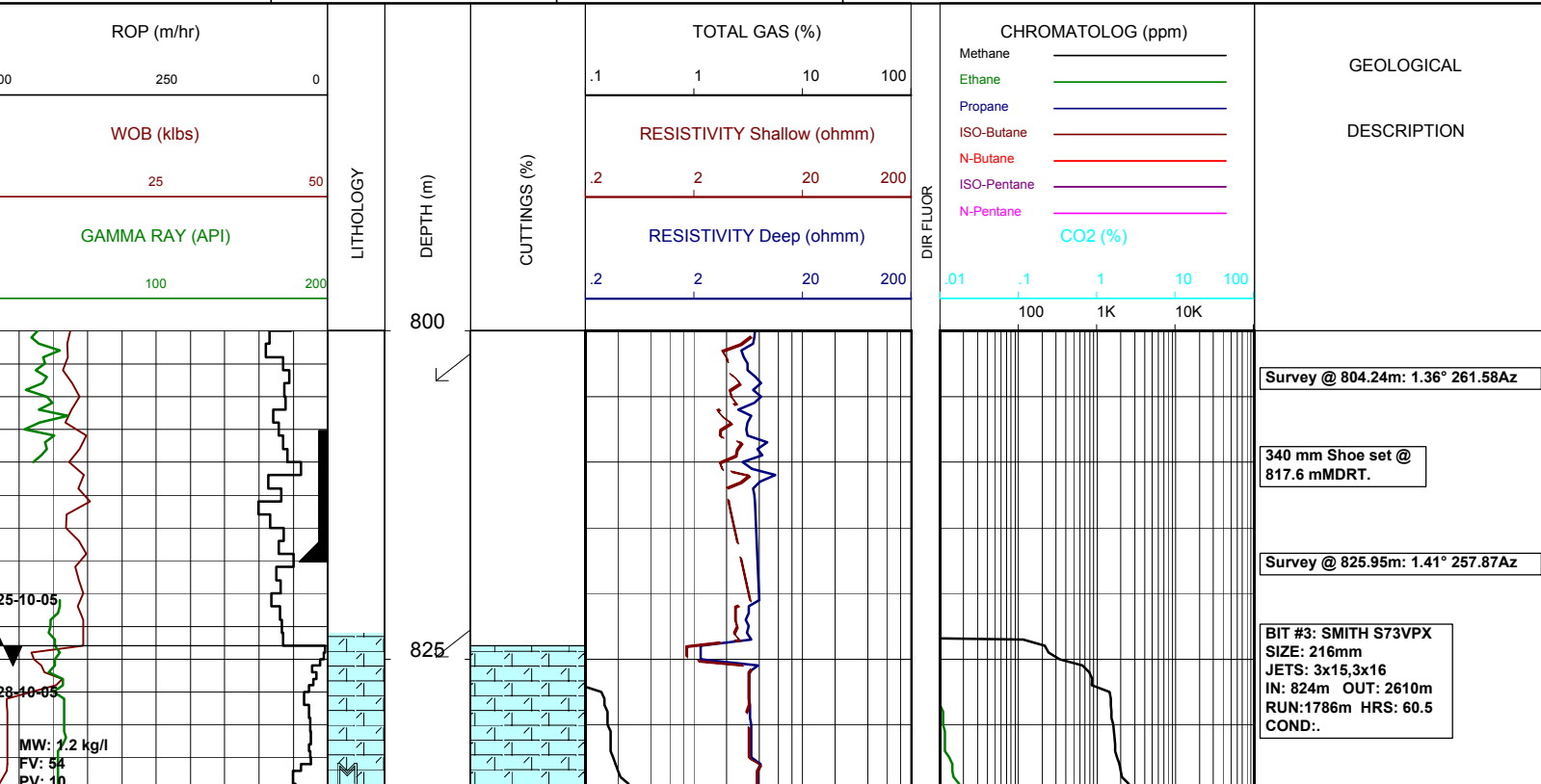
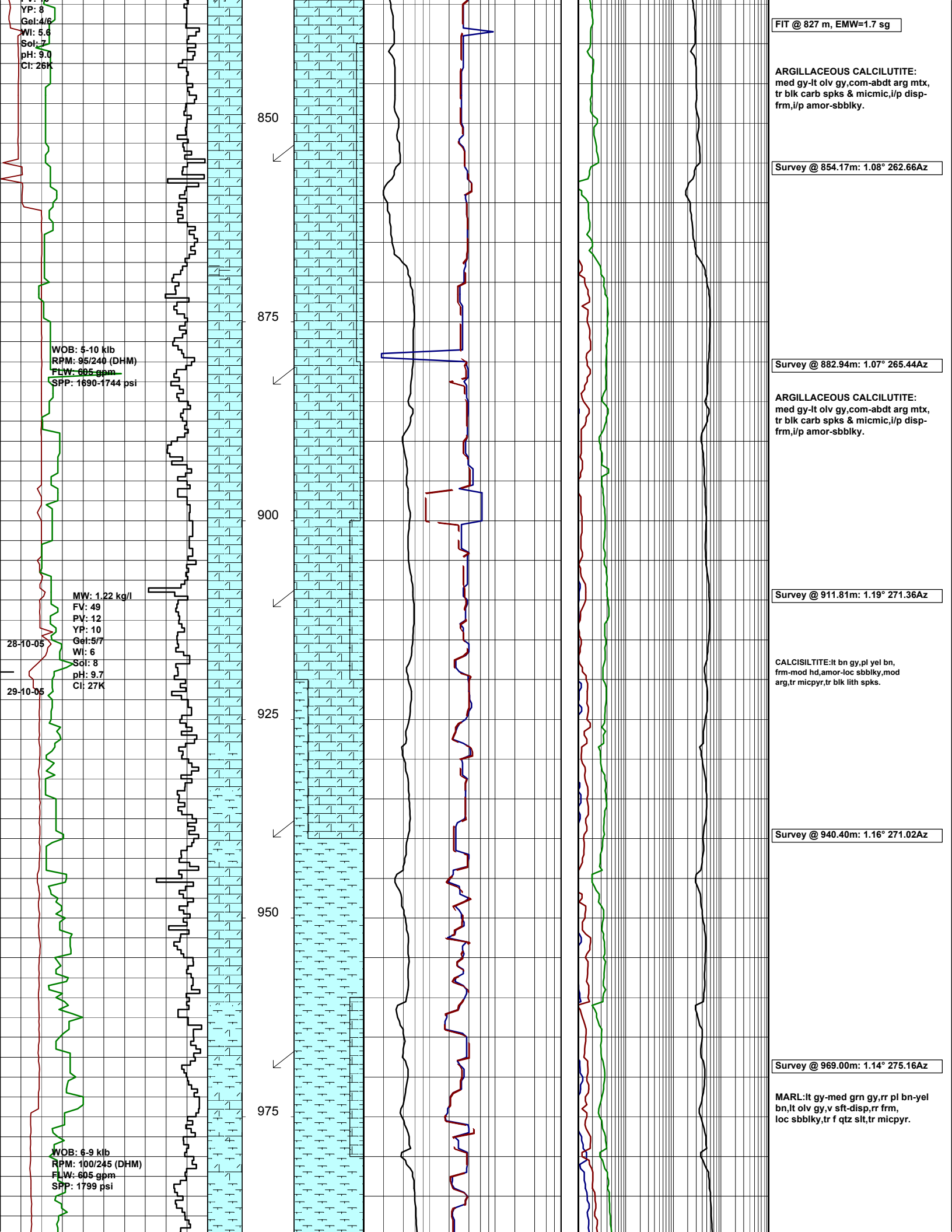
