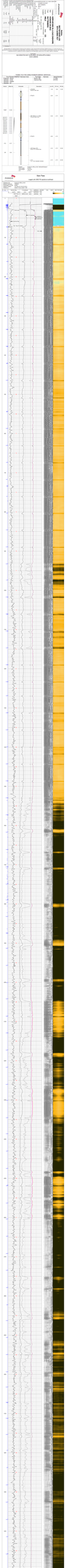
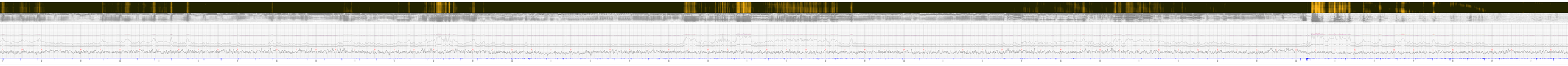
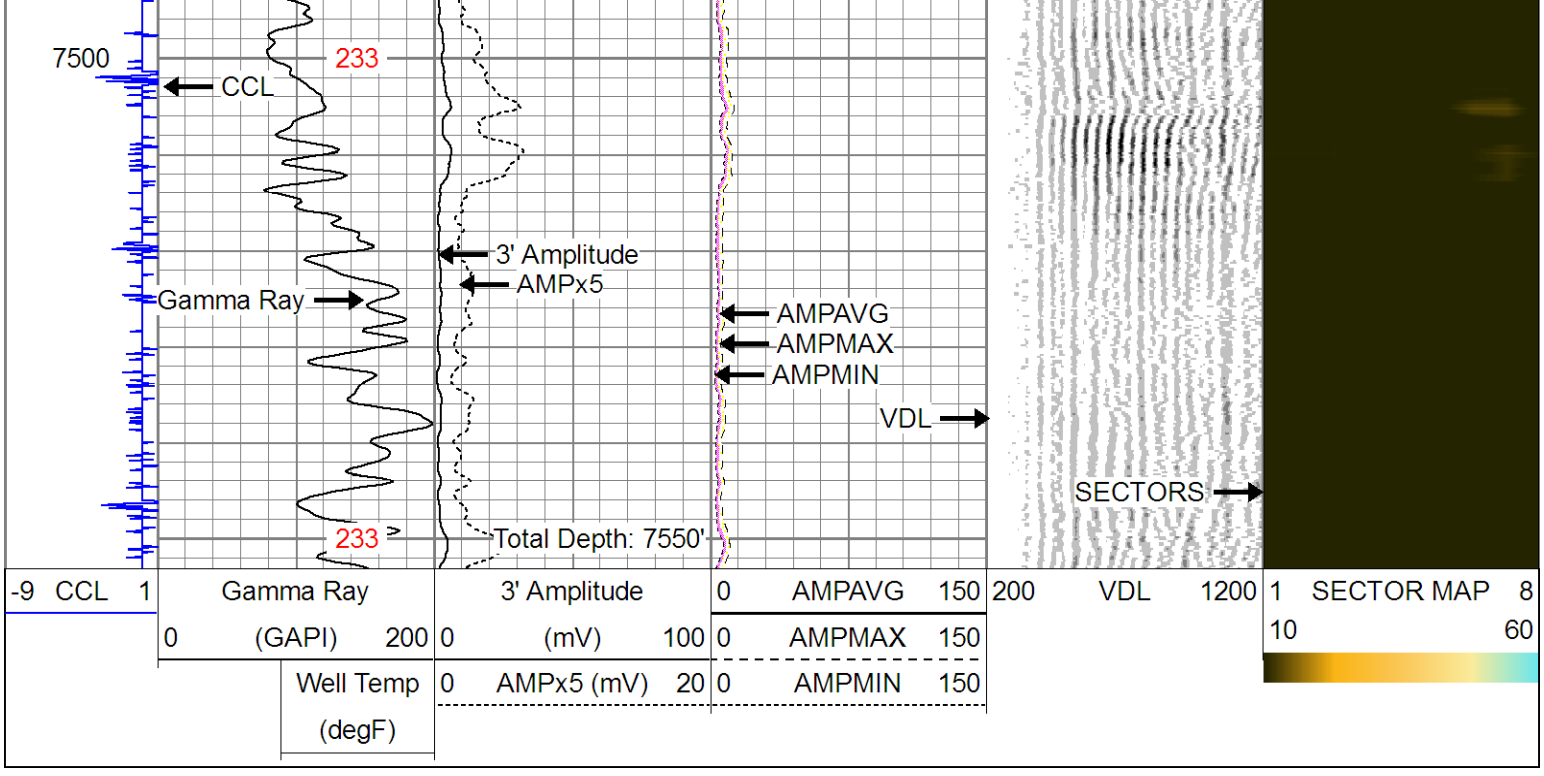


NO DIRECTIONAL SURVEY IS REQUIRED
OTHER SERVICES

Triple Combo
Array Induction Imager Tool
Three Detector Lithology Density Compensated Neutron
Gamma Ray
Caliper





Calibration Report

Database File: howard 4n-29hz_rbl.db
Dataset Pathname: rbl/pass1
Dataset Creation: Thu Sep 04 13:12:24 2014 by Log SCH 120126

Gamma Ray Calibration Report

Type / Serial: Probe / 070155

SHOP CALIBRATION — Sat Aug 30 06:36:10 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: C3-111206
Tool Model: Probe

Calibration Casing Diameter: 7.000 in
Calibration Depth: 0.000 ft

Master Calibration, performed Mon Sep 01 04:51:19 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.000	0.768	-0.020	62.165	75.000	-0.300
CAL	0.000	0.754				
5'	0.000	0.679	-0.020	62.165	91.642	-0.020
SUM						
S1	0.000	0.753	0.000	100.000	132.724	0.000
S2	0.000	0.768	0.000	100.000	130.263	0.000
S3	0.000	0.767	0.000	100.000	130.417	0.000
S4	0.000	0.756	0.000	100.000	132.274	0.000
S5	0.000	0.745	0.000	100.000	134.273	0.000
S6	0.000	0.732	0.000	100.000	136.581	0.000
S7	0.000	0.734	0.000	100.000	136.277	0.000
S8	0.000	0.721	0.000	100.000	138.770	0.000

Internal Reference Calibration, performed Fri Aug 22 11:58:10 2014:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.000	0.754	1.000	0.000

Air Zero Calibration, performed Sat Aug 30 06:29:19 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

PIONEER
Pioneer Energy Services

Company KERR-MCGEE OIL & GAS ONSHORE
Well HOWARD 4N-29HZ
Field WATTENBERG
County WELD
State CO