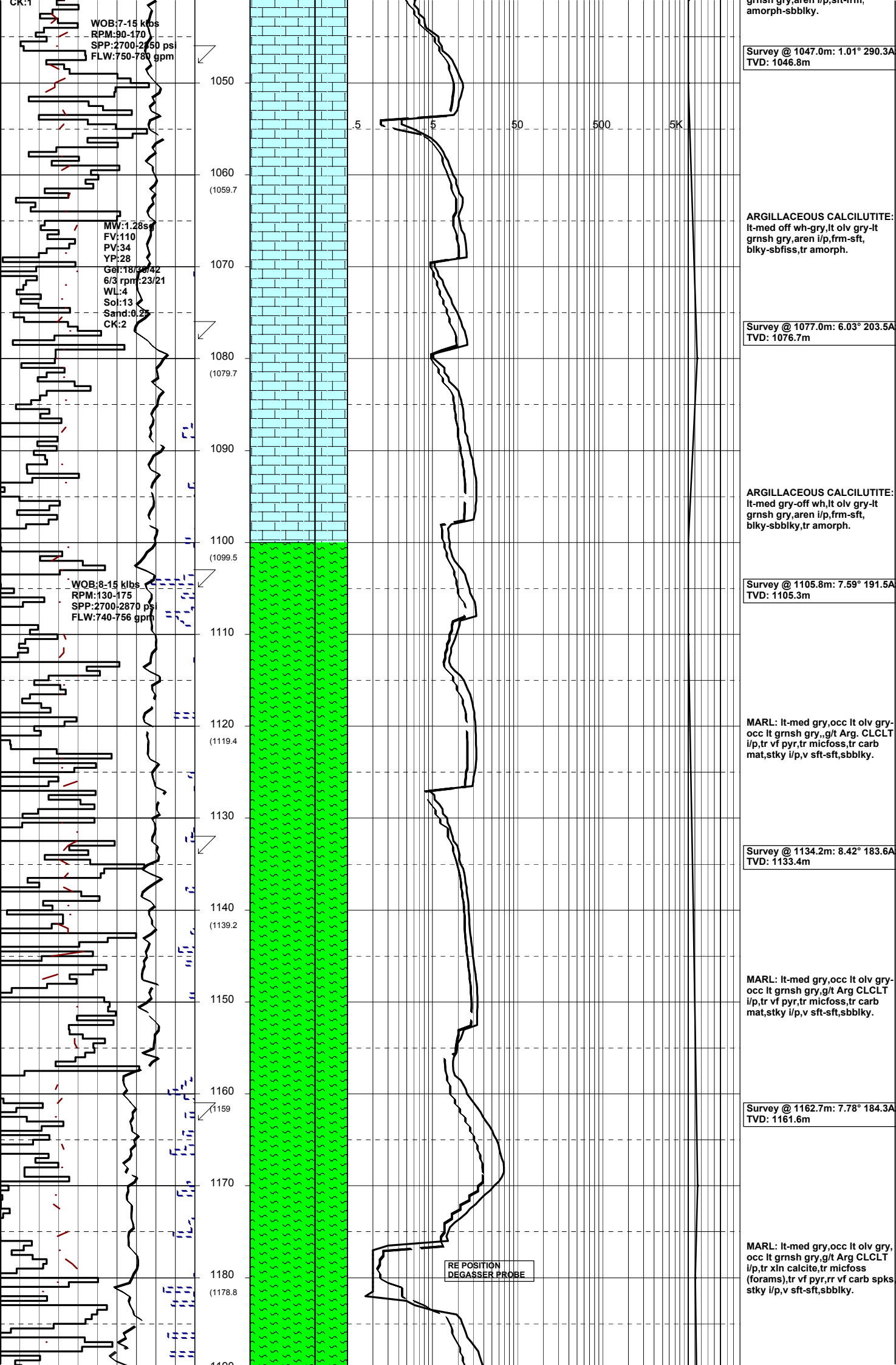
DISPLACE HOLE WITH SBM : PETROFREE

ARGILLACEOUS CALCILUTITE:
 lt-med brnsh gry,lt olv gry
 -lt grnsh gry,aren i/p,tr pyr,
 tr carb spks,sft frm,amorph
 -sbbkly.

ARGILLACEOUS CALCILUTITE:
 lt-med off wh-gry,lt olv gry-lt
 grnsh any aren i/p sft frm

14-07-06
 17-07-06
 18-07-06
 19-07-06

MW:1.26sg
 FV:110
 PV:34
 YP:28
 Gel:18/36/42
 6/3 rpm:14/13
 WL:4
 Sol:12.2
 Sand:0.03



WOB:7-15 klbs
 RPM:90-170
 SPP:2700-2850 psi
 FLW:750-780 gpm

MW:1.285
 FV:110
 PV:34
 YP:28
 Gel:18/23/42
 6/3 rpm:23/21
 WL:4
 Sol:13
 Sand:0.25
 CK:2

WOB:8-15 klbs
 RPM:130-175
 SPP:2700-2870 psi
 FLW:740-756 gpm

Survey @ 1047.0m: 1.01° 290.3A
 TVD: 1046.8m

ARGILLACEOUS CALCILUTITE:
 lt-med off wh-gry,lt olv gry-lt
 grnsh gry,aren i/p,frm-sft,
 blk-ysbflky,tr amorph.

Survey @ 1077.0m: 6.03° 203.5A
 TVD: 1076.7m

ARGILLACEOUS CALCILUTITE:
 lt-med gry-off wh,lt olv gry-lt
 grnsh gry,aren i/p,frm-sft,
 blk-ysbflky,tr amorph.

Survey @ 1105.8m: 7.59° 191.5A
 TVD: 1105.3m

MARL: lt-med gry,occ lt olv gry-
 occ lt grnsh gry,,g/t Arg. CLCLT
 i/p,tr vf pyr,tr micfoss,tr carb
 mat,stk i/p,v sft-sft,sbflky.

