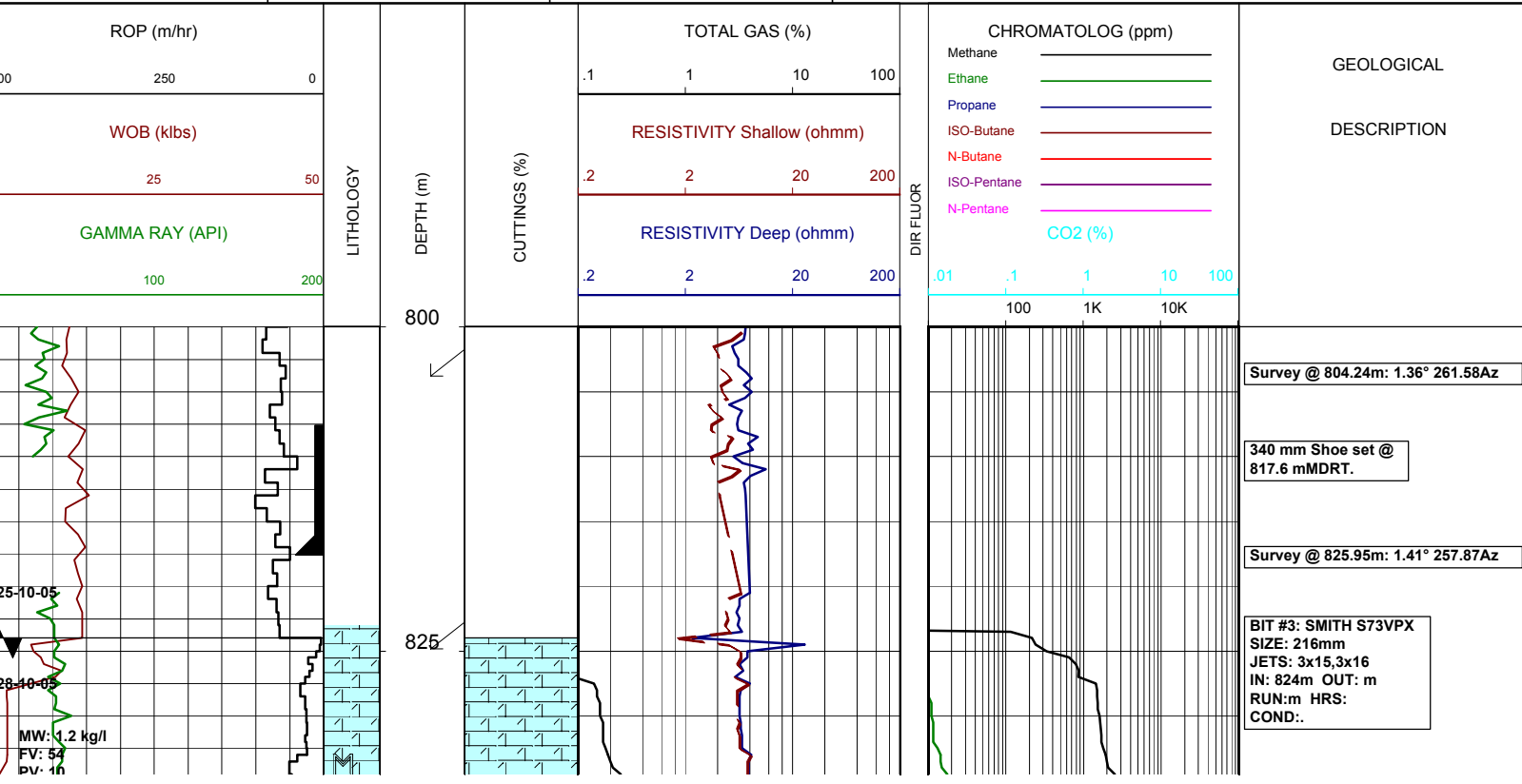
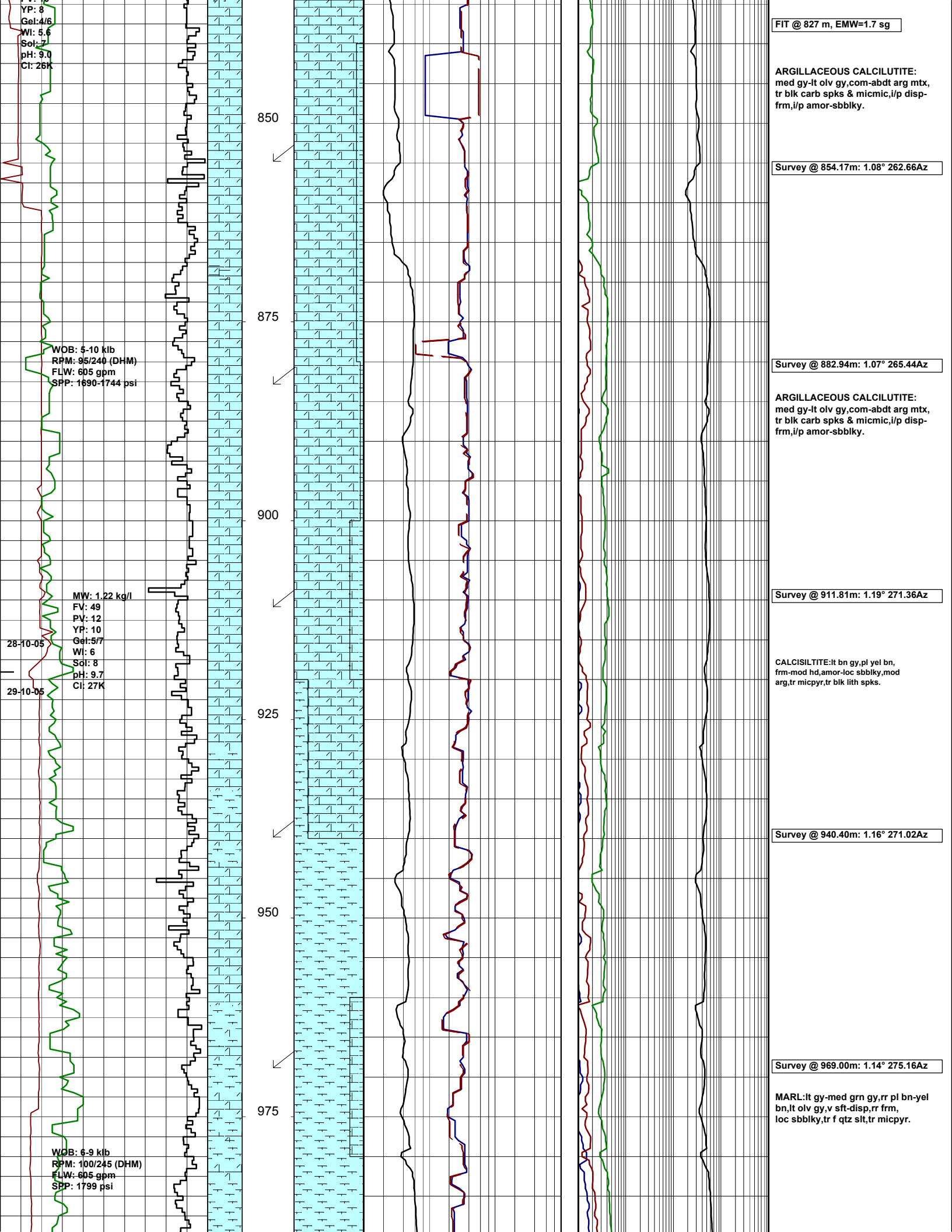


