RELIANCE OILFIELD SERVICES

Pulsed Neutron Gamma Ray Casing Collar Log

Company	TEP Rocky Mountain LLC
Well	Chevron TR 24-23-597
Field	Trail Ridge
County	Garfield
State	Colorado

Company TEP Rocky Mountain LLC
Well Chevron TR 24-23-597
Field Trail Ridge
County Garfield State Colorado
Location: API # : 05-045-23476
SEC 23 TWP 5S RGE 97W

Other Services
RBL

Permanent Datum	Ground Level	Elevation	8545'	Elevation
Log Measured From	Kelly Bushing	24 FT		K.B. 8569' D.F. 8568' G.L. 8545'
Drilling Measured From	Kelly Bushing			

Date	27-AUG-2017
Run Number	One
Depth Driller	10483 FT
Depth Logger	10425 FT
Bottom Logged Interval	10418 FT
Top Log Interval	6354 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	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	3017 FT
Intermediate #1	4 1/2	11.6	P-110	Surface	10441 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 per customer request
Depth referenced to Reliance Bond Log dated 25-AUG-2017
Log ran from 10418 FT to 6354 FT
PDN data logged with Anteres Pulsed Neutron Tool

Thank you for choosing Reliance Oilfield Services, LLC!!

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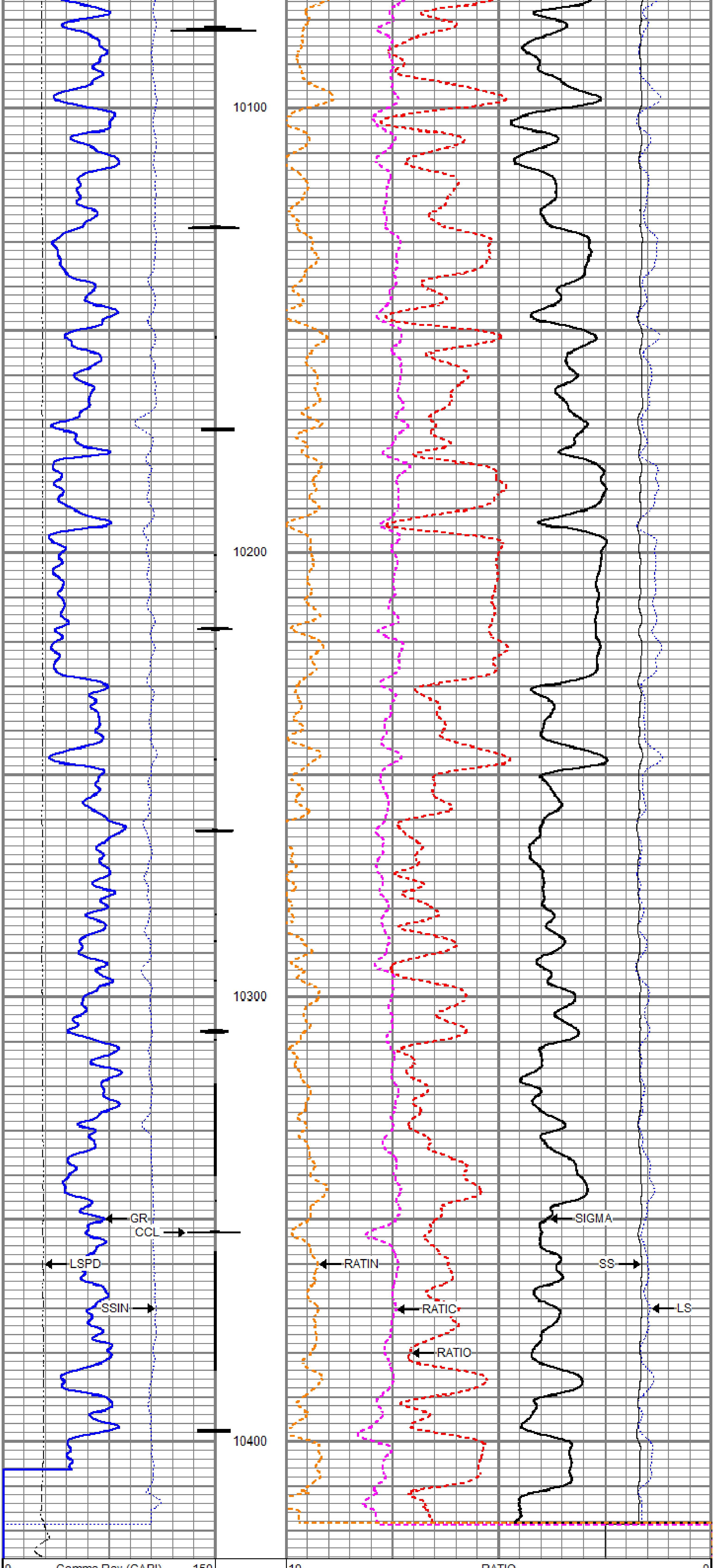
Main Pass

Database File	tep\chevron tr 24-23-597\tep_chevron tr 24-23-597_pdn_08-27-17.db
Dataset Pathname	chevron_tr_24-23-597_pdn_main_shift_for
Presentation Format	ros_pdn
Dataset Creation	Thu Aug 31 16:59:24 2017
Charted by	Depth in Feet scaled 1:240



0	Gamma Ray (GAPI)	150	10	RATIO	0
	Casing Collar Locator		60	SIGMA (cu)	0
0	Line Speed (ft/min)	100	0.35	RATIC	0
0	*SSIN (cps)*	500000	11	RATIN	0

