

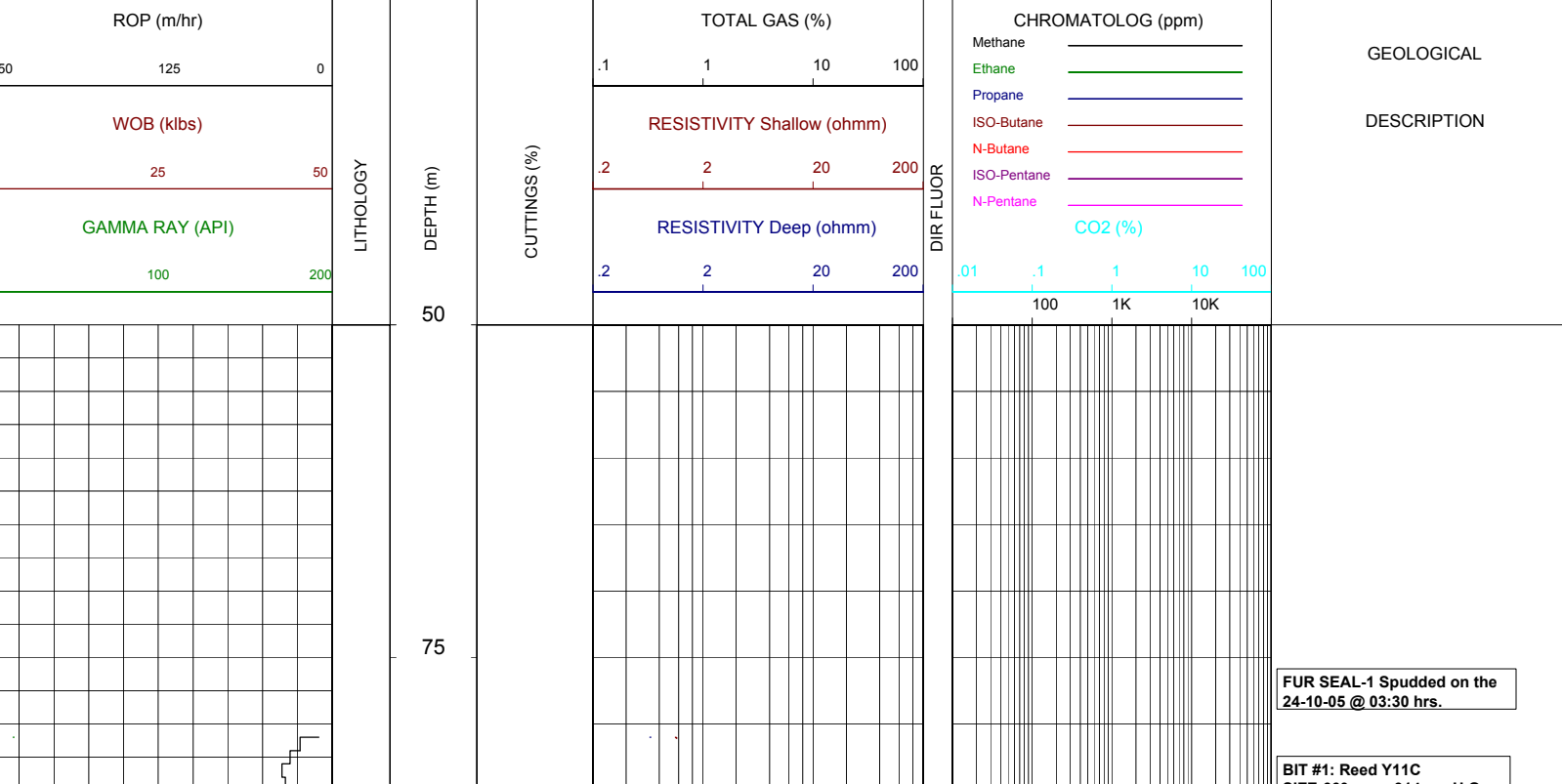
Field : GIPPSLAND	AHD - RT (m) : 21.5	Rig : OCEAN PATRIOT	Open Hole:	Cased Hole:	Engineers :D.ADDERLEY
Permit: VIC/P-54	Seabed - AHD (m) : 58.6	Spud date : 24-10-05	914 mm 111.7 m	762 mm 111.0 m	P.McGILVERAY
State : VICTORIA	Seabed - RT (m) : 80.1	TD date : 01-11-05	406 mm 824.0 m	340 mm 817.6 m	A.DUNN
Country : AUSTRALIA	Lat. : 38 07 47.91 S	Total depth : 2610.0 m	216 mm 2610.0 m		
Scale : 1/ 500	Long. : 148 09 08.44E	Final status : Plug & Abandon			

LITHOLOGY	
	Conglomerate
	Coarse Sandstone
	Med Sandstone
	Fine Sandstone
	VF Sandstone
	Claystone
	Carb. Siltstone
	Calc. Siltstone
	Siltstone
	Limestone
	Dolomite
	Coal
	Calclutite
	Calcsiltite
	Calcarenite
	Volcanic
	Metamorphic
	Cement

ACCESSORIES	
	Pyrite
	Siderite
	Glauconite
	Feldspar
	Mica
	Ferrous
	Chert
	Calcareous
	Dolomitic
	Carbonaceous
	Lithoclast
	Breccia
	Foraminifera
	Corals
	Inoceramus
	Bryozoa
	Plant remains
	Fossils

DRILLING DATA	
	Casing Shoe
	Bit Trip
	Wiper Trip
	Core
	DST
	Deviation Survey
MUD DATA	
MW - Mud Weight (lb/gal)	
FV - Funnel Viscosity (s/qt)	
PV - Plastic Viscosity (cps)	
YP - Yield Point (lb/100ftsq)	
Gel - Gel Strength (10sec)	
WL - Water Loss (cc/30min)	
pH - Acidity / Alkalinity	
Ck - Cake (32nd/inch)	
Sol - Solids (% vol)	
Cl - Chlorides (mg/l)	

ABBREVIATIONS	
BOPD - Barrels of Oil Per Day	OG - Over Gauge
BWPD - Barrels of Water Per Day	OH - Open Hole
CG - Connection Gas	OTS - Oil To Surface
CO - Circulate Out	Q - Flow Rate
COND - Condensate	REC - Recovery
c/c - Crush Cut	Rmf - Resistivity mud filtrate
DST - Drill Stem Test	ROP - Rate Of Penetration
FLOW - Flow Rate (gal/min)	RPM - Revolutions Per Minute
GCM - Gas Cut Mud	RTSTM - Rate Too Small To Measure
GCW - Gas Cut Water	Rw - Resistivity water
GTS - Gas To Surface	r/r - ring residue
INJ - Injection of Mist (bbls/hr)	SCFM - Standard Cubic Ft/Min (air)
LCM - Lost Circulation Material	SGCM - Slightly Gas Cut Mud
MMCFD - Million Cubic Feet / Day	SPM - Strokes Per Minute
NGTS - No Gas To Surface	SPP - Stand Pipe Pressure
NOTS - No Oil To Surface	SWC - Side-Wall Core
NR - No Returns	TG - Trip Gas
OCM - Oil Cut Mud	WOB - Weight On Bit



FUR SEAL-1 Spudded on the 24-10-05 @ 03:30 hrs.

BIT #1: Reed Y11C

SIZE:660mm + 914mm H.O.
JETS: 3x28
IN:80.1 m OUT: 111.7m
RUN:31.6m HRS: 2.2
COND:Not Graded.

762mm Housing set @ 111.0 mMDRT

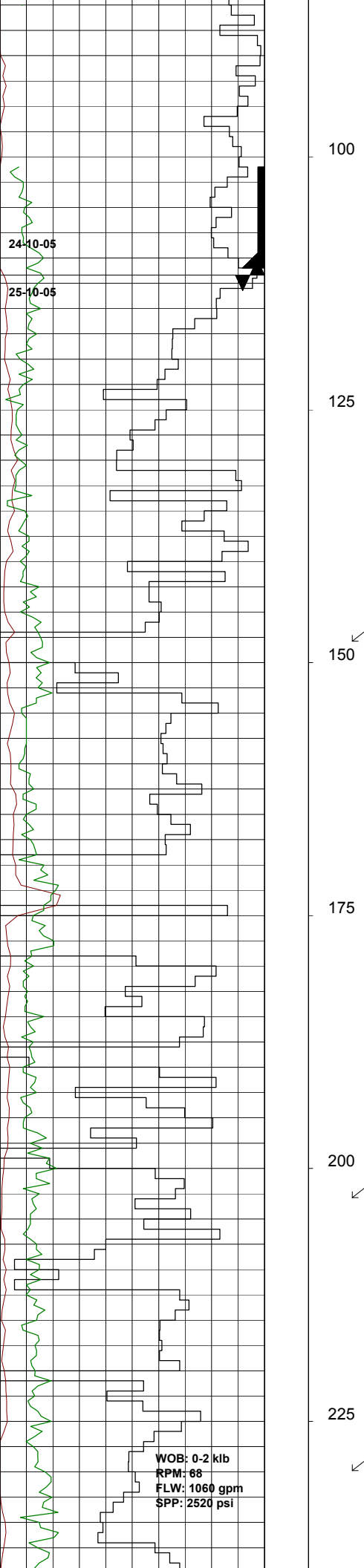
BIT #2: SEC FS2563
SIZE: 406mm
JETS: 7x18
IN: 111.7m OUT:824.0 m
RUN:712.3m HRS:10.6
COND:0-0-I-NO-E-I-NO-TD.