Field : SUNFISH	AHD - RT (m) : 21.5	Rig : OCEAN PATRIOT	Open Hole:	Cased Hole:	Engineers :D.ADDERLEY
Permit: VIC/P-54	Seabed - AHD (m) : 58.6	Spud date : 24-10-05	914 mm 111.69 m	762 mm 78.1 m	P.McGILVERAY
State : VICTORIA	Seabed - RT (m) : 80.1	TD date :	406 mm 824.0 m	340 mm 817.6 m	A.DUNN
Country : 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> <p>MW - Mud Weight (lb/gal)</p> <p>FV - Funnel Viscosity (s/qt)</p> <p>PV - Plastic Viscosity (cps)</p> <p>YP - Yield Point (lb/100ftsq)</p> <p>Gel - Gel Strength (10sec)</p> <p>WL - Water Loss (cc/30min)</p> <p>pH - Acidity / Alkalinity</p> <p>Ck - Cake (32nd/inch)</p> <p>Sol - Solids (% vol)</p> <p>Cl - Chlorides (mg/l)</p>																																					





YP: 8  
Gel: 4/6  
WI: 5.6  
Sol: 7  
pH: 9.0  
Cl: 26K

FIT @ 827 m, EMW=1.7 sg

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

Survey @ 854.17m: 1.08° 262.66Az

WOB: 5-10 klb  
RPM: 95/240 (DHM)  
FLW: 605 gpm  
SPP: 1690-1744 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 amor-sbbkly.