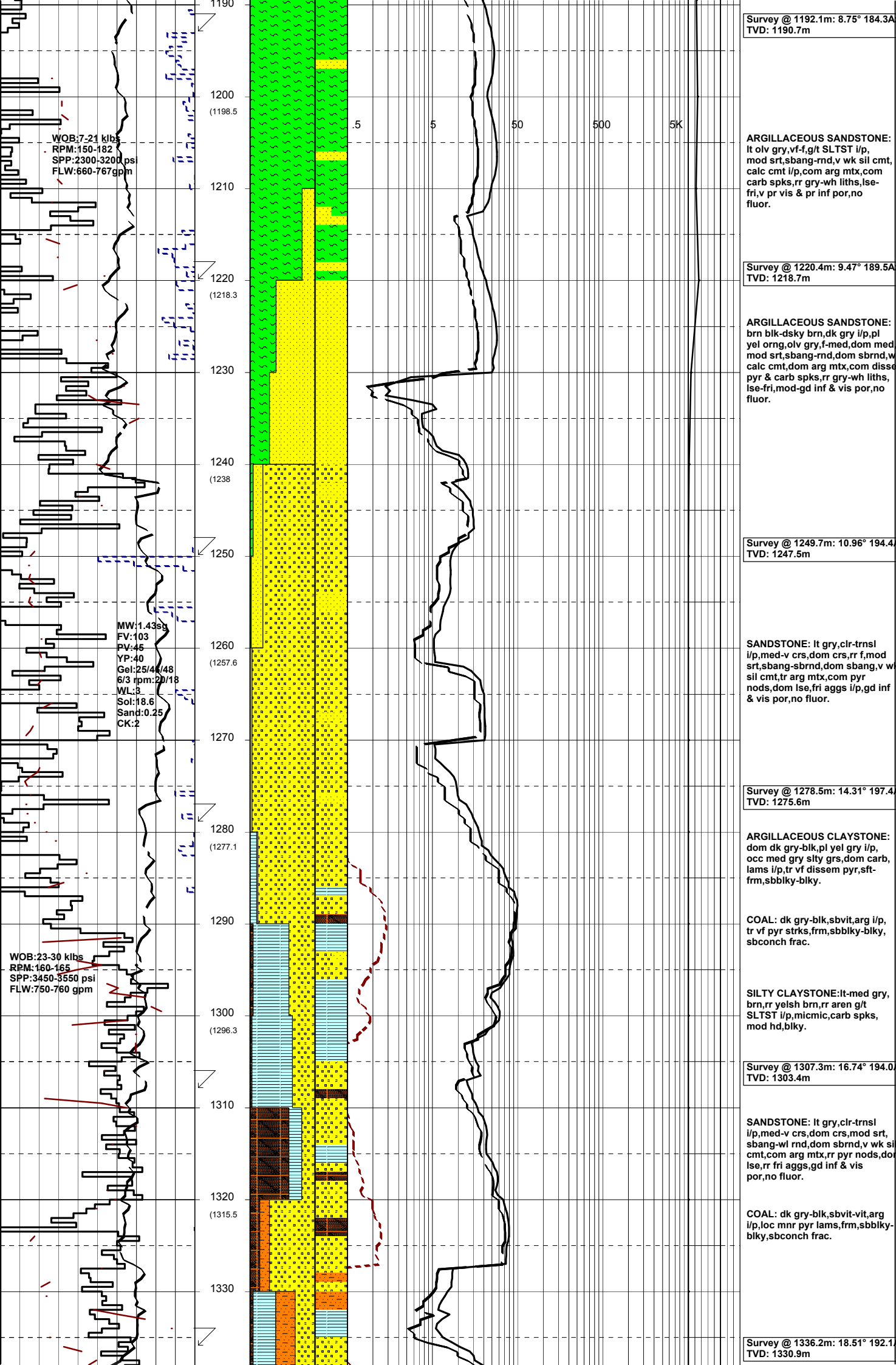
Survey @ 1134.2m: 8.42° 183.6A
 TVD: 1133.4m

MARL: lt-med gry,occ lt olv gry-
 occ lt grnsh gry,g/t Arg CLCLT
 i/p,tr vf pyr,tr micfoss,tr carb
 mat,stk i/p,v sft-sft,sbflky.

Survey @ 1162.7m: 7.78° 184.3A
 TVD: 1161.6m

MARL: lt-med gry,occ lt olv gry,
 occ lt grnsh gry,g/t Arg CLCLT
 i/p,tr xln calcite,tr micfoss
 (forams),tr vf pyr,rr vf carb spks
 stky i/p,v sft-sft,sbflky.

RE POSITION
 DEGASSER PROBE



Survey @ 1192.1m: 8.75° 184.3A
TVD: 1190.7m

ARGILLACEOUS SANDSTONE:
lt org gry,vf-f,g/t SLTST i/p,
mod srt,sbang-rnd,v wk sil cmt,
calc cmt i/p,com arg mtx,com
carb spks,rr gry-wh liths,lse-
fri,v pr vis & pr inf por,no
fluor.

Survey @ 1220.4m: 9.47° 189.5A
TVD: 1218.7m

ARGILLACEOUS SANDSTONE:
brn blk-dsky brn,dk gry i/p,pl
yel org,olv gry,f-med,dom med
mod srt,sbang-rnd,dom sbrnd,w
calc cmt,dom arg mtx,com disse
pyr & carb spks,rr gry-wh liths,
lse-fri,mod-gd inf & vis por,no
fluor.

Survey @ 1249.7m: 10.96° 194.4
TVD: 1247.5m

SANDSTONE: lt gry,clr-trnsl
i/p,med-v crs,dom crs,rr f,mod
srt,sbang-sbrnd,dom sbang,v wk
sil cmt,tr arg mtx,com pyr
nods,dom lse,fri aggs i/p,gd inf
& vis por,no fluor.

Survey @ 1278.5m: 14.31° 197.4
TVD: 1275.6m

ARGILLACEOUS CLAYSTONE:
dom dk gry-blk,pl yel gry i/p,
occ med gry stly grs,dom carb,
lams i/p,tr vf disse pyr,stf-
frm,sbbiky-blky.

COAL: dk gry-blk,svbit,arg i/p,
tr vf pyr strks,frm,sbbiky-blky,
sbconch frac.

SILTY CLAYSTONE:lt-med gry,
brn,rr yelsh brn,rr aren g/t
SLTST i/p,micmic,carb spks,
mod hd,blky.

Survey @ 1307.3m: 16.74° 194.0
TVD: 1303.4m

SANDSTONE: lt gry,clr-trnsl
i/p,med-v crs,dom crs,mod srt,
sbang-w rnd,dom sbrnd,v wk sil
cmt,com arg mtx,rr pyr nods,do
lse,rr fri aggs,gd inf & vis
por,no fluor.

COAL: dk gry-blk,svbit-vit,arg
i/p,loc mnr pyr lams,frm,sbbiky-
blky,sbconch frac.

