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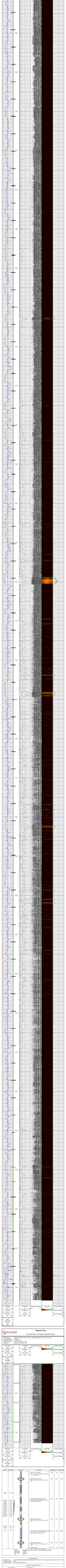

Fracture Plane

Recorded Mode of Wellbore Instability

Fracture Plane

Recorded Mode of Wellbore Instability

Fracture Plane

Recorded Mode of Wellbore Instability

Tool Model:	2750 GOB	
Performed:	Sun Nov 12 12:44:12 2017	
Calibrator Value:	637.0	GAPI
Background Reading:	113.2	cps
Calibrator Reading:	1022.4	cps
Sensitivity:	0.7007	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	101013	
Tool Model:	2750 RBT	
Calibration Casing Diameter:	4.500	in
Calibration Depth:	29.320	ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.008	0.882	0.800	81.196	91.971	0.092
CAL	0.003	0.749				
5'	0.008	0.715	0.800	81.196	113.697	-0.059
SUM						
S1	0.002	0.909	0.000	100.000	110.216	-0.180
S2	0.005	0.892	0.000	100.000	112.787	-0.589
S3	0.004	0.895	0.000	100.000	112.219	-0.451
S4	0.004	0.922	0.000	100.000	108.903	-0.453
S5	0.004	0.916	0.000	100.000	109.665	-0.428
S6	0.004	0.891	0.000	100.000	112.796	-0.445
S7	0.005	0.878	0.000	100.000	114.553	-0.629
S8	0.006	0.898	0.000	100.000	112.072	-0.679

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.003	0.749	1.000	0.000

Air Zero Calibration, performed Fri Feb 01 07:04:50 2019:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.003	0.000	0.001
5'	0.003	0.000	0.000
SUM			
S1	0.003	0.000	-0.000
S2	0.004	0.000	-0.000
S3	0.003	0.000	-0.000
S4	0.004	0.000	-0.000
S5	0.004	0.000	-0.000
S6	0.003	0.000	0.000
S7	0.003	0.000	0.000
S8	0.003	0.000	0.000

Temperature Calibration Report

Serial Number:	101013		
Tool Model:	2750 RBT		
Performed:	Sun Nov 12 13:21:13 2017		
	Reference	Reading	
Low Reference:	100.00	degF	112.30 degF
High Reference:	350.00	degF	394.75 degF
Gain:	0.89		
Offset:	0.60		
Delta Spacing	1		

RELIANCE
OILFIELD SERVICES

Company	TEP Rocky Mountain LLC
Well	Federal GM 312-8
Field	Grand Valley
County	Garfield
State	Colorado