

Survey type: Zero-Offset VSP
Company: Lamont Doherty
Well: Expedition 340T, Site U1309D
Field: Atlantis Massif
Country: USA
Run: 3 & 5
Date: 23/24-Feb-2012

Recorded by: C. Furman

Witnessed by: A. Slagle, G. Guerrin

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Introduction

This was a Vertical Seismic Profile Zero Offset (VSP-ZO) survey conducted from the JOIDES Resolution during IODP Expedition 340T on 23 & 24 FEB 2012. Previous seismic data had been recorded in 2005 during Expedition 305, but weather had prevented completion of the planned survey. The data collected during this expedition were acquired during two sessions due to time limitations.

Survey Results: Zero Offset VSP

The first day of seismic surveying produced good stacks at some of the critical upper intervals. The second day of surveying produced the majority of the data, but there was a high-amplitude noise interfering with the signal that could not be eliminated during acquisition. The majority of the data from this survey will have to be processed to extract the actual seismic signal. The difference between the noise level on the two days of acquisition seems to be related to the ship, most probably noise associated with the station-keeping thrusters and other critical systems, although the exact cause could not be pinpointed.

Recommendations and Conclusion

Seismic stations were recorded at all planned depths, but the vast majority of those stations suffered from high-amplitude (as compared to seismic signals) noise. This will have to be filtered during post-acquisition processing that could not be done on the rig.

Well Information

Company	Lamont Doherty
Well	Expedition 340T, Site U1309D
Field	Atlantis Massif
Country	USA
State	Atlantic
Logging Date	21-Feb-2012
Run Number	3
Service Order	
Well Head (Latitude)	W 42* 7.1131'
Well Head (Longitude)	N 30* 10.1195'
Well Head (X Coordinate)	0.0 UTM
Well Head (Y Coordinate)	0.0 UTM
Total Depth - Driller	3100.0 m
Total Depth - Logger	3100.0 m
Maximum Hole Deviation	0.0 deg
Azimuth of Maximum Deviation	
Program Version	19C0-187
Bit Size	9.875 in
Recorded by	C. Furman
Witnessed by	A. Slagle, G. Guerrin

Elevation Information

Permanent Datum	Mean Sea Level
Elevation Permanent Datum	0.0 m
Above Permanent Datum	11.0 m
Drilling Measured From	Drill Floor
Derrick Floor	11.0 m
Ground Level	-4494.0 m
Kelly Bush	11.0 m
Log Measured From	Drill Floor
Elevation Log Zero	11.0 m

Depth Corrected Information

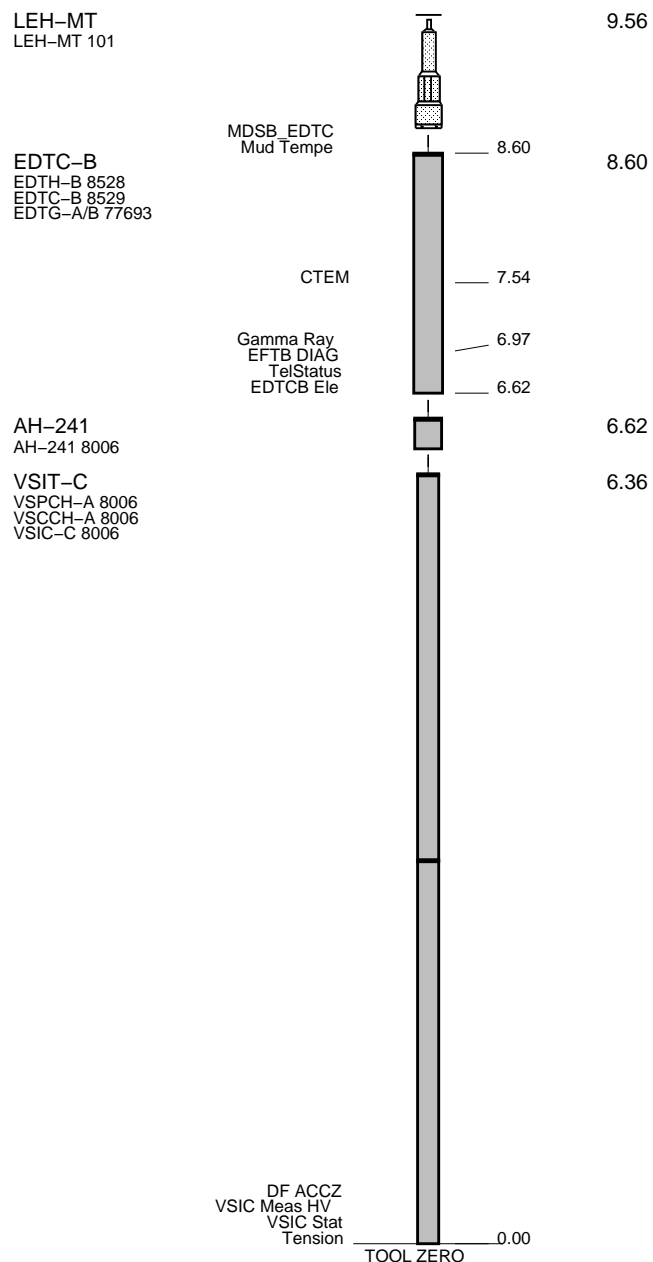
Water Velocity	1500.0 m/s
Seismic Reference Datum	0.0 m

Remarks

Hole U1309D was originally drilled during ODP Leg 304 in 2004 and deepened during Leg 305 in 2005.
This is the first re-entry since deepening and the first descent is being made without a pipe trip
in order to preserve temperature data A shut-in temperature profile is one of the main objectives of this run.
The purpose of this expedition is to acquire additional logging information that could not be acquired during Exp 304/305.

Production String	(in)			Well Schematic	(m)			Casing String
	OD	ID	MD		MD	OD	ID	
Kelly Bushing Elevation			0.0					
Derrick Floor Elevation			0.0					
Mean Sea Level			11.0					
Seismic Gun depth below MSL			7.0					
					1650.0			Top of Re-entry Cone
					1656.0	9.875		Sea Bed
					1676.0	13.375		Casing Shoe
					1711.0	8.000		Drill Pipe (Driller's Depth) 1711mbrf for Triple-Combo 1759mbrf for VSI & MSS 2356mbrf for DSI
					3071.5	9.875		Driller's Total Depth

DOWNHOLE EQUIPMENT



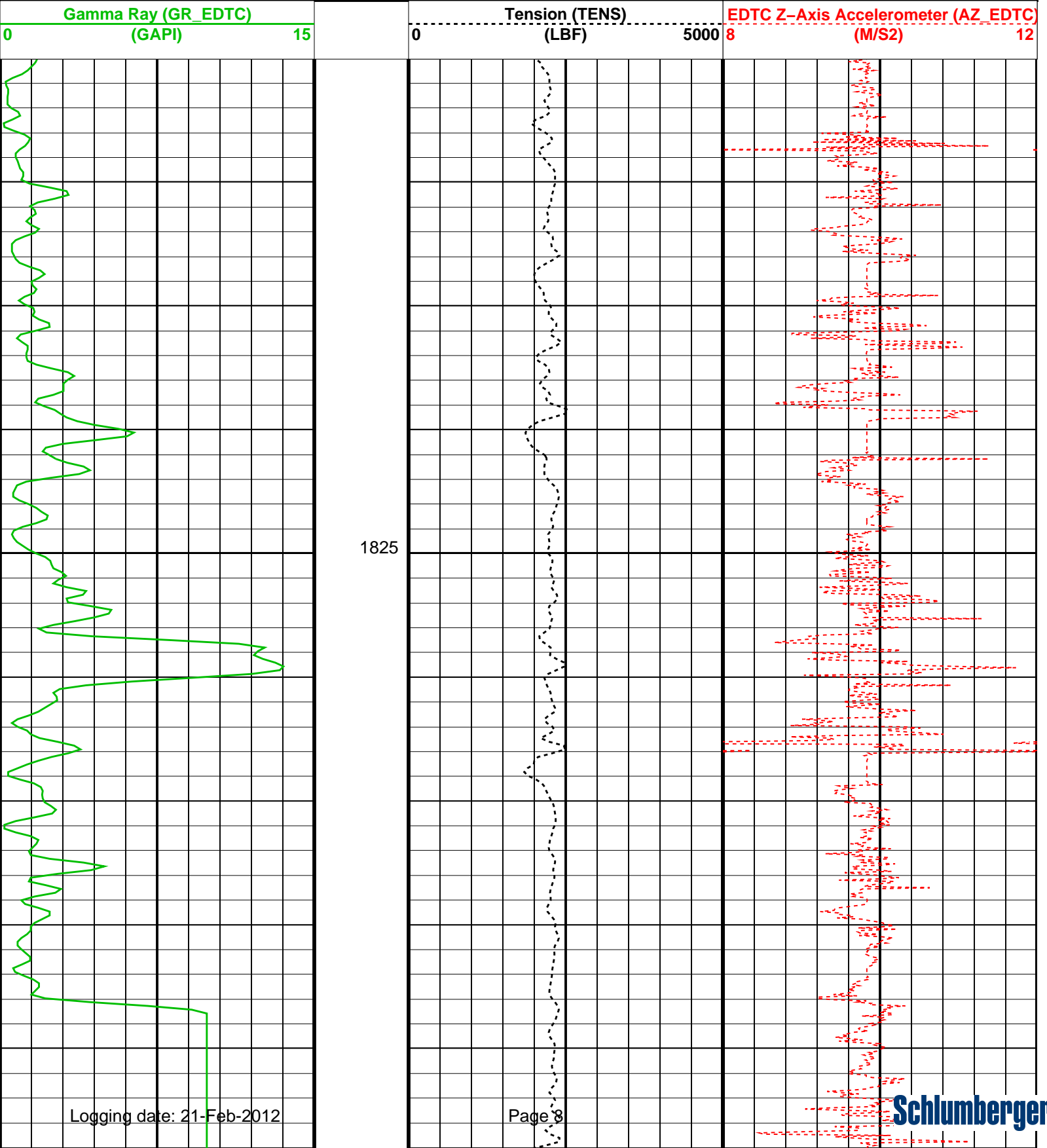
MAXIMUM STRING DIAMETER 3.63 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN METERS

Output DLIS Files

DEFAULT VSIT_016LUP FN:15 PRODUCER 23-Feb-2012 13:54 1850.1 M 1805.0 M

OP System Version: 19C0-187

VSIT-C 19C0-187 EDTC-B SKK-5169-EDTCB



Client: Lamont Doherty	1850	Field: Atlantis Massif	Well: Expedition 340T, Site U1309D
Gamma Ray (GR_EDTC) (GAPI)	0	Tension (TENS) (LBF)	EDTC Z-Axis Accelerometer (AZ_EDTC) (M/S ²)
15	0	5000	8 12
Format: CORRELATION_EDTCB		Vertical Scale: 1:200	Graphics File Created: 23-Feb-2012 13:54
OP System Version: 19C0-187			
VSIT-C	19C0-187	EDTC-B	SKK-5169-EDTCB
Output DLIS Files			
DEFAULT	VSIT_016LUP	FN:15	PRODUCER 23-Feb-2012 13:54

Well Information

Well Type	Vertical, Drilled during EXP304, deepened during EXP305
Rig / Platform Type	DP Drill Ship
Well Reference Azimuth (Magnetic, True, or Grid North)	True North

Elevation Information

Water Depth	1656m
Water Temperature	22.5 degC (surface) / 3.8 degC (sea bed)
Water Salinity	Not Measured
Weathered Zone Depth	-
Elevation Depth	Referenced to MSL

Sea Condition

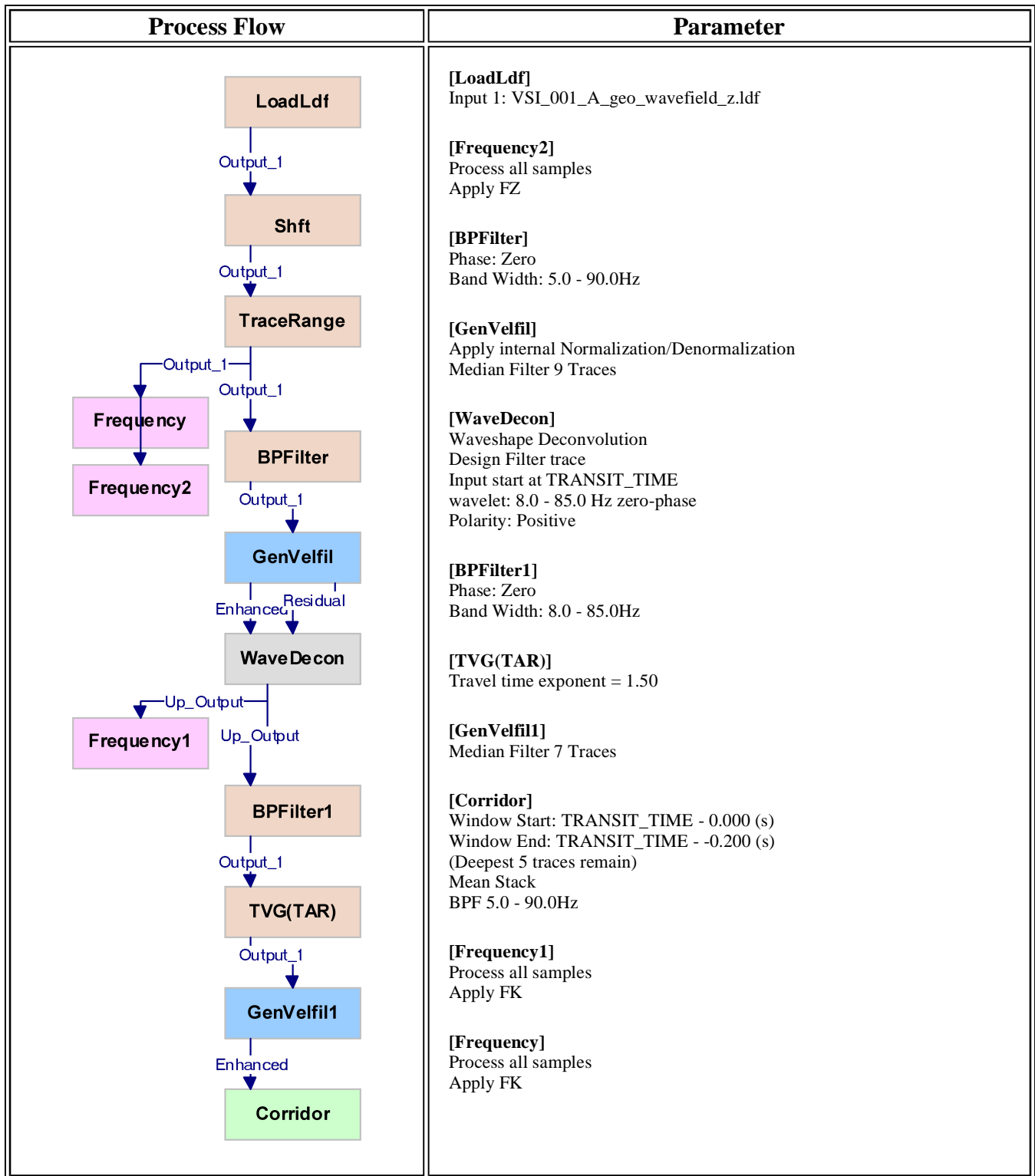
Sea Condition	Moderate
Wave Height	2m
High Tide Level	-
High Tide Time	-
Low Tide Level	-
Low Tide Time	-

Velocity Information

Weathered Velocity	-
Elevation Velocity	-

Downhole Equipment Information

Tool Type	VSI – Single Shuttle Configuration
Surface Equipment	2 x GI Gun (250 in ³ @ 2000 PSI)
Combined Tool	LEHMT-EDTCB-VSI
Number of Shuttles	1
Nominal Receiver Spacing	N/A
Gimbaled (Y/N)	Y
Downhole Geophone Type	GAC-D
Sensitivity	0.54
Natural Frequency	20.0
Damping Factor	5.74
DC Resistance	1500
Receiver #1	VSIS-P 8006 (used at 1806m only, then damaged)
Receiver #2	VSIS-P 8008 (used for all other stations)



[LoadLdf]

FileLoadLdf Parameters

Input 1: VSI_001_A_geo_wavfield_z.ldf

[Shft]

Shift Parameters

Shift: + TT_SRD to TT Difference - 0 s

Update selected headers

[TraceRange]

Trace Range Set Manual Parameters

Trace Range Set Parameters

Remove Bad Trace

[Frequency2]

Spectral Analyser Parameters

Process all samples

Depth/Offset header = CABLE_LENGTH

Output is Frequency Domain

Compute Amplitude spectrum in dB

[BPFfilter]

BPF Parameters

Butterworth Filter, Zero Phase

Characteristic: 5.000 Hz to 90.000 Hz Order 3

[GenVelFil]

Mean/Median Generalized Velocity Filter Parameters

Align events using times of TRANSIT_TIME x 1.000

Compute both enhanced and residual output

Apply internal Normalization/Denormalization based on RMS of time window

From TRANSIT_TIME - 0.020 s

Windown length = 0.500 s

Median Stacking

Stacking window (traces): 9

Stacking window (samples): 1

Source and receiver coordinates Parameters

Source Offset: SOURCE_LINE_POSITION_RHO

Source Depth: SOURCE_LINE_POSITION_Z

Receiver Offset: RECEIVER_LINE_POSITION_RHO

Receiver Depth: RECEIVER_LINE_POSITION_Z

[WaveDecon]

Waveshaping deconvolution Parameters

Design Filter trace by trace

Filter input start at TRANSIT_TIME - 0.080 s

Filter input window: 1.000 s

Filter Length is filter input window

Desired wavelet created by filtered unit impulse from 8.000 Hz to 85.000 Hz , zero-phase

Positive wavelet polarity

Wavelet delay time = Filter Length / 2

White noise (%): 5.000

Waveshaping optimization Parameters

[BPFfilter1]

BPF Parameters

Butterworth Filter, Zero Phase

Characteristic: 8.000 Hz to 85.000 Hz Order 3

[TVG(TAR)]

Time-Varying Gain Parameters

Window start at TRANSIT_TIME - 0.000000
Window length = 0.000000
Travel time exponent = 1.500000
Exponential Weighting = 0.000000

[GenVelfill]

Mean/Median Generalized Velocity Filter Parameters
Align events using times of TRANSIT_TIME x -1.000
Compute both enhanced and residual output
Median Stacking
Stacking window (traces): 7
Stacking window (samples): 1
Source and receiver coordinates Parameters
Source Offset: SOURCE_LINE_POSITION_RHO
Source Depth: SOURCE_LINE_POSITION_Z
Receiver Offset: RECEIVER_LINE_POSITION_RHO
Receiver Depth: RECEIVER_LINE_POSITION_Z

[Corridor]

Corridor stack Parameters
Mute before TRANSIT_TIME - 0 s
Mute after TRANSIT_TIME - -0.200 s
All traces except the deepest (traces): 5
Depth header: RECEIVER_POSITION_Z
Mean stack
Apply +TT with TRANSIT_TIME
Replicate corridor stack x 10
Apply BPF on resulting corridor stack
BPF Parameters
Butterworth Filter, Zero Phase
Characteristic: 5.000 Hz to 90.000 Hz Order 3

[Frequency1]

Spectral Analyser Parameters
Process all samples
Depth/Offset header = CABLE_LENGTH
Output is FK Domain
Compute Amplitude spectrum in dB

[Frequency]

Spectral Analyser Parameters
Process all samples
Depth/Offset header = CABLE_LENGTH
Output is FK Domain
Compute Amplitude spectrum in dB

VSP

General Information

Survey Type	Zero Offset VSP
Surface Recording Length	500.0 ms
Surface Sampling Rate	1.0 ms
Downhole Recording Length	3000.0 ms
Downhole Sampling Rate	1.0 ms
Top of Survey	1656.0 m
Bottom of Survey	3016.0 m
Number of Shots	659
Number of Downhole Traces	659
Number of Downhole Traces used for Processing	79

Stack Summary Listing (1/3) from VSI_001_A_geo_wavelfield_z.ldb

Stack Number	Measured Depth [m]	True Vertical Depth [m]	Measured Time [s]	One-way Vertical Time [s]	Two-way Vertical Time [s]	Interval Velocity [m/s]	Average Velocity [m/s]	RMS Velocity [m/s]
	0	0	0	0	0			
						13354.1		
13	1656.0	1645.0	0.1173	0.1232	0.2464		13354.1	13354.1
						-3240.6		
12	1696.0	1685.0	0.1049	0.1108	0.2217		15201.6	14036.2
						46.2		
11	1742.0	1731.0	1.1025	1.1078	2.2155		1562.6	4440.2
						8731.9		
10	1756.0	1745.0	1.1041	1.1094	2.2187		1572.9	4449.4
						9718.3		
9	1782.0	1771.0	1.1068	1.1120	2.2241		1592.6	4469.5
						4176.0		
2	1806.0	1795.0	1.1125	1.1178	2.2356		1605.9	4468.1
						0.0		
1	1806.0	1795.0	1.1150	1.1203	2.2406		1602.3	4463.1
						-26.3		
60	1832.0	1821.0	0.1265	0.1324	0.2648		13752.2	12981.5
						-2144.2		
59	1866.0	1855.0	0.1106	0.1166	0.2331		15913.3	13813.2
						-185.2		
58	1892.0	1881.0	-0.0300	-0.0240	-0.0480		-78428.9	
						3591.4		
57	1922.0	1911.0	-0.0216	-0.0156	-0.0312		122348.9	
						249.3		
56	1948.0	1937.0	0.0826	0.0886	0.1772		21867.0	15884.7
						-492.5		
55	1971.0	1960.0	0.0359	0.0419	0.0838		46802.5	23096.5
						-462.3		
54	2001.0	1990.0	-0.0290	-0.0230	-0.0460		-86575.3	
						82.1		
53	2012.0	2001.0	0.1052	0.1111	0.2223		18003.8	14173.3
						10.0		
52	2038.0	2027.0	2.7028	2.7075	5.4149		748.7	2871.7
						-18.0		
51	2055.0	2044.0	1.7564	1.7615	3.5230		1160.4	3560.2
						-14.5		
50	2078.0	2067.0	0.1668	0.1727	0.3454		11970.0	11370.7
						52.1		
49	2100.0	2089.0	0.5899	0.5956	1.1913		3507.1	6122.5
						-47.9		
48	2128.0	2117.0	0.0059	0.0119	0.0237		178598.7	43399.9
						235.1		
47	2156.0	2145.0	0.1250	0.1309	0.2618		16386.9	13062.0
						-193.8		
46	2186.0	2175.0	-0.0300	-0.0240	-0.0480		-90671.4	
						33.3		
45	2210.0	2199.0	0.6903	0.6960	1.3921		3159.2	5663.8
						-43.5		
44	2233.0	2222.0	0.1606	0.1665	0.3330		13344.9	11579.8
						-124.4		
43	2253.0	2242.0	-0.0002	0.0058	0.0115		389194.6	62252.3
						174.3		
42	2280.0	2269.0	0.1547	0.1606	0.3212		14128.9	11791.6
						-205.2		
41	2305.0	2294.0	0.0327	0.0387	0.0773		59346.7	24031.8
						-874.8		

