RELIANCE OILFIELD SERVICES

Pulsed Neutron Gamma Ray Casing Collar Log

Company TEP Rocky Mountain LLC
Well Chevron TR 422-23-597
Field Trail Ridge
County Garfield State Colorado
Location: API # : 05-045-23458
2540' FNL & 1458' 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'

Company TEP Rocky Mountain LLC
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Date	20-SEPT-2017
Run Number	One
Depth Driller	10362 FT
Depth Logger	10291 FT
Bottom Logged Interval	10286 FT
Top Log Interval	6078 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	3007 FT
Intermediate #1	4 1/2	11.6	P-110	Surface	10310 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 04-SEPT-2017
Log ran from 10286 FT to 6078 FT
PDN data logged with Anteres Pulsed Neutron Tool

Thank you for choosing Reliance Oilfield Services, LLC!!

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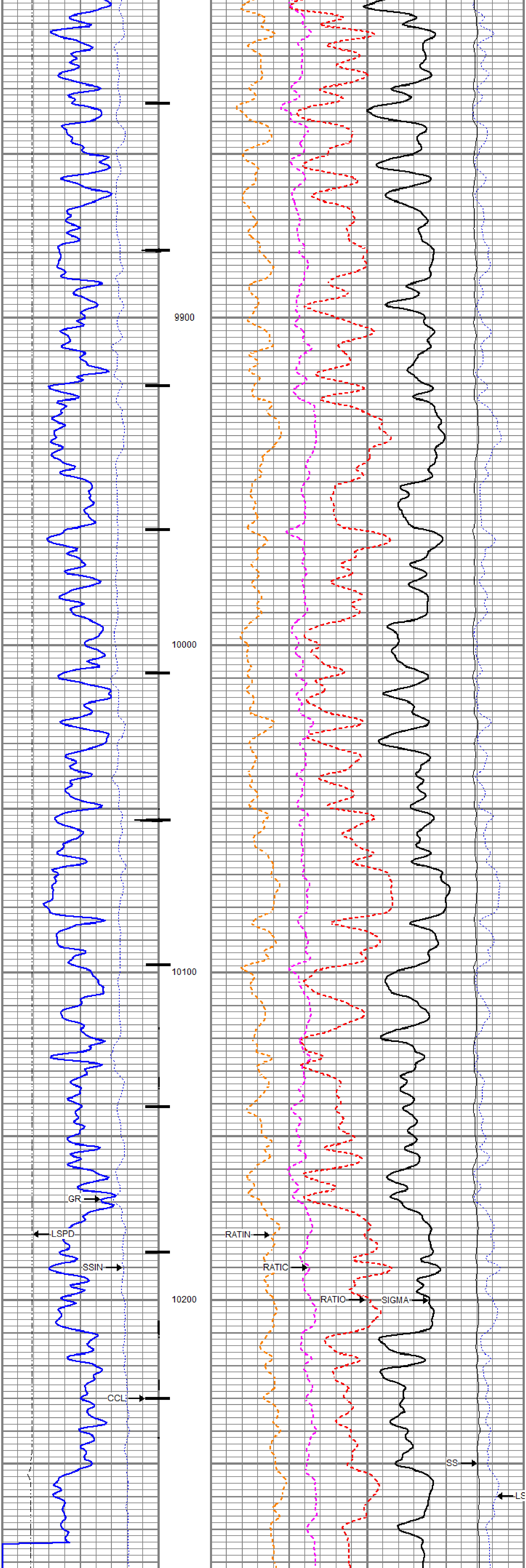
Main Pass

Database File	tep\chevron tr 422-23-597\pdn\processed_tep_chevron tr 422-23-597_pdn_09-20-17.db
Dataset Pathname	tep_chevron_tr_422-23-597_pdn_09-20-17_
Presentation Format	ros_pdn
Dataset Creation	Thu Sep 21 18:03:13 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