Survey @ 147.58m: 0.20° 177.1Az

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

Survey @ 202.77m: 0.44° 176.3Az

Survey @ 230.70m: 0.60° 175.4Az



100

125

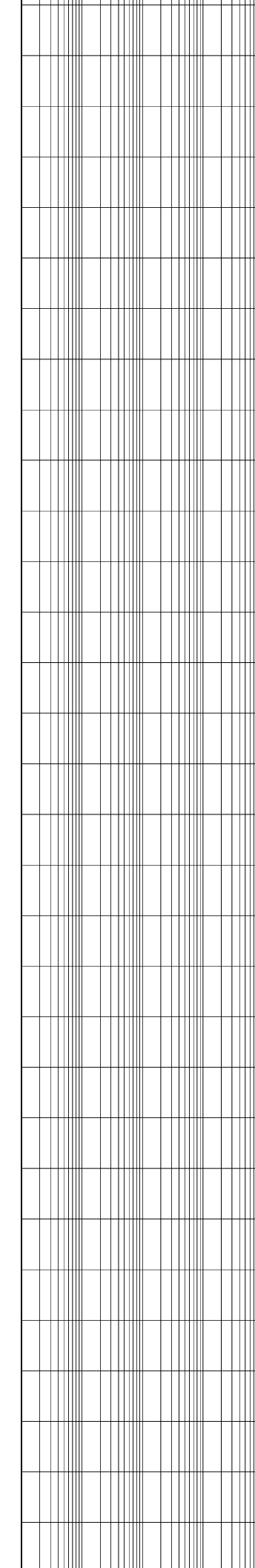
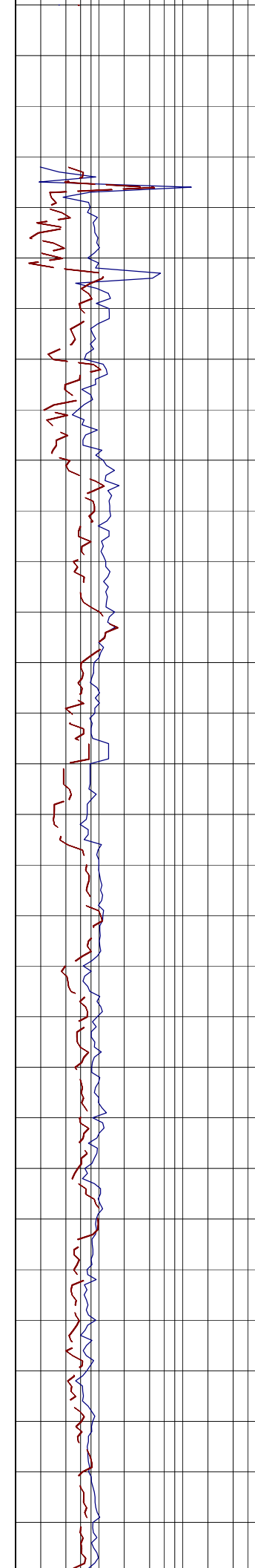
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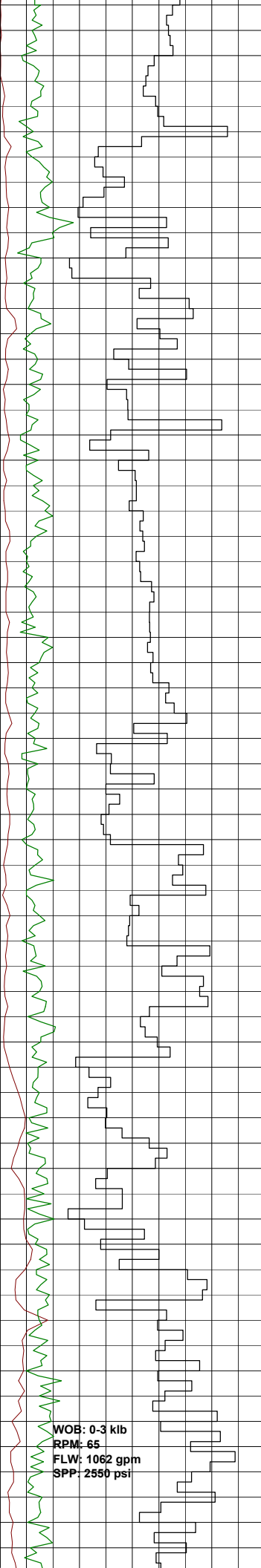
175

200

225

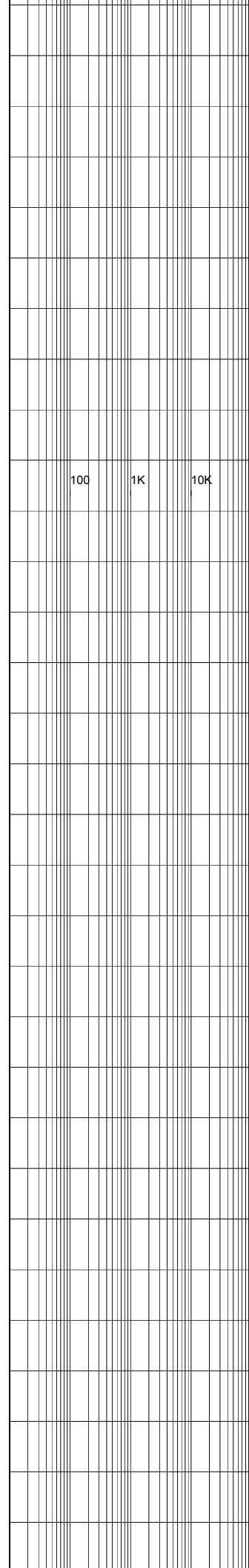
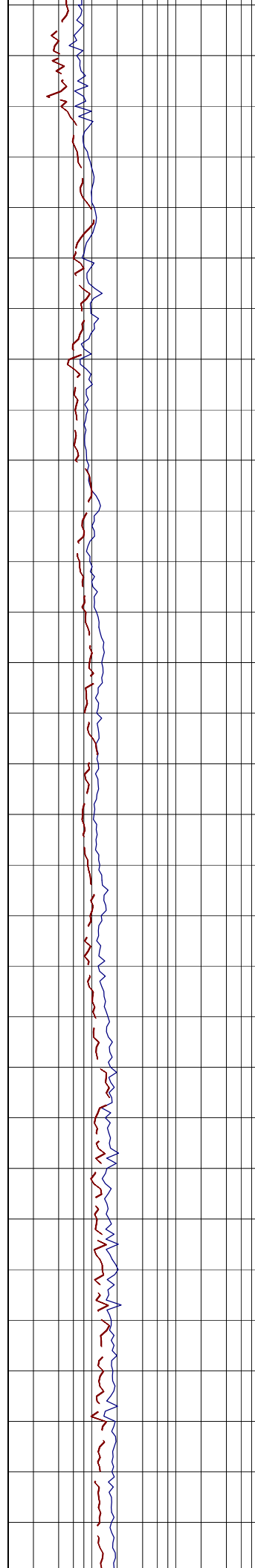
WOB: 0-2 klb
RPM: 68
FLW: 1060 gpm
SPP: 2520 psi





250
↙
275
300
↙
325
350
375

WOB: 0-3 kib
RPM: 65
FLW: 1062 gpm
SPP: 2550 psi

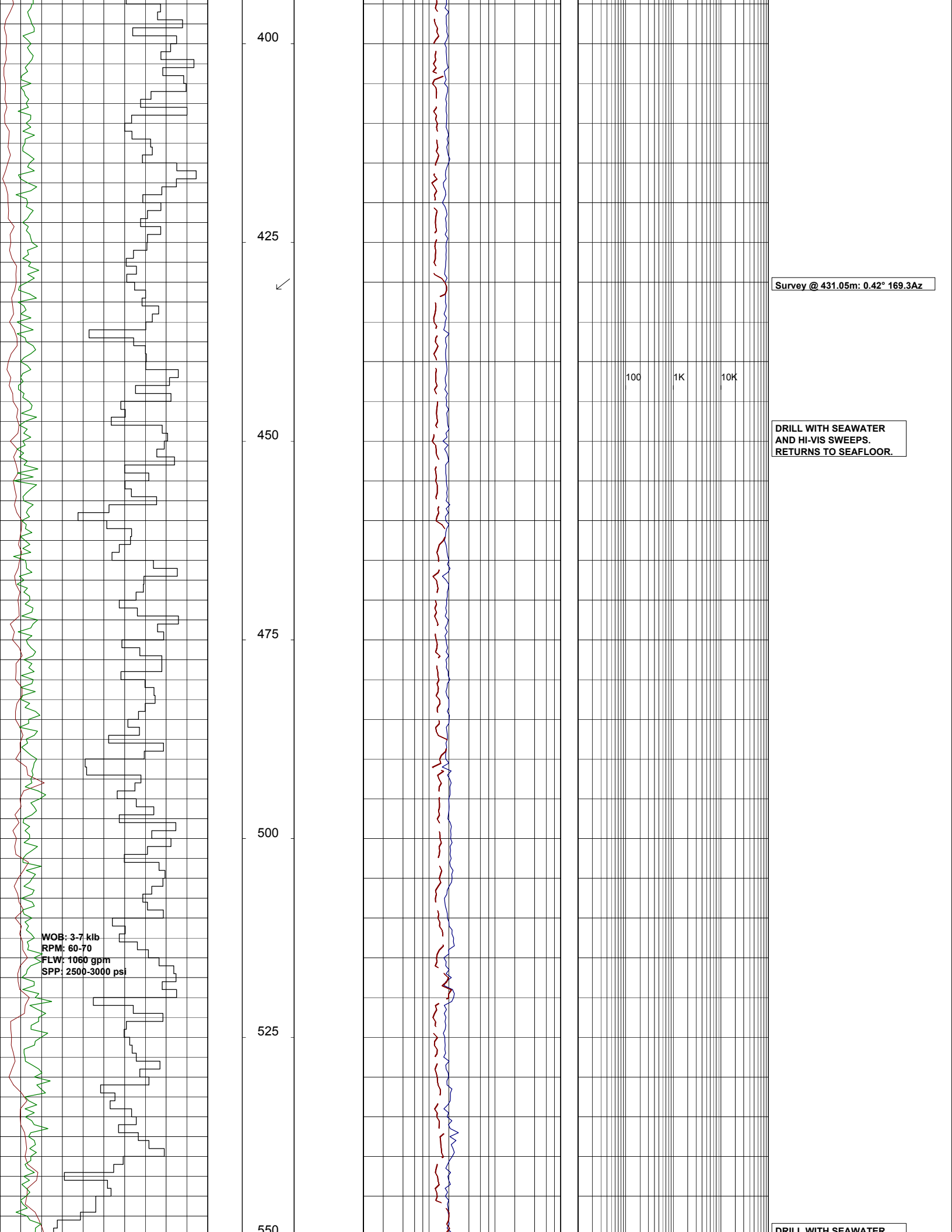


100 1K 10K

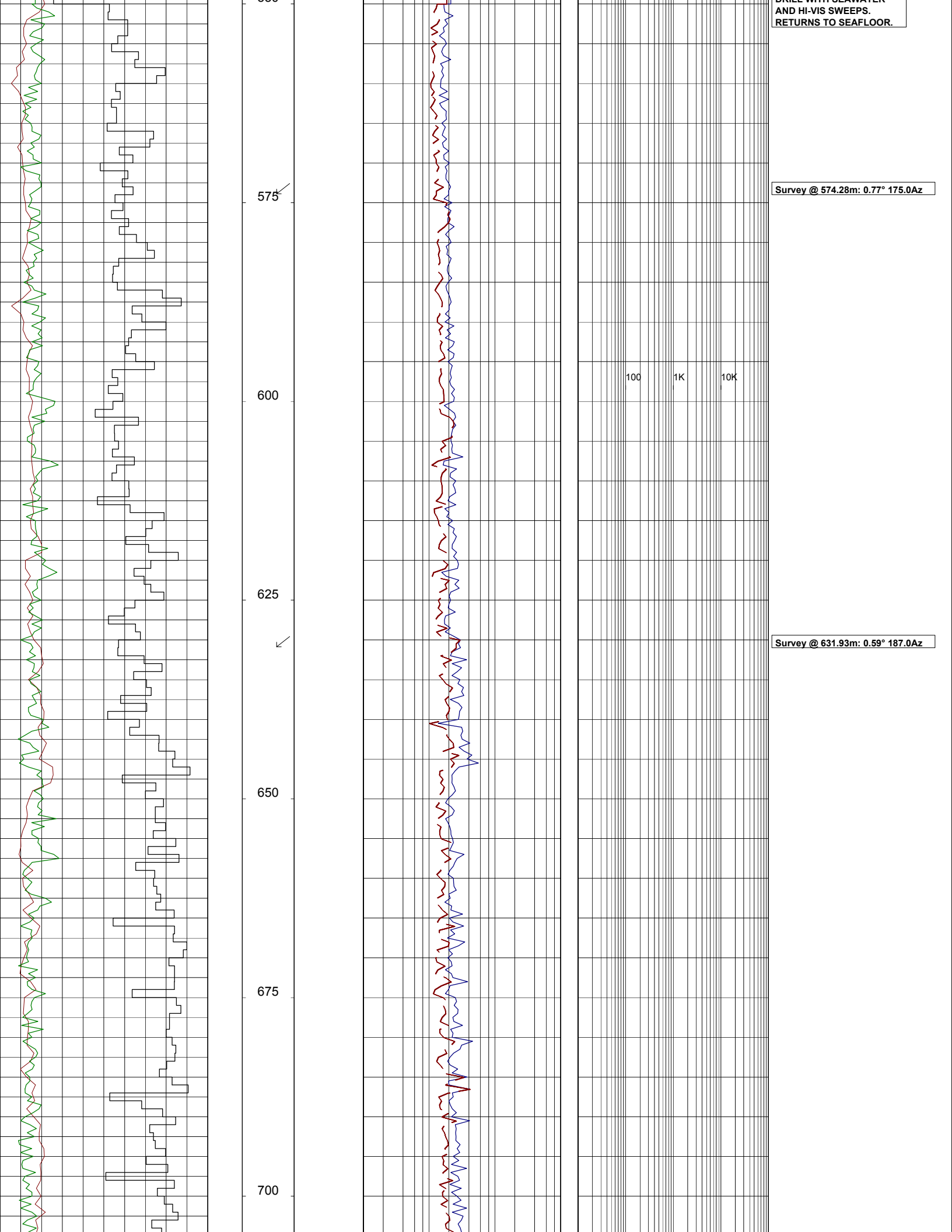
Survey @ 259.17m: 0.44° 182.3Az

Survey @ 316.17m: 0.19° 202.2Az

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



PARALLEL SEAWATER
AND HI-VIS SWEEPS.
RETURNS TO SEAFLOOR.



