



COMPANY	Magnolia Oil & Gas	RIG	248
CONTRACTOR	Patterson-UTI		
WELL	Grand Canyon A 1H		
FIELD	Giddings		
COUNTRY	Washington County	STATE	Texas
LAT: 30.2297° LONG: -96.674°		Other Services Five Inch ROP-MD	
API SERIAL NO	SECTION	TOWNSHIP	RANGE
42-477-31136			

TOTAL DEPTH	17,886'	Elev. KB	332'
@	10,322'	D.F.	28'
@	17,886'	G.L.	304'
		S.F.	
















## CASING RECORD

[illegible]

**REMARKS:** All depths correspond to drillers tally.

**LOGGING PERSONNEL** L.J. Dufrene, Josh Wilson, Jeremy Cheshier, Kenny Perkins

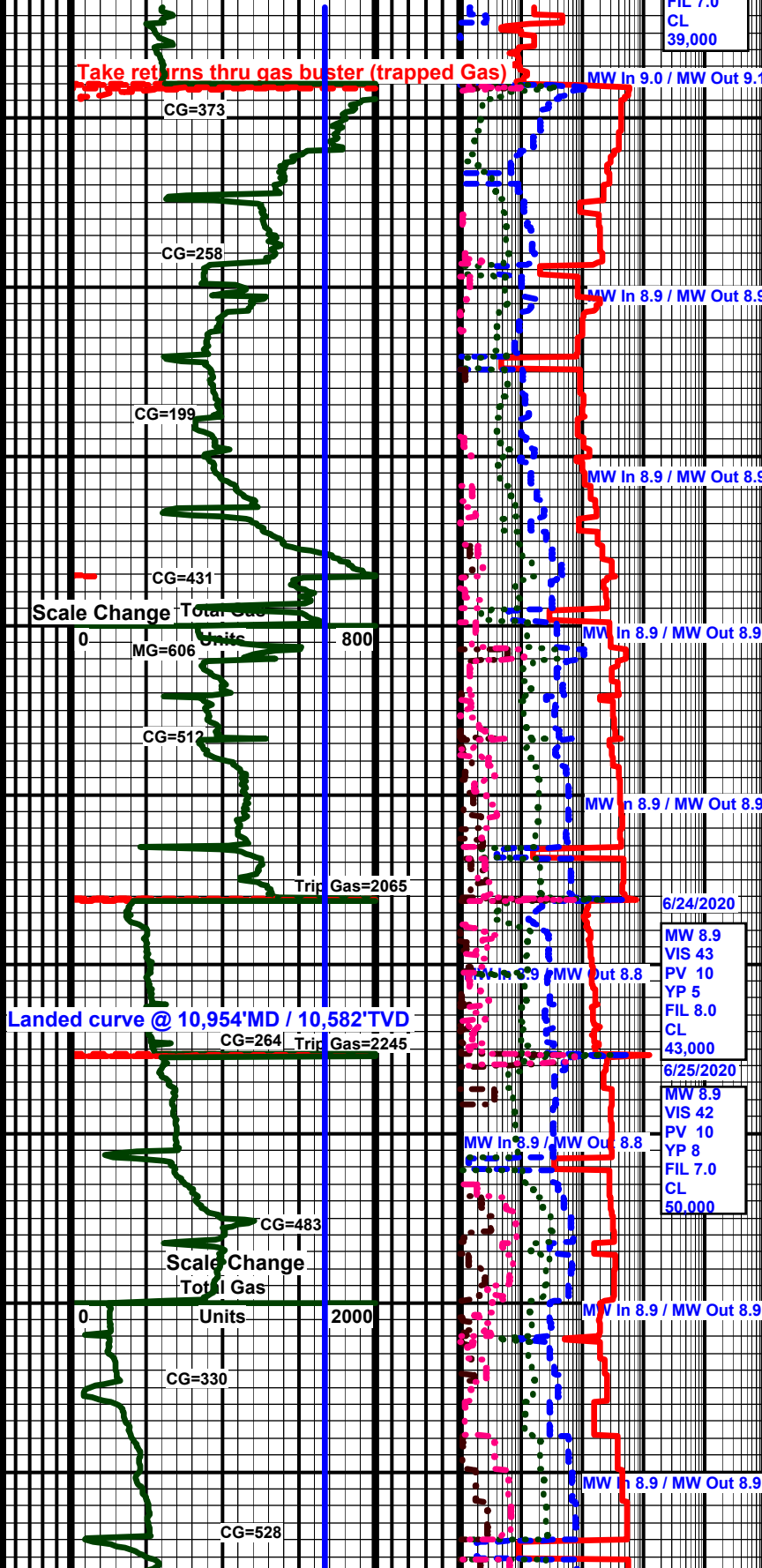
**FOLD HERE                      THE WELL NAME AND BOREHOLE REFERENCE DATA WERE FURNISHED BY THE CUSTOMER**

