Company	KERR-MCGEE OIL & GAS ONSHORE
Well	GEE 2C-12HZ
Field	WATTENBERG
County	WELD
State	CO

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Pioneer Energy Services

RADIAL SECTOR BOND LOG WITH GAMMA RAY

Company	**KERR-MCGEE OIL & GAS ONSHORE**
Well	**GEE 2C-12HZ**
Field	**WATTENBERG**
County	**WELD** State **CO**

Location: API # : 05123391710000
SHL: 771' FNL & 1533' FEL NWNE
LAT: 40.128604
LONG: -104.835411
SEC 24 TWP 2N RGE 67W

Other Services
JBGR
CALIPER

Permanent Datum	GL	Elevation 4859	Elevation
Log Measured From	KB		K.B. 4875
Drilling Measured From	KB...16' ABOVE GL		D.F. 4875
			G.L. 4859

Date of Service	MARCH 17, 2015
Run Number	1
Depth Driller or PBTD	17665
Depth Logger	7467
Bottom Log Interval	7465
Top Log Interval	SURFACE
Open Hole Size	8+3/4"
Type Fluid	WATER
Fluid Level	SURFACE
Fluid Density	8.33 PPG
Max. Recorded Temperature	230 F
Max. Wellhead Pressure	2800 PSI
Wellhead Connection	7 1/16"10K FLANGE
Estimated Cement Top	34
Unit Number	P109
Wireline Size	1/4"
Location	FT. MORGAN, CO
Recorded By	SCHUMAN
Witnessed By	MR MARIO TORREZ

	Size	Wt/Ft	Top	Bottom
Tubing Record				
Surface Casing	9+5/8"	36#	SURFACE	1048
Production Casing	7"	26#	SURFACE	7789
Liner Record	4+1/2"	11.6#	6808	17661

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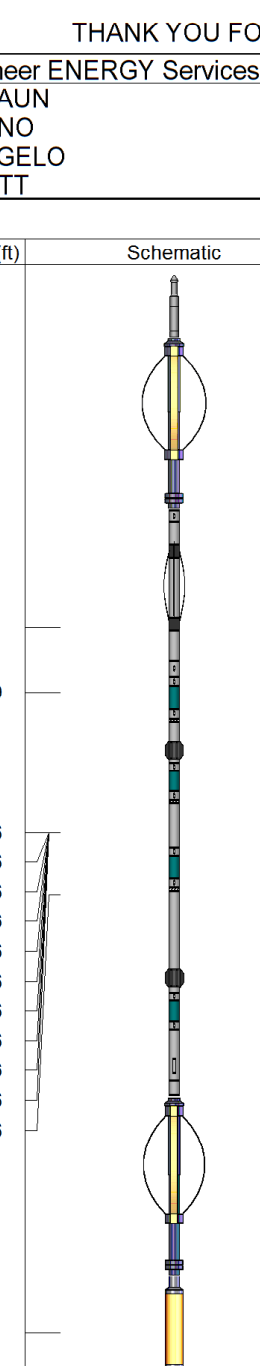
All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not be liable or responsible for any loss, costs, damages, 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. # 2-280142

THANK YOU FOR USING PIONEER ENERGY SERVICES

Your Pioneer ENERGY Services Crew	Tool Data - Services	Serial Number
Engineer: SHAUN	SECTOR CBL	141167
Operator: GENO	GR	110249
Operator: ANGELO		
Operator: MATT		



Sensor	Offset (ft)	Description	Len (ft)	OD (in)	Wt (lb)
		STNDRD Standard Cable Head	1.00	1.69	10.00
		2.75 2 3/4" Tekco Adjustable Centralizer	2.73	2.75	25.00
IntTemp	17.71				
TEMP	16.69				
		RBT-RBT-C3 (141167_7in) Probe Radii Bond Tool with Digital Telemetry	9.40	2.75	90.00
WVF3FT	14.46				
WVFCAL	14.46				
WVFS1	14.46				
WVFS2	14.46				
WVFS3	14.46				
WVFS4	14.46				
WVFS5	14.46				
WVFS6	14.46				
WVFS7	14.46				
WVFS8	14.46				
WVF5FT	13.46				
		PTS275	2.83	2.75	
CCL	6.47				
		GR_CCL-Probe (110249) Probe Gamma CCL	4.54	2.75	100.00
GR	3.73				
		PTS275	2.83	2.75	