575

600

625

650

675

700

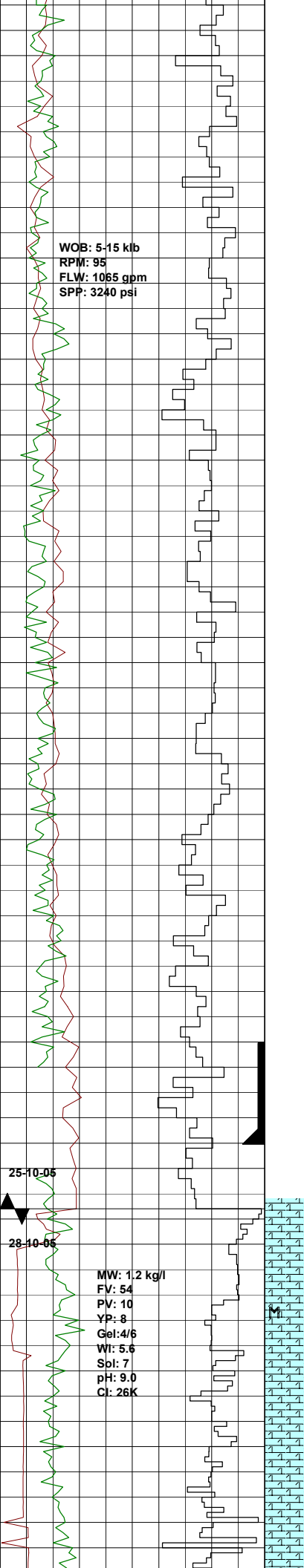
Survey @ 574.28m: 0.77° 175.0Az

Survey @ 631.93m: 0.59° 187.0Az

100

1K

10K



WOB: 5-15 klb
 RPM: 95
 FLW: 1065 gpm
 SPP: 3240 psi

25-10-05

28-10-05

MW: 1.2 kg/l
 FV: 54
 PV: 10
 YP: 8
 Gel: 4/6
 WI: 5.6
 Sol: 7
 pH: 9.0
 Cl: 26K

725

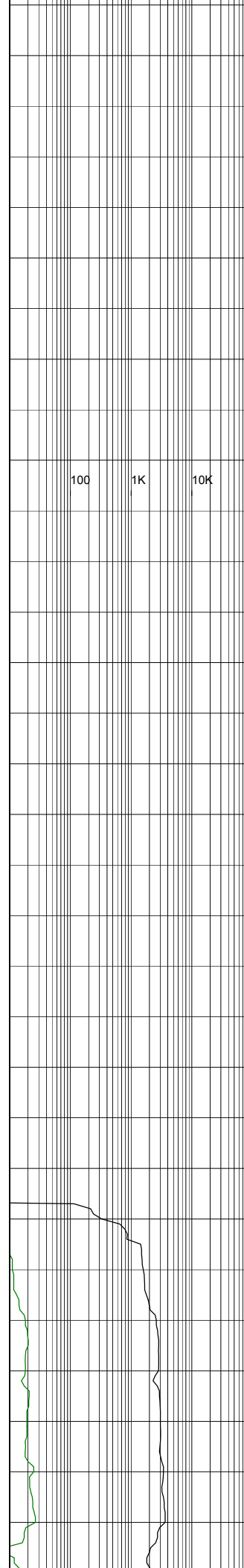
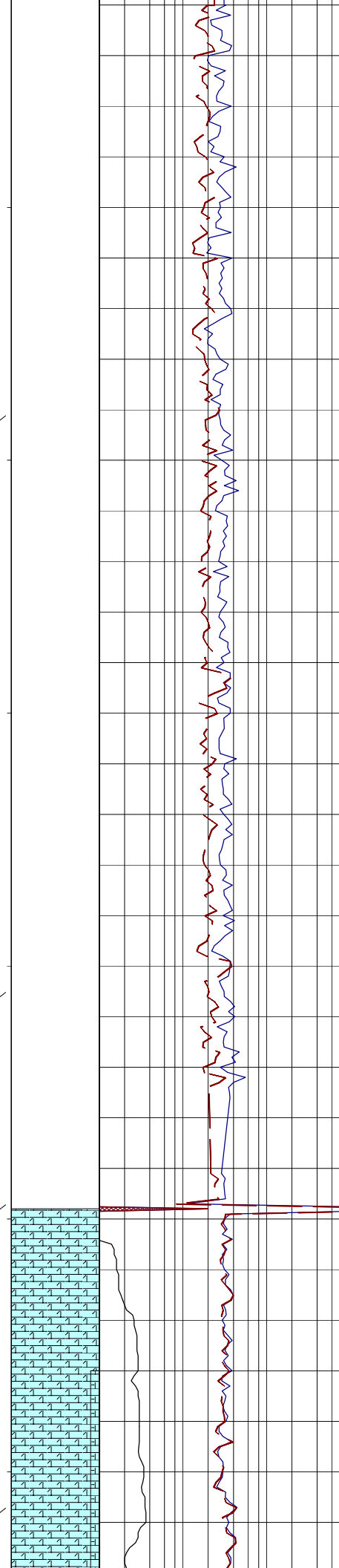
750

775

800

825

850



100 1K 10K

Survey @ 747.01m: 1.16° 234.8Az

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

Survey @ 804.24m: 1.36° 261.58Az

340 mm Shoe set @
 817.6 mMDRT.

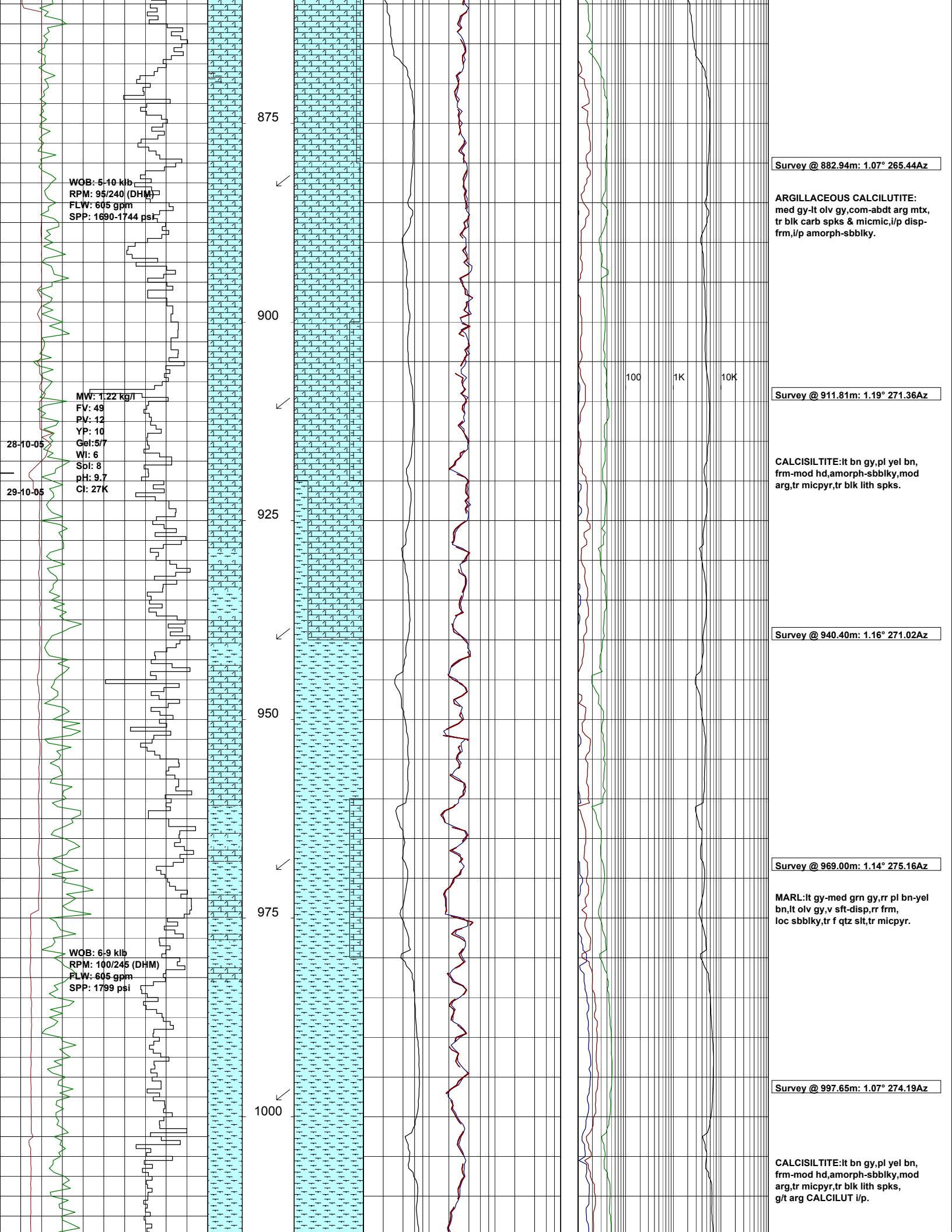
Survey @ 825.95m: 1.41° 257.87Az

BIT #3: SMITH S73VPX
 SIZE: 216mm
 JETS: 3x15,3x16
 IN: 824m OUT: 2610m
 RUN:1786m HRS: 60.5
 COND:1-0-ER-N-X-I-WT-TD.

FIT @ 827 m, EMW=1.7 sq.

ARGILLACEOUS CALCILUTE:
 med gy-lt olv gy.com-abdt arg mtx,
 tr blk carb spks & micmic,i/p disp-
 frm,i/p amorph-sbblky.