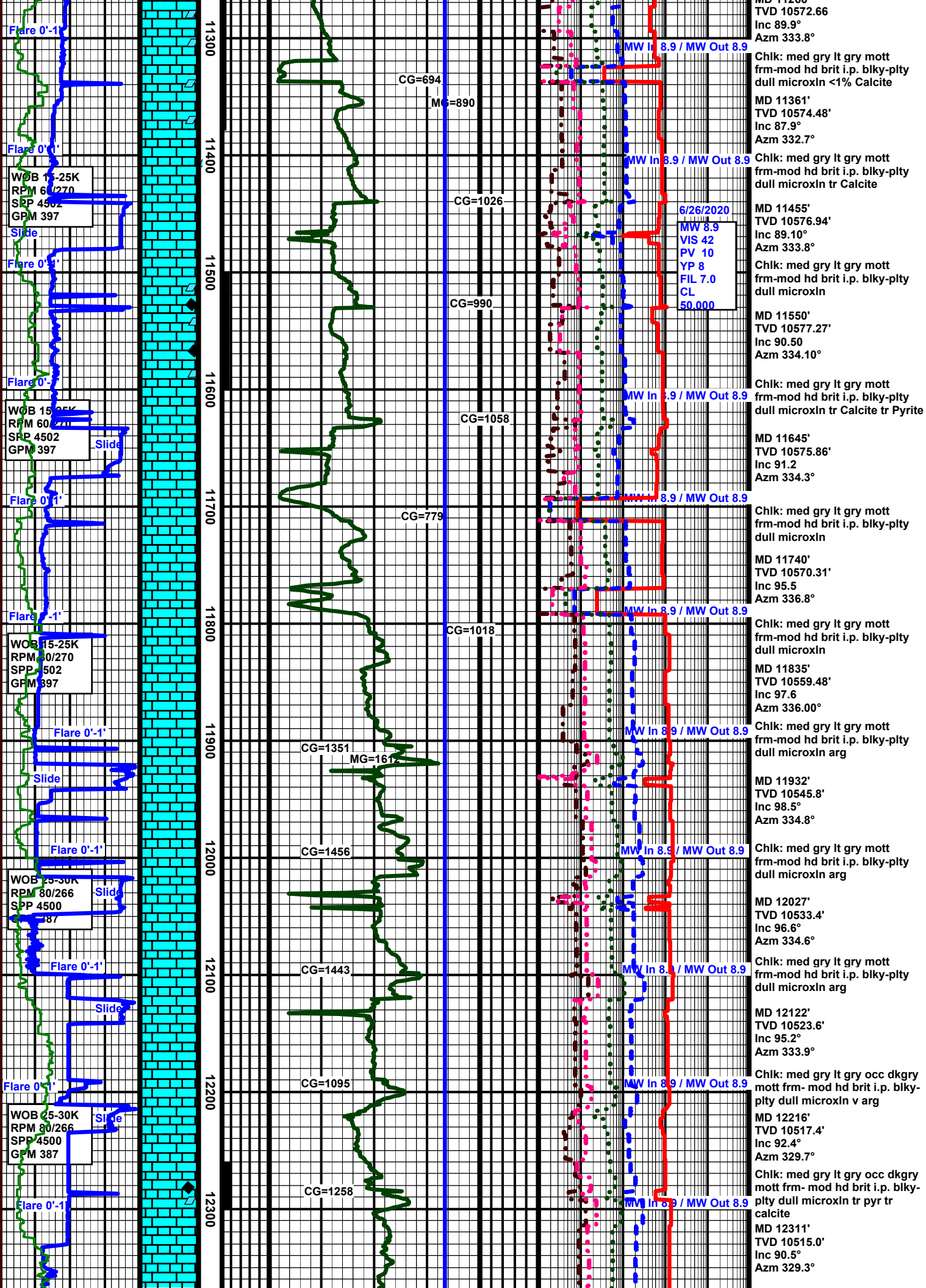
<b>Company</b>	<b>Magnolia Oil &amp; Gas</b>	Shale	Limestone	Anhydrite	Dolomite	No Sample
<b>Well</b>	<b>Grand Canyon A 1H</b>					
<b>Location</b>	<b>Washington County</b>	Sandstone	Coal	Ash	Sandy Limestone	Salt - Na
<b>Supervisor</b>	<b>LJ Dufrene</b>					
<b>Unit</b>	<b>LR05</b>	Siltstone	Cement	Chalk	Marl	Salt - K
						

