RELIANCE
OILFIELD SERVICES

Pulsed Neutron
Gamma Ray
Casing Collar Log

Company TEP Rocky Mountain LLC
Well Tri State Trucking PA 21-25
Field Parachute
County Garfield
State Colorado

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County Garfield State Colorado
Location: API # : 05-045-23655
SEC 25 TWP 6S RGE 95W
Other Services
RBL

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

Date	04-APR-2018
Run Number	One
Depth Driller	8540 FT
Depth Logger	8466 FT
Bottom Logged Interval	8462 FT
Top Log Interval	4395 FT
Open Hole Size	8.750"
Type Fluid	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	Z. Fisher
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	1127 FT
Intermediate #1	4 1/2	11.6	P-110	Surface	8498 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 03-APR-2018
Log ran from 8462 FT to 4395 FT
Pulsed Neutron Data logged with the Hunter RAS Tool

Thank you for choosing Reliance Oilfield Services, LLC!

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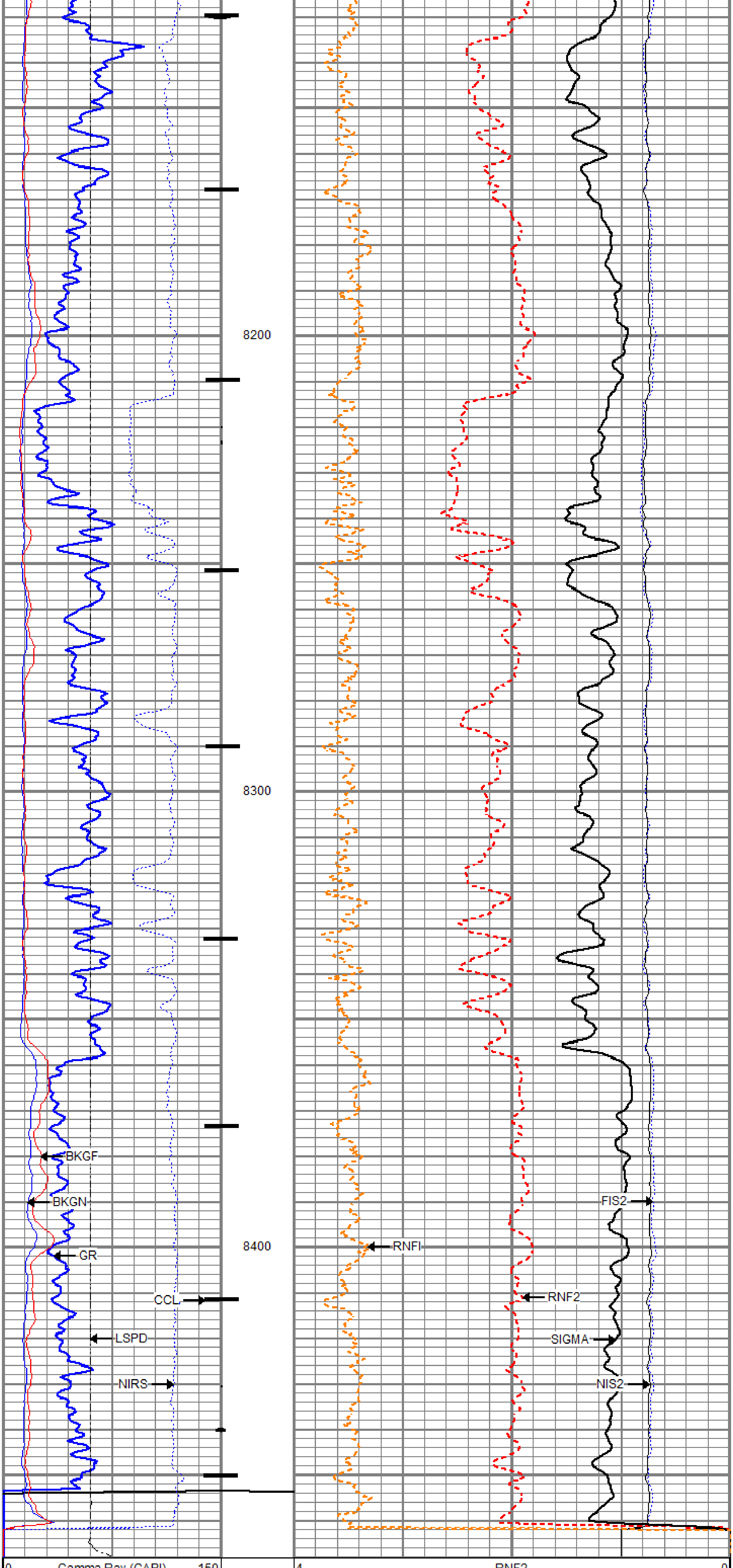
Main Pass

Database File	tep\tri state trucking pa 21-25\tep_tri state trucking pa 21-25_pn_04-03-18.db
Dataset Pathname	tri_state_trucking_pa_21-25_pn_main_shi
Presentation Format	ros_pdn_hunter
Dataset Creation	Wed Apr 04 14:10:03 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

