RELIANCE
OILFIELD SERVICES

Pulsed Neutron Gamma Ray Casing Collar Log

Company	TEP Rocky Mountain LLC
Well	Youberg SR 441-12
Field	Rulison
County	Garfield
State	Colorado

Company TEP Rocky Mountain LLC
Well Youberg SR 441-12
Field Rulison
County Garfield State Colorado
Location: API # : 05-045-23300
SEC 12 TWP 7S RGE 94W
Other Services RBL

Permanent Datum	Ground Level	Elevation	7254'	Elevation K.B. 7278' D.F. 7277' G.L. 7254'
Log Measured From	Kelly Bushing	24 FT		
Drilling Measured From	Kelly Bushing			

Date	11-SEPT-2017
Run Number	One
Depth Driller	9650 FT
Depth Logger	9582 FT
Bottom Logged Interval	9575 FT
Top Log Interval	5347 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. Ellsworth
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	1131 FT
Intermediate #1	4 1/2	11.6	P-110	Surface	9608 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 12-SEPT-2017
Log ran from 9575 FT to 5347 FT
PDN data logged with Anteres Pulsed Neutron Tool

Thank you for choosing Reliance Oilfield Services, LLC!!

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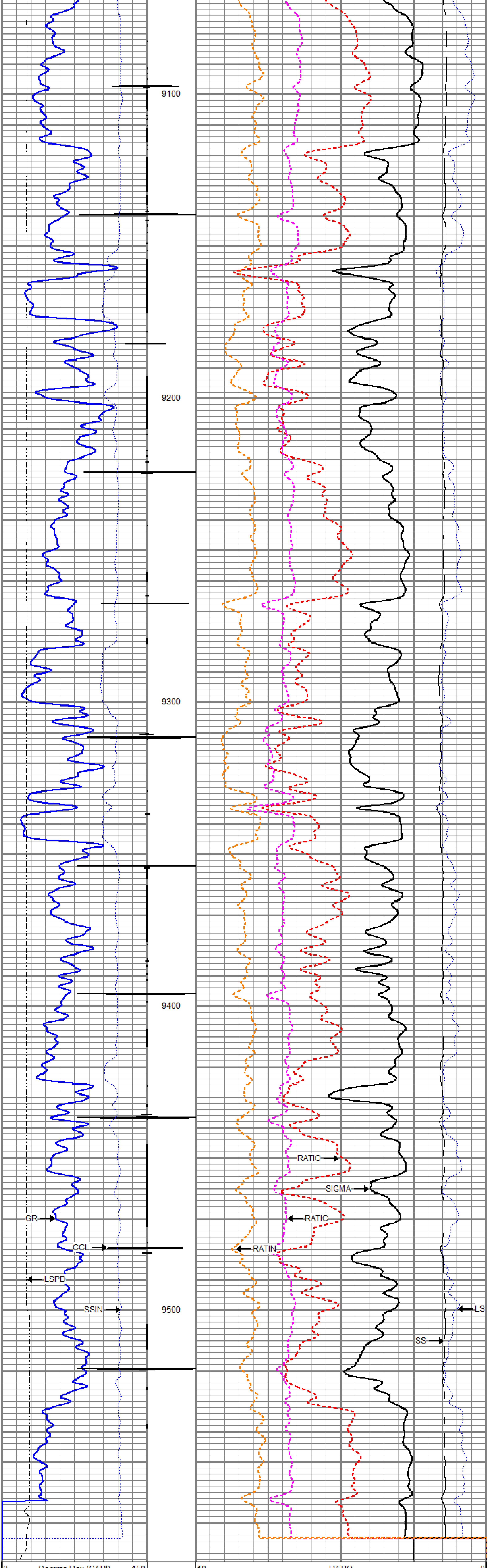
Main Pass

Database File	tep\youberg sr 441-12\tep_youberg sr 441-12_pdn_09-11-17.db
Dataset Pathname	tep__youberg_sr_441-12_pdn_09-11-2017_m
Presentation Format	ros_pdn
Dataset Creation	Thu Sep 14 13:41:39 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	(cps	4e+006