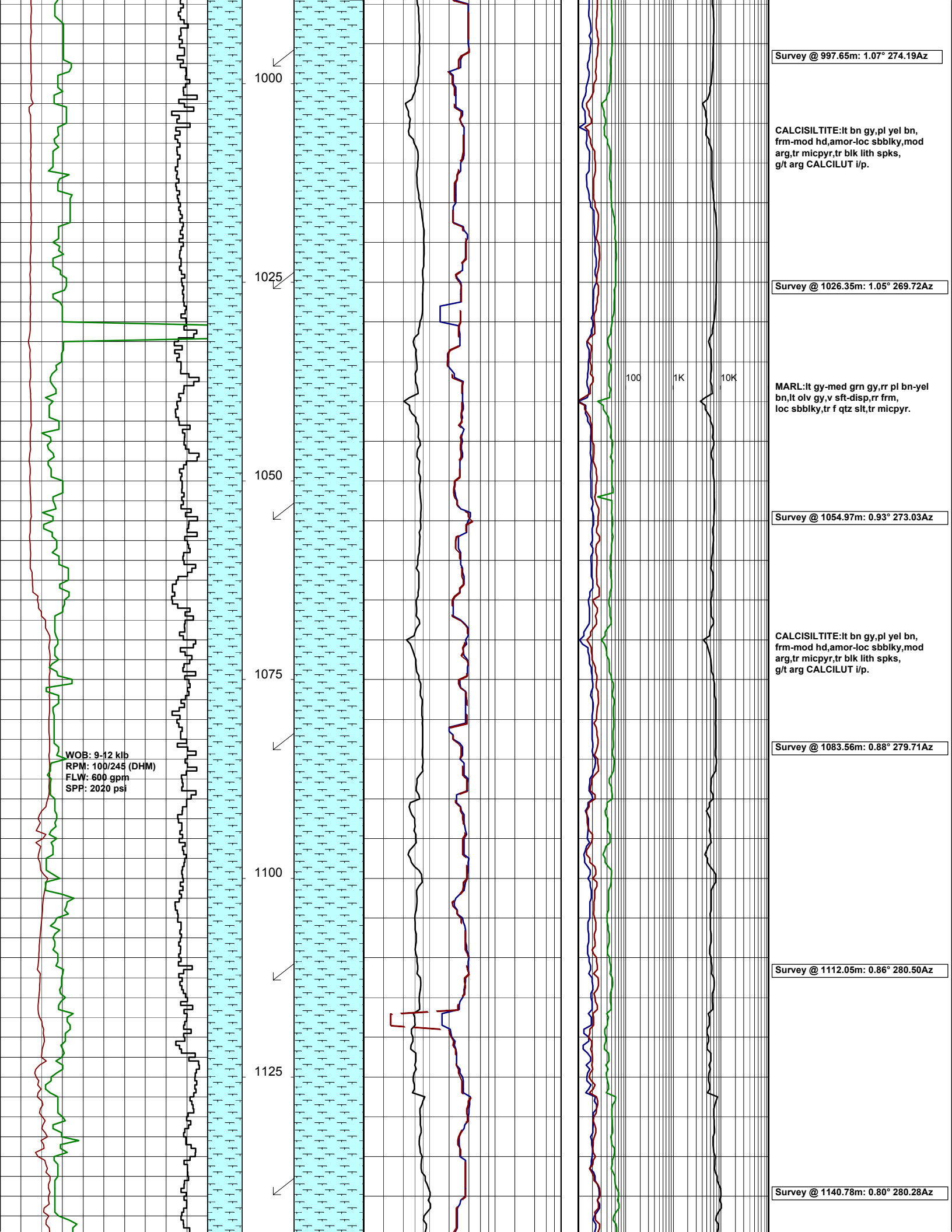


