
Offset VSP Report

General Information

Survey Type	Offset VSP
Surface Recording Length	15500.0 ms
Surface Sampling Rate	2.0 ms
Downhole Recording Length	20500.0 ms
Downhole Sampling Rate	2.0 ms
Top of Survey	590.0 m
Bottom of Survey	2010.0 m
Number of Shots	158
Number of Downhole Traces	1264
Number of Downhole Traces used for Processing	775

Borehole Seismic Source Information - Source 1

Engineer: S. Nakanishi

Well Name: Naylor-1

Date: 14-May-2006

Rig: Rigless/ 15Ton Crane

Geometrical Coordinates

Longitude: 142 48' 30.43" E

Latitude: 38 31' 47.26" S

UTM Coordinates

Easting: 657634.25 m E

Northing: 5733850.49 m N

Permanent Datum: MSL

Log Measured From: DF

Elev. 51.1

Unit: m

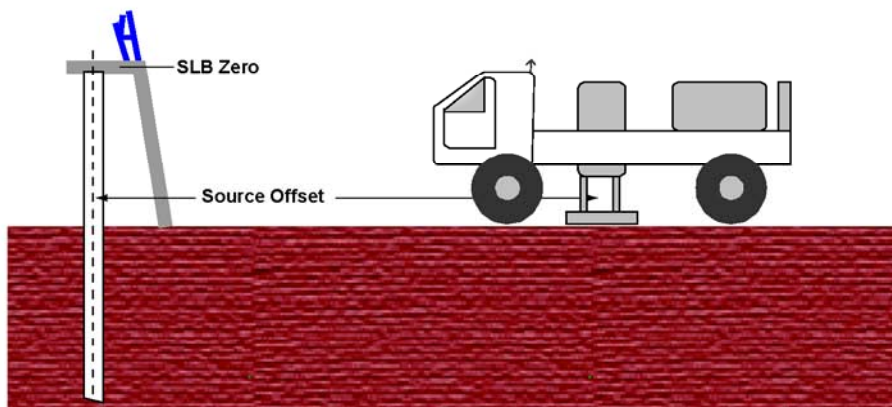
Ground Elev. at Well Head 46.4

SRD (Seismic Reference Datum): MSL

Elev. 0.0

from SLB zero: 51.1 (SRDS)

Source UTM Coordinates Easting: 657883 mE Northing: 5733139 mN Ground Elev. at VP: 47.3



Gun Depth from SLB : 3.8 (GDSZ)
 Gun Depth from SRD : -47.3
 Gun Depth from GL (WH): -0.9

Ground Condition: Clay soil
 Flat terrain

Ground Water Level from GL: 1.0

Gun Azimuth (Grid North): 160.7 deg (GAZI)

Gun Offset: 753.7 (GOFF)

Vibrator: IVI MinVib T1500

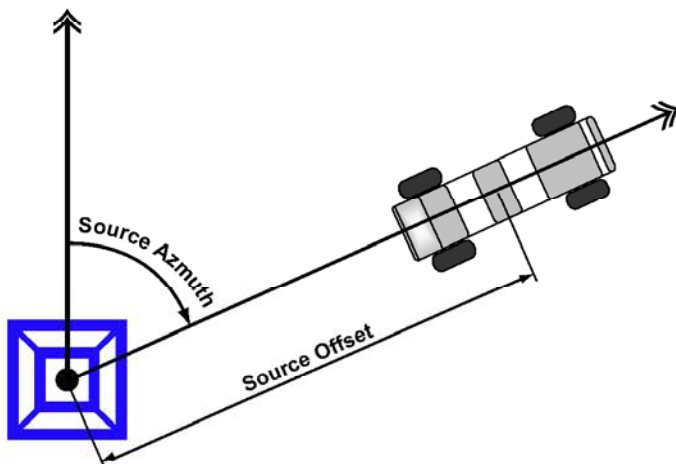
Controller - Encoder: RTS-100

Decoder: SIB-100

Version: ANSIR

Mass Weight 311 lbs
 BasePlate Weight 370 lbs
 HoldDown Weight 10,000 lbs

Zero Time Adjust N/A
 Radio Reference Delay N/A



Sweep Parameters

Start Frequency 10 Hz
 End Frequency 150 Hz
 Swweep Length 15 sec
 Start Taper 0.2 sec
 End Taper 0.2 sec
 Sweep Type Linear
 VIB Sweep Phase N/A
 ESG Sweep Phase N/A
 Phase Lock Mode N/A
 Force Mode N/A

Surface Velocity Survey (Rig Source only)

Tool Measured Depth: 610.0

Measured Transit Time: 463.2 ms Reliable TT

Measured Surface Velocity: NA

Provided Surface Velocity by Client: 1,750.0 m/sec

Borehole Seismic Source Information

Surface Sensor Channels

WSAM (WSI)

sn: **WSAM: -AB 910**

WSI: 1742

Pilot Signal

SSPS

S1 (WSI-SS2)	none	<input type="checkbox"/>
S2 (WSI-SS3)	Filtered Ground For	<input checked="" type="checkbox"/>
S3 (WSI-SS4)	none	<input type="checkbox"/>
S4 (WSI-SS5)		<input type="checkbox"/>
S5 (WSI-SS6)		<input type="checkbox"/>
S6 (WSI-SS7)		<input type="checkbox"/>

Quality Check Surface Signals

	S1 Time Break / PP		S2 TT(ms) / PP		S3 TT(ms) / PP		S4 TT(ms) / PP		S5 TT(ms) / PP		S6 TT(ms) / PP	
Shot-1	0.0 /	0	0.0 /	19081	0.0 /	0	0.0 /	0	0.0 /	0	0.0 /	0
Shot-2	0.0 /	0	0.0 /	19013	1.0 /	0	0.0 /	0	0.0 /	0	0.0 /	0
Shot-3	0.0 /	0	0.0 /	19287	0.0 /	0	0.0 /	0	0.0 /	0	0.0 /	0
Shot-4	0.0 /	0	0.0 /	19342	0.0 /	0	0.0 /	0	0.0 /	0	0.0 /	0
Shot-5	0.0 /	0	0.0 /	19244	0.0 /	0	0.0 /	0	0.0 /	0	0.0 /	0

Other Logs Information

Sonic Log:	Interval:	from	to	Date:
Density Log:	Interval:	from	to	Date:

Remarks

MinVib T1500 used 10Hz to 150Hz linear sweep for 15 seconds. Baseplate used the shearwave plate for P-wave mode. PSS or QC signal is not available in the RTS-100 system.

Contact Closure pin-F and G of RTS-100 is used for triggering MinVib through WSI-A (30 msec period). Start Delay sets 0.1 s.

SIB-100 can provide three reference pilot signals (Synthetic, Ground Force and Filtered Ground force). Only one of them can be transmitted through UHF radio. The Filtered Ground Force signal is recommended for correlation by the IVI. Pilot signal (Filtered Ground Force signal) is recorded for correlation. FGF signal is generated in the SIB-100 box in real time by combining the baseplate accelerometer and the mass accelerometer signals during each sweep. This signal is then filtered with a tracking high cut filter. The frequency of this tracking filter is set to remove all higher order harmonics. . FGF signals is 180 degree phase different to GF signal according to Elmo Christensen / IVI.

FGF signal is recorded in reversed polarity (RTS-100 pin-D to WSI pin-A, RTS-100 pin-N to WSI pin-B) in order to obtain positive peak correlation. Downhole receiver (GAC) has SEG reverse polarity (1975).

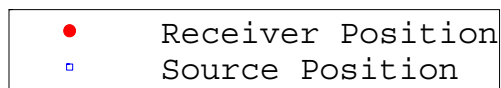
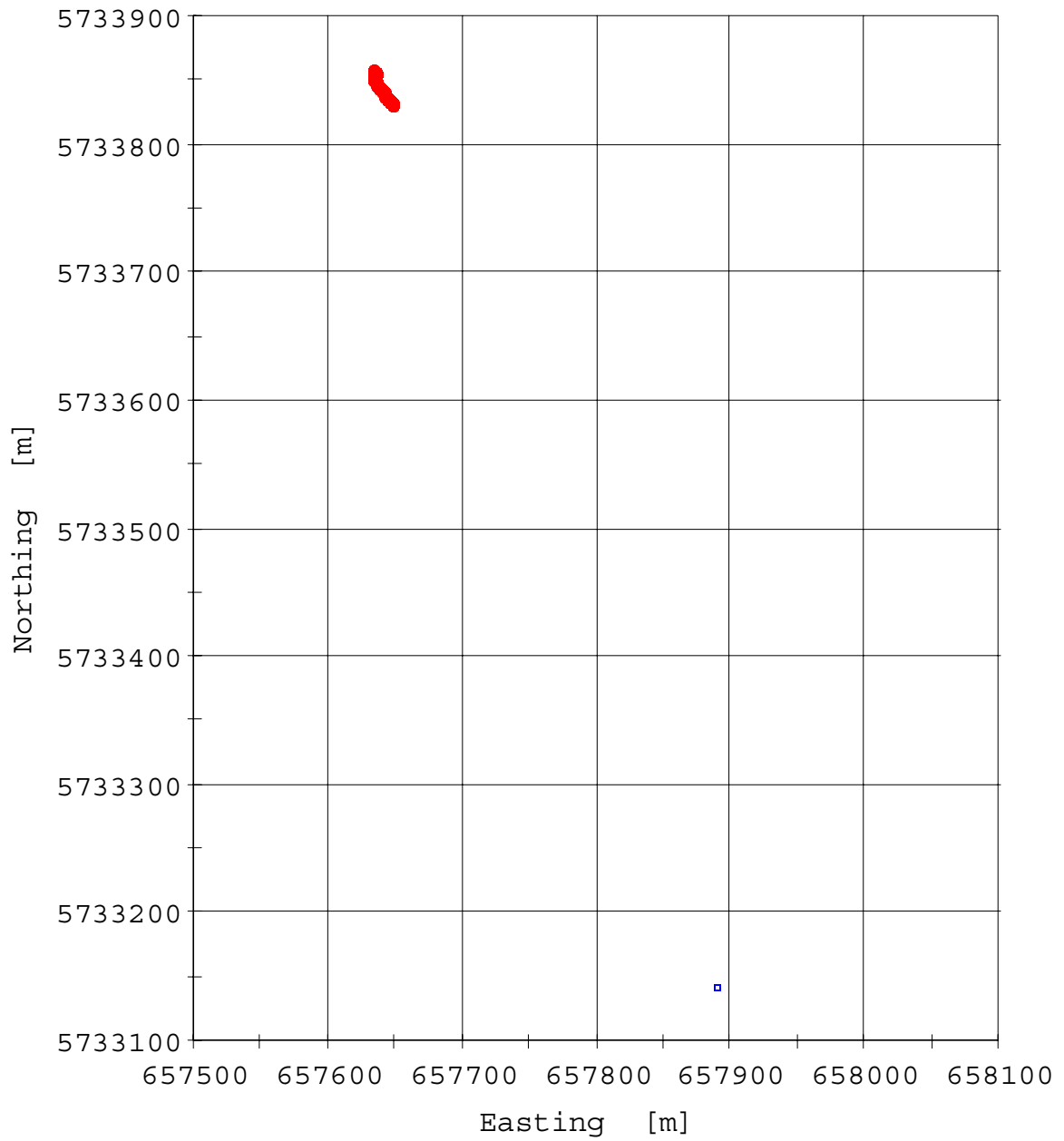
Recording surface signals (WSAM) S1 - No input. S2 - FGF (15500 msec @ 2 msec sampling with TOFS 500 ms to avoid transit noise). Correlation Length 5000 msec. Downhole listening time is 20500 msec @ 2 msec sampling). Input impedance of the channel SS3 (S2) of WSAM-AB was changed from 462-ohm to 10K-ohm in order to obtain better dynamic range.

Detail T-1500 MinVib specification

- Max. Theoretical Peak Force: 6,000 Pounds
- Mass Piston Area: 1.50 Inches²
- Reaction Mass Weight: 311 Pounds
- Reaction Mass Stroke: 1.88 Inches
- Servovalve; 5 GPM
- Servovalve Pilot Filter: 3 Micron
- Baseplate Area: 1,018 Inches²
- Baseplate Assembly Weight: 370 Pounds
- Lift System Stroke: 38 Inches
- Lift Cylinder Diameter: 2.5 Inches
- Lift Synchronization: Mechanical Crossbeam
- Vibrator Pump Flow: 15 GPM @ 2100 RPM
- Holddown Weight: 10,000 Pounds



Geometry Information Page (X-Y)



Shot Summary Listing (1/6)

Measured Depth [m]	Tool Number	Stack Number	Relative Bearing [deg]	Caliper [in]	Anchoring force [kg]	Shot number
610.0	3	33	-22.3	3.0	771.5	177, 178, 179, 180, 181
620.0	4	33	-21.1	3.2	905.5	177, 178, 179, 180, 181
630.0	5	33	-18.5	3.3	766.9	177, 178, 179, 180, 181
640.0	6	33	15.8	3.2	774.7	177, 178, 179, 180, 181
650.0	7	33	15.3	3.2	790.4	177, 178, 179, 180, 181
660.0	8	33	-15.8	3.2	802.0	177, 178, 179, 180, 181
670.0	3	32	-22.1	3.0	780.0	170, 171, 172, 173, 174, 175
680.0	4	32	-21.3	3.2	902.4	170, 171, 172, 173, 174, 175
690.0	5	32	-21.5	3.3	763.7	170, 171, 172, 173, 174, 175
700.0	6	32	12.1	3.2	805.8	170, 171, 172, 173, 174, 175
710.0	7	32	18.5	3.2	796.5	170, 171, 172, 173, 174, 175
720.0	8	32	-19.0	3.2	789.6	170, 171, 172, 173, 174, 175
730.0	3	31	-17.6	3.0	782.9	164, 165, 166, 167, 168
740.0	4	31	-26.5	3.2	897.4	164, 165, 166, 167, 168
750.0	5	31	-21.3	3.3	771.7	164, 165, 166, 167, 168
760.0	6	31	13.4	3.2	798.9	164, 165, 166, 167, 168
770.0	7	31	18.7	3.2	780.3	164, 165, 166, 167, 168
780.0	8	31	-9.6	3.1	774.4	164, 165, 166, 167, 168
790.0	3	30	-11.9	3.0	761.6	159, 160, 161, 162, 163
800.0	4	30	-28.3	3.2	897.4	159, 160, 161, 162, 163
810.0	5	30	-14.9	3.3	776.6	159, 160, 161, 162, 163
820.0	6	30	13.0	3.2	807.6	159, 160, 161, 162, 163
830.0	7	30	16.3	3.2	775.1	159, 160, 161, 162, 163
840.0	8	30	-9.9	3.1	792.7	159, 160, 161, 162, 163
850.0	3	29	-12.1	3.0	759.8	154, 155, 156, 157, 158
860.0	4	29	-29.6	3.2	893.9	154, 155, 156, 157, 158
870.0	5	29	-9.1	3.2	750.4	154, 155, 156, 157, 158
880.0	6	29	23.6	3.2	804.2	154, 155, 156, 157, 158

