SECTOR BOND LOG
VDL & CCL
GAMMA RAY

PIONEER
Pioneer Energy Services

Company	ANADARKO PETROLEUM CORP.
Well	PARAGON 9N-31HZ
Field	WATTENBERG
County	WELD
State	COLORADO

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Location: API # : 05123385390000
SHL: 422' FSL & 330' FEL
SESE
SEC 6 TWP 1N RGE 65W

Other Services
CALIPER
GUAGE RING

Permanent Datum	GL	Elevation	4975
Log Measured From	GL		
Drilling Measured From	KB		

Elevation
K.B. 5000
D.F. 5000
G.L. 4975

Date	FEBRUARY 8, 2014
Run Number	ONE
Depth Driller	14227
Depth Logger	6610
Bottom Logged Interval	6609
Top Log Interval	SURFACE
Open Hole Size	8.75"
Type Fluid	WATER
Density / Viscosity	NA
Max. Recorded Temp.	NA
Estimated Cement Top	96
Time Well Ready	ROA
Time Logger on Bottom	1115
Equipment Number	ONE
Location	FORT MORGAN
Recorded By	SCHUMAN
Witnessed By	MR. RICK DUNFORD

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	9.625	36#	O	1111
Prot. String				
Production String	7"	26#	O	7552
Liner	4.5"	11.6#	6485	14212

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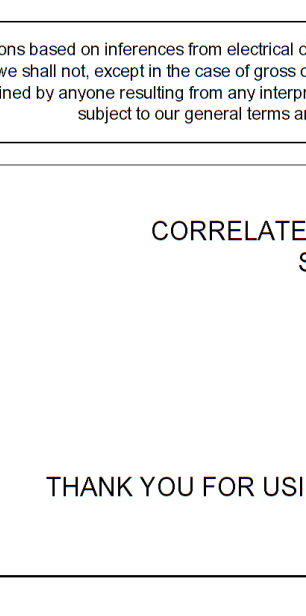
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

CORRELATED TO LINER TOP AT 6485'
SO # 2-206067

THANK YOU FOR USING PIONEER ENERGY SERVICES!

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			PTS275	2.83	2.75	
WVF3FT WVFCAL WVFS1 WVFS2 WVFS3 WVFS4 WVFS5 WVFS6 WVFS7 WVFS8 WVF5FT	11.50 11.50 11.50 11.50 11.50 11.50 11.50 11.50 11.50 11.50 10.42		RBT-Probe (Base) Probe Radii Bond Tool with Digital Telemetry	8.92	2.75	90.00
			PTS275	2.83	2.75	
CCL	3.64					
			GR-Probe (275) Probe 2.75" 4 Channel Pulse	4.33	2.75	30.00
GR	0.90					

Dataset:	paragon 9n-31hz_rbl.db: field/well/RBL/pass1
Total Length:	18.92 ft
Total Weight:	120.00 lb
O.D.	2.75 in

MAIN PASS

Logged w/ 2800 PSI applied at wellhead

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Database File:	paragon 9n-31hz_rbl.db
Dataset Pathname:	RBL/pass1
Presentation Format:	scbl02
Dataset Creation:	Sat Feb 08 11:44:56 2014 by Log SCH 120126
Charted by:	Depth in Feet scaled 1:240

Calibration Report

Database File: paragon 9n-31hz_rbl.db
Dataset Pathname: RBL/pass1
Dataset Creation: Sat Feb 08 11:44:56 2014 by Log SCH 120126

Gamma Ray Calibration Report

Type / Serial: Probe / 275

SHOP CALIBRATION	Sat Feb 01 10:25:15 2014				
	Counts/Sec.	Gain	Offset	Jig	Units
Background	35.0				cps
Calibrator	160.0				cps
		1.0000			GAPI/cps
PRIMARY VERIFICATION					
Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI
BEFORE SURVEY VERIFICATION					
Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI
AFTER SURVEY VERIFICATION					
Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

Segmented Cement Bond Log Calibration Report

Serial Number:	Base	
Tool Model:	Probe	
Calibration Casing Diameter:	7.000	in
Calibration Depth:	1573.225	ft

Master Calibration, performed Sat Feb 08 10:54:49 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.013	2.152	0.000	62.165	29.061	-0.375
CAL	0.012	0.663				
5'	0.013	2.448	0.000	62.165	25.528	-0.334
SUM						
S1	0.013	2.074	0.000	100.000	48.508	-0.618
S2	0.013	2.078	0.000	100.000	48.429	-0.612
S3	0.013	2.129	0.000	100.000	47.259	-0.597
S4	0.013	2.207	0.000	100.000	45.574	-0.584
S5	0.013	2.225	0.000	100.000	45.203	-0.576
S6	0.013	2.232	0.000	100.000	45.070	-0.589
S7	0.013	2.172	0.000	100.000	46.307	-0.599
S8	0.013	2.105	0.000	100.000	47.805	-0.628

Internal Reference Calibration, performed Sat Feb 01 16:08:53 2014:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.012	0.663	1.000	0.000

Air Zero Calibration, performed Sat Feb 01 16:08:53 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

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