Field : SUNFISH	AHD - RT (m) : 21.5	Rig : OCEAN PATRIOT	Open Hole:	Cased Hole:	Engineers :D.ADDERLEY
Permit: VIC/P-54	Seabed - AHD (m) : 58.6	Spud date : 24-10-05	914 mm 111.69 m	762 mm 78.1 m	P.McGILVERAY
State : VICTORIA	Seabed - RT (m) : 80.1	TD date :	406 mm 824.0 m	340 mm 817.6 m	A.DUNN
Country : AUSTRALIA	Lat. : 38 07 47.91 S	Total depth :	216 mm		
Scale : 1/ 500	Long. : 148 09 08.44E	Final status :			

LITHOLOGY	ACCESSORIES	DRILLING DATA	ABBREVIATIONS																																				
<ul style="list-style-type: none"> <li> Conglomerate</li> <li> Coarse Sandstone</li> <li> Med Sandstone</li> <li> Fine Sandstone</li> <li> VF Sandstone</li> <li> Claystone</li> <li> Carb. Siltstone</li> <li> Calc. Siltstone</li> <li> Siltstone</li> <li> Limestone</li> <li> Dolomite</li> <li> Coal</li> <li> Calclutite</li> <li> Calcsiltite</li> <li> Calcarenite</li> <li> Volcanic</li> <li> Metamorphic</li> <li> Cement</li> </ul>	<ul style="list-style-type: none"> <li> Pyrite</li> <li> Siderite</li> <li> Glauconite</li> <li> Feldspar</li> <li> Mica</li> <li> Ferrous</li> <li> Chert</li> <li> Calcareous</li> <li> Dolomitic</li> <li> Carbonaceous</li> <li> Lithoclast</li> <li> Breccia</li> <li> Foraminifera</li> <li> Corals</li> <li> Inoceramus</li> <li> Bryozoa</li> <li> Plant remains</li> <li> Fossils</li> </ul>	<ul style="list-style-type: none"> <li> Casing Shoe</li> <li> Bit Trip</li> <li> Wiper Trip</li> <li> Core</li> <li> DST</li> <li> Deviation Survey</li> </ul>	<p><b>ABBREVIATIONS</b></p> <table border="0"> <tr> <td>BOPD - Barrels of Oil Per Day</td> <td>OG - Over Gauge</td> </tr> <tr> <td>BWPD - Barrels of Water Per Day</td> <td>OH - Open Hole</td> </tr> <tr> <td>CG - Connection Gas</td> <td>OTS - Oil To Surface</td> </tr> <tr> <td>CO - Circulate Out</td> <td>Q - Flow Rate</td> </tr> <tr> <td>COND - Condensate</td> <td>REC - Recovery</td> </tr> <tr> <td>c/c - Crush Cut</td> <td>Rmf - Resistivity mud filtrate</td> </tr> <tr> <td>DST - Drill Stem Test</td> <td>ROP - Rate Of Penetration</td> </tr> <tr> <td>FLOW - Flow Rate (gal/min)</td> <td>RPM - Revolutions Per Minute</td> </tr> <tr> <td>GCM - Gas Cut Mud</td> <td>RTSTM- Rate Too Small To Measure</td> </tr> <tr> <td>GCW - Gas Cut Water</td> <td>Rw - Resistivity water</td> </tr> <tr> <td>GTS - Gas To Surface</td> <td>r/r - ring residue</td> </tr> <tr> <td>INJ - Injection of Mist (bbls/hr)</td> <td>SCFM - Standard Cubic Ft/Min (air)</td> </tr> <tr> <td>LCM - Lost Circulation Material</td> <td>SGCM - Slightly Gas Cut Mud</td> </tr> <tr> <td>MMCFD- Million Cubic Feet / Day</td> <td>SPM - Strokes Per Minute</td> </tr> <tr> <td>NGTS - No Gas To Surface</td> <td>SPP - Stand Pipe Pressure</td> </tr> <tr> <td>NOTS - No Oil To Surface</td> <td>SWC - Side-Wall Core</td> </tr> <tr> <td>NR - No Returns</td> <td>TG - Trip Gas</td> </tr> <tr> <td>OCM - Oil Cut Mud</td> <td>WOB - Weight On Bit</td> </tr> </table>	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
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		<p><b>MUD DATA</b></p> <ul style="list-style-type: none"> <li>MW - Mud Weight (lb/gal)</li> <li>FV - Funnel Viscosity (s/qt)</li> <li>PV - Plastic Viscosity (cps)</li> <li>YP - Yield Point (lb/100ftsq)</li> <li>Gel - Gel Strength (10sec)</li> <li>WL - Water Loss (cc/30min)</li> <li>pH - Acidity / Alkalinity</li> <li>Ck - Cake (32nd/inch)</li> <li>Sol - Solids (% vol)</li> <li>Cl - Chlorides (mg/l)</li> </ul>																																					







Survey @ 997.65m: 1.07° 274.19Az

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

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 slit,tr micpyr.

Survey @ 1054.97m: 0.93° 273.03Az

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

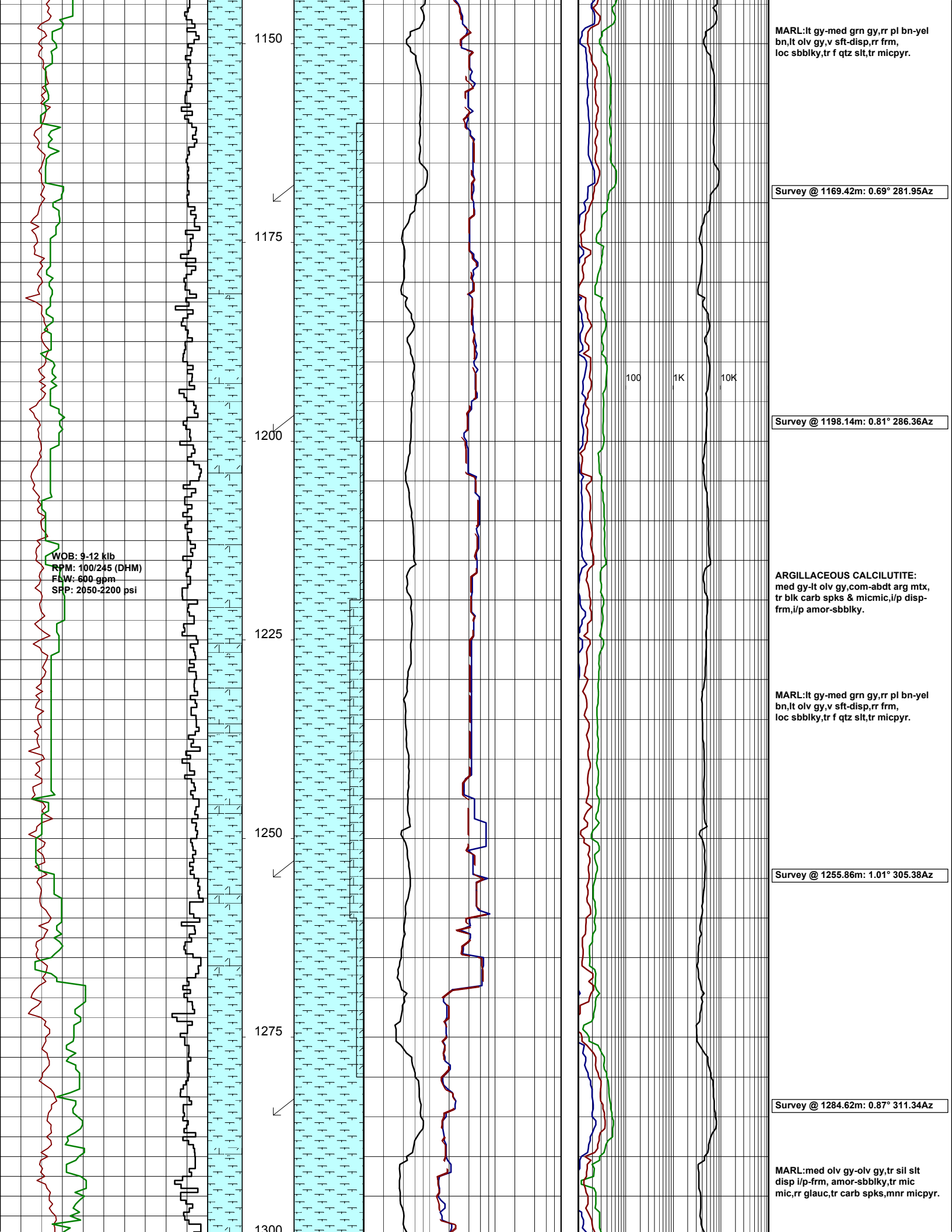
Survey @ 1083.56m: 0.88° 279.71Az

Survey @ 1112.05m: 0.86° 280.50Az

Survey @ 1140.78m: 0.80° 280.28Az

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

100 1K 10K



MARL: it 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 @ 1169.42m: 0.69° 281.95Az