Shot Summary Listing (2/6)

Measured Depth [m]	Tool Number	Stack Number	Relative Bearing [deg]	Caliper [in]	Anchoring force [kg]	Shot number
890.0	7	29	16.2	3.2	767.5	154, 155, 156, 157, 158
900.0	8	29	-8.9	3.1	791.4	154, 155, 156, 157, 158
910.0	3	28	-26.1	3.0	753.5	148, 149, 150, 151, 152
920.0	4	28	-29.6	3.2	881.1	148, 149, 150, 151, 152
930.0	5	28	-7.4	3.3	760.4	148, 149, 150, 151, 152
940.0	6	28	19.6	3.2	794.1	148, 149, 150, 151, 152
950.0	7	28	23.0	3.2	760.4	148, 149, 150, 151, 152
960.0	8	28	-9.3	3.1	785.8	148, 149, 150, 151, 152
970.0	3	27	-24.3	3.0	740.9	142, 143, 144, 145, 146
980.0	4	27	-29.6	3.2	880.0	142, 143, 144, 145, 146
990.0	5	27	-10.7	3.3	765.2	142, 143, 144, 145, 146
1000.0	6	27	17.0	3.1	792.6	142, 143, 144, 145, 146
1010.0	7	27	20.5	3.2	753.8	142, 143, 144, 145, 146
1020.0	8	27	-9.3	3.1	778.1	142, 143, 144, 145, 146
1030.0	3	26	-23.6	3.0	744.1	135, 136, 137, 138, 140, 141
1040.0	4	26	-27.8	3.2	877.8	135, 136, 137, 138, 140, 141
1050.0	5	26	-22.0	3.3	754.3	135, 136, 137, 138, 140, 141
1060.0	6	26	10.9	3.2	786.1	135, 136, 137, 138, 140, 141
1070.0	7	26	16.2	3.2	745.2	135, 136, 137, 138, 140, 141
1080.0	8	26	-9.8	3.1	766.5	135, 136, 137, 138, 140, 141
1090.0	3	25	-24.8	3.0	736.7	130, 131, 132, 133, 134
1100.0	4	25	-27.7	3.2	867.9	130, 131, 132, 133, 134
1110.0	5	25	-21.5	3.3	753.2	130, 131, 132, 133, 134
1120.0	6	25	6.5	3.2	792.6	130, 131, 132, 133, 134
1130.0	7	25	10.7	3.2	745.6	130, 131, 132, 133, 134
1140.0	8	25	-15.4	3.1	770.5	130, 131, 132, 133, 134
1150.0	3	24	-25.4	3.0	723.3	125, 126, 127, 128, 129
1160.0	4	24	-27.5	3.2	868.4	125, 126, 127, 128, 129

Shot Summary Listing (3/6)

Measured Depth [m]	Tool Number	Stack Number	Relative Bearing [deg]	Caliper [in]	Anchoring force [kg]	Shot number
1170.0	5	24	-21.7	3.3	753.9	125, 126, 127, 128, 129
1180.0	6	24	2.5	3.1	775.2	125, 126, 127, 128, 129
1190.0	7	24	4.7	3.2	747.4	125, 126, 127, 128, 129
1200.0	8	24	-11.4	3.1	771.1	125, 126, 127, 128, 129
1210.0	3	23	-22.5	3.0	739.4	120, 121, 122, 123, 124
1220.0	4	23	-30.9	3.1	857.4	120, 121, 122, 123, 124
1230.0	5	23	-21.6	3.3	743.1	120, 121, 122, 123, 124
1240.0	6	23	21.2	3.2	781.6	120, 121, 122, 123, 124
1250.0	7	23	13.7	3.2	747.8	120, 121, 122, 123, 124
1260.0	8	23	-10.7	3.1	776.1	120, 121, 122, 123, 124
1270.0	3	22	-19.6	3.0	727.9	115, 116, 117, 118, 119
1280.0	4	22	-28.4	3.2	827.1	115, 116, 117, 118, 119
1290.0	5	22	-21.6	3.3	733.9	115, 116, 117, 118, 119
1300.0	6	22	16.4	3.2	776.8	115, 116, 117, 118, 119
1310.0	7	22	10.0	3.2	717.5	115, 116, 117, 118, 119
1320.0	8	22	-6.0	3.1	760.9	115, 116, 117, 118, 119
1330.0	3	21	-13.0	3.0	709.4	109, 111, 112, 113, 114
1340.0	4	21	-28.1	3.2	843.0	109, 111, 112, 113, 114
1350.0	5	21	-20.7	3.3	732.9	109, 111, 112, 113, 114
1360.0	6	21	19.4	3.2	772.9	109, 111, 112, 113, 114
1370.0	7	21	14.5	3.2	738.5	109, 111, 112, 113, 114
1380.0	8	21	-8.4	3.1	752.3	109, 111, 112, 113, 114
1390.0	3	20	-10.5	3.0	719.4	103, 104, 105, 107, 108
1400.0	4	20	-32.0	3.2	833.4	103, 104, 105, 107, 108
1410.0	5	20	-21.7	3.2	727.8	103, 104, 105, 107, 108
1420.0	6	20	14.6	3.2	759.7	103, 104, 105, 107, 108
1430.0	7	20	13.8	3.2	717.2	103, 104, 105, 107, 108
1440.0	8	20	-16.6	3.1	744.2	103, 104, 105, 107, 108

Shot Summary Listing (4/6)

Measured Depth [m]	Tool Number	Stack Number	Relative Bearing [deg]	Caliper [in]	Anchoring force [kg]	Shot number
1450.0	3	19	-8.7	3.0	697.2	98, 99, 100, 101, 102
1460.0	4	19	-31.6	3.2	842.6	98, 99, 100, 101, 102
1470.0	5	19	-19.9	3.2	714.5	98, 99, 100, 101, 102
1480.0	6	19	10.4	3.2	761.9	98, 99, 100, 101, 102
1490.0	7	19	13.2	3.2	732.5	98, 99, 100, 101, 102
1500.0	8	19	-11.5	3.2	741.8	98, 99, 100, 101, 102
1510.0	3	18	-11.5	3.0	685.0	93, 94, 95, 96, 97
1520.0	4	18	-31.9	3.2	821.1	93, 94, 95, 96, 97
1530.0	5	18	-21.7	3.2	711.0	93, 94, 95, 96, 97
1540.0	6	18	6.4	3.1	767.3	93, 94, 95, 96, 97
1550.0	7	18	4.3	3.2	714.0	93, 94, 95, 96, 97
1560.0	8	18	-9.9	3.1	739.2	93, 94, 95, 96, 97
1570.0	3	17	-13.4	3.0	685.0	88, 89, 90, 91, 92
1580.0	4	17	-32.1	3.1	810.4	88, 89, 90, 91, 92
1590.0	5	17	-28.3	3.2	711.0	88, 89, 90, 91, 92
1600.0	6	17	1.0	3.2	765.1	88, 89, 90, 91, 92
1610.0	7	17	6.3	3.2	720.4	88, 89, 90, 91, 92
1620.0	8	17	-15.6	3.1	751.7	88, 89, 90, 91, 92
1630.0	3	16	-13.7	2.9	675.7	83, 84, 85, 86, 87
1640.0	4	16	-34.4	3.1	775.7	83, 84, 85, 86, 87
1650.0	5	16	-29.1	3.2	683.3	83, 84, 85, 86, 87
1660.0	6	16	10.4	3.1	762.1	83, 84, 85, 86, 87
1670.0	7	16	-6.9	3.2	706.8	83, 84, 85, 86, 87
1680.0	8	16	-27.0	3.1	728.0	83, 84, 85, 86, 87
1690.0	3	15	-9.4	3.0	689.4	82
1700.0	4	15	-34.9	3.1	793.2	82
1710.0	5	15	-41.4	3.2	655.9	82
1720.0	6	15	1.5	3.1	759.5	82

Shot Summary Listing (5/6)

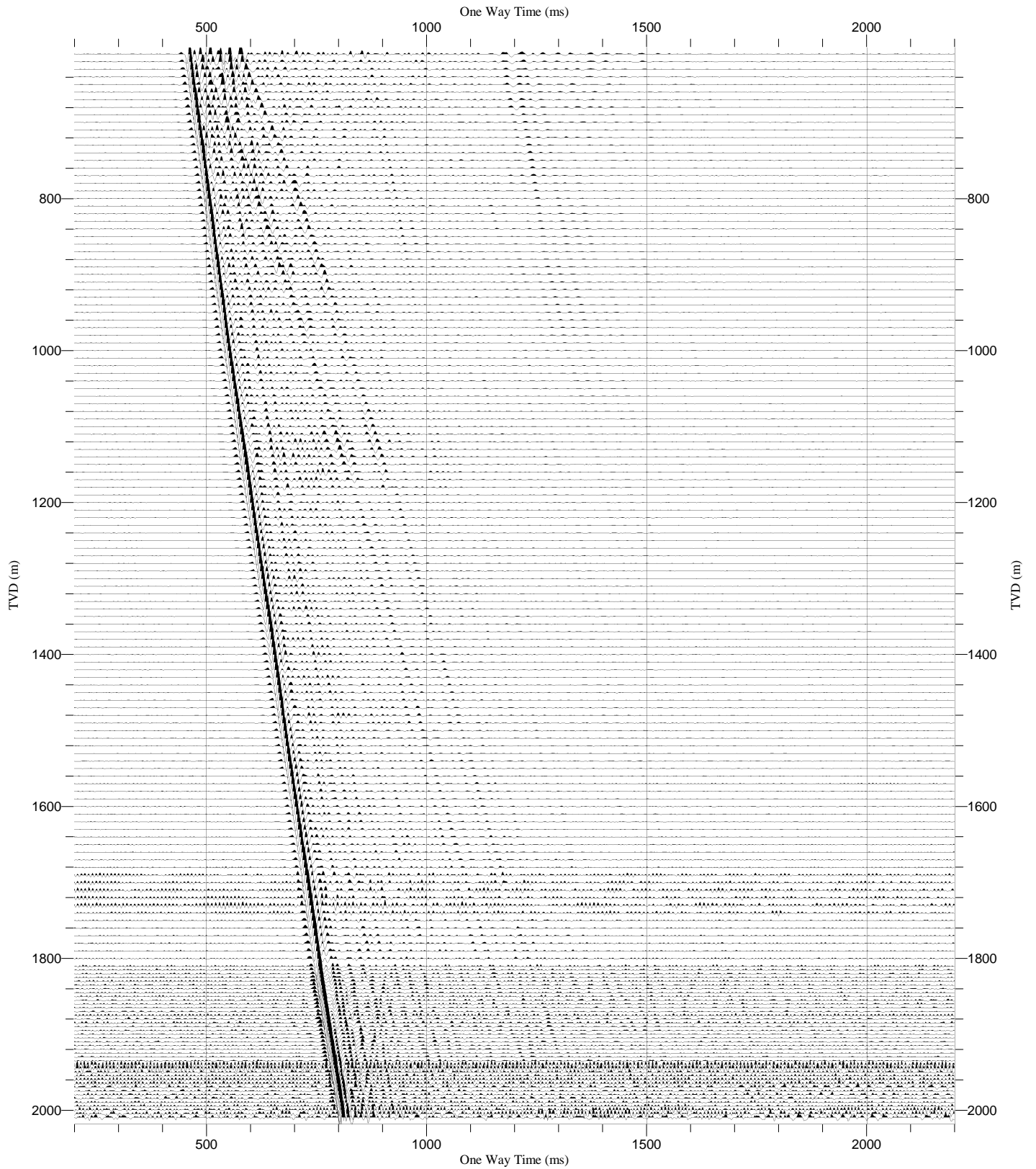
Measured Depth [m]	Tool Number	Stack Number	Relative Bearing [deg]	Caliper [in]	Anchoring force [kg]	Shot number
1730.0	7	15	-17.2	3.2	692.5	82
1740.0	8	15	-39.6	3.1	734.1	82
1750.0	3	14	-2.4	3.0	662.7	72, 73, 74, 75, 76
1760.0	4	14	-33.7	3.1	783.7	72, 73, 74, 75, 76
1770.0	5	14	-13.9	3.2	683.7	72, 73, 74, 75, 76
1780.0	6	14	12.9	3.1	741.8	72, 73, 74, 75, 76
1790.0	7	14	10.3	3.2	671.1	72, 73, 74, 75, 76
1800.0	8	14	-26.1	3.1	698.3	72, 73, 74, 75, 76
1810.0	3	13	-22.5	3.0	666.0	53, 54, 55, 56
1815.0	3	12	-21.3	2.9	659.1	48, 49, 50, 51, 52
1820.0	4	13	-36.2	3.1	770.8	53, 54, 55, 56
1825.0	4	12	-36.2	3.1	769.9	48, 49, 50, 51, 52
1830.0	5	13	-44.0	3.2	659.2	53, 54, 55, 56
1835.0	5	12	-28.4	3.2	654.4	48, 49, 50, 51, 52
1840.0	6	13	-43.2	3.1	744.5	53, 54, 55, 56
1845.0	6	12	-38.6	3.1	745.2	48, 49, 50, 51, 52
1850.0	7	13	-98.5	3.2	694.9	53, 54, 55, 56
1855.0	7	12	-107.8	3.2	669.9	48, 49, 50, 51, 52
1860.0	8	13	-161.4	3.1	705.3	53, 54, 55, 56
1865.0	8	12	-161.5	3.1	702.4	48, 49, 50, 51, 52
1870.0	2	10	-8.4	2.8	711.3	37, 38, 39, 40, 41
1875.0	3	11	111.5	3.0	649.4	43, 44, 45, 46, 47
1880.0	3	10	67.3	2.9	651.9	37, 38, 39, 40, 41
1885.0	3	9	42.5	2.9	649.8	32, 33, 34, 35, 36
1890.0	4	10	-23.0	3.1	764.3	37, 38, 39, 40, 41
1895.0	4	9	-29.3	3.2	773.2	32, 33, 34, 35, 36
1900.0	5	10	83.6	3.2	654.7	37, 38, 39, 40, 41
1905.0	5	9	49.3	3.2	659.9	32, 33, 34, 35, 36

Shot Summary Listing (6/6)