Survey @ 854.17m: 1.08° 262.66Az



WOB: 5-10 kib
 RPM: 95/240 (DHM)
 FLW: 605 gpm
 SPP: 1690-1744 psi

MW: 1.22 kg/l
 FV: 49
 PV: 12
 YP: 10
 Gel: 5/7
 WI: 6
 SpI: 8
 pH: 9.7
 CI: 27K

28-10-05

29-10-05

WOB: 6-9 kib
 RPM: 100/245 (DHM)
 FLW: 605 gpm
 SPP: 1799 psi

Survey @ 882.94m: 1.07° 265.44Az

ARGILLACEOUS CALCILUTITE:
 med gy-lt olv gy,com-abdt arg mtx,
 tr blk carb spks & micmic,i/p disp-
 frm,i/p amorph-sbbkly.

Survey @ 911.81m: 1.19° 271.36Az

CALCISILTITE:lt bn gy,pl yel bn,
 frm-mod hd,amorph-sbbkly,mod
 arg,tr micpyr,tr blk lith spks.

Survey @ 940.40m: 1.16° 271.02Az

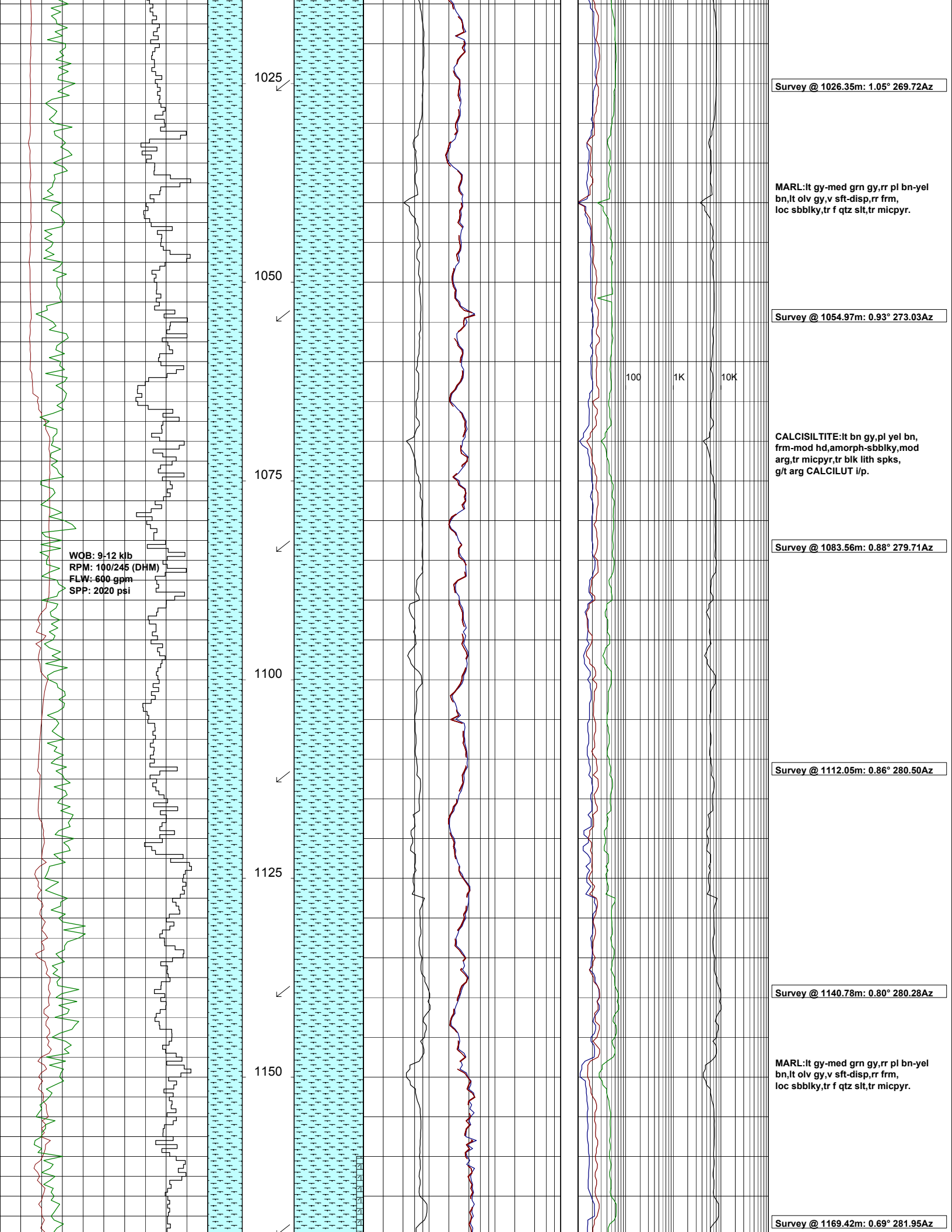
Survey @ 969.00m: 1.14° 275.16Az

MARL:lt gy-med grn gy,rr pl bn-yel
 bn,lt olv gy,v sft-disp,rr frm,
 loc sbbkly,tr f qtz slit, tr micpyr.

Survey @ 997.65m: 1.07° 274.19Az

CALCISILTITE:lt bn gy,pl yel bn,
 frm-mod hd,amorph-sbbkly,mod
 arg,tr micpyr,tr blk lith spks,
 g/t arg CALCILUT i/p.

100 1K 10K



WOB: 9-12 klb
RPM: 100/245 (DHM)
FLW: 600 gpm
SPP: 2020 psi

Survey @ 1026.35m: 1.05° 269.72Az

MARL:lt gy-med grn gy,rr pl bn-yel
bn,lt olv gy,v sft-disp,rr frm,
loc sbbiky,tr f qtz slt,tr micpyr.

Survey @ 1054.97m: 0.93° 273.03Az

CALCISILTITE:lt bn gy,pl yel bn,
frm-mod hd,amorph-sbbiky,mod
arg,tr micpyr,tr blk lith spks,
g/t arg CALCILUT i/p.

Survey @ 1083.56m: 0.88° 279.71Az

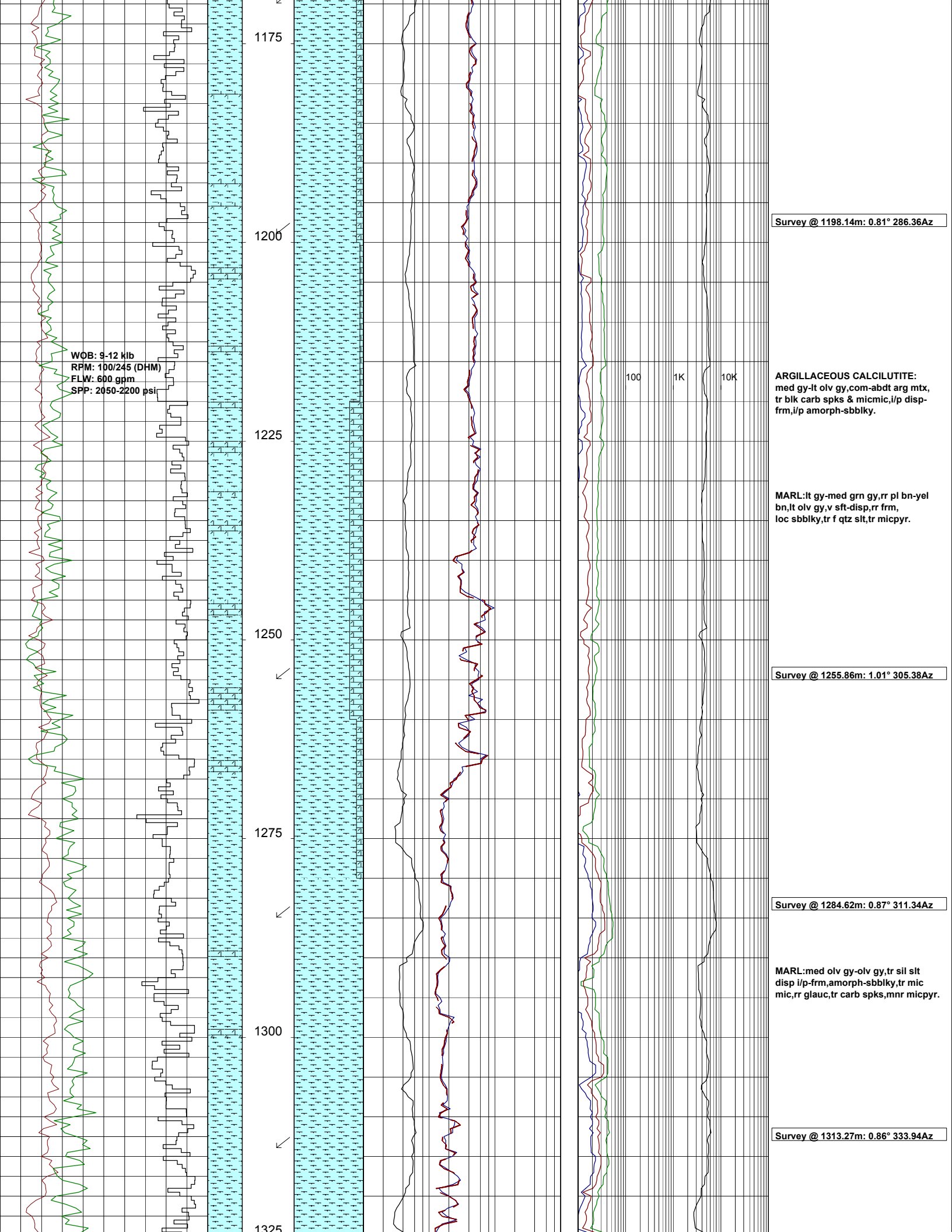
Survey @ 1112.05m: 0.86° 280.50Az

Survey @ 1140.78m: 0.80° 280.28Az

MARL:lt gy-med grn gy,rr pl bn-yel
bn,lt olv gy,v sft-disp,rr frm,
loc sbbiky,tr f qtz slt,tr micpyr.

Survey @ 1169.42m: 0.69° 281.95Az

100 1K 10K



WOB: 9-12 klb
 RPM: 100/245 (DHM)
 FLW: 600 gpm
 SPP: 2050-2200 psi

Survey @ 1198.14m: 0.81° 286.36Az

ARGILLACEOUS CALCILUTITE:
 med gy-lt olv gy,com-abdt arg mtx,
 tr blk carb spks & micmic,i/p disp-
 frm,i/p amorph-sbblky.

MARL:lt gy-med grn gy,rr pl bn-yel
 bn,lt olv gy,v sft-disp,rr frm,
 loc sbblky,tr f qtz slt,tr micpyr.

