PIONEER

Pioneer Energy Services

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

Company ENCANA OIL & GAS
Well SCHEIDT STATE 3-16
Field WATTENBERG
County WELD
State COLORADO

Company ENCANA OIL & GAS
Well SCHEIDT STATE 3-16
Field WATTENBERG
County WELD State COLORADO

Location: API # : 05.123.11541
1320' FSL & 1320' FEL
CSE

SEC 16 TWP 1N RGE 67W

Other Services

Permanent Datum GL Elevation 5028'
Log Measured From KB ----------12'
Drilling Measured From KB

Elevation
K.B. 5040'
D.F. 5039'
G.L. 5028'

Date	23-NOV-2013		
Run Number	ONE		
Depth Driller	8263'		
Depth Logger	1555'		
Bottom Logged Interval	1555'		
Top Log Interval	18'		
Open Hole Size	N/A		
Type Fluid	WATER		
Density / Viscosity	8.33		
Max. Recorded Temp.	106° F		
Estimated Cement Top	635'		
Time Well Ready	AM		
Time Logger on Bottom	7:40		
Equipment Number	75		
Location	FORT MORGAN		
Recorded By	LEROY HOBBS		
Witnessed By	TOM FLYNN		

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	8-5/8"			
Prot. String				
Production String	4-1/2"			
Liner				

<<< Fold Here >>>

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.

