PIONEER
Pioneer Energy Services

RADIAL SECTOR BOND LOG WITH GAMMA RAY

Company	KERR-MCGEE OIL & GAS ONSHORE
Well	ST. ACACIUS 29-35
Field	WATTENBERG
County	WELD
State	CO

Company **KERR-MCGEE OIL & GAS ONSHORE**
Well **ST. ACACIUS 29-35**
Field **WATTENBERG**
County **WELD** State **CO**

Location: API # : 05123251390000
SHL: 1473' FNL & 1101' FWL
(EST) BHL: 41' FNL & 1312' FWL
SEC 35 TWP 3N RGE 68W

Other Services
None

Permanent Datum GL Elevation 4920
Log Measured From KB
Drilling Measured From KB...12' ABOVE GL

Elevation
K.B. 4932
D.F. 4931
G.L. 4920

Date of Service	JANUARY 15, 2015
Run Number	1
Depth Driller or PBTD	7620
Depth Logger	3600
Bottom Log Interval	3599
Top Log Interval	SURFACE
Open Hole Size	7+7/8"
Type Fluid	WATER
Fluid Level	SEE LOG
Fluid Density	8.33 PPG
Max. Recorded Temperature	152 F
Max. Wellhead Pressure	0
Wellhead Connection	PACKOFF
Estimated Cement Top	884
Unit Number	P24
Wireline Size	9/32"
Location	FT. MORGAN, CO
Recorded By	SCHUMAN
Witnessed By	MR RODRIGO

	Size	Wt/Ft	Top	Bottom
Tubing Record				
Surface Casing	8+5/8"	24#	SURFACE	895
Production Casing	4+1/2"	11.6#	SURFACE	NA
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.

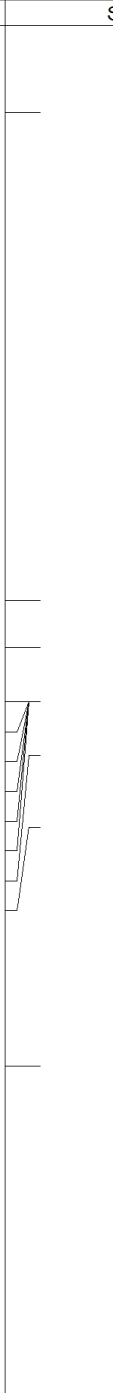
Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.
S.O. # 2-280116

CORRELATED TO CBL DATED 10-31-2007

THANK YOU FOR USING PIONEER ENERGY SERVICES

Your Pioneer ENERGY Services Crew	Tool Data - Services	Serial Number
Engineer: SHAUN	SECTOR CBL	IEHN3-01
Operator: GENO	GR	ID6U7-03
Operator: ANGELO		
Operator: MATT		

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
CCL	19.32		CCL-168tekco (001) TEKCO 1 11/16" 450 Deg. F CCL	1.67	1.69	9.00
			1.69 1 11/16" Tekco Adjustable Centralizer	2.21	1.69	10.00
TEMP	12.53					
WVFCAL	11.87					
WVFS1	11.12		SCBLTEKSLIM-T169Temp (IEHN3-01) Tekco 1 11/16" 400 Deg F Sector with Temp	10.48	1.69	53.00
WVFS2	11.12					
WVFS3	11.12					
WVFS4	11.12					
WVFS5	11.12					
WVFS6	11.12					
WVF3FT	10.37					
WVF5FT	9.37					
WVFTEMP	6.03					
			1.69 1 11/16" Tekco Adjustable Centralizer	2.21	1.69	10.00
			GR-Tek-Co (011) TEKCO 1 11/16" 400 Deg. F Scintillation Logging Gamma Ray	3.82	1.68	18.00
GR	1.00					

Dataset:	st acacius 29-35.db: field/well/rbl/pass1
Total Length:	20.39 ft
Total Weight:	100.00 lb
O.D.	1.69 in

