RELIANCE OILFIELD SERVICES

Pulsed Neutron Gamma Ray Casing Collar Log

Company	TEP Rocky Mountain LLC
Well	Chevron TR 512-24-597
Field	Trail Ridge
County	Garfield
State	Colorado

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Field Trail Ridge
County Garfield State Colorado

Location: API # : 05-045-23467
2515' FNL & 1428' FEL SWNE
SEC 23 TWP 5S RGE 97W

Other Services
RBL

			Elevation
Permanent Datum	Ground Level	Elevation	8545.2'
Log Measured From	Kelly Bushing	24 FT	K.B. 8569.2'
Drilling Measured From	Kelly Bushing		D.F. 8568.2' G.L. 8545.2'

Date	26-SEPT-2017
Run Number	One
Depth Driller	10392 FT
Depth Logger	10294 FT
Bottom Logged Interval	10287 FT
Top Log Interval	6175 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	J. Skalla

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	3025 FT
Intermediate #1	4 1/2	11.6	P-110	Surface	10351 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 05-SEPT-2017
Log ran from 10287 FT to 6175 FT
PDN data logged with Anteres Pulsed Neutron Tool

Thank you for choosing Reliance Oilfield Services, LLC!!

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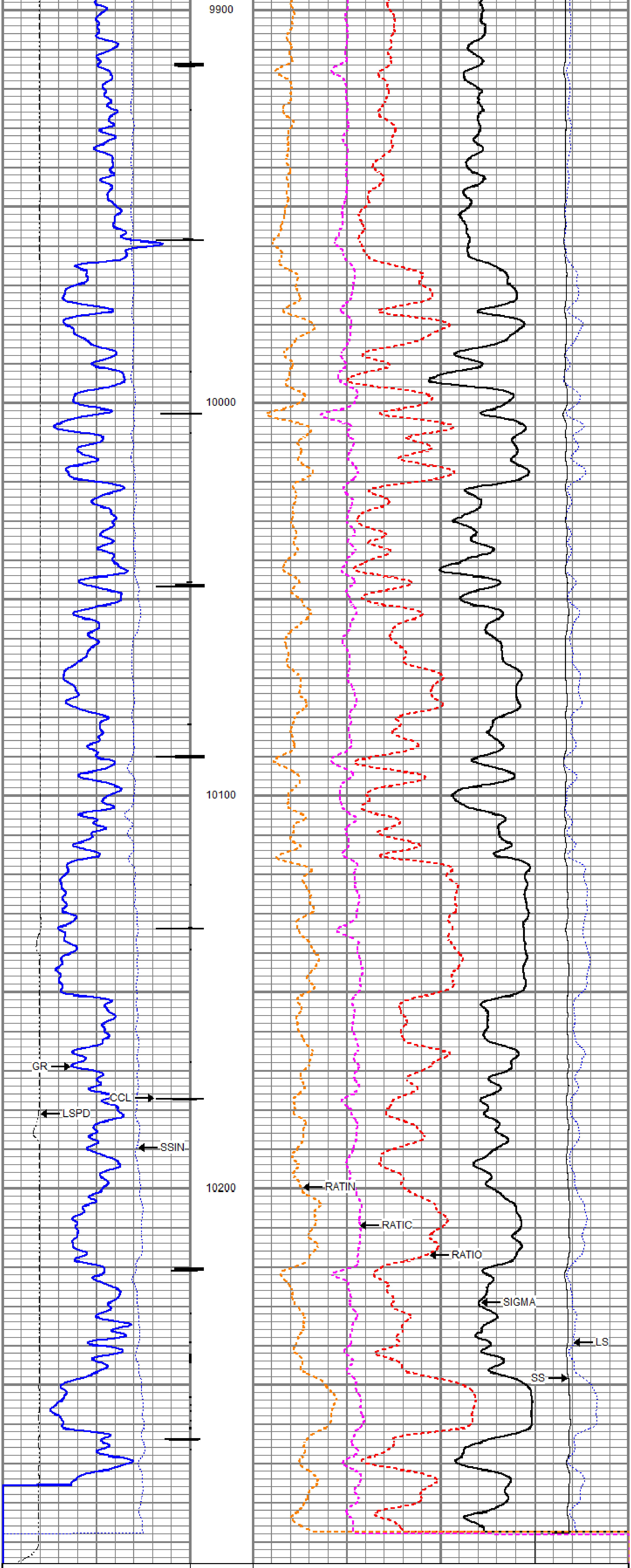
Main Pass

Database File	tep\chevron tr 512-24-597\pdn\tep_chevron tr 512-24-597_pdn_09-26-17.db
Dataset Pathname	chevron_tr_512-24-597_d2_main_shift
Presentation Format	ros_pdn
Dataset Creation	Thu Sep 28 17:48:25 2017
Charted by	Depth in Feet scaled 1:240