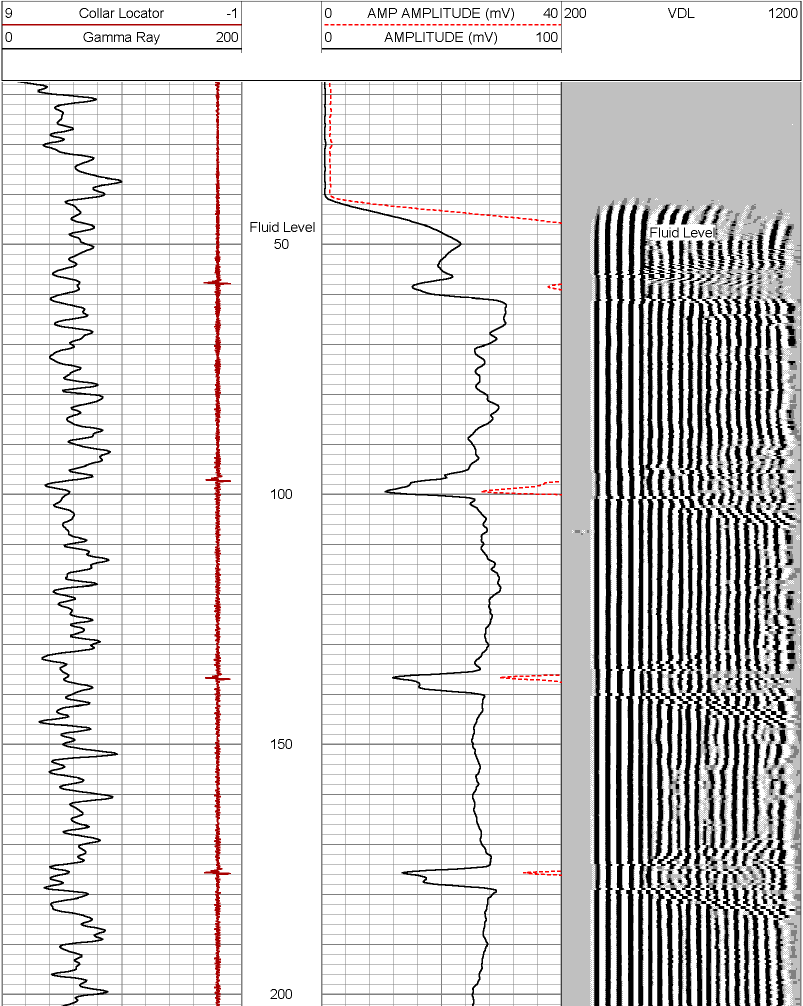
Comments

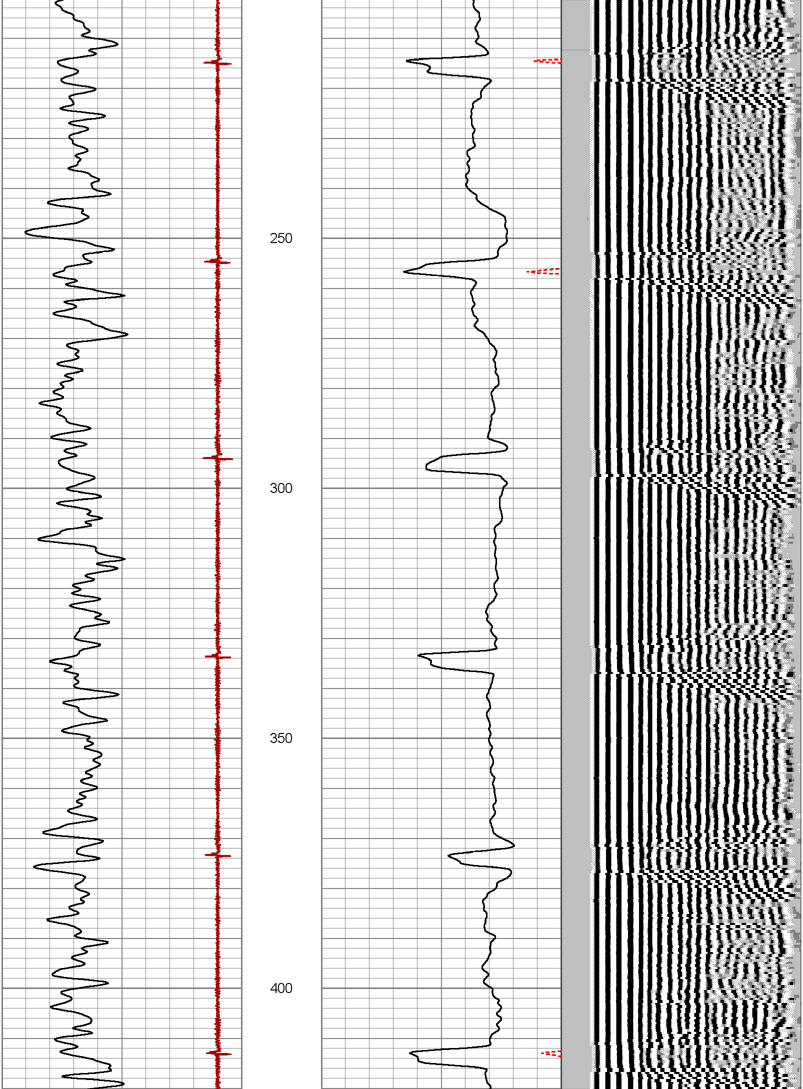
