RELIANCE
OILFIELD SERVICES

Company TEP Rocky Mountain LLC
Well Chevron TR 321-23-597
Field Trail Ridge
County Garfield
State Colorado

Pulsed Neutron Gamma Ray Casing Collar Log

Company TEP Rocky Mountain LLC
Well Chevron TR 321-23-597
Field Trail Ridge
County Garfield State Colorado
Location: API # : 05-045-23463
2503' FNL & 1431' FEL SWNE
SEC 23 TWP 5S RGE 97W

Other Services
RBL

Permanent Datum Ground Level Elevation 8545.2'
Log Measured From Kelly Bushing 24 FT
Drilling Measured From Kelly Bushing

Elevation
K.B. 8569.2'
D.F. 8568.2'
G.L. 8545.2'

Date	27-SEPT-2017
Run Number	One
Depth Driller	10686 FT
Depth Logger	10628 FT
Bottom Logged Interval	10622 FT
Top Log Interval	6585 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	A.Rivera
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	3040 FT
Intermediate #1	4 1/2	11.6	P-110	Surface	10643FT
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 04-SEPT-2017
Log ran from 10622 FT to 6585 FT
PDN data logged with Anteres Pulsed Neutron Tool

Thank you for choosing Reliance Oilfield Services, LLC!!

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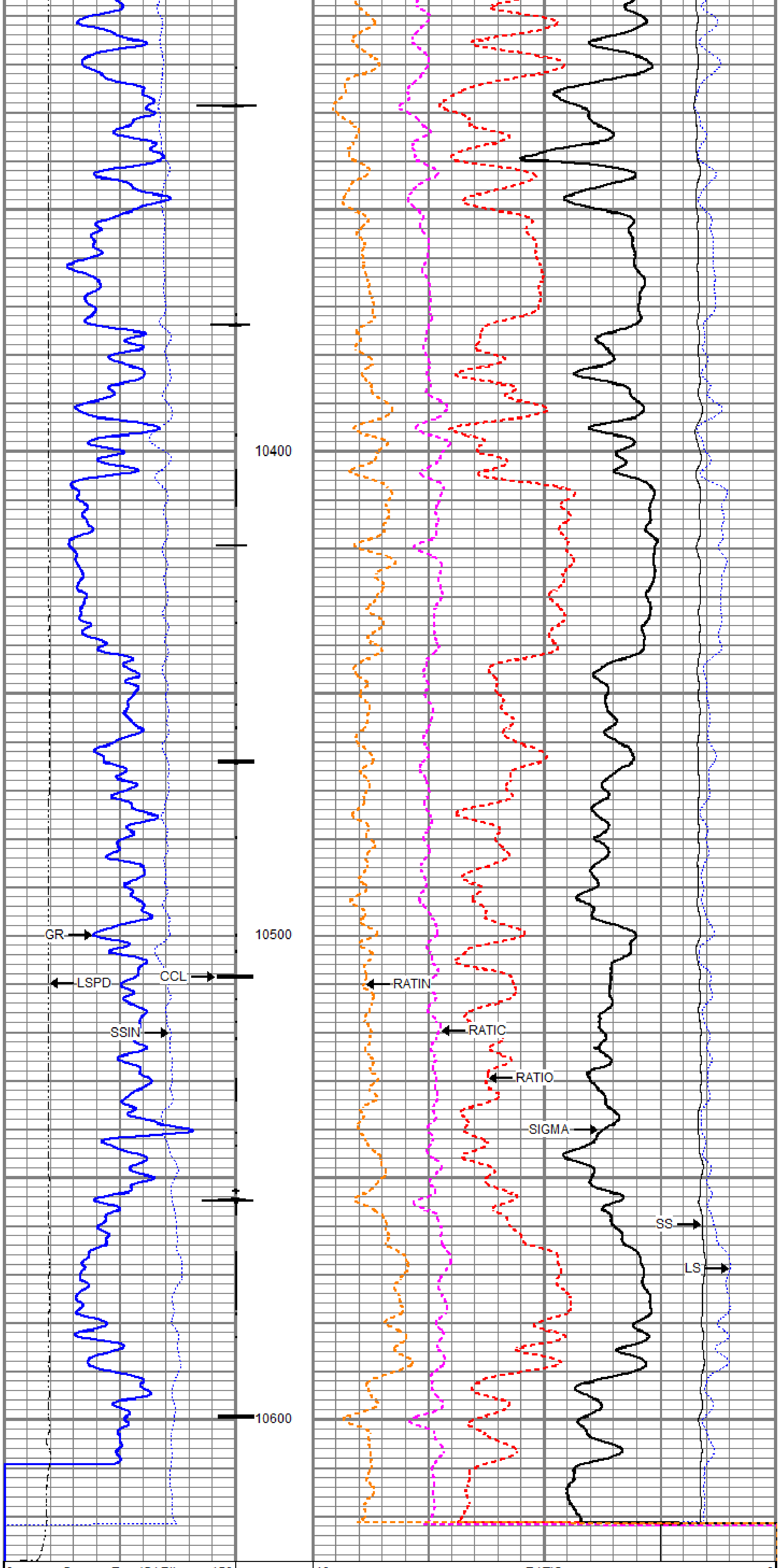
Main Pass