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

Survey @ 911.81m: 1.19° 271.36Az

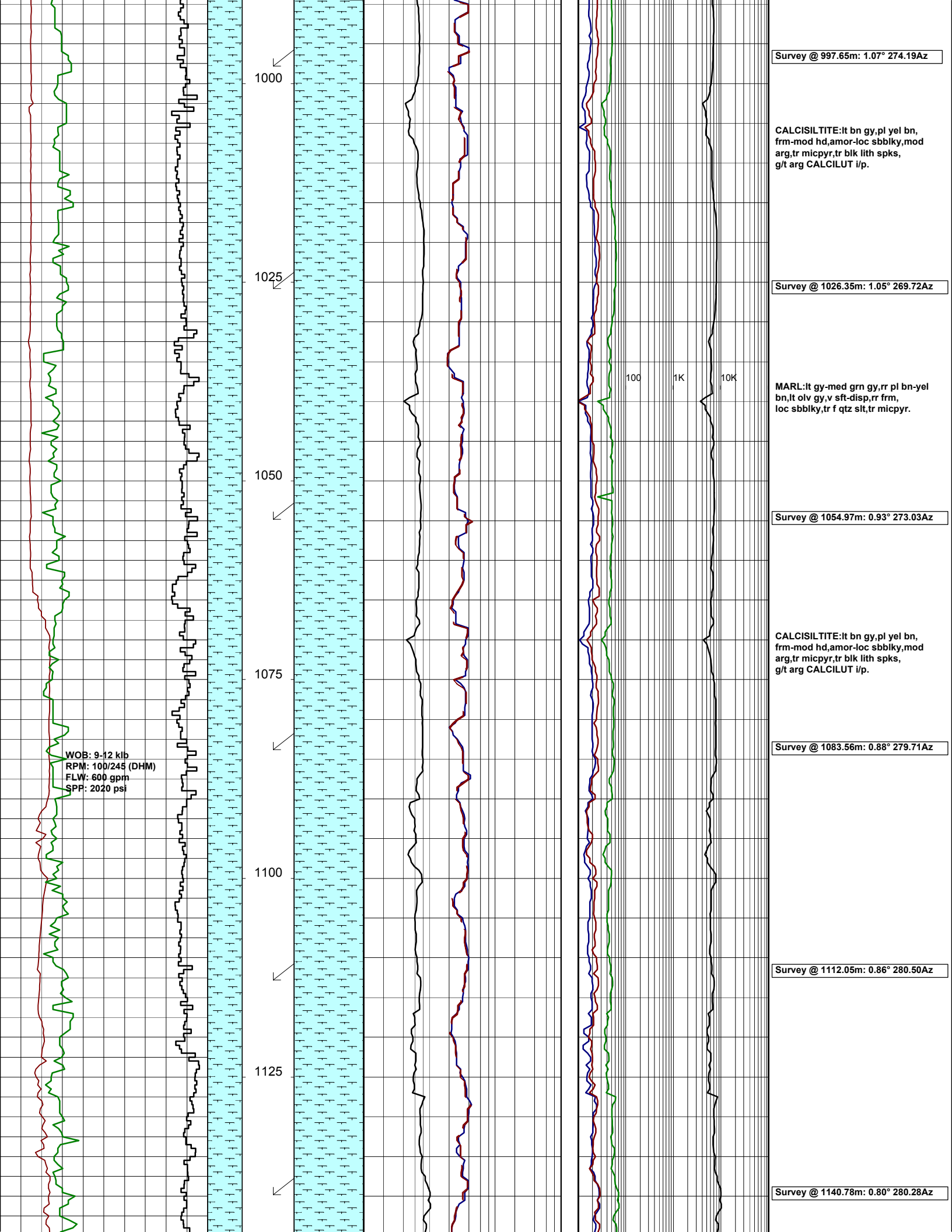
CALCISILTITE:lt bn gy,pl yel bn,  
frm-mod hd,amor-loc sbbkly,mod  
arg,tr micpyr,tr blk lith spks.

