PIONEER
Pioneer Energy Services

RADIAL SECTOR BOND LOG WITH GAMMA RAY

Company	KERR-MCGEE OIL & GAS ONSHORE
Well	DOUTHIT 41C-27HZ
Field	WATTENBERG
County	WELD
State	CO

Company **KERR-MCGEE OIL & GAS ONSHORE**
Well **DOUTHIT 41C-27HZ**
Field **WATTENBERG**
County **WELD** State **CO**

Location: API # : 05123395010000
SHL: 1500' FNL & 339' FEL
SENE
SEC 26 TWP 3N RGE 68W

Other Services
CALIPER

			Elevation
Permanent Datum	GL	Elevation 4942	K.B. 4959
Log Measured From	KB		D.F. 4959
Drilling Measured From	KB		G.L. 4942

Date of Service	NOVEMBER 12, 2014
Run Number	ONE
Depth Driller or PBTD	12950
Depth Logger	6698
Bottom Log Interval	6696
Top Log Interval	SURFACE
Open Hole Size	8+3/4"
Type Fluid	WATER
Fluid Level	SURFACE
Fluid Density	8.33 PPG
Max. Recorded Temperature	SEE CALIPER LOG
Max. Wellhead Pressure	2800 PSI
Wellhead Connection	7-1/16" 10K FLANGE
Estimated Cement Top	638
Unit Number	P-59
Wireline Size	9/32"
Location	FT MORGAN, CO
Recorded By	SCHUMAN
Witnessed By	MR EDGAR CHAVEZ

	Size	Wt/Ft	Top	Bottom
Tubing Record				
Surface Casing	9+5/8"	36	Surface	1244
Production Casing	7"	26	Surface	7757
Liner Record	4+1/2"	11.6	6652	12935

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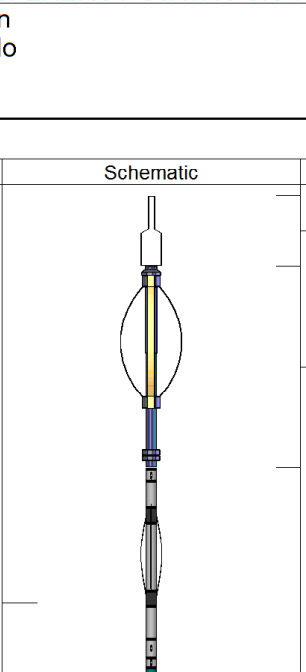
All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not be liable or responsible for any loss, costs, damages, 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.
LOG SHIFTED +15' TO CORRELATE TO LINER TOP
SO# 2-280087

THANK YOU FOR USING PIONEER ENERGY SERVICES

Your Pioneer ENERGY Services Crew	Tool Data - Services	Serial Number
Engineer: Shaun	Sector CBL	130584
Operator: Angelo	GR	111211
Operator: Brian		
Operator: Matt		



Sensor	Offset (ft)	Description	Len (ft)	OD (in)	Wt (lb)
		STNDRD Standard Cable Head	1.00	1.69	10.00
		PTS275	2.83	2.75	
IntTemp	14.88				
TEMP	13.86				
WVF3FT	11.63	RBT-RBT-C3 (130584) Probe Radii Bond Tool with Digital Telemetry	9.40	2.75	90.00
WVFCAL	11.63				
WVFS1	11.63				
WVFS2	11.63				
WVFS3	11.63				
WVFS4	11.63				
WVFS5	11.63				
WVFS6	11.63				
WVFS7	11.63				
WVFS8	11.63				
WVF5FT	10.63				
		PTS275	2.83	2.75	
CCL	3.63				
GR	0.90	GR_CCL-Probe (111211) Probe Gamma CCL	4.54	2.75	100.00

Dataset:	douthit 41c-27hz.db: field/well/rbl/pass1
Total Length:	20.60 ft
Total Weight:	200.00 lb
O.D.	2.75 in

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MAIN LOG

LOGGED WITH 2800 PSI APPLIED AT WELLHEAD

Database File:	douthit 41c-27hz.db
Dataset Pathname:	rbl/pass3
Presentation Format:	scbl02
Dataset Creation:	Wed Nov 12 15:36:30 2014 by Log 7.0 B1
Charted by:	Depth in Feet scaled 1:240

Calibration Report

Database File: douthit 41c-27hz.db
Dataset Pathname: rbl/pass1
Dataset Creation: Wed Nov 12 14:55:48 2014 by Log 7.0 B1

Gamma Ray Calibration Report

Serial Number:	111211	
Tool Model:	Probe	
Performed:	Sat Nov 01 12:31:08 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:	130584	
Tool Model:	RBT-C3	
Calibration Casing Diameter:	7.000	in
Calibration Depth:	1545.492	ft

Master Calibration, performed Wed Nov 12 11:56:04 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.001	0.566	1.500	62.165	106.866	3.100
CAL	-0.005	0.778				
5'	-0.003	0.619	1.500	62.165	97.473	1.789
SUM						
S1	-0.014	0.517	0.000	100.000	188.253	2.592
S2	-0.001	0.525	0.000	100.000	189.995	0.199
S3	-0.003	0.559	0.000	100.000	178.149	0.487
S4	-0.004	0.610	0.000	100.000	162.737	0.713
S5	-0.002	0.660	0.000	100.000	151.035	0.245
S6	-0.005	0.661	0.000	100.000	150.177	0.720
S7	-0.004	0.608	0.000	100.000	163.396	0.606
S8	0.002	0.555	0.000	100.000	180.907	-0.342

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	-0.005	0.778	1.000	0.000

Air Zero Calibration, performed Wed Aug 13 15:26:48 2014:

	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

Temperature Calibration Report

Serial Number: 130584
Tool Model: RBT-C3
Performed: Wed Aug 13 16:18:33 2014

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

Gain: 0.77
Offset: 15.00
Delta Spacing 1

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Field	WATTENBERG		
County	WELD		
State	CO	Country	USA