RELIANCE OILFIELD SERVICES

Pulsed Neutron
Gamma Ray
Collar Locator Log

Company TEP Rocky Mountain LLC
Well Federal GM 511-10
Field Grand Valley
County Garfield
State Colorado

Company	TEP Rocky Mountain LLC				
Well	Federal GM 511-10				
Field	Grand Valley				
County	Garfield	State	Colorado		
Location:	API # : 05-045-22688 2119' FNL & 1887' FWL SENW SEC 10 TWP 7S RGE 96W			Other Services	RBL
Permanent Datum	Ground Level	Elevation	6148'	Elevation	K.B. 6172' D.F. 6171' G.L. 6148'
Log Measured From	Kelly Bushing	24 FT			
Drilling Measured From	Kelly Bushing				

Date	02-AUG-2017		
Run Number	One		
Depth Driller	7207 FT		
Depth Logger	7080 FT		
Bottom Logged Interval	7080 FT		
Top Log Interval	3786 FT		
Open Hole Size	8.750"		
Type Fluid	Fresh Water		
Density / Viscosity	8.33 lb/gal		
Max. Recorded Temp.	---		
Estimated Cement Top	---		
Time Well Ready	---		
Time Logger on Bottom	---		
Equipment Number	---		
Location	Grand Junction		
Recorded By	J.Donnelly		
Witnessed By	---		

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size (in)	Weight (lb/ft)	From	To

Casing Record	Size (in)	Wgt (lb/ft)	Grade	Top	Bottom
Surface Casing	9 5/8	32.3	H-40	Surface	1152 FT
Intermediate #1	4 1/2	11.6	P-110	Surface	7164 FT
Intermediate #2					
Liner					

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

Log ran as per customer request
Depth referenced to Reliance Oilfield Services Bond Log dated 02-AUG-2017
Log ran from 7080 FT to 3768 FT

Thank you for choosing Reliance Oilfield Services, LLC!!

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Main Pass

Database File	tep_federal gm 511-10_pdn_08-03-2017\tep_federal gm 511-10_pdn_08-03-2017_shifted.db
Dataset Pathname	gm_511-10_pdn_shifted
Presentation Format	ros_pdn
Dataset Creation	Fri Aug 04 19:03:03 2017
Charted by	Depth in Feet scaled 1:240

0 Gamma Ray (GAPI) 150
Casing Collar Locator
0 Line Speed (ft/min) 100
0 SSIN (cps) 500000

10 RATIO 0
60 SIGMA (cu) 0
0.35 RATIC 0
11 RATIN 0
0 LS (cps) 0000
SS
0 (cps4e+006

0 Gamma Ray (GAPI) 150
Casing Collar Locator
0 Line Speed (ft/min) 100
0 SSIN (cps) 500000

10 RATIO 0
60 SIGMA (cu) 0
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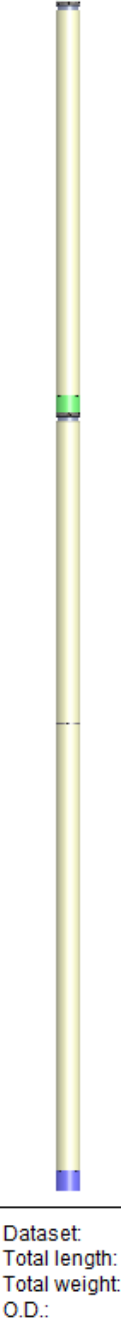
11 RATIN 0
0 LS (cps) 0000
SS
0 (cps4e+006

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			Titan_Electric_Cable_Heads-Titan_1-11/16 Electric Cable Head with 1" Fishing Neck	1.03	1.69	5.40
			Telemetry-Antares Antares Telemetry / Gamma / CCL	4.07	1.70	17.60
			Generator-Antares Antares Neutron Generator	19.03	1.70	85.80

Dataset: pdn tool.db: field/well/run1/PDN_Tool_Diagram
Total length: 24.13 ft
Total weight: 108.80 lb
O.D.: 1.70 in

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