Company KERR-MCGEE OIL & GAS ONSHORE
Well HULSTROM 6-22
Field WATTENBERG
County WELD
State CO

PIONEER
Pioneer Energy Services

RADIAL
SECTOR BOND LOG
WITH GAMMA RAY

Company KERR-MCGEE OIL & GAS ONSHORE
Well HULSTROM 6-22
Field WATTENBERG
County WELD State **CO**

Location: API # : 05123217950000

1400' FNL & 1220' FWL
SWNW
SEC 22 TWP 1N RGE 68W

Other Services
NONE

Permanent Datum	GL	Elevation 5220	Elevation K.B. 5236 D.F. 5235 G.L. 5220
Log Measured From	KB		
Drilling Measured From	KB		

Date of Service	DECEMBER 4, 2014		
Run Number	ONE		
Depth Driller or PBTD	8577		
Depth Logger	3596		
Bottom Log Interval	3594		
Top Log Interval	SURFACE		
Open Hole Size	7+7/8"		
Type Fluid	WATER		
Fluid Level	SURFACE		
Fluid Density	8.33 PPG		
Max. Recorded Temperature	NA		
Max. Wellhead Pressure	0		
Wellhead Connection	PACKOFF		
Estimated Cement Top	2738		
Unit Number	96		
Wireline Size	1/4"		
Location	FT MORGAN, CO		
Recorded By	SCHUMAN		
Witnessed By	MR. NICK LANG		

	Size	Wt/Ft	Top	Bottom
Tubing Record				
Surface Casing	8+5/8"	24#	SURFACE	922
Production Casing	4+1/2"	11.6#	SURFACE	8566
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.

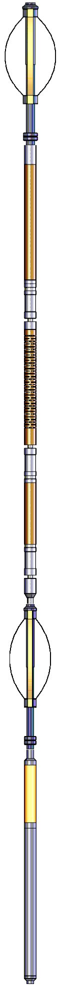
Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.
S.O.# 2-280096

THANK YOU FOR USING PIONEER ENERGY SERVICES

Your Pioneer ENERGY Services Crew
Engineer: Shaun
Operator: Brian
Operator: Angelo
Operator: Matt

Tool Data - Services	Serial Number
Sector CBL	130433
GR	080632

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			CSS_MID	2.79	3.00	36.00
WVF3FT	11.71		RBT-Probe (130433) Probe Radii Bond Tool with Digital Telemetry	8.92	2.75	90.00
WVFCAL	11.71					
WVFS1	11.71					
WVFS2	11.71					
WVFS3	11.71					
WVFS4	11.71					
WVFS5	11.71					
WVFS6	11.71					
WVFS7	11.71					
WVFS8	11.71					
WVF5FT	10.63					
			PTS275	2.83	2.75	
CCL	3.63					
GR	2.30		GR_CCL-Probe (110249) Probe Gamma CCL	4.54	2.75	100.00

Dataset:	hulstrom 6-22_rbl.db: field/well/RBL/pass1
Total Length:	19.08 ft
Total Weight:	226.00 lb
O.D.	3.00 in

