Radial Cement Bond
Gamma Ray
Casing Collar Log

THE WIRELINE GROUP

Company	TEP Rocky Mountain LLC
Well	Leverich SR 421-24
Field	Rulison
County	Garfield
State	Colorado

Company TEP Rocky Mountain LLC
Well Leverich SR 421-24
Field Rulison
County Garfield State Colorado

Location: API #: 05-045-24565
SEC 13 TWP 7S RGE 94W

Other Services

Permanent Datum	Ground Level	Elevation 8007'	Elevation
Log Measured From	Kelly Bushing		K.B. 8037'
Drilling Measured From	Kelly Bushing		D.F. 8037'
			G.L. 8007'

Date	23-AUG-2023
Run Number	One
Depth Driller	10868'
Depth Logger	10800'
Bottom Logged Interval	10792'
Top Log Interval	Surface
Open Hole Size	8.75"
Type Fluid	Water
Density / Viscosity	8.34 Lb/Gal
Max. Recorded Temp.	263°F
Estimated Cement Top	See log
Time Well Ready	ROA
Time Logger on Bottom	11:15
Equipment Number	8102
Location	Grand Junction
Recorded By	P. Edwards
Witnessed By	C. Borgstede

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	9.625"	36	Surface	1177'
Prot. String				
Production String	4.5"	11.6	Surface	10868
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 30'
Marker joint logged @ 6444' - 6454'

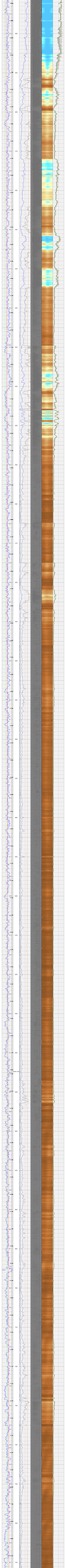
Thank you for choosing The Wireline Group!

THE WIRELINE GROUP

Main Pass 5" = 100'

Database File	tep_sr_421-24_rcbl\tep_sr_421-24_rcbl.db
Dataset Pathname	main
Presentation Format	twgrcbl
Dataset Creation	Wed Aug 23 11:10:25 2023
Charted by	Depth in Feet scaled 1:240

Gamma Ray	3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
0 (GAPI) 150	0 (mV) 100	200 (usec) 1200		0 120
Line Tension	3' Amplitude x 5			Mimimum Amplitude
0 (lb) 4000	0 (mV) 20			0 120
-9 CCL$1 1	3' Travel Time			Maximum Amplitude
0 Temp (degF) 300	650 (usec) 150			0 120



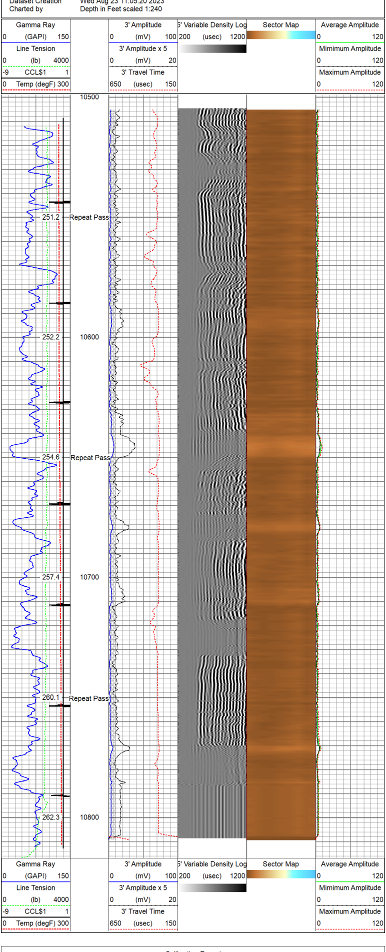
Gamma Ray	3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
0 (GAPI) 150	0 (mV) 100	200 (usec) 1200		0 120
Line Tension	3' Amplitude x 5			Mimimum Amplitude
0 (lb) 4000	0 (mV) 20			0 120
-9 CCL$1 1	3' Travel Time			Maximum Amplitude
0 Temp (degF) 300	650 (usec) 150			0 120

TWG THE WIRELINE GROUP

Repeat Pass 5" = 100'

Database File: tep_sr_421-24_rcbl\tep_sr_421-24_rcbl.db
Dataset Pathname: repeat
Presentation Format: twgrcbl
Dataset Creation: Wed Aug 23 11:05:20 2023
Charted by: Depth in Feet scaled 1:240

Gamma Ray	3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
0 (GAPI) 150	0 (mV) 100	200 (usec) 1200		0 120
Line Tension	3' Amplitude x 5			Mimimum Amplitude
0 (lb) 4000	0 (mV) 20			0 120
-9 CCL$1 1	3' Travel Time			Maximum Amplitude
0 Temp (degF) 300	650 (usec) 150			0 120



Gamma Ray	3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
0 (GAPI) 150	0 (mV) 100	200 (usec) 1200		0 120
Line Tension	3' Amplitude x 5			Mimimum Amplitude
0 (lb) 4000	0 (mV) 20			0 120
-9 CCL$1 1	3' Travel Time			Maximum Amplitude
0 Temp (degF) 300	650 (usec) 150			0 120

Calibration Report

Database File: c:\programdata\warrior\data\tep_sr_421-24_rcbl\tep_sr_421-24_rcbl.db
Dataset Pathname: main
Dataset Creation: Wed Aug 23 11:10:25 2023

Gamma Ray Calibration Report

Serial Number: FW1311-93
Tool Model: 50-GCT275-0000
Performed: Wed Aug 9 11:12:55 2023

