RELIANCE
OILFIELD SERVICES

Pulsed Neutron
Gamma Ray
Casing Collar Log

Company	TEP Rocky Mountain LLC
Well	5-Mile Ranch SG 533-26
Field	Grand Valley
County	Garfield
State	Colorado

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Field Grand Valley
County Garfield State Colorado

Location: API # : 05-045-23941
SEC 26 TWP 7S RGE 96W

Other Services
RBL

Permanent Datum	Ground Level	Elevation	5076.3'	Elevation
Log Measured From	Kelly Bushing	24 FT		K.B. 5100.3' D.F. 5099.3' G.L. 5076.3'
Drilling Measured From	Kelly Bushing			

Date	28-NOV-2018		
Run Number	One		
Depth Driller	5934 FT		
Depth Logger	5910 FT		
Bottom Logged Interval	5904 FT		
Top Log Interval	2275 FT		
Open Hole Size	8.750"		
Type Fluid	Fresh Water		
Density / Viscosity	8.34 lb/gal		
Max. Recorded Temp.	---		
Estimated Cement Top	---		
Time Well Ready	---		
Time Logger on Bottom	---		
Equipment Number	---		
Location	Grand Junction, CO		
Recorded By	J. Donnelly		
Witnessed By	---		

Borehole Record				Tubing Record		
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size (in)	Wgt (lbs/Ft)	Grade	Top	Bottom
Surface Casing	9 5/8	32.3	H-40	Surface	1033 FT
Intermediate #1	4 1/2	11.6	P-110	Surface	5893 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 Bond Log dated 27-NOV-2018
Log ran from 5904 FT to 2275 FT
Pulsed Neutron Data logged with the Hunter RAS Tool

Thank you for choosing Reliance Oilfield Services, LLC!!

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Main Pass

Database File	f:\data\tep\5 mile ranch sg 533-26\pn\tep_5-mile ranch sg 533-26_pn_11-28-18.db
Dataset Pathname	Main.2
Presentation Format	ros_pdn_hunter
Dataset Creation	Wed Nov 28 03:20:06 2018
Charted by	Depth in Feet scaled 1:240

0 GR (GAPI) 150
Casing Collar Locator
-100 Line Speed (ft/min) 100
0 NIRS (cps) 400000
0 BKGN (cps) 4000
0 BKGF (cps) 2000

4 RNF2 0
60 SIGMA (cu) 0
4.5 RNFI 0
FIS2
0 (cps) 45000
NIS2
0 (cps100000

0 GR (GAPI) 150
Casing Collar Locator
-100 Line Speed (ft/min) 100
0 NIRS (cps) 400000
0 BKGN (cps) 4000
0 BKGF (cps) 2000