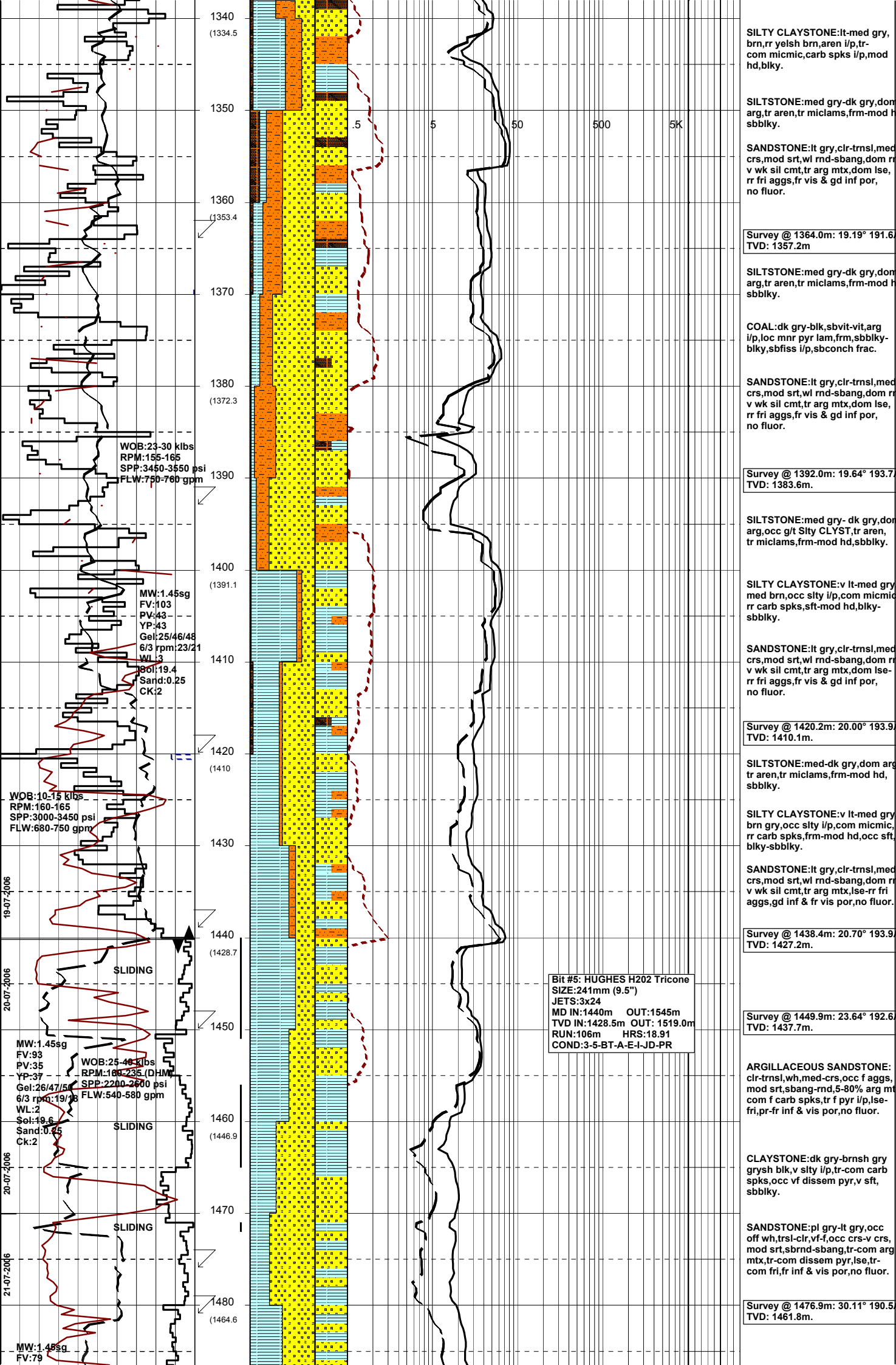
Survey @ 1336.2m: 18.51° 192.1
TVD: 1330.9m

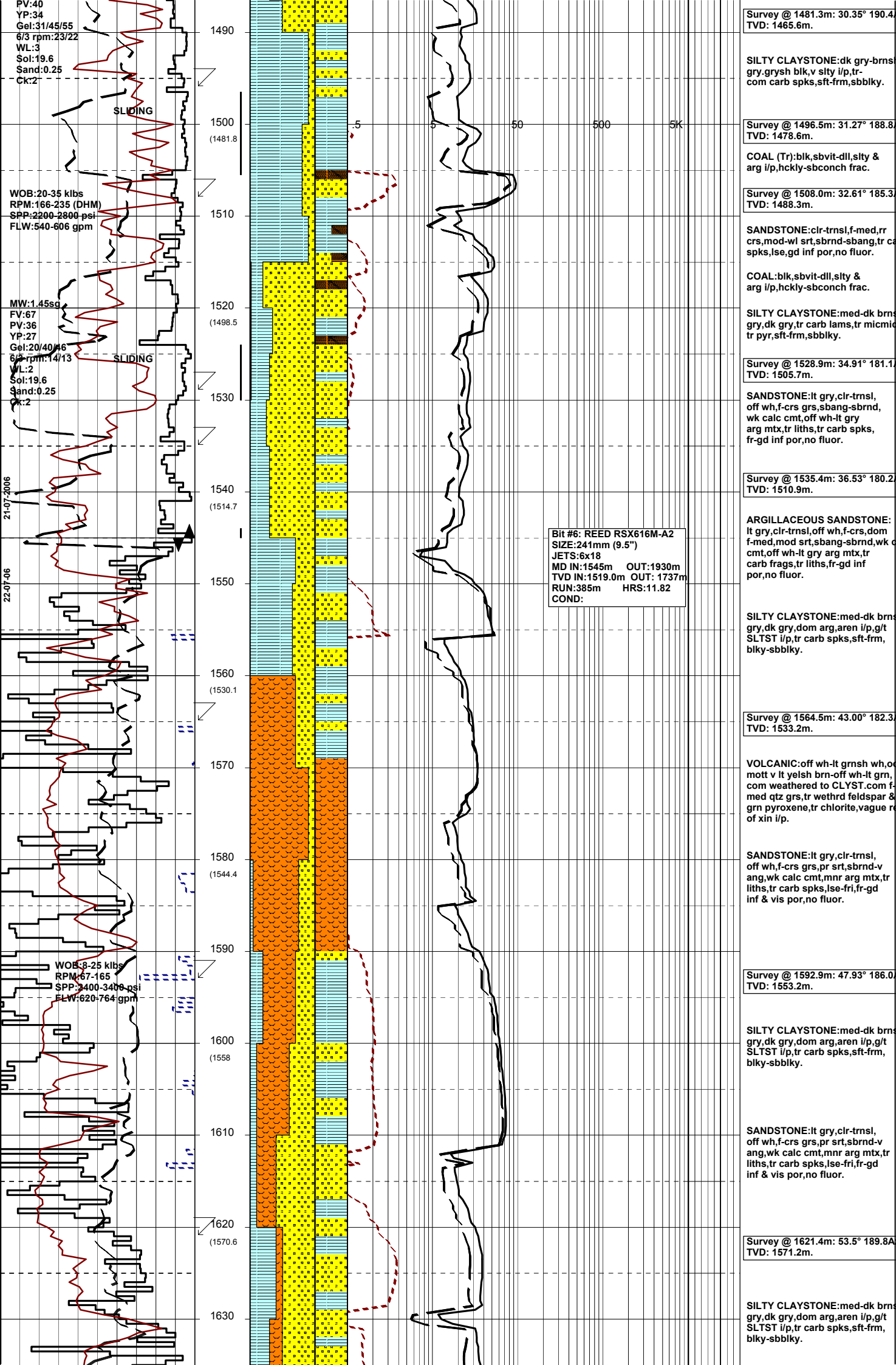
WOB:7-21 klbs
RPM:150-182
SPP:2300-3200 psi
FLW:660-767 gpm

MW:1.43ss
FV:103
PV:45
YP:40
Gel:25/44/48
6/3 rpm:20/18
WL:3
Sol:18.6
Sand:0.25
CK:2