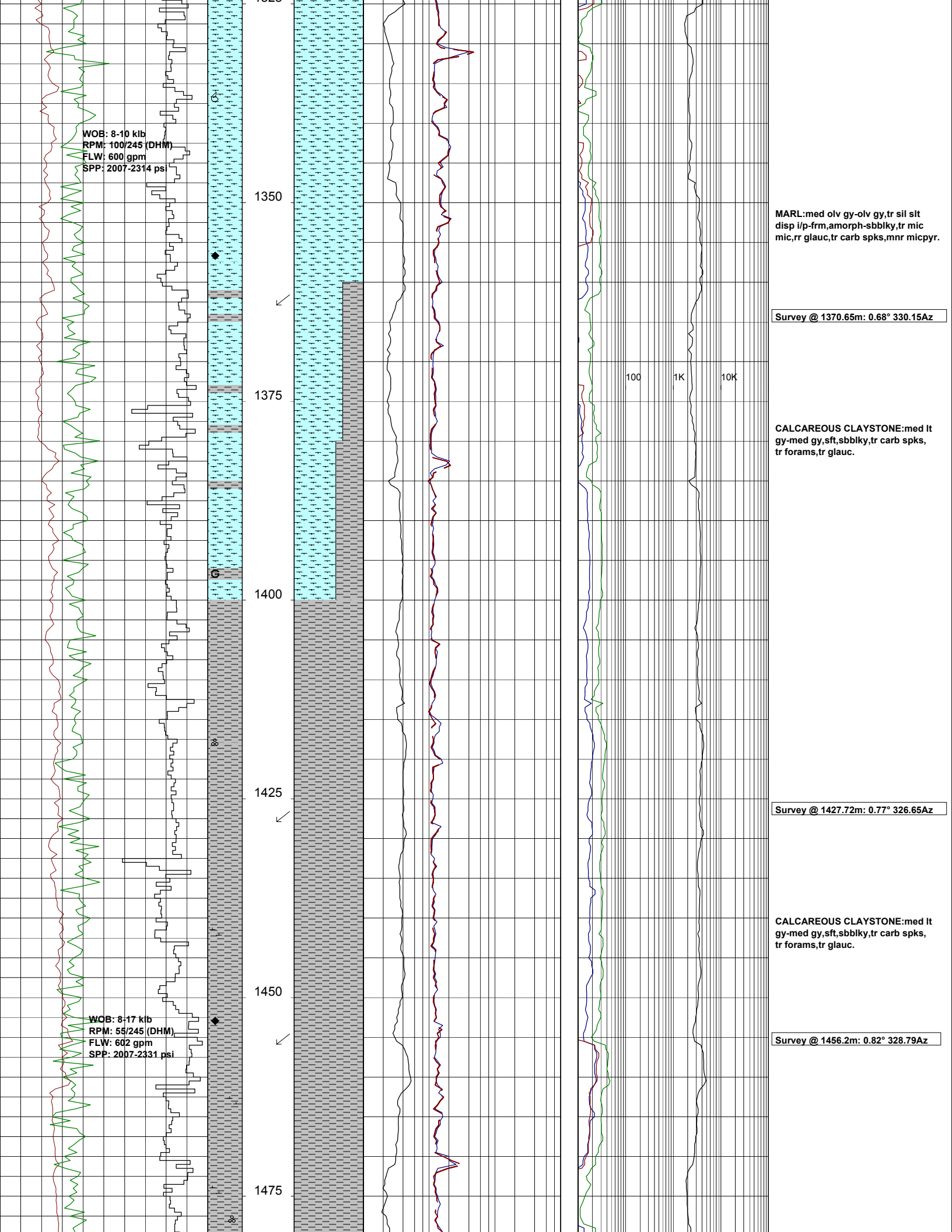
Survey @ 1255.86m: 1.01° 305.38Az

Survey @ 1284.62m: 0.87° 311.34Az

MARL:med olv gy-olv gy,tr sil slt
 disp i/p-frm,amorph-sbblky,tr mic
 mic,rr glauc,tr carb spks,mnr micpyr.

Survey @ 1313.27m: 0.86° 333.94Az

100 1K 10K



WOB: 8-10 klb
 RPM: 100/245 (DHM)
 FLW: 600 gpm
 SPP: 2007-2314 psi

WOB: 8-17 klb
 RPM: 55/245 (DHM)
 FLW: 602 gpm
 SPP: 2007-2331 psi

MARL: med olv gy-olv gy, tr sil slit
 disp i/p-frm, amorph-sbbiky, tr mic
 mic, rr glauc, tr carb spks, mnr micpyr.

Survey @ 1370.65m: 0.68° 330.15Az

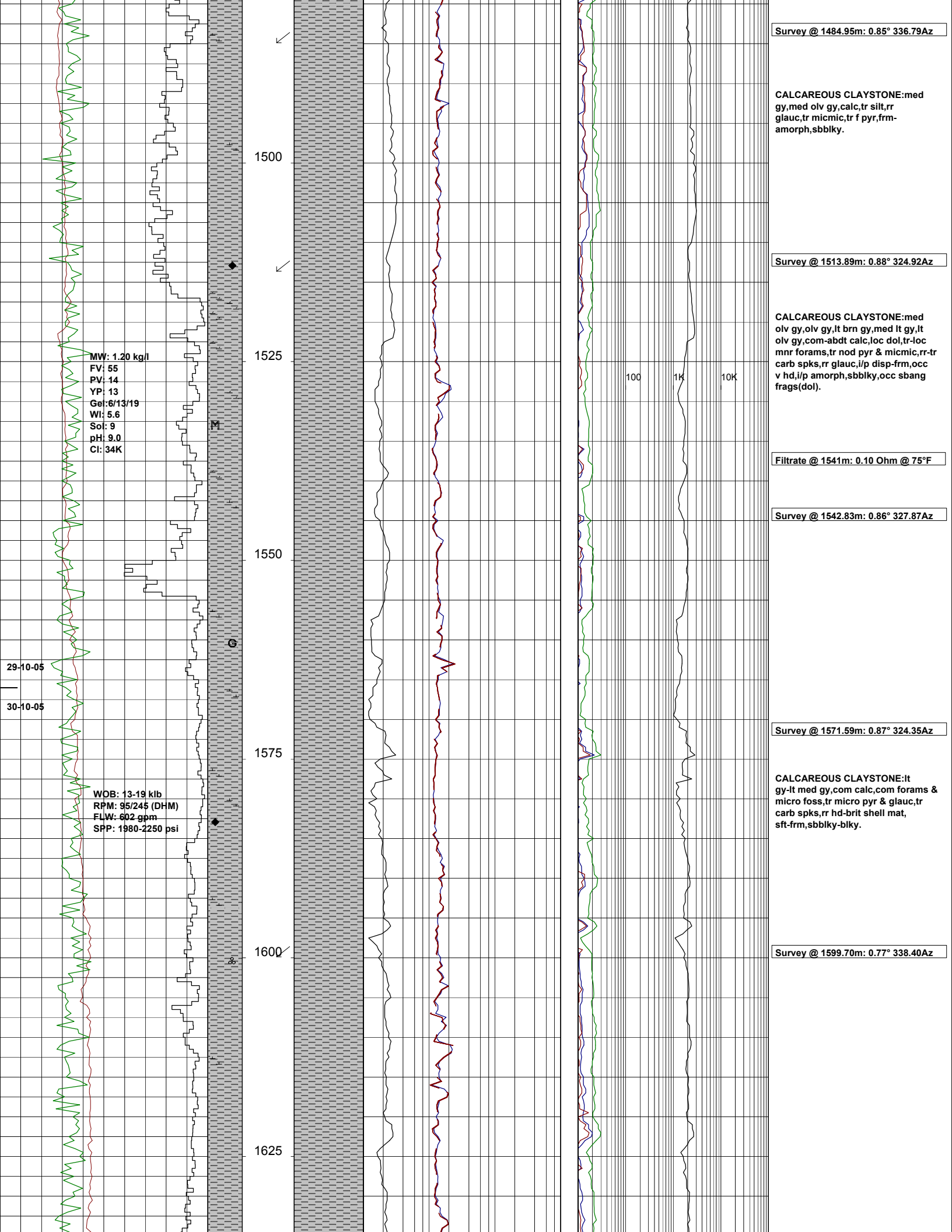
100 1K 10K

CALCAREOUS CLAYSTONE: med lt
 gy-med gy, sft, sbbiky, tr carb spks,
 tr forams, tr glauc.

Survey @ 1427.72m: 0.77° 326.65Az

CALCAREOUS CLAYSTONE: med lt
 gy-med gy, sft, sbbiky, tr carb spks,
 tr forams, tr glauc.

Survey @ 1456.2m: 0.82° 328.79Az



Survey @ 1484.95m: 0.85° 336.79Az

CALCAREOUS CLAYSTONE:med gy,med olv gy,calc,tr silt,rr glauc,tr micmic,tr f pyr,frm-amorph,sbbiky.

Survey @ 1513.89m: 0.88° 324.92Az

CALCAREOUS CLAYSTONE:med olv gy,olv gy,lt brn gy,med lt gy,lt olv gy,com-abdt calc,loc dol,tr-loc mnf forams,tr nod pyr & micmic,rr-tr carb spks,rr glauc,i/p disp-frm,occ v hd,i/p amorph,sbbiky,occ sbang frags(dol).

Filtrate @ 1541m: 0.10 Ohm @ 75°F

Survey @ 1542.83m: 0.86° 327.87Az

Survey @ 1571.59m: 0.87° 324.35Az

CALCAREOUS CLAYSTONE:lt gy-lt med gy,com calc,com forams & micro foss,tr micro pyr & glauc,tr carb spks,rr hd-brit shell mat, sft-frm,sbbiky-blky.

Survey @ 1599.70m: 0.77° 338.40Az

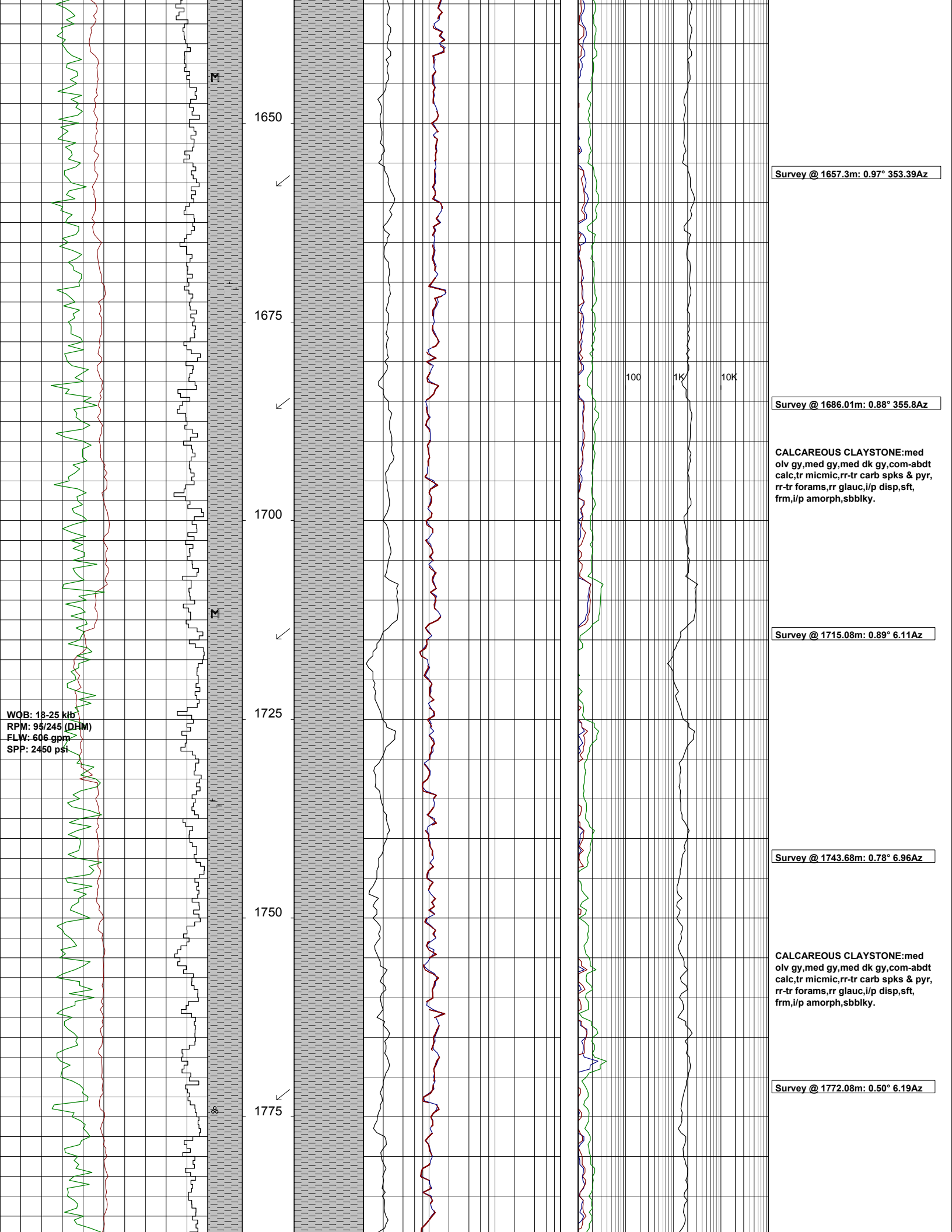
MW: 1.20 kg/l
 FV: 55
 PV: 14
 YP: 13
 Gel: 6/13/19
 WI: 5.6
 Sol: 9
 pH: 9.0
 Cl: 34K