Dataset: gee 2c-12hz_rbl.db: field/well/RBL/pass1
Total Length: 23.33 ft
Total Weight: 225.00 lb
O.D.: 2.75 in

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MAIN LOG

LOGGED WITH 2800 PSI APPLIED AT WELLHEAD

Database File:	gee 2c-12hz_rbl.db
Dataset Pathname:	RBL/main
Presentation Format:	scbl02
Dataset Creation:	Tue Mar 17 13:18:02 2015
Charted by:	Depth in Feet scaled 1:240

3500
3600
3700
3800
3900
4000
4100
4200
4300
4400
4500
4600
4700
4800
4900
5000
5100
5200
5300
5400
5500
5600
5700
5800
5900
6000
6100
6200
6300
6400
6500
6600
6700
6800
6900
7000
7100
7200
7300
7400
Well Temp
3' Amplitude
CCL
TT3FT
Gamma Ray
AMPAVG
AMPMAX
AMPMIN
Amplified Amplitude
VDL
SECTORS
Total Depth: 7467'
-9 CCL 1
Gamma Ray
0 (GAPI) 200
TT3FT
3' Amplitude
0 (mV) 100
Amplified Amplitude
0 AMPAVG 150
0 AMPMAX 150
0 AMPMIN 150
200 VDL 1200
1 SECTOR MAP 8
10
60

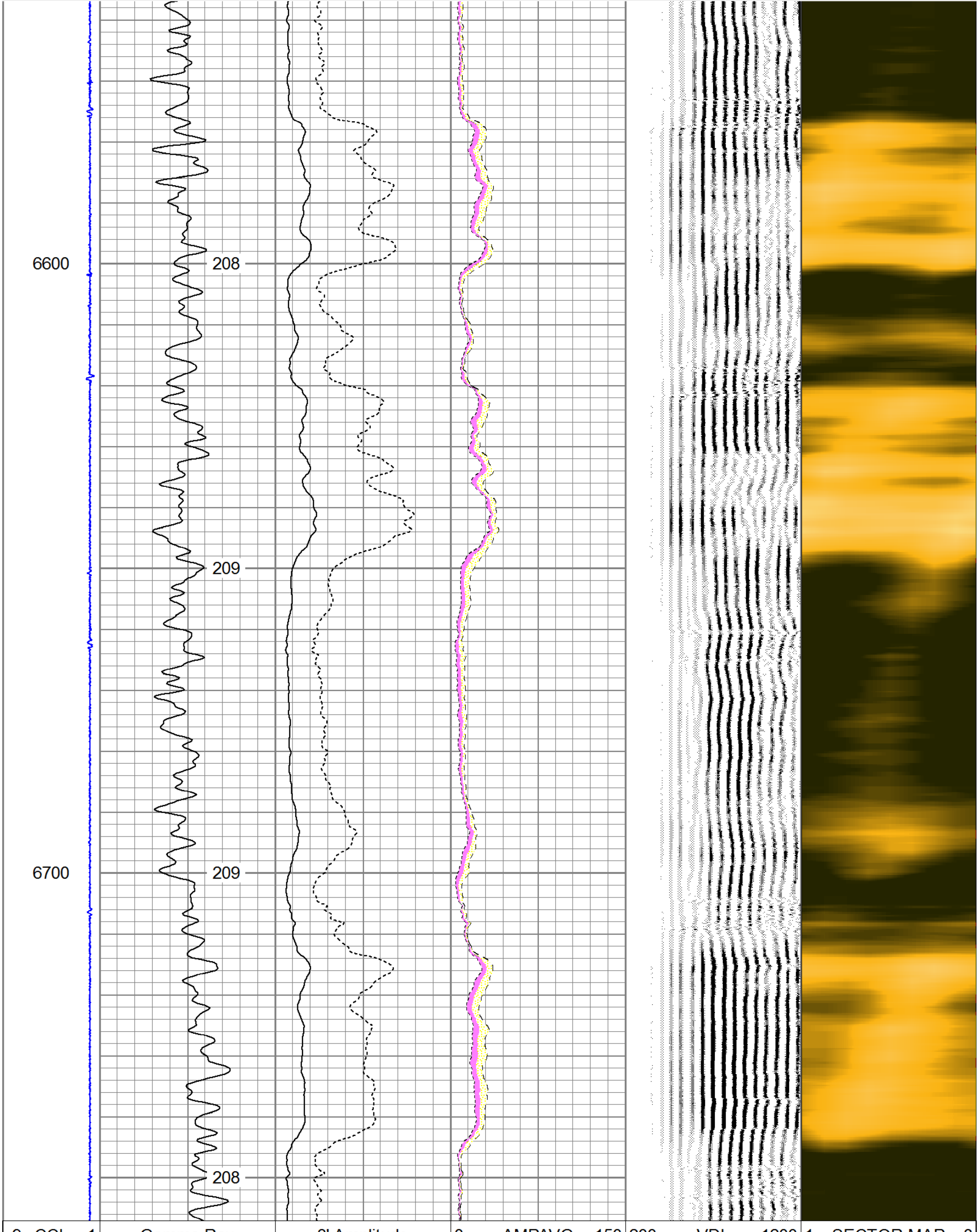
290	(usec)	190	0 (mV) 30
	Well Temp (degF)		