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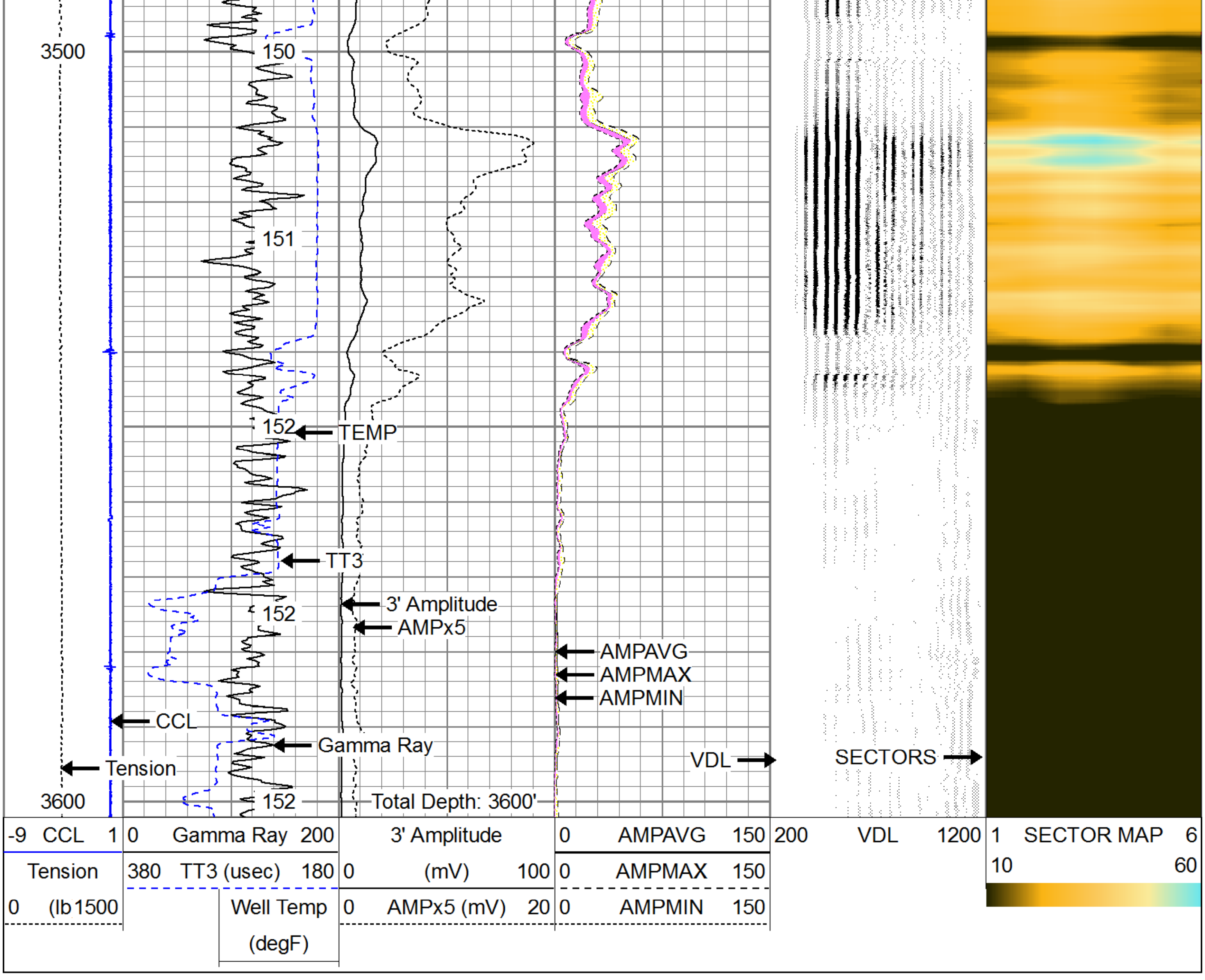
MAIN LOG

LOGGED WITH 0 PSI APPLIED AT SURFACE

Database File:	st acacius 29-35.db
Dataset Pathname:	MAIN2.1
Presentation Format:	scbl02
Dataset Creation:	Thu Jan 15 09:19:32 2015 by Calc 7.0 B1
Charted by:	Depth in Feet scaled 1:240



Calibration Report

Database File: st acacius 29-35.db
Dataset Pathname: rbl/pass1
Dataset Creation: Thu Jan 15 07:26:09 2015 by Log 7.0 B1

Gamma Ray Calibration Report

Serial Number:	011	
Tool Model:	Tek-Co	
Performed:	Thu Jan 15 07:07:50 2015	
Calibrator Value:	1.0	
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.6000	/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	IEHN3-01	
Tool Model:	T169Temp	
Calibration Casing Diameter:	4.500	in
Calibration Depth:	746.522	ft

Master Calibration, performed Mon Jan 12 09:02:44 2015:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.029	0.327	0.000	81.196	235.000	1.000
CAL	-0.023	0.432				
5'	-0.005	0.424	0.000	81.196	189.250	0.889
SUM						
S1	-0.052	0.726	0.000	100.000	128.440	6.723
S2	-0.064	0.859	0.000	100.000	108.301	6.976
S3	-0.041	1.174	0.000	100.000	82.317	3.372
S4	-0.018	1.237	0.000	100.000	79.676	1.426
S5	-0.015	1.037	0.000	100.000	95.058	1.430
S6	-0.016	0.773	0.000	100.000	126.731	2.064
S7						
S8						

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	-0.023	0.432	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			
S8			

Temperature Calibration Report

Serial Number: IEHN3-01
Tool Model: T169Temp
Performed: Mon Jan 12 07:35:40 2015

	Reference		Reading	
Low Reference:	0.00	degF	0.00	usec
High Reference:	1.00	degF	1.00	usec

Gain: 0.33
Offset: 0.00
Delta Spacing 2

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County	WELD		
State	CO	Country	USA