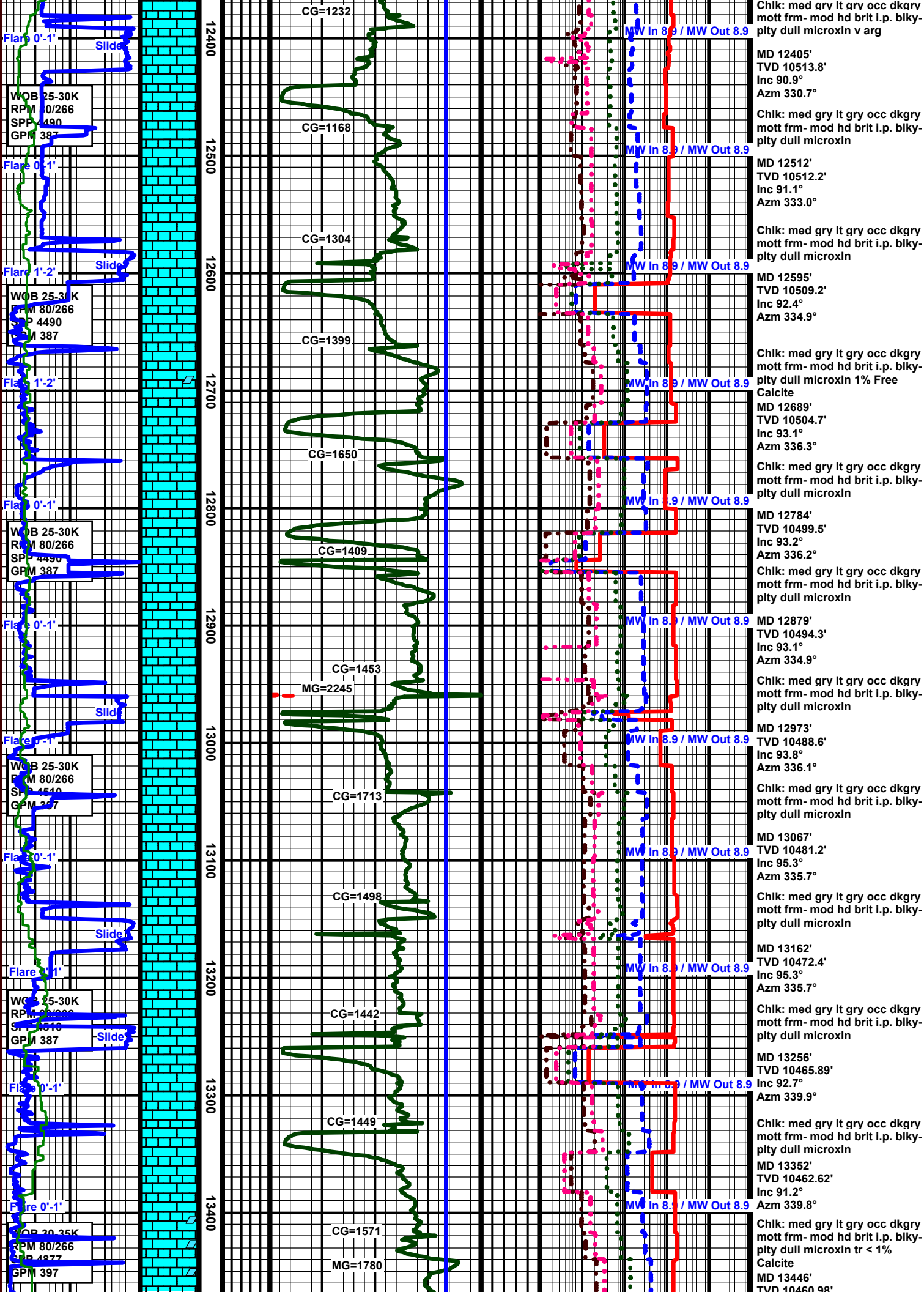
**SHOWS HAVE THE FOLLOWING SIGNIFIGANCE**

