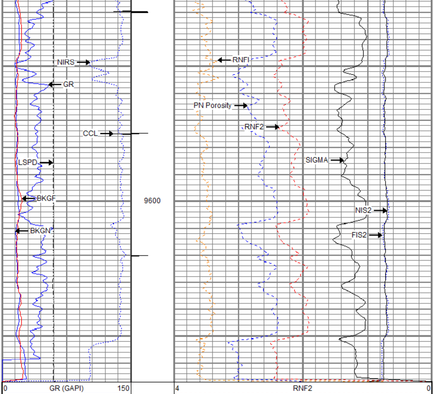
Gamma Ray (GR) (API)
Caliper (CALI) (in)
Bit Size (BS) (in)
Deep Resistivity (RDEP) (ohm.m)
Medium Resistivity (RMED) (ohm.m)
Shallow Resistivity (RSHA) (ohm.m)
Density Correction (DRHO) (g/cm3)
Neutron Porosity (NPHI) (dec)
Photoelectric Factor (PEF) (b/e)
Bulk Density (RHOB) (g/cm3)
Delta-T Compressional (DTC) (us/ft)
Delta-T Shear (DTS) (us/ft)
Stoneley Slowness (DTST) (us/ft)



0	GR (GAPI)	150	
	PN Casing Collar Locator		
-100	Line Speed (ft/min)	100	
0	NIRS (cps)	400000	
0	BKGN (cps)	4000	
0	BKGF (cps)	2000	

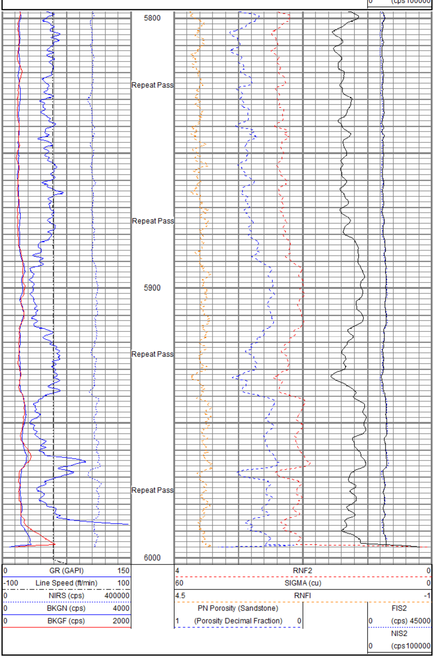
4	RNF2	0	
60	SIGMA (cu)	0	
4.5	RNFI	-1	
1	PN Porosity (Sandstone)	0	
		0	FIS2 (cps) 45000
			NIS2 (cps 100000

Repeat Pass

Database File	e:\data\tep\federal pa 533-13\pn\tep_federal pa 533-13_pn_07-22-20.db
Dataset Pathname	repeat.2
Presentation Format	ros_pdn_hunter
Dataset Creation	Thu Jul 23 10:29:04 2020
Charted by	Depth in Feet scaled 1:240

0	GR (GAPI)	150	
-100	Line Speed (ft/min)	100	
0	NIRS (cps)	400000	
0	BKGN (cps)	4000	
0	BKGF (cps)	2000	

4	RNF2	0	
60	SIGMA (cu)	0	
4.5	RNFI	-1	
1	PN Porosity (Sandstone)	0	
1	(Porosity Decimal Fraction)	0	
		0	FIS2 (cps) 45000
			NIS2 (cps 100000



0	GR (GAPI)	150	
-100	Line Speed (ft/min)	100	
0	NIRS (cps)	400000	
0	BKGN (cps)	4000	
0	BKGF (cps)	2000	

4	RNF2	0	
60	SIGMA (cu)	0	
4.5	RNFI	-1	
1	PN Porosity (Sandstone)	0	
1	(Porosity Decimal Fraction)	0	
		0	FIS2 (cps) 45000
			NIS2 (cps 100000

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			Titan CHD-16875 GO Titan 1-1/16" Assembled Electric Cable Head w/ 1" Fishing Neck	1.03	1.69	5.40
			HWS_TCU-001 (000279) HWS Telemetry Control Unit	1.52	1.69	7.80
TCUTEMP	14.69					
TCUVOLT	14.69					
GCL_CCL	13.97					
			HWS_GCL-001 (001475) HWS Gamma Ray Collar Locator (1.6875")	2.69	1.69	13.40
GCL_GR	12.50					
Long	6.25		HWS_RAS-RAS002 (003040) Hunter Well Science Pulsed Neutron Tool	11.75	1.69	55.82
Far	6.25					
Near	6.25					
Anci	6.25					
LOCTIM	0.00					
UTCTIM	0.00		HWS_TBN-001 (001724) HWS Terminator Bull Nose (1.6875")	0.25	1.69	0.99

Dataset	tep_federal pa 533-13_pn_07-22-20.db: field\well\run 1\main.2
Total length:	17.24 ft
Total weight:	83.41 lb
O.D.:	1.69 in

Calibration Report

Database File	e:\data\tep\federal pa 533-13\pn\tep_federal pa 533-13_pn_07-22-20.db
Dataset Pathname	main.2
Dataset Creation	Thu Jul 23 10:27:43 2020

RAS Calibration Report

Calibration Date: Thu Jul 11 14:55 2020 Meas #: 003041

Water Tank

Description	Curve	Standard	Mean	Dev
Sigma Near	SIGN	23.1	24.1	0.23
Sigma Far	SIGF	22.8	23.5	0.27
Ratio Near-Long Capture	RNL2	5.79	6.45	0.04
Ratio Near-Long Burst	RNLB	6.49	6.87	0.04
Ratio Near-Far Capture	RNF2	1.85	2.01	0.01
Ratio Near-Far Burst	RNFB	2.03	2.16	0.01
Spectral Hydrogen Index	HIS2	12.84	12.61	0.16
Carbon-Oxygen Ratio	CORS	1.34	1.30	0.05
Ratio Burst-Capture Near	RNBC	1.46	1.73	0.01
Ratio Burst-Capture Far	RFBC	1.50	1.67	0.01

Hydrocarbon Tank

Description	Curve	Standard	Mean	Dev
Sigma Near	SIGN	25.7	26.8	0.25
Sigma Far	SIGF	25.1	25.5	0.45
Ratio Near-Long Capture	RNL2	1.78	2.98	0.02
Ratio Near-Long Burst	RNLB	2.57	4.38	0.02
Ratio Near-Far Capture	RNF2	0.98	1.30	0.01
Ratio Near-Far Burst	RNFB	1.30	1.64	0.01
Spectral Hydrogen Index	HIS2	16.68	17.41	0.28
Carbon-Oxygen Ratio	CORS	1.51	1.54	0.04
Ratio Burst-Capture Near	RNBC	2.23	2.46	0.02
Ratio Burst-Capture Far	RFBC	2.09	2.18	0.02

Gamma Ray Calibration Report

Serial Number:	001475	
Tool Model:	001	
Performed:	Fri Oct 19 14:55:00 2018	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	
Calibrator Reading:	1.0	
Sensitivity:	1.0000	GAPI/

Company	TEP Rocky Mountain LLC
Well	Federal PA 533-13
Field	Parachute
County	Garfield
State	Colorado