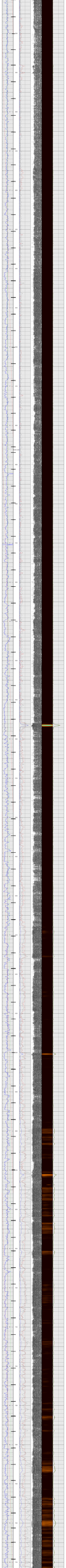
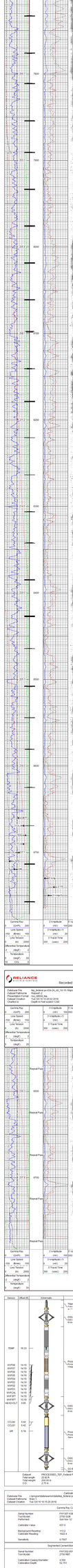
Gamma Ray (GR)
Caliper (CALI)
Bit Size (BS)
Deep Resistivity (RT)
Medium Resistivity (RM)
Shallow Resistivity (RS)
Density Correction (DRHO)
Photoelectric Factor (PEF)
Neutron Porosity (NPHI)
Density Porosity (RHOB)
Rate of Penetration (ROP)





RELIANCE WIRELINE SERVICES

Company: TEP Rocky Mountain LLC
Well: Federal PA 434-24
Field: Parachute
County: Garfield
State: Colorado

Repeat Pass

Recorded With 0 PSI Surface Induced Pressure

Database File: tep_federal-pa-434-24_16_10-15-16.dbm
Dataset Pathname: Repeat3
Presentation Format: ria_0805N_fed
Dataset Creation: Sat Dec 10 14:03:23 2016
Charted by: Depth in Feet scaled 1:240

Gamma Ray (GAPI) 200 | 2 in/100ft Line Speed (fpm) 1600 | 2 in/100ft Line Tension (lbf) 2000 | Differential Temperature (degF) 25 | 2 in/100ft x 1 Temperature (degF) 200 | 2 Traveltime (usec) 200 | SV Variable Density Log 1000 | Sector Map 1000 | Average 4 in/100ft Bit/Ann/Ann/Ann/Ann 1000

Repeat Pass

Repeat Pass

Repeat Pass

Repeat Pass

Repeat Pass

Repeat Pass

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			Titan CAN-4375-QA 1 Titan 1.375" Assembled Electric Cable Head 1 Partial Temperature Sub	1.00	1.44	3.00
			GSS Rev2 2750 54-SG 1 GSS 2.75" Pulse X-Ion Centralizer w/ SG Arms	2.55	2.75	32.00
TEMP	16.33		Probe Radio 2750 RMT-RVF1002-0015 1 Probe 2.75" Radial Transmit Burst Thrd Lock 1 Partial Temperature Sub	6.38	2.75	105.00
WVF50	14.10					
WVF40	14.10					
WVF30	14.10					
WVF54	14.10					
WVF53	14.10					
WVF52	14.10					
WVF51	14.10					
WVFCAL	14.10					
WVFBT	13.70					
WVFWT	12.70					
HEADVOLT	8.85					
			GSS RAC 2750 54-SG GSS 2.75" Pulse X-Ion Centralizer w/ SG Arms	2.55	2.75	32.00
CCLSO	6.42					
CCLRT	6.42					
GR	5.18		Probe GR-CCL-2750 GDB-PW1507-0051 1 Probe 2.75" Radial Transmit Burst Gamma Ray CCL Carrier Sub	4.51	2.75	55.00
			GSS RAC 2750 54-SG GSS 2.75" Pulse X-Ion Centralizer w/ SG Arms	2.55	2.75	32.00
			SG Wtr 54-SG SG Water Activated Battery Sub	0.25	1.44	1.00

Datum: Ground Level
Log Type: PRIMARY
Total weight: 250.00 lb
Tool: 54

Calibration Report

Database File: c:\program files\advanced\data_federal-pa-434-24_16_10-15-16\processed_tep_federal-pa-434-24_16_10-15-16.dbm
Dataset Pathname: Main 1
Dataset Creation: Tue Oct 18 10:15:29 2016

Gamma Ray Calibration Report

Serial Number	PX1537-838
Tool Model	GPX-3.375-54
Calibrated	12 12 14 12:2017
Calibration Value	637.5 GAPI
Background Reading	113.2 GR
Calibration Reading	1022.4 GR
Sensitivity	0.7007 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number	PX1550-201
Tool Model	2750 RMT
Calibration Coeing Diameter	4.550 in
Calibration Depth	12.751 ft

Master Calibration, performed (Centred)

	Raw (-)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
T	-0.004	0.945	0.000	81.195	124.788	1.270
CAL	-0.005	0.763				
R	-0.007	0.634	0.000	81.195	120.716	4.995
SUM						
R1	-0.007	0.716	0.000	100.000	137.264	4.995
R2	-0.004	0.585	0.000	100.000	162.921	0.630
R3	-0.007	0.717	0.000	100.000	137.088	4.912
R4	-0.009	0.760	0.000	100.000	131.585	1.182
R5	-0.007	0.717	0.000	100.000	138.117	4.912
R6	-0.004	0.585	0.000	100.000	162.921	0.630
R7	-0.009	0.757	0.000	100.000	148.000	1.071

Internal Reference Calibration, performed (Not Performed)

	Raw (-)		Calibrated (-)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.005	0.791	1.000	0.000

Air Zero Calibration, performed Sun Oct 14 09:27:45 2018

	Raw (-)		Calibrated (-)		Results	
	Zero		Zero		Offset	
T	-0.005		0.000		0.000	
CAL	0.000		0.000		0.000	
R	-0.007		0.000		0.000	
SUM						
R1	-0.007		0.000		0.000	
R2	-0.004		0.000		0.000	
R3	-0.007		0.000		0.000	
R4	-0.009		0.000		0.000	
R5	-0.007		0.000		0.000	
R6	-0.004		0.000		0.000	
R7	-0.009		0.000		0.000	

Temperature Calibration Report

Serial Number	PX1550-201
Tool Model	2750 RMT
Performed	Sun Nov 13 14:34:28 2017
	Reference / Reading
Low Reference	100.00 degF / 107.47 degF
High Reference	200.00 degF / 205.05 degF
Gain	0.9
Offset	4.42
Delta Spacing	1

RELIANCE WIRELINE SERVICES