Survey @ 1198.14m: 0.81° 286.36Az

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

MARL: it 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 @ 1255.86m: 1.01° 305.38Az

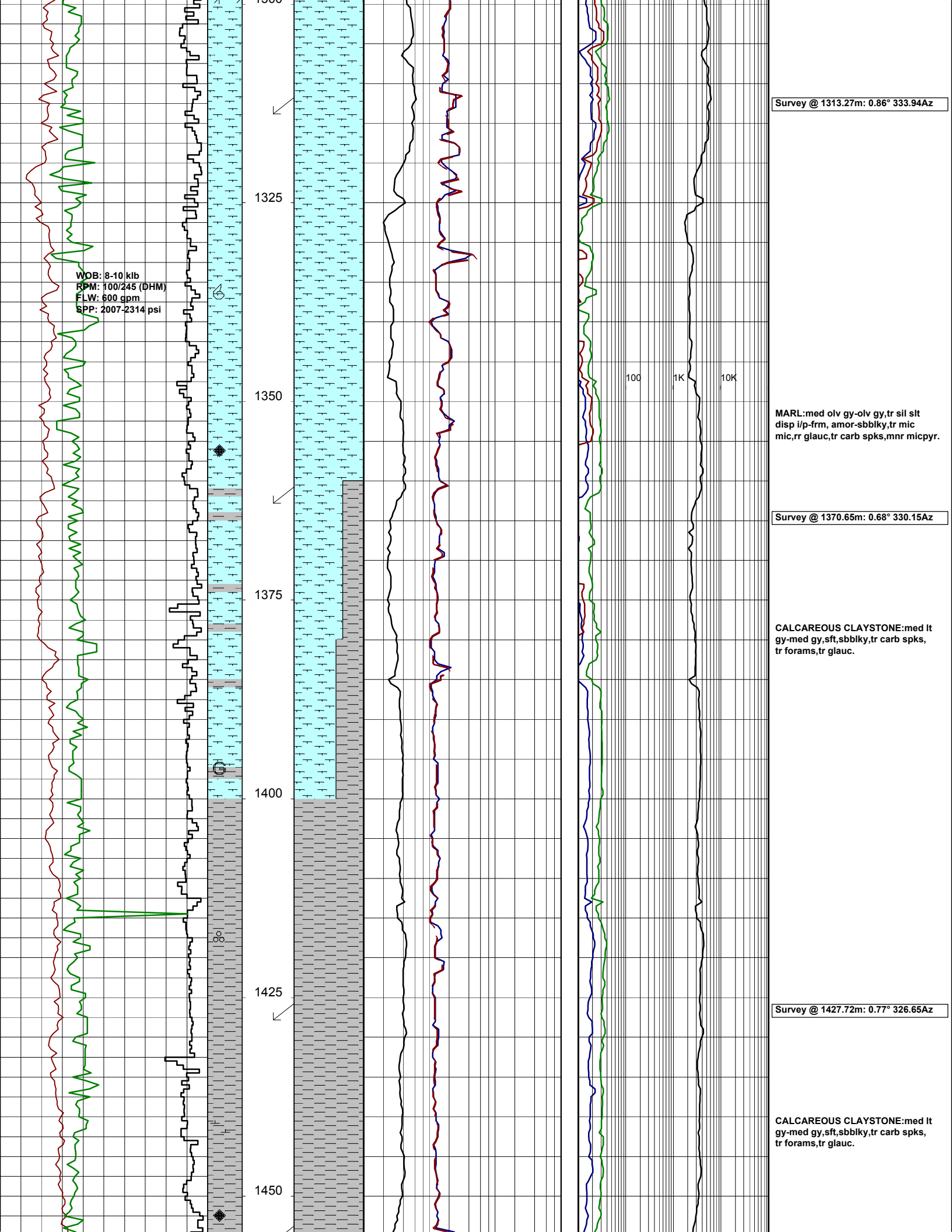
Survey @ 1284.62m: 0.87° 311.34Az

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

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

100 1K 10K

1150  
1175  
1200  
1225  
1250  
1275  
1300



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

Survey @ 1313.27m: 0.86° 333.94Az

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

Survey @ 1370.65m: 0.68° 330.15Az

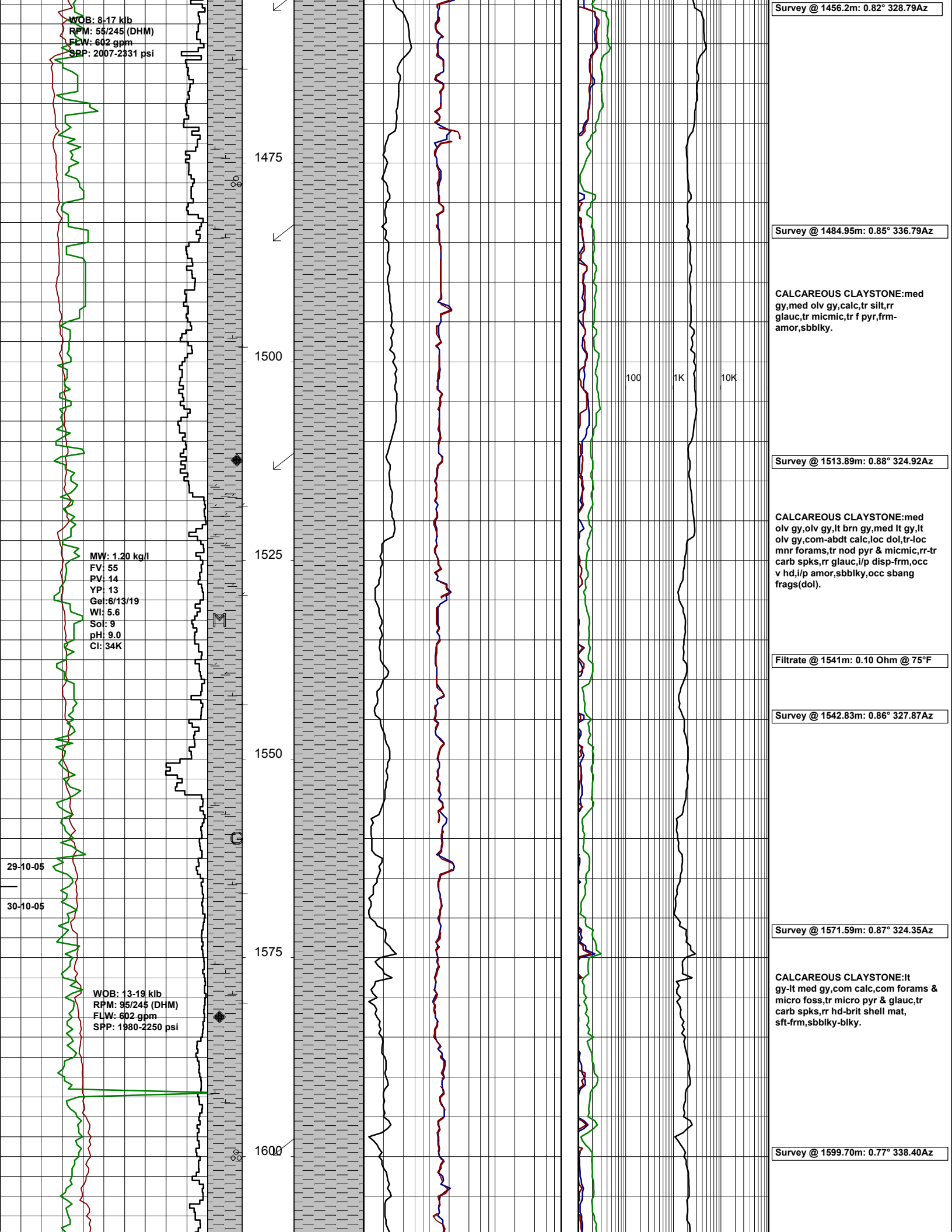
CALCAREOUS CLAYSTONE: med lt  
 gy-med gy, sft, sbblky, tr carb spks,  
 tr forams, tr glauc.

