ERG Resources, L.L.C.

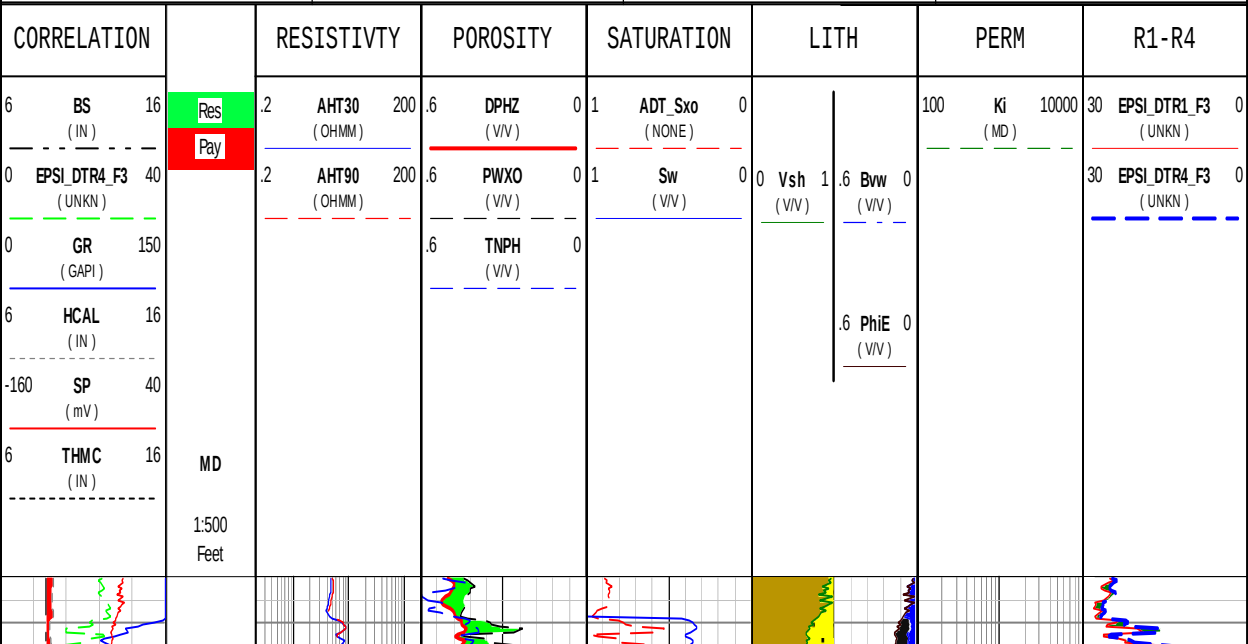
1:500 Feet MD

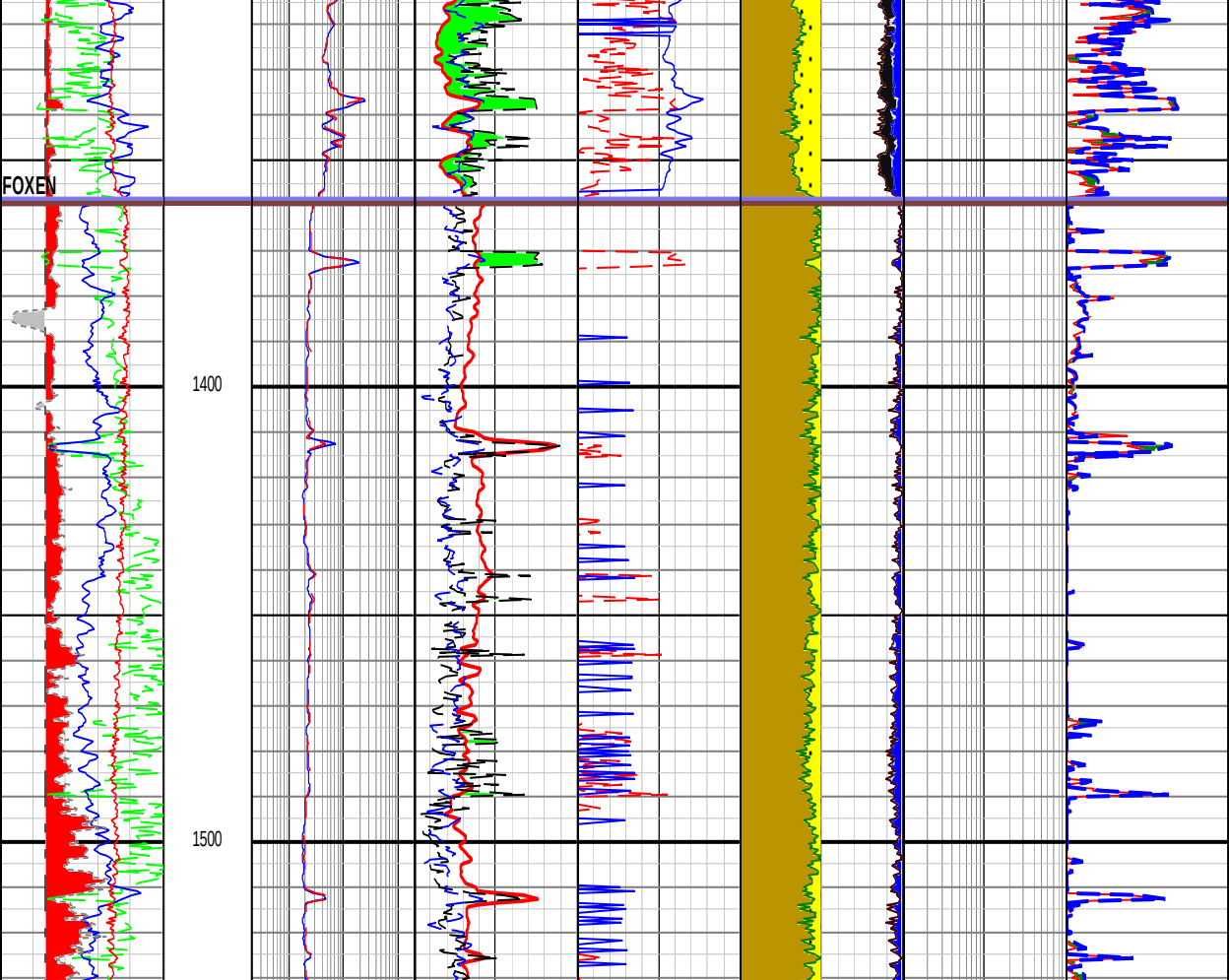
File Name LOS ALAMOS 322-DS.LAS	Company	ERG Operating Company LLC	
	Well Name	Los Alamos 322-DS	
API No. 04-083-227620000	Field Name	Cat Canyon Field	State California
	County	Santa Barbara	Country
HDS 2000 - Copyright (c) 2010 Hydrocarbon Data Systems, Inc.	Location	LAT : 34.8095090, LONG -120.2922190, Section 31 Township 9N Range 32W,	Other Services