Stack Summary Listing (2/3) from VSI_001_A_geo_wavelfield_z.ldb

Stack Number	Measured Depth [m]	True Vertical Depth [m]	Measured Time [s]	One-way Vertical Time [s]	Two-way Vertical Time [s]	Interval Velocity [m/s]	Average Velocity [m/s]	RMS Velocity [m/s]
40	2333.0	2322.0	0.0007	0.0067	0.0133		348351.6	57839.7
						76.6		
39	2358.0	2347.0	0.3274	0.3332	0.6665		7043.2	8180.8
						-96.4		
38	2391.0	2380.0	-0.0146	-0.0086	-0.0172		-	
						18.0	276999.0	
37	2416.0	2405.0	1.3753	1.3808	2.7617		1741.7	4018.5
						-47.0		
36	2444.0	2433.0	0.7806	0.7863	1.5727		3094.0	5325.0
						-35.8		
35	2472.0	2461.0	-0.0022	0.0038	0.0076		648865.6	76672.6
						23.7		
34	2491.0	2480.0	0.8003	0.8060	1.6121		3076.8	5259.5
						-104.8		
33	2513.0	2502.0	0.5907	0.5965	1.1930		4194.3	6113.4
						28.4		
32	2540.0	2529.0	1.5417	1.5472	3.0943		1634.6	3796.1
						-20.1		
31	2568.0	2557.0	0.1486	0.1546	0.3092		16540.6	12009.1
						-550.2		
30	2596.0	2585.0	0.0977	0.1037	0.2074		24928.1	14657.6
						-210.6		
29	2621.0	2610.0	-0.0208	-0.0148	-0.0296		-	
						250.1	176485.9	
28	2646.0	2635.0	0.0794	0.0854	0.1707		30863.9	16154.5
						61.4		
27	2685.0	2674.0	0.7145	0.7203	1.4406		3712.4	5562.0
						69.4		
8	2716.0	2705.0	1.1617	1.1673	2.3347		2317.3	4369.3
						-0.0		
26	2716.0	2705.0	0.0913	0.0972	0.1945		27821.6	15139.4
						27.2		
25	2746.0	2735.0	1.1949	1.2006	2.4012		2278.0	4308.4
						-42.1		
24	2776.0	2765.0	0.4812	0.4871	0.9742		5676.2	6763.7
						-187.2		
23	2802.0	2791.0	0.3424	0.3483	0.6965		8013.9	7998.2
						-64.6		
22	2826.0	2815.0	-0.0290	-0.0230	-0.0460		-	
						79.6	122428.4	
21	2846.0	2835.0	0.2225	0.2284	0.4568		12411.2	9876.1
						-110.5		
20	2872.0	2861.0	-0.0128	-0.0068	-0.0136		-	
						642.7	419250.9	
19	2899.0	2888.0	0.0292	0.0352	0.0705		81981.1	25156.6
						-334.8		
18	2916.0	2905.0	-0.0216	-0.0156	-0.0311		-	
						249.6	186795.6	
17	2941.0	2930.0	0.0787	0.0847	0.1694		34599.1	16225.4
						302.8		
7	2966.0	2955.0	0.1612	0.1672	0.3343		17676.1	11550.1
						0.0		
16	2966.0	2955.0	0.2894	0.2954	0.5907		10004.8	8689.6
						-87.6		
15	2990.0	2979.0	0.0157	0.0217	0.0434		137249.3	32053.5
						0.3		

Stack Summary Listing (3/3) from VSI_001_A_geo_wavefield_z.ldr

Stack Number	Measured Depth [m]	True Vertical Depth [m]	Measured Time [s]	One-way Vertical Time [s]	Two-way Vertical Time [s]	Interval Velocity [m/s]	Average Velocity [m/s]	RMS Velocity [m/s]
6	2990.0	2979.0	0.1386	0.1446	0.2891		20607.6	12420.3
						-119.5		
5	3005.0	2994.0	0.0132	0.0192	0.0385		155646.4	34047.1
						84.6		
4	3015.0	3004.0	0.1317	0.1377	0.2754		21818.4	12726.4
						6.4		
3	3016.0	3005.0	0.2844	0.2903	0.5806		10350.7	8764.1
						-0.2		
14	3016.0	3005.0	0.1155	0.1215	0.2430		24733.0	13547.5

Shot Summary Listing (1/3)

Measured Depth [m]	Tool Number	Stack Number	Relative Bearing [deg]	Caliper [in]	Anchoring force [kg]	Shot number
1656.0	1	13	-42.3	4.6	753.7	116
1696.0	1	12	-76.5	4.4	781.1	104
1742.0	1	11	-1.5	15.7	1425.5	82, 83, 93
1756.0	1	10	-1.7	12.2	596.9	68, 69, 71, 72
1782.0	1	9	154.1	17.1	-756.0	57, 60
1806.0	1	2	0.3	20.8	-12.4	3, 4, 8, 10, 12, 13, 16, 20, 22
1806.0	1	1	-15.7	17.0	1278.1	3, 4, 8, 10, 12, 13, 16, 20, 22
1832.0	1	60	3.4	22.1	924.5	678
1866.0	1	59	3.5	22.1	769.6	670
1892.0	1	58	-0.9	21.3	631.6	660
1922.0	1	57	-9.6	21.9	379.6	648
1948.0	1	56	-38.2	22.1	884.3	639
1971.0	1	55	-20.4	17.1	856.1	628
2001.0	1	54	8.7	18.6	908.0	615
2012.0	1	53	-33.6	20.9	1812.4	608
2038.0	1	52	-32.8	18.9	849.7	597
2055.0	1	51	-23.0	18.5	1004.4	586
2078.0	1	50	-10.6	20.0	788.4	578
2100.0	1	49	-10.0	22.1	773.4	568
2128.0	1	48	5.1	19.4	688.6	560
2156.0	1	47	-6.8	22.2	889.9	545
2186.0	1	46	-49.2	17.8	991.6	537
2210.0	1	45	-42.7	18.3	794.7	530
2233.0	1	44	2.5	19.8	929.6	516
2253.0	1	43	-34.1	18.5	1087.5	502, 506
2280.0	1	42	-62.8	16.6	796.2	499
2305.0	1	41	-34.7	16.7	856.9	485
2333.0	1	40	-37.1	16.0	806.1	474, 477

Shot Summary Listing (2/3)

Measured Depth [m]	Tool Number	Stack Number	Relative Bearing [deg]	Caliper [in]	Anchoring force [kg]	Shot number
2358.0	1	39	35.0	16.8	573.8	466
2391.0	1	38	-84.0	18.5	779.6	460
2416.0	1	37	-34.9	15.2	816.3	446
2444.0	1	36	-20.6	16.0	721.7	438
2472.0	1	35	-2.7	16.7	672.4	426
2491.0	1	34	-7.6	16.1	724.1	413
2513.0	1	33	-25.3	16.4	636.3	406
2540.0	1	32	7.0	17.1	691.7	400
2568.0	1	31	-29.4	16.8	771.9	384
2596.0	1	30	-39.6	17.2	829.5	376
2621.0	1	29	-5.8	16.4	546.4	353
2646.0	1	28	-8.6	16.1	557.8	337
2685.0	1	27	-28.7	16.9	618.0	333
2716.0	1	8	-51.9	20.7	634.4	51, 319
2716.0	1	26	-10.0	16.3	653.0	51, 319
2746.0	1	25	25.7	17.4	615.1	298
2776.0	1	24	-26.8	15.9	641.8	288
2802.0	1	23	13.4	16.4	476.1	279
2826.0	1	22	-24.3	15.4	762.7	258, 259, 264
2846.0	1	21	6.6	15.7	797.1	251
2872.0	1	20	7.7	14.2	541.7	230
2899.0	1	19	-0.2	16.0	1102.7	211, 214
2916.0	1	18	23.1	13.6	511.7	202
2941.0	1	17	14.8	13.6	506.2	193
2966.0	1	7	-14.9	20.6	460.2	46, 177
2966.0	1	16	20.5	13.7	729.2	46, 177
2990.0	1	15	-2.8	12.4	542.5	44, 163
2990.0	1	6	-17.5	20.6	562.7	44, 163

Shot Summary Listing (3/3)

Measured Depth [m]	Tool Number	Stack Number	Relative Bearing [deg]	Caliper [in]	Anchoring force [kg]	Shot number
3005.0	1	5	-36.8	20.6	569.5	36
3015.0	1	4	-18.6	20.6	508.0	30
3016.0	1	3	-16.6	20.5	412.4	26, 134, 144
3016.0	1	14	-6.1	11.0	396.2	26, 134, 144

Observer's Note (1/12)

Well depth [m]	Time	Shot Type	Shot#	Stack#	Source	Remarks
1806.0	14:04:05	SHAK	1			
1806.0	14:04:23	BKGD	2			
1806.0	14:04:45	SHOT	3	1	A	Warmup
1806.0	14:05:15	SHOT	4	1	A	Warmup
1806.0	14:06:17	SHOT	5	1	A	Gun1 only
1806.0	14:06:48	SHOT	6	1	A	Gun1 only
1806.0	14:08:05	SHOT	7	1	A	Gun1 only
1806.0	14:08:23	SHOT	8	1	A	Gun1 only
1806.0	14:08:42	SHOT	9	1	A	Gun1 only
1806.0	14:09:15	SHOT	10	1	A	Gun2only
1806.0	14:09:33	SHOT	11	1	A	Gun2only - marginal break
1806.0	14:09:51	SHOT	12	1	A	Gun2only
1806.0	14:10:21	SHOT	13	1	A	Gun2only
1806.0	14:10:39	SHOT	14	1	A	Gun2only
1806.0	14:11:06	SHOT	15	1	A	Gun2only
1806.0	14:13:05	SHOT	16	2	A	Shot 1 for actual station
1806.0	14:13:56	SHOT	17	2	A	
1806.0	14:14:26	SHOT	18	2	A	
1806.0	14:14:44	SHOT	19	2	A	Bad Shot - don't stack
1806.0	14:15:05	SHOT	20	2	A	
1806.0	14:15:23	SHOT	21	2	A	Bad shot
1806.0	14:15:42	SHOT	22	2	A	End of actual station at 1806.0m
3016.0	15:37:21	BKGD	23			
3016.0	15:37:43	SHAK	24			
3016.0	15:39:06	SHOT	25	3	A	
3016.0	15:40:46	SHOT	26	3	A	
3015.0	15:46:05	BKGD	27			
3015.0	15:47:51	SHOT	28	4	A	Noisy
3015.0	15:48:37	SHOT	29	4	A	
3015.0	15:49:41	SHOT	30	4	A	
3015.0	15:50:19	SHOT	31	4	A	Attempted z-gain x4, no better
3015.0	15:50:42	SHOT	32	4	A	returned to z-gain x2, all channels still very noisy; marginal anchor
3005.0	16:03:15	BKGD	33			
3005.0	16:03:35	SHOT	34	5	A	
3005.0	16:04:12	SHOT	35	5	A	
3005.0	16:04:44	SHOT	36	5	A	
3005.0	16:07:06	SHOT	37	5	A	
3005.0	16:09:12	SHOT	38	5	A	Bad
3005.0	16:09:58	BKGD	39			
3005.0	16:10:29	SHOT	40	5	A	No good shots on this station
2990.0	16:21:57	BKGD	41			
2990.0	16:22:19	SHOT	42	6	A	
2990.0	16:23:11	SHOT	43	6	A	
2990.0	16:23:40	SHOT	44	6	A	No good shots at this depth
2966.0	16:30:40	SHOT	45	7	A	
2966.0	16:31:02	SHOT	46	7	A	
2966.0	16:31:20	SHOT	47	7	A	No good shots
2716.0	16:52:12	BKGD	48			
2716.0	16:52:25	SHOT	49	8	A	
2716.0	16:52:44	SHOT	50	8	A	
2716.0	16:53:02	SHOT	51	8	A	No good shots
1782.0	20:06:05	BKGD	52			
1782.0	20:06:30	SHOT	53	9	A	
1782.0	20:06:50	SHOT	54	9	A	
1782.0	20:07:08	SHOT	55	9	A	Noise
1782.0	20:07:26	SHOT	56	9	A	
1782.0	20:07:45	SHOT	57	9	A	Good
1782.0	20:08:04	SHOT	58	9	A	
1782.0	20:08:22	SHOT	59	9	A	

Observer's Note (2/12)

Well depth [m]	Time	Shot Type	Shot#	Stack#	Source	Remarks
1782.0	20:08:40	SHOT	60	9	A	Good
1782.0	20:08:58	SHOT	61	9	A	
1782.0	20:09:16	SHOT	62	9	A	Good
1782.0	20:09:34	SHOT	63	9	A	Good
1782.0	20:09:52	SHOT	64	9	A	Marginal station -- had to keep pulling up to avoid zero head tension
1756.0	20:13:49	BKGD	65			
1756.0	20:14:04	SHOT	66	10	A	
1756.0	20:14:22	SHOT	67	10	A	Noisy
1756.0	20:14:40	SHOT	68	10	A	Good
1756.0	20:14:58	SHOT	69	10	A	Good
1756.0	20:15:16	SHOT	70	10	A	Noise
1756.0	20:15:34	SHOT	71	10	A	Good
1756.0	20:15:52	SHOT	72	10	A	Good
1742.0	20:20:38	SHOT	73	11	A	Noise
1742.0	20:20:56	SHOT	74	11	A	
1742.0	20:21:14	SHOT	75	11	A	
1742.0	20:21:32	SHOT	76	11	A	
1742.0	20:21:50	SHOT	77	11	A	
1742.0	20:22:13	SHOT	78	11	A	
1742.0	20:22:31	SHOT	79	11	A	
1742.0	20:22:50	SHOT	80	11	A	Good
1742.0	20:23:08	SHOT	81	11	A	
1742.0	20:23:26	SHOT	82	11	A	Good
1742.0	20:23:44	SHOT	83	11	A	Good
1742.0	20:24:06	SHOT	84	11	A	
1742.0	20:24:25	SHOT	85	11	A	
1742.0	20:24:44	SHOT	86	11	A	Good?
1742.0	20:25:22	SHOT	87	11	A	
1742.0	20:25:57	SHOT	88	11	A	
1742.0	20:26:15	SHOT	89	11	A	
1742.0	20:26:36	SHOT	90	11	A	
1742.0	20:26:55	SHOT	91	11	A	
1742.0	20:27:37	SHOT	92	11	A	
1742.0	20:27:55	SHOT	93	11	A	Good
1742.0	20:28:13	SHOT	94	11	A	
1742.0	20:28:31	SHOT	95	11	A	
1742.0	20:28:49	SHOT	96	11	A	
1742.0	20:29:07	SHOT	97	11	A	
1742.0	20:29:27	SHOT	98	11	A	
1742.0	20:29:45	SHOT	99	11	A	
1696.0	20:43:52	BKGD	100			
1696.0	20:44:02	SHOT	101	12	A	Noise
1696.0	20:44:20	SHOT	102	12	A	
1696.0	20:44:52	SHOT	103	12	A	
1696.0	20:45:11	SHOT	104	12	A	
1696.0	20:45:30	SHOT	105	12	A	Garbage Station
1656.0	20:55:17	SHOT	106	13	A	
1656.0	20:55:35	SHOT	107	13	A	
1656.0	20:55:53	SHOT	108	13	A	
1656.0	20:56:11	SHOT	109	13	A	
1656.0	20:56:29	SHOT	110	13	A	
1656.0	20:56:47	SHOT	111	13	A	
1656.0	20:57:05	SHOT	112	13	A	
1656.0	20:57:23	SHOT	113	13	A	
1656.0	20:57:41	SHOT	114	13	A	
1656.0	20:57:59	SHOT	115	13	A	
1656.0	20:58:17	SHOT	116	13	A	
1656.0	20:58:35	SHOT	117	13	A	
3016.0	13:11:02	BKGD	118			

Observer's Note (3/12)

Well depth [m]	Time	Shot Type	Shot#	Stack#	Source	Remarks
3016.0	13:11:14	SHOT	119	14	A	Good
3016.0	13:11:32	SHOT	120	14	A	Noise
3016.0	13:11:50	SHOT	121	14	A	Noise
3016.0	13:12:08	SHOT	122	14	A	
3016.0	13:12:27	SHOT	123	14	A	
3016.0	13:13:10	SHOT	124	14	A	
3016.0	13:13:28	SHOT	125	14	A	
3016.0	13:13:46	SHOT	126	14	A	
3016.0	13:14:04	SHOT	127	14	A	
3016.0	13:14:22	SHOT	128	14	A	
3016.0	13:14:40	SHOT	129	14	A	
3016.0	13:15:45	SHOT	130	14	A	
3016.0	13:16:03	SHOT	131	14	A	
3016.0	13:16:21	SHOT	132	14	A	?
3016.0	13:16:39	SHOT	133	14	A	
3016.0	13:16:57	SHOT	134	14	A	
3016.0	13:17:15	SHOT	135	14	A	
3016.0	13:17:33	SHOT	136	14	A	
3016.0	13:17:51	SHOT	137	14	A	
3016.0	13:18:09	SHOT	138	14	A	
3016.0	13:18:27	SHOT	139	14	A	
3016.0	13:19:17	SHOT	140	14	A	
3016.0	13:19:41	SHOT	141	14	A	
3016.0	13:19:59	SHOT	142	14	A	
3016.0	13:20:17	SHOT	143	14	A	Good
3016.0	13:20:35	SHOT	144	14	A	Noise
3016.0	13:20:54	SHOT	145	14	A	Good?
3016.0	13:21:12	SHOT	146	14	A	
3016.0	13:21:30	SHOT	147	14	A	
3016.0	13:22:12	SHOT	148	14	A	
2990.0	13:27:51	SHOT	149	15	A	
2990.0	13:28:09	SHOT	150	15	A	
2990.0	13:28:27	SHOT	151	15	A	
2990.0	13:28:50	SHOT	152	15	A	?
2990.0	13:29:15	SHOT	153	15	A	
2990.0	13:29:40	SHOT	154	15	A	
2990.0	13:30:11	SHOT	155	15	A	
2990.0	13:30:30	SHOT	156	15	A	
2990.0	13:30:53	SHOT	157	15	A	
2990.0	13:31:12	SHOT	158	15	A	
2990.0	13:31:30	SHOT	159	15	A	
2990.0	13:31:53	SHOT	160	15	A	
2990.0	13:32:21	SHOT	161	15	A	
2990.0	13:32:39	SHOT	162	15	A	
2990.0	13:32:57	SHOT	163	15	A	
2990.0	13:33:16	SHOT	164	15	A	
2966.0	13:39:01	SHOT	165	16	A	Good
2966.0	13:39:19	SHOT	166	16	A	
2966.0	13:39:37	SHOT	167	16	A	
2966.0	13:39:55	SHOT	168	16	A	?
2966.0	13:40:14	SHOT	169	16	A	Good
2966.0	13:40:32	SHOT	170	16	A	?
2966.0	13:40:54	SHOT	171	16	A	
2966.0	13:41:12	SHOT	172	16	A	
2966.0	13:41:30	SHOT	173	16	A	?
2966.0	13:41:48	SHOT	174	16	A	
2966.0	13:42:06	SHOT	175	16	A	
2966.0	13:42:27	SHOT	176	16	A	
2966.0	13:42:46	SHOT	177	16	A	

Observer's Note (4/12)