Measured Depth [m]	Tool Number	Stack Number	Relative Bearing [deg]	Caliper [in]	Anchoring force [kg]	Shot number
1910.0	6	10	92.7	3.1	725.5	37, 38, 39, 40, 41
1915.0	7	11	-115.4	3.2	662.0	43, 44, 45, 46, 47
1920.0	7	10	107.4	3.2	674.8	37, 38, 39, 40, 41
1925.0	8	11	179.0	3.1	698.5	43, 44, 45, 46, 47
1930.0	8	10	75.0	3.1	692.8	37, 38, 39, 40, 41
1935.0	8	9	26.9	3.1	672.3	32, 33, 34, 35, 36
1940.0	3	8	-78.4	3.0	636.0	23, 24, 25, 26, 27, 28, 29, 30, 31
1945.0	3	7	-85.3	3.0	632.9	20, 21, 22
1950.0	3	6	-97.0	3.0	628.6	17, 18, 19
1955.0	4	7	177.3	3.1	756.2	20, 21, 22
1960.0	5	8	-78.3	3.2	655.8	23, 24, 25, 26, 27, 28, 29, 30, 31
1965.0	5	7	-78.5	3.2	643.1	20, 21, 22
1970.0	4	4	170.2	3.1	699.6	11, 12, 13
1975.0	5	5	-118.9	3.2	521.7	14, 15, 16
1980.0	5	4	-161.9	3.2	664.9	11, 12, 13
1985.0	6	5	-86.3	3.2	715.7	14, 15, 16
1990.0	8	8	-111.5	3.1	697.2	23, 24, 25, 26, 27, 28, 29, 30, 31
1995.0	8	7	-111.5	3.1	684.8	20, 21, 22
2000.0	8	6	-122.6	3.1	678.7	17, 18, 19
2005.0	8	5	-147.4	3.1	672.9	14, 15, 16
2010.0	8	4	140.2	3.1	660.6	11, 12, 13

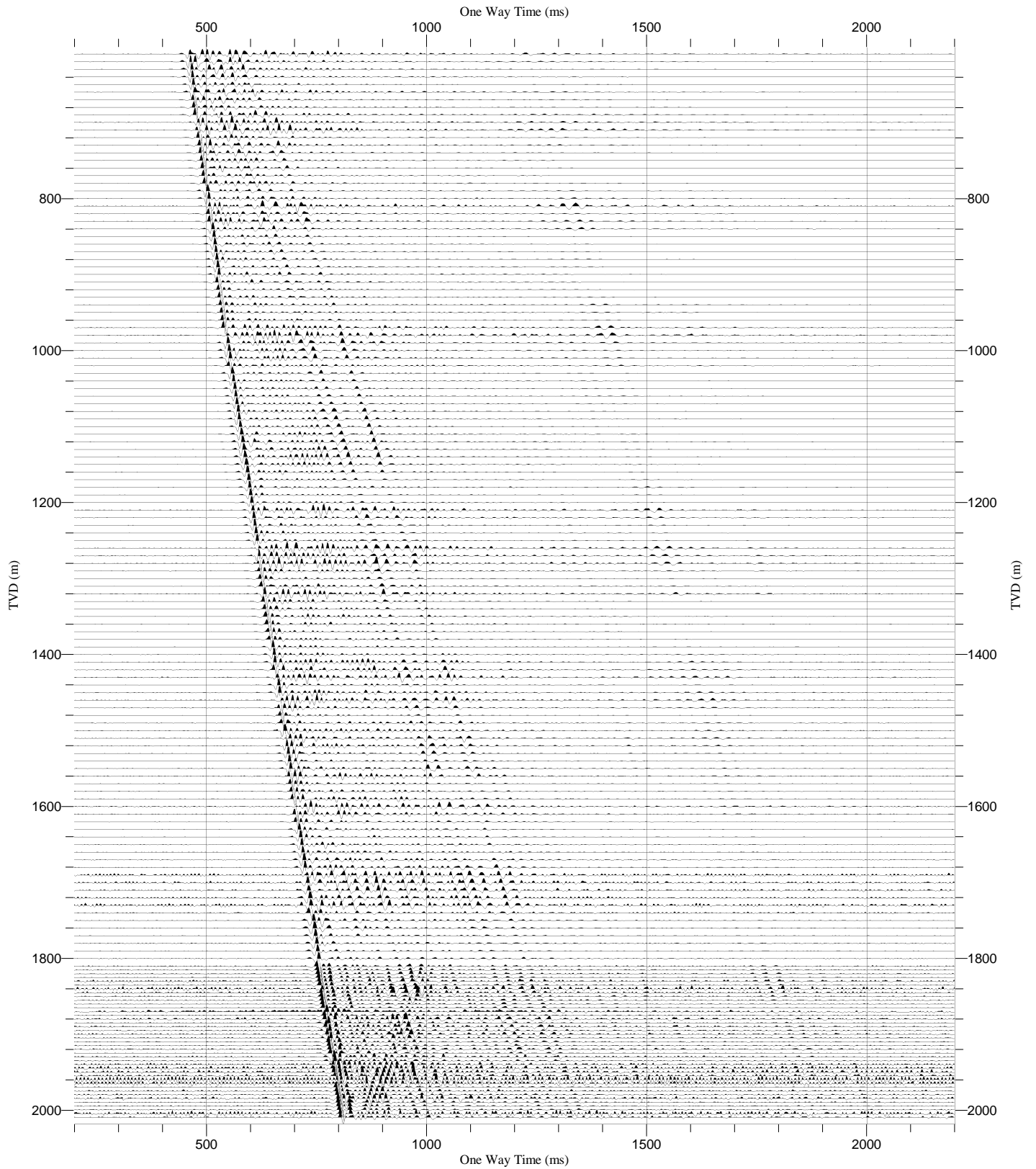
Raw Stack (Z)

Normalization Trace by Trace (200%)
Polarity Normal
One Way Time (ms)
Scaling 8.1 cm/sec, 1/7170



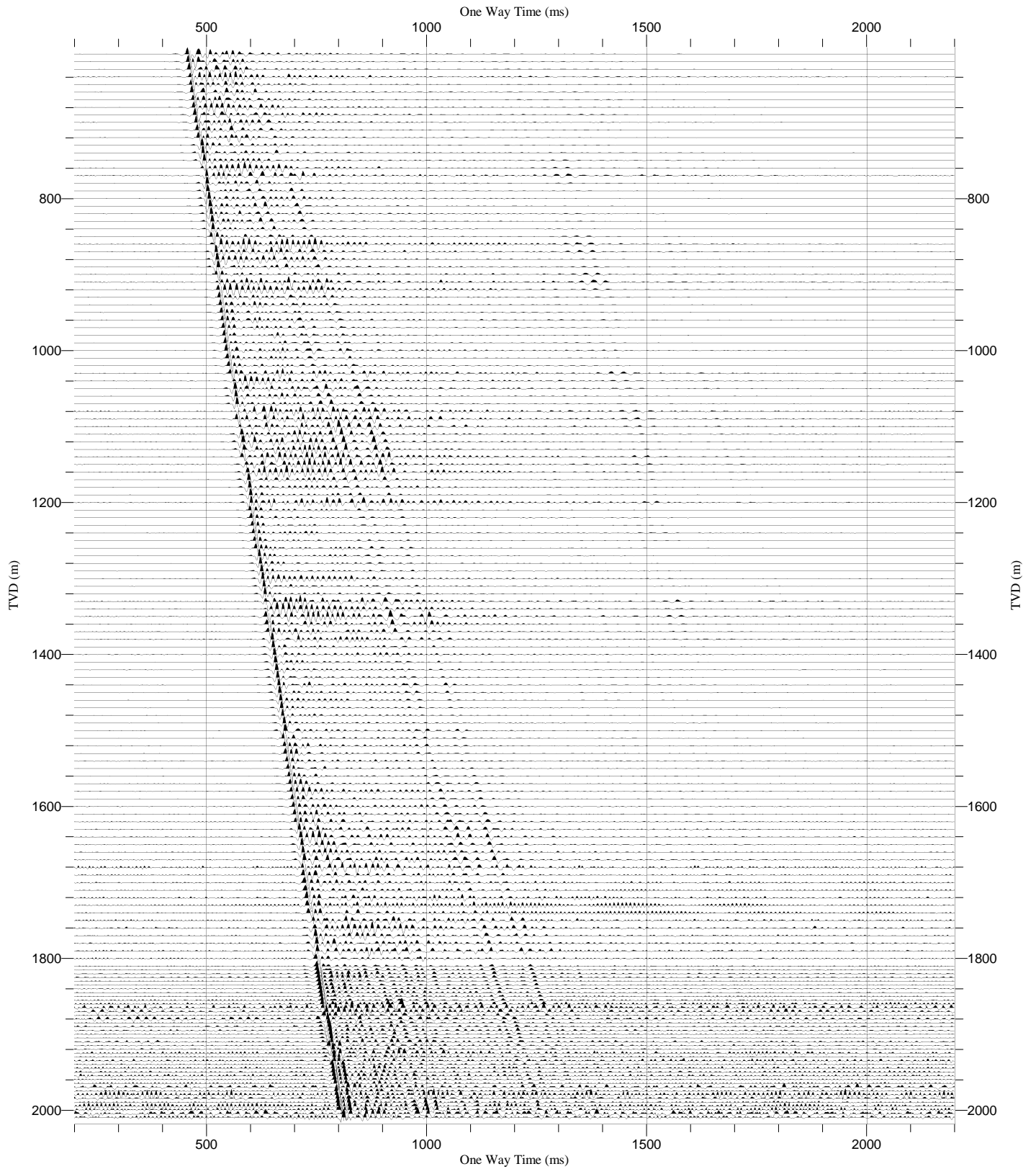
Raw Stack (X)

Normalization Trace by Trace (100%)
Polarity Normal
One Way Time (ms)
Scaling 8.1 cm/sec, 1/7170



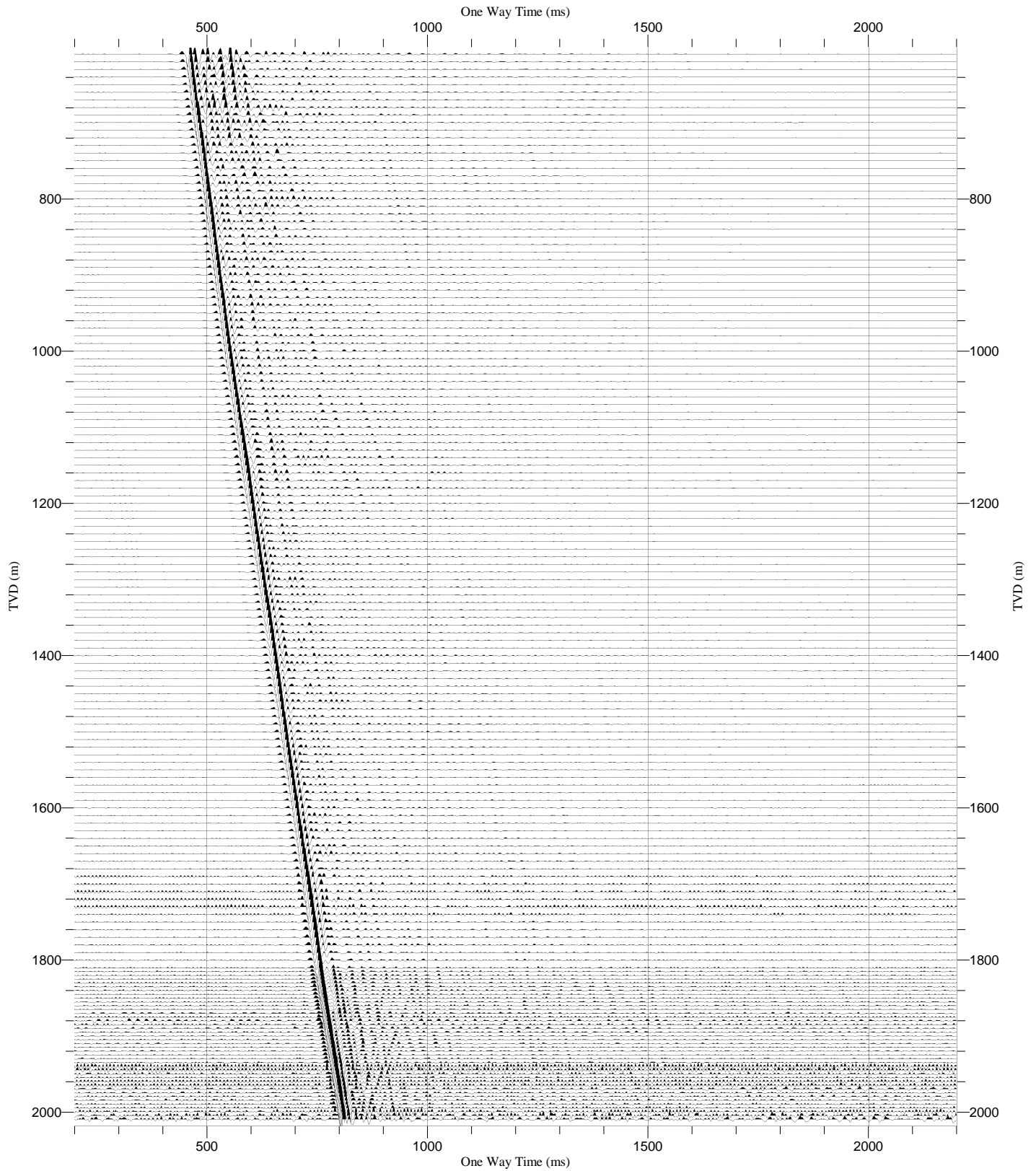
Raw Stack (Y)

Normalization Trace by Trace (100%)
Polarity Normal
One Way Time (ms)
Scaling 8.1 cm/sec, 1/7170



