PSI PHOENIX SURVEYS, INC.

V.D.L. C.C.L. GAMMA RAY CEMENT BOND LOG

Company	ENCANA OIL & GAS (USA) INC.
Well	SEGAL 4-0-24
Field	WATTENBERG
County	WELD
State	COLORADO

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Well SEGAL 4-0-24
Field WATTENBERG
County WELD State COLORADO

Location: API #: 05123317760000
SFL 615' FNL- 1980' FWL
BHL 50' FNL- 2700' FWL
SEC 24 TWP 4N RGE 66W

Other Services

Permanent Datum	GL	Elevation 4724'	Elevation
Log Measured From	KB		K.B. 4736'
Drilling Measured From	KB		D.F. 4735' G.L. 4724'

Date	JAN. 19, 2011
Run Number	ONE
Depth Driller	8010'
Depth Logger	7974'
Bottom Logged Interval	7962'
Top Log Interval	2910'
Open Hole Size	7.875"
Type Fluid	2 % KCL WATER
Density / Viscosity	28
Max. Recorded Temp.	214 DEG.
Estimated Cement Top	3010'
Time Well Ready	N/A
Time Logger on Bottom	N/A
Equipment Number	9605
Location	FT. MORGAN
Recorded By	RANDY AZEVEDO
Witnessed By	GARY CUMMINGS

Borehole Record

Run Number	Bit	From	To

Tubing Record

Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String				
Prot. String	4.5"	11.6 LB	SURFACE	7996'
Production String				
Liner				

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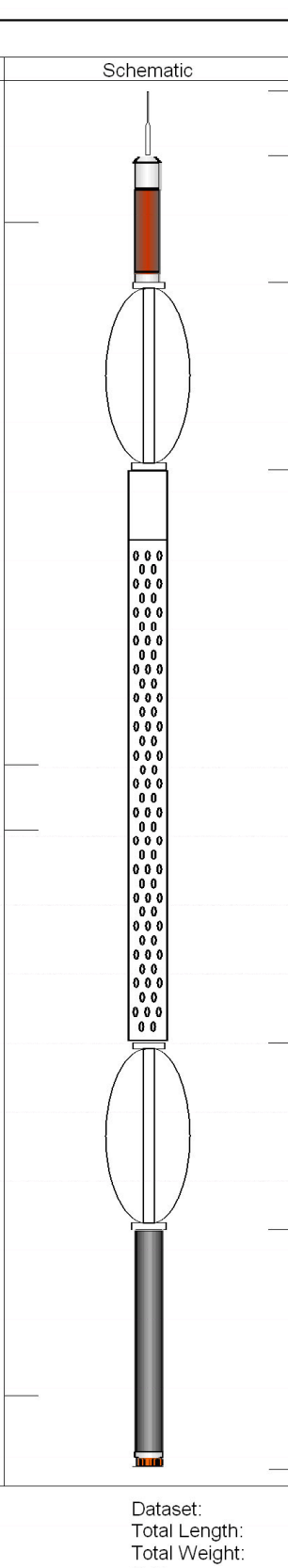
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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

WCR 49 AND WCR 37 SOUTH 1/4 WEST 3/4 SOUTH INTO
TOOL CALIBRATED IN 4.5" 11.6 LB AT SHOP ON 1-18-11
THANK YOU FOR USING P.S.I.



Sensor	Offset (ft)	Description	Len (ft)	OD (in)	Wt (lb)
		STNDRD Standard Cable Head	1.00	1.69	1.00
CCL	19.06	CCL-titan01 (01t)	1.92	2.75	
		SDSCENT Centralizer	2.88	2.75	20.00
WVF3 WVF5	10.79 9.79	CBL-Probe (050215)	8.75	2.75	93.00
		SDSCENT Centralizer	2.88	2.75	20.00
GR	1.13	GR-probe 2.75 (51013)	3.67	2.75	100.00