Well depth [m]	Time	Shot Type	Shot#	Stack#	Source	Remarks
2941.0	13:48:12	SHOT	178	17	A	Noise
2941.0	13:48:30	SHOT	179	17	A	
2941.0	13:48:49	SHOT	180	17	A	
2941.0	13:49:07	SHOT	181	17	A	Good
2941.0	13:49:27	SHOT	182	17	A	
2941.0	13:49:45	SHOT	183	17	A	
2941.0	13:50:14	SHOT	184	17	A	?
2941.0	13:50:33	SHOT	185	17	A	
2941.0	13:50:51	SHOT	186	17	A	
2941.0	13:51:09	SHOT	187	17	A	
2941.0	13:51:27	SHOT	188	17	A	
2941.0	13:51:45	SHOT	189	17	A	Good
2941.0	13:52:04	SHOT	190	17	A	
2941.0	13:52:22	SHOT	191	17	A	
2941.0	13:52:40	SHOT	192	17	A	
2941.0	13:52:58	SHOT	193	17	A	
2941.0	13:53:16	SHOT	194	17	A	
2941.0	13:53:34	SHOT	195	17	A	
2916.0	13:59:42	BKGD	196			
2916.0	13:59:55	SHOT	197	18	A	
2916.0	14:00:13	SHOT	198	18	A	
2916.0	14:00:31	SHOT	199	18	A	
2916.0	14:00:50	SHOT	200	18	A	?
2916.0	14:01:32	SHOT	201	18	A	
2916.0	14:01:50	SHOT	202	18	A	
2916.0	14:02:08	SHOT	203	18	A	
2916.0	14:02:26	SHOT	204	18	A	
2916.0	14:02:44	SHOT	205	18	A	
2916.0	14:03:02	SHOT	206	18	A	
2916.0	14:03:20	SHOT	207	18	A	
2916.0	14:03:38	SHOT	208	18	A	
2916.0	14:03:56	SHOT	209	18	A	
2916.0	14:04:14	SHOT	210	18	A	
2899.0	14:08:29	SHOT	211	19	A	?
2899.0	14:08:47	SHOT	212	19	A	
2899.0	14:09:05	SHOT	213	19	A	Good?
2899.0	14:09:23	SHOT	214	19	A	
2899.0	14:09:41	SHOT	215	19	A	
2899.0	14:09:59	SHOT	216	19	A	?
2899.0	14:10:18	SHOT	217	19	A	
2899.0	14:10:36	SHOT	218	19	A	
2899.0	14:10:54	SHOT	219	19	A	?
2899.0	14:11:12	SHOT	220	19	A	
2899.0	14:11:31	SHOT	221	19	A	?
2899.0	14:11:54	SHOT	222	19	A	Good?
2899.0	14:12:12	SHOT	223	19	A	?
2872.0	14:18:46	SHOT	224	20	A	
2872.0	14:19:04	SHOT	225	20	A	
2872.0	14:19:43	SHOT	226	20	A	
2872.0	14:20:01	SHOT	227	20	A	
2872.0	14:20:19	SHOT	228	20	A	
2872.0	14:20:37	SHOT	229	20	A	
2872.0	14:20:55	SHOT	230	20	A	
2872.0	14:21:14	SHOT	231	20	A	
2872.0	14:21:32	SHOT	232	20	A	
2872.0	14:21:50	SHOT	233	20	A	
2872.0	14:22:08	SHOT	234	20	A	
2872.0	14:22:26	SHOT	235	20	A	
2872.0	14:22:44	SHOT	236	20	A	

Observer's Note (5/12)

Well depth [m]	Time	Shot Type	Shot#	Stack#	Source	Remarks
2872.0	14:23:02	SHOT	237	20	A	
2872.0	14:23:20	SHOT	238	20	A	
2846.0	14:26:57	BKGD	239			
2846.0	14:27:09	SHOT	240	21	A	
2846.0	14:27:27	SHOT	241	21	A	
2846.0	14:27:45	SHOT	242	21	A	
2846.0	14:28:03	SHOT	243	21	A	
2846.0	14:28:23	SHOT	244	21	A	
2846.0	14:28:41	SHOT	245	21	A	
2846.0	14:28:59	SHOT	246	21	A	
2846.0	14:29:17	SHOT	247	21	A	
2846.0	14:29:35	SHOT	248	21	A	
2846.0	14:29:54	SHOT	249	21	A	?
2846.0	14:30:28	SHOT	250	21	A	
2846.0	14:30:47	SHOT	251	21	A	?
2846.0	14:31:07	SHOT	252	21	A	
2826.0	14:36:07	SHAK	253			
2826.0	14:36:27	SHOT	254	22	A	?
2826.0	14:36:46	SHOT	255	22	A	
2826.0	14:37:04	SHOT	256	22	A	
2826.0	14:37:22	SHOT	257	22	A	
2826.0	14:37:43	SHOT	258	22	A	
2826.0	14:38:01	SHOT	259	22	A	
2826.0	14:38:19	SHOT	260	22	A	
2826.0	14:38:37	SHOT	261	22	A	
2826.0	14:38:56	SHOT	262	22	A	
2826.0	14:39:14	SHOT	263	22	A	
2826.0	14:39:32	SHOT	264	22	A	
2826.0	14:39:50	SHOT	265	22	A	
2826.0	14:40:08	SHOT	266	22	A	
2826.0	14:40:26	SHOT	267	22	A	
2826.0	14:40:44	SHOT	268	22	A	
2826.0	14:41:02	SHOT	269	22	A	
2826.0	14:41:20	SHOT	270	22	A	
2802.0	14:50:42	SHOT	271	23	A	
2802.0	14:51:00	SHOT	272	23	A	
2802.0	14:51:20	SHOT	273	23	A	
2802.0	14:51:52	SHOT	274	23	A	
2802.0	14:52:10	SHOT	275	23	A	
2802.0	14:52:28	SHOT	276	23	A	
2802.0	14:52:46	SHOT	277	23	A	
2802.0	14:53:04	SHOT	278	23	A	
2802.0	14:53:22	SHOT	279	23	A	
2802.0	14:53:41	SHOT	280	23	A	
2802.0	14:53:59	SHOT	281	23	A	
2776.0	15:00:58	SHOT	282	24	A	
2776.0	15:01:16	SHOT	283	24	A	
2776.0	15:01:35	SHOT	284	24	A	
2776.0	15:01:53	SHOT	285	24	A	
2776.0	15:02:11	SHOT	286	24	A	
2776.0	15:02:29	SHOT	287	24	A	
2776.0	15:02:51	SHOT	288	24	A	?
2776.0	15:03:15	SHOT	289	24	A	
2776.0	15:03:33	SHOT	290	24	A	
2776.0	15:04:04	SHOT	291	24	A	
2776.0	15:04:22	SHOT	292	24	A	
2776.0	15:04:40	SHOT	293	24	A	
2776.0	15:04:59	SHOT	294	24	A	
2746.0	15:14:51	SHOT	295	25	A	

Observer's Note (6/12)

Well depth [m]	Time	Shot Type	Shot#	Stack#	Source	Remarks
2746.0	15:15:09	BKGD	296			
2746.0	15:15:18	SHOT	297	25	A	?
2746.0	15:15:40	SHOT	298	25	A	Good
2746.0	15:15:59	SHOT	299	25	A	
2746.0	15:16:17	SHOT	300	25	A	
2746.0	15:16:35	SHOT	301	25	A	
2746.0	15:16:53	SHOT	302	25	A	
2746.0	15:17:11	SHOT	303	25	A	
2746.0	15:17:29	SHOT	304	25	A	
2746.0	15:17:54	SHOT	305	25	A	?
2746.0	15:18:13	SHOT	306	25	A	
2746.0	15:18:31	SHOT	307	25	A	
2746.0	15:18:49	SHOT	308	25	A	
2716.0	15:22:52	SHOT	309	26	A	
2716.0	15:23:10	SHOT	310	26	A	
2716.0	15:23:28	SHOT	311	26	A	
2716.0	15:23:46	SHOT	312	26	A	?
2716.0	15:24:04	SHOT	313	26	A	
2716.0	15:24:23	SHOT	314	26	A	
2716.0	15:24:41	SHOT	315	26	A	
2716.0	15:24:59	SHOT	316	26	A	
2716.0	15:25:17	SHOT	317	26	A	
2716.0	15:25:35	SHOT	318	26	A	
2716.0	15:25:54	SHOT	319	26	A	
2685.0	15:31:15	SHOT	320	27	A	
2685.0	15:31:33	SHOT	321	27	A	
2685.0	15:31:51	SHOT	322	27	A	
2685.0	15:32:09	SHOT	323	27	A	
2685.0	15:32:27	SHOT	324	27	A	
2685.0	15:32:45	SHOT	325	27	A	
2685.0	15:33:03	SHOT	326	27	A	
2685.0	15:33:21	SHOT	327	27	A	
2685.0	15:33:40	SHOT	328	27	A	?
2685.0	15:33:58	SHOT	329	27	A	
2685.0	15:34:21	SHOT	330	27	A	
2685.0	15:34:39	SHOT	331	27	A	
2685.0	15:34:57	SHOT	332	27	A	
2685.0	15:35:15	SHOT	333	27	A	?
2646.0	15:40:29	SHOT	334	28	A	
2646.0	15:40:48	SHOT	335	28	A	
2646.0	15:41:06	SHOT	336	28	A	?
2646.0	15:41:24	SHOT	337	28	A	?
2646.0	15:41:42	SHOT	338	28	A	
2646.0	15:42:01	SHOT	339	28	A	
2646.0	15:42:19	SHOT	340	28	A	
2646.0	15:42:37	SHOT	341	28	A	
2646.0	15:42:55	SHOT	342	28	A	
2646.0	15:43:14	SHOT	343	28	A	
2646.0	15:43:32	SHOT	344	28	A	
2646.0	15:43:50	SHOT	345	28	A	
2646.0	15:44:08	SHOT	346	28	A	
2646.0	15:44:26	SHOT	347	28	A	
2621.0	15:48:23	SHOT	348	29	A	
2621.0	15:48:41	SHOT	349	29	A	
2621.0	15:48:59	SHOT	350	29	A	
2621.0	15:49:18	SHOT	351	29	A	
2621.0	15:49:36	SHOT	352	29	A	
2621.0	15:49:54	SHOT	353	29	A	
2621.0	15:50:15	SHOT	354	29	A	

Observer's Note (7/12)

Well depth [m]	Time	Shot Type	Shot#	Stack#	Source	Remarks
2621.0	15:50:34	SHOT	355	29	A	?
2621.0	15:50:54	SHOT	356	29	A	
2621.0	15:51:17	SHOT	357	29	A	
2621.0	15:51:35	SHOT	358	29	A	
2621.0	15:52:01	SHOT	359	29	A	
2621.0	15:52:19	SHOT	360	29	A	
2596.0	15:57:09	BKGD	361			AHC Off
2596.0	15:57:43	SHOT	362	30	A	
2596.0	15:58:01	SHOT	363	30	A	
2596.0	15:58:19	SHOT	364	30	A	
2596.0	15:58:37	SHOT	365	30	A	
2596.0	15:58:55	SHOT	366	30	A	
2596.0	15:59:13	SHOT	367	30	A	
2596.0	15:59:31	SHOT	368	30	A	
2596.0	15:59:50	SHOT	369	30	A	
2596.0	16:00:09	SHOT	370	30	A	
2596.0	16:00:27	SHOT	371	30	A	?
2596.0	16:00:45	SHOT	372	30	A	?
2596.0	16:01:03	SHOT	373	30	A	
2596.0	16:01:21	SHOT	374	30	A	
2596.0	16:01:49	SHOT	375	30	A	
2596.0	16:02:08	SHOT	376	30	A	?
2596.0	16:02:31	SHOT	377	30	A	
2568.0	16:08:24	BKGD	378			
2568.0	16:08:37	SHOT	379	31	A	
2568.0	16:08:56	SHOT	380	31	A	Good!
2568.0	16:09:14	SHOT	381	31	A	
2568.0	16:09:32	SHOT	382	31	A	
2568.0	16:09:50	SHOT	383	31	A	
2568.0	16:10:14	SHOT	384	31	A	
2568.0	16:10:32	SHOT	385	31	A	
2568.0	16:10:50	SHOT	386	31	A	
2568.0	16:11:09	SHOT	387	31	A	
2568.0	16:11:27	SHOT	388	31	A	
2568.0	16:11:45	SHOT	389	31	A	
2568.0	16:12:03	SHOT	390	31	A	
2540.0	16:18:17	SHOT	391	32	A	
2540.0	16:18:35	SHOT	392	32	A	
2540.0	16:18:53	SHOT	393	32	A	
2540.0	16:19:11	SHOT	394	32	A	
2540.0	16:19:29	SHOT	395	32	A	
2540.0	16:19:47	SHOT	396	32	A	
2540.0	16:20:05	SHOT	397	32	A	
2540.0	16:20:24	SHOT	398	32	A	
2540.0	16:20:42	SHOT	399	32	A	
2540.0	16:21:00	SHOT	400	32	A	Closed caliper -- read 6", indicating a bent tip
2513.0	16:32:15	SHOT	401	33	A	AHC On
2513.0	16:32:33	SHOT	402	33	A	
2513.0	16:32:51	SHOT	403	33	A	
2513.0	16:33:09	SHOT	404	33	A	
2513.0	16:33:27	SHOT	405	33	A	
2513.0	16:33:45	SHOT	406	33	A	
2513.0	16:34:03	SHOT	407	33	A	
2513.0	16:34:21	SHOT	408	33	A	
2513.0	16:34:40	SHOT	409	33	A	
2513.0	16:34:58	SHOT	410	33	A	
2491.0	16:39:10	SHOT	411	34	A	
2491.0	16:39:28	SHOT	412	34	A	
2491.0	16:39:46	SHOT	413	34	A	?

Observer's Note (8/12)

Well depth [m]	Time	Shot Type	Shot#	Stack#	Source	Remarks
2491.0	16:40:04	SHOT	414	34	A	
2491.0	16:40:22	SHOT	415	34	A	
2491.0	16:40:40	SHOT	416	34	A	
2491.0	16:41:02	SHOT	417	34	A	
2491.0	16:41:20	SHOT	418	34	A	
2491.0	16:41:38	SHOT	419	34	A	?
2491.0	16:41:56	SHOT	420	34	A	
2472.0	16:45:33	SHOT	421	35	A	
2472.0	16:45:51	SHOT	422	35	A	
2472.0	16:46:09	SHOT	423	35	A	?
2472.0	16:46:37	SHOT	424	35	A	?
2472.0	16:46:55	SHOT	425	35	A	
2472.0	16:47:13	SHOT	426	35	A	
2472.0	16:47:31	SHOT	427	35	A	
2472.0	16:47:50	SHOT	428	35	A	
2472.0	16:48:08	SHOT	429	35	A	?
2472.0	16:48:28	SHOT	430	35	A	
2444.0	16:52:20	SHOT	431	36	A	
2444.0	16:52:38	SHOT	432	36	A	
2444.0	16:52:58	SHOT	433	36	A	
2444.0	16:53:16	SHOT	434	36	A	
2444.0	16:53:35	SHOT	435	36	A	
2444.0	16:53:53	SHOT	436	36	A	
2444.0	16:54:11	SHOT	437	36	A	
2444.0	16:54:29	SHOT	438	36	A	?
2444.0	16:54:48	SHOT	439	36	A	
2444.0	16:55:06	SHOT	440	36	A	
2416.0	17:00:48	SHOT	441	37	A	Good-ish
2416.0	17:01:12	SHOT	442	37	A	
2416.0	17:01:30	SHOT	443	37	A	
2416.0	17:01:48	SHOT	444	37	A	
2416.0	17:02:06	SHOT	445	37	A	
2416.0	17:02:24	SHOT	446	37	A	
2416.0	17:02:43	SHOT	447	37	A	
2416.0	17:03:01	SHOT	448	37	A	
2416.0	17:03:19	SHOT	449	37	A	
2416.0	17:03:37	SHOT	450	37	A	
2391.0	17:09:51	SHOT	451	38	A	
2391.0	17:10:09	SHOT	452	38	A	
2391.0	17:10:27	SHOT	453	38	A	
2391.0	17:10:45	SHOT	454	38	A	
2391.0	17:11:03	SHOT	455	38	A	
2391.0	17:11:21	SHOT	456	38	A	?
2391.0	17:11:39	SHOT	457	38	A	
2391.0	17:11:58	SHOT	458	38	A	
2391.0	17:12:16	SHOT	459	38	A	
2391.0	17:12:34	SHOT	460	38	A	
2358.0	17:17:31	SHOT	461	39	A	
2358.0	17:18:04	SHOT	462	39	A	
2358.0	17:18:22	SHOT	463	39	A	
2358.0	17:18:41	SHOT	464	39	A	
2358.0	17:18:59	SHOT	465	39	A	
2358.0	17:19:17	SHOT	466	39	A	
2358.0	17:19:35	SHOT	467	39	A	
2358.0	17:19:53	SHOT	468	39	A	
2358.0	17:20:11	SHOT	469	39	A	
2358.0	17:20:29	SHOT	470	39	A	
2333.0	17:24:37	SHOT	471	40	A	
2333.0	17:24:55	SHOT	472	40	A	

Observer's Note (9/12)

Well depth [m]	Time	Shot Type	Shot#	Stack#	Source	Remarks
2333.0	17:25:13	SHOT	473	40	A	
2333.0	17:25:32	SHOT	474	40	A	?
2333.0	17:26:05	SHOT	475	40	A	
2333.0	17:26:23	SHOT	476	40	A	
2333.0	17:26:41	SHOT	477	40	A	?
2333.0	17:27:00	SHOT	478	40	A	
2333.0	17:27:18	SHOT	479	40	A	
2333.0	17:27:37	SHOT	480	40	A	
2305.0	17:32:08	SHOT	481	41	A	
2305.0	17:32:26	SHOT	482	41	A	
2305.0	17:32:44	SHOT	483	41	A	
2305.0	17:33:21	SHOT	484	41	A	
2305.0	17:34:28	SHOT	485	41	A	
2305.0	17:34:49	SHOT	486	41	A	
2305.0	17:35:07	SHOT	487	41	A	
2305.0	17:35:25	SHOT	488	41	A	
2305.0	17:35:43	SHOT	489	41	A	
2305.0	17:36:01	SHOT	490	41	A	?
2280.0	17:40:03	SHOT	491	42	A	
2280.0	17:40:11	BKGD	492			
2280.0	17:40:27	SHOT	493	42	A	
2280.0	17:40:45	SHOT	494	42	A	
2280.0	17:41:03	SHOT	495	42	A	
2280.0	17:41:21	SHOT	496	42	A	
2280.0	17:41:39	SHOT	497	42	A	
2280.0	17:41:58	SHOT	498	42	A	?
2280.0	17:42:16	SHOT	499	42	A	
2280.0	17:42:34	SHOT	500	42	A	
2280.0	17:42:52	SHOT	501	42	A	?
2253.0	17:48:12	SHOT	502	43	A	?
2253.0	17:48:30	SHOT	503	43	A	
2253.0	17:48:48	SHOT	504	43	A	
2253.0	17:49:06	SHOT	505	43	A	
2253.0	17:49:31	SHOT	506	43	A	
2253.0	17:49:49	SHOT	507	43	A	
2253.0	17:50:12	SHOT	508	43	A	
2253.0	17:50:30	SHOT	509	43	A	
2253.0	17:50:56	SHOT	510	43	A	
2253.0	17:51:33	SHOT	511	43	A	
2233.0	17:59:46	SHOT	512	44	A	
2233.0	18:00:04	SHOT	513	44	A	
2233.0	18:00:23	SHOT	514	44	A	
2233.0	18:01:02	SHOT	515	44	A	
2233.0	18:01:20	SHOT	516	44	A	
2233.0	18:01:38	SHOT	517	44	A	
2233.0	18:01:56	SHOT	518	44	A	Good!
2233.0	18:02:17	SHOT	519	44	A	Good!
2233.0	18:02:35	SHOT	520	44	A	
2233.0	18:02:53	SHOT	521	44	A	
2210.0	18:07:10	SHOT	522	45	A	?
2210.0	18:07:30	SHOT	523	45	A	
2210.0	18:07:48	SHOT	524	45	A	
2210.0	18:08:06	SHOT	525	45	A	
2210.0	18:08:24	SHOT	526	45	A	
2210.0	18:08:43	SHOT	527	45	A	
2210.0	18:09:01	SHOT	528	45	A	
2210.0	18:09:19	SHOT	529	45	A	
2210.0	18:09:38	SHOT	530	45	A	
2186.0	18:15:38	SHOT	531	46	A	

Observer's Note (10/12)

Well depth [m]	Time	Shot Type	Shot#	Stack#	Source	Remarks
2186.0	18:15:56	SHOT	532	46	A	
2186.0	18:16:14	SHOT	533	46	A	
2186.0	18:16:32	SHOT	534	46	A	
2186.0	18:16:50	SHOT	535	46	A	?
2186.0	18:17:08	SHOT	536	46	A	Good?
2186.0	18:17:51	SHOT	537	46	A	
2186.0	18:18:12	SHOT	538	46	A	
2186.0	18:18:34	SHOT	539	46	A	
2186.0	18:18:52	SHOT	540	46	A	Good
2156.0	18:23:41	SHAK	541			
2156.0	18:24:03	SHOT	542	47	A	
2156.0	18:24:24	SHOT	543	47	A	
2156.0	18:24:42	SHOT	544	47	A	
2156.0	18:25:01	SHOT	545	47	A	
2156.0	18:25:19	SHOT	546	47	A	?
2156.0	18:25:37	SHOT	547	47	A	
2156.0	18:26:00	SHOT	548	47	A	Good?
2156.0	18:26:18	SHOT	549	47	A	
2156.0	18:26:36	SHOT	550	47	A	
2128.0	18:33:06	SHOT	551	48	A	
2128.0	18:33:34	SHOT	552	48	A	
2128.0	18:33:52	SHOT	553	48	A	Good
2128.0	18:34:10	SHOT	554	48	A	
2128.0	18:34:28	SHOT	555	48	A	
2128.0	18:34:46	SHOT	556	48	A	?
2128.0	18:35:04	SHOT	557	48	A	?
2128.0	18:35:22	SHOT	558	48	A	
2128.0	18:35:40	SHOT	559	48	A	
2128.0	18:35:59	SHOT	560	48	A	?
2100.0	18:40:13	SHOT	561	49	A	
2100.0	18:40:31	SHOT	562	49	A	
2100.0	18:40:49	SHOT	563	49	A	
2100.0	18:41:07	SHOT	564	49	A	Good
2100.0	18:41:27	SHOT	565	49	A	Good
2100.0	18:41:45	SHOT	566	49	A	
2100.0	18:42:03	SHOT	567	49	A	
2100.0	18:42:21	SHOT	568	49	A	Good
2100.0	18:42:40	SHOT	569	49	A	
2100.0	18:42:58	SHOT	570	49	A	
2078.0	18:49:47	SHOT	571	50	A	Good
2078.0	18:50:05	SHOT	572	50	A	
2078.0	18:50:23	SHOT	573	50	A	
2078.0	18:50:41	SHOT	574	50	A	
2078.0	18:50:59	SHOT	575	50	A	
2078.0	18:51:17	SHOT	576	50	A	
2078.0	18:51:35	SHOT	577	50	A	?
2078.0	18:52:04	SHOT	578	50	A	
2078.0	18:52:22	SHOT	579	50	A	
2078.0	18:52:40	SHOT	580	50	A	
2055.0	18:57:28	SHOT	581	51	A	
2055.0	18:57:57	SHOT	582	51	A	
2055.0	18:58:31	SHOT	583	51	A	
2055.0	18:58:49	SHOT	584	51	A	
2055.0	18:59:07	SHOT	585	51	A	
2055.0	18:59:26	SHOT	586	51	A	?
2055.0	18:59:44	SHOT	587	51	A	
2055.0	19:00:02	SHOT	588	51	A	
2055.0	19:00:20	SHOT	589	51	A	
2055.0	19:00:38	SHOT	590	51	A	

