

RELIANCE

OILFIELD SERVICES

Temperature

Gamma Ray

Casing Collar Log

Company TEP Rocky Mountain LLC

Well Youberg SR 311-12

Field Rulison

County Garfield

State Colorado

Location: 1897 FNL & 2123 FEL SWNE

SEC 12 TWP 7S RGE 94W

Permanent Datum Ground Level Elevation 7254'

Log Measured From Kelly Bushing 24 FT

Drilling Measured From Kelly Bushing

Other Services

Date 20-JUL-2017

Run Number One

Depth Driller 10269 FT

Depth Logger 10179 FT

Bottom Logged Interval 10179 FT

Top Log Interval Surface

Open Hole Size 8.750"

Type Fluid Fresh Water

Density / Viscosity 8.34 lb/gal

Max. Recorded Temp. 225°F

Estimated Cement Top 4850 FT

Time Well Ready ROA 01:00

Time Logger on Bottom 01:00

Equipment Number HD-264

Location Grand Junction

Recorded By A. Ellsworth

Witnessed By

Borehole Record

Run Number Bit From To Size Weight From To

Casing Record

Size (in) 32.3

Weight (lbs/ft) 9.58

Grade H-40

Top 1282 FT

Bottom 10210 FT

Surface Casing 4.172

Intermediate #1 P-110

Surface 11.6

Intermediate #2

Liner

<<< Fold Here >>>

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 6843 FT to 6863 FT

Estimated Top of Cement is 4850 FT

Thank you for choosing Reliance Oilfield Services, LLC!!

RELIANCE

OILFIELD SERVICES

Main Pass (Quick Look)

Database File tep_youberg sr 311-12_temp_07-20-2017\processed_tep_youberg sr 311-12_temp_07-20-17.db

Dataset Pathname Quick Look

Presentation Format ros_temp_ql_tep

Dataset Creation Thu Jul 20 03:52:41 2017

Charted by Depth in Feet scaled 1:10000

50

TEMP (degF)

250

TEMP (degF)

500

1000

1500

2000

2500

3000

3500

4000

4500

5000

5500

6000

6500

7000

7500

8000

8500

9000

9500

10000

76.8

83.0

87.2

93.5

97.6

102.4

105.5

110.8

115.2

128.5

137.1

144.4

153.4

158.8

167.2

175.9

183.5

191.8

201.3

220.0


Estimated Cement Top

50

TEMP (degF)

250

TEMP (degF)

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)	
GR	5.92		Titan_Electric_Cable_Heads-Titan_1-11	11.03	1.69	5.40	
			Electric Cable Head with 1" Fishing Neck				
			UW_AGS-UW_AGS_001 (219135)	0.21	1.69	1.00	
			Sondex Adapter - GO Box to Sondex Pin				
			UW_XTU-UW_XTU_002 (211461)	1.58	1.69	6.50	
			Crossover Ultrawire Toolbus to Ultralink				
CCL	1.77		DSS_RAC-RAC_5-Arm	2.55	2.75	32.00	
			5 Arm 2-3/4" Roller Centralizer				
			UW_PGR-UW_PGR_020 (10013902)	1.92	1.69	9.50	
TEMP	0.37		DSS_RAC-RAC_5-Arm	2.55	2.75	32.00	
			5 Arm 2-3/4" Roller Centralizer				
			UW_CCL-UW_CCL_028 (10026421)	1.61	3.13	36.00	
			3-1/8" Ultrawire Casing Collar Locator				
HVOLT	0.00		UW_PRT-PRT_016 (10025093)	1.04	1.69	5.20	
ITEMP	0.00		Platinum Resistance Thermometer				
TSTAMP	0.00		UW_BUL-UW_BUL_006 (10019730)	0.22	1.69	1.20	
Sondex Ultrawire Bullnose Terminator							
Dataset: PROCESSED_TEP_Youberg SR 311-12_TEMP_07-20-17.db: field/well/run1/pass3							
Total length: 12.71 ft							
Total weight: 128.80 lb							
O.D.: 3.13 in							

Calibration Report						
Database File	C:\ProgramData\WarriorData\TEP_Youberg SR 311-12_TEMP_07-20-2017\PROCESSED_TEP_Youberg SR 311-12_TEMP_07-20-17.db: field/well/run1/pass3					
Dataset Pathname	pass3					
Dataset Creation	Thu Jul 20 01:58:28 2017					
Temperature Calibration Report						
Serial Number:			10025093			
Tool Model:			PRT_016			
Performed:			Sun Oct 11 12:31:14 2015			
Point #	Reading		Reference			
1	13006.00	cps	68.00	degF		
2	18181.00	cps	104.00	degF		
3	29634.00	cps	176.00	degF		
4	41077.00	cps	248.00	degF		
5	52560.00	cps	320.00	degF		
6	58409.00	cps	356.00	degF		
7		cps		degF		
8		cps		degF		
9		cps		degF		
10		cps		degF		
Gamma Ray Calibration Report						
Serial Number:			10013902			
Tool Model:			UW_PGR_020			
Performed:			(Not Performed)			
Calibrator Value:	1.0		GAPI			
Background Reading:	0.0	cps				
Calibrator Reading:	1.0	cps				
Sensitivity:	1.0000		GAPI/cps			

RELIANCE

OILFIELD SERVICES

Company TEP Rocky Mountain LLC

Well Youberg SR 311-12

Field Rulison

County Garfield

State Colorado