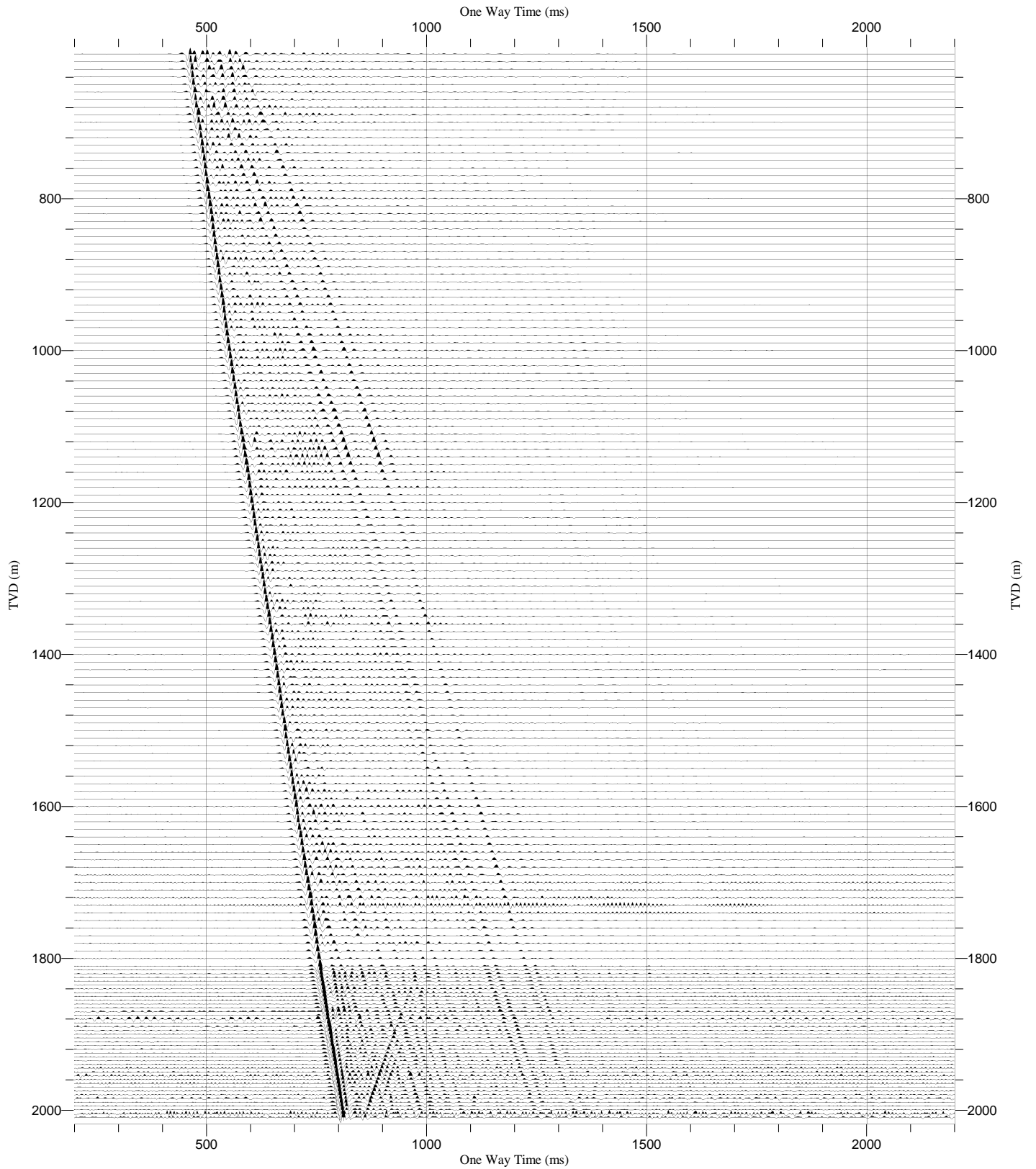
Raw Stack (TRY)

Normalization Trace by Trace (200%)
Polarity Normal
One Way Time (ms)
Scaling 8.1 cm/sec, 1/7170



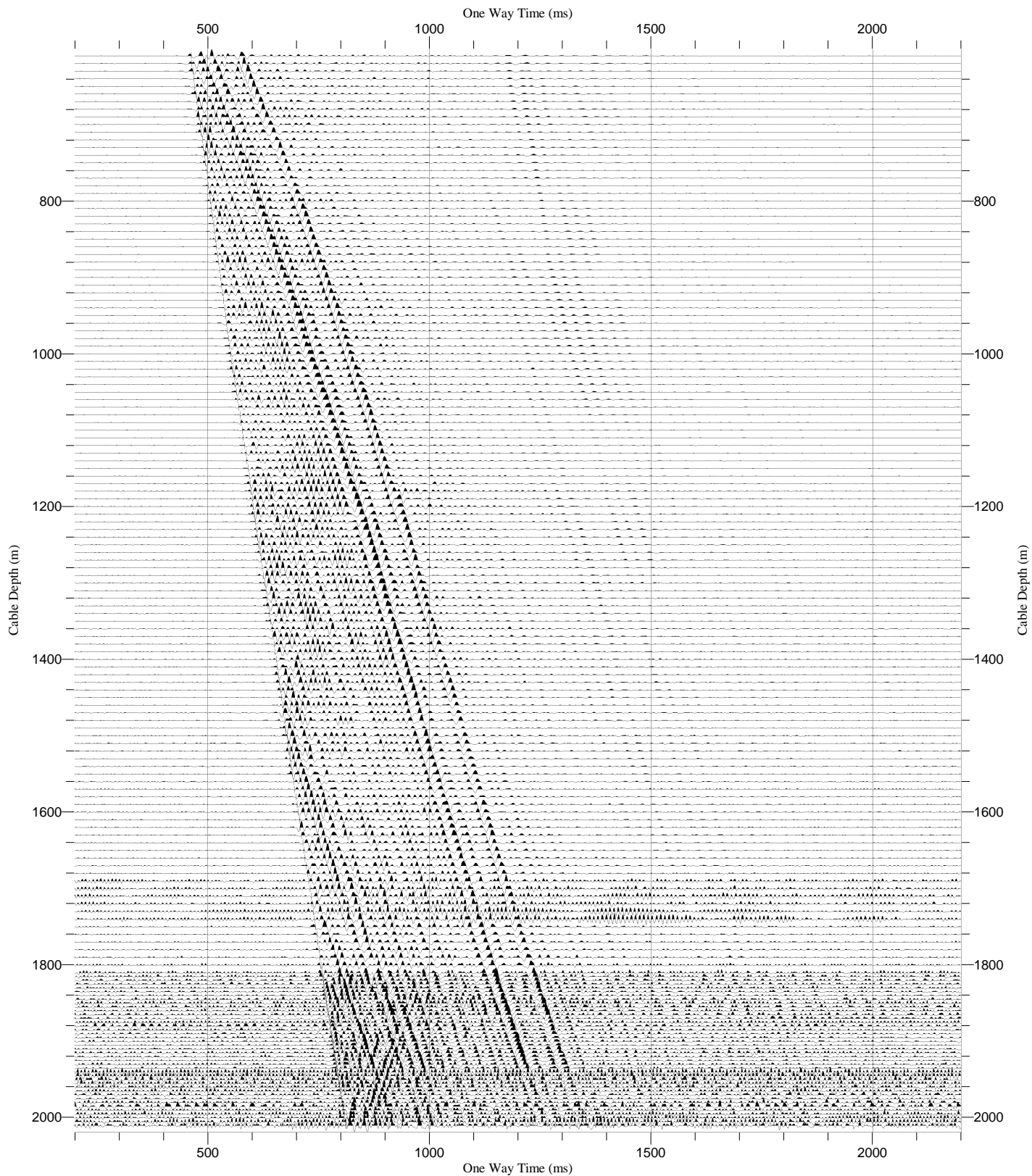
Raw Stack (HMX)

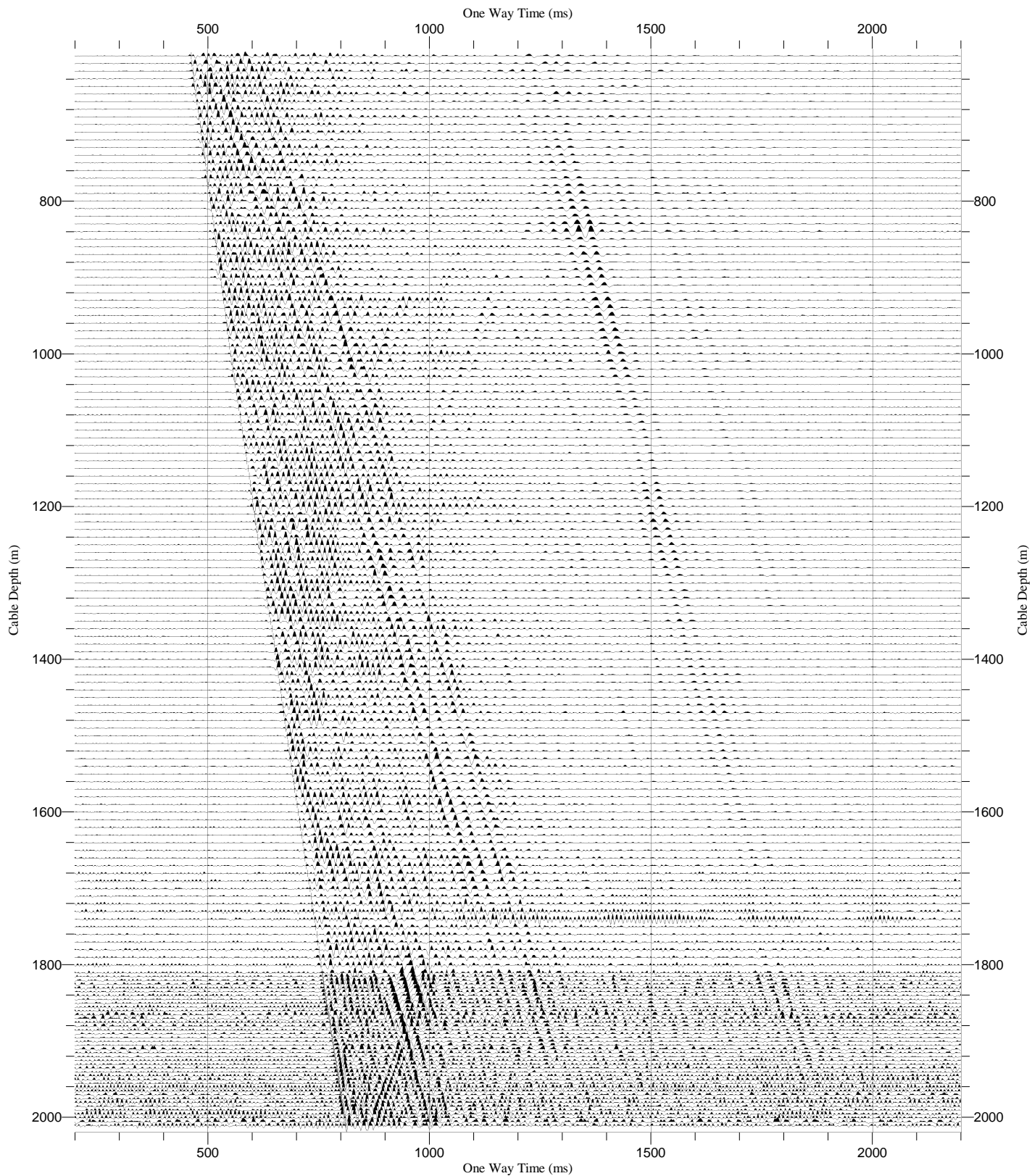
Normalization Trace by Trace (100%)
Polarity Normal
One Way Time (ms)
Scaling 8.1 cm/sec, 1/7170



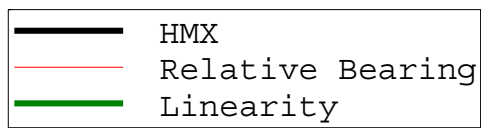
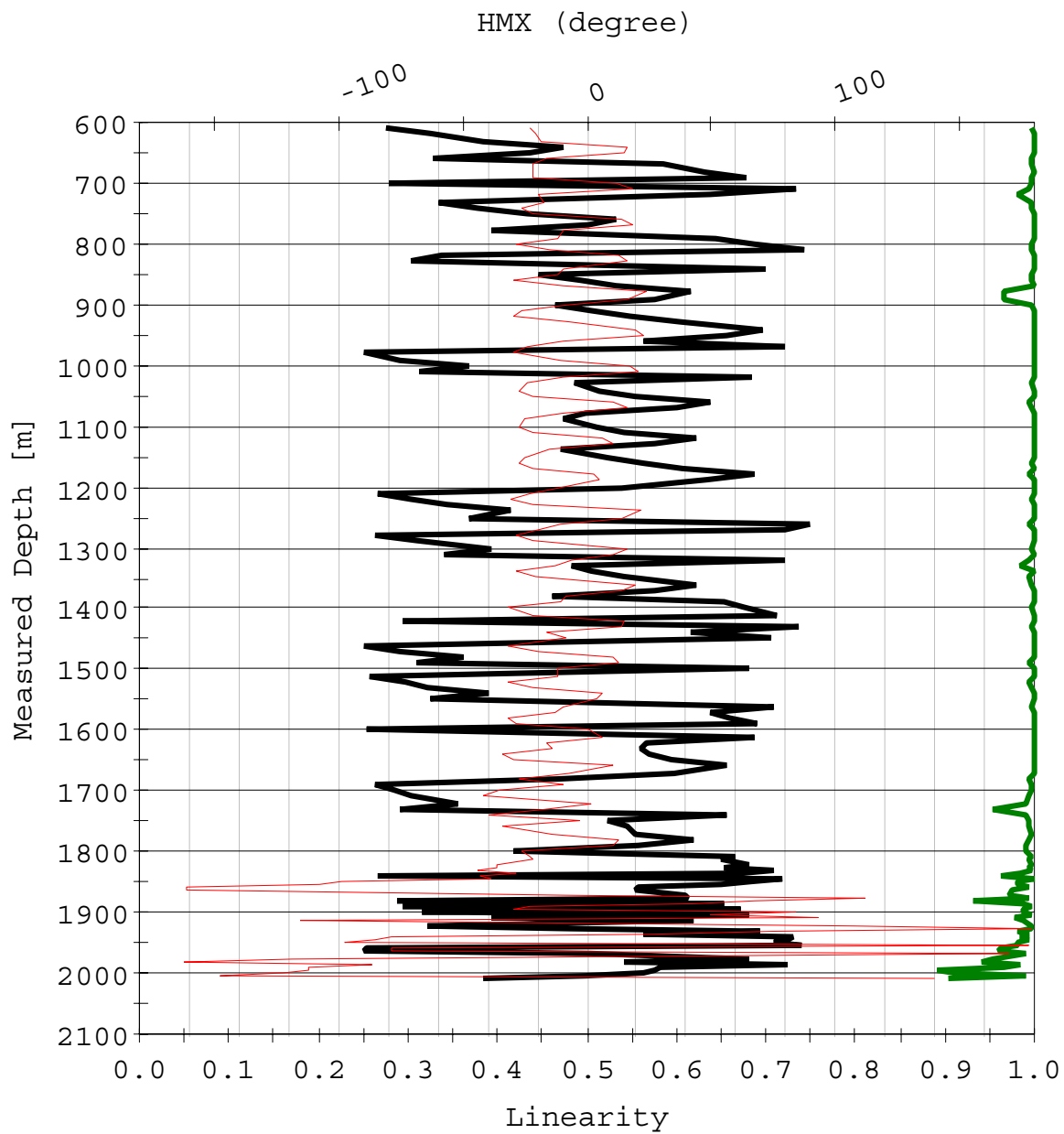
NRY

Normalization Trace by Trace (100%)
Polarity Normal
One Way Time (ms)
Scaling 8.1 cm/sec, 1/7170