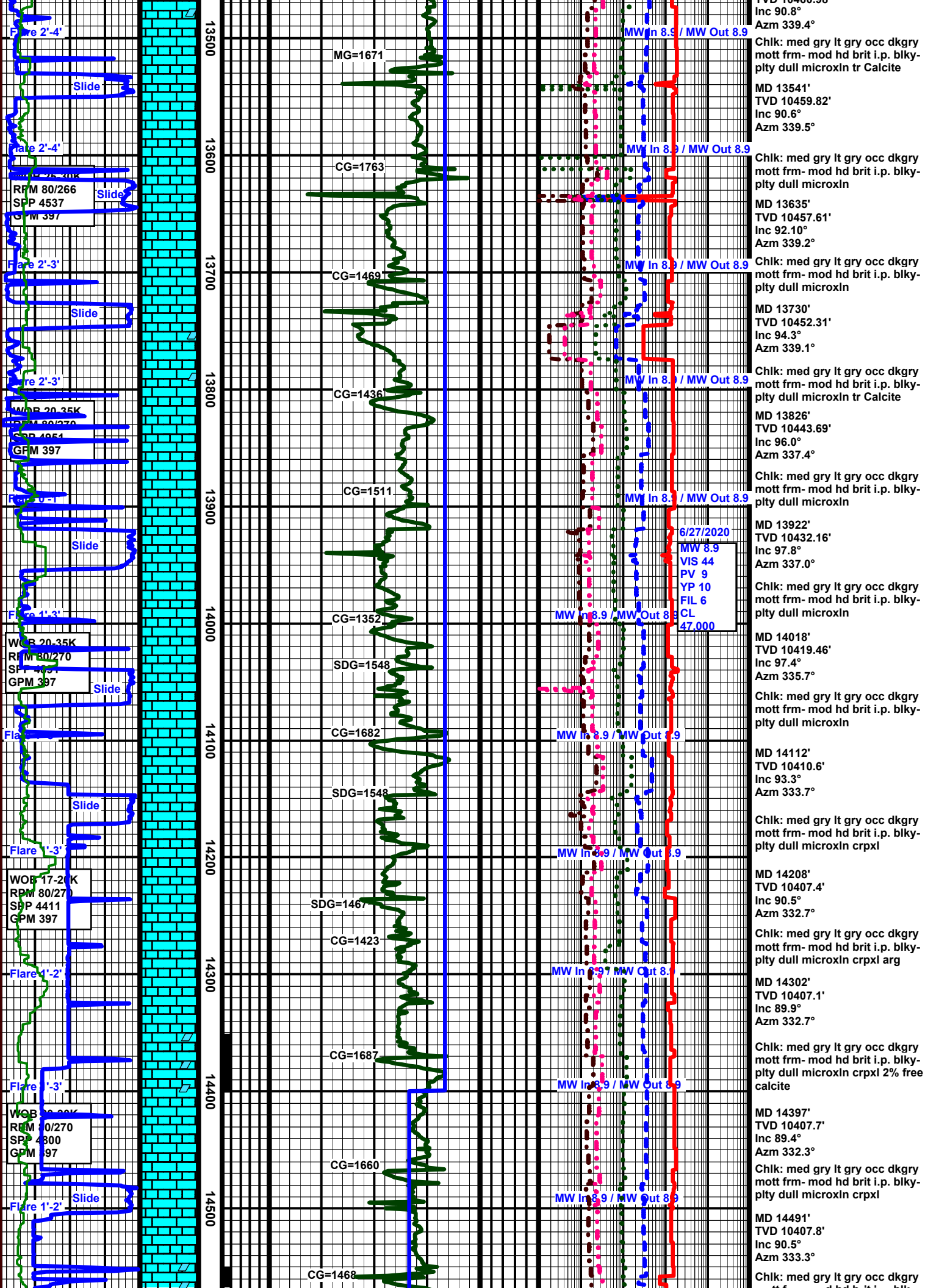
T - TRACE [ZONE OF INTEREST]	NDB - NEW DIAMOND BIT	UDB - USED DIAMOND BIT	CG - CONNECTION GAS
P - POOR SHOW PROBABLY NOT PRODUCTIVE	NB - NEW BIT	CO - CIRCULATING OUT	NR - NO RETURNS
F - FAIR SHOW POSSIBLY PRODUCTIVE	TG - TRIP GAS	LAT - LOGGED AFTER TRIP	DS - DIRECTIONAL SURVEY
G - GOOD SHOW PROBABLY PRODUCTIVE			