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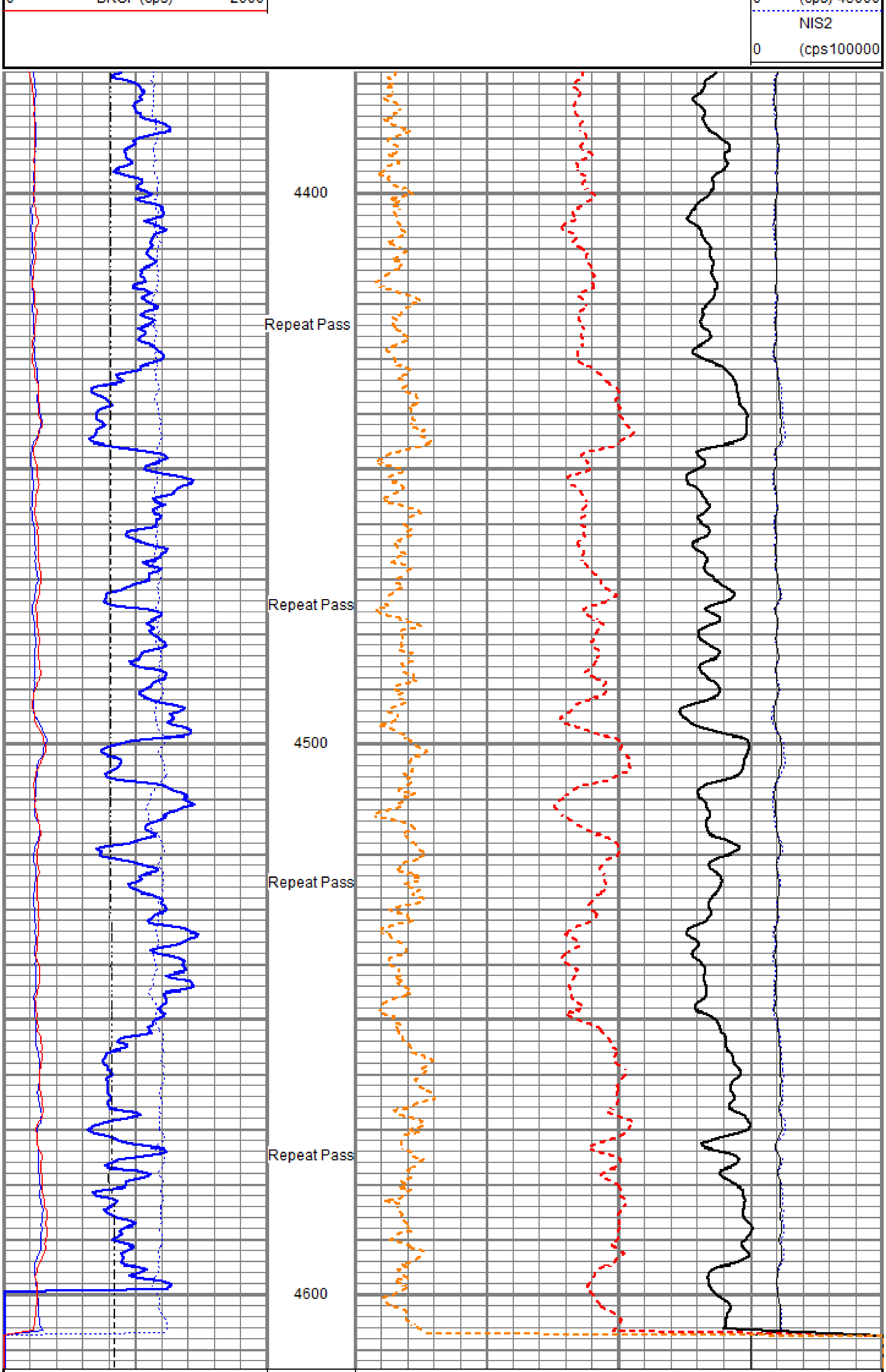
Repeat Pass

Database File	tep\tri state trucking pa 21-25\tep_tri state trucking pa 21-25_pn_04-03-18.db
Dataset Pathname	tri_state_trucking_pa_21-25_pn_repeat_s
Presentation Format	ros_pdn_hunter
Dataset Creation	Wed Apr 04 14:14:48 2018
Charted by	Depth in Feet scaled 1:240

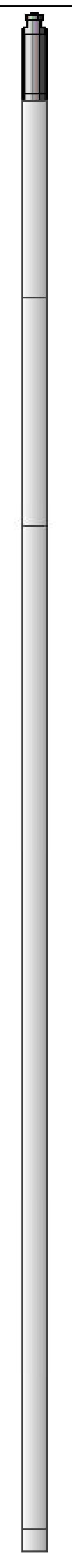
0	Gamma Ray (GAPI)	150
-100	Line Speed (ft/min)	100
0	NIRS (cps)	400000
0	BKGN (cps)	4000
0	BKGF (cps)	2000

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



0	Gamma Ray (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
TCUTEMP TCUVOLT GCL_CCL	14.69 14.69 13.97		HWS_TCU-002 (001704) HWS Telemetry Control Unit (TCU002)	2.30	1.69	10.87
GCL_GR	12.50		HWS_GCL-001 (001475) HWS Gamma Ray Collar Locator (1.6875")	2.69	1.69	13.40
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
GCL_GR	0.25		HWS_TBN-001 (001725) HWS Terminator Bull Nose (1.6875")	0.25	1.69	0.99

Dataset: tep_tristatetrucking_pa_21-25_pn_04-apr-2018.db: field/well/run1/main
Total length: 18.02 ft
Total weight: 86.48 lb
O.D.: 1.69 in

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Company	TEP Rocky Mountain LLC
Well	Tri State Trucking PA 21-25
Field	Parachute
County	Garfield
State	Colorado