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 slt,tr micpyr.

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



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

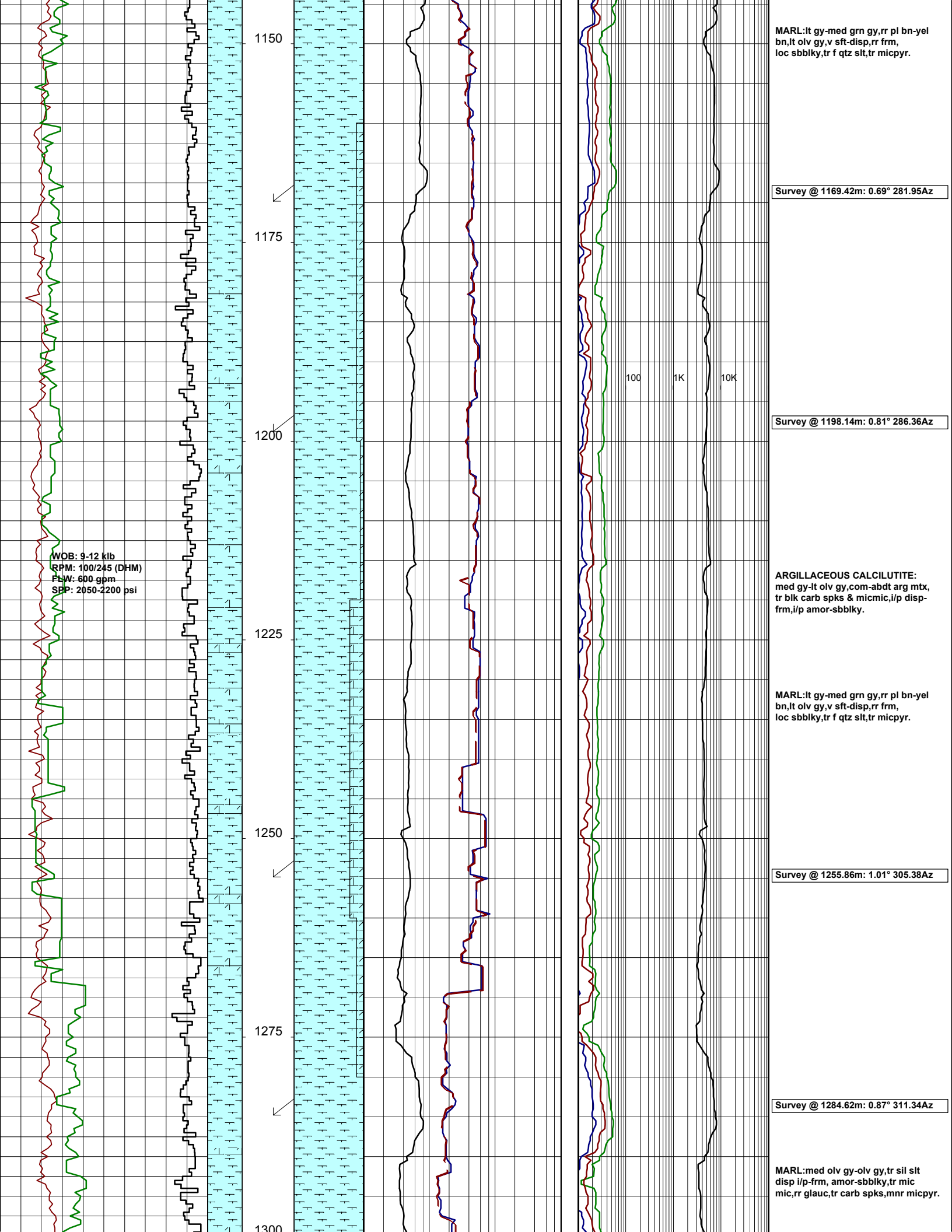
Survey @ 1112.05m: 0.86° 280.50Az

Survey @ 1140.78m: 0.80° 280.28Az

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

1000  
1025  
1050  
1075  
1100  
1125

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 slt,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 slt,tr micpyr.