Permanent Datum	GL	Elevation:	12. Ft	Elevations	
Logging Measured From	KELLY BUSHING	Elev. above P.D.	12. Ft	KB	1102 Ft
Drilling Measured From	KELLY BUSHING			DF	0 Ft
				GL	1090 Ft

Date	13-Jun-2012		
Run No.	1		
Depth-Driller	3220 Ft		
Depth-Logger	3218 Ft		
Btm. Log Interval	3210 Ft		
Top Log Interval	64 Ft		
Casing - Driller			
Casing - Logger			
Bit Size	8.75 in		
Type Fluid in Hole	Unknown		
Den. / Vis.	11.3 / 43.0		

Ph / Fluid Loss	8.1 / 5.4		
Source of Sample	Mud Pit		
Rm @ Meas. Temp.	1.76 / 89.2 deg F		
Rmf @ Meas. Temp.	1.19 / 78.5 deg F		
Rmc @ Meas. Temp.	2.37 / 81.3 deg F		
Source: Rmf / Rmc	Press		
Time Since Circ.	2.0		
Max. Rec. Temp.	133.5 deg F		
Recorded by	Andy Peter		
Witnessed by	Greg Hummel		
Log Analysis by			

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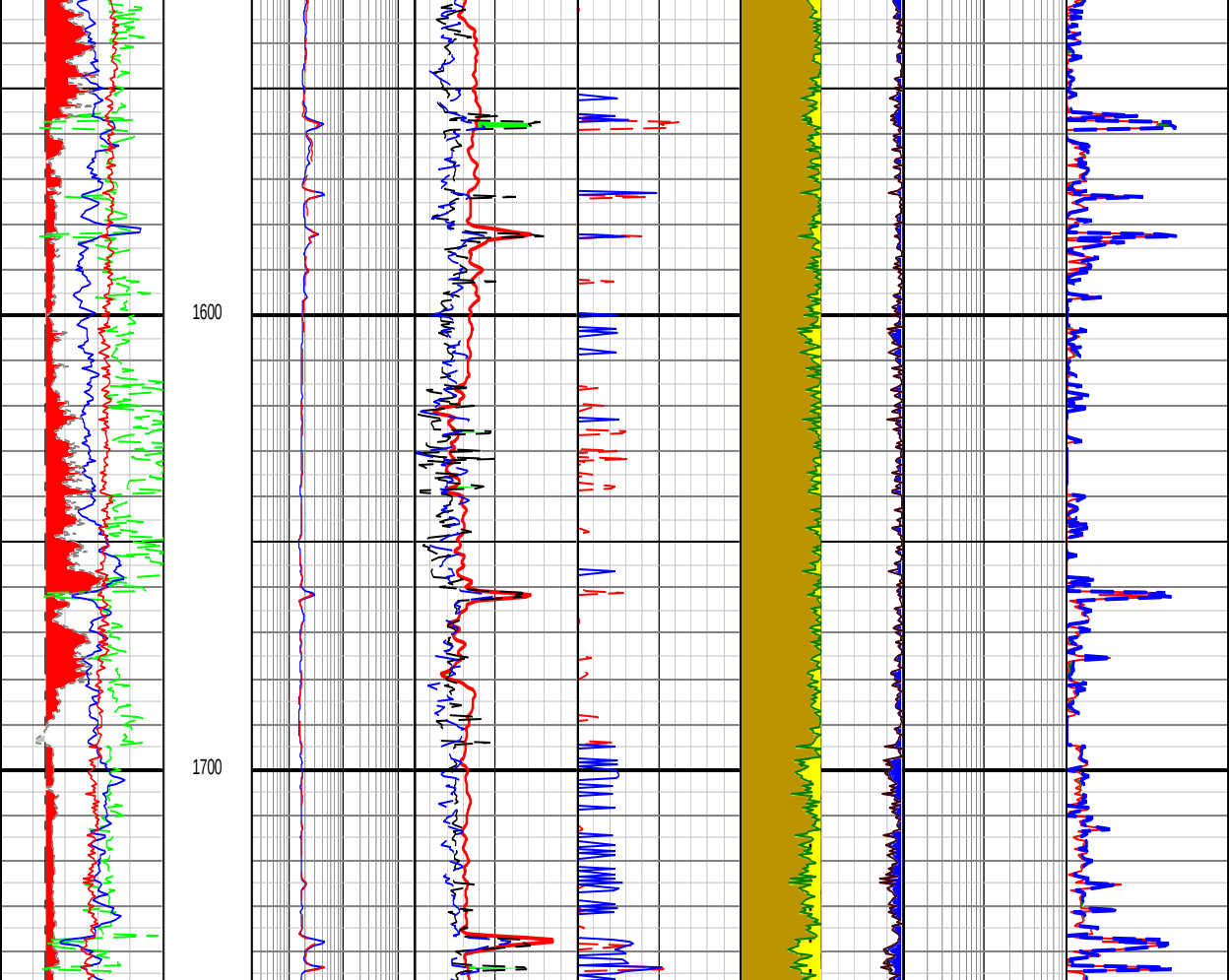
1500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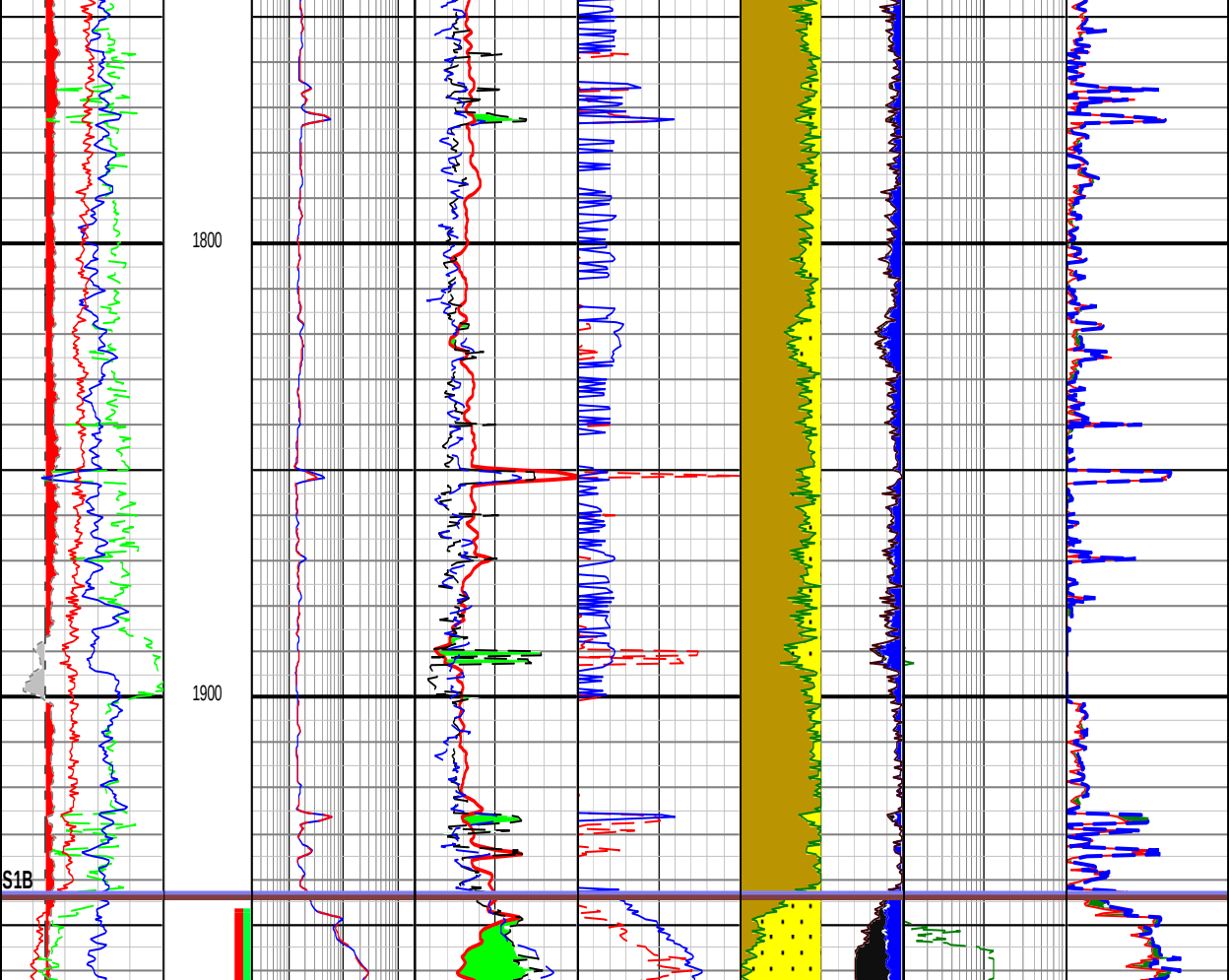
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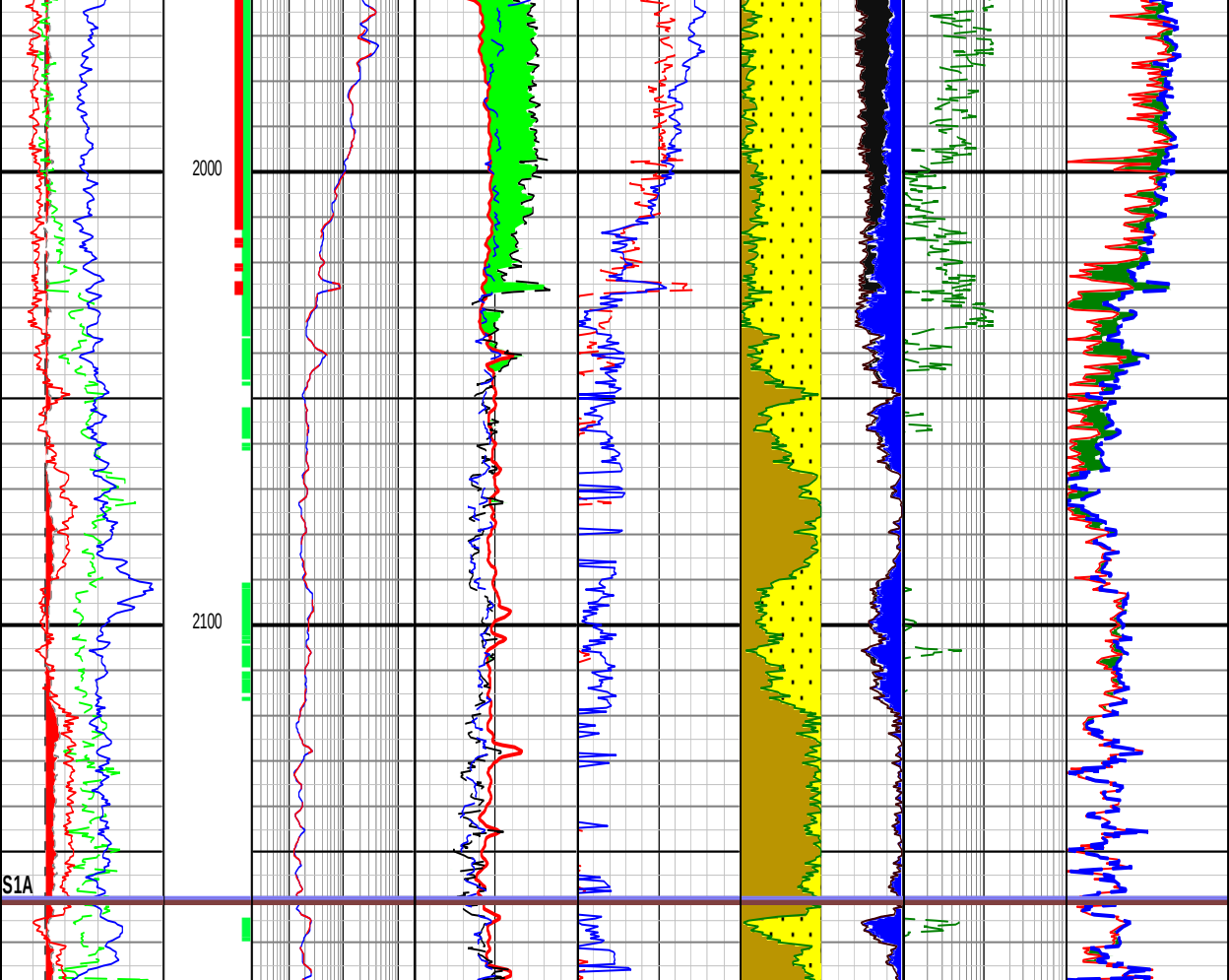