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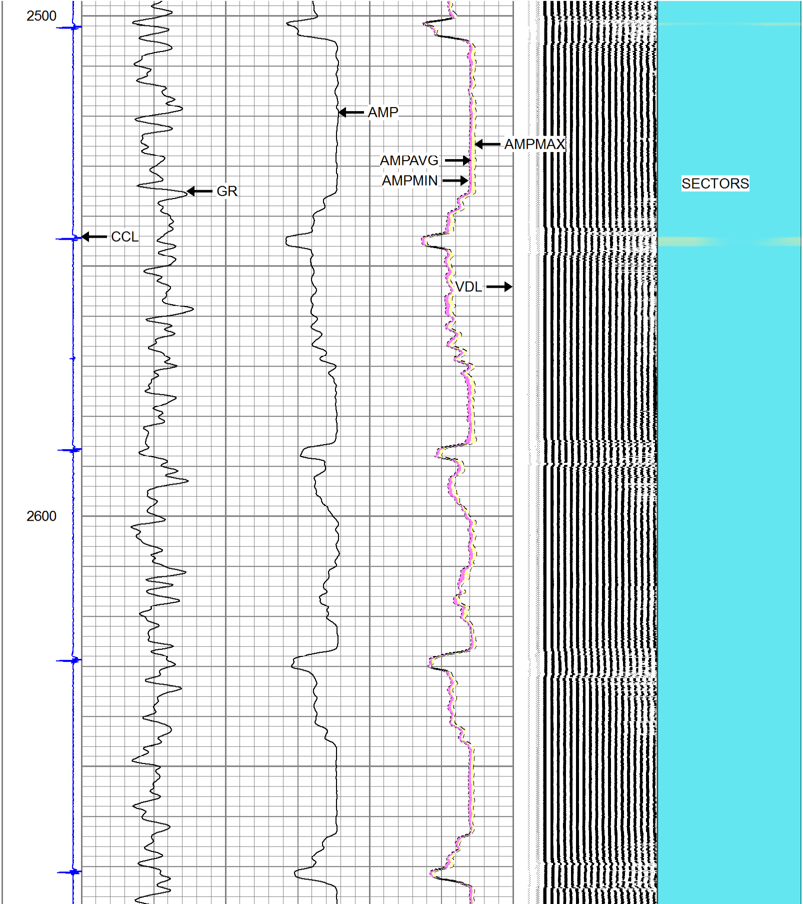
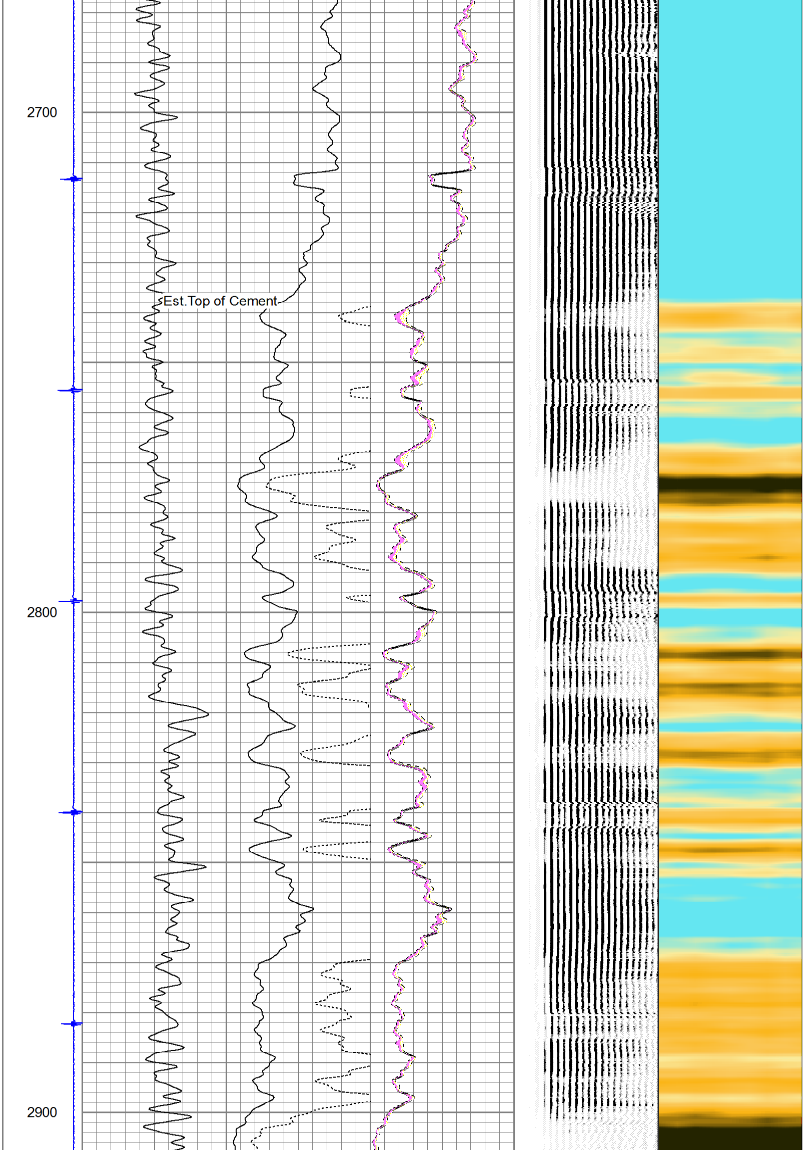
MAIN LOG

