RELIANCE
OILFIELD SERVICES

Pulsed Neutron
Gamma Ray
Casing Collar Log

Company	TEP Rocky Mountain LLC
Well	Chevron TR 322 -23-597
Field	Trail Ridge
County	Garfield
State	Colorado

Company TEP Rocky Mountain LLC
Well Chevron TR 322 -23-597
Field Trail Ridge
County Garfield State Colorado
Location: API # : 05-045-23470
2528' FNL & 1449' 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	19-SEPT-2017
Run Number	One
Depth Driller	10458 FT
Depth Logger	10407 FT
Bottom Logged Interval	10400 FT
Top Log Interval	6110 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	J.Donnelly
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	3014 FT
Intermediate #1	4 1/2	11.6	P-110	Surface	10407 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 10400 FT to 6110 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 322-23-597\pdn\tep_chevron tr 322-23-597_pdn_9-19-2017.db
Dataset Pathname	tep_chevron_tr_322-23-597_pdn_main_shif
Presentation Format	ros_pdn
Dataset Creation	Wed Sep 20 11:44:58 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

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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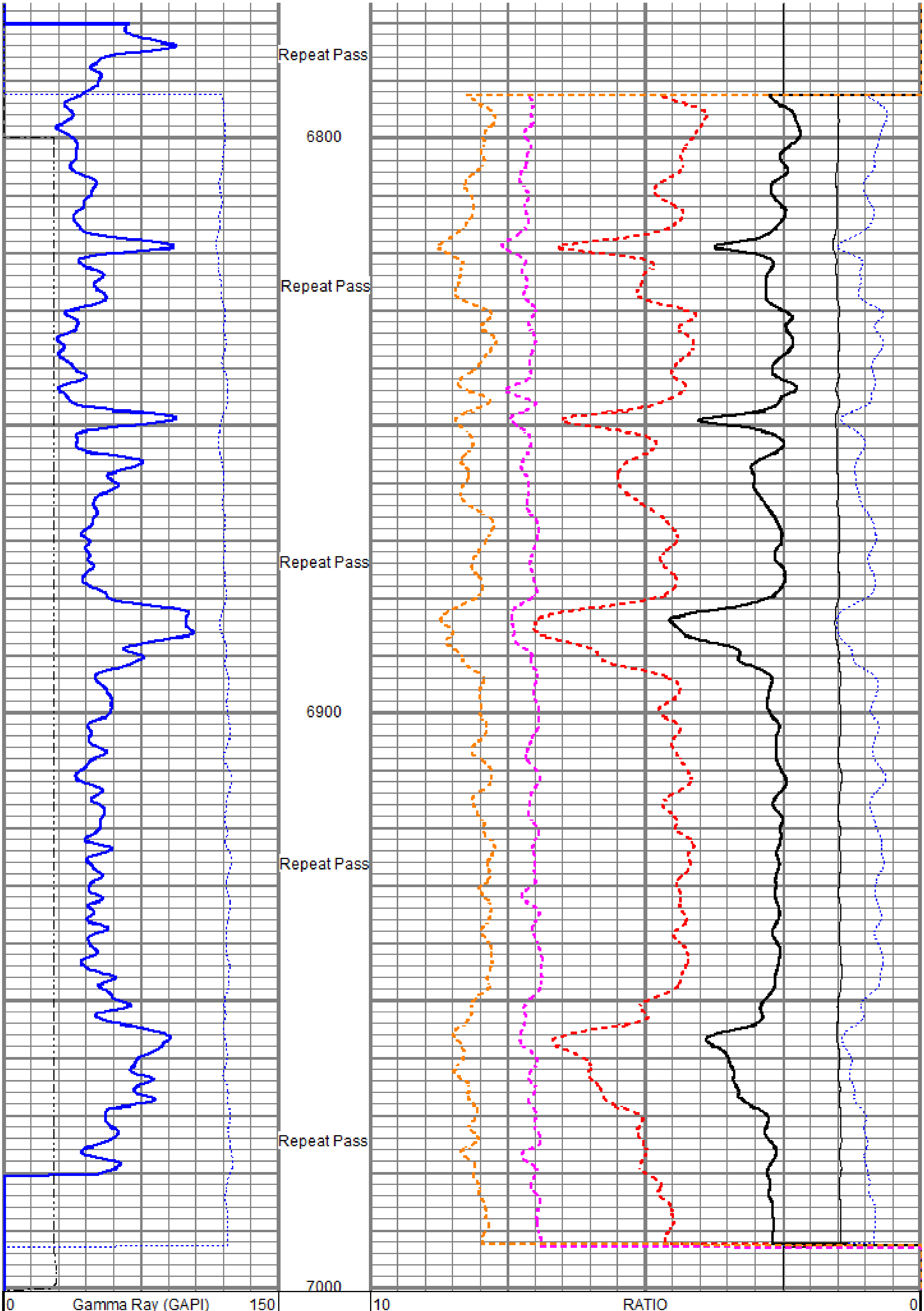
Repeat Pass

Database File	tep\chevron tr 322-23-597\pdn\tep_chevron tr 322-23-597_pdn_9-19-2017.db
Dataset Pathname	repeat/tep_chevron_tr_322-23-597_pdn_repeat_sh
Presentation Format	ros_pdn
Dataset Creation	Wed Sep 20 17:17:29 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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