0 LS (cps) 0000
SS
0 (cps4e+006

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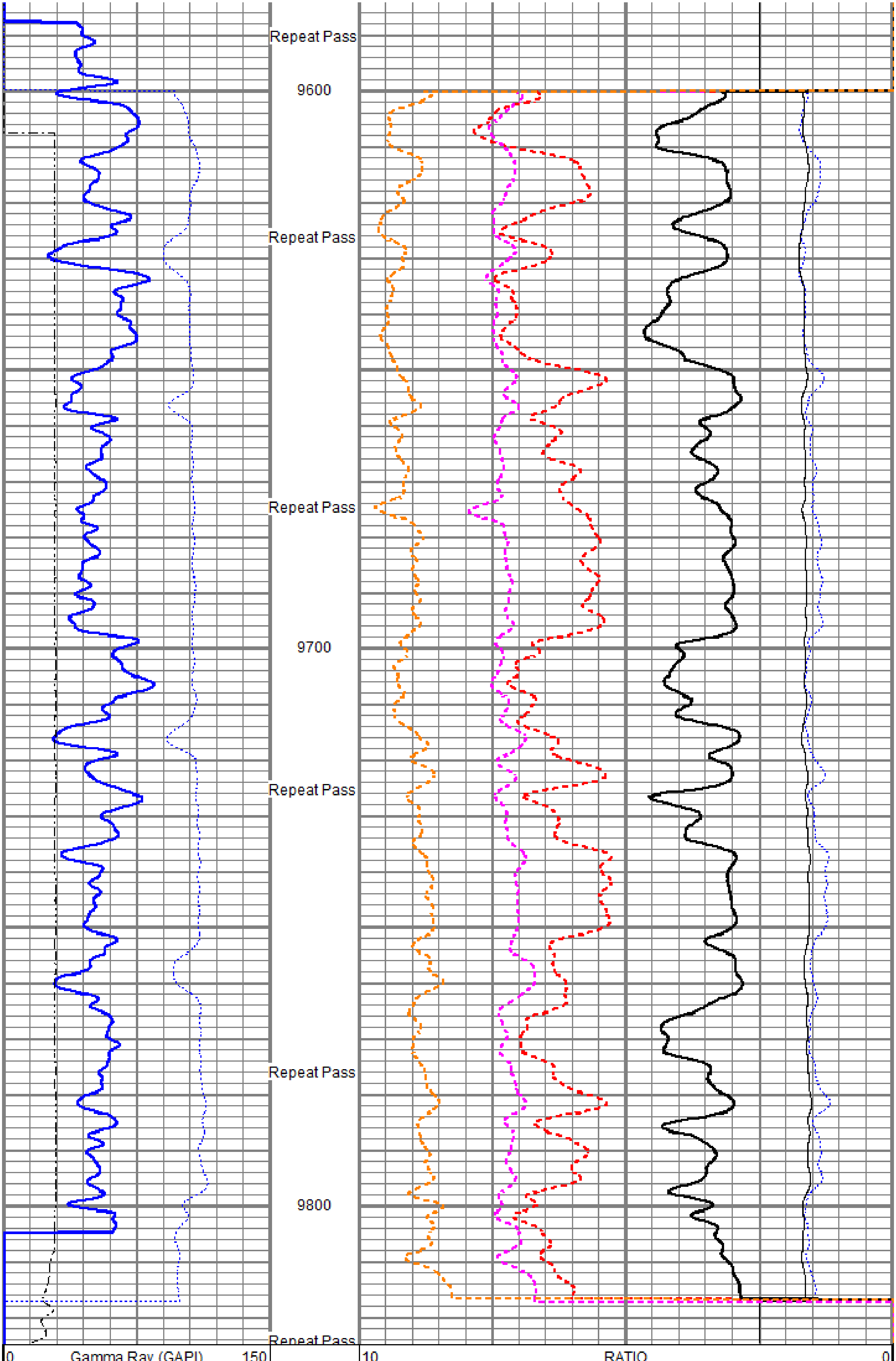
Repeat Pass

Database File	tep\chevron tr 24-23-597\tep_chevron tr 24-23-597_pdn_08-27-17.db
Dataset Pathname	repeat/chevron_tr_24-23-597_pdn_repeat_shift_f
Presentation Format	ros_pdn
Dataset Creation	Thu Aug 31 17:24:30 2017
Charted by	Depth in Feet scaled 1:240

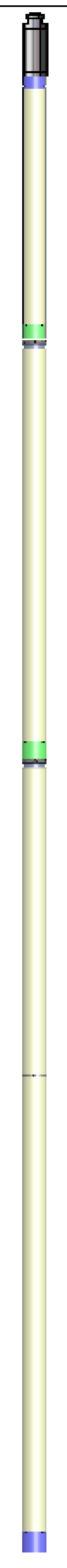
0	Gamma Ray (GAPI)	150	10	RATIO	0
0	Line Speed (ft/min)	100	60	SIGMA (cu)	0
0	SSIN (cps)	500000	0.35	RATIC	0
			11	RATIN	0

0 LS (cps) 0000
SS
0 (cps4e+006



0	Gamma Ray (GAPI)	150	10	RATIO	0
0	Line Speed (ft/min)	100	60	SIGMA (cu)	0
0	SSIN (cps)	500000	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_1-11/1 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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