ROP			Lith		Frac.	Gas	Fluor	Chromatograph	Remarks
ROP						Total Gas		Methane	
200	Ft/Hr	0			0	Units	400	100 PPM 100000	
Casing Press					-5	Kick/Loss	1	Ethane	
0	PSI	1000						100 PPM 100000	
Gamma								Propane	
0	API	150						100 PPM 100000	
								I-Butane	
								100 PPM 100000	
								N-Butane	

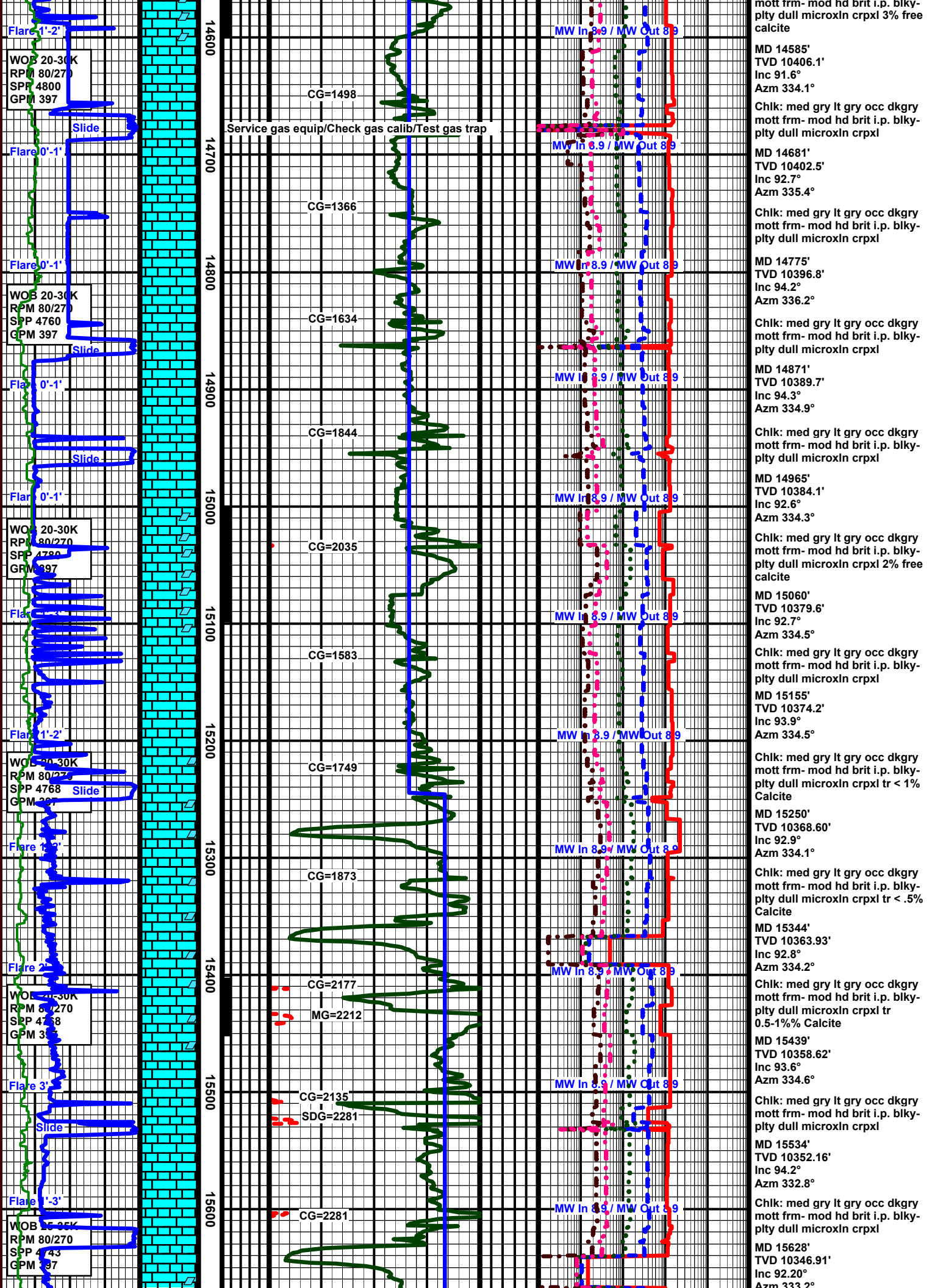