LOG IS CORRELATED TO A 12' K.B.

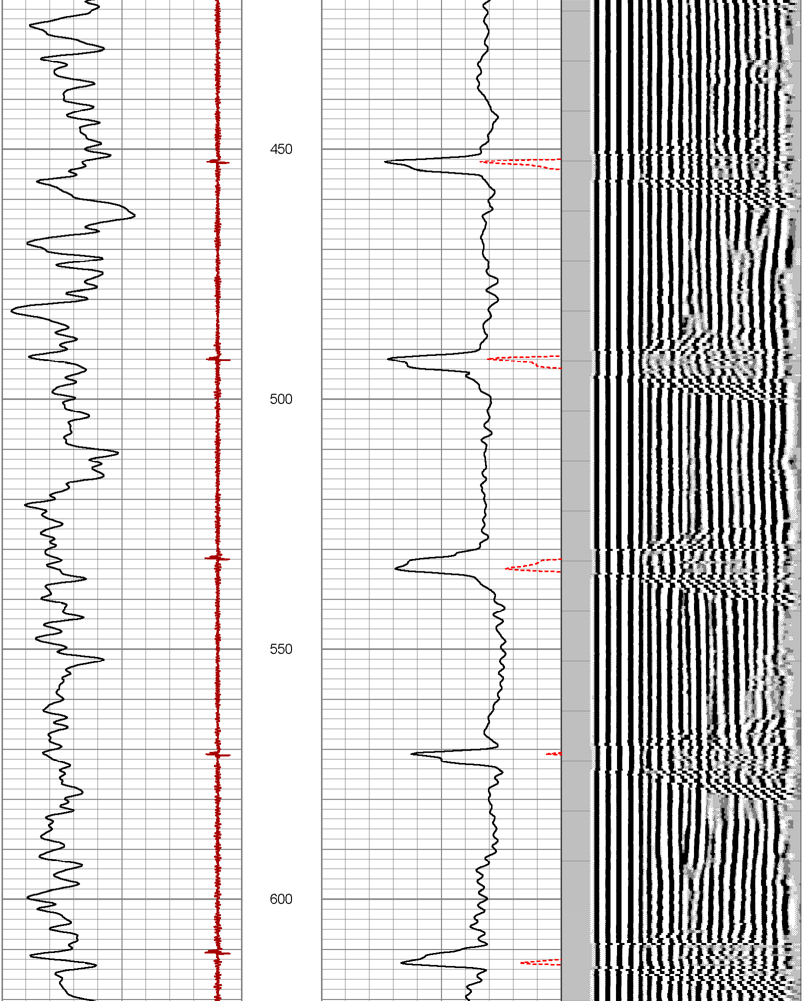
THANK YOU FOR USING PIONEER WIRELINE.

