RELIANCE OILFIELD SERVICES

Temperature (Quick Look)
Gamma Ray
Casing Collar Log

Company: TEP Rocky Mountain LLC
Well: Federal RU 24-17
Field: Rulison
County: Garfield
State: Colorado

Location: SEC. 17 TWP. 7S ROE. 93W
API #: 05-045-23749
Elevation: K.B. 8338.6 G.L. 8302.6

Permanent Datum: Kelly Bushing
Log Measured From: Kelly Bushing
Drilling Measured From: Kelly Bushing

Other Services: ---

	Size	Top	Bottom
Surface String	9 5/8	Surface	1037 FT
Intermediate #1	4 1/2	Surface	10289 FT
Intermediate #2			
Liner			

Date: 03-JUN-2018
Run Number: 1
Depth Driller: 10289 FT
Schlumberger Depth: 10289 FT
Bottom Logged Interval: 10289 FT
Top Log Interval: Surface
Casing Fluid Type: Fresh Water
Salinity: 0 PPM
Density: 8.33 LB/G
Max Recorded Temp: 239 DEGF
Estimated Surface Temp: 80 DEGF
Equipment Number: 24 FT
Location: Garfield, CO
Recorded By: Gabe Fisher
Witnessed By: Cody Hendricks

	Weight (lb/ft)	Grade	Top	Bottom
Surface String	36	K-55	Surface	1037 FT
Intermediate #1	11.6	P-110	Surface	10289 FT
Intermediate #2				
Liner				

Tubing Record: Weight, Grade, Top, Bottom

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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 Kelly Bushing at 24 FT
Marker Joint logged from 6611 FT to 6632 FT
Log ran from 10289 FT to Surface
Log ran with 0 PSI Surface Induced Pressure

Thank you for choosing Reliance Oilfield Services, LLC!!

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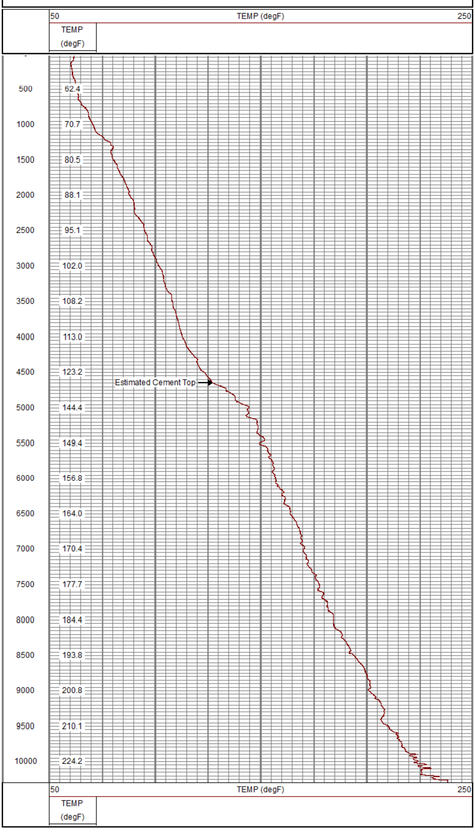
Main Pass (Quick Look)

Recorded with 0 PSI Surface Induced Pressure

Database File: tep_federal ru 24-17_temp_06-03-18\processed_tep_federal ru 24-17_temp_06-03-18.db
Dataset Pathname: .ain.1
Presentation Format: ros_temp_ql_tep
Dataset Creation: Mon Jun 04 02:06:06 2018
Charted by: Depth in Feet scaled 1:10000



Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			Titan CHD-14375 GO Titan 1-7/16" Assembled Electric Cable Head w/ 1" Fishing Neck	1.03	1.44	3.60
			UW AGS-001 (211461) Sondex Adapter - GO Box to Sondex Pin	0.21	1.69	1.00
			UW XTU-002 (10012277) Crossover Ultrawire Toolbus to Ultralink	1.58	1.69	6.50
GR	3.37		UW PGR-020 (10019072) Production Gamma Ray	1.92	1.69	9.50
CCL	1.77		UW CCL-028 (10024821) 3-1/8" Ultrawire Casing Collar Locator	1.61	3.13	36.00
TEMP	0.37		UW PRT-016 (10025100) Platinum Resistance Thermometer	1.04	1.69	5.20
TSTAMP	0.00		UW BUL-006 (10019616) Sondex Ultrawire Bullnose Terminator Sub	0.22	1.69	1.20

Dataset: PROCESSED_TEP_Federal RU 24-17_TEMP_06-03-18.db: field\well\run1/.ain
Total length: 7.62 ft
Total weight: 63.00 lb
O.D.: 3.13 in

Calibration Report

Database File: C:\Program Data\Warrior\Data\TEP_Federal RU 24-17_TEMP_06-03-18\PROCESSED_TEP_Federal RU 24-
Dataset Pathname: .ain
Dataset Creation: Mon Jun 04 00:46:24 2018

Temperature Calibration Report

Serial Number: 10025100
Tool Model: 016
Performed: Sun Nov 12 13:30:03 2017

Point #	Reading		Reference	
1	13249.00	cps	68.00	degF
2	18454.00	cps	104.00	degF
3	29735.00	cps	176.00	degF
4	41457.00	cps	248.00	degF
5	52851.00	cps	320.00	degF
6	59128.00	cps	356.00	degF
7		cps		degF
8		cps		degF
9		cps		degF
10		cps		degF

Gamma Ray Calibration Report

Serial Number: 10019072
Tool Model: 020
Performed: Sun Nov 12 05:37:04 2017

Calibrator Value: 637.0 GAPI

Background Reading: 78.8 cps
Calibrator Reading: 1069.9 cps

Sensitivity: 0.6427 GAPI/cps

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