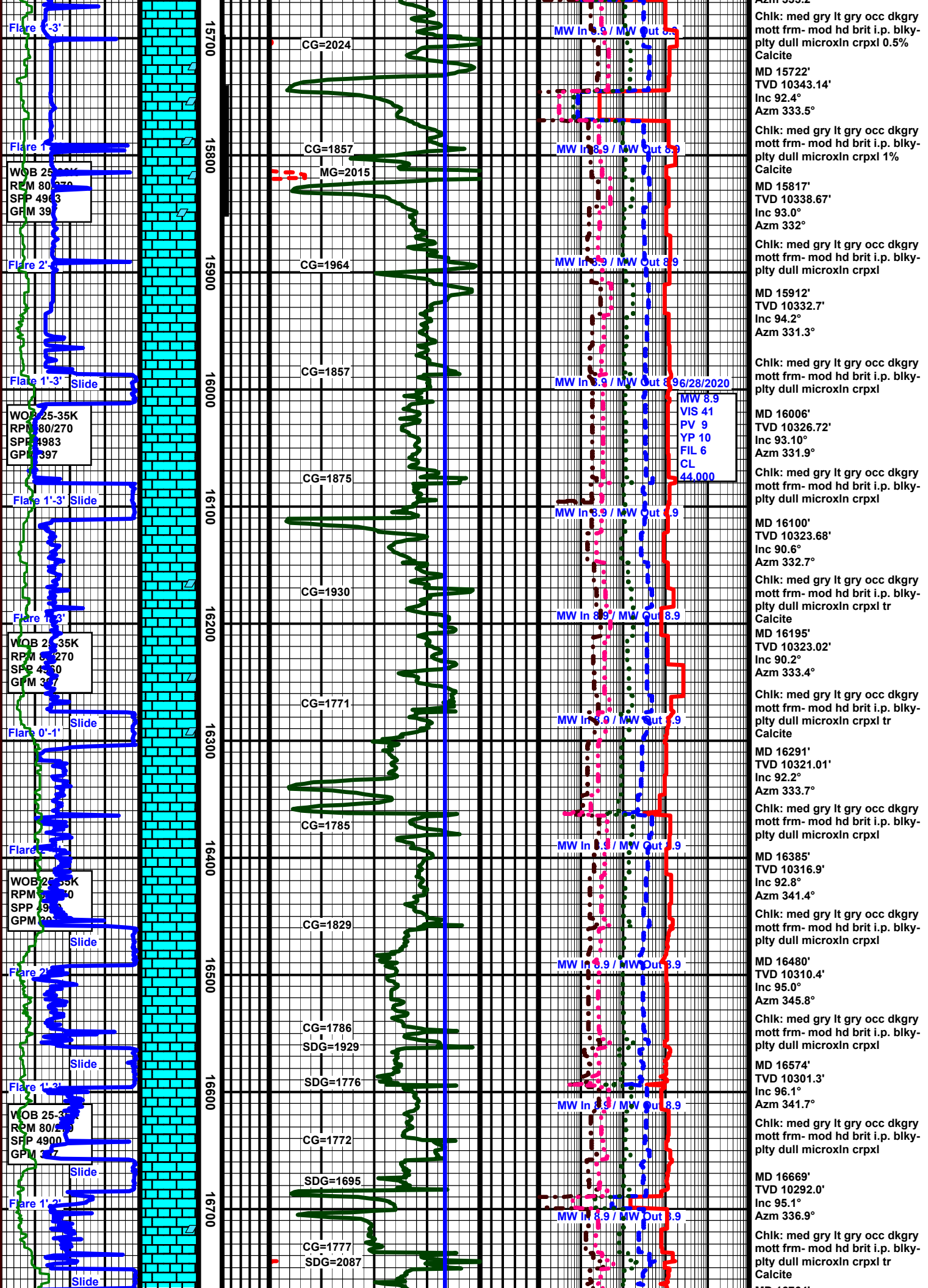


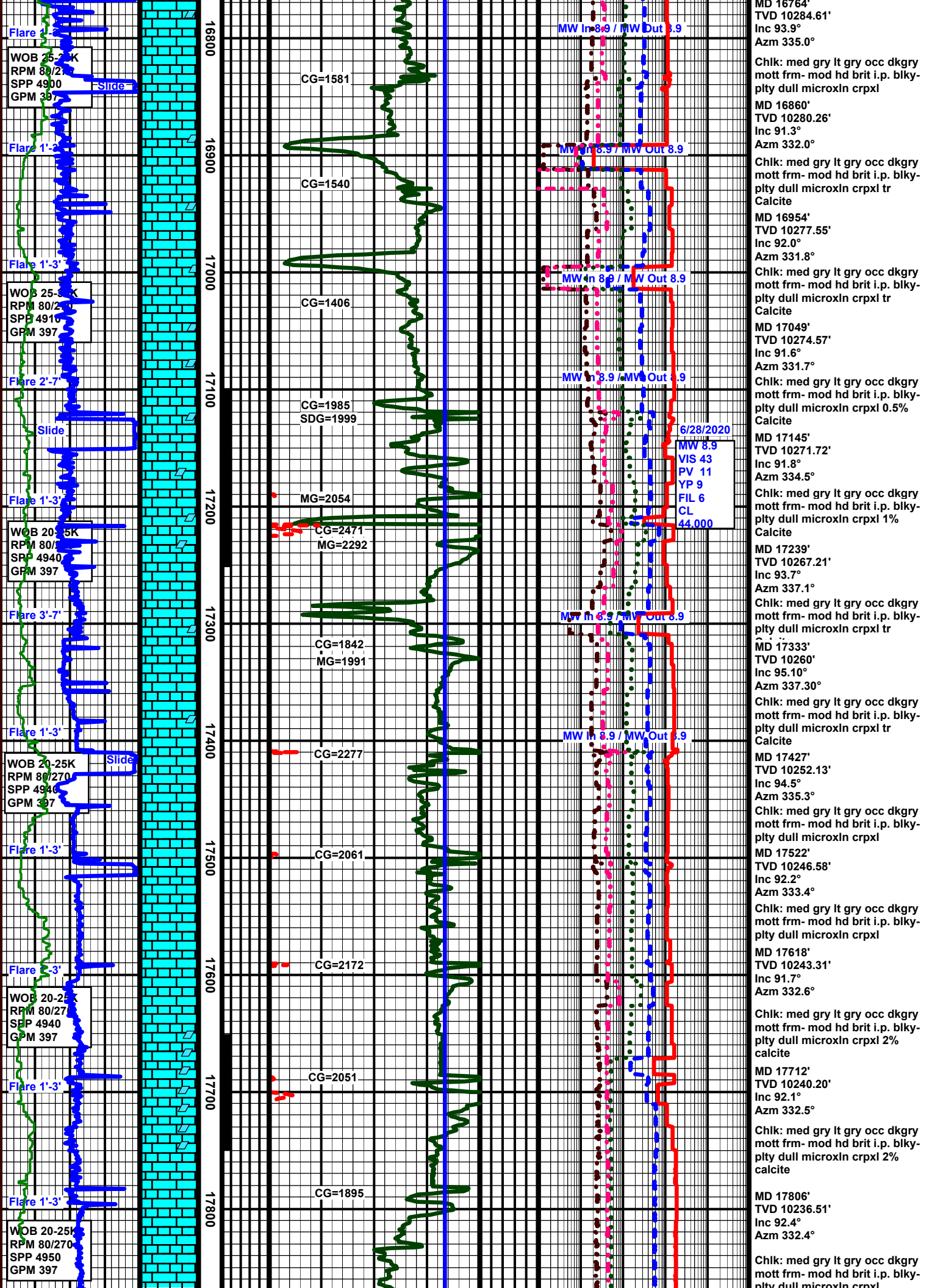














ROP	Lith	Frac.	Gas	Fluor	Chromatograph	Remarks
<div style="text-align: right;">TD 6/29/20 @ 17,886' MD 10,233' TVD</div> <p>Gamma API</p> <p>Casing Press PSI</p> <p>ROP Ft/Hr</p>			<div style="text-align: center;">Kick/Loss</div> <div style="text-align: center;">Total Gas Units</div>		<div style="text-align: center;">N-Butane PPM</div> <div style="text-align: center;">I-Butane PPM</div> <div style="text-align: center;">Propane PPM</div> <div style="text-align: center;">Ethane PPM</div> <div style="text-align: center;">Methane PPM</div>	