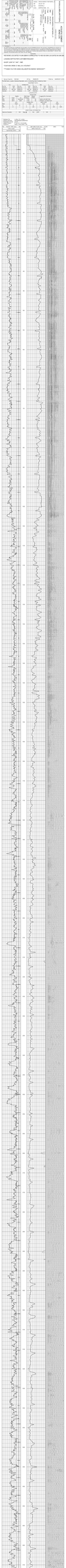

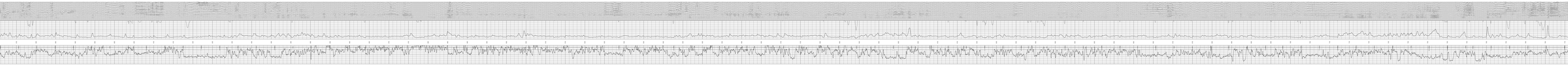

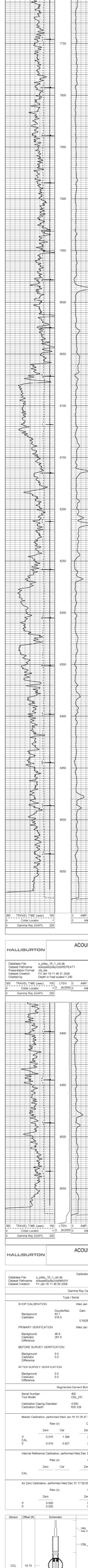

HALLIBURTON

ACOUSTIC CEMENT BOND LOG

REPEAT LOG SECTION

5" x 100'

Database File: lc_pbtw_16_1_cbl.db
Dataset Pathname: lc/pbtw/logs/raw/REPEAT1
Presentation Format: cbl_pb
Dataset Creation: Fri Jan 18 11:46:31 2008
Charted by: Depth in Feet scaled 1:1200

MD TRAVEL TIME (usec) 150
0 Caliper (in) 20
Collar Locator -1.5
0 Gamma Ray (GAPI) 200
LTEN 0
(lb2000)
0 AMP AMPLITUDE (mV) 10,200
0 AMPLITUDE (mV) 100
MSG 1200

HALLIBURTON

ACOUSTIC CEMENT BOND LOG

REPEAT LOG SECTION

5" x 100'

Calibration Report

Database File: lc_pbtw_16_1_cbl.db
Dataset Pathname: lc/pbtw/pbtw/logs/MAIN1
Dataset Creation: Fri Jan 18 11:46:59 2008

Gamma Ray Calibration Report

Type r Serial: CBL_DC r 400

SHOP CALIBRATION — Wed Jan 16 14:59:04 2008

	Counts/Sec	Gain	Offset	API	Units
Background	83.7				GR
Calibrator	516.5				GR
		0.5428			GAPI/cps

PRIMARY VERIFICATION — Wed Jan 16 15:00:37 2008

Background	46.8			GR
Calibrator	281.8			GR
Difference		234.8		GAPI

BEFORE SURVEY VERIFICATION

Background	0.0			GR
Calibrator	0.0			GR
Difference		0.0		GAPI

AFTER SURVEY VERIFICATION

Background	0.0			GR
Calibrator	0.0			GR
Difference		0.0		GAPI

Regenerated Cement Bond Log Calibration Report

Serial Number: 400
Tool Model: CBL_DC

Calibration Casing Diameter:	4.500	in
Calibration Depth:	600.428	ft

Master Calibration, performed Wed Jan 16 15:39:47 2008

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.015	1.368	2.000	81.190	58.546	1.121
CAL						
5'	0.019	0.821	2.000	81.196	98.789	0.086

Internal Reference Calibration, performed Wed Dec 31 17:00:00 1969

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL						

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

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			HRL HRL Cable Head	1.92	1.44	10.00
			CBL_DC	1.92	3.25	5.00
CCL	18.79					
GR	16.62					
			CBT_CBL_DC-CBL_DC (400) 1x Type 3 1/4" Standard CBL TOOL	16.08	3.25	200.00
WVFSFT	10.38					
WVFSFT	9.58					
WVFSYNC	4.29					
			CBLWLINE	4.29	3.25	
LLMTEN	0.00					

Dataset: lc_pbtw_16_1_cbl.db lc/lc/pbtw/logs/raw/REPEAT2
Total Length: 24.21 ft
Total Weight: 215.00 lb
O.D: 3.25 in

Company	ORION ENERGY PARTNERS, L.P.
Well	JOLLEY 16-1
Field	KOKOPELLI
County	GARFIELD
State	CO

HALLIBURTON — ACOUSTIC CEMENT BOND LOG