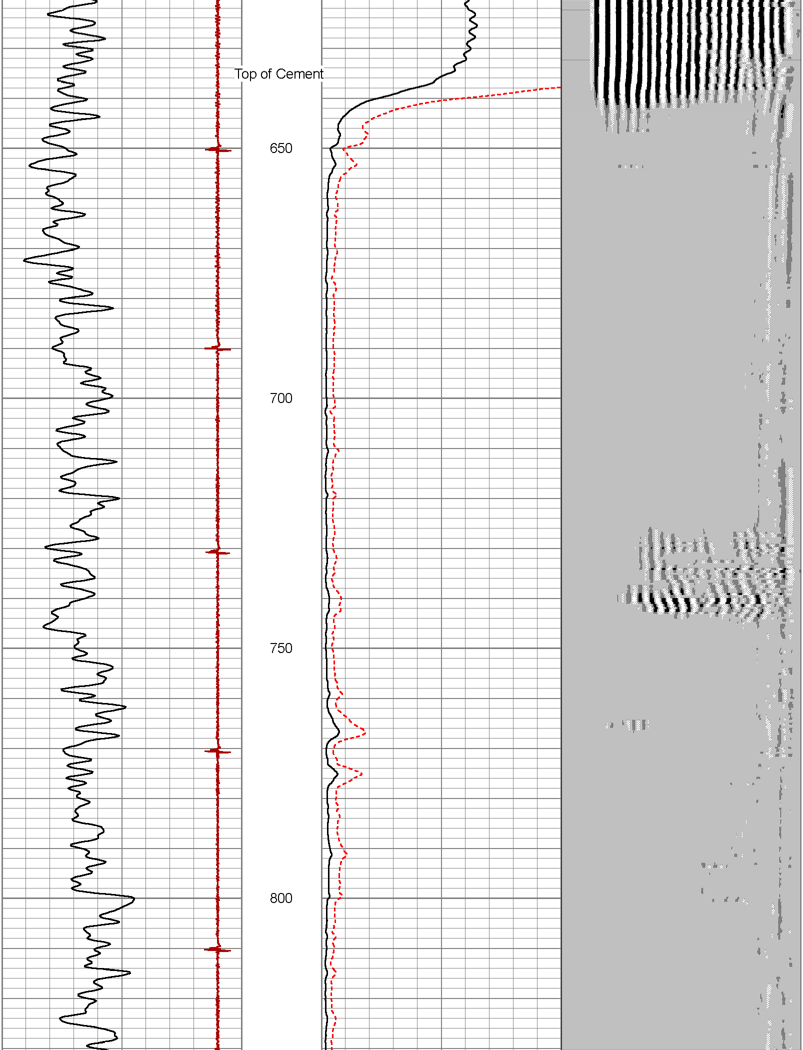
S.O. # 2-206007

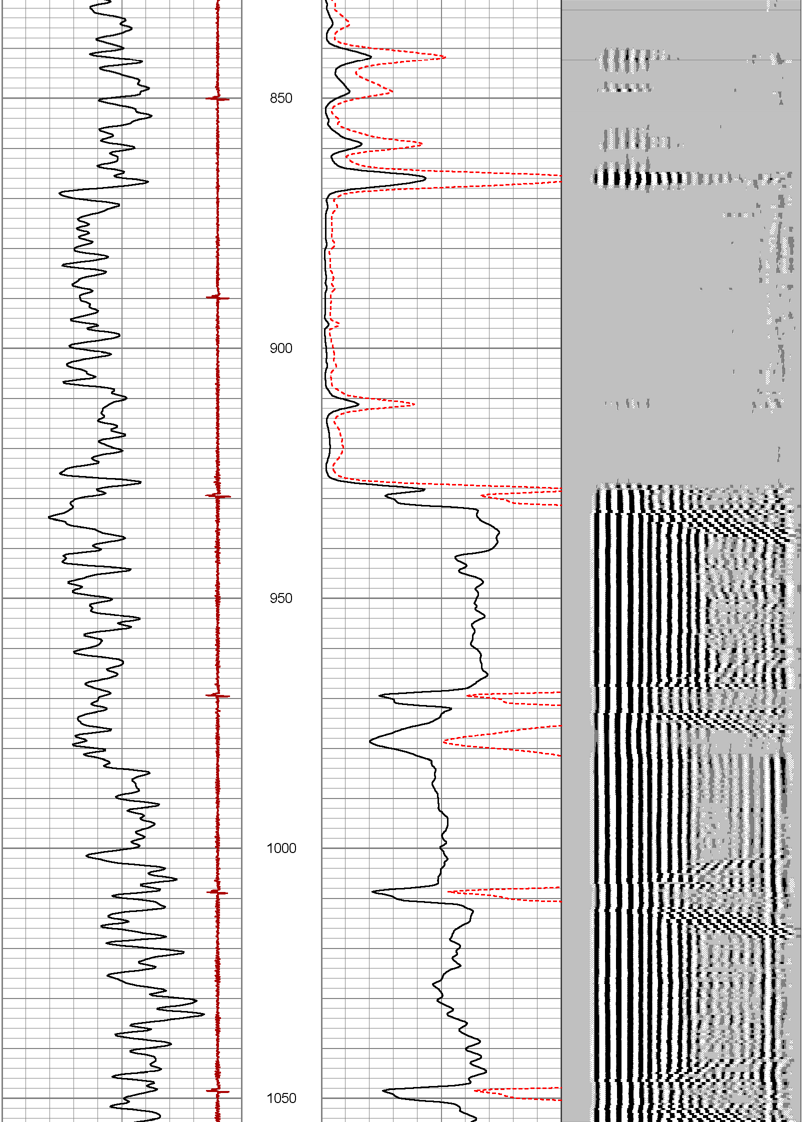
Database File:	scheidt-state_3_16.db
Dataset Pathname:	pass1
Presentation Format:	cbl_drs
Dataset Creation:	Sat Nov 23 08:07:47 2013 by Log 7.0 B1
Charted by:	Depth in Feet scaled 1:240