Observer's Note (11/12)

Well depth [m]	Time	Shot Type	Shot#	Stack#	Source	Remarks
2038.0	19:05:21	SHOT	591	52	A	
2038.0	19:05:39	SHOT	592	52	A	
2038.0	19:05:57	SHOT	593	52	A	
2038.0	19:06:15	SHOT	594	52	A	?
2038.0	19:06:33	SHOT	595	52	A	?
2038.0	19:06:51	SHOT	596	52	A	
2038.0	19:07:09	SHOT	597	52	A	
2038.0	19:07:27	SHOT	598	52	A	
2038.0	19:07:45	SHOT	599	52	A	
2038.0	19:08:03	SHOT	600	52	A	
2012.0	19:12:18	SHOT	601	53	A	
2012.0	19:12:36	SHOT	602	53	A	?
2012.0	19:12:54	SHOT	603	53	A	
2012.0	19:13:12	SHOT	604	53	A	?
2012.0	19:13:30	SHOT	605	53	A	
2012.0	19:13:48	SHOT	606	53	A	
2012.0	19:14:06	SHOT	607	53	A	
2012.0	19:14:24	SHOT	608	53	A	
2012.0	19:14:42	SHOT	609	53	A	?
2012.0	19:15:00	SHOT	610	53	A	
2001.0	19:20:17	SHOT	611	54	A	
2001.0	19:20:35	SHOT	612	54	A	?
2001.0	19:20:53	SHOT	613	54	A	
2001.0	19:21:12	SHOT	614	54	A	?
2001.0	19:21:30	SHOT	615	54	A	
2001.0	19:21:48	SHOT	616	54	A	
2001.0	19:22:06	SHOT	617	54	A	?
2001.0	19:22:24	SHOT	618	54	A	
2001.0	19:22:42	SHOT	619	54	A	
2001.0	19:23:00	SHOT	620	54	A	
1971.0	19:28:24	SHOT	621	55	A	
1971.0	19:28:42	SHOT	622	55	A	?
1971.0	19:29:00	SHOT	623	55	A	
1971.0	19:29:18	SHOT	624	55	A	
1971.0	19:29:36	SHOT	625	55	A	
1971.0	19:29:54	SHOT	626	55	A	
1971.0	19:30:12	SHOT	627	55	A	
1971.0	19:30:30	SHOT	628	55	A	?
1971.0	19:30:48	SHOT	629	55	A	
1971.0	19:31:06	SHOT	630	55	A	?
1948.0	19:36:38	SHOT	631	56	A	
1948.0	19:36:56	SHOT	632	56	A	
1948.0	19:37:15	SHOT	633	56	A	
1948.0	19:37:33	SHOT	634	56	A	
1948.0	19:37:51	SHOT	635	56	A	
1948.0	19:38:09	SHOT	636	56	A	
1948.0	19:38:27	SHOT	637	56	A	
1948.0	19:38:45	SHOT	638	56	A	
1948.0	19:39:03	SHOT	639	56	A	
1948.0	19:39:21	SHOT	640	56	A	
1922.0	19:43:29	SHOT	641	57	A	?
1922.0	19:43:47	SHOT	642	57	A	
1922.0	19:44:05	SHOT	643	57	A	
1922.0	19:44:23	SHOT	644	57	A	
1922.0	19:44:41	SHOT	645	57	A	
1922.0	19:45:00	SHOT	646	57	A	
1922.0	19:45:18	SHOT	647	57	A	
1922.0	19:45:36	SHOT	648	57	A	
1922.0	19:45:54	SHOT	649	57	A	

Observer's Note (12/12)

Well depth [m]	Time	Shot Type	Shot#	Stack#	Source	Remarks
1922.0	19:46:12	SHOT	650	57	A	
1892.0	19:50:09	SHOT	651	58	A	
1892.0	19:51:01	SHOT	652	58	A	
1892.0	19:51:19	SHOT	653	58	A	
1892.0	19:51:37	SHOT	654	58	A	
1892.0	19:51:55	SHOT	655	58	A	
1892.0	19:52:13	SHOT	656	58	A	
1892.0	19:52:32	SHOT	657	58	A	
1892.0	19:52:50	SHOT	658	58	A	
1892.0	19:53:08	SHOT	659	58	A	
1892.0	19:53:26	SHOT	660	58	A	
1866.0	19:57:11	SHOT	661	59	A	
1866.0	19:57:29	SHOT	662	59	A	
1866.0	19:57:47	SHOT	663	59	A	
1866.0	19:58:05	SHOT	664	59	A	
1866.0	19:58:23	SHOT	665	59	A	
1866.0	19:58:41	SHOT	666	59	A	
1866.0	19:58:59	SHOT	667	59	A	
1866.0	19:59:17	SHOT	668	59	A	
1866.0	19:59:42	SHOT	669	59	A	
1866.0	20:00:00	SHOT	670	59	A	
1832.0	20:04:00	SHOT	671	60	A	
1832.0	20:04:18	SHOT	672	60	A	
1832.0	20:04:36	SHOT	673	60	A	
1832.0	20:04:54	SHOT	674	60	A	
1832.0	20:05:12	SHOT	675	60	A	
1832.0	20:05:30	SHOT	676	60	A	
1832.0	20:05:48	SHOT	677	60	A	
1832.0	20:06:06	SHOT	678	60	A	
1832.0	20:06:24	SHOT	679	60	A	
1832.0	20:06:42	SHOT	680	60	A	

Source Configuration (Air Gun)

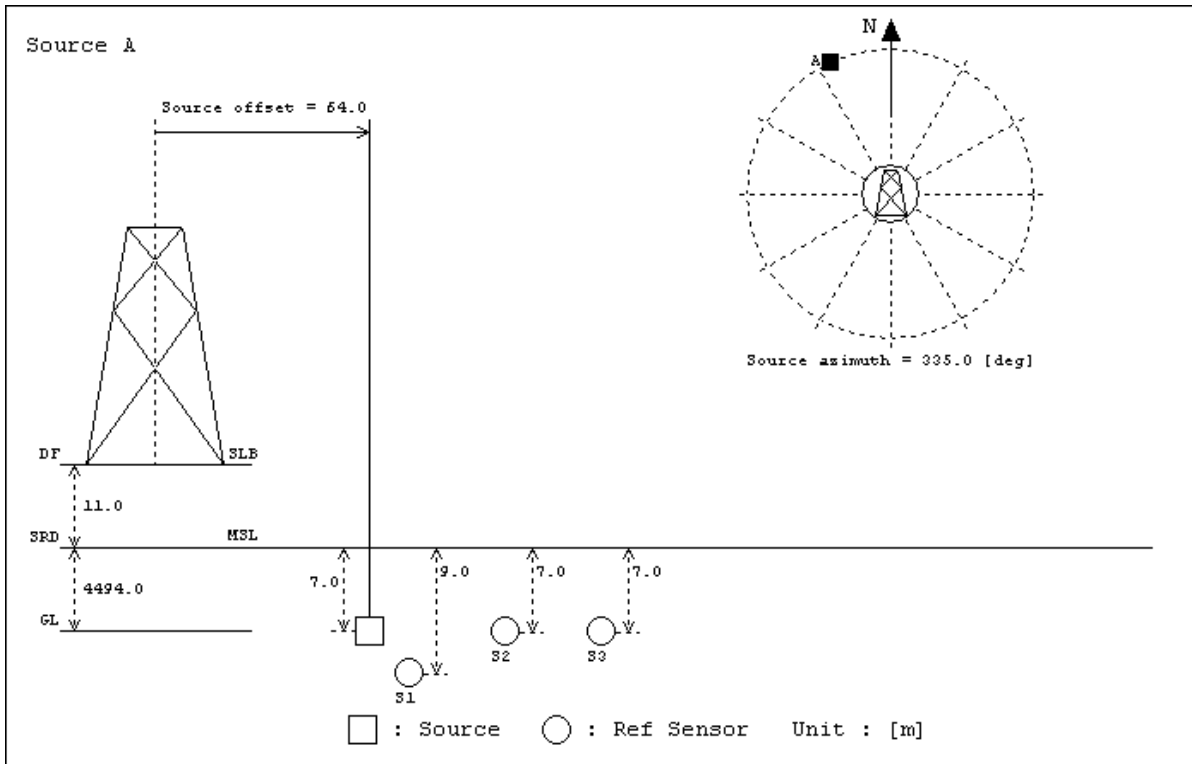
Source Location (Rig, Boat, Pit, Borehole)	Rig (Crane #3, Aft Port Side)
Source Group ID (A, B, C, ...)	A
Source Offset (for fixed offset)	64.15m
Source Azimuth (for fixed offset)	Rig Heading – 141.21 deg, initially RH=305deg
Source Depth from Surface	7m
Source Depth from Logging Zero	18m

Gun Controller Type	WSI
Gun Controller Model Name	WSI-A
Gun Controller Serial Number	854
Gun Type	GI-250
Gun Serial Number(s)	-
Gun Configuration (3 Gun Cluster, Gun Array, etc.)	2-Gun Horizontal Array
Gun Chamber Volumes	250 cu. in.
Gun Pit/Borehole Information	-
Compressor Type	Rig Air
Compressor Flow Rate	-
Air Regulator Pressure	2000 PSI

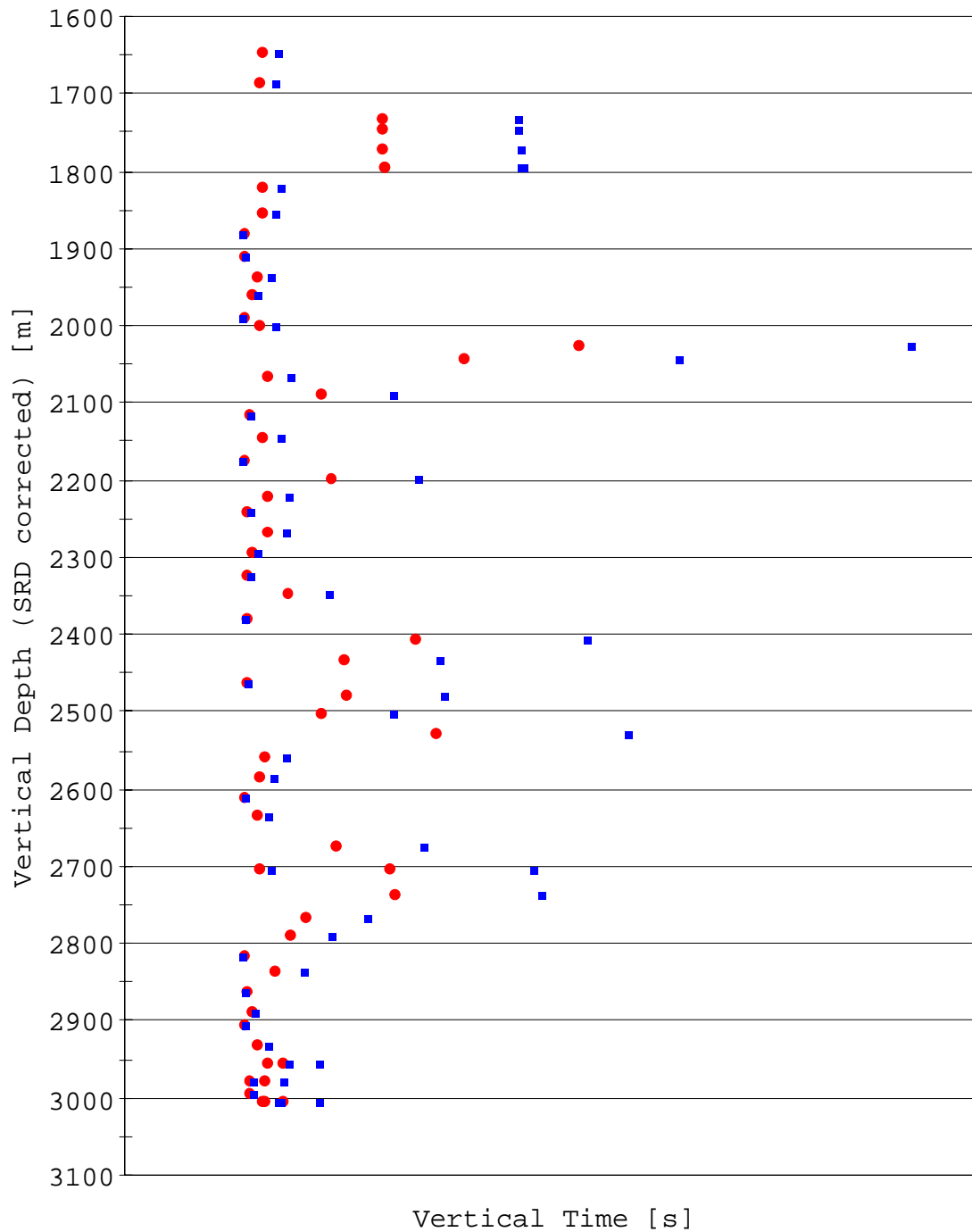
Surface Sensor Configuration

Number of Surface Reference Sensors	1
Surface Recording Length	500 ms
Surface Sampling Rate	1 ms
Sensor Type (S1)	MP-24H Hydrophone
Sensor Depth from Surface (S1)	9m below MSL / 2m below gun array
Sensor Depth from Logging Zero (S1)	21m
Sensor Offset from Source (S1)	64.15m

Source Geometry Sketch

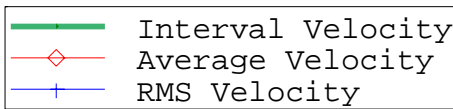
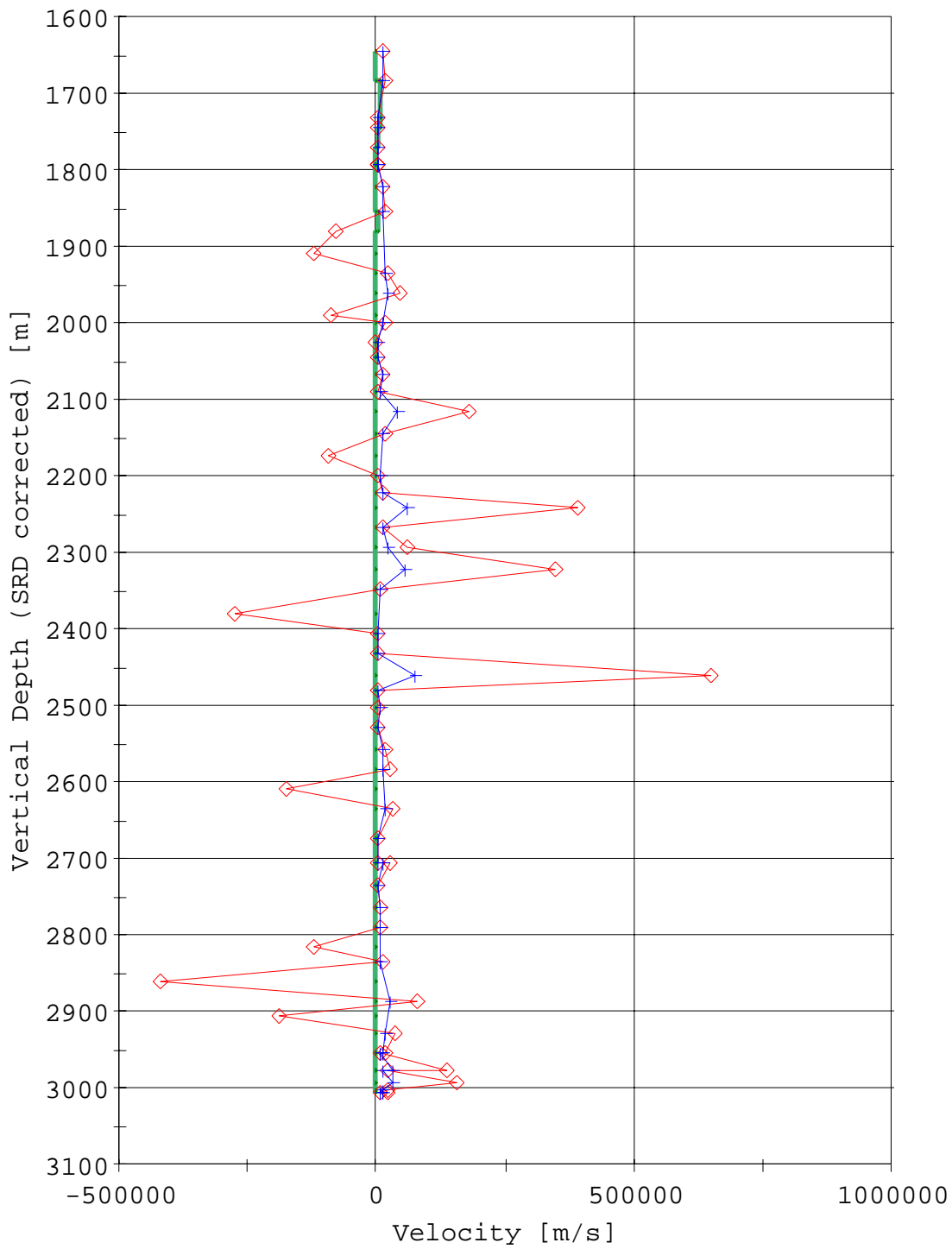


Time Depth Plot



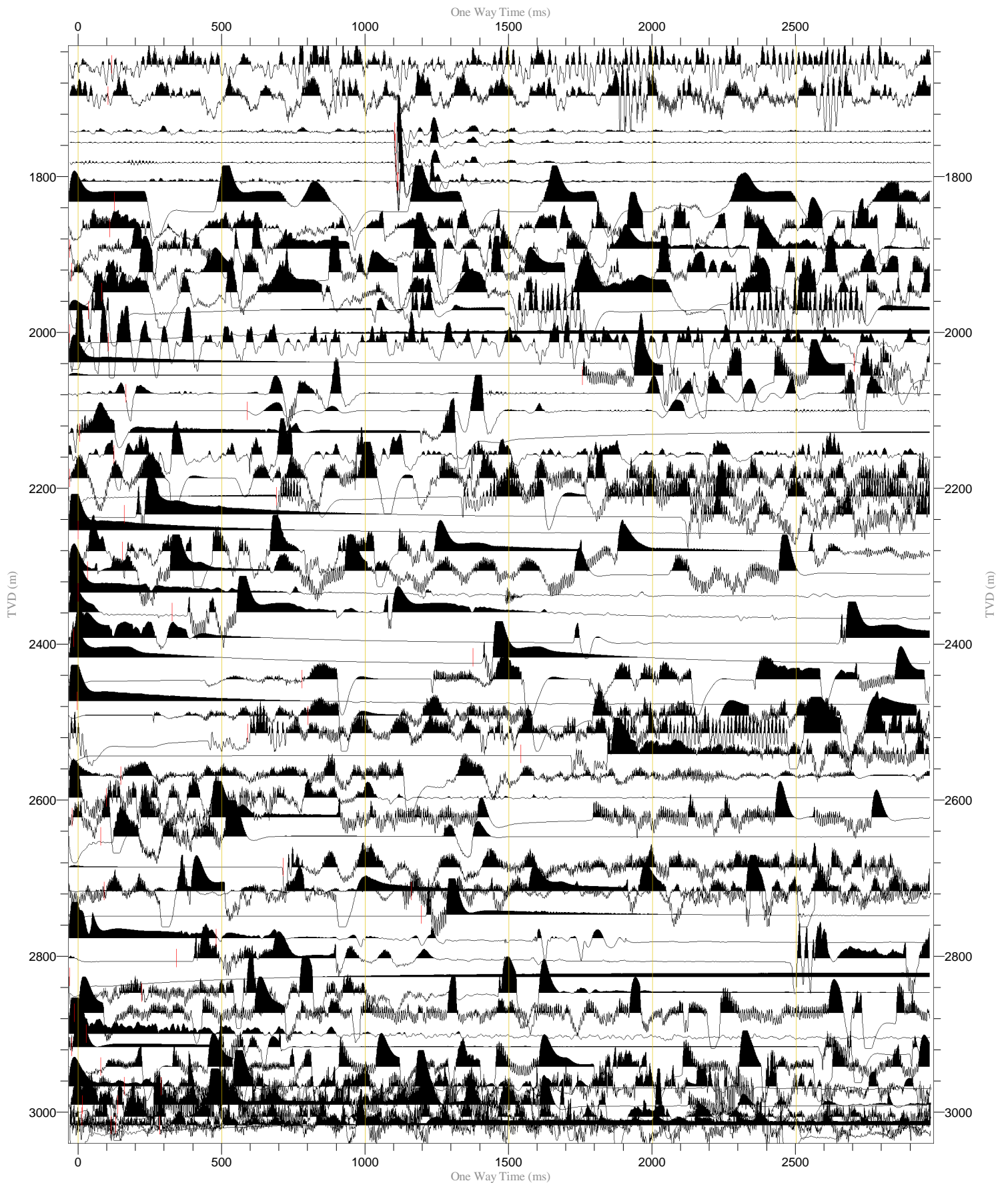
- One-way Vertical Time
- Two-way Vertical Time