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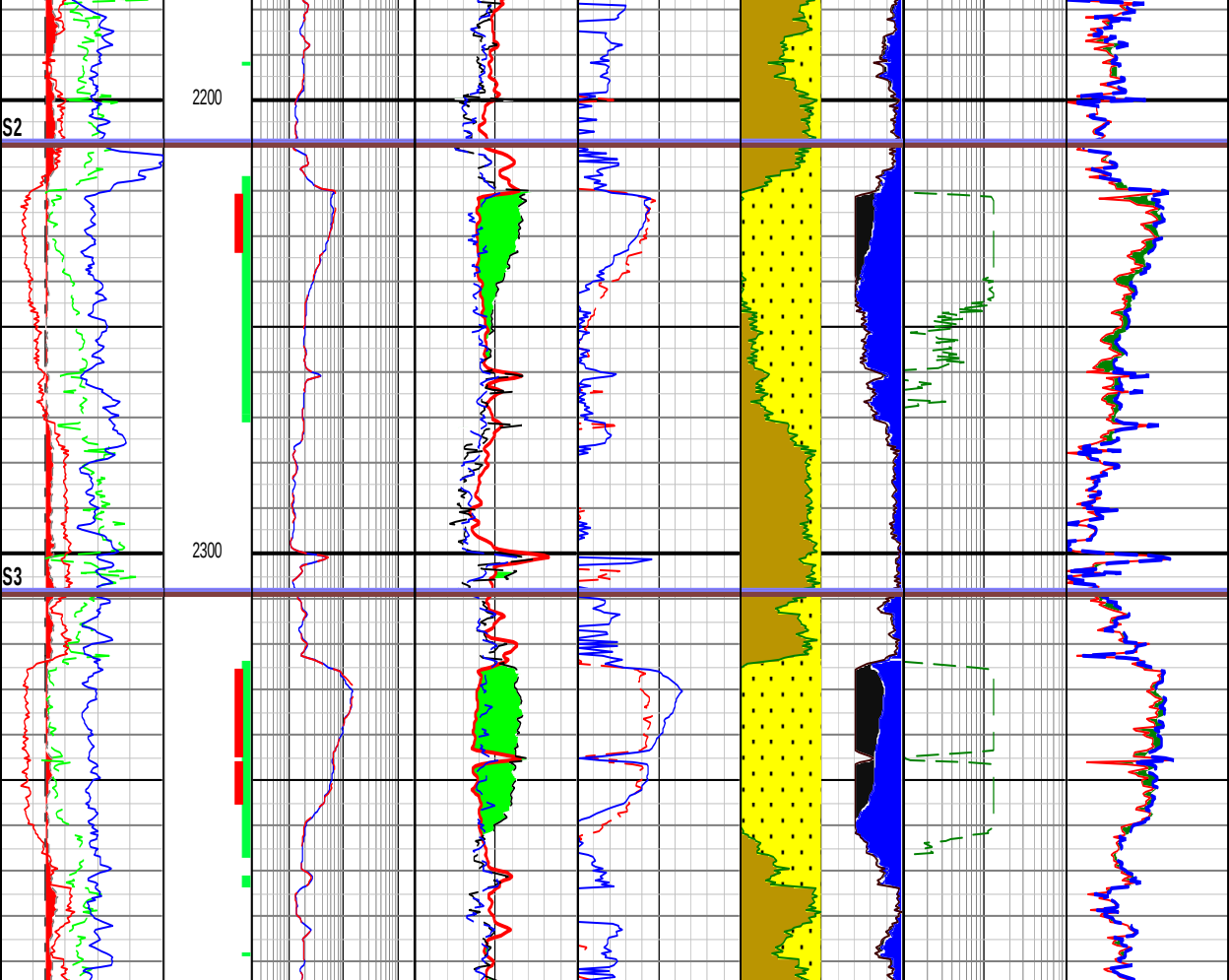
S1A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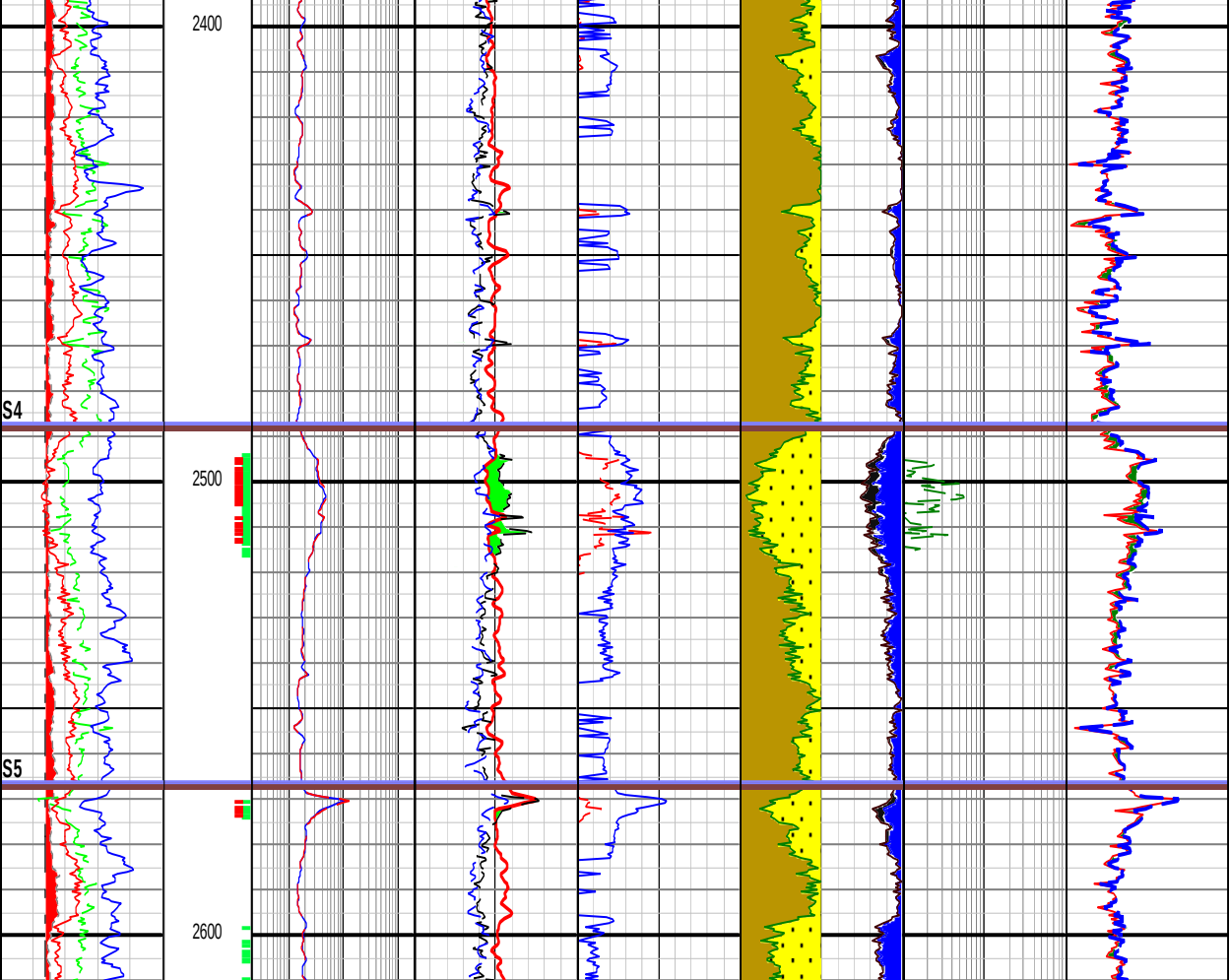
S2
2300
S3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S4
