RELIANCE
OILFIELD SERVICES

Pulsed Neutron
Gamma Ray
Casing Collar Log

Company TEP Rocky Mountain LLC
Well Ware SR 314-12
Field Rulison
County Garfield
State Colorado

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Well Ware SR 314-12
Field Rulison
County Garfield State Colorado
Location: API # : 05-045-23453
SEC 12 TWP 7S RGE 94W

Other Services
RBL

Permanent Datum	Ground Level	Elevation 7479'	Elevation K.B. 7503' D.F. 7502' G.L. 7479'
Log Measured From	Kelly Bushing	24 FT	
Drilling Measured From	Kelly Bushing		

Date	18-FEB-2018
Run Number	Two
Depth Driller	9978 FT
Depth Logger	9925 FT
Bottom Logged Interval	9919 FT
Top Log Interval	5840 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
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	1158 FT
Intermediate #1	4 1/2	11.6	P-110	Surface	9938 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 17-FEB-2018
Log ran from 9919 FT to 5840 FT
Pulsed Neutron Data logged with the Hunter RAS Tool

Thank you for choosing Reliance Oilfield Services, LLC!!

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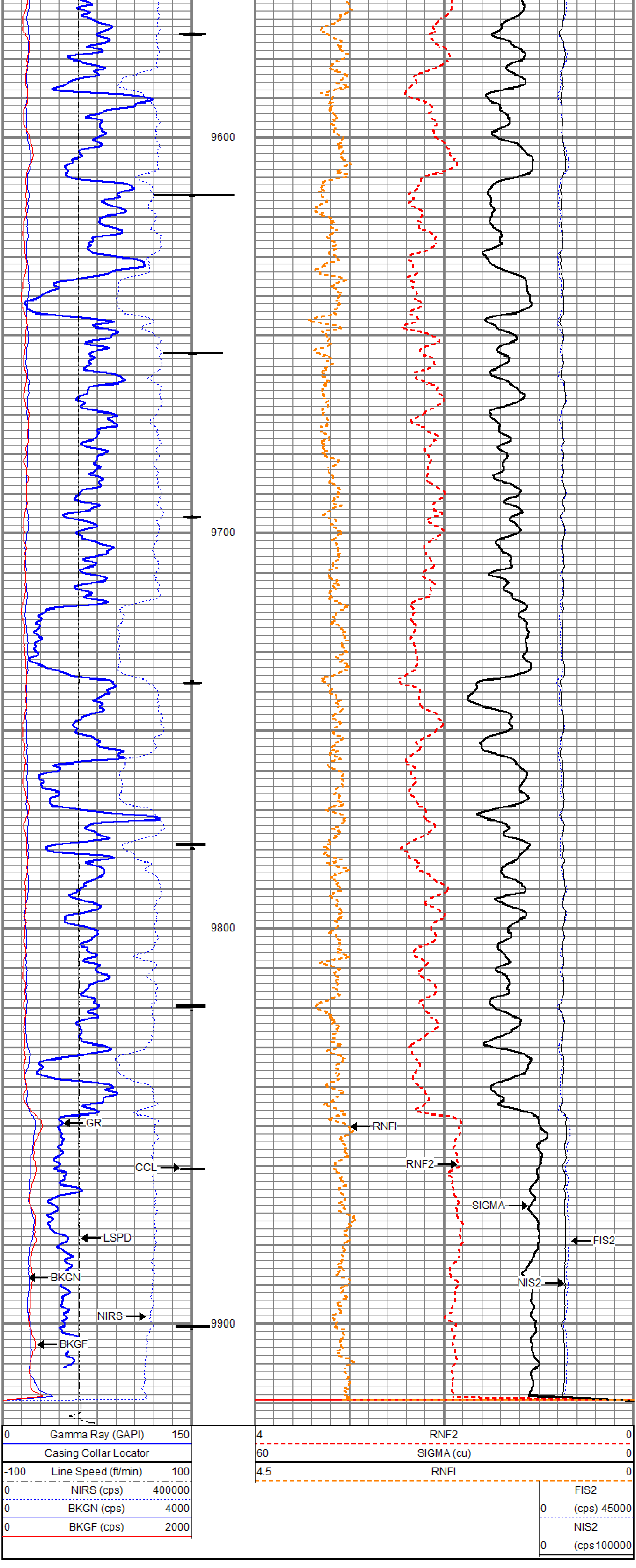
Main Pass