WOB:23-30 klbs
RPM:160-165
SPP:3450-3550 psi
FLW:750-760 gpm

.5 5 50 500 5K





PV:40
 YP:34
 Gel:31/45/55
 6/3 rpm:23/22
 WL:3
 Sol:19.6
 Sand:0.25
 Ck:2

WOB:20-35 klbs
 RPM:166-235 (DHM)
 SPP:2200-2800 psi
 FLW:540-606 gpm

MW:1.45sc
 FV:67
 PV:36
 YP:27
 Gel:20/40/46
 6/3 rpm:14/13
 WL:2
 Sol:19.6
 Sand:0.25
 Ck:2

WOB:8-25 klbs
 RPM:67-165
 SPP:2400-3400 psi
 FLW:620-764 gpm

Bit #6: REED RSX616M-A2
 SIZE:241mm (9.5")
 JETS:6x18
 MD IN:1545m OUT:1930m
 TVD IN:1519.0m OUT: 1737m
 RUN:385m HRS:11.82
 COND:

Survey @ 1481.3m: 30.35° 190.4
 TVD: 1465.6m.

SILTY CLAYSTONE:dk gry-brns
 gry.grysh blk,v slty i/p,tr-
 com carb spks,sft-frm,sbbkly.

Survey @ 1496.5m: 31.27° 188.8
 TVD: 1478.6m.

COAL (Tr):blk,svbit-dll,slty &
 arg i/p,hckly-sbconch frac.

Survey @ 1508.0m: 32.61° 185.3
 TVD: 1488.3m.

SANDSTONE:clr-trnsl,f-med,rr
 crs,mod-wl srt,sbrnd-sbang,tr ca
 spks,lse,gd inf por,no fluor.

COAL:blk,svbit-dll,slty &
 arg i/p,hckly-sbconch frac.

SILTY CLAYSTONE:med-dk brns
 gry,dk gry,tr carb lams,tr micm
 tr pyr,sft-frm,sbbkly.

Survey @ 1528.9m: 34.91° 181.1
 TVD: 1505.7m.

SANDSTONE:lt gry,clr-trnsl,
 off wh,f-crs grs,sbang-sbrnd,
 wk calc cmt,off wh-lt gry
 arg mtx,tr liths,tr carb spks,
 fr-gd inf por,no fluor.

Survey @ 1535.4m: 36.53° 180.2
 TVD: 1510.9m.

ARGILLACEOUS SANDSTONE:
 lt gry,clr-trnsl,off wh,f-crs,dom
 f-med,mod srt,sbang-sbrnd,wk c
 cmt,off wh-lt gry arg mtx,tr
 carb frags,tr liths,fr-gd inf
 por,no fluor.

SILTY CLAYSTONE:med-dk brns
 gry,dk gry,dom arg,aren i/p,g/t
 SLTST i/p,tr carb spks,sft-frm,
 blkly-sbbkly.

Survey @ 1564.5m: 43.00° 182.3
 TVD: 1533.2m.

VOLCANIC:off wh-lt grnsh wh,of
 mott v lt yelsh brn-off wh-lt grn,
 com weathered to CLYST.com f-
 med qtz grs,tr wethrd feldspar &
 grn pyroxene,tr chlorite,vague re
 of xin i/p.

SANDSTONE:lt gry,clr-trnsl,
 off wh,f-crs grs,pr srt,sbrnd-v
 ang,wk calc cmt,mnr arg mtx,tr
 liths,tr carb spks,lse-fri,fr-gd
 inf & vis por,no fluor.

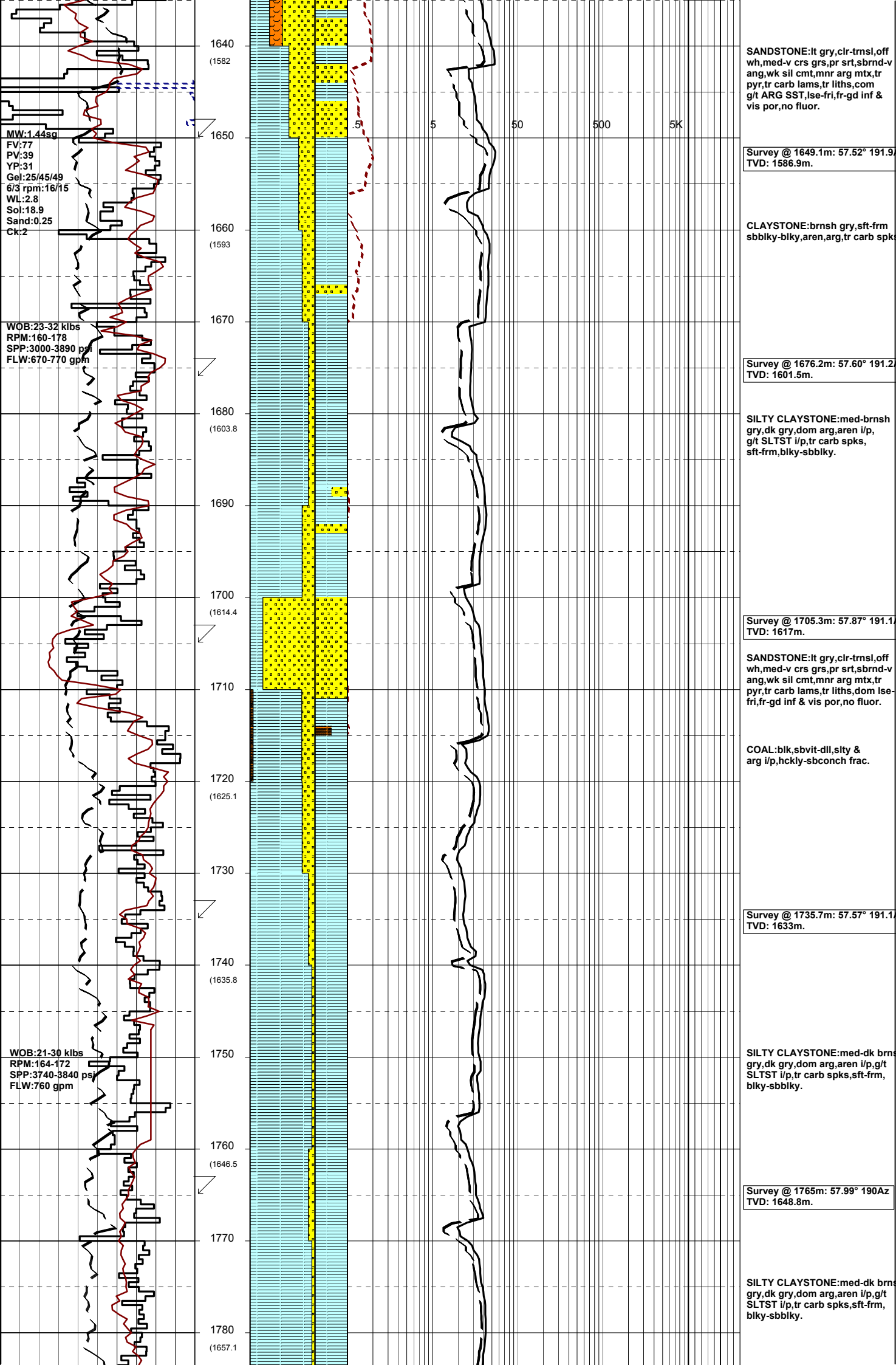
Survey @ 1592.9m: 47.93° 186.0
 TVD: 1553.2m.