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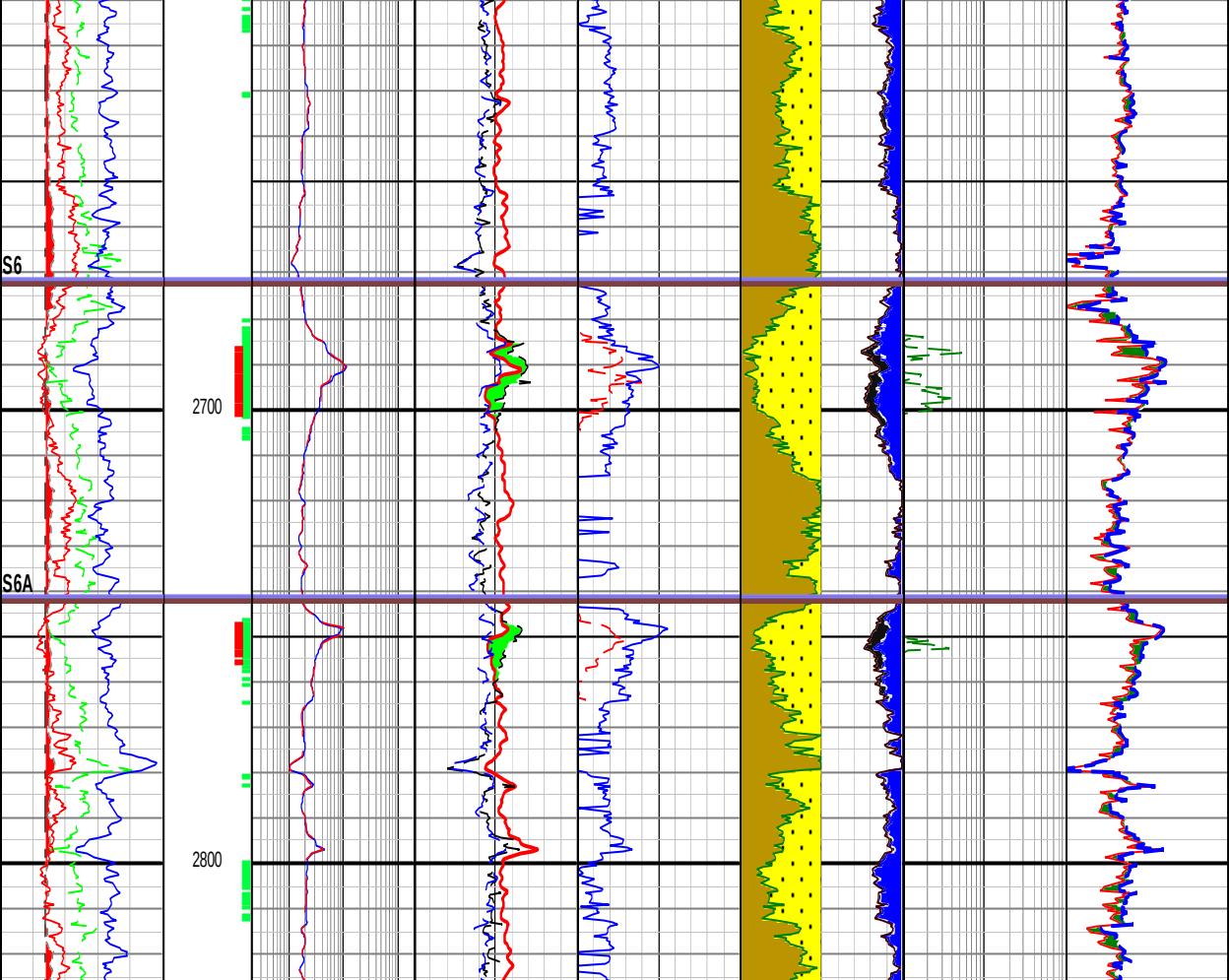
S5
2600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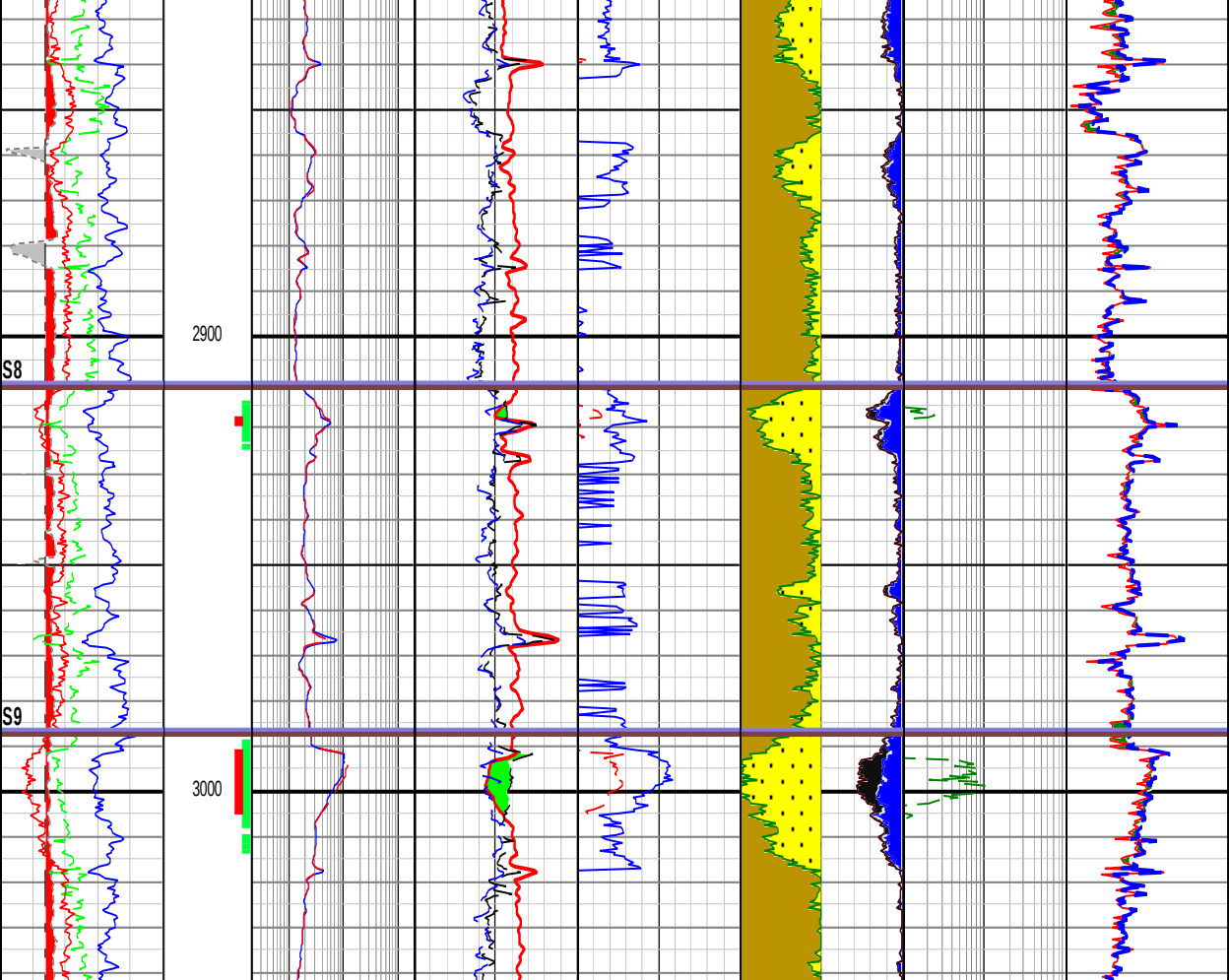
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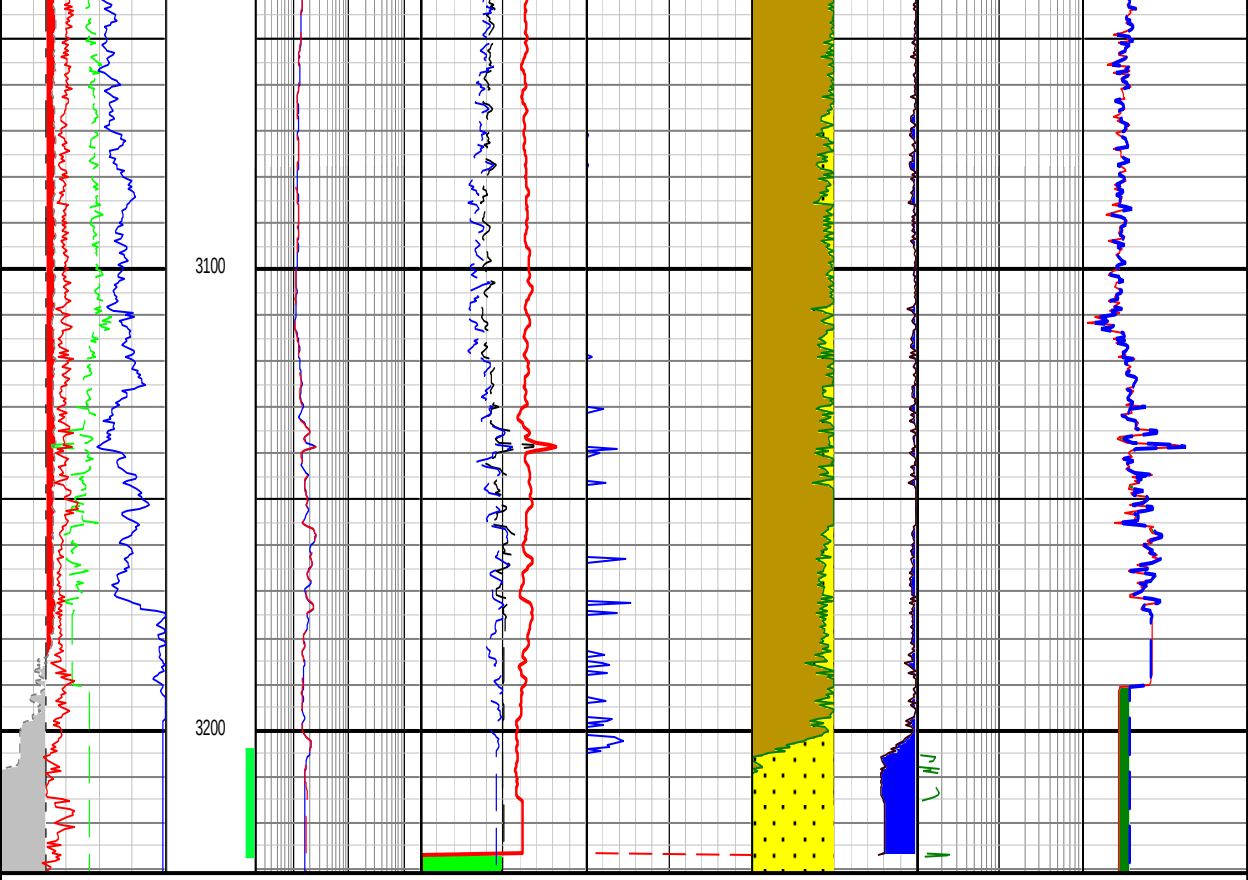