Database File tep\sr 314-12\pn\tep_sr_314-12_pn_feb-18-2018.db
Dataset Pathname main.2
Presentation Format ros_pdn_hunter
Dataset Creation Sun Feb 18 17:57:00 2018
Charted by Depth in Feet scaled 1:240



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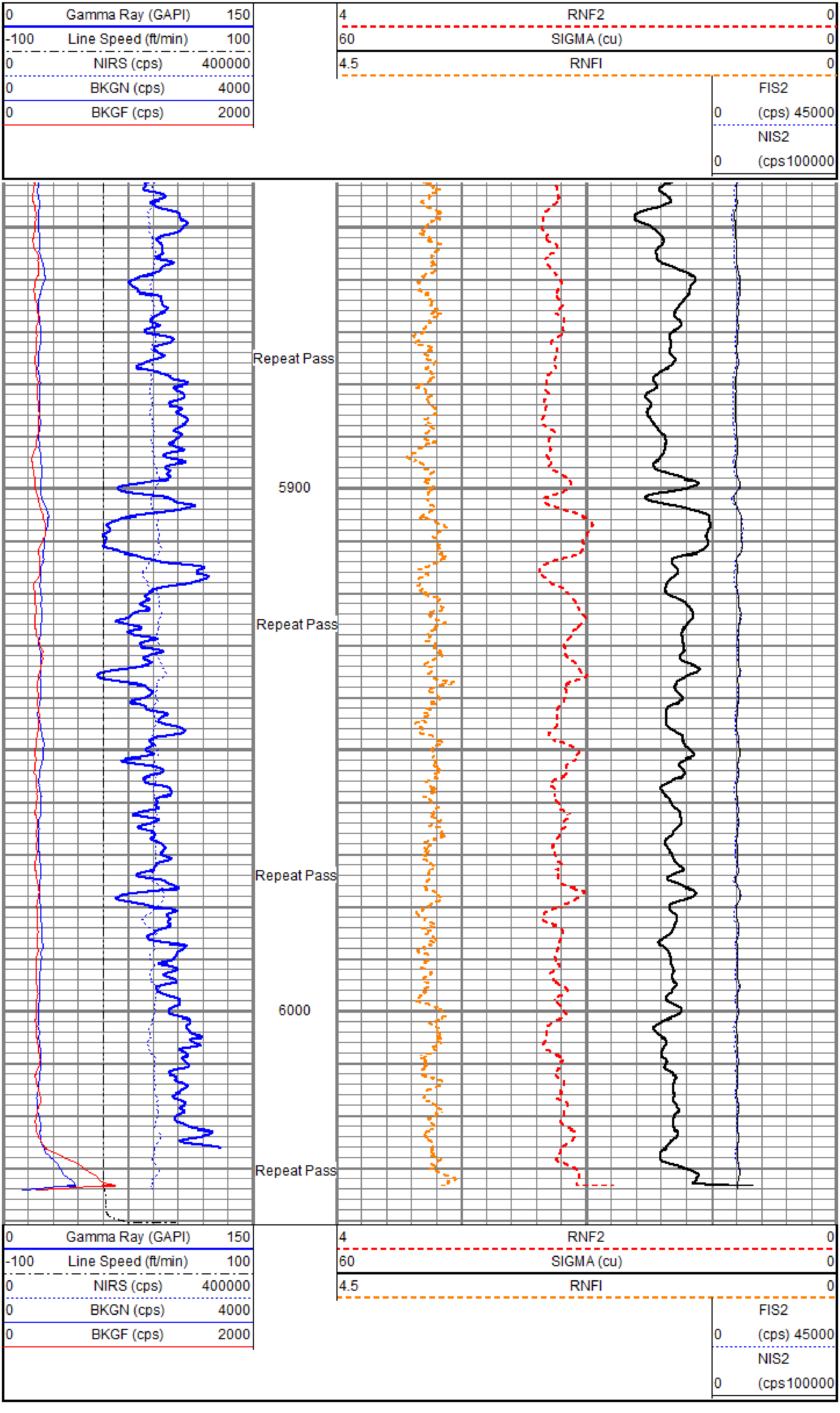
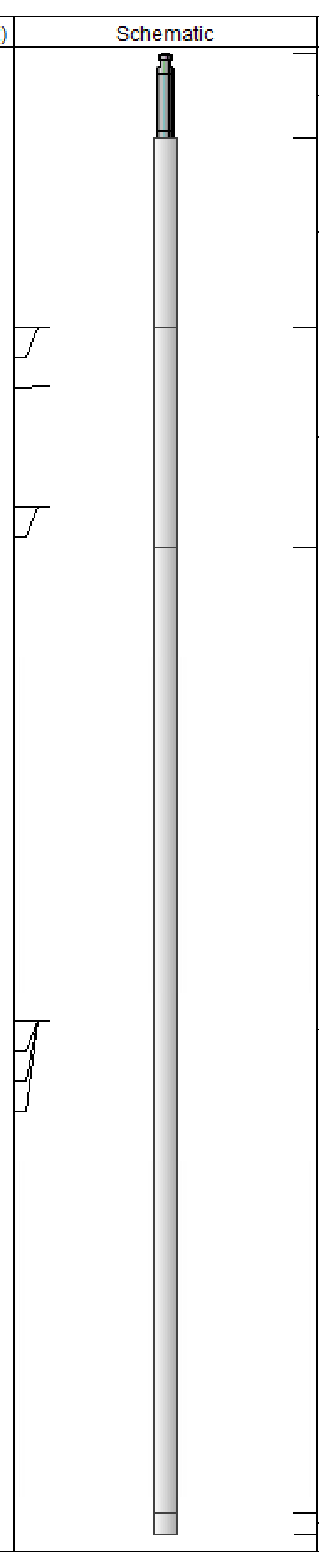
Repeat Pass

