J-W WIRELINE COMPANY

CEMENT BOND
GAMMA RAY VDL
COLLAR CORRELATION LOG

Company KERR-McGEE OIL AND GAS ONSHORE LP

Well STATE 8-16

Field WATTENBERG

County WELD State COLORADO

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Well STATE 8-16
Field WATTENBERG
County WELD
State COLORADO

Location: API # : 05-123-30937-0000

NE NW
380' FNL & 2503' FWL
SEC 16 TWP 1N RGE 68W

Other Services
NONE

Permanent Datum	GL	Elevation	5135
Log Measured From	KB		
Drilling Measured From	KB		

Elevation
K.B. 5152
D.F. 5151
G.L. 5135

Date	AUGUST 18, 2014		
Run Number	ONE		
Depth Driller	9075		
Depth Logger	1460		
Bottom Logged Interval	1459		
Top Log Interval	SURFACE		
Open Hole Size	7 7/8		
Type Fluid	WATER		
Density / Viscosity	---		
Max. Recorded Temp.	NOT RECORDED		
Estimated Cement Top	1040		
Time Well Ready	---		
Time Logger on Bottom	---		
Equipment Number	2400		
Location	STERLING CO.		
Recorded By	PHIL LOPEZ		
Witnessed By	RODRIGO VIERA		

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	8.63	24.00	SURFACE	1064
Prot. String				
Production String	4.50	11.60	SURFACE	9055
Liner				

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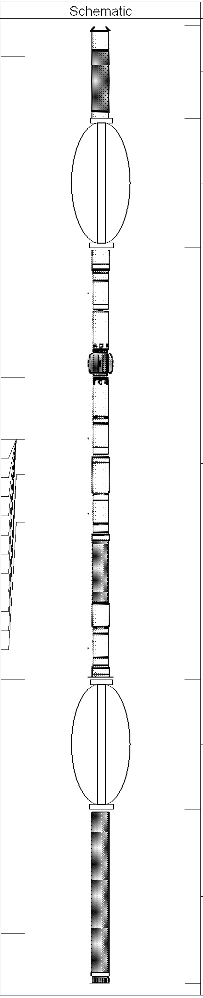
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