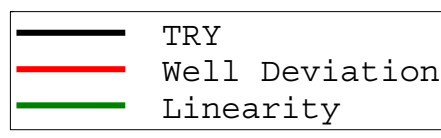
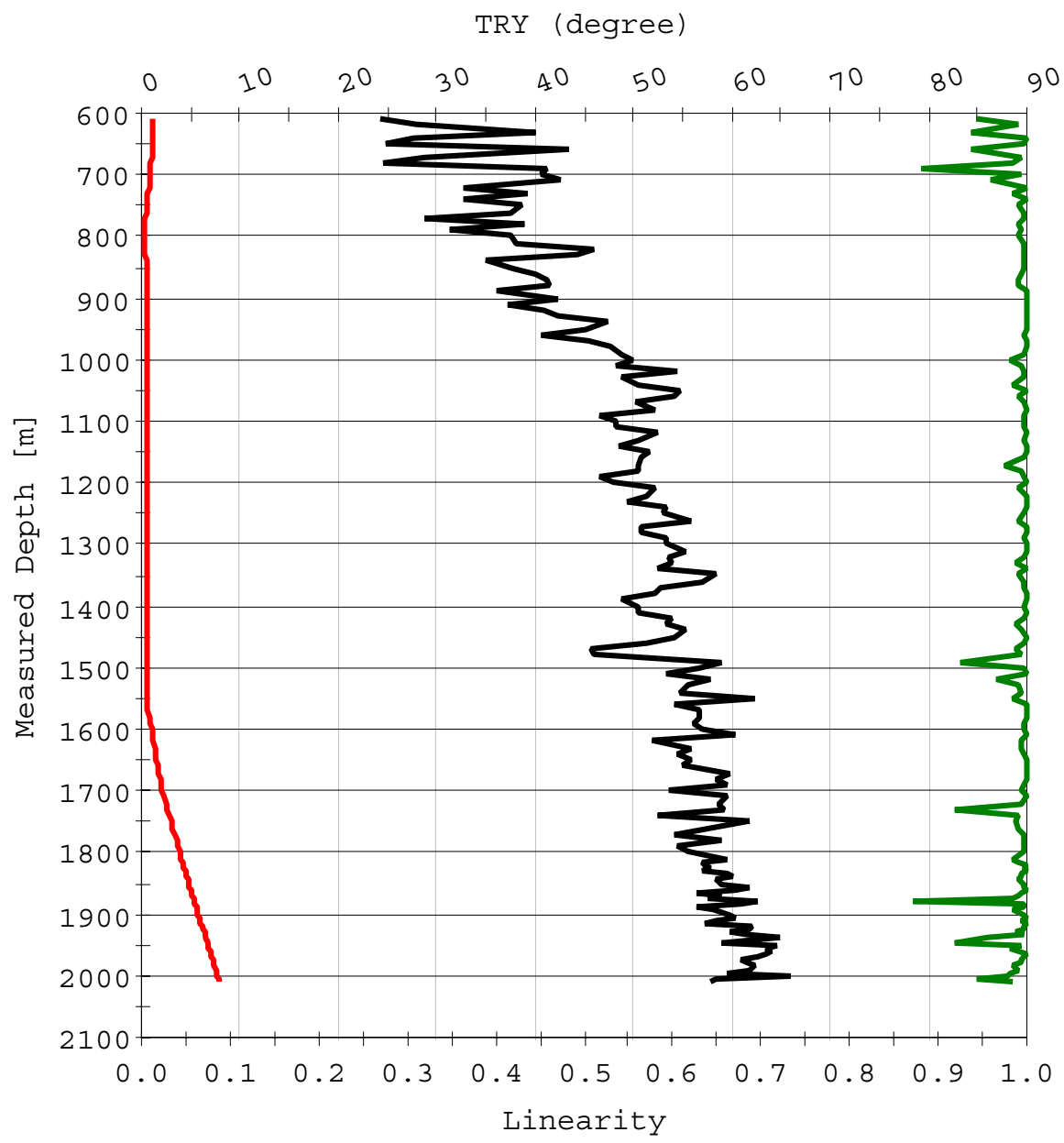




HMX Angle



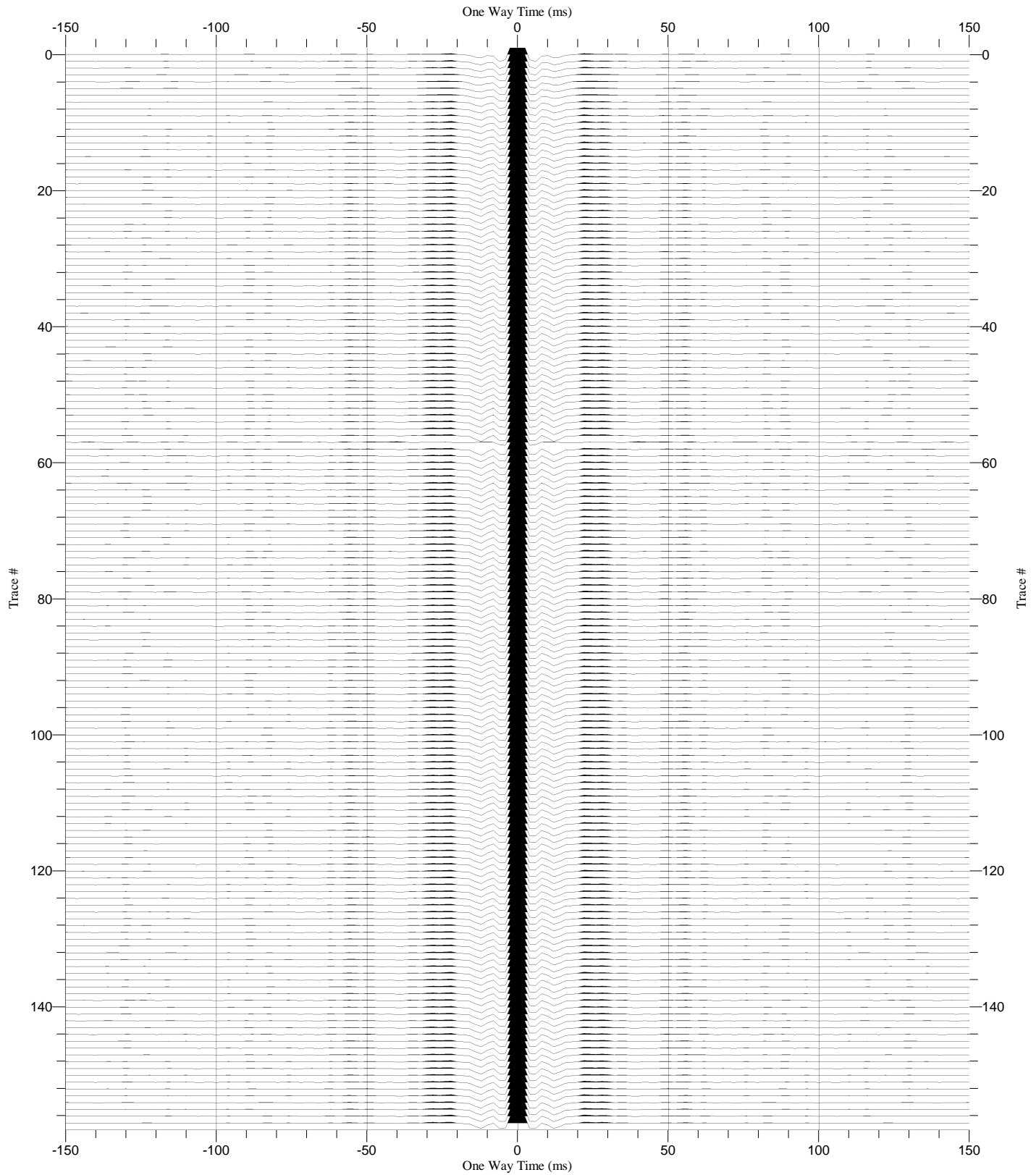
TRY Angle



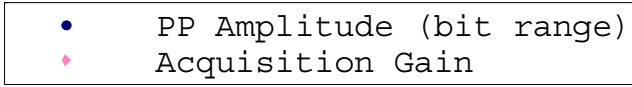
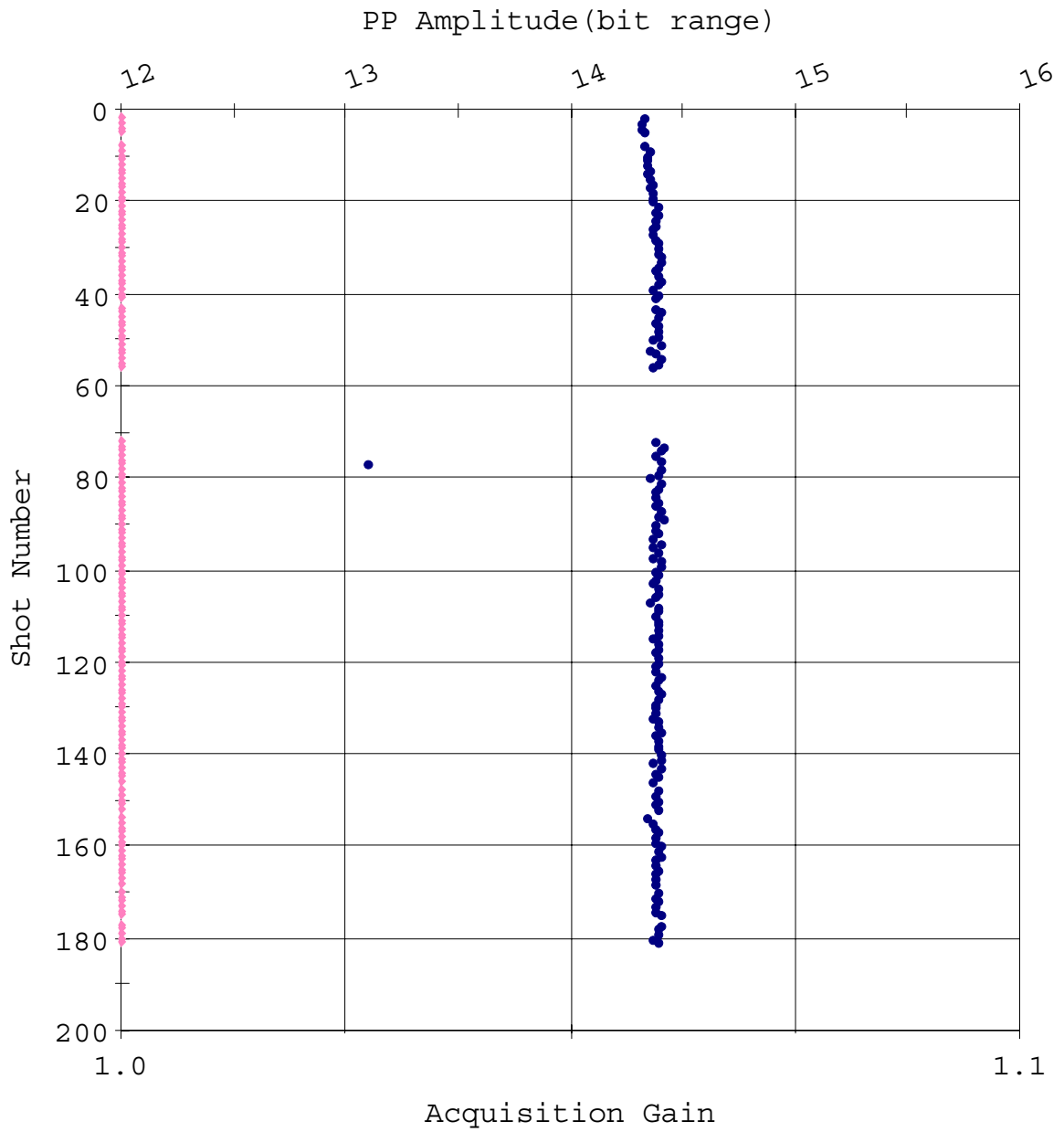
Source Signature QC Report Offset VSP

Source Sensor Signature

Normalization Trace by Trace (300%)
Polarity Normal
One Way Time (ms)
Scaling 55.03 cm/sec, 8.05/cm

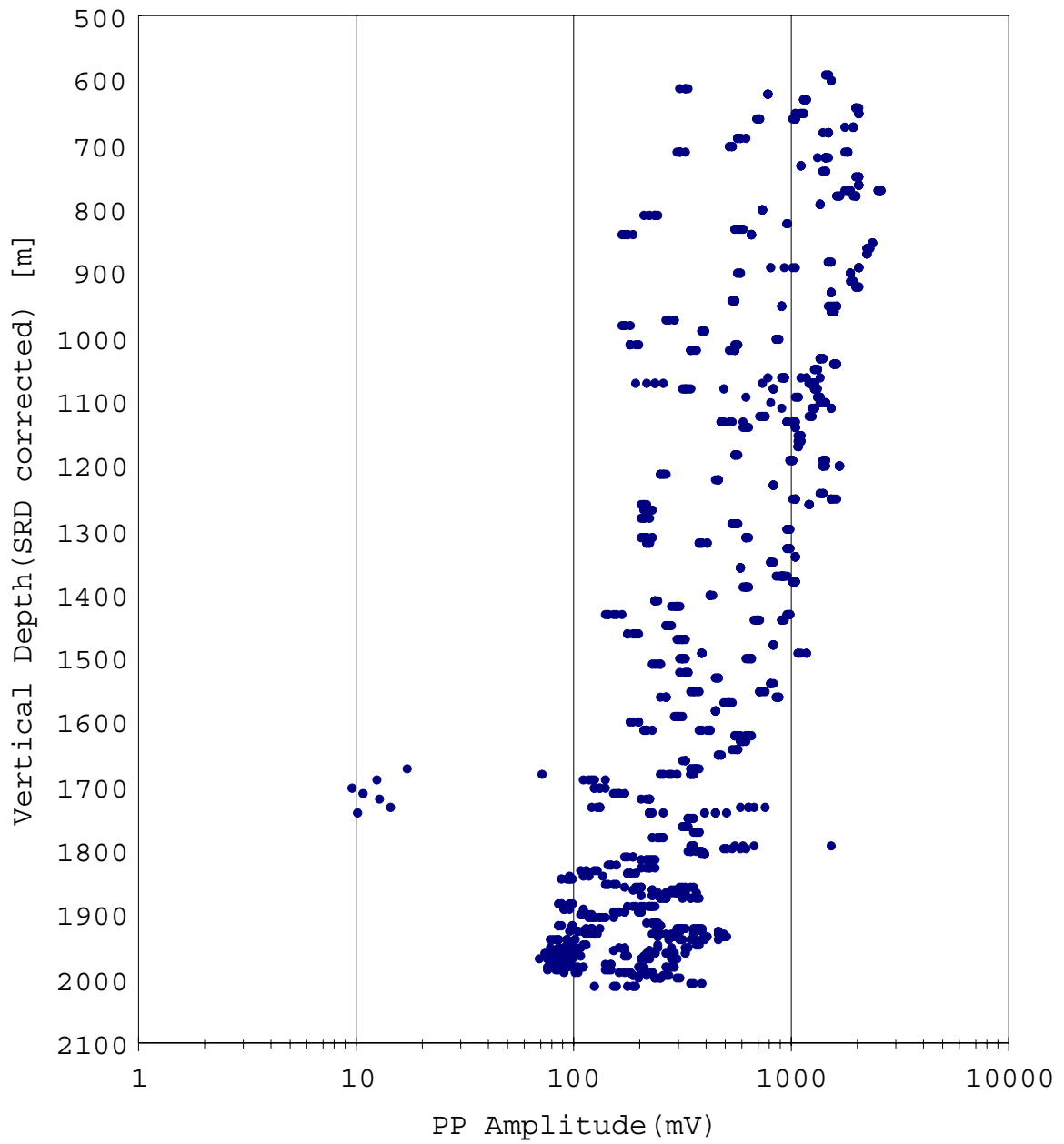


Amplitude QC Plot (Surface)