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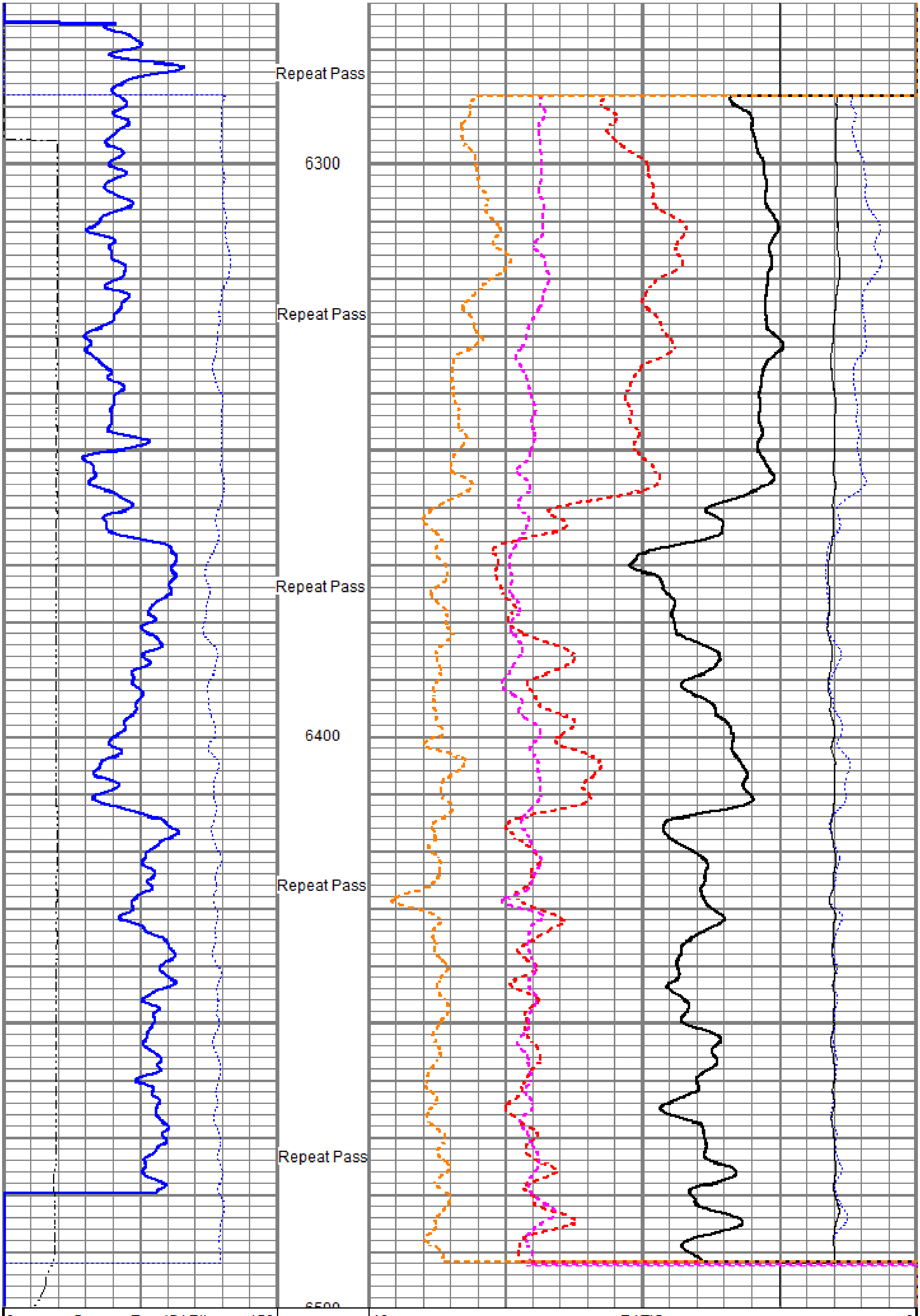
Repeat Pass

Database File tep\chevron tr 422-23-597\pdn\processed_tep_chevron tr 422-23-597_pdn_09-20-17.db
Dataset Pathname repeat/tep_chevron_tr_422-23-597_pdn_repeat_sh
Presentation Format ros_pdn
Dataset Creation Thu Sep 21 18:12:32 2017
Charted by Depth in Feet scaled 1:240

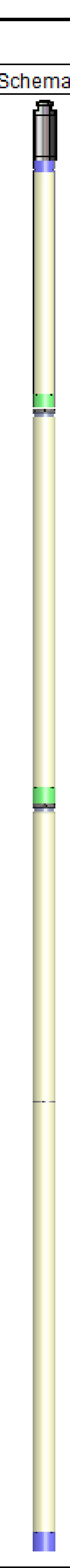
0	Gamma Ray (GAPI)	150
0	Line Speed (ft/min)	100
0	SSIN (cps)	500000

10	RATIO	0
60	SIGMA (cu)	0
0.35	RATIC	0
11	RATIN	0
0	LS (cps)	0000
	SS	
0	(cps	4e+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	(cps	4e+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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Field	Trail Ridge
County	Garfield
State	Colorado