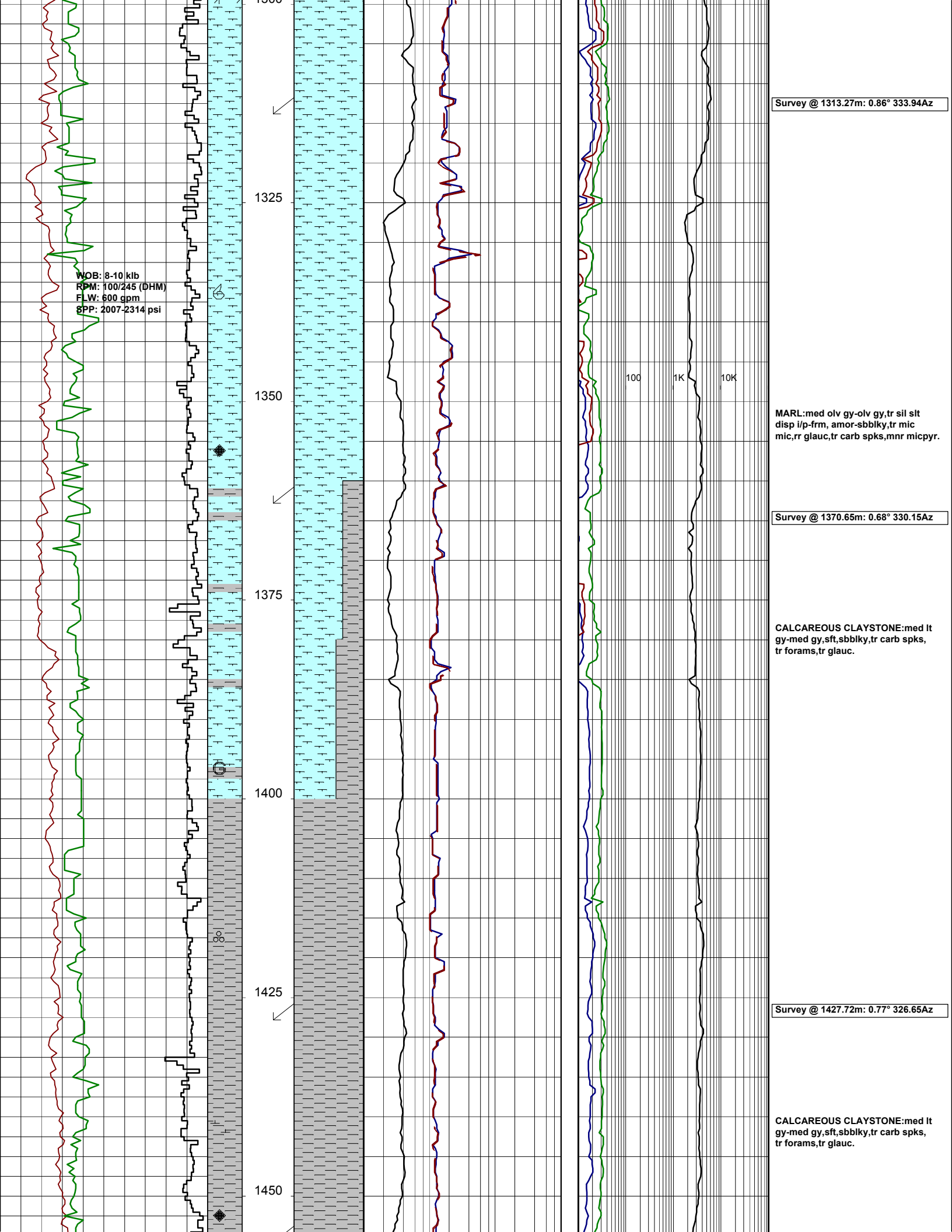
Survey @ 1255.86m: 1.01° 305.38Az

Survey @ 1284.62m: 0.87° 311.34Az

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

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

100 1K 10K



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 slt  
 disp i/p-frm, amor-sbblky, tr mic  
 mic, rr glauc, tr carb spks, mnr micpyr.