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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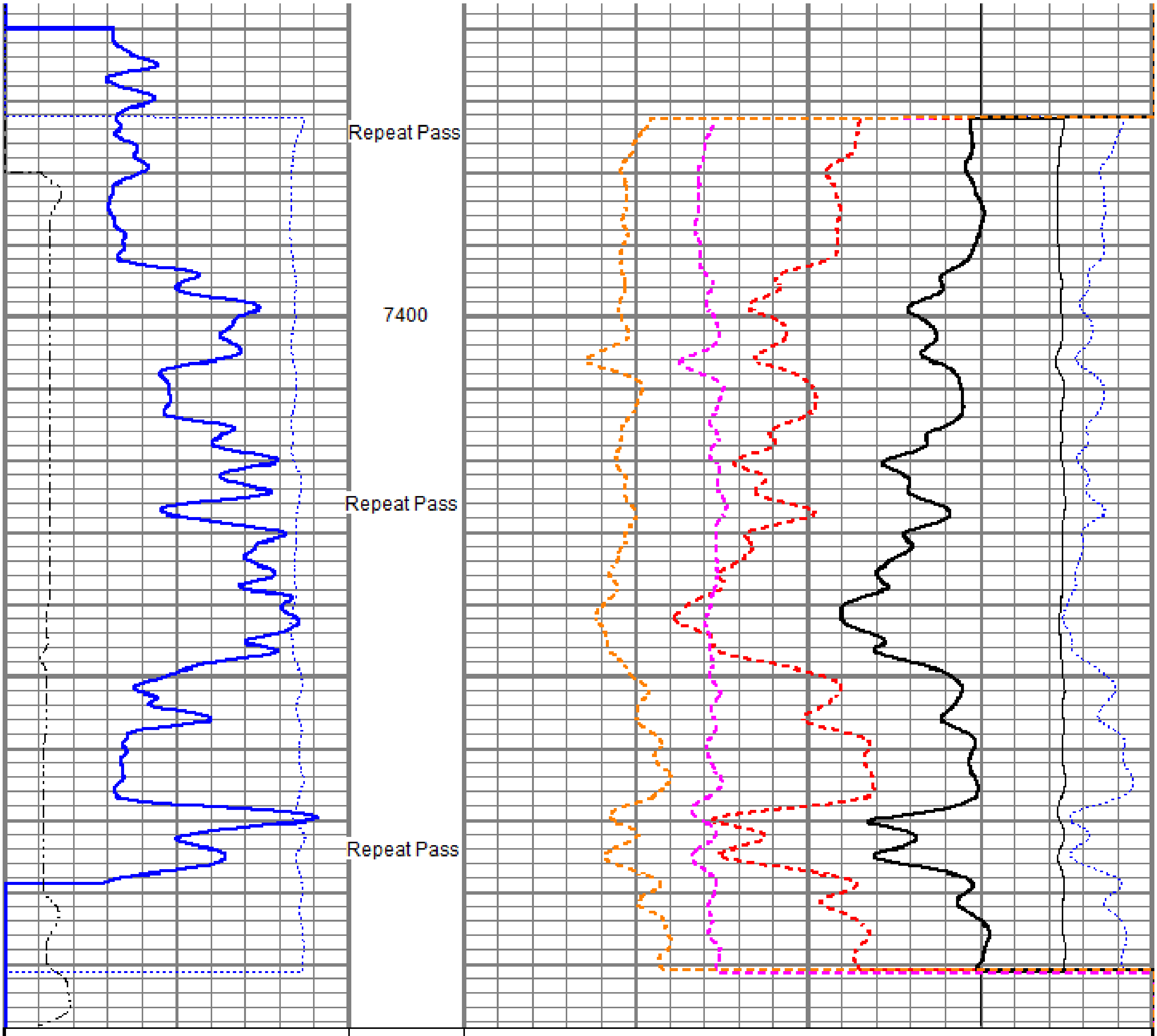
Repeat Pass

Database File	tep\youberg sr 441-12\tep_youberg sr 441-12_pdn_09-11-17.db
Dataset Pathname	repeat/tep__youberg_sr_441-12_pdn_09-11-2017_r
Presentation Format	ros_pdn
Dataset Creation	Thu Sep 14 14:20:42 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

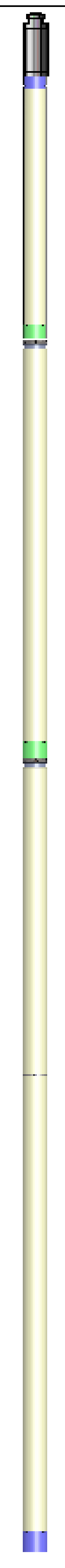
0	LS (cps)	0000
	SS	
0	(cps4e+006	



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_1-11/1 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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