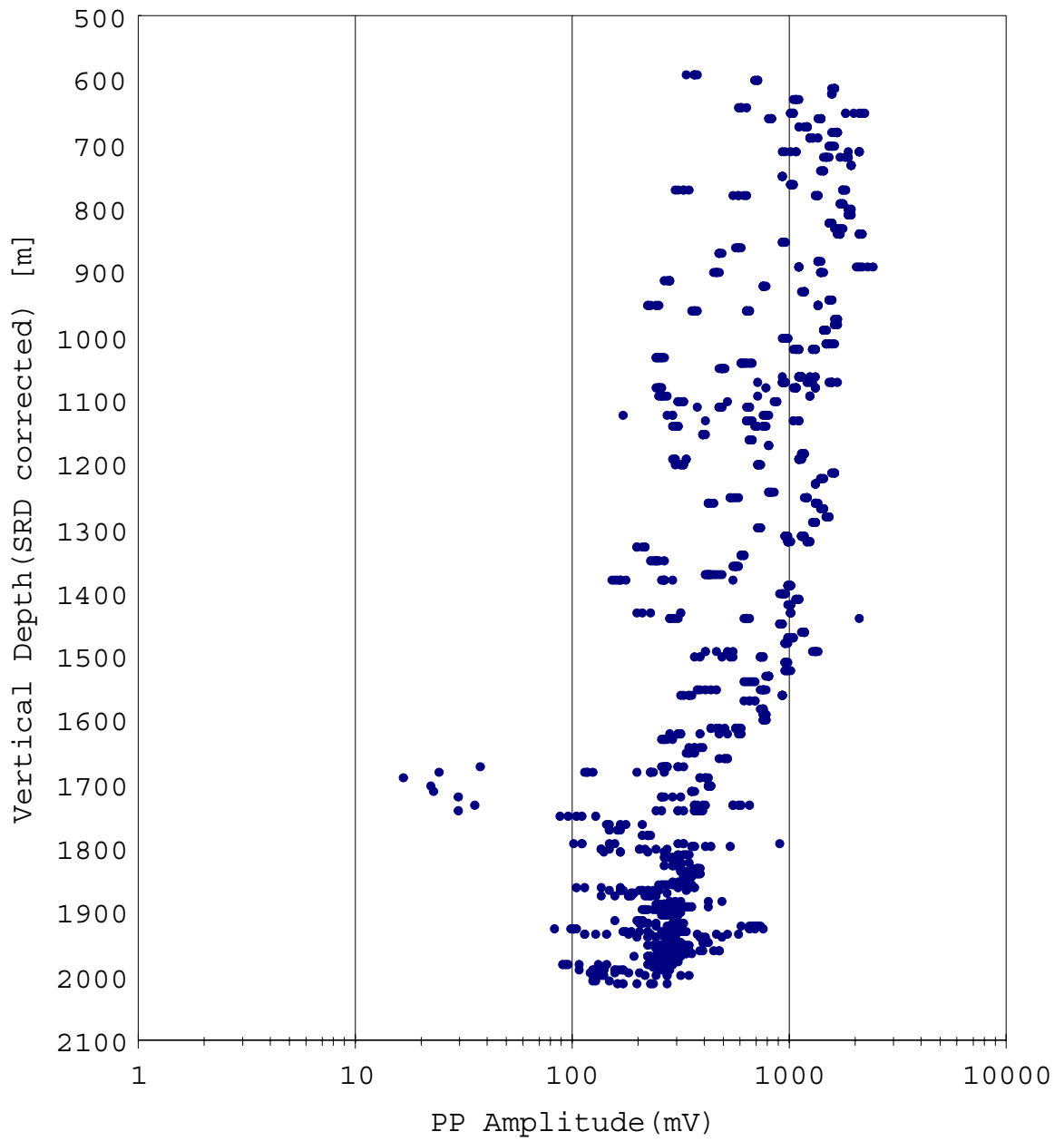
Amplitude QC Report Offset VSP

Peak To Peak Plot (X)



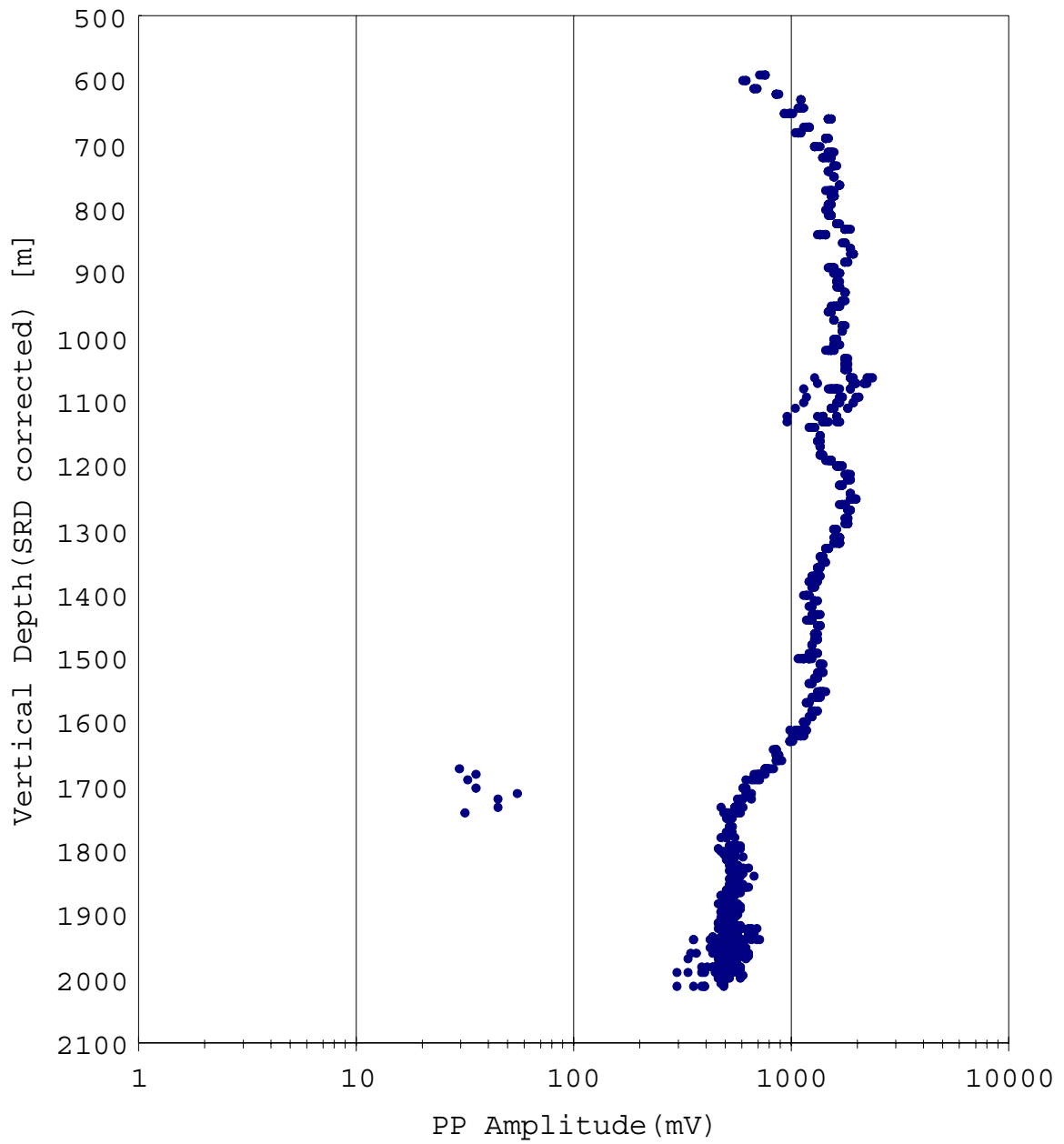
• PP Amplitude (mV)

Peak To Peak Plot (Y)



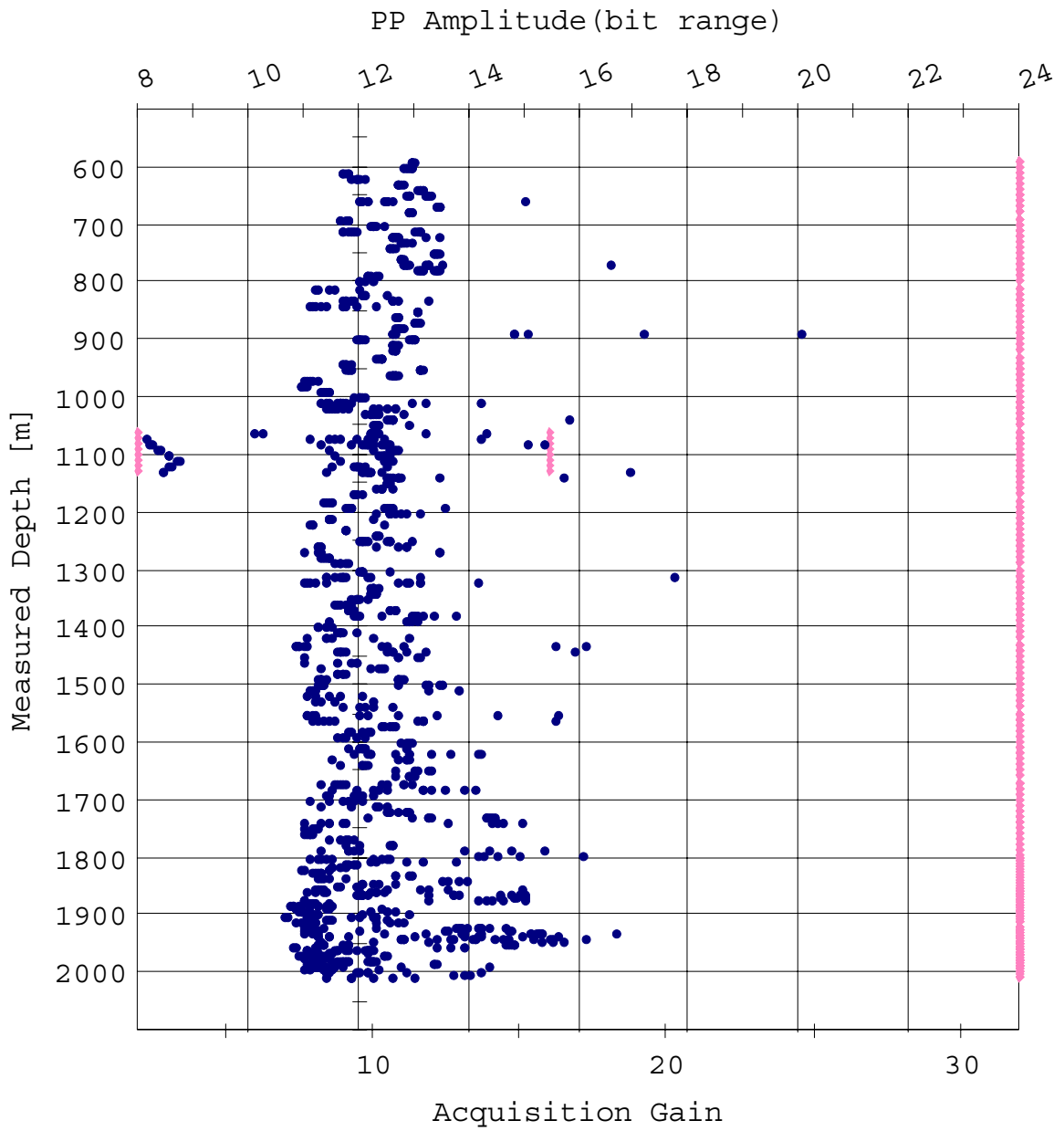
• PP Amplitude (mV)

Peak To Peak Plot (Z)



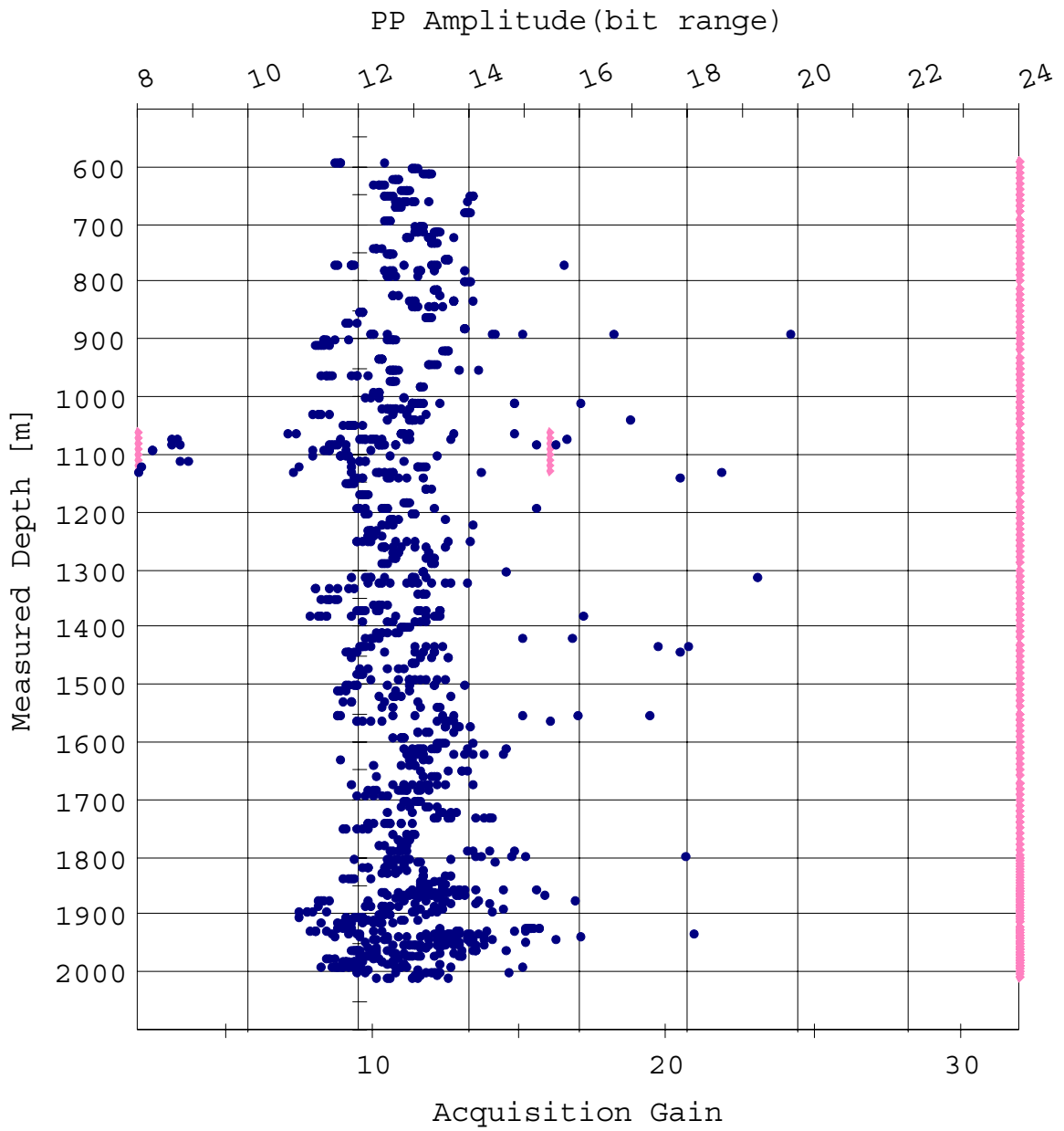
• PP Amplitude (mV)