Survey @ 1427.72m: 0.77° 326.65Az

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

100 1K 10K

1300  
1325  
1350  
1375  
1400  
1425  
1450



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

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-  
 amor,sbblky.

100 1K 10K

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  
 mnr forams,tr nod pyr & micmic,rr-tr  
 carb spks,rr glauc,i/p disp-frm,occ  
 v hd,i/p amor,sbblky,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,sbblky-blky.

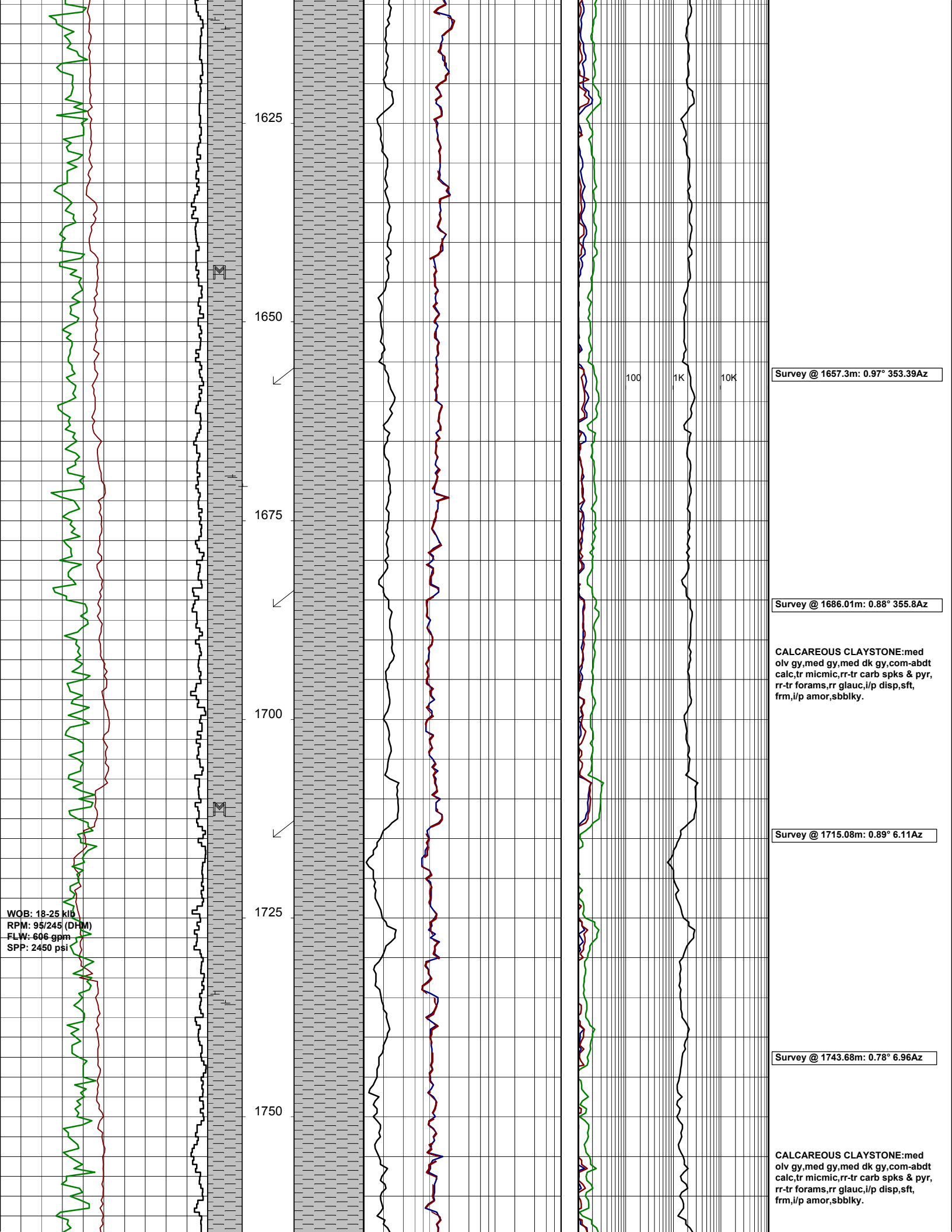
Survey @ 1599.70m: 0.77° 338.40Az

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

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

29-10-05  
 30-10-05

1475  
 1500  
 1525  
 1550  
 1575  
 1600



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