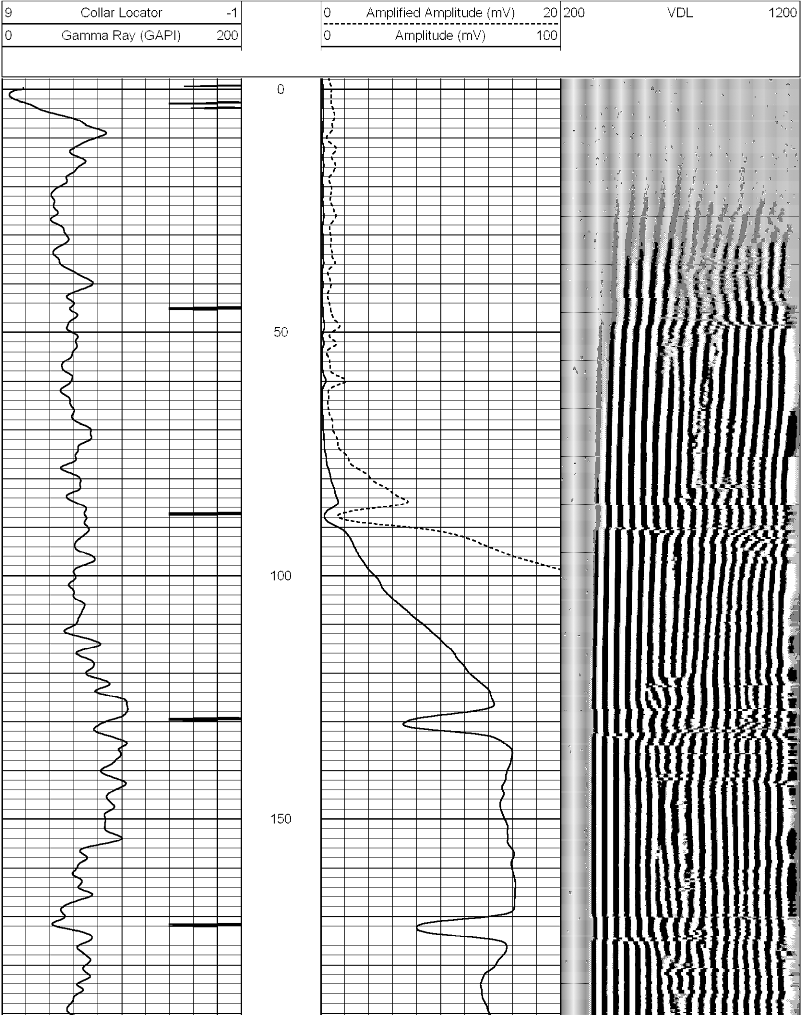
Comments

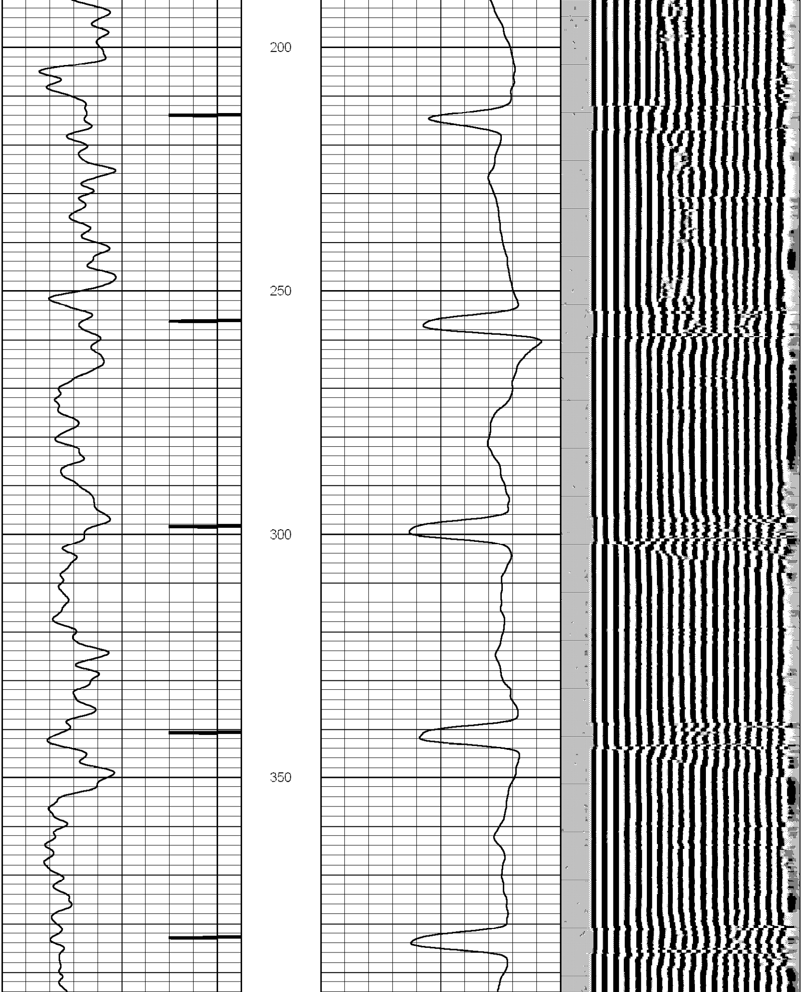
THANK YOU FOR CHOOSING J-W WIRELINE

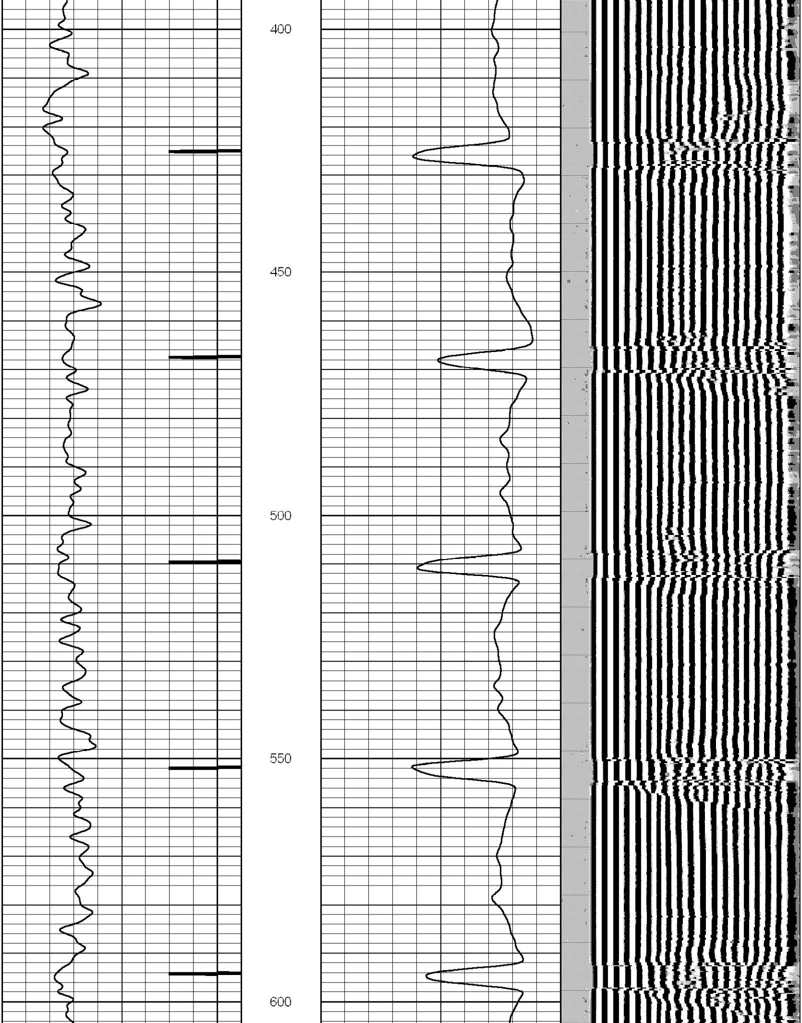
Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
CCL	19.57					
			CCL-275tekco (2.75TEKCO) 2 3/4 TEK CCL Earth Mag	1.96	2.75	20.00
			CENT-TEKCO (101)	2.73	2.75	10.00
TEMP	12.78					
WVFS1	11.49					
WVFS2	11.49		275CTEKSECWTWSLCANS-275RIB (123 2 3/4" (R.I.B.) TOOL 3FT, 5FT and 8EA RIB SIGNALS 400 DEG "F" @20K PSI With Sliding Cans For Pressure Ballance	9.13	2.75	102.00
WVFS3	11.49					
WVFS4	11.49					
WVFS5	11.49					
WVFS6	11.49					
WVFS7	11.49					
WVFS8	11.49					
WVF3FT	10.74					
WVFCAL	10.74					
WVFSYNC	10.74					
WVF5FT	9.74					
WVFTEMP	6.41					
			CENT-TEKCO (101)	2.73	2.75	10.00
			GR-TEKCO (101sgr)	3.68	2.75	30.00
GR	1.06					