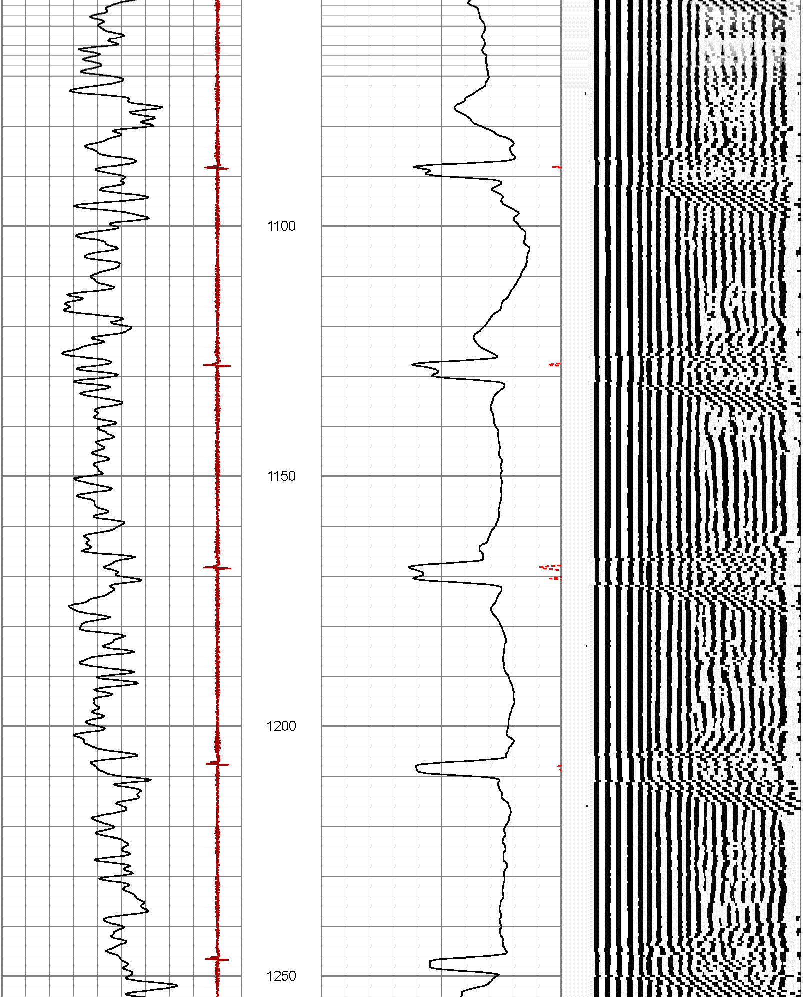


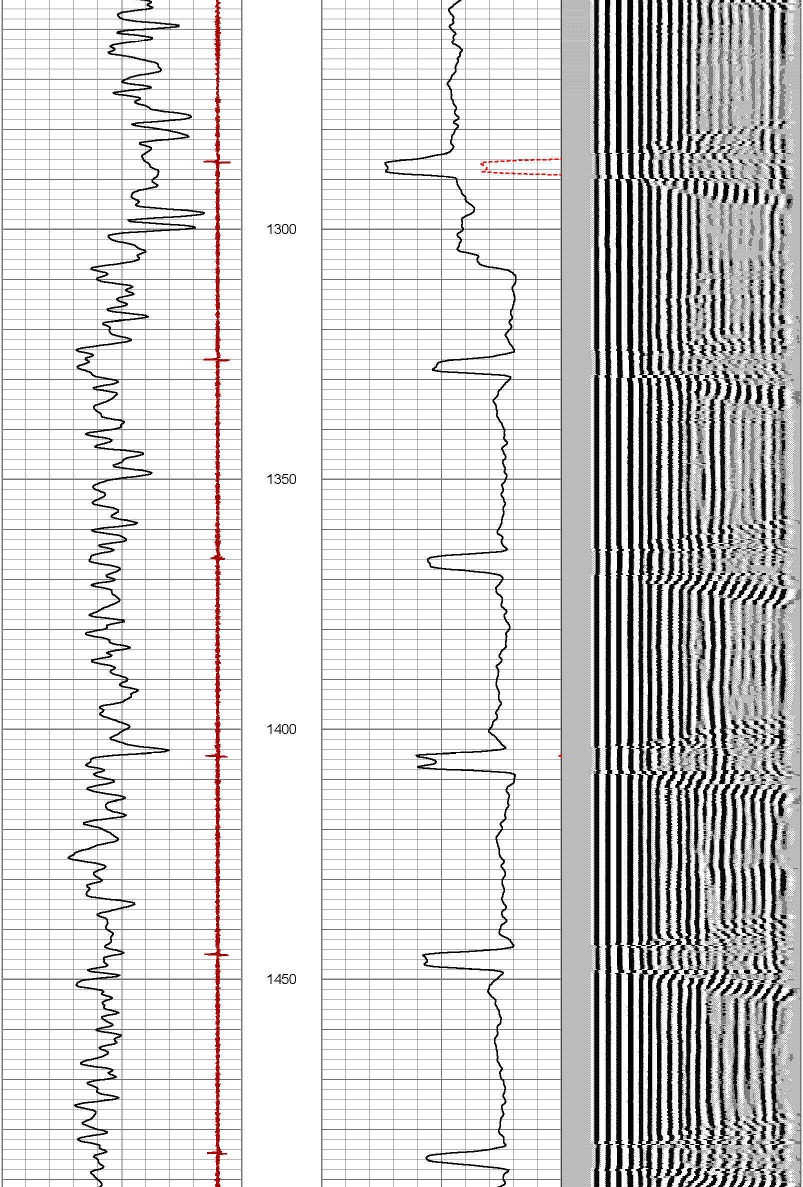


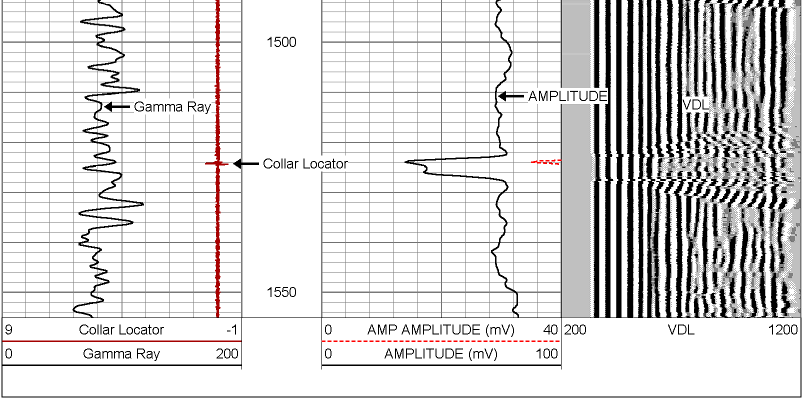












Calibration Report

Database File: scheidt-state_3_16.db
Dataset Pathname: pass1
Dataset Creation: Sat Nov 23 08:07:47 2013 by Log 7.0 B1

Gamma Ray Calibration Report

Serial Number: 011
Tool Model: Tek-Co
Performed: Mon Aug 05 20:30:02 2013

Calibrator Value: 1.0

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 2.0000 /cps

Segmented Cement Bond Log Calibration Report

Serial Number: T169t_001
Tool Model: T169Temp

Calibration Casing Diameter: 4.500 in
Calibration Depth: 1497.292 ft

Master Calibration, performed Sat Nov 23 08:06:42 2013:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.010	1.756	1.100	81.196	45.359	1.533
CAL	-0.010	-0.012				
5'	-0.010	2.480	1.100	81.196	32.169	1.414
SUM						
S1	-0.010	0.508	0.000	100.000	193.167	1.858
S2	-0.010	0.543	0.000	100.000	180.871	1.742
S3	-0.010	0.541	0.000	100.000	181.697	1.757
S4	-0.010	0.505	0.000	100.000	194.340	1.874
S5	-0.010	0.484	0.000	100.000	202.722	1.950
