RELIANCE
OILFIELD SERVICES

Pulsed Neutron Gamma Ray Casing Collar Log

Company	TEP Rocky Mountain LLC
Well	Tri State Trucking PA 524-24
Field	Parachute
County	Garfield
State	Colorado

Company TEP Rocky Mountain LLC
Well Tri State Trucking PA 524-24
Field Parachute
County Garfield State Colorado
Location: API # : 05-045-23660
Other Services: RBL
SEC 25 TWP 6S RGE 95W

Permanent Datum	Ground Level	Elevation 5223.8'	Elevation K.B. 5247.8' D.F. 5246.8' G.L. 5223.8'
Log Measured From	Kelly Bushing	24 FT	
Drilling Measured From	Kelly Bushing		

Date	24-MAR-2018
Run Number	One
Depth Driller	8568 FT
Depth Logger	8519 FT
Bottom Logged Interval	8519 FT
Top Log Interval	3893 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	1137 FT
Intermediate #1	4 1/2	11.6	P-110	Surface	8525 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 23-MAR-2018
Log ran from 8519 FT to 3893 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	tep\pa 524-24\pn\tep_tri state trucking pa 524-24_pn_03-24-18.db
Dataset Pathname	main1.3
Presentation Format	ros_pdn_hunter
Dataset Creation	Sat Mar 24 11:58:18 2018
Charted by	Depth in Feet scaled 1:240

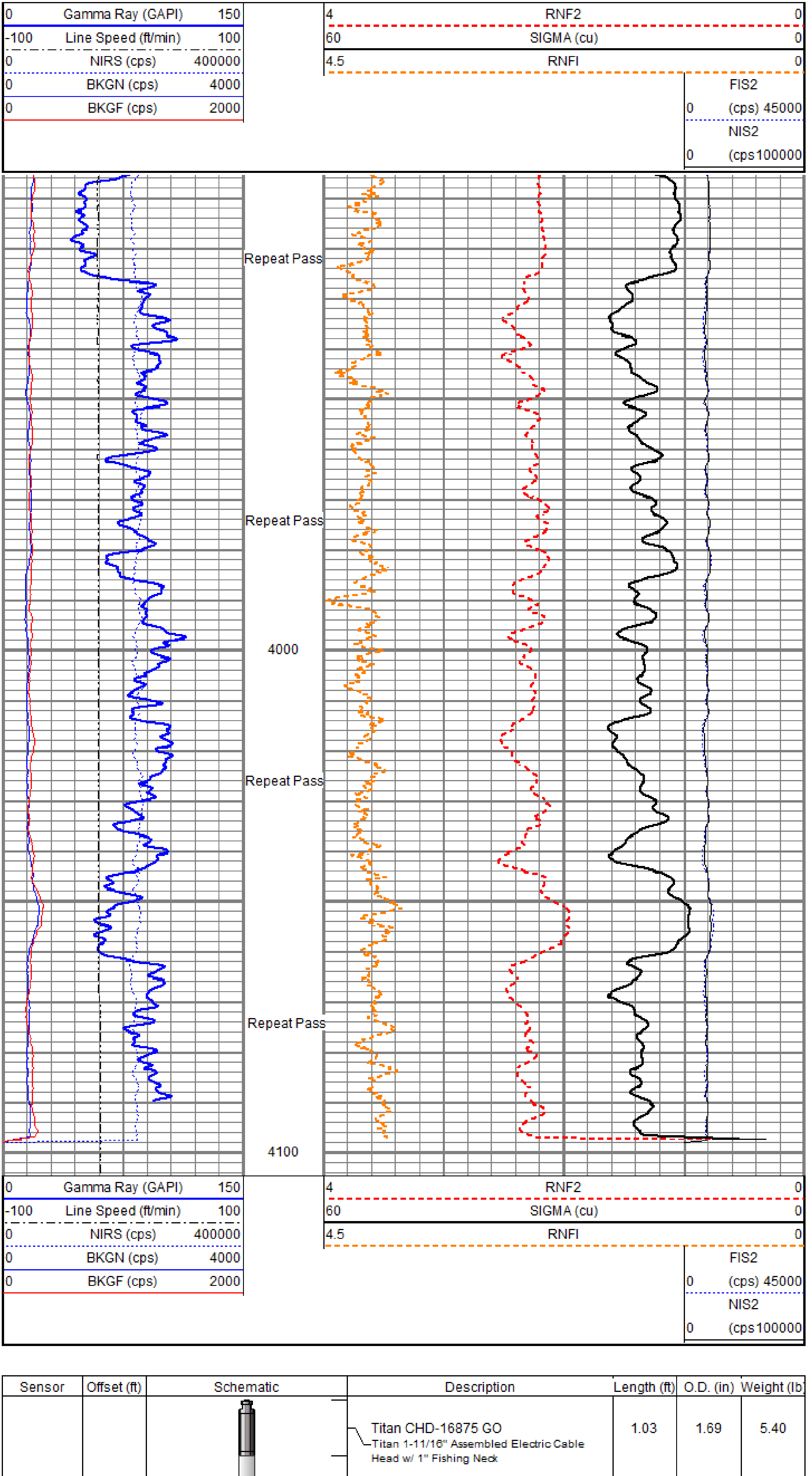
0 Gamma Ray (GAPI) 150
Casing Collar Locator
-100 Line Speed (ft/min) 100
0 NIRS (cps) 400000
0 BKGN (cps) 4000
0 BKGF (cps) 2000

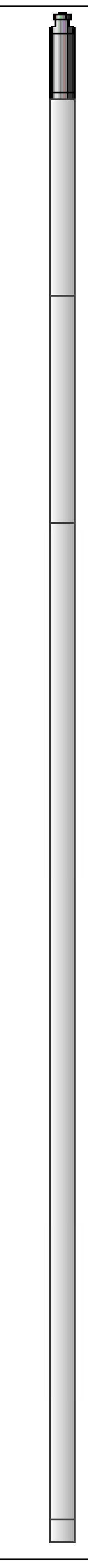
4 RNF2 0
60 SIGMA (cu) 0
4.5 RNFI 0

FIS2
0 (cps) 45000
NIS2
0 (cps 100000

Repeat Pass

Database File tep\pa 524-24\pn\tep_tri state trucking pa 524-24_pn_03-24-18.db
Dataset Pathname Repeat.3
Presentation Format ros_pdn_hunter
Dataset Creation Sat Mar 24 12:02:03 2018
Charted by Depth in Feet scaled 1:240



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 (001475) 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	6.00 6.00 6.00 6.00		HWS_RAS-RAS002_Invt (003040_Invt) Hunter Well Science Pulsed Neutron Tool (Inverted)	11.75	1.69	55.82
			HWS_TBN-001 (001724) HWS Terminator Bull Nose (1.6875")	0.25	1.69	0.99

Dataset: tep_tri state trucking pa 524-24_pn_03-24-18.db: field/well/run1/main1.3
Total length: 18.02 ft
Total weight: 86.48 lb
O.D.: 1.69 in

Calibration Report

Database File c:\programdata\warrior\data\tep\pa 524-24\pn\tep_tri state trucking pa 524-24_pn_03-24-18.db
Dataset Pathname main1.3
Dataset Creation Sat Mar 24 11:58:18 2018

Gamma Ray Calibration Report

Serial Number:	001475	
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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