Comment

Log Run No and Date: Log Run No: 1, Date: 2-Jul-2020
Depth reference: Depths are referenced to Driller's Depth
Casing Fluid Type: Logged with Fluid in the Hole: Yes

Thank you for choosing Records Online Services, LLC!

Main Pass

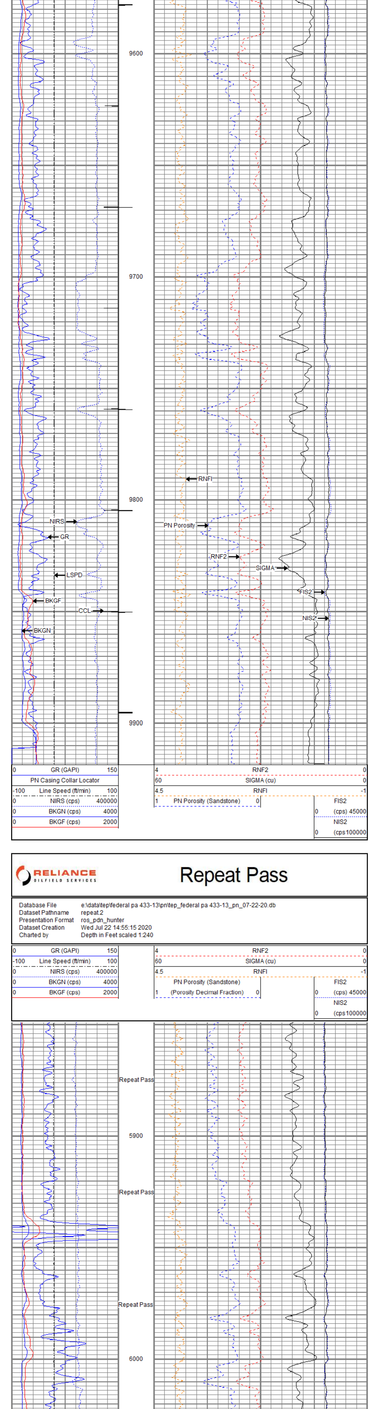
Company:	Cabot Oil & Gas Corporation
Well:	Cabot Oil & Gas Corporation Pad ID: Cabot Oil & Gas Corporation Unit
Field:	Cabot Oil & Gas Corporation
County/State:	Susquehanna, Pennsylvania
API / UWI:	37-115-21284-00-00

Logging Services	
Log Interval	7,000 ft to 1,000 ft
Scale	5 in/100 ft
Log Run No	1
Max Recorded Temp	0 degF
Max Surface Voltage	0 V

Tool Strings			
String	Tool	Length	Weight
1	Gamma Ray	0 ft	0 lbs
1	Total	0 ft	0 lbs

Calibrations	
Pre-Survey Readings	Yes

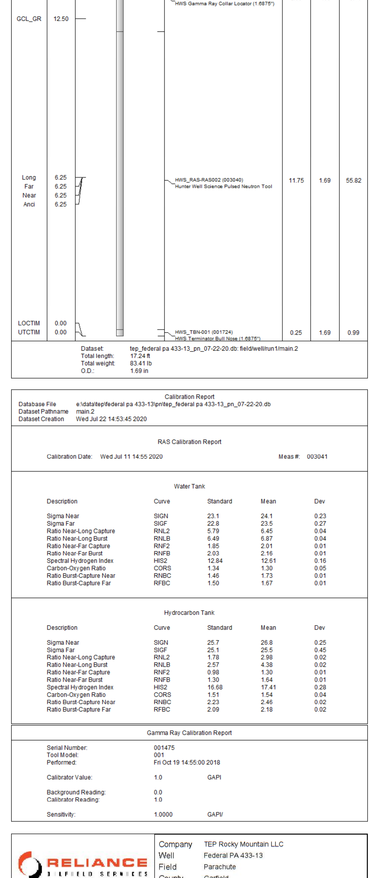
Remarks
Run 1
Main Pass
Gamma Ray



RELIANCE WIRELINE SERVICES

Repeat Pass

Database File e:\data\tep\federal pa 433-13\pn\tep_federal pa 433-13_pn_07-22-20.db
Dataset Pathname repeat.2
Presentation Format rss_pdn_hunter
Dataset Creation Wed Jul 22 14:55:15 2020
Charted by Depth in Feet scaled 1:240



Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			Titan CHD-15875 QD Titan 1-11/16" 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 (1.687")	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_TBH-001 (001724) HWS Terminator Bull Nose (1.687")	0.25	1.69	0.99

Dataset: tep_federal pa 433-13_pn_07-22-20.db: field\wellrun1\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 433-13\pn\tep_federal pa 433-13_pn_07-22-20.db
Dataset Pathname main.2
Dataset Creation Wed Jul 22 14:53:45 2020

RAS Calibration Report

Calibration Date: Wed 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

RELIANCE WIRELINE SERVICES

Company	TEP Rocky Mountain LLC
Well	Federal PA 433-13
Field	Parachute
County	Garfield
State	Colorado