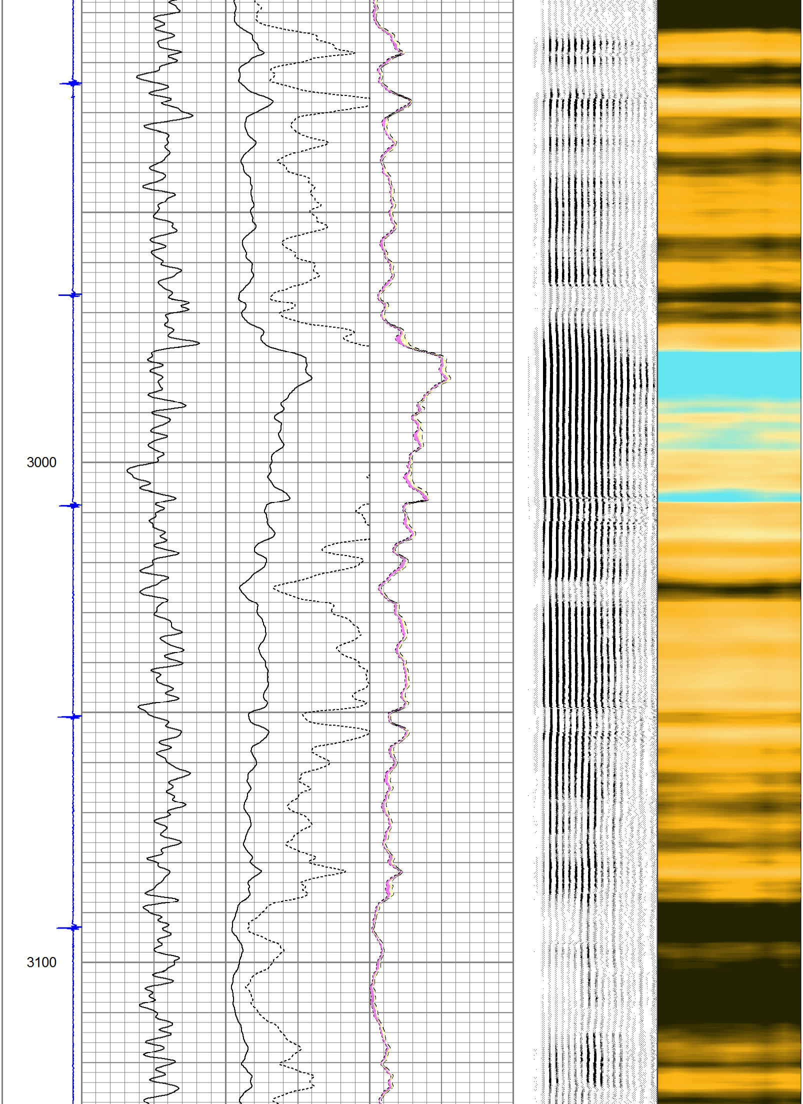
LOGGED WITH 0 PSI APPLIED AT SURFACE

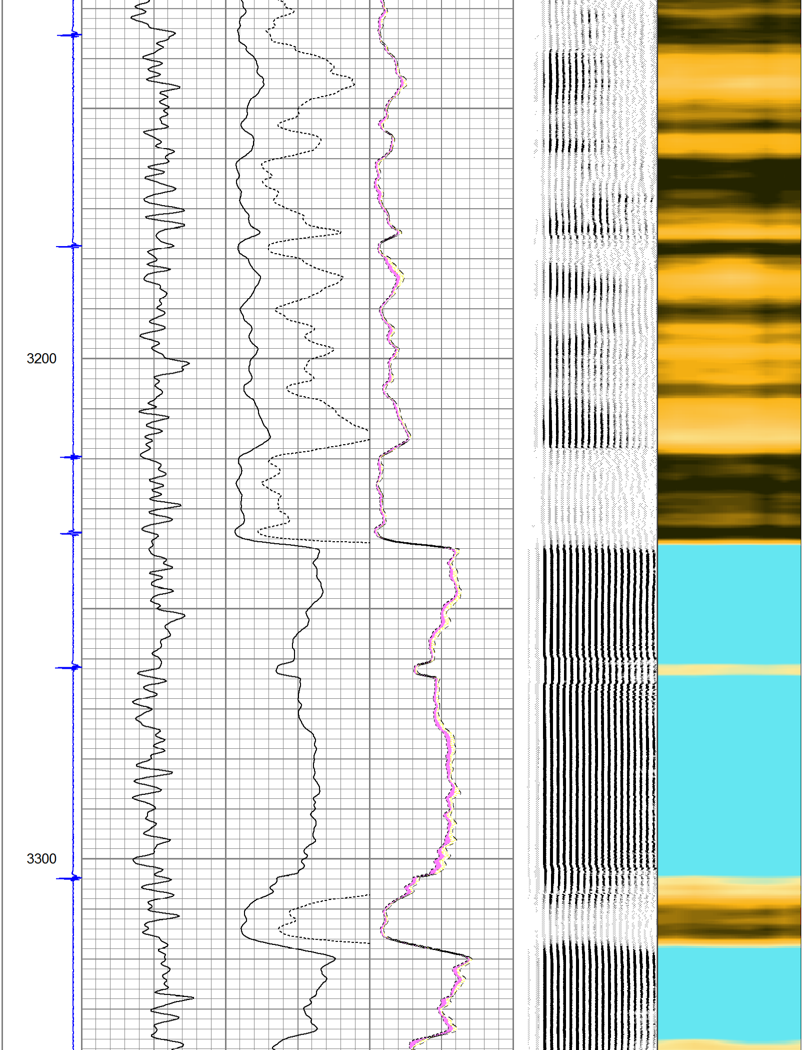
Database File:	hulstrom 6-22_rbl.db
Dataset Pathname:	RBL/pass3
Presentation Format:	scbl02
Dataset Creation:	Thu Dec 04 11:15:53 2014 by Log SCH 120430
Charted by:	Depth in Feet scaled 1:240