Dataset: segal 4-0-24.db: field/well/run1/pass4
Total Length: 21.08 ft
Total Weight: 234.00 lb
O.D. 2.75 in

Calibration Report

Database File: segal 4-0-24.db
Dataset Pathname: pass4
Dataset Creation: Wed Jan 19 09:29:21 2011 by Log Std Casedhole 08121

Gamma Ray Calibration Report

Serial Number:	51013	
Tool Model:	probe 2.75	
Performed:	Mon Sep 22 09:55:30 2008	
Calibrator Value:	1400.0	GAPI
Background Reading:	26.8	cps
Calibrator Reading:	1120.0	cps
Sensitivity:	0.9000	GAPI/cps

Cement Bond Log Calibration Report

Serial Number:	050215		
Tool Model:	Probe		
Performed:	Tue Jan 18 16:22:23 2011		
Depth:	0	ft	
Casing Diameter:	4.5	in	
	3' Spacing	5' Spacing	
Signal Zero:	0	0	mV
Calibrated Amplitude:	81.1961	81.1961	mV
Reading at Signal Zero:	-0.0202393	-0.000390625	V
Reading in Free Pipe:	2.49878	2.19114	V
Gain:	32.2332	37.05	
Offset:	0.652377	0.0144727	

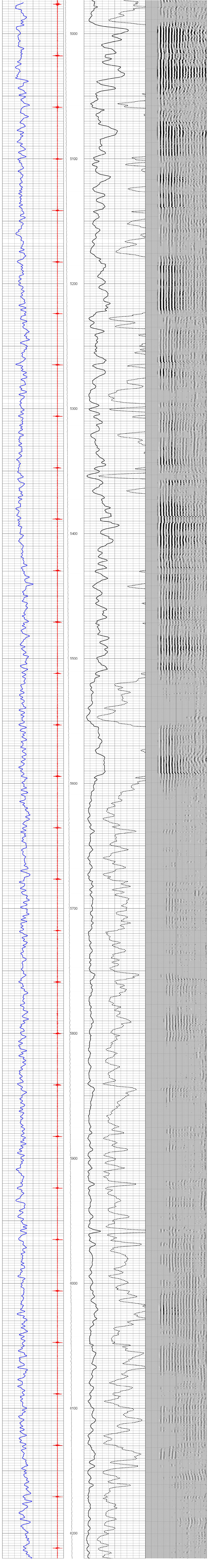
Database File: segal 4-0-24.db
Dataset Pathname: pass4
Presentation Format: cbl_dr
Dataset Creation: Wed Jan 19 09:29:21 2011 by Log Std Casedhole 08121
Charted by: Depth in Feet scaled 1:240

9 CCL -1	LTEN	0 Amplified Amplitude (mV) 20	200 Variable Density 1200
0 GR (GAPI) 200	0 (lb)1000	0 Amplitude (mV) 100	■ ▨ ░

9 CCL -1	LTEN	0 Amplified Amplitude (mV) 20	200 Variable Density 1200
0 GR (GAPI) 200	0 (lb)1000	0 Amplitude (mV) 100	■ ▨ ░

Database File: segal 4-0-24.db
Dataset Pathname: pass3
Presentation Format: cbl_dr
Dataset Creation: Wed Jan 19 08:49:06 2011 by Log Std Casedhole 08121
Charted by: Depth in Feet scaled 1:240

9 CCL -1	LTEN	0 Amplified Amplitude (mV) 20	200 Variable Density 1200
0 GR (GAPI) 200	0 (lb)1000	0 Amplitude (mV) 100	■ ▨ ░



6300
6400
6500
6600
6700
6800
6900
Marker Jnt
7000
7100
7200
7300
7400
7500
7600
7700
7800
Casing Collars
7900
Amplitude
Amplified Amplitude
Gamma Ray
Line Tension
9
CCL
-1
0
GR (GAPI)
200
LTEN
0
(lb)1000
0
Amplified Amplitude (mV)
20
0
Amplitude (mV)
100
200
Variable Density
1200