4 RNF2 0
60 SIGMA (cu) 0
4.5 RNFI 0
FIS2
0 (cps) 45000
NIS2
0 (cps100000

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Repeat Pass

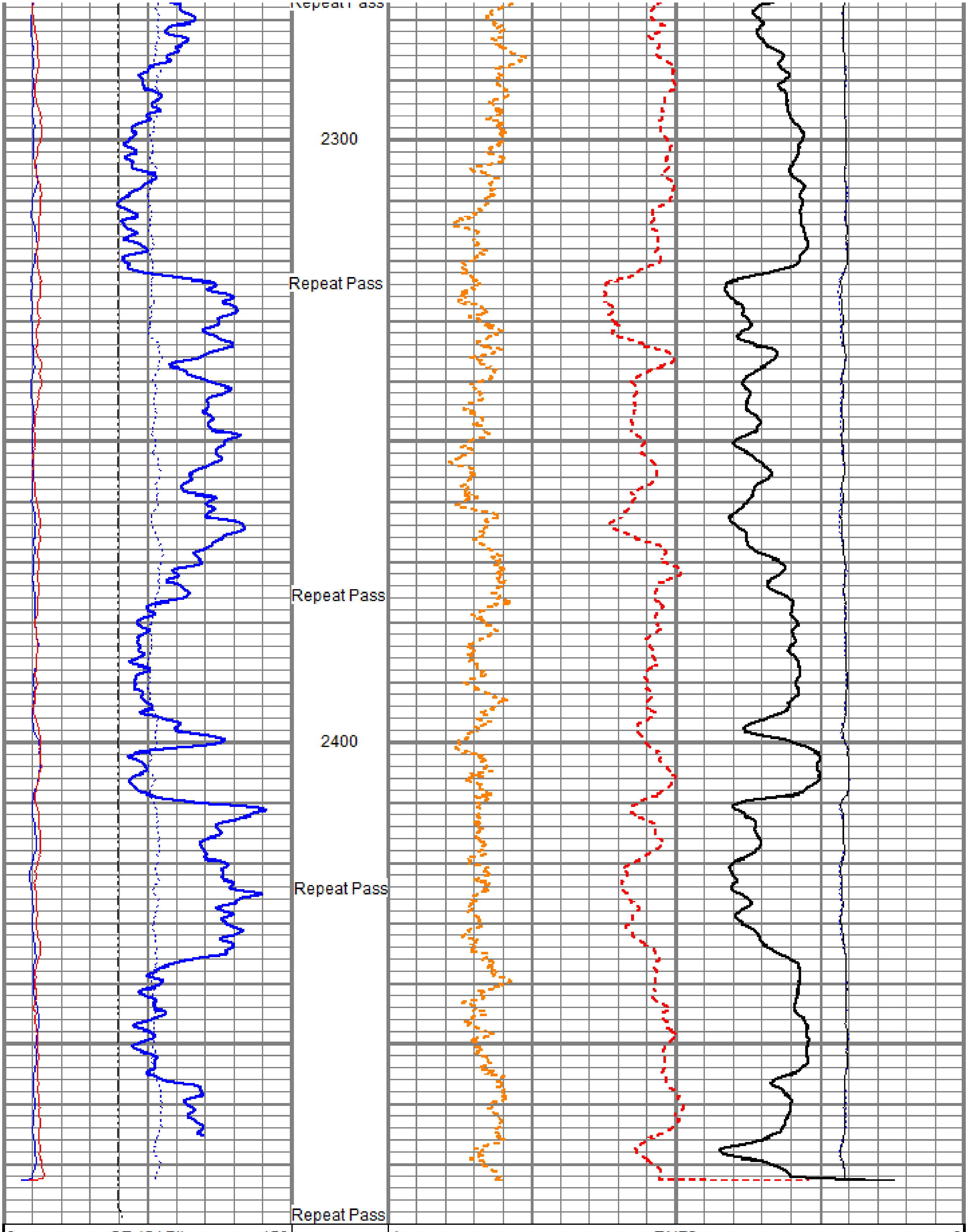
Database File	f:\data\tep\5 mile ranch sg 533-26\pn\tep_5-mile ranch sg 533-26_pn_11-28-18.db
Dataset Pathname	Repeat.2
Presentation Format	ros_pdn_hunter
Dataset Creation	Wed Nov 28 03:10:23 2018
Charted by	Depth in Feet scaled 1:240

0 GR (GAPI) 150
-100 Line Speed (ft/min) 100

4 RNF2 0
60 SIGMA (cu) 0

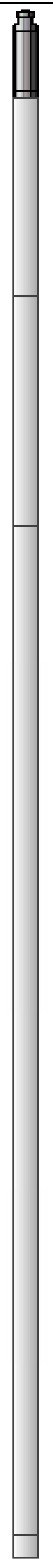
0	NIRS (cps)	400000
0	BKGN (cps)	4000
0	BKGF (cps)	2000

4.5	RNFI	0
	FIS2	
0	(cps)	45000
	NIS2	
0	(cps	100000



0	GR (GAPI)	150
-100	Line Speed (ft/min)	100
0	NIRS (cps)	400000
0	BKGN (cps)	4000
0	BKGF (cps)	2000

4	RNF2	0
60	SIGMA (cu)	0
4.5	RNFI	0
	FIS2	
0	(cps)	45000
	NIS2	
0	(cps	100000

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			Titan CHD-16875 GO Titan 1-11/16" Assembled Electric Cable Head w/ 1" Fishing Neck	1.03	1.69	5.40
			HWS_TCU-002 (001704) HWS Telemetry Control Unit (TCU002)	2.30	1.69	10.87
TCUTEMP TCUVOLT GCL_CCL	14.69 14.69 13.97					
			HWS_GCL-001 (001681) HWS Gamma Ray Collar Locator (1.6875")	2.69	1.69	13.40
GCL_GR GCL_GR	12.50 12.50					
Long Far Near Anci	6.25 6.25 6.25 6.25		HWS_RAS-RAS002 (003041) Hunter Well Science Pulsed Neutron Tool	11.75	1.69	55.82
			HWS_TBN-001 (001725) HWS Terminator Bull Nose (1.6875")	0.25	1.69	0.99

Dataset:	tep_5-mile ranch sg 533-26_pn_11-28-18.db: field/well/run1/Main.2
Total length:	18.02 ft
Total weight:	86.48 lb
O.D.:	1.69 in

Calibration Report

Database File	f:\data\tep\5 mile ranch sg 533-26\pn\tep_5-mile ranch sg 533-26_pn_11-28-18.db
Dataset Pathname	Main.2
Dataset Creation	Wed Nov 28 03:20:06 2018

Gamma Ray Calibration Report

Serial Number:	001681	
Tool Model:	001	
Performed:	(Not Performed)	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	
Calibrator Reading:	1.0	
Sensitivity:	1.0000	GAPI/

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