Survey @ 1370.65m: 0.68° 330.15Az

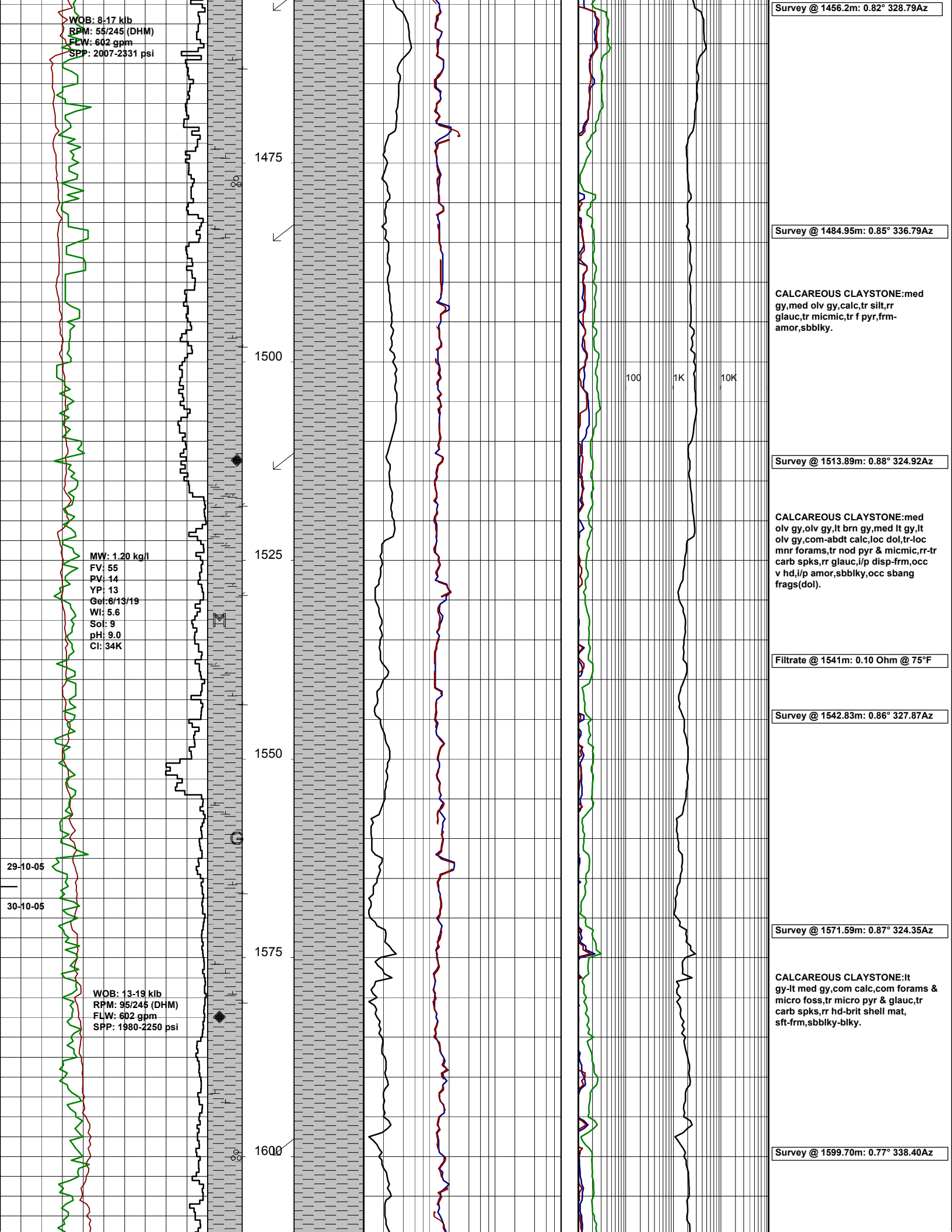
**CALCAREOUS CLAYSTONE:** med lt  
 gy-med gy, sft, sbblky, tr carb spks,  
 tr forams, tr glauc.

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

1330  
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.