Velocity Plot



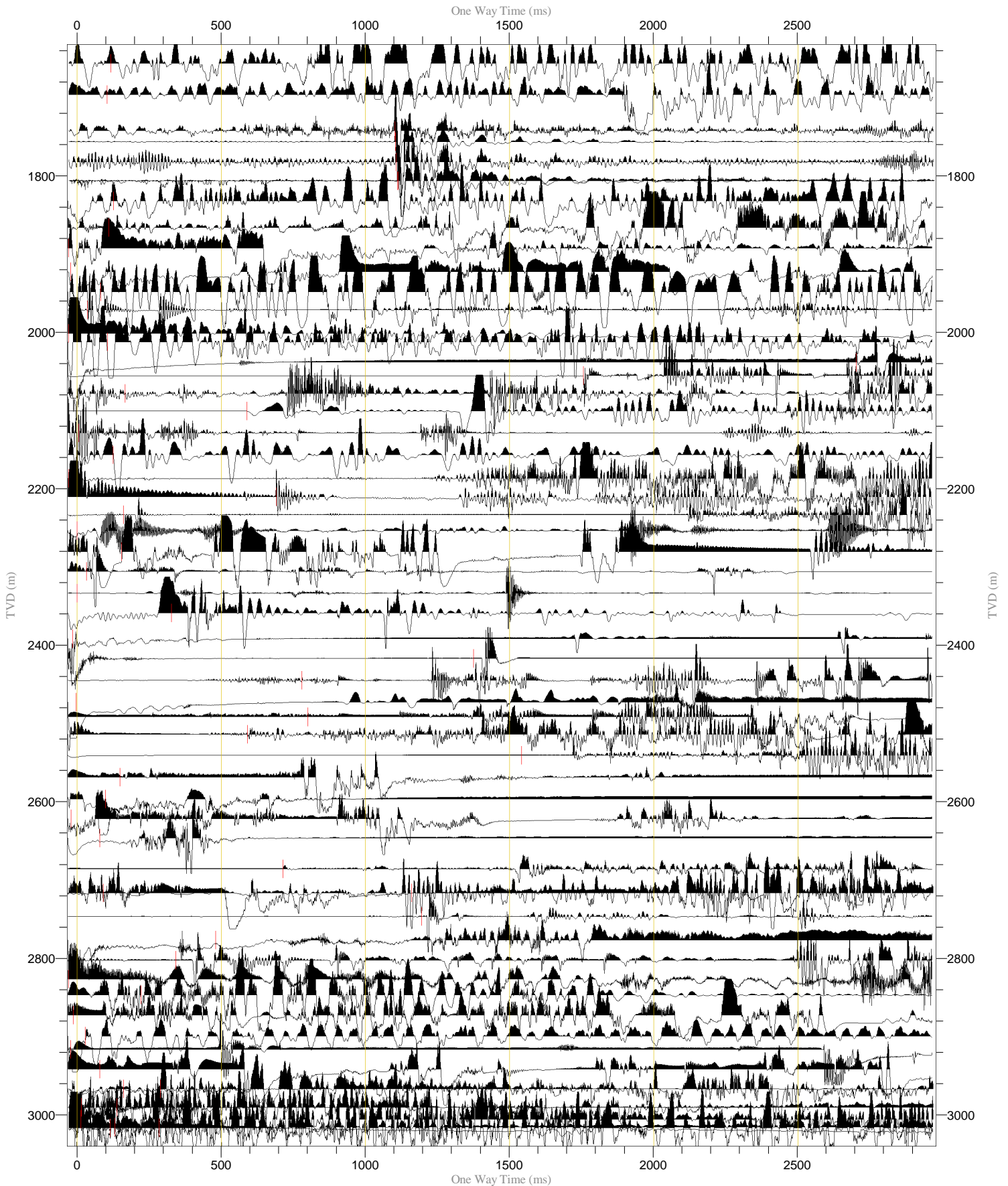
Raw Stack (Z)

Normalization Trace by Trace (250%)
Polarity Normal
One Way Time (ms)
Scaling 5.7 cm/sec, 1/6470



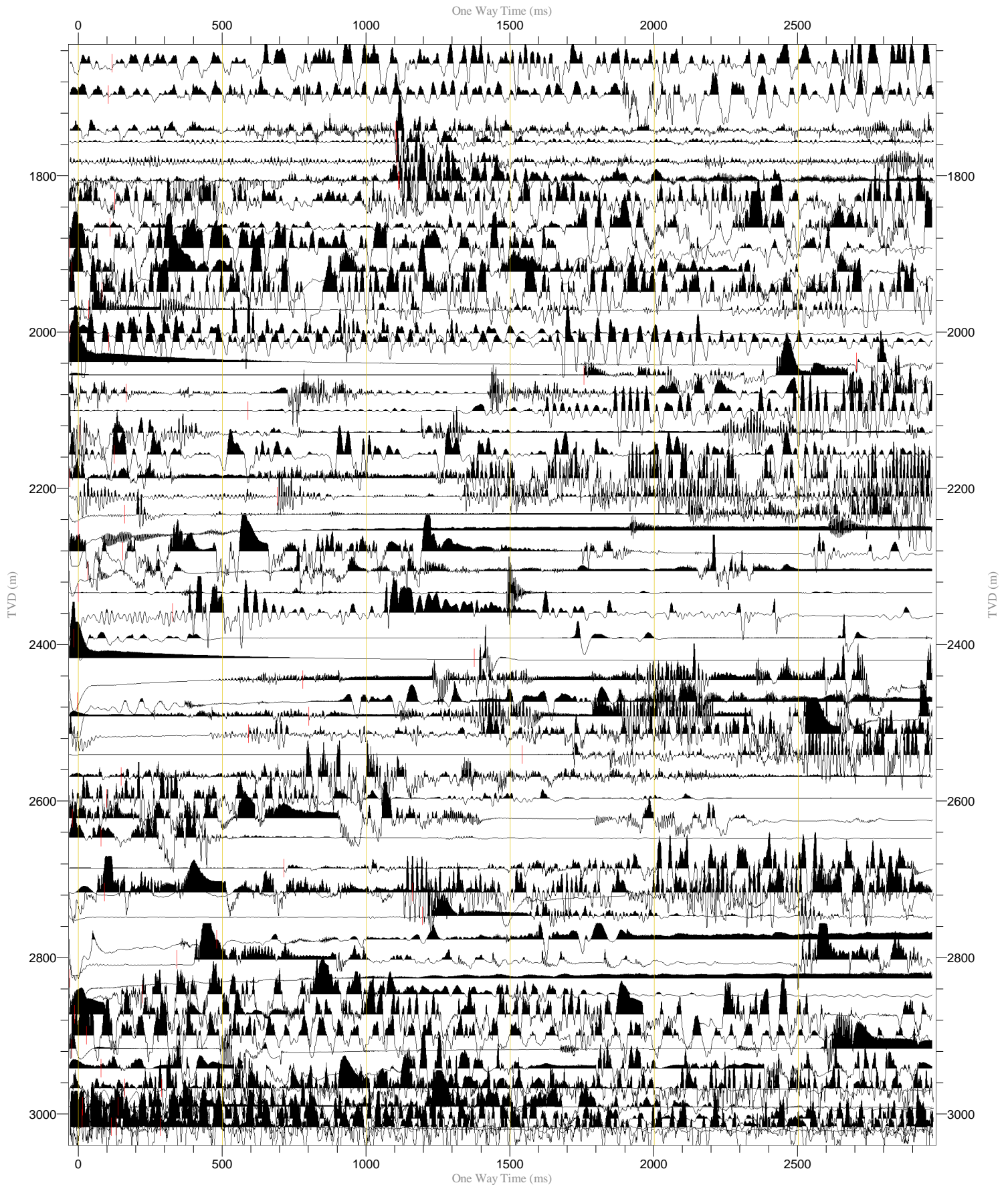
Raw Stack (X)

Normalization Trace by Trace (250%)
Polarity Normal
One Way Time (ms)
Scaling 5.7 cm/sec, 1/6470



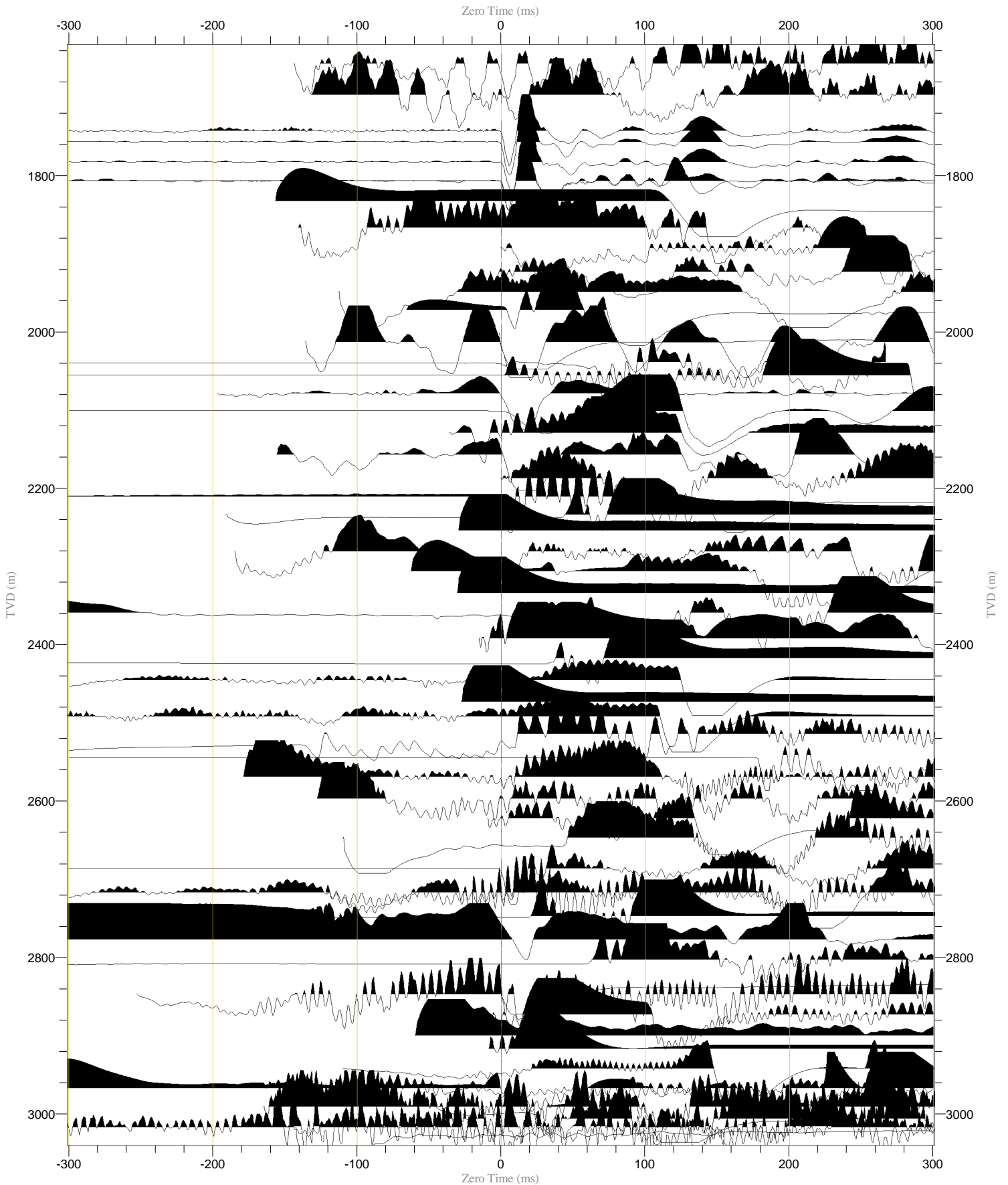
Raw Stack (Y)

Normalization Trace by Trace (250%)
Polarity Normal
One Way Time (ms)
Scaling 5.7 cm/sec, 1/6470



Raw Stack (Z) (Magnified)

Normalization Trace by Trace (250%)
Polarity Normal
Zero Time (ms)
Scaling 28.5 cm/sec, 1/6470



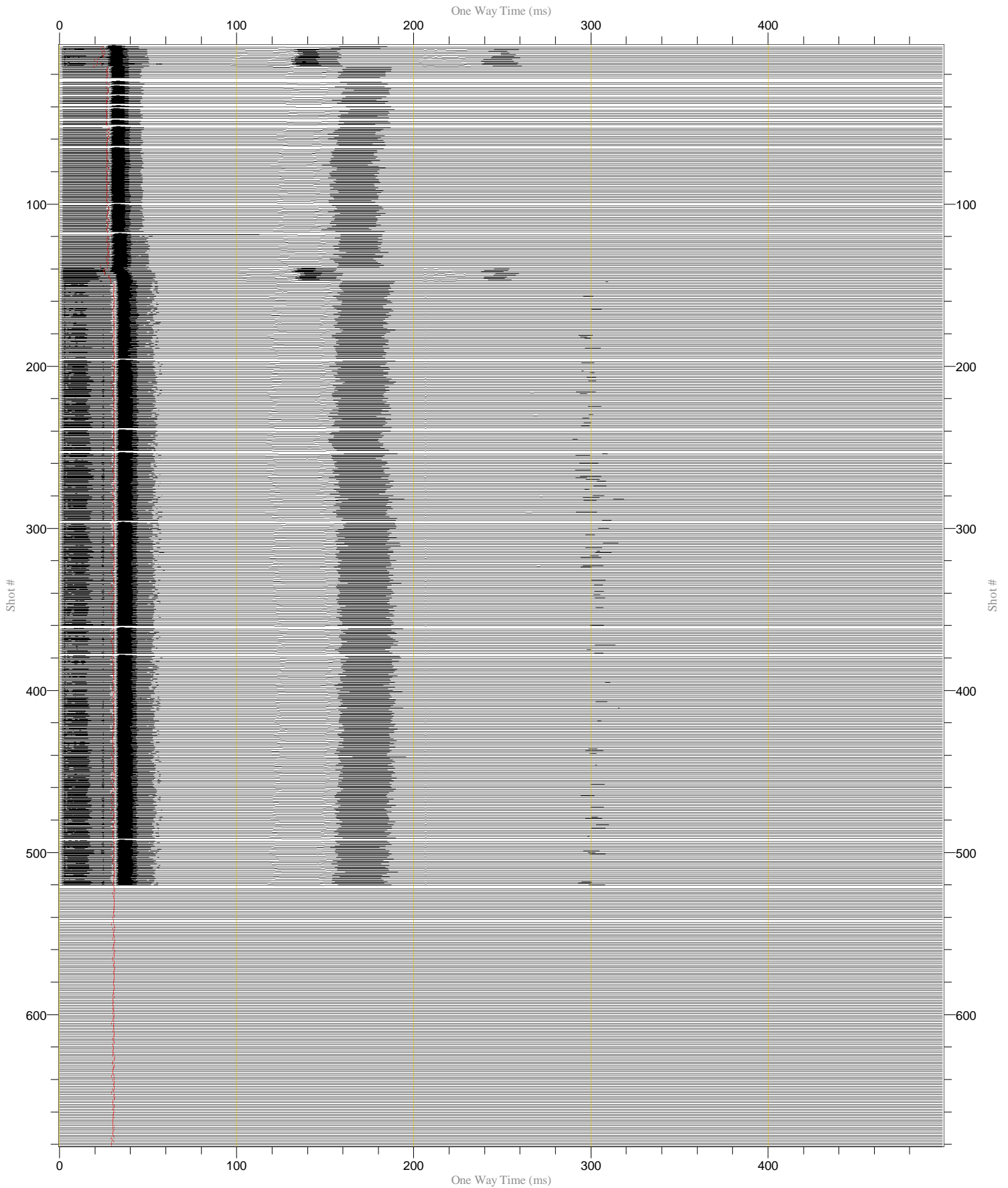
Source Sensor Signature

Normalization Trace by Trace (100%)

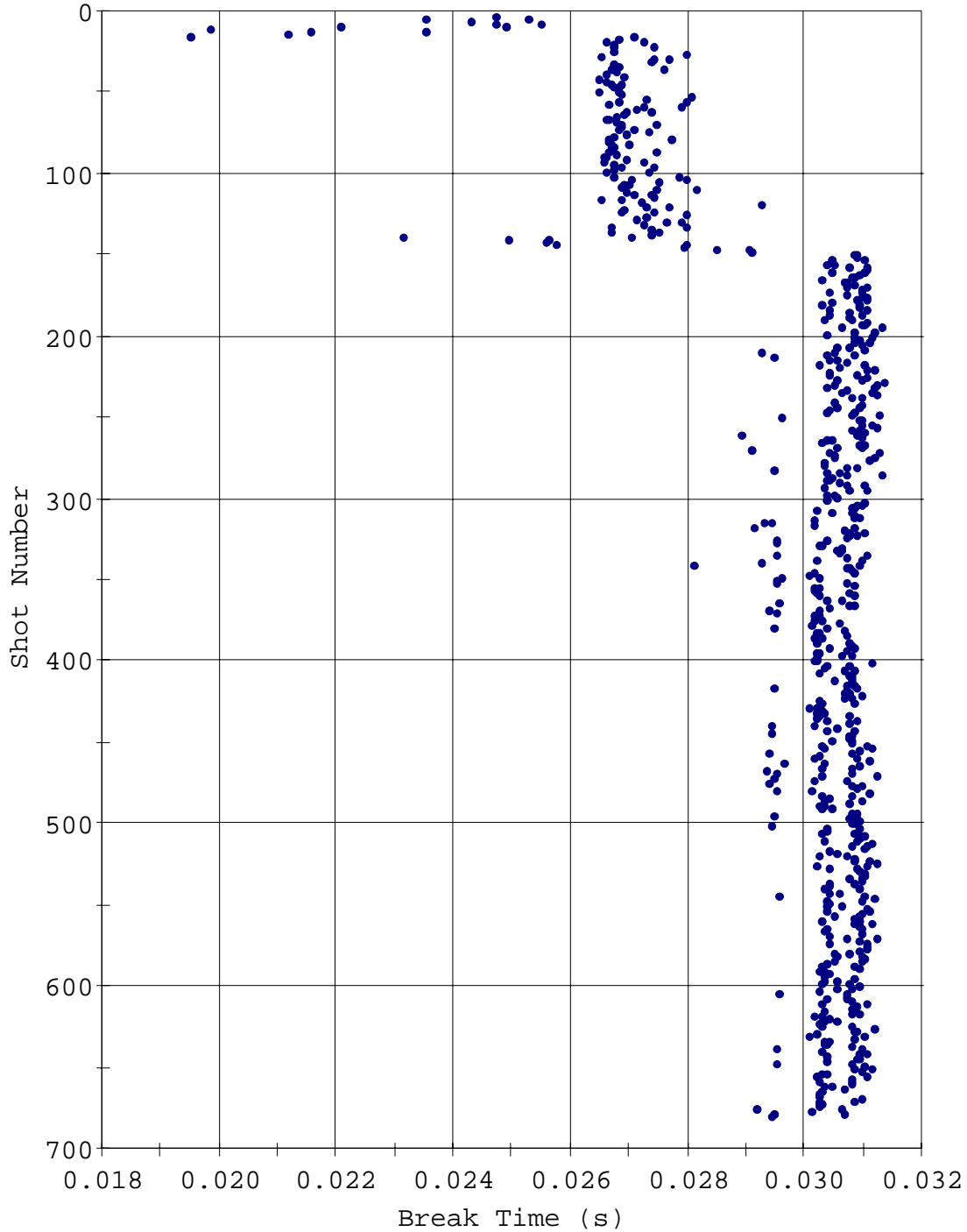
Polarity Normal

One Way Time (ms)