Amplitude QC Plot (X)



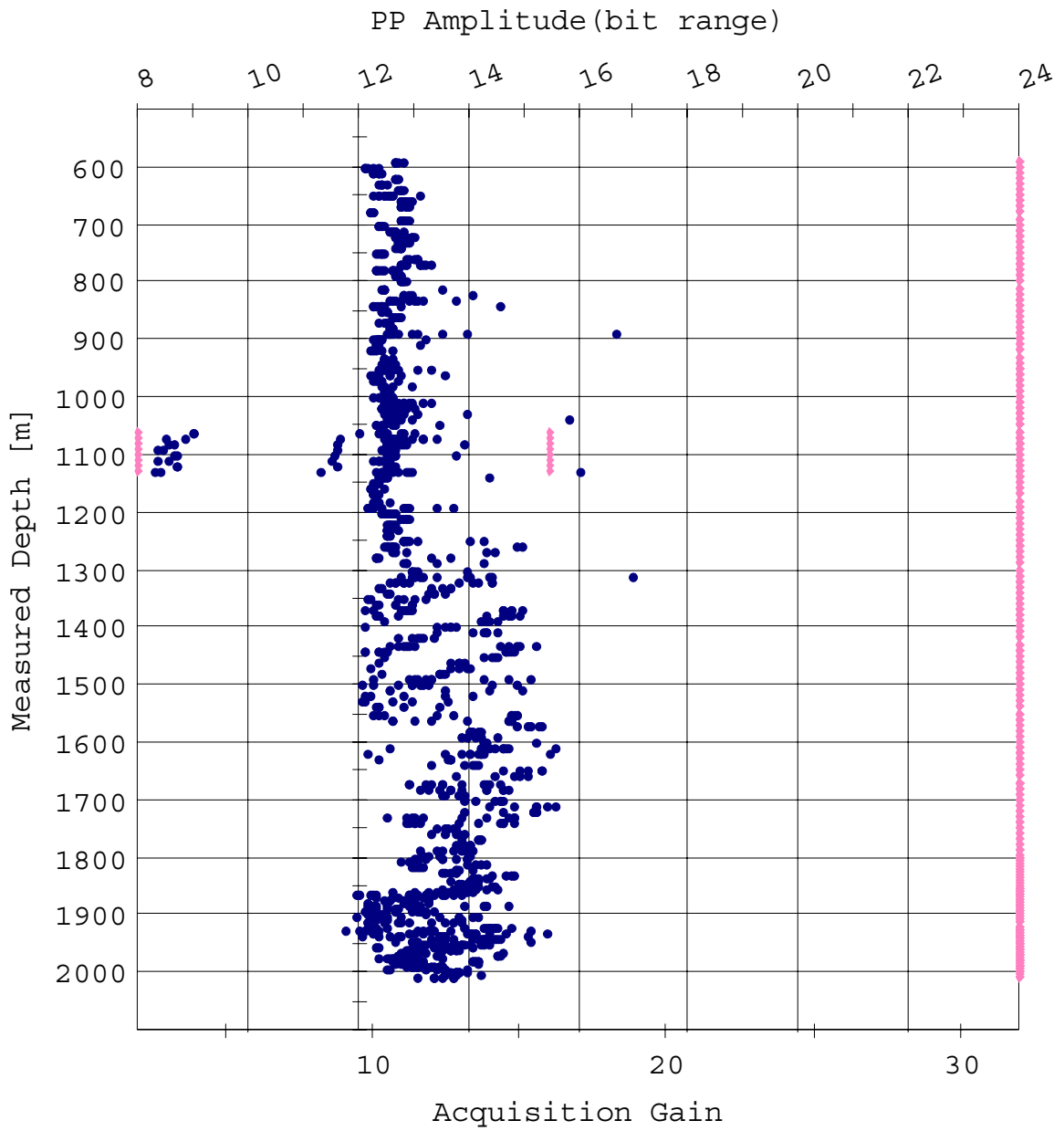
- PP Amplitude (bit range)
- ◆ Acquisition Gain

Amplitude QC Plot (Y)



- PP Amplitude (bit range)
- ◆ Acquisition Gain

Amplitude QC Plot (Z)



- PP Amplitude (bit range)
- ◆ Acquisition Gain

Shot and Observer Report Offset VSP

Observer's Note (1/4)

Well depth [m]	Time	Shot Type	Shot#	Stack#	Source	Remarks
1130.0	13:06:23	SHAK	1			
1130.0	13:07:03	SHOT	2	1	A	10-150 Hz sweep
1130.0	13:08:52	SHOT	3	1	A	10-150 Hz sweep
1130.0	13:11:29	SHOT	4	1	A	10-150 Hz sweep
1130.0	13:13:35	SHOT	5	2	A	10-250 Hz Sweep
2010.0	13:55:08	SHAK	6			
2010.0	13:55:53	BKGD	7			
2010.0	13:56:22	SHOT	8	3	A	10-200 Hz sweep
2010.0	13:57:57	SHOT	9	3	A	10-250 Hz sweep
2010.0	13:59:45	SHOT	10	3	A	10-250 Hz sweep
2010.0	14:02:45	SHOT	11	4	A	10-150 Hz Sweep
2010.0	14:04:28	SHOT	12	4	A	
2010.0	14:05:10	SHOT	13	4	A	
2005.0	14:12:07	SHOT	14	5	A	
2005.0	14:13:25	SHOT	15	5	A	
2005.0	14:14:33	SHOT	16	5	A	
2000.0	14:19:46	SHOT	17	6	A	
2000.0	14:20:29	SHOT	18	6	A	
2000.0	14:21:12	SHOT	19	6	A	
1995.0	14:27:28	SHOT	20	7	A	
1995.0	14:29:07	SHOT	21	7	A	
1995.0	14:29:51	SHOT	22	7	A	
1990.0	14:34:36	SHOT	23	8	A	
1990.0	14:35:17	SHOT	24	8	A	
1990.0	14:36:07	SHOT	25	8	A	
1990.0	14:37:04	SHOT	26	8	A	
1990.0	14:38:08	SHOT	27	8	A	
1990.0	14:38:47	SHOT	28	8	A	
1990.0	14:39:27	SHOT	29	8	A	
1990.0	14:40:06	SHOT	30	8	A	
1990.0	14:40:47	SHOT	31	8	A	
1935.0	14:49:30	SHOT	32	9	A	
1935.0	14:50:17	SHOT	33	9	A	
1935.0	14:50:56	SHOT	34	9	A	
1935.0	14:51:38	SHOT	35	9	A	
1935.0	14:52:30	SHOT	36	9	A	
1930.0	14:57:52	SHOT	37	10	A	
1930.0	14:58:38	SHOT	38	10	A	
1930.0	14:59:26	SHOT	39	10	A	
1930.0	15:00:24	SHOT	40	10	A	
1930.0	15:01:03	SHOT	41	10	A	
1925.0	15:10:24	SHAK	42			
1925.0	15:11:07	SHOT	43	11	A	
1925.0	15:12:35	SHOT	44	11	A	
1925.0	15:13:25	SHOT	45	11	A	
1925.0	15:14:01	SHOT	46	11	A	
1925.0	15:14:36	SHOT	47	11	A	
1865.0	15:21:06	SHOT	48	12	A	
1865.0	15:22:14	SHOT	49	12	A	
1865.0	15:23:01	SHOT	50	12	A	
1865.0	15:23:40	SHOT	51	12	A	
1865.0	15:24:18	SHOT	52	12	A	
1860.0	15:29:14	SHOT	53	13	A	
1860.0	15:31:19	SHOT	54	13	A	
1860.0	15:32:11	SHOT	55	13	A	
1860.0	15:32:52	SHOT	56	13	A	
1860.0	15:34:33	ENLO	57			
1860.0	15:35:13	ENHI	58			
1860.0	15:35:38	ETHD	59			

Observer's Note (2/4)

Well depth [m]	Time	Shot Type	Shot#	Stack#	Source	Remarks
1860.0	15:36:10	DRNG	60			
1860.0	15:36:41	GA02	61			
1860.0	15:36:57	GA04	62			
1860.0	15:37:14	GA08	63			
1860.0	15:37:30	GA16	64			
1860.0	15:37:46	GA32	65			
1860.0	15:38:18	XTLK	66			
1860.0	15:38:55	XTLK	67			
1860.0	15:39:31	XTLK	68			
1860.0	15:40:07	EIMP	69			
1860.0	15:40:46	SHAK	70			
1860.0	15:41:24	BKGD	71			
1800.0	15:47:42	SHOT	72	14	A	
1800.0	15:48:32	SHOT	73	14	A	
1800.0	15:49:09	SHOT	74	14	A	
1800.0	15:49:45	SHOT	75	14	A	
1800.0	15:50:22	SHOT	76	14	A	
1740.0	15:56:22	SHOT	77	15	A	Miss Fire
1740.0	15:57:05	SHOT	78	15	A	
1740.0	15:57:47	SHOT	79	15	A	
1740.0	15:58:32	SHOT	80	15	A	
1740.0	15:59:43	SHOT	81	15	A	
1740.0	16:00:23	SHOT	82	15	A	
1680.0	16:07:42	SHOT	83	16	A	
1680.0	16:08:31	SHOT	84	16	A	
1680.0	16:09:08	SHOT	85	16	A	
1680.0	16:10:21	SHOT	86	16	A	
1680.0	16:11:18	SHOT	87	16	A	
1620.0	16:18:08	SHOT	88	17	A	
1620.0	16:18:54	SHOT	89	17	A	
1620.0	16:19:42	SHOT	90	17	A	
1620.0	16:20:21	SHOT	91	17	A	
1620.0	16:20:59	SHOT	92	17	A	
1560.0	16:26:34	SHOT	93	18	A	
1560.0	16:27:17	SHOT	94	18	A	
1560.0	16:27:54	SHOT	95	18	A	
1560.0	16:28:40	SHOT	96	18	A	
1560.0	16:29:19	SHOT	97	18	A	
1500.0	16:34:42	SHOT	98	19	A	
1500.0	16:35:19	SHOT	99	19	A	
1500.0	16:35:57	SHOT	100	19	A	
1500.0	16:36:42	SHOT	101	19	A	
1500.0	16:37:19	SHOT	102	19	A	
1440.0	16:42:27	SHOT	103	20	A	
1440.0	16:43:06	SHOT	104	20	A	
1440.0	16:44:04	SHOT	105	20	A	
1440.0	16:44:40	SHOT	106	20	A	SPIKE NOISE
1440.0	16:45:27	SHOT	107	20	A	
1440.0	16:46:07	SHOT	108	20	A	
1380.0	16:51:34	SHOT	109	21	A	
1380.0	16:52:12	SHOT	110	21	A	SP NOISE
1380.0	16:53:00	SHOT	111	21	A	
1380.0	16:53:45	SHOT	112	21	A	
1380.0	16:54:22	SHOT	113	21	A	
1380.0	16:55:05	SHOT	114	21	A	
1320.0	17:03:16	SHOT	115	22	A	
1320.0	17:04:33	SHOT	116	22	A	
1320.0	17:05:15	SHOT	117	22	A	
1320.0	17:05:51	SHOT	118	22	A	

Observer's Note (3/4)

Well depth [m]	Time	Shot Type	Shot#	Stack#	Source	Remarks
1320.0	17:06:27	SHOT	119	22	A	
1260.0	17:11:46	SHOT	120	23	A	
1260.0	17:12:49	SHOT	121	23	A	
1260.0	17:13:26	SHOT	122	23	A	
1260.0	17:14:03	SHOT	123	23	A	
1260.0	17:14:42	SHOT	124	23	A	
1200.0	17:19:45	SHOT	125	24	A	
1200.0	17:21:19	SHOT	126	24	A	
1200.0	17:21:54	SHOT	127	24	A	
1200.0	17:22:29	SHOT	128	24	A	
1200.0	17:23:04	SHOT	129	24	A	
1140.0	17:28:16	SHOT	130	25	A	
1140.0	17:28:56	SHOT	131	25	A	
1140.0	17:29:31	SHOT	132	25	A	
1140.0	17:30:07	SHOT	133	25	A	
1140.0	17:30:44	SHOT	134	25	A	
1080.0	17:35:50	SHOT	135	26	A	SP NOISE
1080.0	17:36:29	SHOT	136	26	A	
1080.0	17:37:06	SHOT	137	26	A	
1080.0	17:37:42	SHOT	138	26	A	
1080.0	17:38:20	SHOT	139	26	A	SP NOISE
1080.0	17:39:03	SHOT	140	26	A	
1080.0	17:39:42	SHOT	141	26	A	
1020.0	17:45:03	SHOT	142	27	A	
1020.0	17:45:53	SHOT	143	27	A	
1020.0	17:46:31	SHOT	144	27	A	
1020.0	17:47:22	SHOT	145	27	A	
1020.0	17:47:58	SHOT	146	27	A	
960.0	17:53:37	SHAK	147			
960.0	17:54:08	SHOT	148	28	A	
960.0	17:55:06	SHOT	149	28	A	
960.0	17:55:58	SHOT	150	28	A	
960.0	17:57:18	SHOT	151	28	A	
960.0	17:58:10	SHOT	152	28	A	
900.0	18:03:37	SHAK	153			
900.0	18:04:09	SHOT	154	29	A	
900.0	18:04:49	SHOT	155	29	A	
900.0	18:05:26	SHOT	156	29	A	
900.0	18:06:02	SHOT	157	29	A	
900.0	18:06:39	SHOT	158	29	A	
840.0	18:11:32	SHOT	159	30	A	
840.0	18:12:14	SHOT	160	30	A	
840.0	18:13:14	SHOT	161	30	A	
840.0	18:13:48	SHOT	162	30	A	
840.0	18:14:23	SHOT	163	30	A	
780.0	18:19:21	SHOT	164	31	A	
780.0	18:20:02	SHOT	165	31	A	
780.0	18:20:57	SHOT	166	31	A	
780.0	18:21:33	SHOT	167	31	A	
780.0	18:22:16	SHOT	168	31	A	
720.0	18:27:42	SHOT	170	32	A	
720.0	18:28:29	SHOT	171	32	A	
720.0	18:29:05	SHOT	172	32	A	
720.0	18:29:42	SHOT	173	32	A	
720.0	18:30:25	SHOT	174	32	A	
720.0	18:31:03	SHOT	175	32	A	
660.0	18:37:15	SHAK	176			
660.0	18:37:54	SHOT	177	33	A	
660.0	18:38:44	SHOT	178	33	A	