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

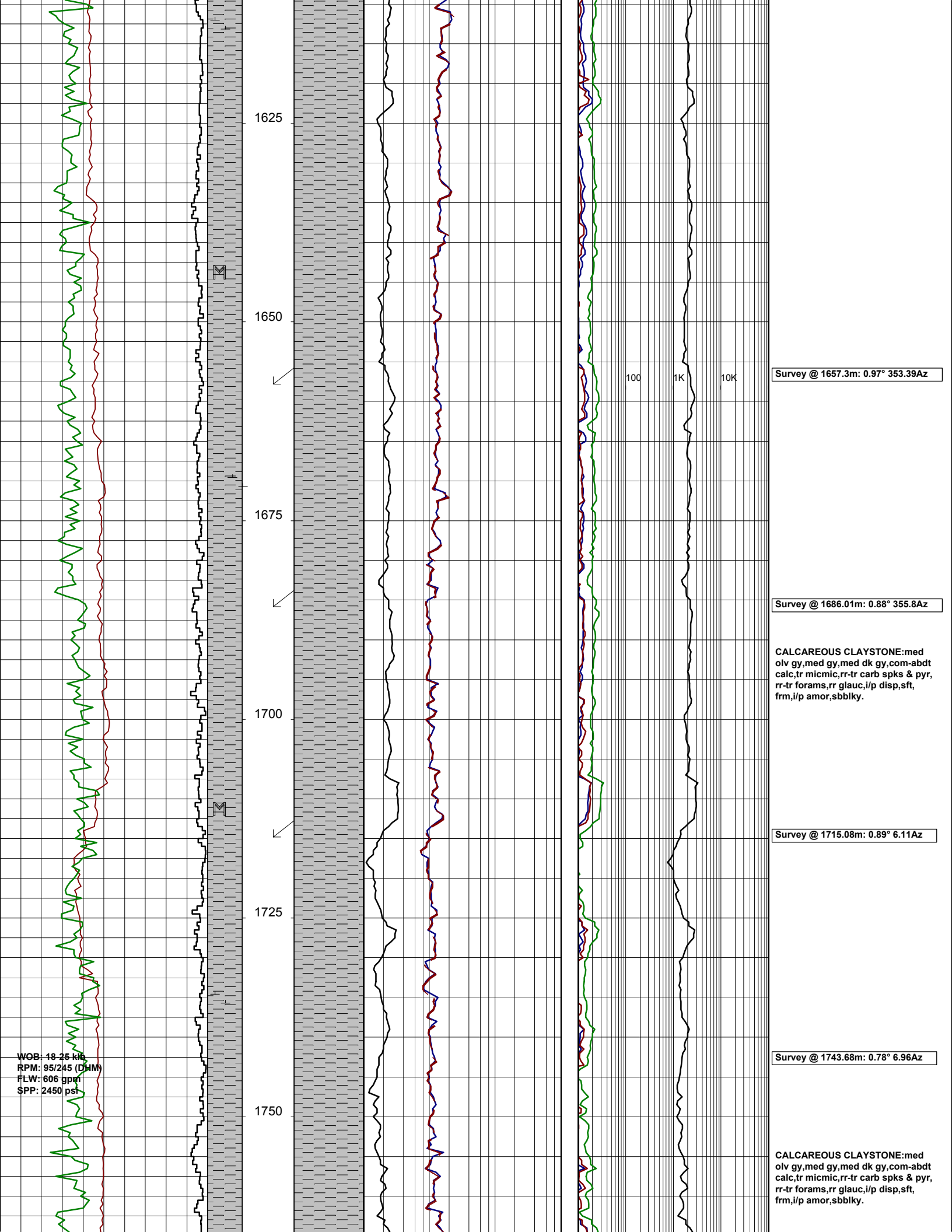
**CALCAREOUS CLAYSTONE:**lt  
 gy-lt med gy,com calc,com forams &  
 micro foss,tr micro pyr & glauc,tr  
 carb spks,rr hd-brit shell mat,  
 sft-frm,sbblky-blky.