S6	-0.010	0.467	0.000	100.000	209.879	2.011
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	-0.010	-0.012	1.000	0.000

Air Zero Calibration, performed Wed Dec 31 17:00:00 1969:

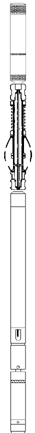
	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.000	0.000	0.000
5'	0.000	0.000	0.000
SUM			
S1	0.000	0.000	0.000
S2	0.000	0.000	0.000
S3	0.000	0.000	0.000
S4	0.000	0.000	0.000
S5	0.000	0.000	0.000
S6	0.000	0.000	0.000
S7			
S8			

Temperature Calibration Report

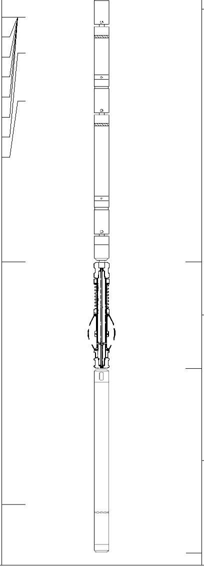
Serial Number: T169t_001
Tool Model: T169Temp
Performed: Tue Nov 10 07:40:57 2009

	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

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
WVFS2	11.12
WVFS3	11.12
WVFS4	11.12
WVFS5	11.12
WVFS6	11.12
WVF3FT	10.37
WVF5FT	9.37
WVFTEMP	6.03
GR	1.00



SCBLTEKSLIM-T169Temp (T169t_001) Tekco 1 11/16" 400 Deg F Sector with Temp	10.48	1.69	53.00
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

Dataset: scheidt-state_3_16.db: field/well/run1/pass1
Total Length: 20.39 ft
Total Weight: 100.00 lb
O.D. 1.69 in