Database File tep\chevron tr 321-23-597\pdn\tep_chevron tr 321-23-597_pdn_09-27-17.db
Dataset Pathname chevron_tr_321-23-597_pdn_main_shift
Presentation Format ros_pdn
Dataset Creation Fri Sep 29 18:10:17 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

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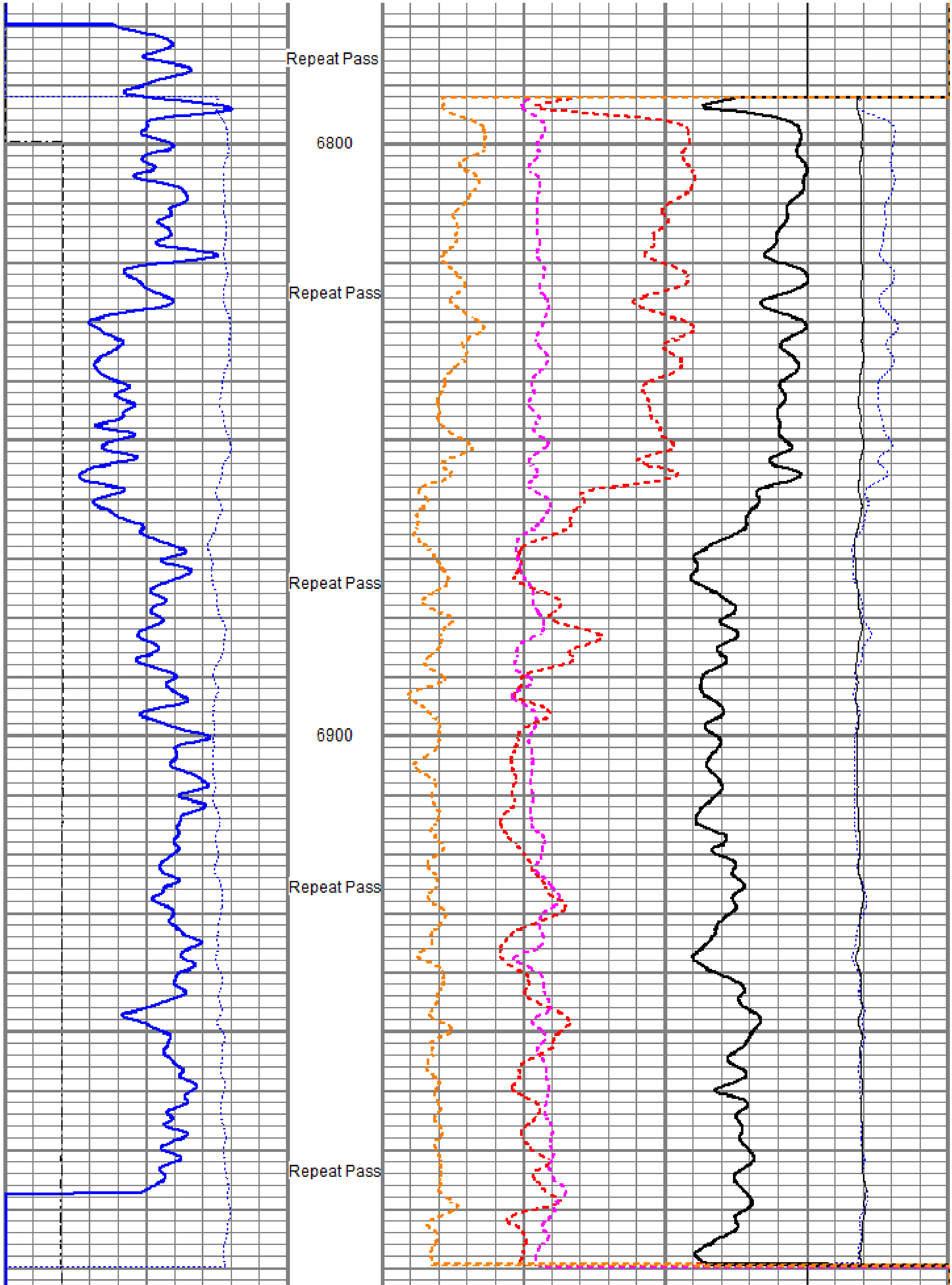
Repeat Pass

Database File	tep\chevron tr 321-23-597\pdn\tep_chevron tr 321-23-597_pdn_09-27-17.db
Dataset Pathname	repeat/chevron_tr_321-23-597_pdn_repeat_shift
Presentation Format	ros_pdn
Dataset Creation	Sat Sep 30 02:05:03 2017
Charted by	Depth in Feet scaled 1:240

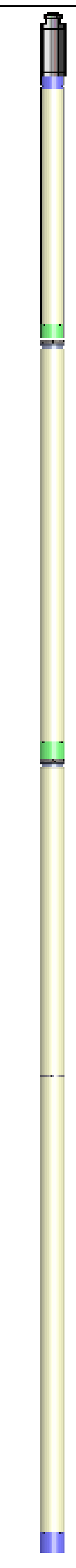
0 Gamma Ray (GAPI) 150
0 Line Speed (ft/min) 100
0 SSIN (cps) 500000

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
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

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb
			Titan_Electric_Cable_Heads-Titan_1-1 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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