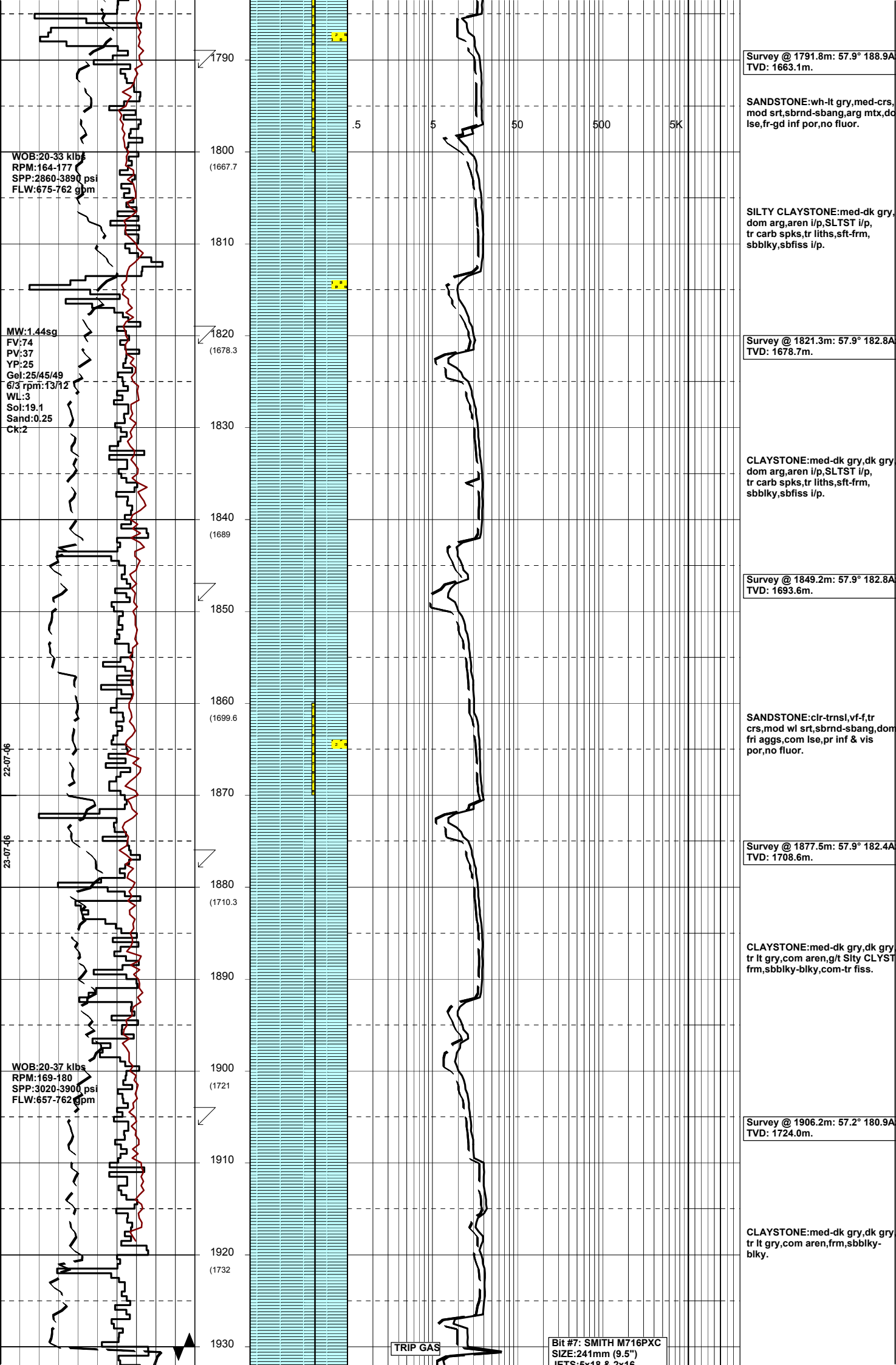
SILTY CLAYSTONE:med-dk brns
 gry,dk gry,dom arg,aren i/p,g/t
 SLTST i/p,tr carb spks,sft-frm,
 blkly-sbbkly.

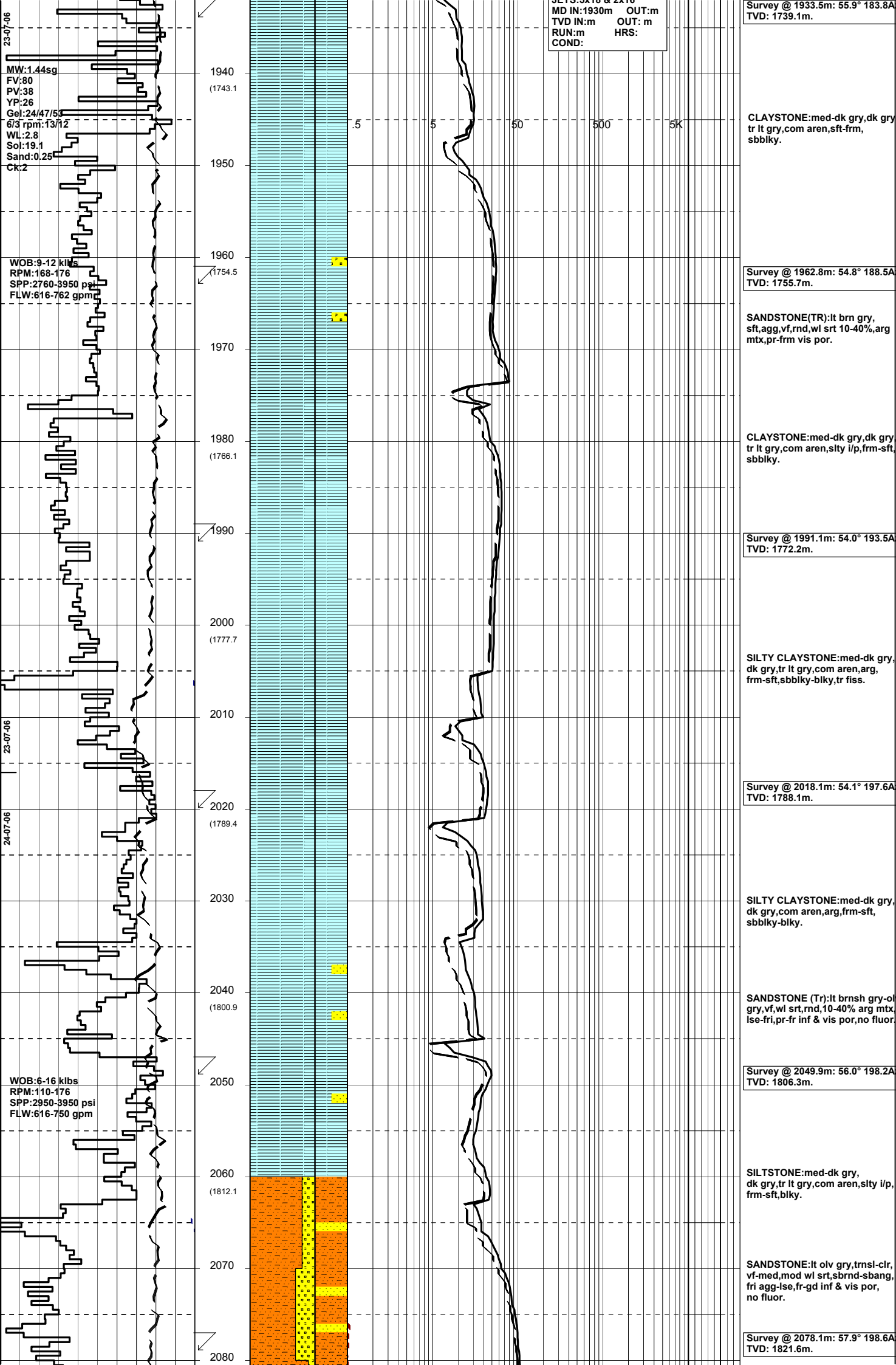
SANDSTONE:lt gry,clr-trnsl,
 off wh,f-crs grs,pr srt,sbrnd-v
 ang,wk calc cmt,mnr arg mtx,tr
 liths,tr carb spks,lse-fri,fr-gd
 inf & vis por,no fluor.