Scaling 34.99 cm/sec, 31.24/cm

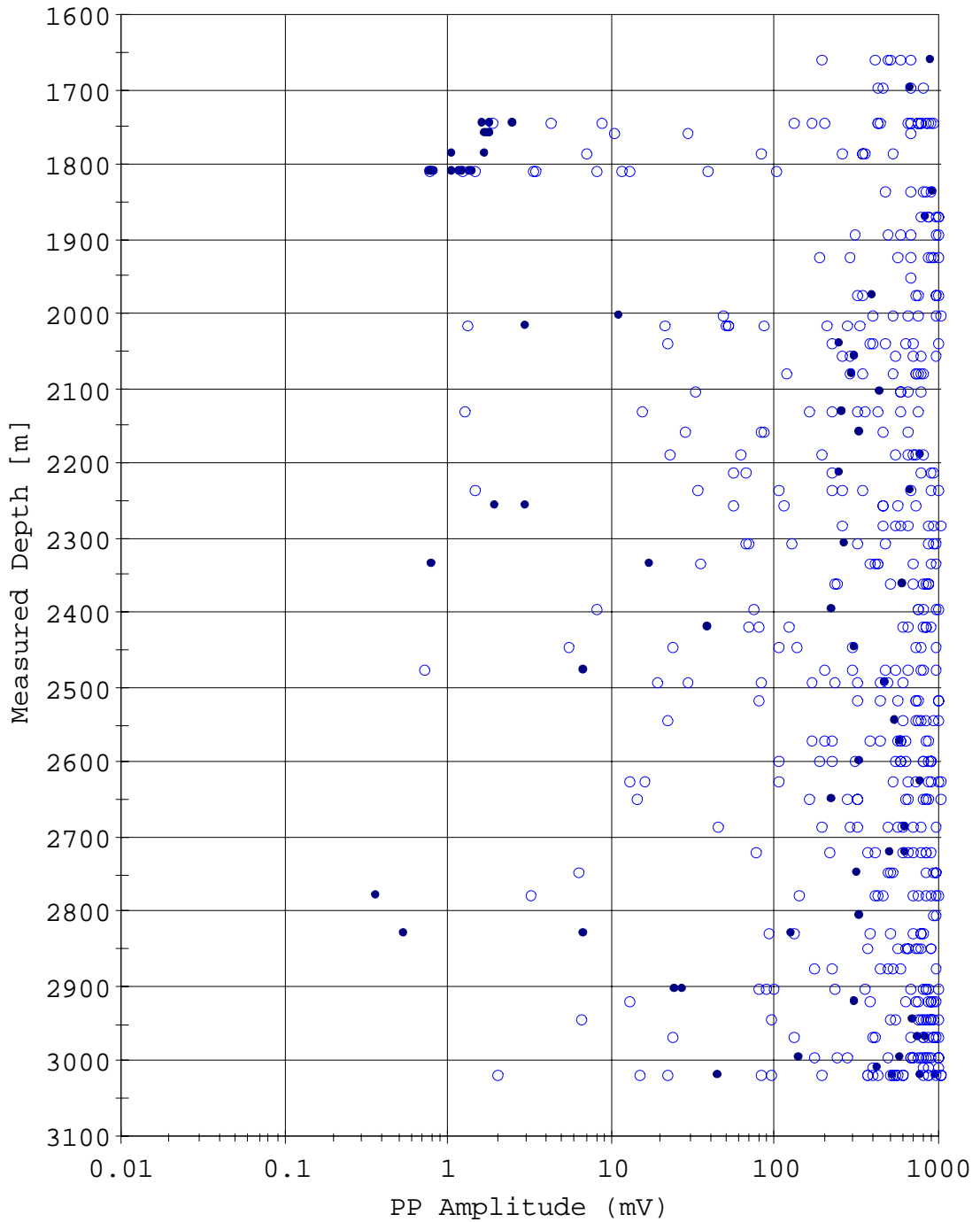


Surface Sensor QC Plot Page



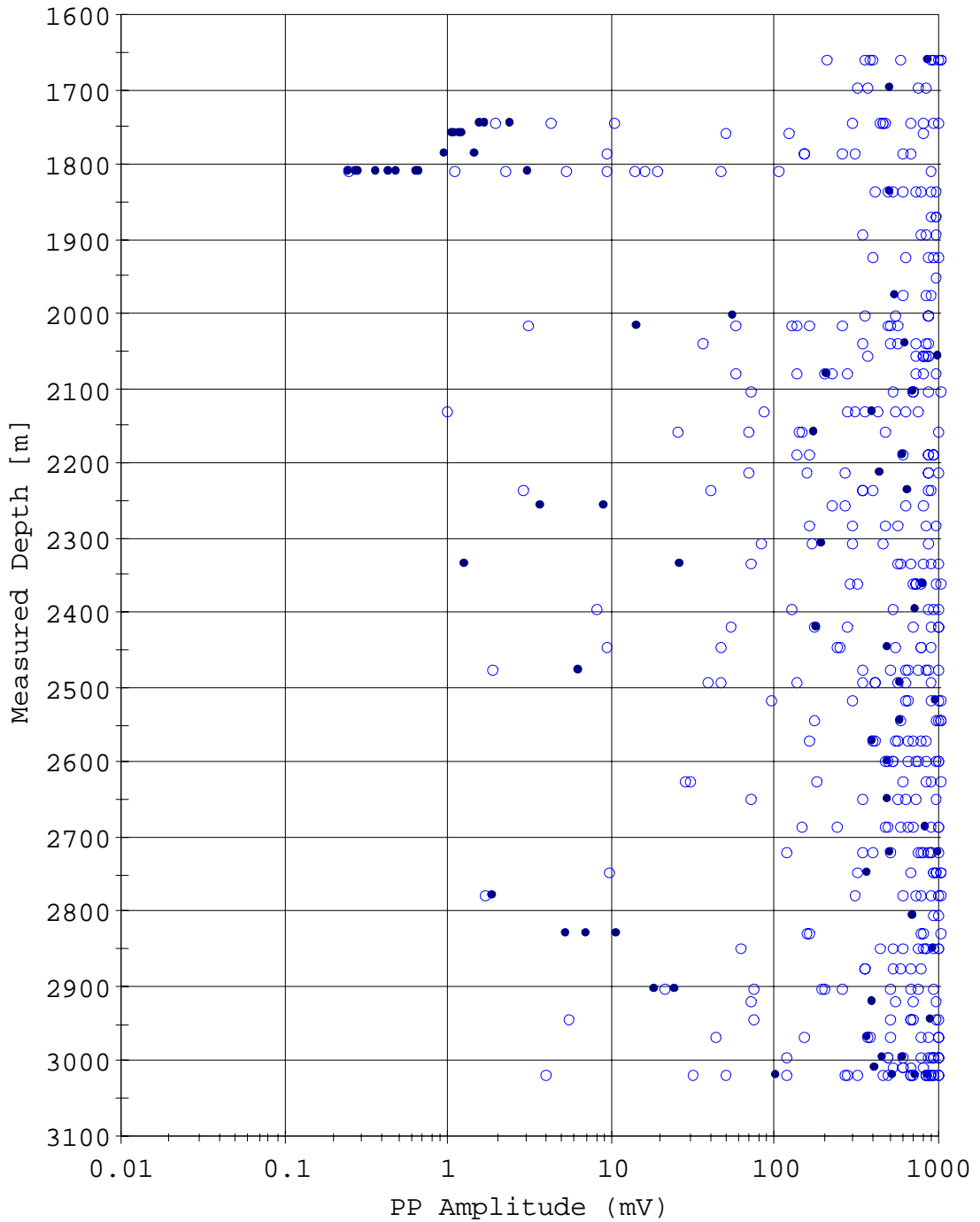
• Surface Sensor Break Time

Peak To Peak Plot (X)



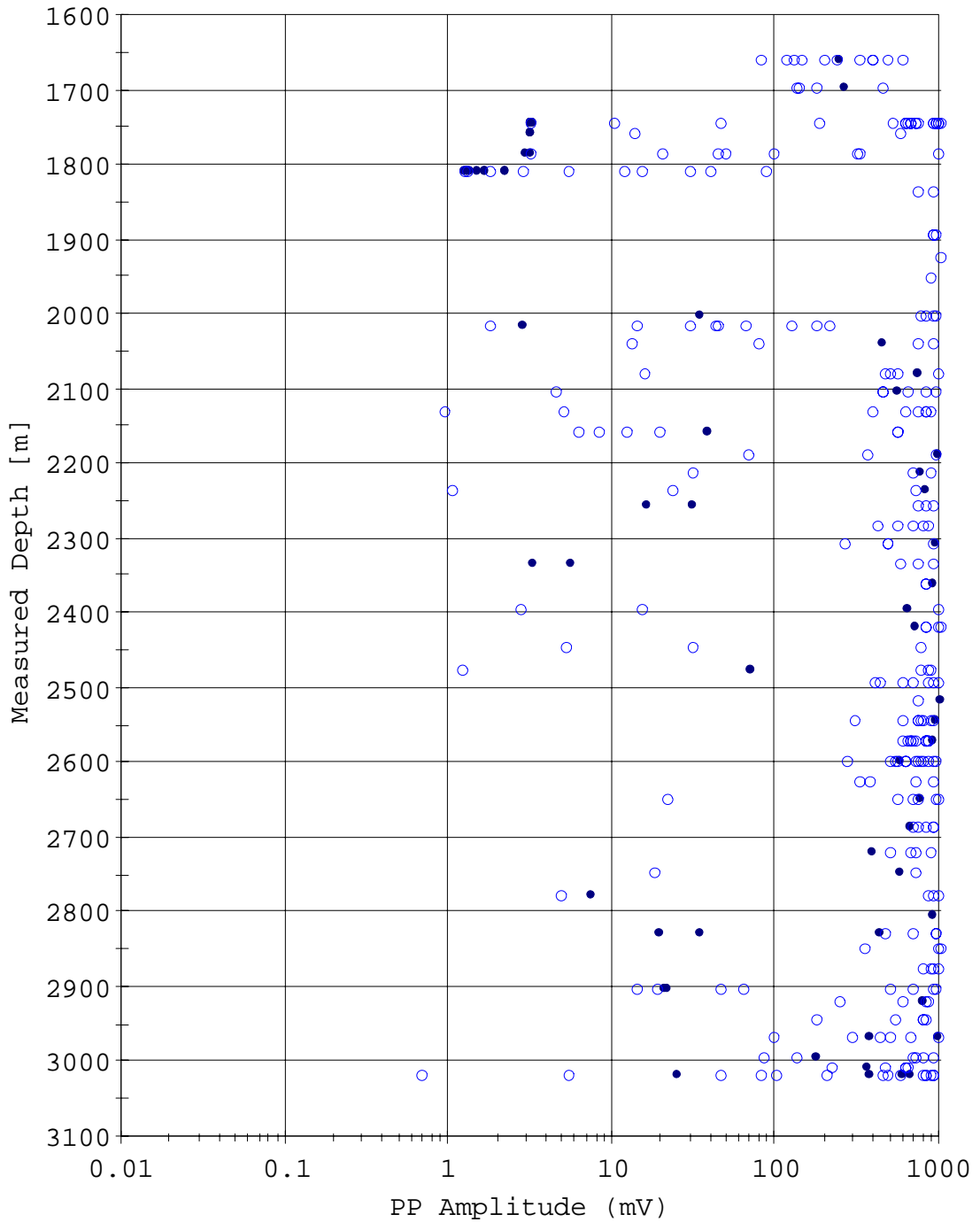
- PP Amplitude (mV) accepted for stack
- PP Amplitude (mV) rejected

Peak To Peak Plot (Y)



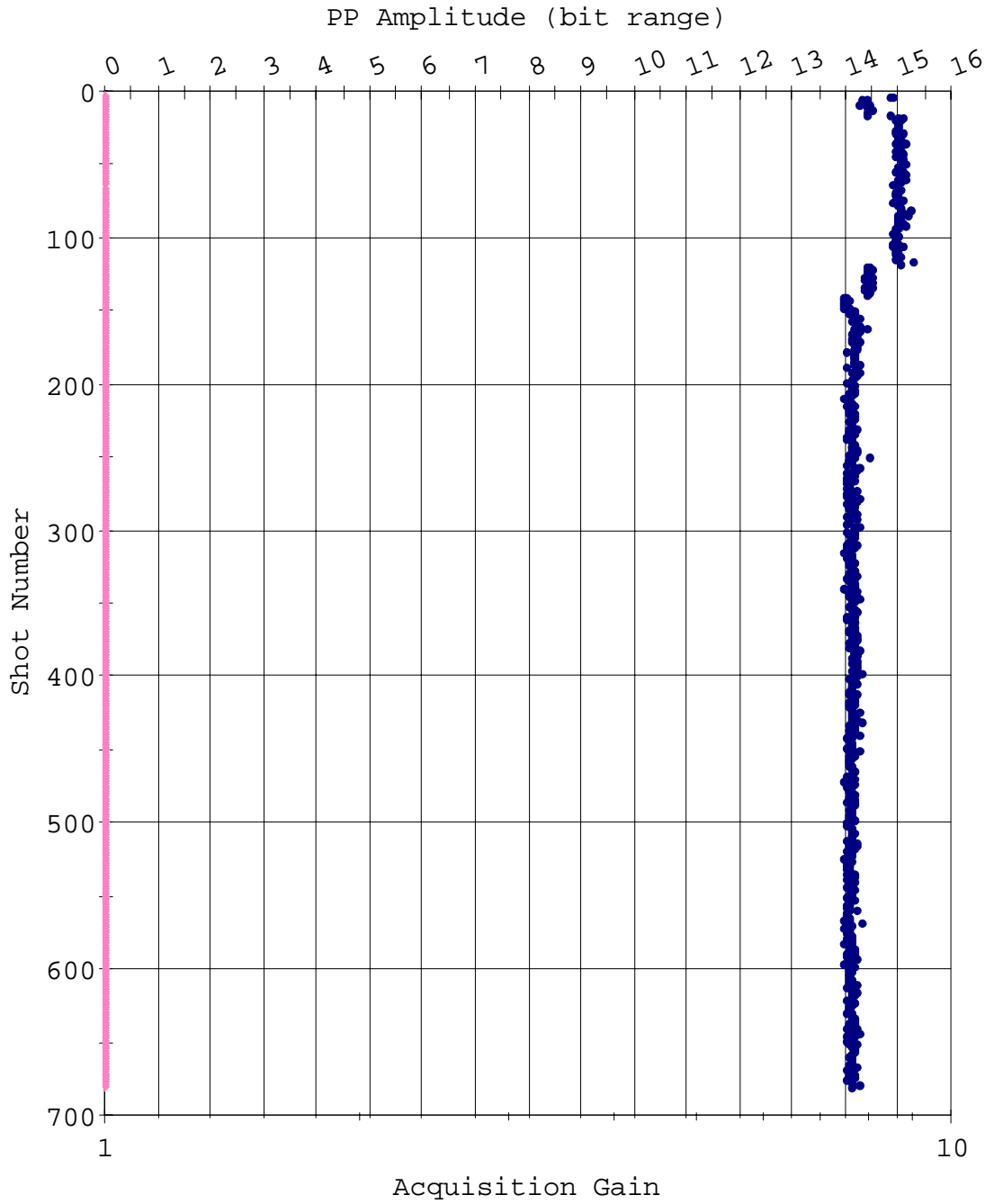
- PP Amplitude (mV) accepted for stack
- PP Amplitude (mV) rejected

Peak To Peak Plot (Z)



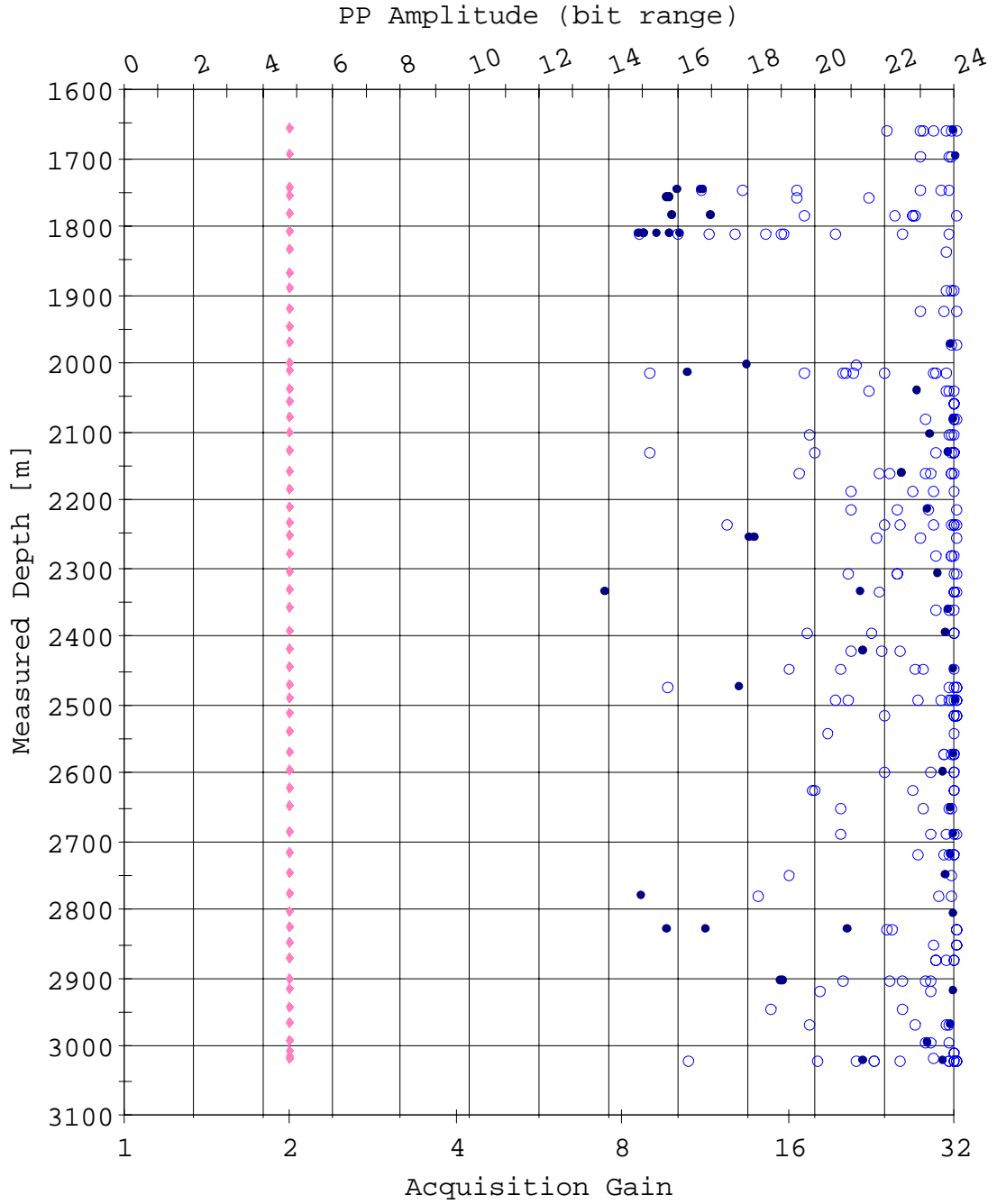
● PP Amplitude (mV) accepted for stack
○ PP Amplitude (mV) rejected

Amplitude QC Plot (Surface)



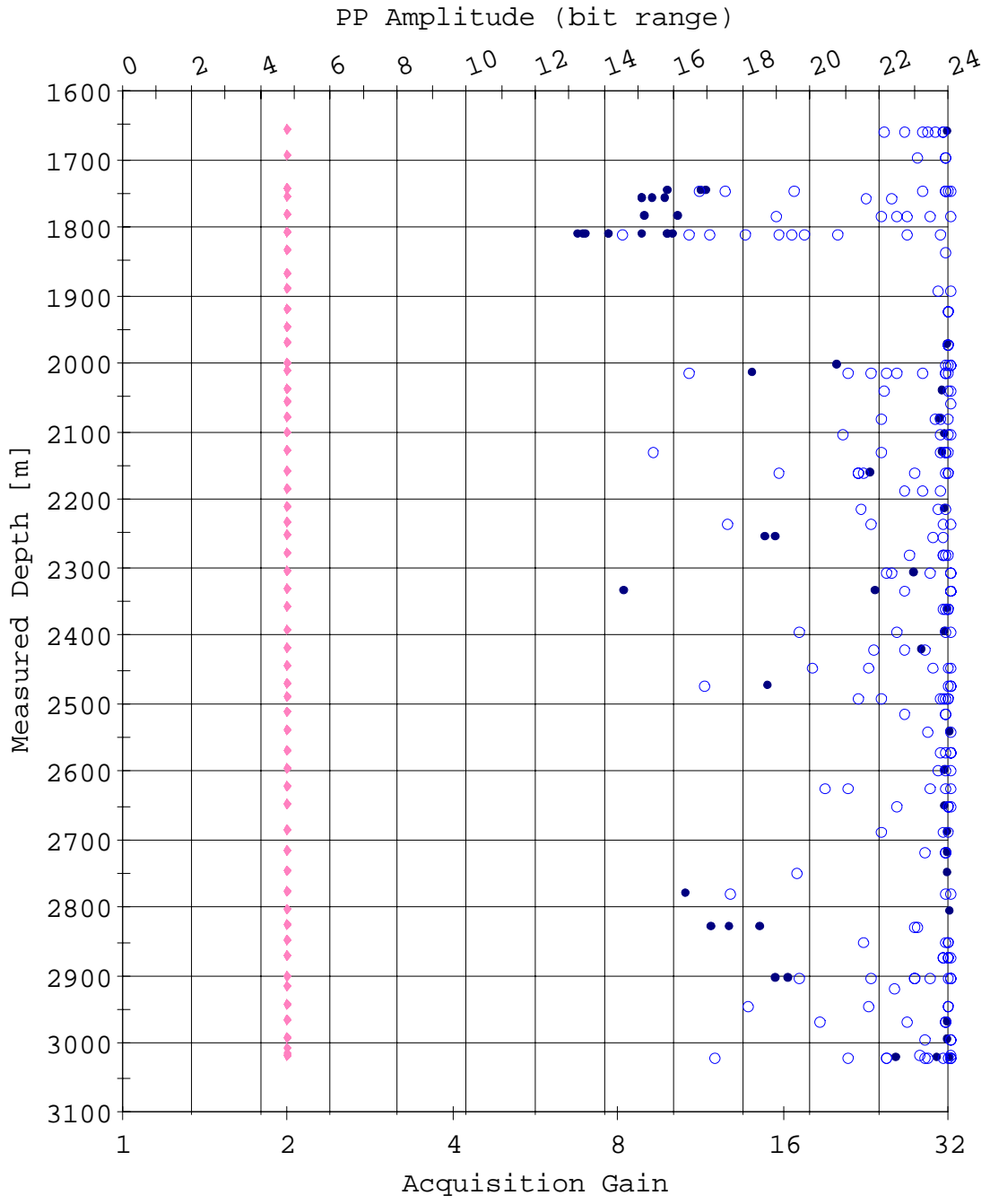
- PP Amplitude (bit range) accepted for stack
- PP Amplitude (bit range) rejected
- ◆ Acquisition Gain

Amplitude QC Plot (X)



