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Pioneer Energy Services

CEMENT BOND LOG WITH GAMMA RAY

Company **VERDAD OIL & GAS CORP.**
Well **MEEHL 01N-65W-24-2N**
Field **WATTENBERG**
County **WELD** State **CO**

Location: API # : 05-123-40874-00
SHL: 270' FSL 1548' FEL SWSE
SEC 24 TWP 1N RGE 65W

Other Services
NONE

Permanent Datum	GL	Elevation 5022'	Elevation K.B. 5038' D.F. 5038' G.L. 5022'
Log Measured From	KB		
Drilling Measured From	KB		

Date of Service	JUNE 1, 2015			
Run Number	1			
Depth Driller or PBTD	11812'			
Depth Logger	7100'			
Bottom Log Interval	7100'			
Top Log Interval	SURFACE			
Open Hole Size	8+3/4"			
Type Fluid	WATER			
Fluid Level	1380'			
Fluid Density	NA			
Max. Recorded Temperature	NA			
Max. Wellhead Pressure	0			
Wellhead Connection	NA			
Estimated Cement Top	SEE LOG			
Unit Number	P-96			
Wireline Size	1/4"			
Location	FT. MORGAN			
Recorded By	SHAUN STUMP			
Witnessed By	CLAYTON CARMACK			
	Size	Wt/Ft	Top	Bottom
Tubing Record				
Surface Casing	9+5/8"	36#	SURFACE	1300'
Production Casing	7"	26#	SURFACE	7840'
Liner Record				

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All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not 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.

Comments

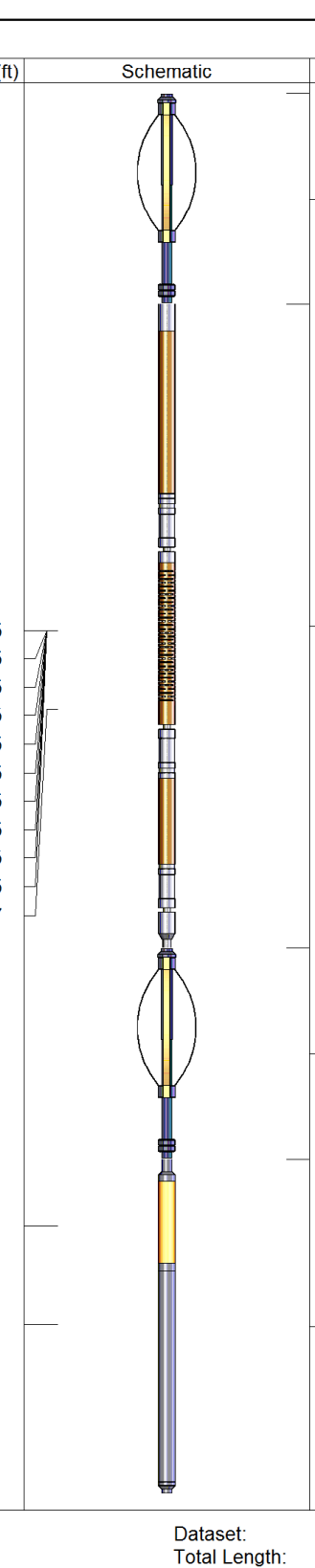
N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

0 PSI ON WELL WHILE LOGGING

S.O. 2-014054

THANK YOU FOR USING PIONEER ENERGY SERVICES

Your Pioneer Energy Services Crew	Tool Data - Services	Serial Number
Engineer: STUMP	CBL	070132
Operator: MIKE GARCIA	GAMMA RAY / CCL	110249
Operator: DALE SCHAEFER		
Operator:		



Sensor	Offset (ft)	Description	Len (ft)	OD (in)	Wt (lb)
		CENT-PTS275 (1)	2.88	2.75	
WVF3FT	11.75	RBT-Probe (070132) Probe Radii Bond Tool with Digital Telemetry	8.77	2.75	90.00
WVFCAL	11.75				
WVFS1	11.75				
WVFS2	11.75				
WVFS3	11.75				
WVFS4	11.75				
WVFS5	11.75				
WVFS6	11.75				
WVFS7	11.75				
WVFS8	11.75				
WVF5FT	10.67				
		CENT-PTS275 (2)	2.88	2.75	
CCL	3.63				
GR	2.30	GR_CCL-Probe (110249) Probe Gamma CCL	4.54	2.75	100.00

Dataset: 14054.db: field/well/run1/pass2
Total Length: 19.06 ft
Total Weight: 190.00 lb
O.D. 2.75 in

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MAIN PASS

0 PSI ON WELL WHILE LOGGING

Database File: 14054.db
Dataset Pathname: pass2
Presentation Format: cbl
Dataset Creation: Mon Jun 01 10:24:56 2015 by Log SCH 120430
Charted by: Depth in Feet scaled 1:240