1625

1650

1675

1700

1725

1750

100 1K 10K

Survey @ 1657.3m: 0.97° 353.39Az

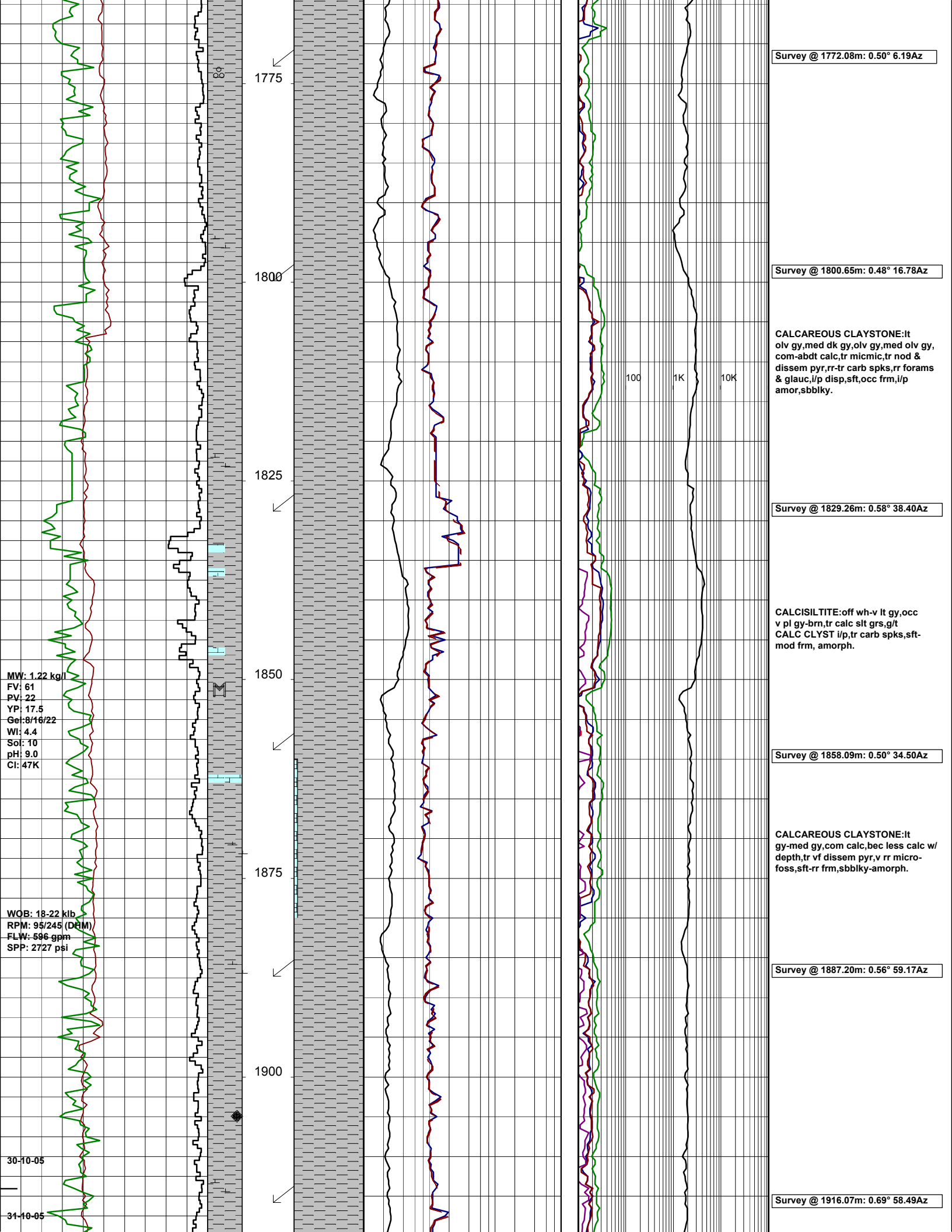
Survey @ 1686.01m: 0.88° 355.8Az

**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 amor,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 amor,sbblky.



Survey @ 1772.08m: 0.50° 6.19Az

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 & disse pyr,rr-tr carb spks,rr forams & glauc,i/p disp,sft,occ frm,i/p amor,sbblky.

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 disse pyr,v rr micro-foss,sft-rr frm,sbblky-amorph.

Survey @ 1887.20m: 0.56° 59.17Az

Survey @ 1916.07m: 0.69° 58.49Az

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

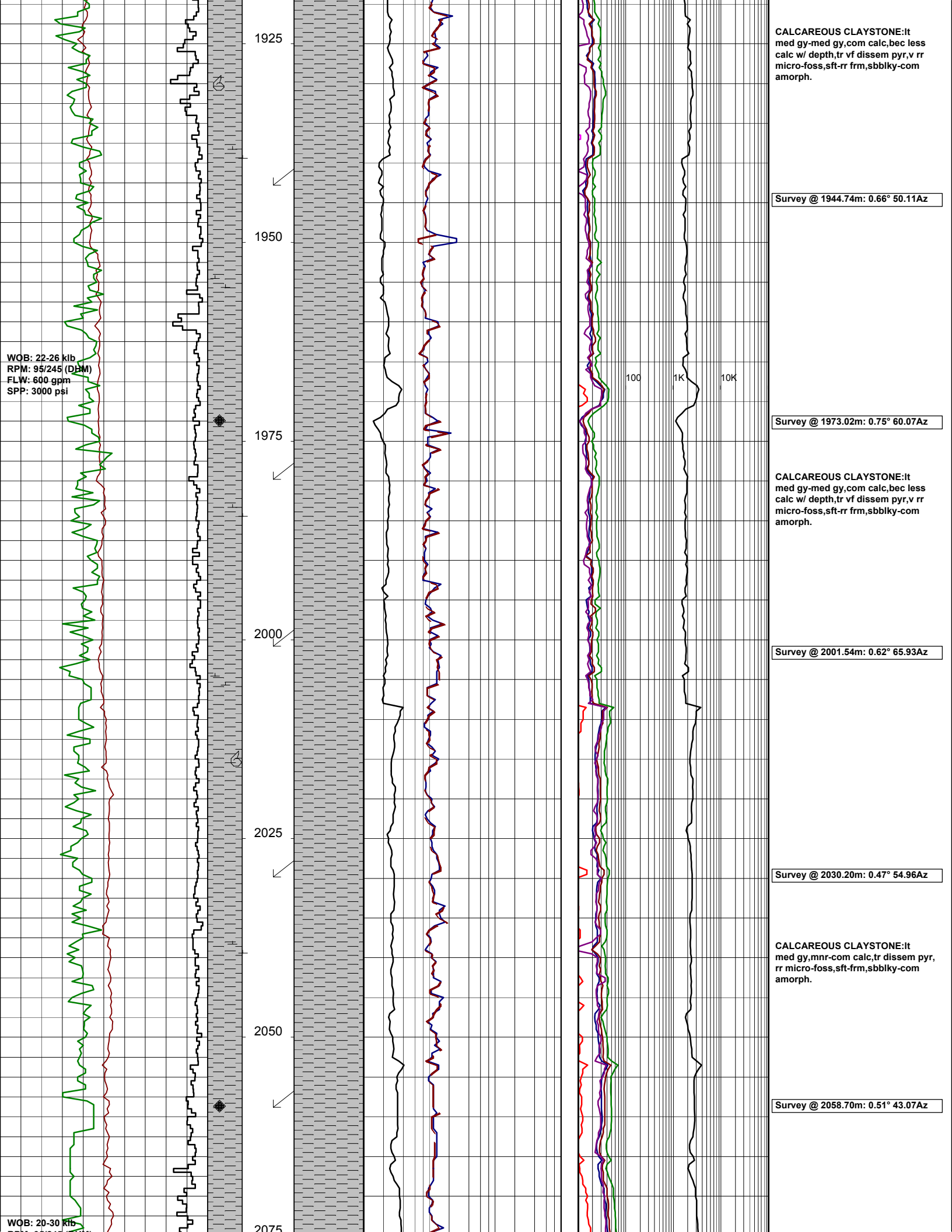
WOB: 18-22 klb  
 RPM: 95/245 (DRM)  
 FLW: 596 gpm  
 SPP: 2727 psi