Left	Curve	Right
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
0	SS (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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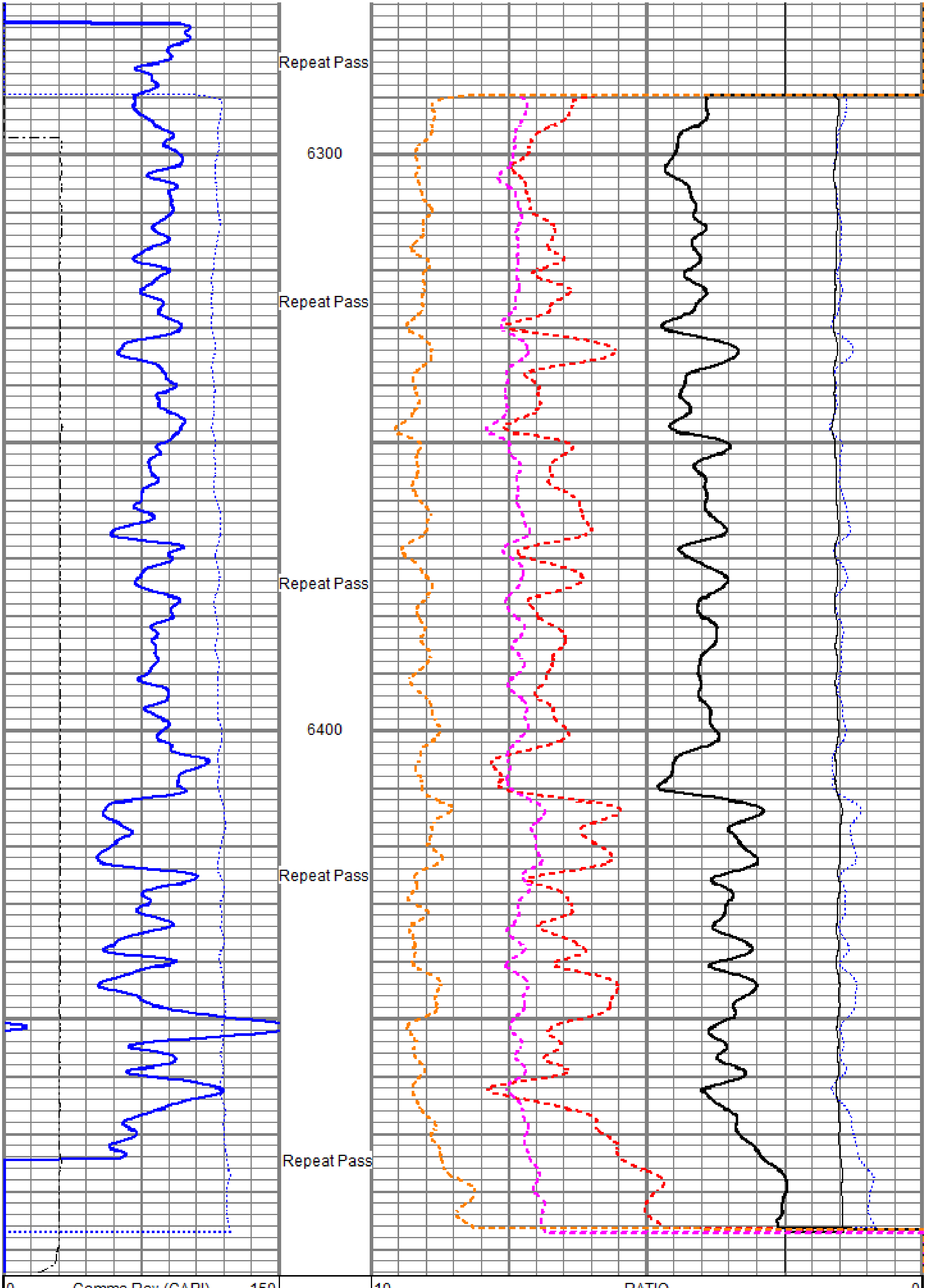
Repeat Pass

Database File	tep\chevron tr 512-24-597\pdn\tep_chevron tr 512-24-597_pdn_09-26-17.db
Dataset Pathname	repeat/chevron_tr_512-24-597_d1_repeat_shift
Presentation Format	ros_pdn
Dataset Creation	Fri Sep 29 02:29:23 2017
Charted by	Depth in Feet scaled 1:240

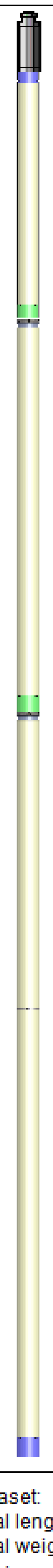
0 Gamma Ray (GAPI) 150
0 Line Speed (ft/min) 100
0 SSIN (cps) 500000

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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