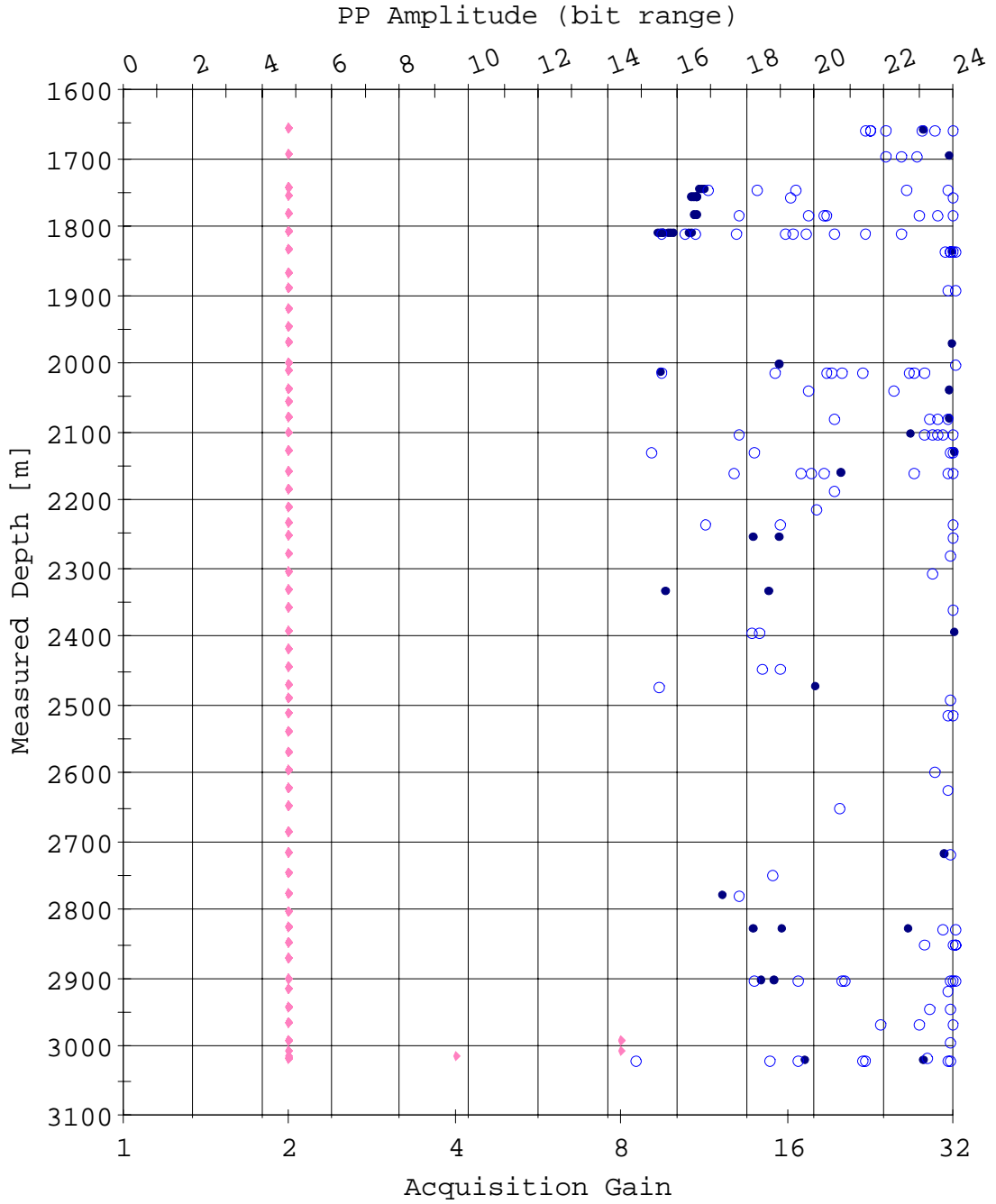
- PP Amplitude (bit range) accepted for stack
- PP Amplitude (bit range) rejected
- ◆ Acquisition Gain

Amplitude QC Plot (Y)



- PP Amplitude (bit range) accepted for stack
- PP Amplitude (bit range) rejected
- ◆ Acquisition Gain

Amplitude QC Plot (Z)



- PP Amplitude (bit range) accepted for stack
- PP Amplitude (bit range) rejected
- ◆ Acquisition Gain

Observer's Note (1/12)

Well depth [m]	Time	Shot Type	Shot#	Stack#	Source	Remarks
1806.0	14:04:05	SHAK	1			
1806.0	14:04:23	BKGD	2			
1806.0	14:04:45	SHOT	3	1	A	Warmup
1806.0	14:05:15	SHOT	4	1	A	Warmup
1806.0	14:06:17	SHOT	5	1	A	Gun1 only
1806.0	14:06:48	SHOT	6	1	A	Gun1 only
1806.0	14:08:05	SHOT	7	1	A	Gun1 only
1806.0	14:08:23	SHOT	8	1	A	Gun1 only
1806.0	14:08:42	SHOT	9	1	A	Gun1 only
1806.0	14:09:15	SHOT	10	1	A	Gun2only
1806.0	14:09:33	SHOT	11	1	A	Gun2only - marginal break
1806.0	14:09:51	SHOT	12	1	A	Gun2only
1806.0	14:10:21	SHOT	13	1	A	Gun2only
1806.0	14:10:39	SHOT	14	1	A	Gun2only
1806.0	14:11:06	SHOT	15	1	A	Gun2only
1806.0	14:13:05	SHOT	16	2	A	Shot 1 for actual station
1806.0	14:13:56	SHOT	17	2	A	
1806.0	14:14:26	SHOT	18	2	A	
1806.0	14:14:44	SHOT	19	2	A	Bad Shot - don't stack
1806.0	14:15:05	SHOT	20	2	A	
1806.0	14:15:23	SHOT	21	2	A	Bad shot
1806.0	14:15:42	SHOT	22	2	A	End of actual station at 1806.0m
3016.0	15:37:21	BKGD	23			
3016.0	15:37:43	SHAK	24			
3016.0	15:39:06	SHOT	25	3	A	
3016.0	15:40:46	SHOT	26	3	A	
3015.0	15:46:05	BKGD	27			
3015.0	15:47:51	SHOT	28	4	A	Noisy
3015.0	15:48:37	SHOT	29	4	A	
3015.0	15:49:41	SHOT	30	4	A	
3015.0	15:50:19	SHOT	31	4	A	Attempted z-gain x4, no better
3015.0	15:50:42	SHOT	32	4	A	returned to z-gain x2, all channels still very noisy; marginal anchor
3005.0	16:03:15	BKGD	33			
3005.0	16:03:35	SHOT	34	5	A	
3005.0	16:04:12	SHOT	35	5	A	
3005.0	16:04:44	SHOT	36	5	A	
3005.0	16:07:06	SHOT	37	5	A	
3005.0	16:09:12	SHOT	38	5	A	Bad
3005.0	16:09:58	BKGD	39			
3005.0	16:10:29	SHOT	40	5	A	No good shots on this station
2990.0	16:21:57	BKGD	41			
2990.0	16:22:19	SHOT	42	6	A	
2990.0	16:23:11	SHOT	43	6	A	
2990.0	16:23:40	SHOT	44	6	A	No good shots at this depth
2966.0	16:30:40	SHOT	45	7	A	
2966.0	16:31:02	SHOT	46	7	A	
2966.0	16:31:20	SHOT	47	7	A	No good shots
2716.0	16:52:12	BKGD	48			
2716.0	16:52:25	SHOT	49	8	A	
2716.0	16:52:44	SHOT	50	8	A	
2716.0	16:53:02	SHOT	51	8	A	No good shots
1782.0	20:06:05	BKGD	52			
1782.0	20:06:30	SHOT	53	9	A	
1782.0	20:06:50	SHOT	54	9	A	
1782.0	20:07:08	SHOT	55	9	A	Noise
1782.0	20:07:26	SHOT	56	9	A	
1782.0	20:07:45	SHOT	57	9	A	Good
1782.0	20:08:04	SHOT	58	9	A	
1782.0	20:08:22	SHOT	59	9	A	

Observer's Note (2/12)

Well depth [m]	Time	Shot Type	Shot#	Stack#	Source	Remarks
1782.0	20:08:40	SHOT	60	9	A	Good
1782.0	20:08:58	SHOT	61	9	A	
1782.0	20:09:16	SHOT	62	9	A	Good
1782.0	20:09:34	SHOT	63	9	A	Good
1782.0	20:09:52	SHOT	64	9	A	Marginal station -- had to keep pulling up to avoid zero head tension
1756.0	20:13:49	BKGD	65			
1756.0	20:14:04	SHOT	66	10	A	
1756.0	20:14:22	SHOT	67	10	A	Noisy
1756.0	20:14:40	SHOT	68	10	A	Good
1756.0	20:14:58	SHOT	69	10	A	Good
1756.0	20:15:16	SHOT	70	10	A	Noise
1756.0	20:15:34	SHOT	71	10	A	Good
1756.0	20:15:52	SHOT	72	10	A	Good
1742.0	20:20:38	SHOT	73	11	A	Noise
1742.0	20:20:56	SHOT	74	11	A	
1742.0	20:21:14	SHOT	75	11	A	
1742.0	20:21:32	SHOT	76	11	A	
1742.0	20:21:50	SHOT	77	11	A	
1742.0	20:22:13	SHOT	78	11	A	
1742.0	20:22:31	SHOT	79	11	A	
1742.0	20:22:50	SHOT	80	11	A	Good
1742.0	20:23:08	SHOT	81	11	A	
1742.0	20:23:26	SHOT	82	11	A	Good
1742.0	20:23:44	SHOT	83	11	A	Good
1742.0	20:24:06	SHOT	84	11	A	
1742.0	20:24:25	SHOT	85	11	A	
1742.0	20:24:44	SHOT	86	11	A	Good?
1742.0	20:25:22	SHOT	87	11	A	
1742.0	20:25:57	SHOT	88	11	A	
1742.0	20:26:15	SHOT	89	11	A	
1742.0	20:26:36	SHOT	90	11	A	
1742.0	20:26:55	SHOT	91	11	A	
1742.0	20:27:37	SHOT	92	11	A	
1742.0	20:27:55	SHOT	93	11	A	Good
1742.0	20:28:13	SHOT	94	11	A	
1742.0	20:28:31	SHOT	95	11	A	
1742.0	20:28:49	SHOT	96	11	A	
1742.0	20:29:07	SHOT	97	11	A	
1742.0	20:29:27	SHOT	98	11	A	
1742.0	20:29:45	SHOT	99	11	A	
1696.0	20:43:52	BKGD	100			
1696.0	20:44:02	SHOT	101	12	A	Noise
1696.0	20:44:20	SHOT	102	12	A	
1696.0	20:44:52	SHOT	103	12	A	
1696.0	20:45:11	SHOT	104	12	A	
1696.0	20:45:30	SHOT	105	12	A	Garbage Station
1656.0	20:55:17	SHOT	106	13	A	
1656.0	20:55:35	SHOT	107	13	A	
1656.0	20:55:53	SHOT	108	13	A	
1656.0	20:56:11	SHOT	109	13	A	
1656.0	20:56:29	SHOT	110	13	A	
1656.0	20:56:47	SHOT	111	13	A	
1656.0	20:57:05	SHOT	112	13	A	
1656.0	20:57:23	SHOT	113	13	A	
1656.0	20:57:41	SHOT	114	13	A	
1656.0	20:57:59	SHOT	115	13	A	
1656.0	20:58:17	SHOT	116	13	A	
1656.0	20:58:35	SHOT	117	13	A	
3016.0	13:11:02	BKGD	118			

Observer's Note (3/12)

Well depth [m]	Time	Shot Type	Shot#	Stack#	Source	Remarks
3016.0	13:11:14	SHOT	119	14	A	Good
3016.0	13:11:32	SHOT	120	14	A	Noise
3016.0	13:11:50	SHOT	121	14	A	Noise
3016.0	13:12:08	SHOT	122	14	A	
3016.0	13:12:27	SHOT	123	14	A	
3016.0	13:13:10	SHOT	124	14	A	
3016.0	13:13:28	SHOT	125	14	A	
3016.0	13:13:46	SHOT	126	14	A	
3016.0	13:14:04	SHOT	127	14	A	
3016.0	13:14:22	SHOT	128	14	A	
3016.0	13:14:40	SHOT	129	14	A	
3016.0	13:15:45	SHOT	130	14	A	
3016.0	13:16:03	SHOT	131	14	A	
3016.0	13:16:21	SHOT	132	14	A	?
3016.0	13:16:39	SHOT	133	14	A	
3016.0	13:16:57	SHOT	134	14	A	
3016.0	13:17:15	SHOT	135	14	A	
3016.0	13:17:33	SHOT	136	14	A	
3016.0	13:17:51	SHOT	137	14	A	
3016.0	13:18:09	SHOT	138	14	A	
3016.0	13:18:27	SHOT	139	14	A	
3016.0	13:19:17	SHOT	140	14	A	
3016.0	13:19:41	SHOT	141	14	A	
3016.0	13:19:59	SHOT	142	14	A	
3016.0	13:20:17	SHOT	143	14	A	Good
3016.0	13:20:35	SHOT	144	14	A	Noise
3016.0	13:20:54	SHOT	145	14	A	Good?
3016.0	13:21:12	SHOT	146	14	A	
3016.0	13:21:30	SHOT	147	14	A	
3016.0	13:22:12	SHOT	148	14	A	
2990.0	13:27:51	SHOT	149	15	A	
2990.0	13:28:09	SHOT	150	15	A	
2990.0	13:28:27	SHOT	151	15	A	
2990.0	13:28:50	SHOT	152	15	A	?
2990.0	13:29:15	SHOT	153	15	A	
2990.0	13:29:40	SHOT	154	15	A	
2990.0	13:30:11	SHOT	155	15	A	
2990.0	13:30:30	SHOT	156	15	A	
2990.0	13:30:53	SHOT	157	15	A	
2990.0	13:31:12	SHOT	158	15	A	
2990.0	13:31:30	SHOT	159	15	A	
2990.0	13:31:53	SHOT	160	15	A	
2990.0	13:32:21	SHOT	161	15	A	
2990.0	13:32:39	SHOT	162	15	A	
2990.0	13:32:57	SHOT	163	15	A	
2990.0	13:33:16	SHOT	164	15	A	
2966.0	13:39:01	SHOT	165	16	A	Good
2966.0	13:39:19	SHOT	166	16	A	
2966.0	13:39:37	SHOT	167	16	A	
2966.0	13:39:55	SHOT	168	16	A	?
2966.0	13:40:14	SHOT	169	16	A	Good
2966.0	13:40:32	SHOT	170	16	A	?
2966.0	13:40:54	SHOT	171	16	A	
2966.0	13:41:12	SHOT	172	16	A	
2966.0	13:41:30	SHOT	173	16	A	?
2966.0	13:41:48	SHOT	174	16	A	
2966.0	13:42:06	SHOT	175	16	A	
2966.0	13:42:27	SHOT	176	16	A	
2966.0	13:42:46	SHOT	177	16	A	

Observer's Note (4/12)

Well depth [m]	Time	Shot Type	Shot#	Stack#	Source	Remarks
2941.0	13:48:12	SHOT	178	17	A	Noise
2941.0	13:48:30	SHOT	179	17	A	
2941.0	13:48:49	SHOT	180	17	A	
2941.0	13:49:07	SHOT	181	17	A	Good
2941.0	13:49:27	SHOT	182	17	A	
2941.0	13:49:45	SHOT	183	17	A	
2941.0	13:50:14	SHOT	184	17	A	?
2941.0	13:50:33	SHOT	185	17	A	
2941.0	13:50:51	SHOT	186	17	A	
2941.0	13:51:09	SHOT	187	17	A	
2941.0	13:51:27	SHOT	188	17	A	
2941.0	13:51:45	SHOT	189	17	A	Good
2941.0	13:52:04	SHOT	190	17	A	
2941.0	13:52:22	SHOT	191	17	A	
2941.0	13:52:40	SHOT	192	17	A	
2941.0	13:52:58	SHOT	193	17	A	
2941.0	13:53:16	SHOT	194	17	A	
2941.0	13:53:34	SHOT	195	17	A	
2916.0	13:59:42	BKGD	196			
2916.0	13:59:55	SHOT	197	18	A	
2916.0	14:00:13	SHOT	198	18	A	
2916.0	14:00:31	SHOT	199	18	A	
2916.0	14:00:50	SHOT	200	18	A	?
2916.0	14:01:32	SHOT	201	18	A	
2916.0	14:01:50	SHOT	202	18	A	
2916.0	14:02:08	SHOT	203	18	A	
2916.0	14:02:26	SHOT	204	18	A	
2916.0	14:02:44	SHOT	205	18	A	
2916.0	14:03:02	SHOT	206	18	A	
2916.0	14:03:20	SHOT	207	18	A	
2916.0	14:03:38	SHOT	208	18	A	
2916.0	14:03:56	SHOT	209	18	A	
2916.0	14:04:14	SHOT	210	18	A	
2899.0	14:08:29	SHOT	211	19	A	?
2899.0	14:08:47	SHOT	212	19	A	
2899.0	14:09:05	SHOT	213	19	A	Good?
2899.0	14:09:23	SHOT	214	19	A	
2899.0	14:09:41	SHOT	215	19	A	
2899.0	14:09:59	SHOT	216	19	A	?
2899.0	14:10:18	SHOT	217	19	A	
2899.0	14:10:36	SHOT	218	19	A	
2899.0	14:10:54	SHOT	219	19	A	?
2899.0	14:11:12	SHOT	220	19	A	
2899.0	14:11:31	SHOT	221	19	A	?
2899.0	14:11:54	SHOT	222	19	A	Good?
2899.0	14:12:12	SHOT	223	19	A	?
2872.0	14:18:46	SHOT	224	20	A	
2872.0	14:19:04	SHOT	225	20	A	
2872.0	14:19:43	SHOT	226	20	A	
2872.0	14:20:01	SHOT	227	20	A	
2872.0	14:20:19	SHOT	228	20	A	
2872.0	14:20:37	SHOT	229	20	A	
2872.0	14:20:55	SHOT	230	20	A	
2872.0	14:21:14	SHOT	231	20	A	
2872.0	14:21:32	SHOT	232	20	A	
2872.0	14:21:50	SHOT	233	20	A	
2872.0	14:22:08	SHOT	234	20	A	
2872.0	14:22:26	SHOT	235	20	A	
2872.0	14:22:44	SHOT	236	20	A	

Observer's Note (5/12)

Well depth [m]	Time	Shot Type	Shot#	Stack#	Source	Remarks
2872.0	14:23:02	SHOT	237	20	A	
2872.0	14:23:20	SHOT	238	20	A	
2846.0	14:26:57	BKGD	239			
2846.0	14:27:09	SHOT	240	21	A	
2846.0	14:27:27	SHOT	241	21	A	
2846.0	14:27:45	SHOT	242	21	A	
2846.0	14:28:03	SHOT	243	21	A	
2846.0	14:28:23	SHOT	244	21	A	
2846.0	14:28:41	SHOT	245	21	A	
2846.0	14:28:59	SHOT	246	21	A	
2846.0	14:29:17	SHOT	247	21	A	
2846.0	14:29:35	SHOT	248	21	A	
2846.0	14:29:54	SHOT	249	21	A	?
2846.0	14:30:28	SHOT	250	21	A	
2846.0	14:30:47	SHOT	251	21	A	?
2846.0	14:31:07	SHOT	252	21	A	
2826.0	14:36:07	SHAK	253			
2826.0	14:36:27	SHOT	254	22	A	?
2826.0	14:36:46	SHOT	255	22	A	
2826.0	14:37:04	SHOT	256	22	A	
2826.0	14:37:22	SHOT	257	22	A	
2826.0	14:37:43	SHOT	258	22	A	
2826.0	14:38:01	SHOT	259	22	A	
2826.0	14:38:19	SHOT	260	22	A	
2826.0	14:38:37	SHOT	261	22	A	
2826.0	14:38:56	SHOT	262	22	A	
2826.0	14:39:14	SHOT	263	22	A	
2826.0	14:39:32	SHOT	264	22	A	
2826.0	14:39:50	SHOT	265	22	A	
2826.0	14:40:08	SHOT	266	22	A	
2826.0	14:40:26	SHOT	267	22	A	
2826.0	14:40:44	SHOT	268	22	A	
2826.0	14:41:02	SHOT	269	22	A	
2826.0	14:41:20	SHOT	270	22	A	
2802.0	14:50:42	SHOT	271	23	A	
2802.0	14:51:00	SHOT	272	23	A	
2802.0	14:51:20	SHOT	273	23	A	
2802.0	14:51:52	SHOT	274	23	A	
2802.0	14:52:10	SHOT	275	23	A	
2802.0	14:52:28	SHOT	276	23	A	
2802.0	14:52:46	SHOT	277	23	A	
2802.0	14:53:04	SHOT	278	23	A	
2802.0	14:53:22	SHOT	279	23	A	
2802.0	14:53:41	SHOT	280	23	A	
2802.0	14:53:59	SHOT	281	23	A	
2776.0	15:00:58	SHOT	282	24	A	
2776.0	15:01:16	SHOT	283	24	A	
2776.0	15:01:35	SHOT	284	24	A	
2776.0	15:01:53	SHOT	285	24	A	
2776.0	15:02:11	SHOT	286	24	A	
2776.0	15:02:29	SHOT	287	24	A	
2776.0	15:02:51	SHOT	288	24	A	?
2776.0	15:03:15	SHOT	289	24	A	
2776.0	15:03:33	SHOT	290	24	A	
2776.0	15:04:04	SHOT	291	24	A	
2776.0	15:04:22	SHOT	292	24	A	
2776.0	15:04:40	SHOT	293	24	A	
2776.0	15:04:59	SHOT	294	24	A	
2746.0	15:14:51	SHOT	295	25	A	

Observer's Note (6/12)