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  
 Cl: 34K

29-10-05  
 30-10-05

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



WOB: 48-25 kPa  
 RPM: 95/245 (DHM)  
 #LW: 606 gpm  
 SPP: 2450 psi

1625  
 1650  
 1675  
 1700  
 1725  
 1750

100 1K 10K

Survey @ 1657.3m: 0.97° 353.39Az

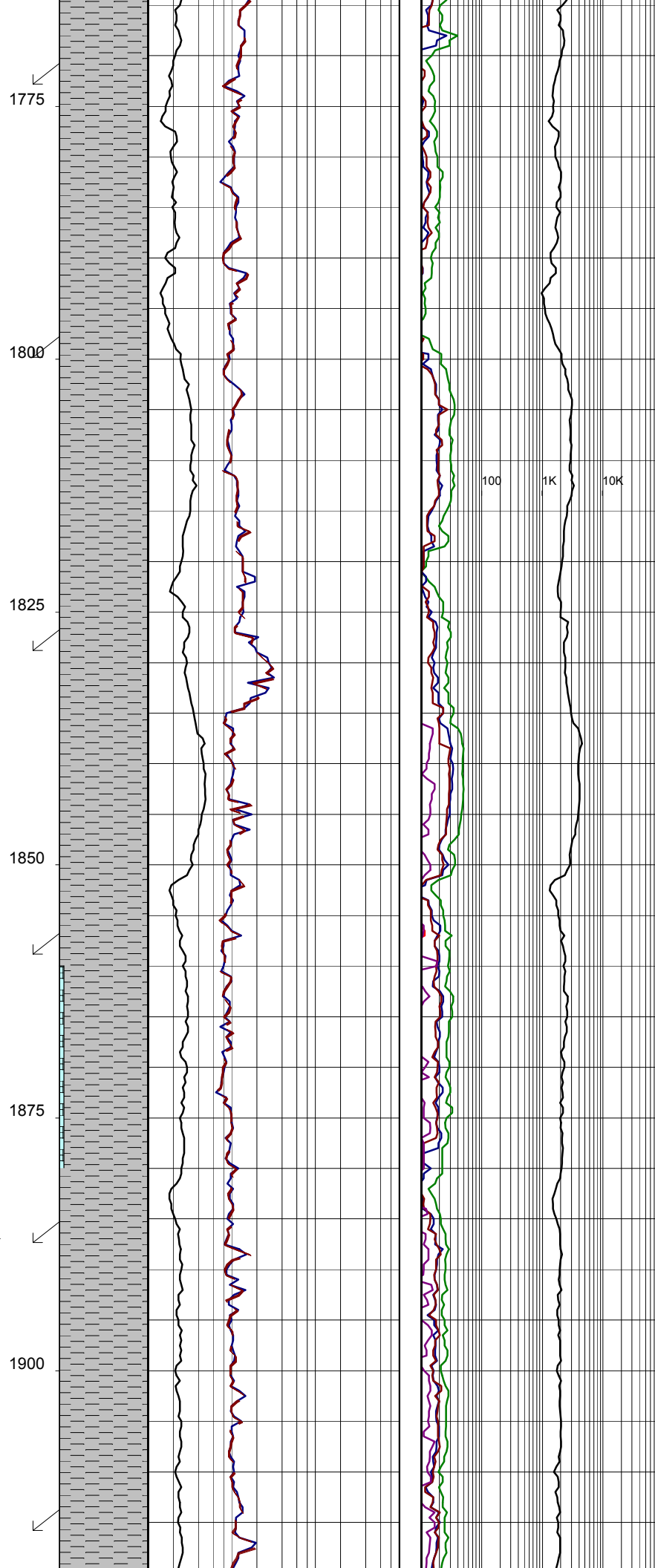
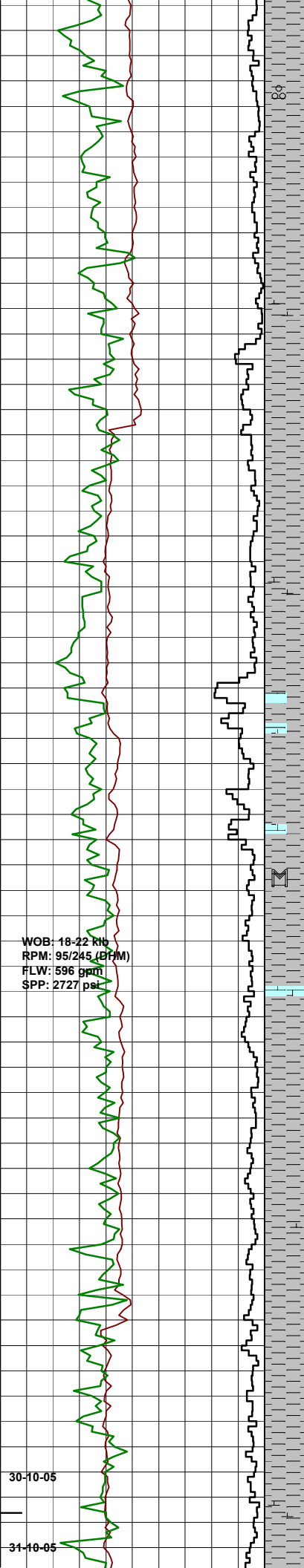
Survey @ 1686.01m: 0.88° 355.8Az

**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:** it 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, sbbly.

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:** it gy-med gy, com calc, bec less calc w/ depth, tr vf disse pyr, v rr micro-foss, sft-rr frm, sbbly-amorph.

Survey @ 1887.20m: 0.56° 59.17Az

Survey @ 1916.07m: 0.69° 58.49Az

100 1K 10K



