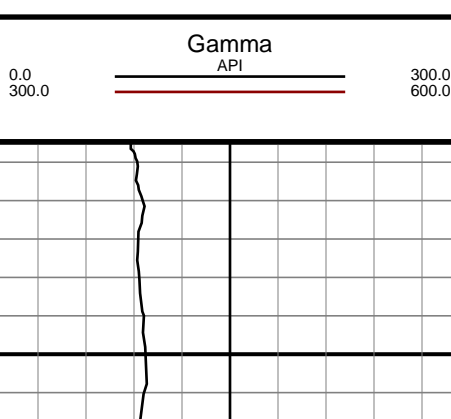
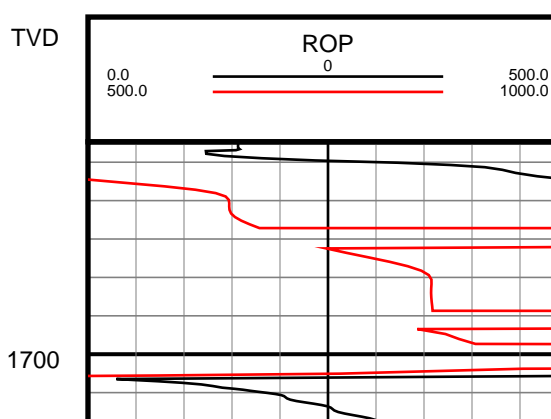
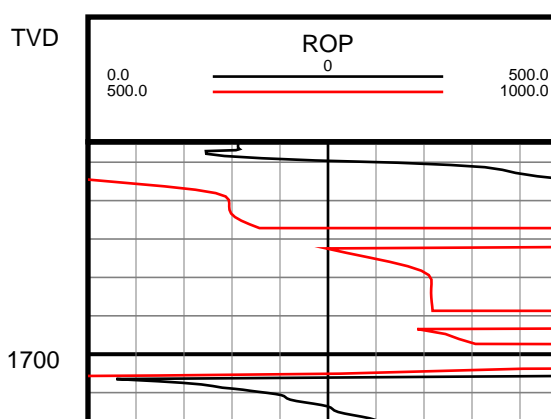


Company: Petroleum Development Corp.										
Well Name: Popham 8N										
API:										
Country/Area: Field										
State: Colorado										
County: United States										
Job number: 161178										
Field: Popham										
Rig ID: Design 161										
Survey Company: Schlumberger										
Company: Petroleum Development Corp.										
Company Man: Brady Stump / John T. Ehlson										
Drillbit D/B: Zach Gentry										
Swing Shift D/B: Tony Calhoun										
Night D/B: Eric Mayes										
Drillbit WMD: Chad Anderson										
Mudbit WMD: Jason Ash										
Log measurements: Gamma, ROP										
Maximum temperature:										
Casing	Depth	Size	Mud Type: H2O	Depth		Date				
				Start: 0 ft		4-20-2019				
End: 12391 ft										
Elevations										
K/B: 23 ft										
GI: 4662 ft										
Run:				Gamma					Survey	
1		12.25"		60.00 ft		0 ft		4-20-2019		
2		8.5"		62.80 ft		1651 ft		4-22-2019		
3										
4										
5										
6										
7										
8										
9										
10										

Engsign uses its best efforts to provide its customers with interpretations in conjunction with services performed but will not be held liable or responsible for the accuracy of such information or interpretation.

Gamma		ROP	
0.0	300.0	0.0	500.0
300.0	600.0	500.0	1000.0
			
		1700	
			

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