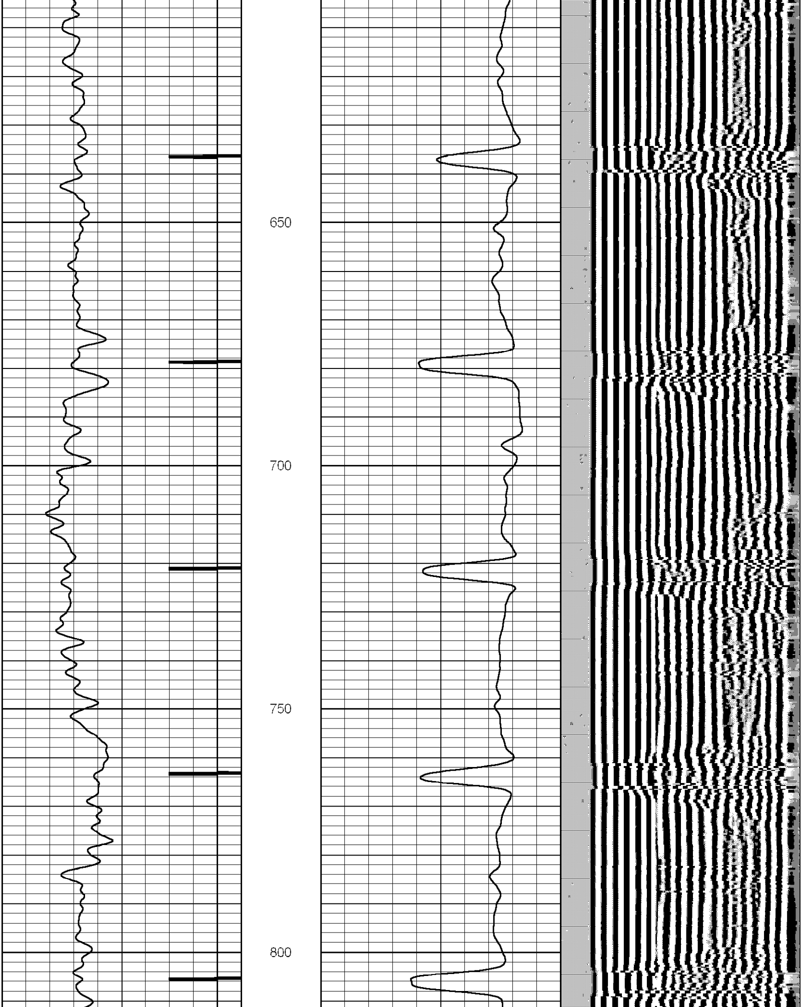
Dataset:	state 8-16.db: field/well/run1/pass8
Total Length:	20.22 ft
Total Weight:	172.00 lb
O.D.	2.75 in

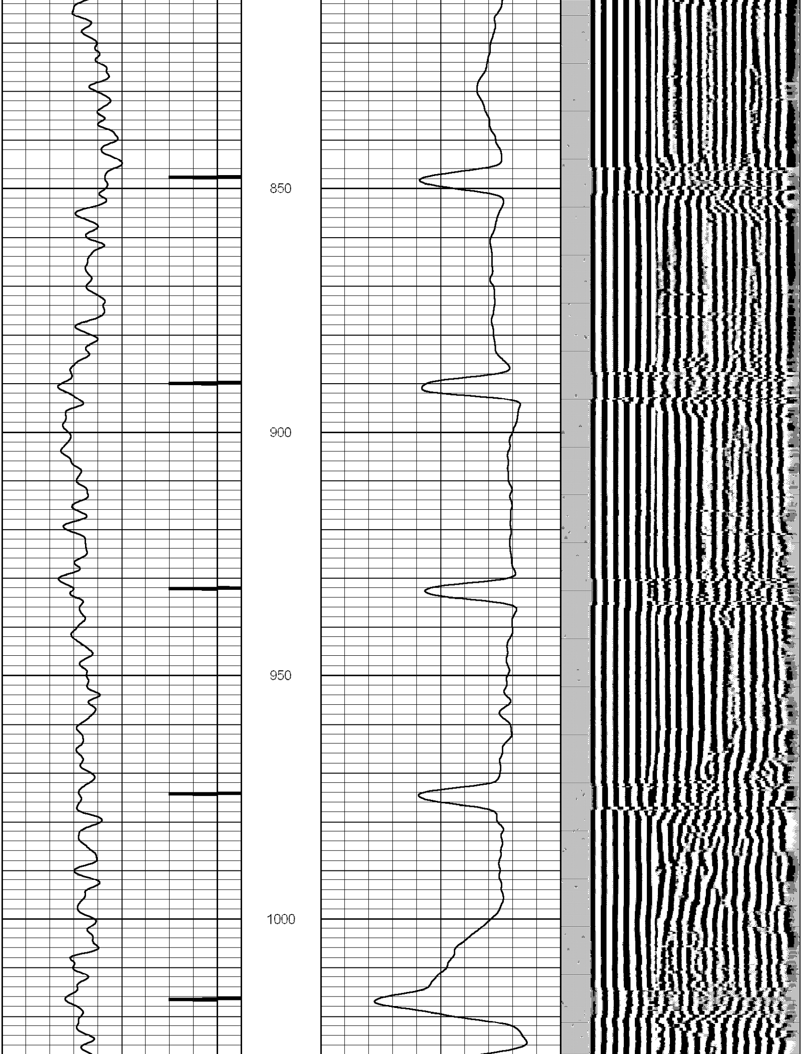
Database File: state 8-16.db
Dataset Pathname: pass8
Presentation Format: scbl_sr
Dataset Creation: Mon Aug 18 12:52:27 2014 by Log SCH 111116
Charted by: Depth in Feet scaled 1:240