WOB: 13-19 klb
 RPM: 95/245 (DHM)
 FLW: 602 gpm
 SPP: 1980-2250 psi

100 1K 10K

29-10-05
 30-10-05

1500
 1525
 1550
 1575
 1600
 1625



Survey @ 1657.3m: 0.97° 353.39Az

Survey @ 1686.01m: 0.88° 355.8Az

CALCAREOUS CLAYSTONE:med
olv gy,med gy,med dk gy,com-abdt
calc,tr micmic,rr-tr carb spks & pyr,
rr-tr forams,rr glauc,i/p disp,sft,
frm,i/p amorph,sbblky.

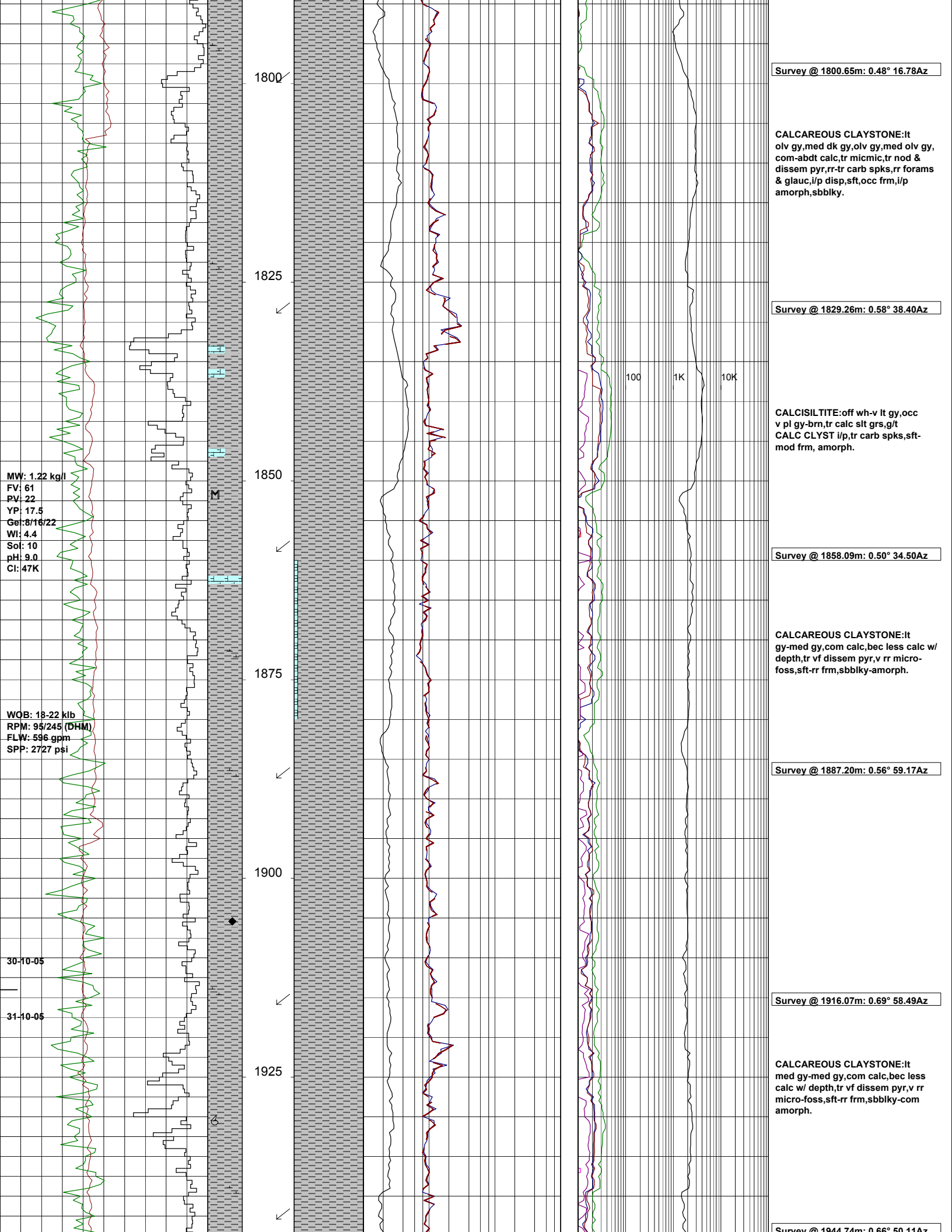
Survey @ 1715.08m: 0.89° 6.11Az

Survey @ 1743.68m: 0.78° 6.96Az

CALCAREOUS CLAYSTONE:med
olv gy,med gy,med dk gy,com-abdt
calc,tr micmic,rr-tr carb spks & pyr,
rr-tr forams,rr glauc,i/p disp,sft,
frm,i/p amorph,sbblky.

Survey @ 1772.08m: 0.50° 6.19Az

WOB: 18-25 kib
RPM: 95/245 (DHM)
FLW: 606 gpm
SPP: 2450 psi



Survey @ 1800.65m: 0.48° 16.78Az

CALCAREOUS CLAYSTONE:lt olv gy,med dk gy,olv gy,med olv gy, com-abdt calc,tr micmic,tr nod & dissem pyr,rr-tr carb spks,rr forams & glauc,i/p disp,sft,occ frm,i/p amorph,sbbkly.

Survey @ 1829.26m: 0.58° 38.40Az

CALCISILTITE:off wh-v lt gy,occ v pl gy-brn,tr calc slt grs,g/t
CALC CLYST i/p,tr carb spks,sft-mod frm, amorph.

Survey @ 1858.09m: 0.50° 34.50Az

CALCAREOUS CLAYSTONE:lt gy-med gy,com calc,bec less calc w/ depth,tr vf dissem pyr,v rr micro-foss,sft-rr frm,sbbkly-amorph.

Survey @ 1887.20m: 0.56° 59.17Az

Survey @ 1916.07m: 0.69° 58.49Az

CALCAREOUS CLAYSTONE:lt med gy-med gy,com calc,bec less calc w/ depth,tr vf dissem pyr,v rr micro-foss,sft-rr frm,sbbkly-com amorph.

Survey @ 1944.74m: 0.66° 50.11Az

MW: 1.22 kg/l
FV: 61
PV: 22
YP: 17.5
Ge: 8/16/22
WI: 4.4
Sol: 10
pH: 9.0
CI: 47K

WOB: 18-22 kib
RPM: 95/245 (DHM)
FLW: 596 gpm
SPP: 2727 psi

30-10-05

31-10-05

1800

1825

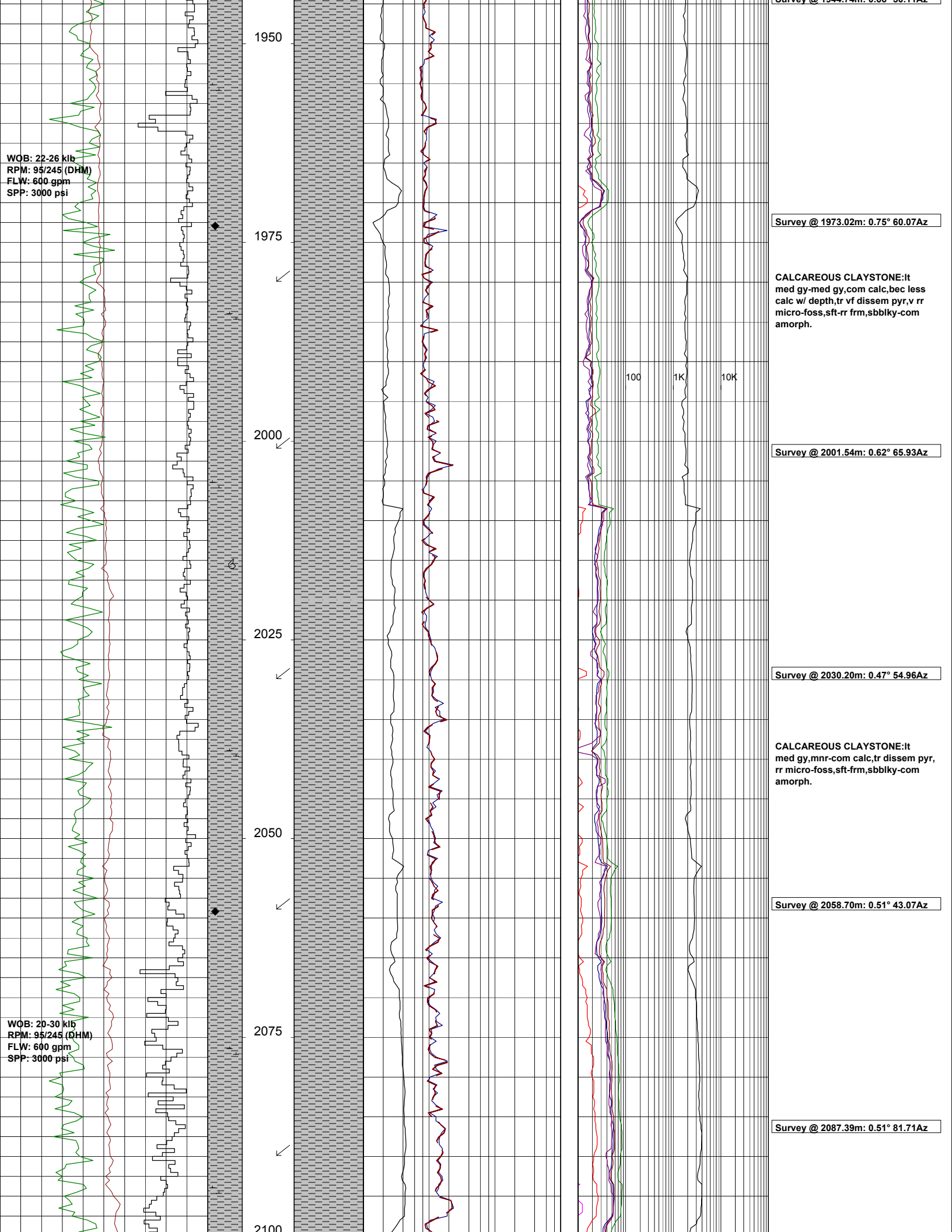
1850

1875

1900

1925

100 1K 10K



Survey @ 1944.74m: 0.60° 56.11Az

WOB: 22-26 klb
 RPM: 95/245 (DHM)
 FLW: 600 gpm
 SPP: 3000 psi

Survey @ 1973.02m: 0.75° 60.07Az

CALCAREOUS CLAYSTONE:It med gy-med gy,com calc, bec less calc w/ depth, tr vf disseminated pyr, v rr micro-foss, sft-frm, sbbkly-com amorph.