REPEAT SECTION

LOGGED WITH 0 PSI APPLIED AT WELLHEAD

Database File:	gee 2c-12hz_rbl.db
Dataset Pathname:	RBL/pass1
Presentation Format:	scbl02
Dataset Creation:	Tue Mar 17 11:37:46 2015 by Log 7.0 B1
Charted by:	Depth in Feet scaled 1:240

-9 CCL 1	Gamma Ray 0 (GAPI) 200	3' Amplitude 0 (mV) 100	0 AMPAVG 150	200 VDL 1200	1 SECTOR MAP 8
	TT3FT 270 (usec) 170	Amplified Amplitude 0 (mV) 30	0 AMPMAX 150		10 60
	Well Temp (degF)		0 AMPMIN 150		



-9 CCL 1	Gamma Ray 0 (GAPI) 200	3' Amplitude 0 (mV) 100	0 AMPAVG 150	200 VDL 1200	1 SECTOR MAP 8
	TT3FT 270 (usec) 170	Amplified Amplitude 0 (mV) 30	0 AMPMAX 150		10 60
	Well Temp (degF)		0 AMPMIN 150		

Calibration Report

Database File:	gee 2c-12hz_rbl.db
Dataset Pathname:	RBL/pass3
Dataset Creation:	Tue Mar 17 11:58:11 2015 by Log 7.0 B1

Gamma Ray Calibration Report

Serial Number:	110249	
Tool Model:	Probe	
Performed:	Tue Feb 03 05:05:05 2015	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.9400	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	141167_7in	
Tool Model:	RBT-C3	
Calibration Casing Diameter:	7.000	in
Calibration Depth:	0.000	ft

Master Calibration, performed Sat Feb 21 12:03:31 2015:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.015	0.670	1.500	62.165	94.000	0.770
CAL	0.016	0.668				
5'	0.015	0.659	1.500	62.165	94.221	0.084
SUM						
S1	0.009	0.660	0.000	100.000	153.420	-1.324
S2	0.015	0.667	0.000	100.000	153.512	-2.369
S3	0.016	0.669	0.000	100.000	153.136	-2.383
S4	0.016	0.665	0.000	100.000	154.101	-2.447
S5	0.015	0.662	0.000	100.000	154.607	-2.357
S6	0.015	0.670	0.000	100.000	152.722	-2.332
S7	0.015	0.672	0.000	100.000	152.372	-2.344
S8	0.015	0.671	0.000	100.000	152.486	-2.338

Internal Reference Calibration, performed Sat Feb 21 09:32:09 2015:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.016	0.668	0.016	0.668	1.000	-0.000

Air Zero Calibration, performed Sat Feb 21 09:44:51 2015:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.018	0.000	-0.003
5'	0.021	0.000	-0.006
SUM			
S1	0.011	0.000	-0.003
S2	0.017	0.000	-0.001
S3	0.017	0.000	-0.001
S4	0.017	0.000	-0.001
S5	0.017	0.000	-0.001
S6	0.017	0.000	-0.002
S7	0.017	0.000	-0.002
S8	0.017	0.000	-0.002

Temperature Calibration Report

Serial Number:	141167_7in			
Tool Model:	RBT-C3			
Performed:	Thu Feb 19 09:06:23 2015			
	Reference		Reading	
Low Reference:	0.00	degF	0.00	degF
High Reference:	1.00	degF	1.00	degF
Gain:	0.86			
Offset:	-2.00			
Delta Spacing	1			

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Company	KERR-MCGEE OIL & GAS ONSHORE		
Well	GEE 2C-12HZ		
Field	WATTENBERG		
County	WELD		
State	CO	Country	USA