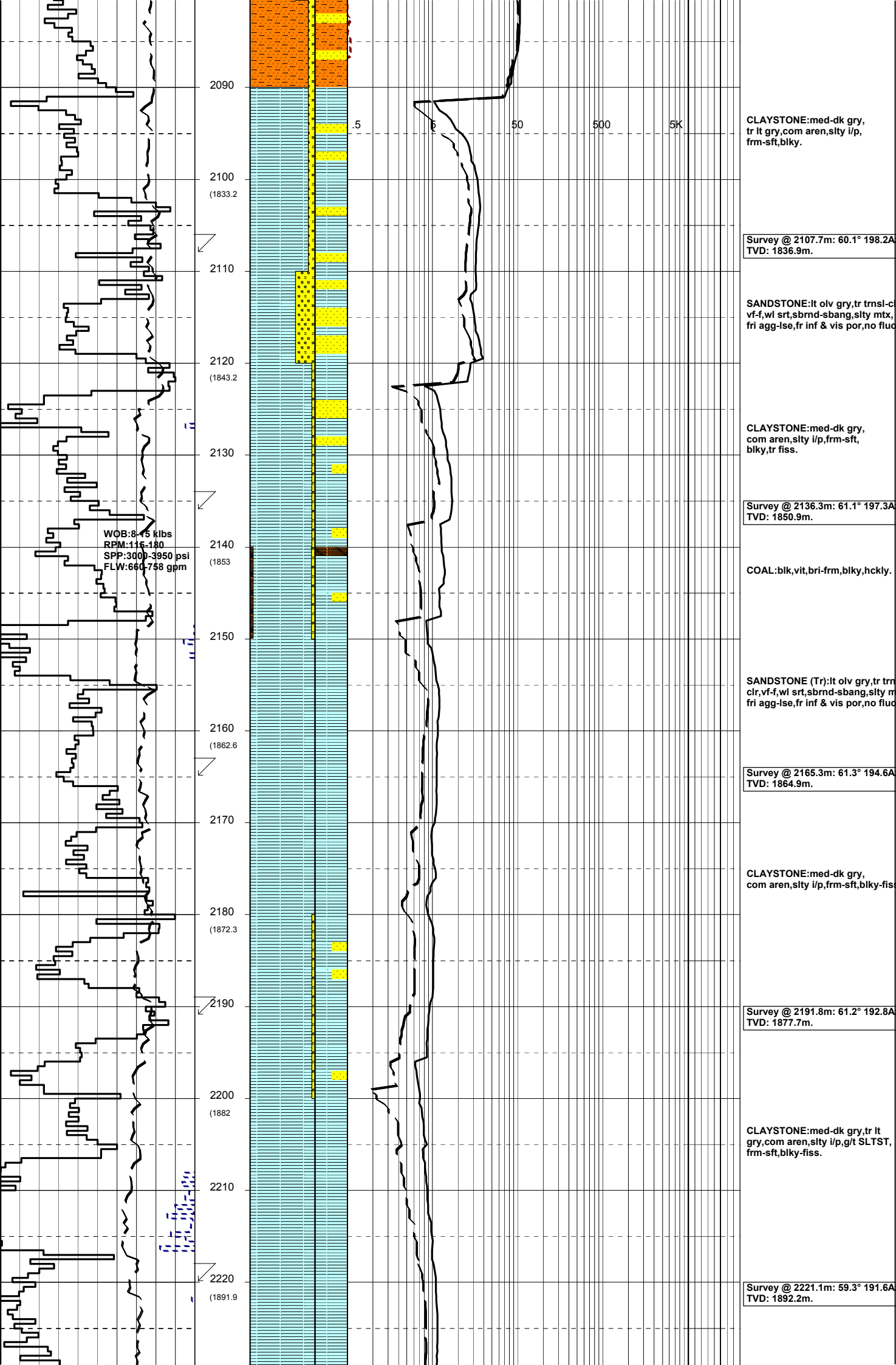
Survey @ 1621.4m: 53.5° 189.8A
 TVD: 1571.2m.