100 1K 10K

Survey @ 2001.54m: 0.62° 65.93Az

Survey @ 2030.20m: 0.47° 54.96Az

CALCAREOUS CLAYSTONE:It med gy, mnr-com calc, tr disseminated pyr, rr micro-foss, sft-frm, sbbkly-com amorph.

Survey @ 2058.70m: 0.51° 43.07Az

WOB: 20-30 klb
 RPM: 95/245 (DHM)
 FLW: 600 gpm
 SPP: 3000 psi

Survey @ 2087.39m: 0.51° 81.71Az

1950

1975

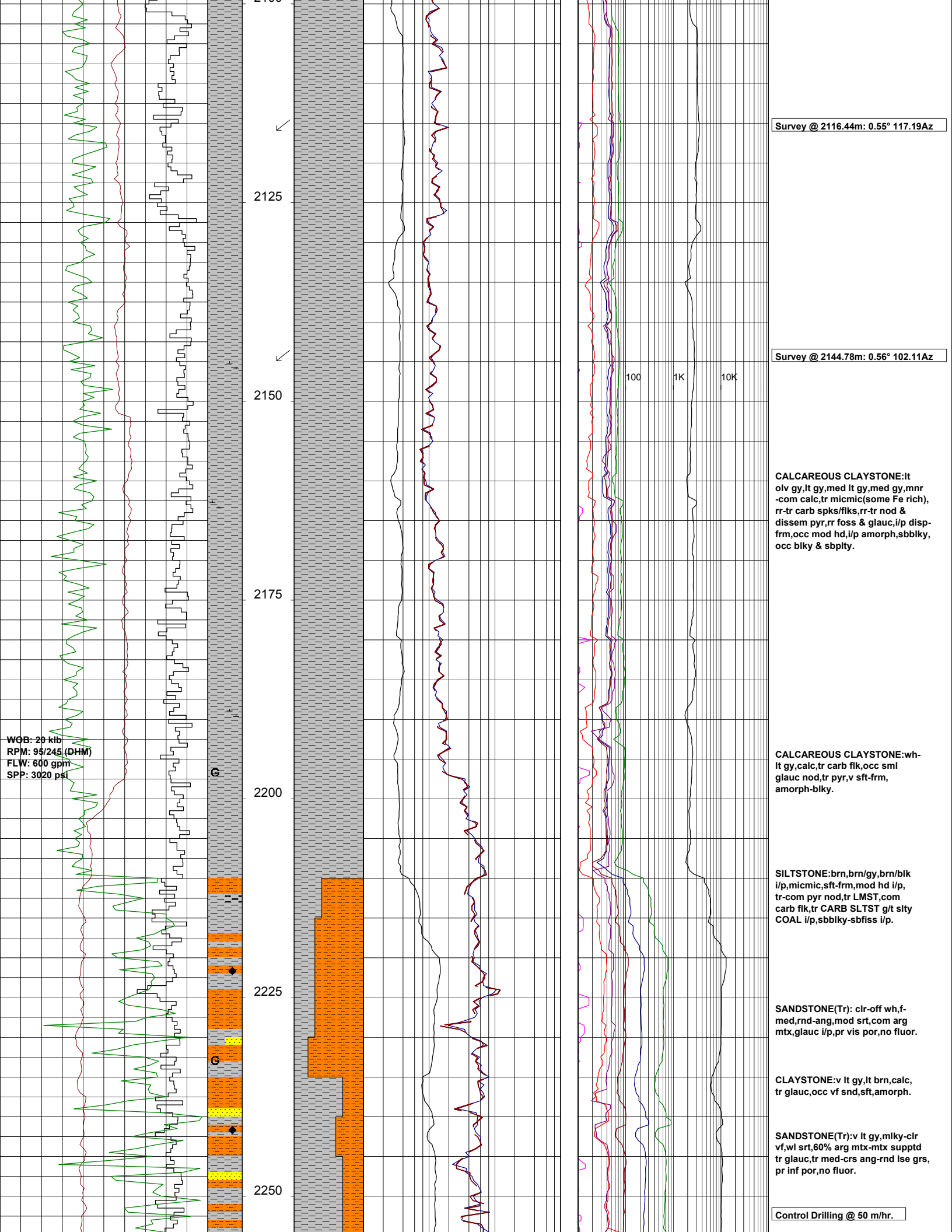
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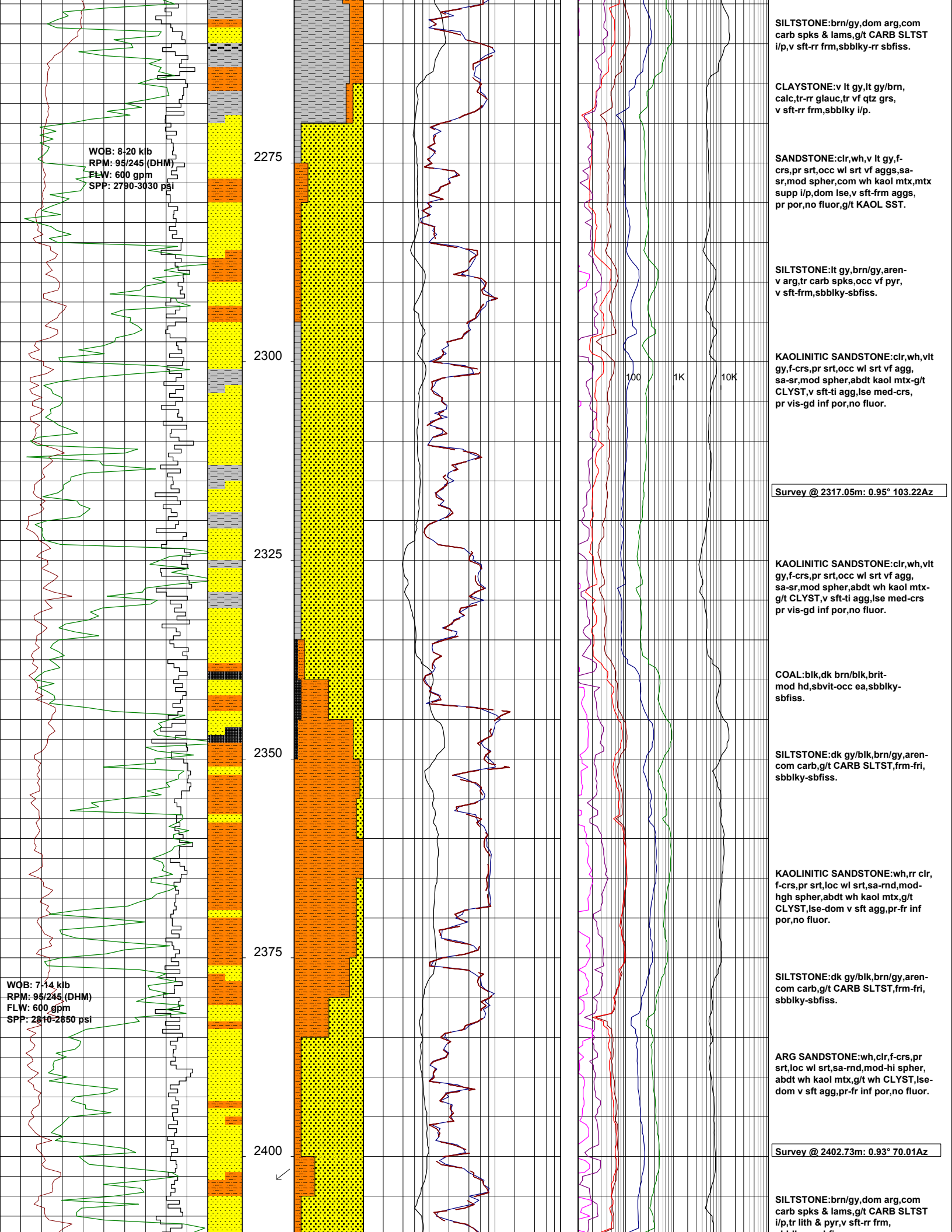
2025

2050

2075

2100





SILTSTONE:brn/gy,dom arg,com carb spks & lams,g/t CARB SLTST i/p,v sft-rr frm,sbbkly-rr sbfiss.

CLAYSTONE:v lt gy,lt gy/brn, calc,tr-rr glauc,tr vf qtz grs, v sft-rr frm,sbbkly i/p.

SANDSTONE:clr,wh,v lt gy,f-crs,pr srt,occ wl srt vf aggs,sa-sr,mod spher,com wh kaol mtx,mtx supp i/p,dom lse,v sft-frm aggs, pr por,no fluor,g/t KAOL SST.

SILTSTONE:lt gy,brn/gy,aren-v arg,tr carb spks,occ vf pyr, v sft-frm,sbbkly-sbfiss.

KAOLINIC SANDSTONE:clr,wh,vit gy,f-crs,pr srt,occ wl srt vf agg,sa-sr,mod spher,abdt kaol mtx-g/t CLYST,v sft-ti agg,lse med-crs, pr vis-gd inf por,no fluor.

Survey @ 2317.05m: 0.95° 103.22Az

KAOLINIC SANDSTONE:clr,wh,vit gy,f-crs,pr srt,occ wl srt vf agg,sa-sr,mod spher,abdt wh kaol mtx-g/t CLYST,v sft-ti agg,lse med-crs pr vis-gd inf por,no fluor.

COAL:blk,dk brn/blk,brit-mod hd,sbvit-occ ea,sbbkly-sbfiss.

SILTSTONE:dk gy/blk,brn/gy,aren-com carb,g/t CARB SLTST,frm-fri, sbbkly-sbfiss.