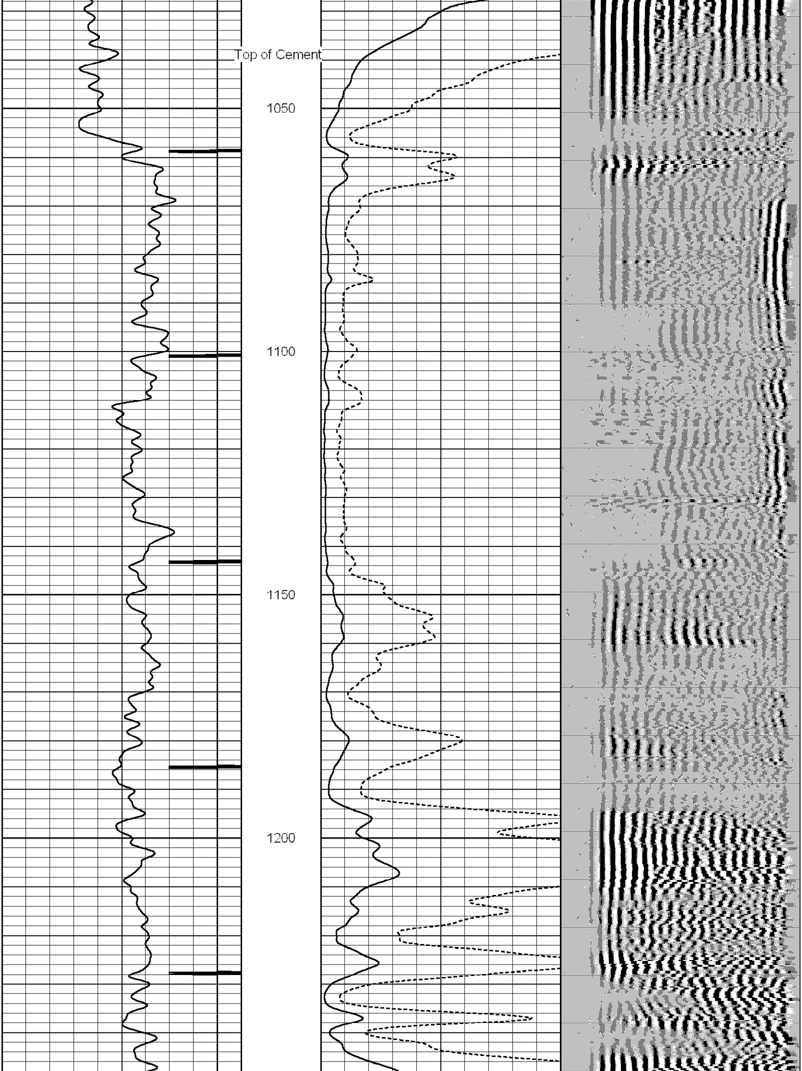


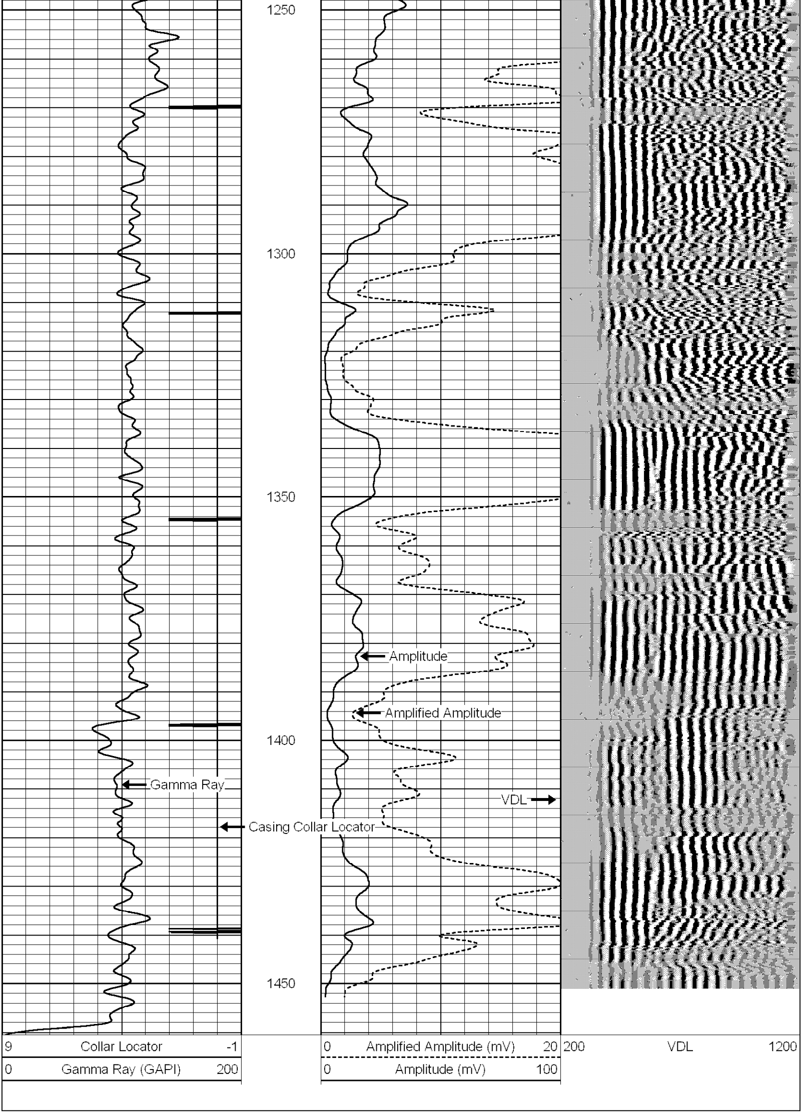












Calibration Report

Database File:	state 8-16.db
Dataset Pathname:	pass8
Dataset Creation:	Mon Aug 18 12:52:27 2014 by Log SCH 111116

Gamma Ray Calibration Report

Serial Number:	101sgr	
Tool Model:	TEKCO	
Performed:	Wed Oct 16 08:18:28 2013	
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:	1234	
Tool Model:	275RIB	
Calibration Casing Diameter:	4.500	in
Calibration Depth:	880.383	ft

Master Calibration, performed Mon Aug 18 12:47:39 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.000	1.621	2.000	81.196	48.854	2.000
CAL	0.000	1.512				
5'	0.000	1.315	2.000	81.196	60.241	2.000
SUM						
S1	0.000	2.174	0.000	81.196	37.342	0.000
S2	0.000	2.050	0.000	81.196	39.614	0.000
S3	0.000	2.096	0.000	81.196	38.745	0.000
S4	0.000	2.223	0.000	81.196	36.528	0.000
S5	0.000	2.106	0.000	81.196	38.549	0.000
S6	0.000	2.060	0.000	81.196	39.411	0.000
S7	0.000	2.214	0.000	81.196	36.667	0.000
S8	0.000	2.153	0.000	81.196	37.711	0.000

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	0.000	1.512	1.000	0.000

Air Zero Calibration, performed Mon Jul 28 07:16:49 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:	1234	
Tool Model:	275RIB	
Performed:	Thu Aug 07 07:15:42 2014	
	Reference	Reading
Low Reference:	75.00 degF	250.00 usec
High Reference:	400.00 degF	1282.00usec
Gain:	0.31	
Offset:	-3.73	
Delta Spacing	1	