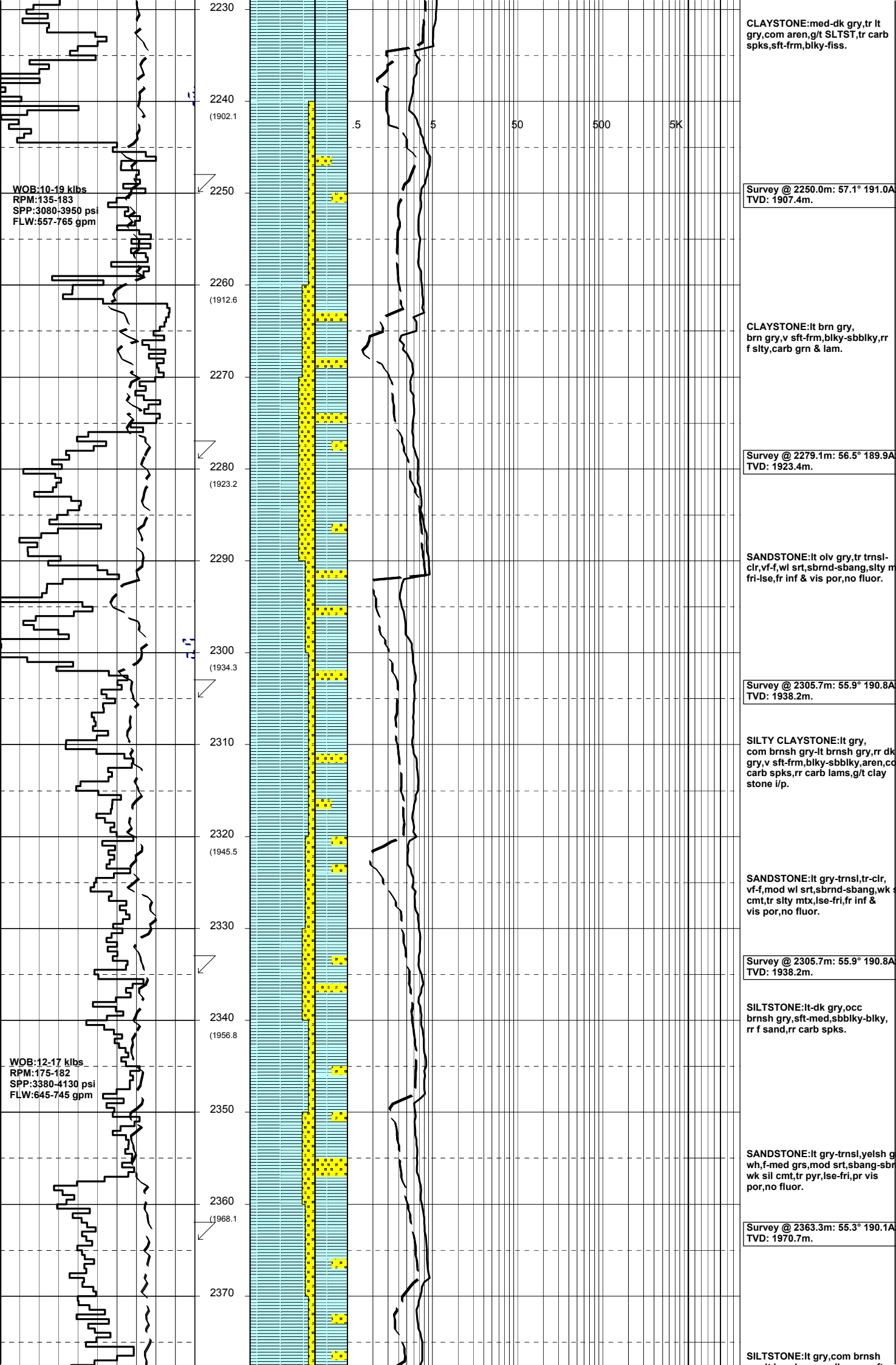
SILTY CLAYSTONE:med-dk brns
 gry,dk gry,dom arg,aren i/p,g/t
 SLTST i/p,tr carb spks,sft-frm,
 blkly-sbbkly.

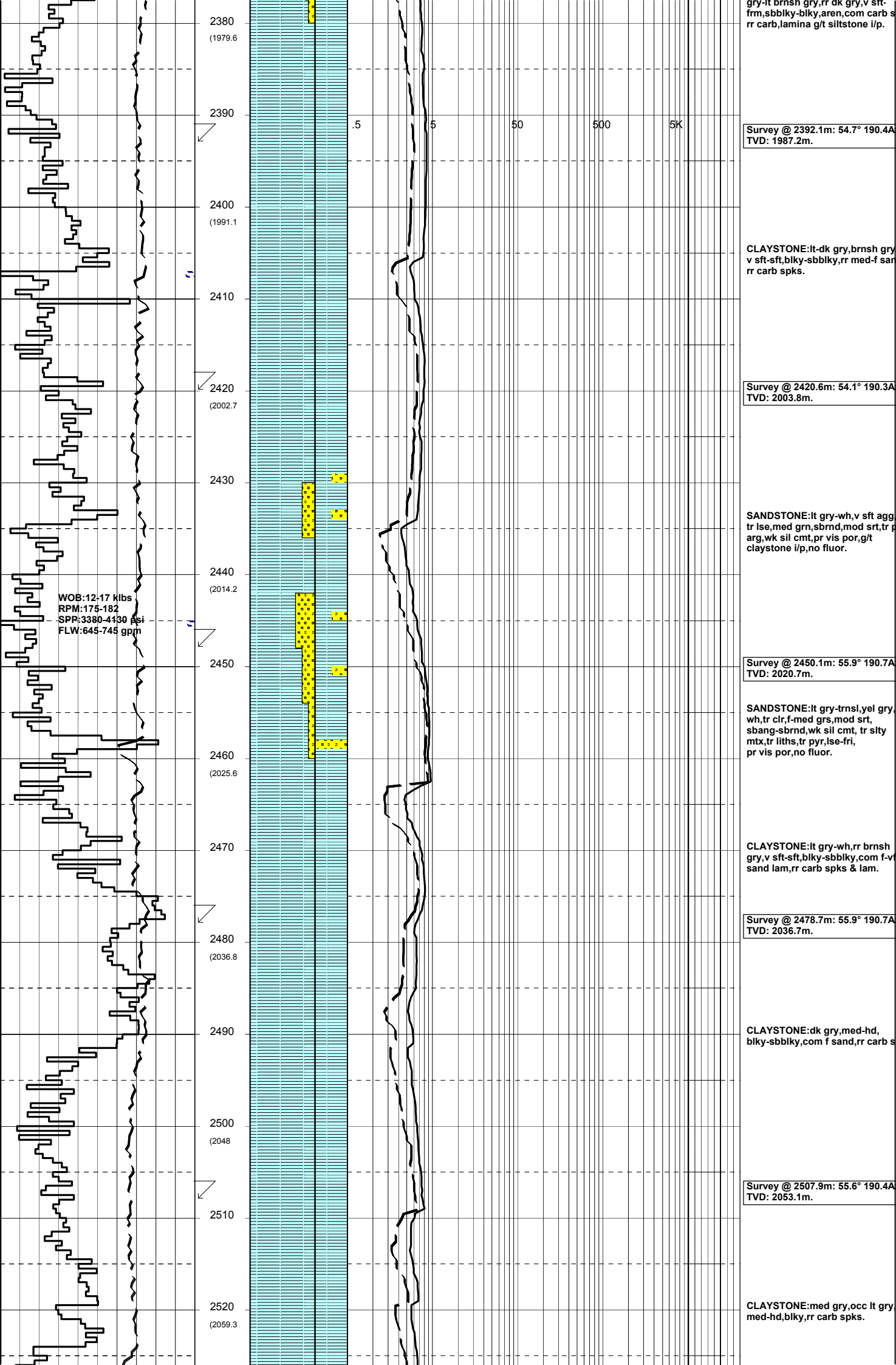












2380
(1979.6)

2390
(1991.1)

2400
(1991.1)

2410
(1991.1)

2420
(2002.7)

2430
(2002.7)

2440
(2014.2)

2450
(2014.2)

2460
(2025.6)

2470
(2025.6)

2480
(2036.8)

2490
(2036.8)

2500
(2048)

2510
(2048)

2520
(2059.3)

.5 5 50 500 5K

Survey @ 2392.1m: 54.7° 190.4A
TVD: 1987.2m.