Well depth [m]	Time	Shot Type	Shot#	Stack#	Source	Remarks
2746.0	15:15:09	BKGD	296			
2746.0	15:15:18	SHOT	297	25	A	?
2746.0	15:15:40	SHOT	298	25	A	Good
2746.0	15:15:59	SHOT	299	25	A	
2746.0	15:16:17	SHOT	300	25	A	
2746.0	15:16:35	SHOT	301	25	A	
2746.0	15:16:53	SHOT	302	25	A	
2746.0	15:17:11	SHOT	303	25	A	
2746.0	15:17:29	SHOT	304	25	A	
2746.0	15:17:54	SHOT	305	25	A	?
2746.0	15:18:13	SHOT	306	25	A	
2746.0	15:18:31	SHOT	307	25	A	
2746.0	15:18:49	SHOT	308	25	A	
2716.0	15:22:52	SHOT	309	26	A	
2716.0	15:23:10	SHOT	310	26	A	
2716.0	15:23:28	SHOT	311	26	A	
2716.0	15:23:46	SHOT	312	26	A	?
2716.0	15:24:04	SHOT	313	26	A	
2716.0	15:24:23	SHOT	314	26	A	
2716.0	15:24:41	SHOT	315	26	A	
2716.0	15:24:59	SHOT	316	26	A	
2716.0	15:25:17	SHOT	317	26	A	
2716.0	15:25:35	SHOT	318	26	A	
2716.0	15:25:54	SHOT	319	26	A	
2685.0	15:31:15	SHOT	320	27	A	
2685.0	15:31:33	SHOT	321	27	A	
2685.0	15:31:51	SHOT	322	27	A	
2685.0	15:32:09	SHOT	323	27	A	
2685.0	15:32:27	SHOT	324	27	A	
2685.0	15:32:45	SHOT	325	27	A	
2685.0	15:33:03	SHOT	326	27	A	
2685.0	15:33:21	SHOT	327	27	A	
2685.0	15:33:40	SHOT	328	27	A	?
2685.0	15:33:58	SHOT	329	27	A	
2685.0	15:34:21	SHOT	330	27	A	
2685.0	15:34:39	SHOT	331	27	A	
2685.0	15:34:57	SHOT	332	27	A	
2685.0	15:35:15	SHOT	333	27	A	?
2646.0	15:40:29	SHOT	334	28	A	
2646.0	15:40:48	SHOT	335	28	A	
2646.0	15:41:06	SHOT	336	28	A	?
2646.0	15:41:24	SHOT	337	28	A	?
2646.0	15:41:42	SHOT	338	28	A	
2646.0	15:42:01	SHOT	339	28	A	
2646.0	15:42:19	SHOT	340	28	A	
2646.0	15:42:37	SHOT	341	28	A	
2646.0	15:42:55	SHOT	342	28	A	
2646.0	15:43:14	SHOT	343	28	A	
2646.0	15:43:32	SHOT	344	28	A	
2646.0	15:43:50	SHOT	345	28	A	
2646.0	15:44:08	SHOT	346	28	A	
2646.0	15:44:26	SHOT	347	28	A	
2621.0	15:48:23	SHOT	348	29	A	
2621.0	15:48:41	SHOT	349	29	A	
2621.0	15:48:59	SHOT	350	29	A	
2621.0	15:49:18	SHOT	351	29	A	
2621.0	15:49:36	SHOT	352	29	A	
2621.0	15:49:54	SHOT	353	29	A	
2621.0	15:50:15	SHOT	354	29	A	

Observer's Note (7/12)

Well depth [m]	Time	Shot Type	Shot#	Stack#	Source	Remarks
2621.0	15:50:34	SHOT	355	29	A	?
2621.0	15:50:54	SHOT	356	29	A	
2621.0	15:51:17	SHOT	357	29	A	
2621.0	15:51:35	SHOT	358	29	A	
2621.0	15:52:01	SHOT	359	29	A	
2621.0	15:52:19	SHOT	360	29	A	
2596.0	15:57:09	BKGD	361			AHC Off
2596.0	15:57:43	SHOT	362	30	A	
2596.0	15:58:01	SHOT	363	30	A	
2596.0	15:58:19	SHOT	364	30	A	
2596.0	15:58:37	SHOT	365	30	A	
2596.0	15:58:55	SHOT	366	30	A	
2596.0	15:59:13	SHOT	367	30	A	
2596.0	15:59:31	SHOT	368	30	A	
2596.0	15:59:50	SHOT	369	30	A	
2596.0	16:00:09	SHOT	370	30	A	
2596.0	16:00:27	SHOT	371	30	A	?
2596.0	16:00:45	SHOT	372	30	A	?
2596.0	16:01:03	SHOT	373	30	A	
2596.0	16:01:21	SHOT	374	30	A	
2596.0	16:01:49	SHOT	375	30	A	
2596.0	16:02:08	SHOT	376	30	A	?
2596.0	16:02:31	SHOT	377	30	A	
2568.0	16:08:24	BKGD	378			
2568.0	16:08:37	SHOT	379	31	A	
2568.0	16:08:56	SHOT	380	31	A	Good!
2568.0	16:09:14	SHOT	381	31	A	
2568.0	16:09:32	SHOT	382	31	A	
2568.0	16:09:50	SHOT	383	31	A	
2568.0	16:10:14	SHOT	384	31	A	
2568.0	16:10:32	SHOT	385	31	A	
2568.0	16:10:50	SHOT	386	31	A	
2568.0	16:11:09	SHOT	387	31	A	
2568.0	16:11:27	SHOT	388	31	A	
2568.0	16:11:45	SHOT	389	31	A	
2568.0	16:12:03	SHOT	390	31	A	
2540.0	16:18:17	SHOT	391	32	A	
2540.0	16:18:35	SHOT	392	32	A	
2540.0	16:18:53	SHOT	393	32	A	
2540.0	16:19:11	SHOT	394	32	A	
2540.0	16:19:29	SHOT	395	32	A	
2540.0	16:19:47	SHOT	396	32	A	
2540.0	16:20:05	SHOT	397	32	A	
2540.0	16:20:24	SHOT	398	32	A	
2540.0	16:20:42	SHOT	399	32	A	
2540.0	16:21:00	SHOT	400	32	A	Closed caliper -- read 6", indicating a bent tip
2513.0	16:32:15	SHOT	401	33	A	AHC On
2513.0	16:32:33	SHOT	402	33	A	
2513.0	16:32:51	SHOT	403	33	A	
2513.0	16:33:09	SHOT	404	33	A	
2513.0	16:33:27	SHOT	405	33	A	
2513.0	16:33:45	SHOT	406	33	A	
2513.0	16:34:03	SHOT	407	33	A	
2513.0	16:34:21	SHOT	408	33	A	
2513.0	16:34:40	SHOT	409	33	A	
2513.0	16:34:58	SHOT	410	33	A	
2491.0	16:39:10	SHOT	411	34	A	
2491.0	16:39:28	SHOT	412	34	A	
2491.0	16:39:46	SHOT	413	34	A	?

Observer's Note (8/12)

Well depth [m]	Time	Shot Type	Shot#	Stack#	Source	Remarks
2491.0	16:40:04	SHOT	414	34	A	
2491.0	16:40:22	SHOT	415	34	A	
2491.0	16:40:40	SHOT	416	34	A	
2491.0	16:41:02	SHOT	417	34	A	
2491.0	16:41:20	SHOT	418	34	A	
2491.0	16:41:38	SHOT	419	34	A	?
2491.0	16:41:56	SHOT	420	34	A	
2472.0	16:45:33	SHOT	421	35	A	
2472.0	16:45:51	SHOT	422	35	A	
2472.0	16:46:09	SHOT	423	35	A	?
2472.0	16:46:37	SHOT	424	35	A	?
2472.0	16:46:55	SHOT	425	35	A	
2472.0	16:47:13	SHOT	426	35	A	
2472.0	16:47:31	SHOT	427	35	A	
2472.0	16:47:50	SHOT	428	35	A	
2472.0	16:48:08	SHOT	429	35	A	?
2472.0	16:48:28	SHOT	430	35	A	
2444.0	16:52:20	SHOT	431	36	A	
2444.0	16:52:38	SHOT	432	36	A	
2444.0	16:52:58	SHOT	433	36	A	
2444.0	16:53:16	SHOT	434	36	A	
2444.0	16:53:35	SHOT	435	36	A	
2444.0	16:53:53	SHOT	436	36	A	
2444.0	16:54:11	SHOT	437	36	A	
2444.0	16:54:29	SHOT	438	36	A	?
2444.0	16:54:48	SHOT	439	36	A	
2444.0	16:55:06	SHOT	440	36	A	
2416.0	17:00:48	SHOT	441	37	A	Good-ish
2416.0	17:01:12	SHOT	442	37	A	
2416.0	17:01:30	SHOT	443	37	A	
2416.0	17:01:48	SHOT	444	37	A	
2416.0	17:02:06	SHOT	445	37	A	
2416.0	17:02:24	SHOT	446	37	A	
2416.0	17:02:43	SHOT	447	37	A	
2416.0	17:03:01	SHOT	448	37	A	
2416.0	17:03:19	SHOT	449	37	A	
2416.0	17:03:37	SHOT	450	37	A	
2391.0	17:09:51	SHOT	451	38	A	
2391.0	17:10:09	SHOT	452	38	A	
2391.0	17:10:27	SHOT	453	38	A	
2391.0	17:10:45	SHOT	454	38	A	
2391.0	17:11:03	SHOT	455	38	A	
2391.0	17:11:21	SHOT	456	38	A	?
2391.0	17:11:39	SHOT	457	38	A	
2391.0	17:11:58	SHOT	458	38	A	
2391.0	17:12:16	SHOT	459	38	A	
2391.0	17:12:34	SHOT	460	38	A	
2358.0	17:17:31	SHOT	461	39	A	
2358.0	17:18:04	SHOT	462	39	A	
2358.0	17:18:22	SHOT	463	39	A	
2358.0	17:18:41	SHOT	464	39	A	
2358.0	17:18:59	SHOT	465	39	A	
2358.0	17:19:17	SHOT	466	39	A	
2358.0	17:19:35	SHOT	467	39	A	
2358.0	17:19:53	SHOT	468	39	A	
2358.0	17:20:11	SHOT	469	39	A	
2358.0	17:20:29	SHOT	470	39	A	
2333.0	17:24:37	SHOT	471	40	A	
2333.0	17:24:55	SHOT	472	40	A	

Observer's Note (9/12)

Well depth [m]	Time	Shot Type	Shot#	Stack#	Source	Remarks
2333.0	17:25:13	SHOT	473	40	A	
2333.0	17:25:32	SHOT	474	40	A	?
2333.0	17:26:05	SHOT	475	40	A	
2333.0	17:26:23	SHOT	476	40	A	
2333.0	17:26:41	SHOT	477	40	A	?
2333.0	17:27:00	SHOT	478	40	A	
2333.0	17:27:18	SHOT	479	40	A	
2333.0	17:27:37	SHOT	480	40	A	
2305.0	17:32:08	SHOT	481	41	A	
2305.0	17:32:26	SHOT	482	41	A	
2305.0	17:32:44	SHOT	483	41	A	
2305.0	17:33:21	SHOT	484	41	A	
2305.0	17:34:28	SHOT	485	41	A	
2305.0	17:34:49	SHOT	486	41	A	
2305.0	17:35:07	SHOT	487	41	A	
2305.0	17:35:25	SHOT	488	41	A	
2305.0	17:35:43	SHOT	489	41	A	
2305.0	17:36:01	SHOT	490	41	A	?
2280.0	17:40:03	SHOT	491	42	A	
2280.0	17:40:11	BKGD	492			
2280.0	17:40:27	SHOT	493	42	A	
2280.0	17:40:45	SHOT	494	42	A	
2280.0	17:41:03	SHOT	495	42	A	
2280.0	17:41:21	SHOT	496	42	A	
2280.0	17:41:39	SHOT	497	42	A	
2280.0	17:41:58	SHOT	498	42	A	?
2280.0	17:42:16	SHOT	499	42	A	
2280.0	17:42:34	SHOT	500	42	A	
2280.0	17:42:52	SHOT	501	42	A	?
2253.0	17:48:12	SHOT	502	43	A	?
2253.0	17:48:30	SHOT	503	43	A	
2253.0	17:48:48	SHOT	504	43	A	
2253.0	17:49:06	SHOT	505	43	A	
2253.0	17:49:31	SHOT	506	43	A	
2253.0	17:49:49	SHOT	507	43	A	
2253.0	17:50:12	SHOT	508	43	A	
2253.0	17:50:30	SHOT	509	43	A	
2253.0	17:50:56	SHOT	510	43	A	
2253.0	17:51:33	SHOT	511	43	A	
2233.0	17:59:46	SHOT	512	44	A	
2233.0	18:00:04	SHOT	513	44	A	
2233.0	18:00:23	SHOT	514	44	A	
2233.0	18:01:02	SHOT	515	44	A	
2233.0	18:01:20	SHOT	516	44	A	
2233.0	18:01:38	SHOT	517	44	A	
2233.0	18:01:56	SHOT	518	44	A	Good!
2233.0	18:02:17	SHOT	519	44	A	Good!
2233.0	18:02:35	SHOT	520	44	A	
2233.0	18:02:53	SHOT	521	44	A	
2210.0	18:07:10	SHOT	522	45	A	?
2210.0	18:07:30	SHOT	523	45	A	
2210.0	18:07:48	SHOT	524	45	A	
2210.0	18:08:06	SHOT	525	45	A	
2210.0	18:08:24	SHOT	526	45	A	
2210.0	18:08:43	SHOT	527	45	A	
2210.0	18:09:01	SHOT	528	45	A	
2210.0	18:09:19	SHOT	529	45	A	
2210.0	18:09:38	SHOT	530	45	A	
2186.0	18:15:38	SHOT	531	46	A	

Observer's Note (10/12)

Well depth [m]	Time	Shot Type	Shot#	Stack#	Source	Remarks
2186.0	18:15:56	SHOT	532	46	A	
2186.0	18:16:14	SHOT	533	46	A	
2186.0	18:16:32	SHOT	534	46	A	
2186.0	18:16:50	SHOT	535	46	A	?
2186.0	18:17:08	SHOT	536	46	A	Good?
2186.0	18:17:51	SHOT	537	46	A	
2186.0	18:18:12	SHOT	538	46	A	
2186.0	18:18:34	SHOT	539	46	A	
2186.0	18:18:52	SHOT	540	46	A	Good
2156.0	18:23:41	SHAK	541			
2156.0	18:24:03	SHOT	542	47	A	
2156.0	18:24:24	SHOT	543	47	A	
2156.0	18:24:42	SHOT	544	47	A	
2156.0	18:25:01	SHOT	545	47	A	
2156.0	18:25:19	SHOT	546	47	A	?
2156.0	18:25:37	SHOT	547	47	A	
2156.0	18:26:00	SHOT	548	47	A	Good?
2156.0	18:26:18	SHOT	549	47	A	
2156.0	18:26:36	SHOT	550	47	A	
2128.0	18:33:06	SHOT	551	48	A	
2128.0	18:33:34	SHOT	552	48	A	
2128.0	18:33:52	SHOT	553	48	A	Good
2128.0	18:34:10	SHOT	554	48	A	
2128.0	18:34:28	SHOT	555	48	A	
2128.0	18:34:46	SHOT	556	48	A	?
2128.0	18:35:04	SHOT	557	48	A	?
2128.0	18:35:22	SHOT	558	48	A	
2128.0	18:35:40	SHOT	559	48	A	
2128.0	18:35:59	SHOT	560	48	A	?
2100.0	18:40:13	SHOT	561	49	A	
2100.0	18:40:31	SHOT	562	49	A	
2100.0	18:40:49	SHOT	563	49	A	
2100.0	18:41:07	SHOT	564	49	A	Good
2100.0	18:41:27	SHOT	565	49	A	Good
2100.0	18:41:45	SHOT	566	49	A	
2100.0	18:42:03	SHOT	567	49	A	
2100.0	18:42:21	SHOT	568	49	A	Good
2100.0	18:42:40	SHOT	569	49	A	
2100.0	18:42:58	SHOT	570	49	A	
2078.0	18:49:47	SHOT	571	50	A	Good
2078.0	18:50:05	SHOT	572	50	A	
2078.0	18:50:23	SHOT	573	50	A	
2078.0	18:50:41	SHOT	574	50	A	
2078.0	18:50:59	SHOT	575	50	A	
2078.0	18:51:17	SHOT	576	50	A	
2078.0	18:51:35	SHOT	577	50	A	?
2078.0	18:52:04	SHOT	578	50	A	
2078.0	18:52:22	SHOT	579	50	A	
2078.0	18:52:40	SHOT	580	50	A	
2055.0	18:57:28	SHOT	581	51	A	
2055.0	18:57:57	SHOT	582	51	A	
2055.0	18:58:31	SHOT	583	51	A	
2055.0	18:58:49	SHOT	584	51	A	
2055.0	18:59:07	SHOT	585	51	A	
2055.0	18:59:26	SHOT	586	51	A	?
2055.0	18:59:44	SHOT	587	51	A	
2055.0	19:00:02	SHOT	588	51	A	
2055.0	19:00:20	SHOT	589	51	A	
2055.0	19:00:38	SHOT	590	51	A	

Observer's Note (11/12)

Well depth [m]	Time	Shot Type	Shot#	Stack#	Source	Remarks
2038.0	19:05:21	SHOT	591	52	A	
2038.0	19:05:39	SHOT	592	52	A	
2038.0	19:05:57	SHOT	593	52	A	
2038.0	19:06:15	SHOT	594	52	A	?
2038.0	19:06:33	SHOT	595	52	A	?
2038.0	19:06:51	SHOT	596	52	A	
2038.0	19:07:09	SHOT	597	52	A	
2038.0	19:07:27	SHOT	598	52	A	
2038.0	19:07:45	SHOT	599	52	A	
2038.0	19:08:03	SHOT	600	52	A	
2012.0	19:12:18	SHOT	601	53	A	
2012.0	19:12:36	SHOT	602	53	A	?
2012.0	19:12:54	SHOT	603	53	A	
2012.0	19:13:12	SHOT	604	53	A	?
2012.0	19:13:30	SHOT	605	53	A	
2012.0	19:13:48	SHOT	606	53	A	
2012.0	19:14:06	SHOT	607	53	A	
2012.0	19:14:24	SHOT	608	53	A	
2012.0	19:14:42	SHOT	609	53	A	?
2012.0	19:15:00	SHOT	610	53	A	
2001.0	19:20:17	SHOT	611	54	A	
2001.0	19:20:35	SHOT	612	54	A	?
2001.0	19:20:53	SHOT	613	54	A	
2001.0	19:21:12	SHOT	614	54	A	?
2001.0	19:21:30	SHOT	615	54	A	
2001.0	19:21:48	SHOT	616	54	A	
2001.0	19:22:06	SHOT	617	54	A	?
2001.0	19:22:24	SHOT	618	54	A	
2001.0	19:22:42	SHOT	619	54	A	
2001.0	19:23:00	SHOT	620	54	A	
1971.0	19:28:24	SHOT	621	55	A	
1971.0	19:28:42	SHOT	622	55	A	?
1971.0	19:29:00	SHOT	623	55	A	
1971.0	19:29:18	SHOT	624	55	A	
1971.0	19:29:36	SHOT	625	55	A	
1971.0	19:29:54	SHOT	626	55	A	
1971.0	19:30:12	SHOT	627	55	A	
1971.0	19:30:30	SHOT	628	55	A	?
1971.0	19:30:48	SHOT	629	55	A	
1971.0	19:31:06	SHOT	630	55	A	?
1948.0	19:36:38	SHOT	631	56	A	
1948.0	19:36:56	SHOT	632	56	A	
1948.0	19:37:15	SHOT	633	56	A	
1948.0	19:37:33	SHOT	634	56	A	
1948.0	19:37:51	SHOT	635	56	A	
1948.0	19:38:09	SHOT	636	56	A	
1948.0	19:38:27	SHOT	637	56	A	
1948.0	19:38:45	SHOT	638	56	A	
1948.0	19:39:03	SHOT	639	56	A	
1948.0	19:39:21	SHOT	640	56	A	
1922.0	19:43:29	SHOT	641	57	A	?
1922.0	19:43:47	SHOT	642	57	A	
1922.0	19:44:05	SHOT	643	57	A	
1922.0	19:44:23	SHOT	644	57	A	
1922.0	19:44:41	SHOT	645	57	A	
1922.0	19:45:00	SHOT	646	57	A	
1922.0	19:45:18	SHOT	647	57	A	
1922.0	19:45:36	SHOT	648	57	A	
1922.0	19:45:54	SHOT	649	57	A	

Observer's Note (12/12)

Well depth [m]	Time	Shot Type	Shot#	Stack#	Source	Remarks
1922.0	19:46:12	SHOT	650	57	A	
1892.0	19:50:09	SHOT	651	58	A	
1892.0	19:51:01	SHOT	652	58	A	
1892.0	19:51:19	SHOT	653	58	A	
1892.0	19:51:37	SHOT	654	58	A	
1892.0	19:51:55	SHOT	655	58	A	
1892.0	19:52:13	SHOT	656	58	A	
1892.0	19:52:32	SHOT	657	58	A	
1892.0	19:52:50	SHOT	658	58	A	
1892.0	19:53:08	SHOT	659	58	A	
1892.0	19:53:26	SHOT	660	58	A	
1866.0	19:57:11	SHOT	661	59	A	
1866.0	19:57:29	SHOT	662	59	A	
1866.0	19:57:47	SHOT	663	59	A	
1866.0	19:58:05	SHOT	664	59	A	
1866.0	19:58:23	SHOT	665	59	A	
1866.0	19:58:41	SHOT	666	59	A	
1866.0	19:58:59	SHOT	667	59	A	
1866.0	19:59:17	SHOT	668	59	A	
1866.0	19:59:42	SHOT	669	59	A	
1866.0	20:00:00	SHOT	670	59	A	
1832.0	20:04:00	SHOT	671	60	A	
1832.0	20:04:18	SHOT	672	60	A	
1832.0	20:04:36	SHOT	673	60	A	
1832.0	20:04:54	SHOT	674	60	A	
1832.0	20:05:12	SHOT	675	60	A	
1832.0	20:05:30	SHOT	676	60	A	
1832.0	20:05:48	SHOT	677	60	A	
1832.0	20:06:06	SHOT	678	60	A	
1832.0	20:06:24	SHOT	679	60	A	
1832.0	20:06:42	SHOT	680	60	A	