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Date: 6/14/2012 Time: 9:06:05 AM

[Pay Summaries]

- Net

Formation	Range	Net	Gr	Vsh	PhiT	PhiE	Rt	Sw	Swa	Ki	Phi-Ft	Bvh-Ft
FOXEN	1358.0 - 1942.5	0.0	0	0.000	0.000	0.000	0.0	0.000	0.000	0.00	0.000	0.000
S1B	1943.0 - 2159.5	70.0	82	0.152	0.332	0.286	15.2	0.409	0.556	505.50	20.028	12.069
S1A	2160.0 - 2208.5	0.0	0	0.000	0.000	0.000	0.0	0.000	0.000	0.00	0.000	0.000
S2	2209.0 - 2307.5	12.5	84	0.002	0.348	0.348	6.1	0.609	0.610	1239.98	4.346	1.702
S3	2308.0 - 2486.5	28.0	83	0.000	0.349	0.349	9.6	0.503	0.503	1254.28	9.763	4.861
S4	2487.0 - 2565.5	12.0	90	0.247	0.322	0.243	4.1	0.659	0.949	186.24	2.917	0.998
S5	2566.0 - 2670.5	2.5	82	0.329	0.260	0.175	6.3	0.593	1.000	33.88	0.438	0.171
S6	2671.0 - 2740.5	13.5	84	0.190	0.297	0.240	5.6	0.637	0.912	168.80	3.241	1.158
S6A	2741.0 - 2909.5	7.5	95	0.270	0.299	0.217	6.1	0.579	0.904	87.13	1.630	0.684
S8	2910.0 - 2985.5	2.0	85	0.252	0.241	0.183	5.6	0.647	0.977	69.88	0.367	0.127
S9	2986.0 - 3231.0	14.0	91	0.113	0.304	0.272	8.4	0.529	0.664	432.20	3.808	1.820
		---	---	---	---	---	---	---	---	---	---	---
Summary -->	1358.0 - 3231.0	162.0	85	0.130	0.326	0.287	10.6	0.502	0.648	601.52	46.537	23.589

[Pay Zone Filters]

No.	Depth	Form. Name	Curve	Low Filter	High Filter
1	50		Vsh	0.000	0.400
2	50		PhiE	0.050	0.450
3	50		Sw	0.000	0.700

[Rw Values]

Depth	Rw Value	Temperature	Temp. Corrected
50.0	.400	75.000	Yes

[VShale Formulas]

Depth	Vshale Formula	Min Value	Max Value
50.0	Spontaneous Potential	-45.558	3.0

[Porosity Sources]

Depth	Porosity Source
50.0	Density

[Water Saturation Sources]

Depth	Swsh Formula	A	M	N	Rsh
50.0	Indonesian	1.00	2.00	2.00	1.07