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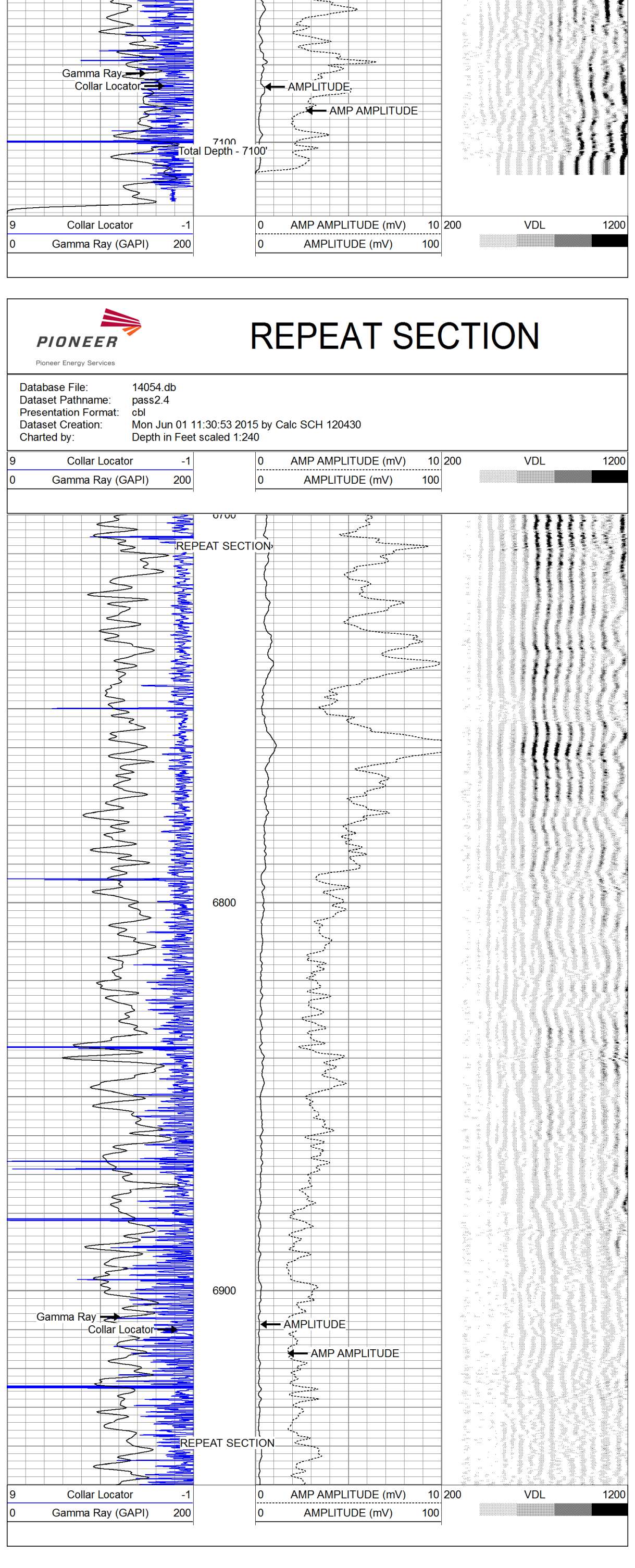
REPEAT SECTION

Database File: 14054.db
Dataset Pathname: pass2.4
Presentation Format: cbl
Dataset Creation: Mon Jun 01 11:30:53 2015 by Calc SCH 120430
Charted by: Depth in Feet scaled 1:240



Calibration Report

Database File: 14054.db
Dataset Pathname: pass2
Dataset Creation: Mon Jun 01 10:24:56 2015 by Log SCH 120430

Gamma Ray Calibration Report

Serial Number: 110249
Tool Model: Probe
Performed: Mon Jun 01 10:27:22 2015

Performed:	Mon Jun 01 10:27:22 2015	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.9500	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	070132	
Tool Model:	Probe	
Calibration Casing Diameter:	7.000	in
Calibration Depth:	158.042	ft

Master Calibration, performed Sat Oct 11 21:23:02 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.009	0.776	1.574	67.884	86.485	0.814
CAL	0.015	0.749				
5'	0.014	0.702	1.574	67.884	96.293	0.266
SUM						
S1	0.004	0.754	0.000	100.000	133.445	-0.573
S2	0.012	0.732	0.000	100.000	138.966	-1.708
S3	0.013	0.775	0.000	100.000	131.314	-1.710
S4	0.009	0.819	0.000	100.000	123.553	-1.162
S5	0.007	0.813	0.000	100.000	124.012	-0.880
S6	0.010	0.841	0.000	100.000	120.276	-1.193
S7	0.010	0.818	0.000	100.000	123.720	-1.186
S8	0.009	0.815	0.000	100.000	124.020	-1.095

Internal Reference Calibration, performed Wed Dec 31 17:00:00 1969:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.015	0.749	1.000	0.000

Air Zero Calibration, performed Mon May 18 11:14:10 2015:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.021	0.000	-0.012
5'	0.021	0.000	-0.007
SUM			
S1	0.023	0.000	-0.019
S2	0.021	0.000	-0.009
S3	0.022	0.000	-0.009
S4	0.024	0.000	-0.014
S5	0.023	0.000	-0.016
S6	0.022	0.000	-0.012
S7	0.021	0.000	-0.011
S8	0.022	0.000	-0.013

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State	CO