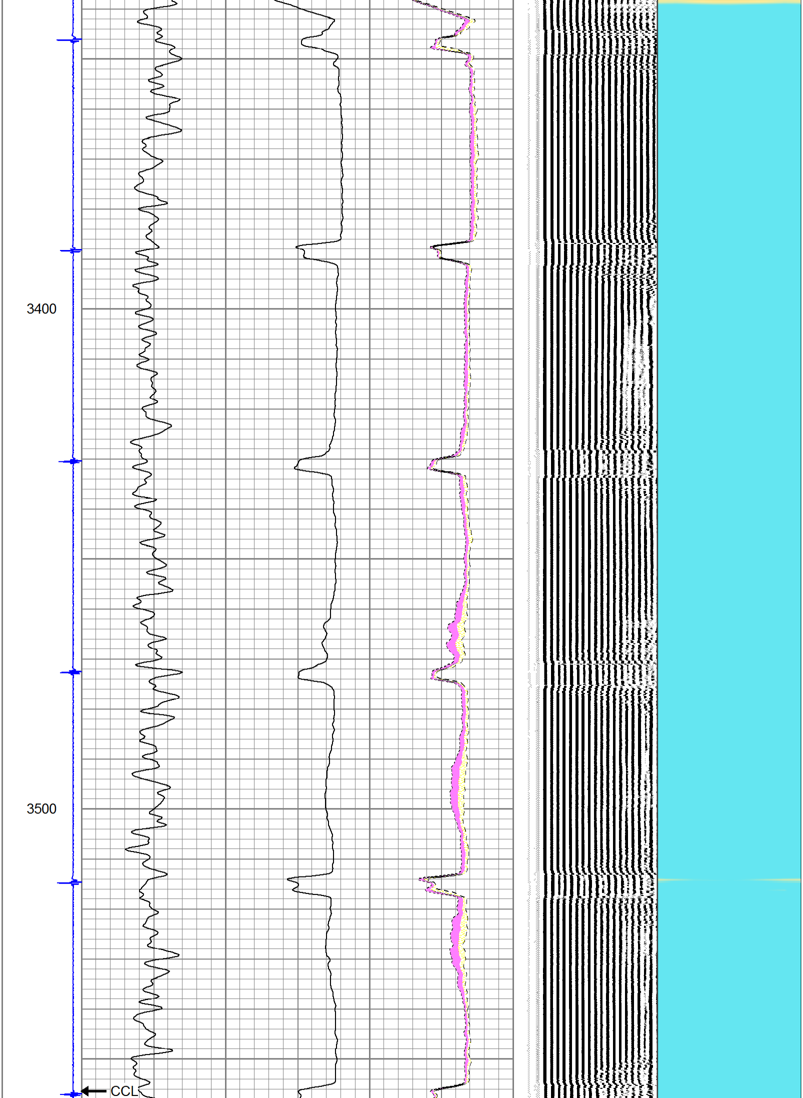
9 CCL -1	0 GR (GAPI) 200	0 AMP (mV) 100	0 AMPAVG 150	200 VDL 1200	1 SECTOR MAP 8
		0 AMPx5 (mV) 30	0 AMPMAX 150		10 60
			0 AMPMIN 150		

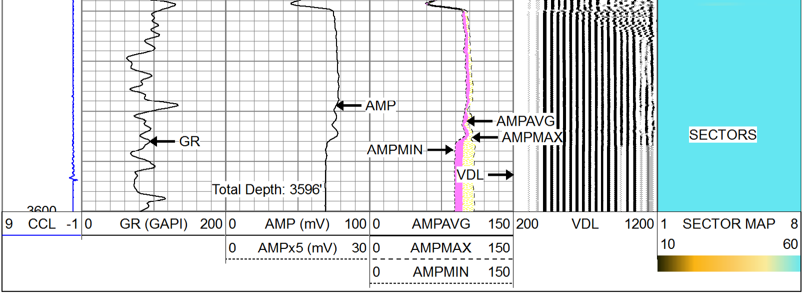












Calibration Report

Database File:	hulstrom 6-22_rbl.db
Dataset Pathname:	RBL/pass1
Dataset Creation:	Thu Dec 04 11:00:47 2014 by Log SCH 120430

Gamma Ray Calibration Report

Serial Number:	110249	
Tool Model:	Probe	
Performed:	Sat Oct 11 19:40:17 2014	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	130433	
Tool Model:	Probe	
Calibration Casing Diameter:	4.500	in
Calibration Depth:	1278.442	ft

Master Calibration, performed Fri Jun 06 09:22:21 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.015	0.313	1.000	81.196	175.000	0.000
CAL	0.015	0.517				
5'	0.015	0.248	1.000	81.196	344.016	-4.115
SUM						
S1	0.015	0.287	0.000	100.000	367.140	-5.414
S2	0.015	0.289	0.000	100.000	364.851	-5.353
S3	0.015	0.305	0.000	100.000	344.665	-5.074
S4	0.015	0.332	0.000	100.000	315.101	-4.627
S5	0.015	0.350	0.000	100.000	298.662	-4.557
S6	0.015	0.349	0.000	100.000	299.579	-4.542
S7	0.015	0.333	0.000	100.000	313.966	-4.691
S8	0.014	0.306	0.000	100.000	342.776	-4.937

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	0.517	1.000	0.000

Air Zero Calibration, performed Wed Dec 31 17:00:00 1969:

	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

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Well	HULSTROM 6-22
Field	WATTENBERG
County	WELD
State	CO