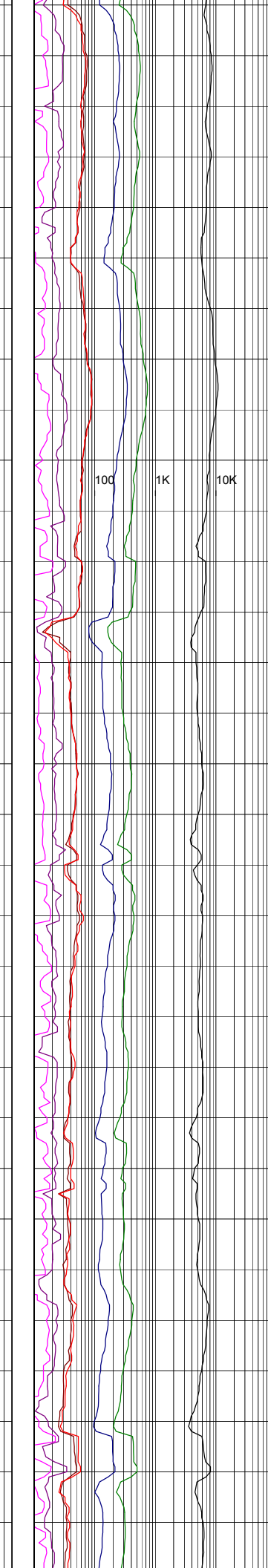
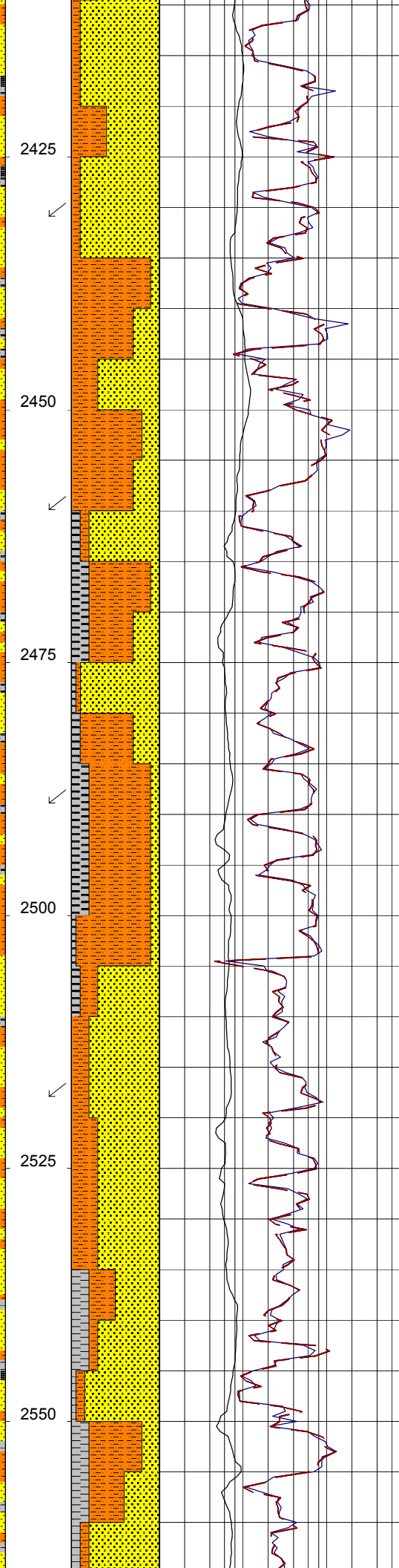
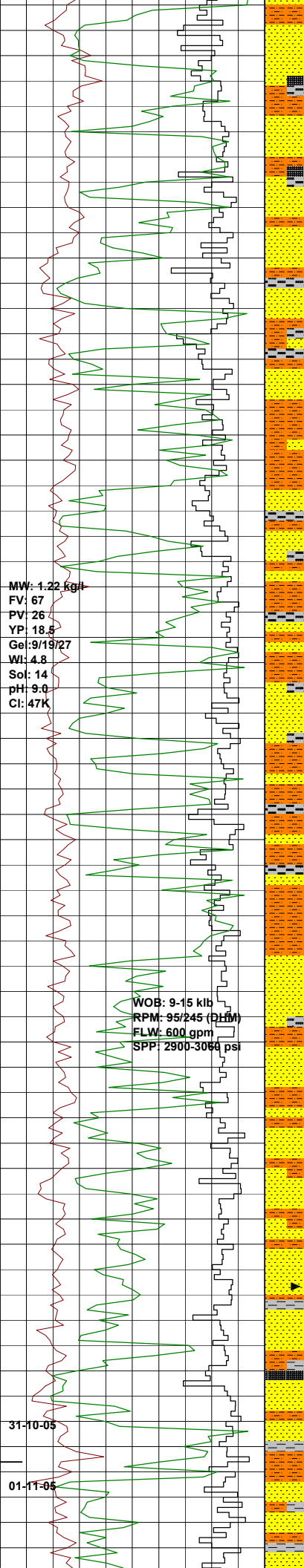
KAOLINIC SANDSTONE:wh,rr clr,f-crs,pr srt,loc wl srt,sa-rnd,mod-hgh spher,abdt wh kaol mtx,g/t CLYST,lse-dom v sft agg,pr-fr inf por,no fluor.

SILTSTONE:dk gy/blk,brn/gy,aren-com carb,g/t CARB SLTST,frm-fri, sbbkly-sbfiss.

ARG SANDSTONE:wh,clr,f-crs,pr srt,loc wl srt,sa-rnd,mod-hi spher, abdt wh kaol mtx,g/t wh CLYST,lse-dom v sft agg,pr-fr inf por,no fluor.

Survey @ 2402.73m: 0.93° 70.01Az

SILTSTONE:brn/gy,dom arg,com carb spks & lams,g/t CARB SLTST i/p,tr lith & pyr,v sft-rr frm,



sbblky-rr sbfiss.

ARG SANDSTONE:clr,wh,v lt gy,f-crs,pr srt,occ wl srt in f aggs,sa-sr,com wh arg mtx-washing out,lse,v sft aggs,pr-fr inf por,no fluor.

Survey @ 2431.36m: 1.07° 70.01Az

COAL:(Tr)blk,dk brn,sity,dll-sbvit,frm-brit,sbblky-plty.

SILTSTONE:brn/gy,dom arg,com carb spks & lams,g/t CARB SLTST i/p,tr lith & pyr,v sft-rr frm, sbblky-rr sbfiss.

ARG SANDSTONE:clr,wh,v lt gy,f-v crs,pr srt,occ fract grs i/p,abdt abdt wh arg mtx,com carb flks,rr glauc,lse-v sft aggs,pr-fr inf por,no fluor.

Survey @ 2460.09m: 1.06° 56.97Az

Filtrate @ 2470m: 0.09ohms @ 75°F

CARB SILTSTONE:blk/dk gy,dk brn blk,frm,sbblky-sbfiss.

ARG SANDSTONE:wh-lt gy,f-v crs,gran i/p,pr srt,sa-sr,ang i/p,com wh arg mtx-washing out i/p,gen lse-rr frm aggs,pr inf por,no fluor.

Survey @ 2488.89m: 1.28° 60.60Az

SILTSTONE:brn/gy,dom arg,com carb spks & lams,g/t CARB SLTST i/p,tr lith & pyr,v sft-rr frm, sbblky-rr sbfiss.

ARG SANDSTONE:wh-lt gy,f-v crs,gran i/p,pr srt,sa-sr,ang i/p,com wh arg mtx-washing out i/p,gen lse-rr frm aggs,pr inf por,no fluor.

Survey @ 2517.63m: 1.41° 56.39Az

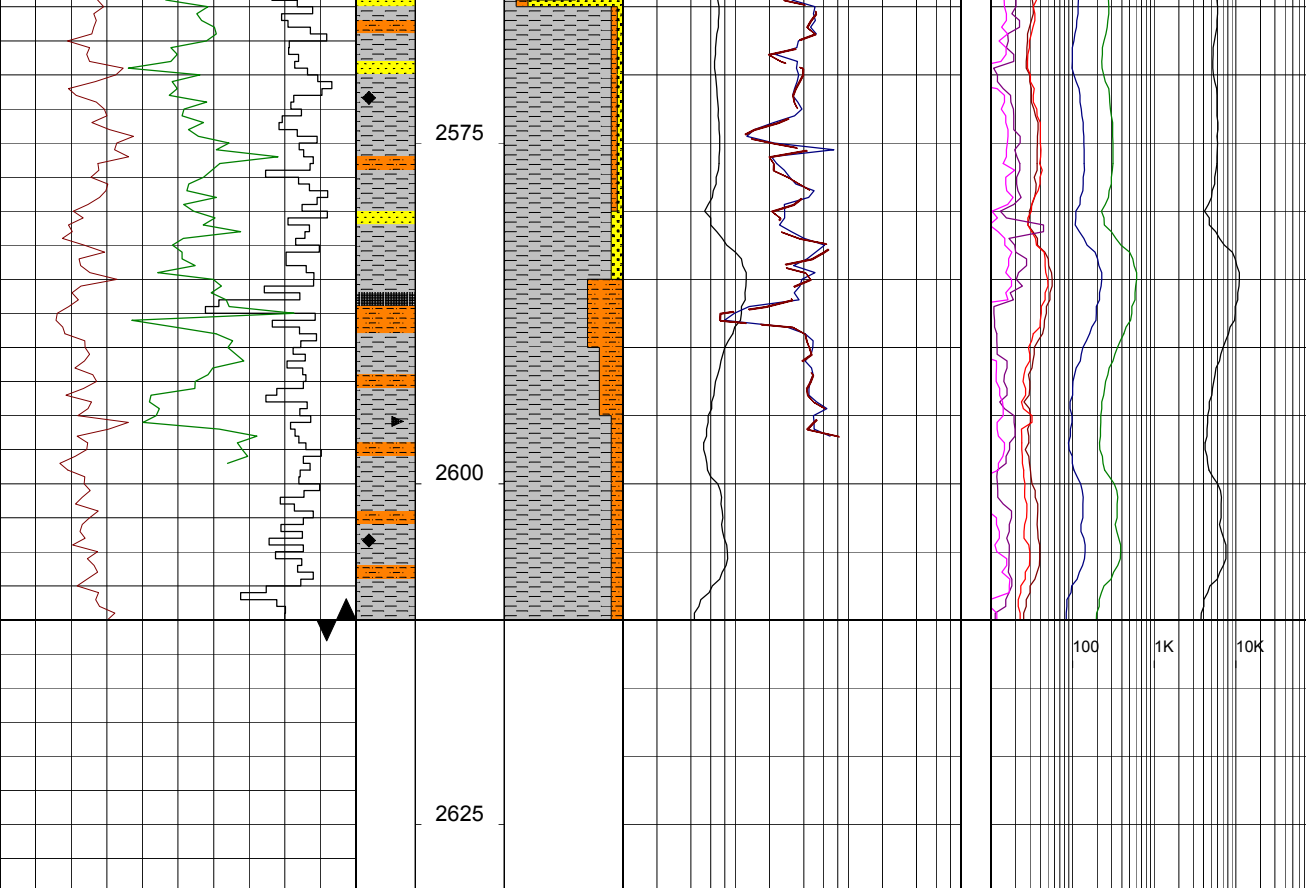
SILTSTONE:brn/gy,dom arg,com carb spks & lams,g/t CARB SLTST i/p,tr lith & pyr,v sft-rr frm, sbblky-rr sbfiss.

COAL(Tr):blk-dk brn,sity,shiny-dll mat,sbvit,frm-brit,sbblky-plty.

CLAYSTONE:lt olv gy-gy,rr sity i/p,mod calc i/p,tr micmic,tr carb lams,tr micro-pyr,sft-frm,sbblky.

ARG SANDSTONE:wh-lt gy,f-med,mod srt,sa-sr,tr wk calc cmt,tr nod & dissemin pyr,gen lse-rr fri aggs,pr vis & mod inf por,no fluor.

31-10-05
01-11-05



CLAYSTONE:lt olv gy-gy,sft-frm,
rr slty grns,mildly calc i/p,tr
micmic,tr mic-pyr,tr carb lam.sft-
amorph,sbblky i/p.

COAL(Tr):brnsh blk,sli arg i/p,
dom shiny,svvit,frm-brit,plty-blky.

CLAYSTONE:lt olv gy-gy,rr slty
i/p,mod calc i/p,tr micmic,tr carb
lams,tr micro-pyr,sft-frm,sbblky.

FUR SEAL-1 reached TD of 2610m
at 01:45 on the 01-11-05.

DRILLERS DEPTH: 2610m
LOGGERS DEPTH: 2600m stop.

ELECTRIC LOGS:
RUN 1: VSP.

2575

2600

2625

100 1K 10K