CLAYSTONE:lt-dk gry,brnsh gry
v sft-sft,blky-sbblky,rr med-f sand
rr carb spks.

Survey @ 2420.6m: 54.1° 190.3A
TVD: 2003.8m.

SANDSTONE:lt gry-wh,v sft agg
tr lse,med gm,sbrnd,mod srt,pr
arg,wk sil cmt,pr vis por,g/t
claystone i/p,no fluor.

Survey @ 2450.1m: 55.9° 190.7A
TVD: 2020.7m.

SANDSTONE:lt gry-trnsl,yel gry
wh,tr clr.f-med grs,mod srt,
sbang-sbrnd,wk sil cmt, tr stly
mtx,tr liths,tr pyr,lse-fri,
pr vis por,no fluor.

CLAYSTONE:lt gry-wh,rr brnsh
gry,v sft-sft,blky-sbblky,com f-v
sand lam,rr carb spks & lam.

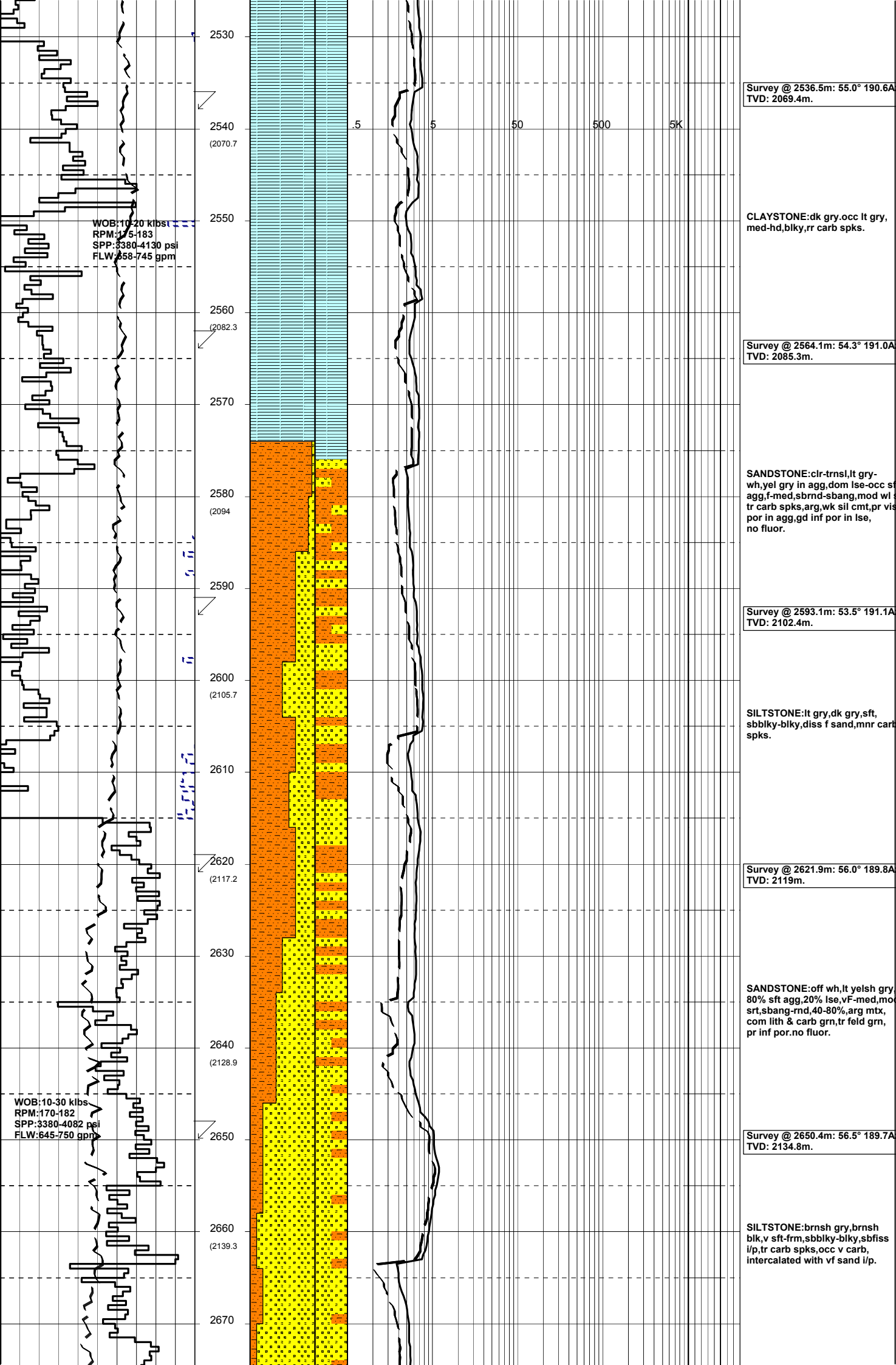
Survey @ 2478.7m: 55.9° 190.7A
TVD: 2036.7m.

CLAYSTONE:dk gry,med-hd,
blky-sbblky,com f sand,rr carb s

Survey @ 2507.9m: 55.6° 190.4A
TVD: 2053.1m.

CLAYSTONE:med gry,occ lt gry
med-hd,blky,rr carb spks.

WOB:12-17 klbs
RPM:175-182
SPP:3380-4130 psi
FLW:645-745 gpm



Survey @ 2536.5m: 55.0° 190.6A
TVD: 2069.4m.

CLAYSTONE: dk gry, occ lt gry,
med-hd, blk, rr carb spks.

Survey @ 2564.1m: 54.3° 191.0A
TVD: 2085.3m.

SANDSTONE: clr-trnsl, lt gry-
wh, yel gry in agg, dom lse-occ s
agg, f-med, sbrnd-sbang, mod wl
tr carb spks, arg, wk sil cmt, pr vis
por in agg, gd inf por in lse,
no fluor.

Survey @ 2593.1m: 53.5° 191.1A
TVD: 2102.4m.

SILTSTONE: lt gry, dk gry, sft,
sbbkly-blky, diss f sand, mnr carb
spks.

Survey @ 2621.9m: 56.0° 189.8A
TVD: 2119m.

SANDSTONE: off wh, lt yelsh gry
80% sft agg, 20% lse, vF-med, mo
srt, sbang-rnd, 40-80% arg mtx,
com lith & carb grn, tr feld grn,
pr inf por, no fluor.

Survey @ 2650.4m: 56.5° 189.7A
TVD: 2134.8m.

SILTSTONE: brnsh gry, brnsh
blk, v sft frm, sbbkly-blky, sbfiss
i/p, tr carb spks, occ v carb,
intercalated with vf sand i/p.

WOB: 10-20 klbs
RPM: 115-183
SPP: 3380-4130 psi
FLW: 658-745 gpm

WOB: 10-30 klbs
RPM: 170-182
SPP: 3380-4082 psi
FLW: 645-750 gpm