Database File	tep\sr 314-12\pn\tep_sr_314-12_pn_feb-18-2018.db
Dataset Pathname	repeat.2
Presentation Format	ros_pdn_hunter
Dataset Creation	Sun Feb 18 17:57:57 2018
Charted by	Depth in Feet scaled 1:240



Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			Titan CHD-1375 MOD Titan Modified 1-3/8" Assembled Electric Cable Head w/ 1" Fishing Neck	1.04	1.38	1.00
TCUTEMP TCUVOLT	14.69 14.69		HWS_TCU-002 (001705) HWS Telemetry Control Unit (TCU002)	2.30	1.69	10.87
GCL_CCL GCL_GR GCL_GR	13.97 12.50 12.50		HWS_GCL-001 (001681) HWS Gamma Ray Collar Locator (1.6875")	2.69	1.69	13.40
Long Far Near Anci	6.25 6.25 6.25 6.25		HWS_RAS-RAS001 (003041) Hunter Well Science Pulsed Neutron Tool	11.75	1.69	55.82
			HWS_TBN-001 (000001) HWS Terminator Bull Nose (1.6875")	0.25	1.69	0.99

Dataset:	tep_sr_314-12_pn_feb-18-2018.db: field/well/run1/main.2
Total length:	18.03 ft
Total weight:	82.08 lb
O.D.:	1.69 in

Calibration Report

Database File	c:\programdata\warrior\data\tep\sr 314-12\pn\tep_sr_314-12_pn_feb-18-2018.db
Dataset Pathname	main.2
Dataset Creation	Sun Feb 18 17:57:00 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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Well	Ware SR 314-12
Field	Rulison
County	Garfield
State	Colorado