30-10-05

31-10-05

100 1K 10K

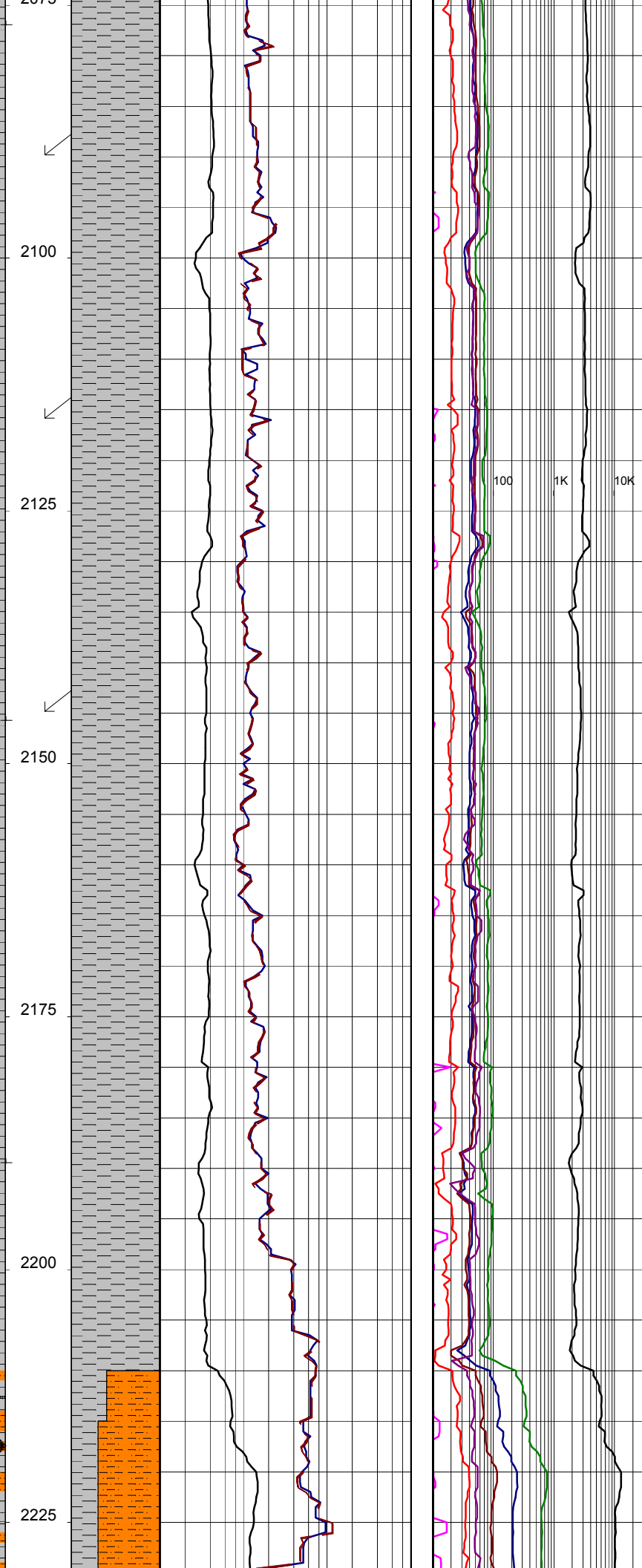




RPM: 95/245 (DHM)  
FLW: 600 gpm  
SPP: 3000 psi

WOB: 20 klb  
RPM: 95/245 (DHM)  
FLW: 600 gpm  
SPP: 3020 psi

G



Survey @ 2087.39m: 0.51° 81.71Az

Survey @ 2116.44m: 0.55° 117.19Az

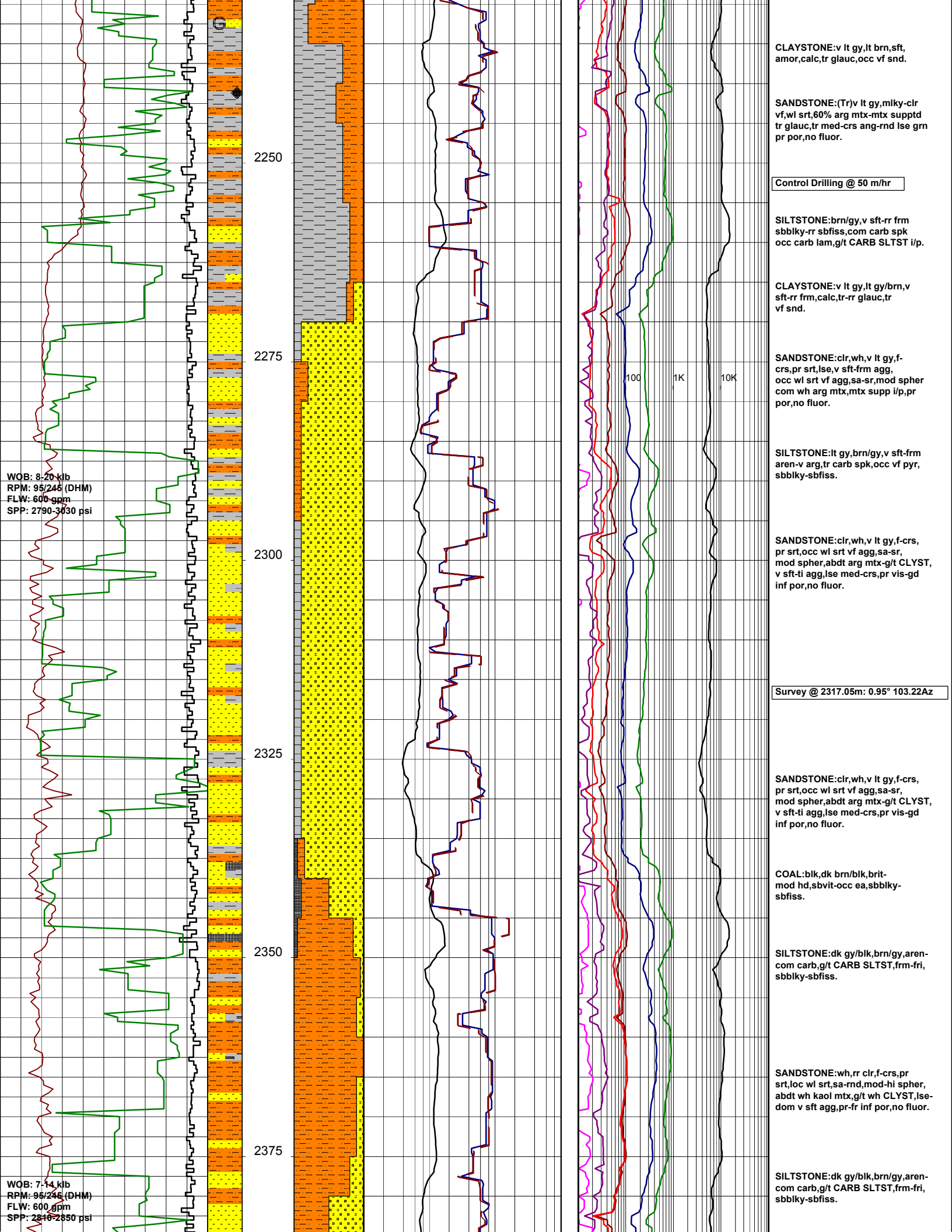
Survey @ 2144.78m: 0.56° 102.11Az

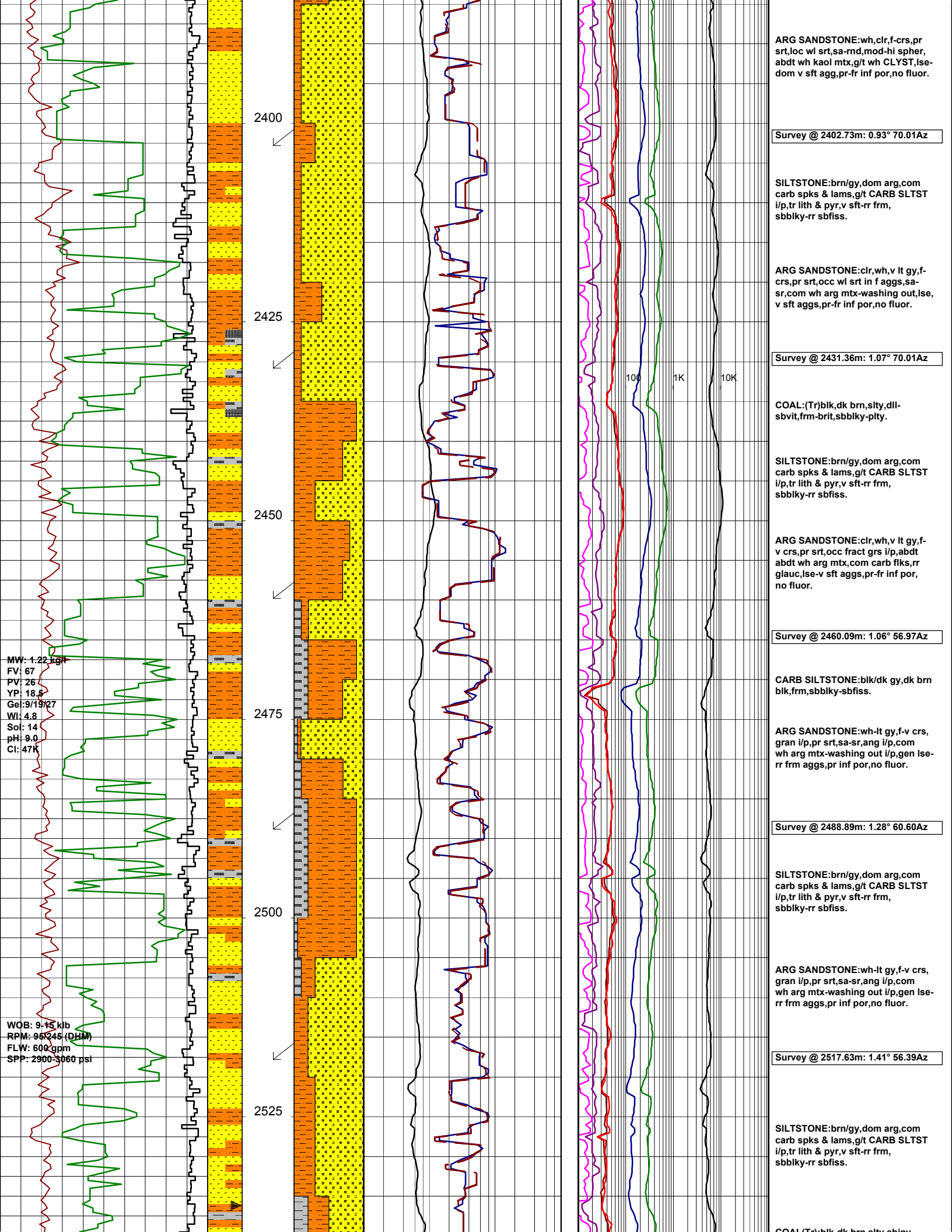
**CALCAREOUS CLAYSTONE:**lt olv gy,lt gy,med lt gy,med gy,mnr -com calc,tr micmic(some Fe rich), rr-tr carb spks/flks,rr-tr nod & dissep pyr,rr foss & glauc,i/p dispfrm,occ mod hd,i/p amorph,sbbiky, occ blkly & sbply.

**CALCAREOUS CLAYSTONE:**wh- lt gy,calc,tr carb flk,com glauc i/p,tr pyr,v sft frm,amor-blky.

**SANDSTONE:**(Tr) clr-off wh,f-med,rnd-ang,mod srt,com arg mtx,glauc i/p,pr vis por,no flr.

**SILTSTONE:**brn,brn/gy,brn/blk i/p,micmic,sft frm,mod hd i/p, tr-com pyr nod,tr L/st,com carb flk,tr CARB SLTST g/t stly COAL i/p,sbbiky-sbfi ss i/p.





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-pty.

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

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,dll-sbvit,frm-brit,sbblky-pty.

MW: 1.22 kg/l  
 FV: 67  
 PV: 26  
 YP: 18.5  
 Gel: 9/19/27  
 WI: 4.8  
 Sol: 14  
 pH: 9.0  
 CI: 47K

WOB: 9-15 klb  
 RPM: 95246 (DHM)  
 FLW: 600 gpm  
 SPP: 2900-3060 psi

100 1K 10K

