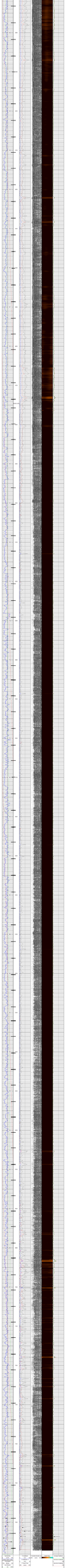
Mud Log Report
Drilling Time and Gas Ratio Log
Lithology
Gas Ratio
Drilling Time
Total Gas
Chromatograph
Lithology Description
Comments
Depth
Gas Units
Minutes per Foot
Gas Ratio



Differential Temperature
-2 (degF) 2
Temperature
0 (degF) 20

Repeat Pass

RELIANCE DIFIELD SERVICES

Recorded With 0 PSI Surface Induced Pressure

Database File	tep\tep_chevron gm 32-19_rbl_02-02-21\tep_chevron gm 32-19_rbl_02-02-21.db
Dataset Pathname	repeat:2
Presentation Format	ros_radii_tep
Dataset Creation	Wed Feb 03 14:08:32 2021
Charted by	Depth in Feet scaled 1:240

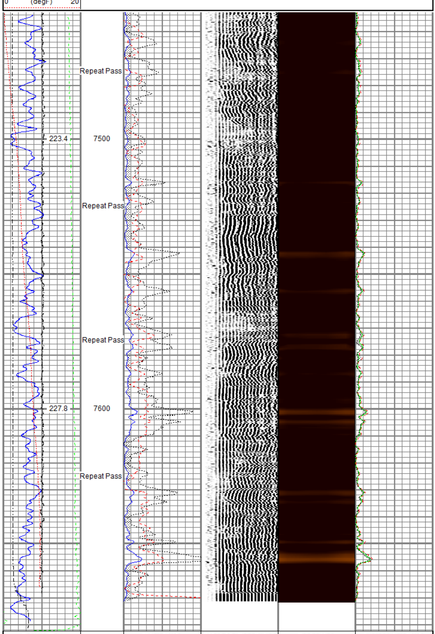
Gamma Ray 0 (GAPI) 200
Line Speed -150 (ft/min) 150
Line Tension 0 (lb) 2000
Differential Temperature -2 (degF) 2
Temperature 0 (degF) 20

3' Amplitude 0 (mV) 100
3' Amplitude x 5 0 (mV) 20
3' Travel Time 300 (usec) 200

5' Variable Density Log 200 (usec) 1200

Sector Map

Average Amplitude 0 150
Minimum Amplitude 0 150
Maximum Amplitude 0 150



Gamma Ray 0 (GAPI) 200
Line Speed -150 (ft/min) 150
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Differential Temperature -2 (degF) 2
Temperature 0 (degF) 20

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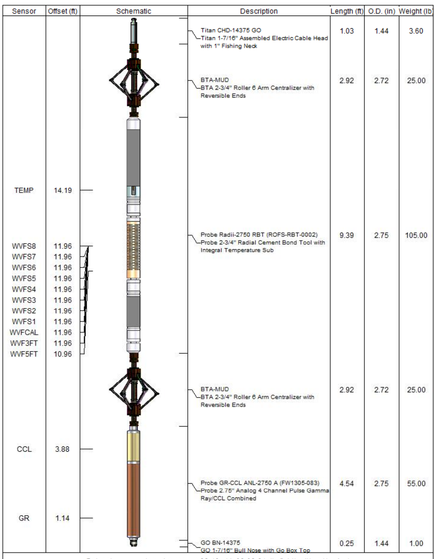
5' Variable Density Log 200 (usec) 1200

Sector Map

Average Amplitude 0 150
Minimum Amplitude 0 150
Maximum Amplitude 0 150



Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			Titan CHD-14375 GO Titan 1-7/16" Assembled Electric Cable Head with 1° Fishing Neck	1.03	1.44	3.60
			BTA-MUD BTA 2-3/4" Roller 6 Arm Centralizer with Reversible Ends	2.92	2.72	25.00
TEMP	14.19					
WVFS8	11.96		Probe Radii-2750 RBT (ROFS-RBT-0002) Probe 2-3/4" Radial Cement Bond Tool with Integral Temperature Sub	9.39	2.75	105.00
WVFS7	11.96					
WVFS6	11.96					
WVFS5	11.96					
WVFS4	11.96					
WVFS3	11.96					
WVFS2	11.96					
WVFS1	11.96					
WVFCAL	11.96					
WVF3FT	11.96					
WVF5FT	10.96					
			BTA-MUD BTA 2-3/4" Roller 6 Arm Centralizer with Reversible Ends	2.92	2.72	25.00
CCL	3.88					
			Probe GR-CCL ANL-2750 A (FW1305-083) Probe 2.75" Analog 4 Channel Pulse Gamma Ray/CCL Combined	4.54	2.75	55.00
GR	1.14					
			GO BN-14375 GO 1-7/16" Bull Nose with Go Box Top	0.25	1.44	1.00

Dataset: tep_chevron gm 32-19_rbl_02-02-21.db: field/well/run1/main.4
Total length: 21.05 ft
Total weight: 214.50 lb
O.D.: 2.75 in

Calibration Report

Database File	c:\programdata\warrior\data\tep\tep_chevron gm 32-19_rbl_02-02-21\tep_chevron gm 32-19_rbl_02-02-21.d
Dataset Pathname	main.4
Dataset Creation	Wed Feb 03 14:02:48 2021

Gamma Ray Calibration Report

Serial Number:	FW1305-083	
Tool Model:	2750 A	
Performed:	Sun Nov 12 05:37:57 2017	
Calibrator Value:	637.0	GAPI
Background Reading:	95.7	cps
Calibrator Reading:	982.0	cps
Sensitivity:	0.7188	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	ROFS-RBT-0002	
Tool Model:	2750 RBT	
Calibration Casing Diameter:	4.500	in
Calibration Depth:	31.479	ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.004	0.642	0.800	81.196	125.994	0.341
CAL	0.003	0.764				
5'	0.007	0.674	0.800	81.196	120.488	0.005
SUM						
S1	0.003	0.581	0.000	100.000	173.049	-0.525
S2	0.010	0.618	0.000	100.000	164.350	-1.601
S3	0.008	0.656	0.000	100.000	154.266	-1.266
S4	0.006	0.692	0.000	100.000	145.735	-0.905
S5	0.006	0.683	0.000	100.000	147.612	-0.892
S6	0.005	0.654	0.000	100.000	154.020	-0.737
S7	0.004	0.612	0.000	100.000	164.629	-0.740
S8	0.007	0.606	0.000	100.000	166.820	-1.170

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.003	0.764	1.000	0.000

Air Zero Calibration, performed Mon Feb 1 11:12:18 2021:

	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

Temperature Calibration Report

Serial Number:	ROFS-RBT-0002	
Tool Model:	2750 RBT	
Performed:	Wed Oct 14 10:20:48 2020	
	Reference	Reading
Low Reference:	100.00 degF	109.31 degF
High Reference:	235.00 degF	267.00 degF
Gain:	0.86	
Offset:	6.43	
Delta Spacing	1	

RELIANCE DIFIELD SERVICES

Company	TEP Rocky Mountain LLC
Well	Chevron GM 32-19
Field	Grand Valley
County	Garfield
State	Colorado