Calibrator Value: 145.2 GAPI

Background Reading: 73.8 cps
Calibrator Reading: 294.4 cps

Sensitivity: 0.6579 GAPI/cps

Inclinometer Calibration Report

Performed: Thu Jan 26 15:51:24 2023

	Low Read.	High Read.	Low Ref.	High Ref.	
X Accelerometer	-941.00	997.00	-1.00	1.00	gee
Y Accelerometer	-924.00	915.00	-1.00	1.00	gee
Z Accelerometer	15.07	-898.87	0.00	1.00	gee

Segmented Cement Bond Log Calibration Report

Serial Number: FW1304-33
Tool Model: Probe275acc

Calibration Casing Diameter: 4.500 in
Calibration Depth: 1656.400 ft

Master Calibration, performed Wed Aug 23 08:27:36 2023:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.000	0.779	0.000	81.196	104.218	0.000
CAL	0.000	0.805				
5'	0.000	0.652	0.000	81.196	124.545	0.000
SUM						
S1	0.000	0.721	0.000	100.000	138.763	0.000
S2	0.000	0.846	0.000	100.000	118.236	0.000
S3	0.000	0.939	0.000	100.000	106.444	0.000
S4	0.000	0.961	0.000	100.000	104.109	0.000
S5	0.000	0.868	0.000	100.000	115.270	0.000
S6	0.000	0.762	0.000	100.000	131.166	0.000
S7	0.000	0.731	0.000	100.000	136.832	0.000
S8	0.000	0.727	0.000	100.000	137.500	0.000

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.000	0.805	1.000	0.000

Air Zero Calibration, performed Wed Aug 23 08:20:57 2023:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.000	0.000	0.000
5'	0.000	0.000	0.000
SUM			
S1	0.000	0.000	0.000
S2	0.000	0.000	0.000
S3	0.000	0.000	0.000
S4	0.000	0.000	0.000
S5	0.000	0.000	0.000
S6	0.000	0.000	0.000
S7	0.000	0.000	0.000
S8	0.000	0.000	0.000

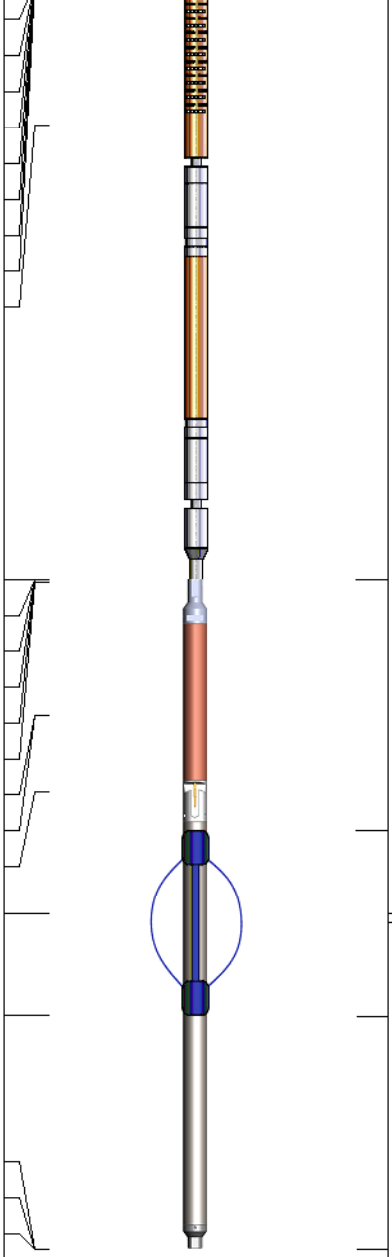
Inclinometer Calibration Report

Performed: (Not Performed)

	Low Read.	High Read.	Low Ref.	High Ref.	
X Accelerometer	0.00	1.00	0.00	1.00	gee
Y Accelerometer	0.00	1.00	0.00	1.00	gee
Z Accelerometer	0.00	1.00	0.00	1.00	gee

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GCT_FMWR	13.52					
mSec_Count	13.52					
RBT_Status	13.52					
Error_Ct	13.52					
			SO BS CENT-2750-4500 Slip Over 2-3/4" I.D. for 4-1/2" O.D. Casing Bow Spring Centralizer	1.33	3.25	10.00
WVFS8	9.02		RBT8acc-Probe275acc (FW1304-33) 2.75" Radial Corrosion with accelerometer	8.75	2.75	110.00

WVFS7	9.02				
WVFS6	9.02				
WVFS5	9.02				
WVFS4	9.02				
WVFS3	9.02				
WVFS2	9.02				
WVFS1	9.02				
WVF3FT	9.02				
WVF5FT	8.02				
RBT_ACCZ	4.77				
RBT_ACCY	4.77				
RBT_ACCX	4.77				
WVFSYNC	4.77				
WVFCAL	4.77				
GCT_HV	4.76				
CCL$2	3.81				
CCL$1	3.81				
GCT_Temp	3.26				
GR	2.39	GCT_acc-50-GCT275-0000 (FW1311-93) Probe 2.75" Gamma Ray - CCL w/Temp (Single Pin)	4.77	2.75	55.00
GCT_IntTemp	1.67	SO BS CENT-2750-4500 Slip Over 2-3/4" I.D. for 4-1/2" O.D. Casing Bow Spring Centralizer	1.33	3.25	10.00
GCT_ACCZ	0.00				
GCT_ACCY	0.00				
GCT_ACCX	0.00				



Dataset: tep_sr_421-24_rcbl.db: field/well/run1/main
Total length: 13.52 ft
Total weight: 185.00 lb
O.D.: 3.25 in

Company	TEP Rocky Mountain LLC
Well	Leverich SR 421-24
Field	Rulison
County	Garfield
State	Colorado

THE WIRELINE GROUP

Radial Cement Bond
Gamma Ray
Casing Collar Log