Observer's Note (4/4)

Well depth[m]	Time	Shot Type	Shot#	Stack#	Source	Remarks
660.0	18:39:22	SHOT	179	33	A	
660.0	18:40:17	SHOT	180	33	A	
660.0	18:40:53	SHOT	181	33	A	

VSI Tool Evaluation Test Report Offset VSP

VSI Seismic Evaluation Report

ELECTRICAL NOISE LOW TEST

2006/05/14 17:04:33

Shot No: 57

Station Depth: 1860.02 m

Evaluation Item	Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result
DC Offset	1	X	-25.2595	milli V	-100.0000	100.0000	PASS
RMS Noise Level	1	X	0.1306	micro V	-	0.5000	PASS
Noise Peak	1	X	0.4471	micro V	-	2.0000	PASS
DC Offset	1	Y	-25.3254	milli V	-100.0000	100.0000	PASS
RMS Noise Level	1	Y	0.1323	micro V	-	0.5000	PASS
Noise Peak	1	Y	0.4450	micro V	-	2.0000	PASS
DC Offset	1	Z	-25.4057	milli V	-100.0000	100.0000	PASS
RMS Noise Level	1	Z	0.1343	micro V	-	0.5000	PASS
Noise Peak	1	Z	0.5213	micro V	-	2.0000	PASS
DC Offset	2	X	-25.3124	milli V	-100.0000	100.0000	PASS
RMS Noise Level	2	X	0.1380	micro V	-	0.5000	PASS
Noise Peak	2	X	0.5300	micro V	-	2.0000	PASS
DC Offset	2	Y	-25.3366	milli V	-100.0000	100.0000	PASS
RMS Noise Level	2	Y	0.1379	micro V	-	0.5000	PASS
Noise Peak	2	Y	0.5865	micro V	-	2.0000	PASS
DC Offset	2	Z	-25.2757	milli V	-100.0000	100.0000	PASS
RMS Noise Level	2	Z	0.1367	micro V	-	0.5000	PASS
Noise Peak	2	Z	0.4828	micro V	-	2.0000	PASS
DC Offset	3	X	-25.3934	milli V	-100.0000	100.0000	PASS
RMS Noise Level	3	X	0.1312	micro V	-	0.5000	PASS
Noise Peak	3	X	0.5216	micro V	-	2.0000	PASS
DC Offset	3	Y	-25.2987	milli V	-100.0000	100.0000	PASS
RMS Noise Level	3	Y	0.1418	micro V	-	0.5000	PASS
Noise Peak	3	Y	0.5445	micro V	-	2.0000	PASS
DC Offset	3	Z	-25.3728	milli V	-100.0000	100.0000	PASS
RMS Noise Level	3	Z	0.1325	micro V	-	0.5000	PASS
Noise Peak	3	Z	0.5004	micro V	-	2.0000	PASS
DC Offset	4	X	-25.3017	milli V	-100.0000	100.0000	PASS
RMS Noise Level	4	X	0.1401	micro V	-	0.5000	PASS
Noise Peak	4	X	0.6245	micro V	-	2.0000	PASS
DC Offset	4	Y	-25.3424	milli V	-100.0000	100.0000	PASS
RMS Noise Level	4	Y	0.1347	micro V	-	0.5000	PASS
Noise Peak	4	Y	0.4702	micro V	-	2.0000	PASS
DC Offset	4	Z	-25.2993	milli V	-100.0000	100.0000	PASS
RMS Noise Level	4	Z	0.1324	micro V	-	0.5000	PASS
Noise Peak	4	Z	0.4839	micro V	-	2.0000	PASS
DC Offset	5	X	-25.2687	milli V	-100.0000	100.0000	PASS
RMS Noise Level	5	X	0.1310	micro V	-	0.5000	PASS
Noise Peak	5	X	0.4726	micro V	-	2.0000	PASS
DC Offset	5	Y	-25.3504	milli V	-100.0000	100.0000	PASS
RMS Noise Level	5	Y	0.1351	micro V	-	0.5000	PASS
Noise Peak	5	Y	0.5452	micro V	-	2.0000	PASS
DC Offset	5	Z	-25.3308	milli V	-100.0000	100.0000	PASS
RMS Noise Level	5	Z	0.1342	micro V	-	0.5000	PASS
Noise Peak	5	Z	0.4849	micro V	-	2.0000	PASS
DC Offset	6	X	-25.4129	milli V	-100.0000	100.0000	PASS
RMS Noise Level	6	X	0.1339	micro V	-	0.5000	PASS
Noise Peak	6	X	0.4988	micro V	-	2.0000	PASS
DC Offset	6	Y	-25.3381	milli V	-100.0000	100.0000	PASS
RMS Noise Level	6	Y	0.1321	micro V	-	0.5000	PASS
Noise Peak	6	Y	0.5020	micro V	-	2.0000	PASS
DC Offset	6	Z	-25.3510	milli V	-100.0000	100.0000	PASS
RMS Noise Level	6	Z	0.1295	micro V	-	0.5000	PASS
Noise Peak	6	Z	0.4731	micro V	-	2.0000	PASS
DC Offset	7	X	-25.3218	milli V	-100.0000	100.0000	PASS
RMS Noise Level	7	X	0.1389	micro V	-	0.5000	PASS
Noise Peak	7	X	0.4786	micro V	-	2.0000	PASS

DC Offset	7	Y	-25.2864	milli V	-100.0000	100.0000	PASS
RMS Noise Level	7	Y	0.1346	micro V	-	0.5000	PASS
Noise Peak	7	Y	0.5383	micro V	-	2.0000	PASS
DC Offset	7	Z	-25.3352	milli V	-100.0000	100.0000	PASS
RMS Noise Level	7	Z	0.1376	micro V	-	0.5000	PASS
Noise Peak	7	Z	0.5101	micro V	-	2.0000	PASS
DC Offset	8	X	-25.4204	milli V	-100.0000	100.0000	PASS
RMS Noise Level	8	X	0.1329	micro V	-	0.5000	PASS
Noise Peak	8	X	0.5091	micro V	-	2.0000	PASS
DC Offset	8	Y	-25.2824	milli V	-100.0000	100.0000	PASS
RMS Noise Level	8	Y	0.1368	micro V	-	0.5000	PASS
Noise Peak	8	Y	0.4884	micro V	-	2.0000	PASS
DC Offset	8	Z	-25.4469	milli V	-100.0000	100.0000	PASS
RMS Noise Level	8	Z	0.1372	micro V	-	0.5000	PASS
Noise Peak	8	Z	0.4651	micro V	-	2.0000	PASS

ELECTRICAL NOISE HIGH TEST

2006/05/14 17:05:13

Shot No: 58

Station Depth: 1860.02 m

Evaluation Item	Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result
DC Offset	1	X	-25.0744	milli V	-100.0000	100.0000	PASS
RMS Noise Level	1	X	0.1313	micro V	-	0.5000	PASS
Noise Peak	1	X	0.4991	micro V	-	2.0000	PASS
DC Offset	1	Y	-25.1310	milli V	-100.0000	100.0000	PASS
RMS Noise Level	1	Y	0.1310	micro V	-	0.5000	PASS
Noise Peak	1	Y	0.4478	micro V	-	2.0000	PASS
DC Offset	1	Z	-25.3944	milli V	-100.0000	100.0000	PASS
RMS Noise Level	1	Z	0.1309	micro V	-	0.5000	PASS
Noise Peak	1	Z	0.5142	micro V	-	2.0000	PASS
DC Offset	2	X	-24.8059	milli V	-100.0000	100.0000	PASS
RMS Noise Level	2	X	0.1361	micro V	-	0.5000	PASS
Noise Peak	2	X	0.4397	micro V	-	2.0000	PASS
DC Offset	2	Y	-24.9706	milli V	-100.0000	100.0000	PASS
RMS Noise Level	2	Y	0.1330	micro V	-	0.5000	PASS
Noise Peak	2	Y	0.4786	micro V	-	2.0000	PASS
DC Offset	2	Z	-25.2426	milli V	-100.0000	100.0000	PASS
RMS Noise Level	2	Z	0.1351	micro V	-	0.5000	PASS
Noise Peak	2	Z	0.4694	micro V	-	2.0000	PASS
DC Offset	3	X	-25.1475	milli V	-100.0000	100.0000	PASS
RMS Noise Level	3	X	0.1339	micro V	-	0.5000	PASS
Noise Peak	3	X	0.4479	micro V	-	2.0000	PASS
DC Offset	3	Y	-25.4512	milli V	-100.0000	100.0000	PASS
RMS Noise Level	3	Y	0.1391	micro V	-	0.5000	PASS
Noise Peak	3	Y	0.4980	micro V	-	2.0000	PASS
DC Offset	3	Z	-25.2968	milli V	-100.0000	100.0000	PASS
RMS Noise Level	3	Z	0.1309	micro V	-	0.5000	PASS
Noise Peak	3	Z	0.4813	micro V	-	2.0000	PASS
DC Offset	4	X	-25.2290	milli V	-100.0000	100.0000	PASS
RMS Noise Level	4	X	0.1334	micro V	-	0.5000	PASS
Noise Peak	4	X	0.4709	micro V	-	2.0000	PASS
DC Offset	4	Y	-25.1197	milli V	-100.0000	100.0000	PASS
RMS Noise Level	4	Y	0.1319	micro V	-	0.5000	PASS
Noise Peak	4	Y	0.5940	micro V	-	2.0000	PASS
DC Offset	4	Z	-25.2095	milli V	-100.0000	100.0000	PASS
RMS Noise Level	4	Z	0.1378	micro V	-	0.5000	PASS
Noise Peak	4	Z	0.5067	micro V	-	2.0000	PASS
DC Offset	5	X	-25.0175	milli V	-100.0000	100.0000	PASS
RMS Noise Level	5	X	0.1356	micro V	-	0.5000	PASS
Noise Peak	5	X	0.5685	micro V	-	2.0000	PASS
DC Offset	5	Y	-25.3357	milli V	-100.0000	100.0000	PASS
RMS Noise Level	5	Y	0.1320	micro V	-	0.5000	PASS
Noise Peak	5	Y	0.4696	micro V	-	2.0000	PASS
DC Offset	5	Z	-25.2957	milli V	-100.0000	100.0000	PASS

RMS Noise Level	5	Z	0.1345	micro V	-	0.5000	PASS
Noise Peak	5	Z	0.4912	micro V	-	2.0000	PASS
DC Offset	6	X	-25.3685	milli V	-100.0000	100.0000	PASS
RMS Noise Level	6	X	0.1328	micro V	-	0.5000	PASS
Noise Peak	6	X	0.4701	micro V	-	2.0000	PASS
DC Offset	6	Y	-25.0319	milli V	-100.0000	100.0000	PASS
RMS Noise Level	6	Y	0.1323	micro V	-	0.5000	PASS
Noise Peak	6	Y	0.5611	micro V	-	2.0000	PASS
DC Offset	6	Z	-24.9589	milli V	-100.0000	100.0000	PASS
RMS Noise Level	6	Z	0.1336	micro V	-	0.5000	PASS
Noise Peak	6	Z	0.4666	micro V	-	2.0000	PASS
DC Offset	7	X	-25.1626	milli V	-100.0000	100.0000	PASS
RMS Noise Level	7	X	0.1382	micro V	-	0.5000	PASS
Noise Peak	7	X	0.5256	micro V	-	2.0000	PASS
DC Offset	7	Y	-24.9908	milli V	-100.0000	100.0000	PASS
RMS Noise Level	7	Y	0.1353	micro V	-	0.5000	PASS
Noise Peak	7	Y	0.4727	micro V	-	2.0000	PASS
DC Offset	7	Z	-25.1337	milli V	-100.0000	100.0000	PASS
RMS Noise Level	7	Z	0.1347	micro V	-	0.5000	PASS
Noise Peak	7	Z	0.5003	micro V	-	2.0000	PASS
DC Offset	8	X	-25.1959	milli V	-100.0000	100.0000	PASS
RMS Noise Level	8	X	0.1334	micro V	-	0.5000	PASS
Noise Peak	8	X	0.4621	micro V	-	2.0000	PASS
DC Offset	8	Y	-24.9764	milli V	-100.0000	100.0000	PASS
RMS Noise Level	8	Y	0.1337	micro V	-	0.5000	PASS
Noise Peak	8	Y	0.4481	micro V	-	2.0000	PASS
DC Offset	8	Z	-25.1096	milli V	-100.0000	100.0000	PASS
RMS Noise Level	8	Z	0.1343	micro V	-	0.5000	PASS
Noise Peak	8	Z	0.4851	micro V	-	2.0000	PASS

ELECTRICAL DISTORTION TEST

2006/05/14 17:05:38

Shot No: 59

Station Depth: 1860.02 m

Evaluation Item	Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result
Total Harmonic Distortion	1	X	-98.5088	dB	-	-90.0000	PASS
Total Harmonic Distortion	1	Y	-98.8355	dB	-	-90.0000	PASS
Total Harmonic Distortion	1	Z	-100.0197	dB	-	-90.0000	PASS
Total Harmonic Distortion	2	X	-98.9537	dB	-	-90.0000	PASS
Total Harmonic Distortion	2	Y	-98.5950	dB	-	-90.0000	PASS
Total Harmonic Distortion	2	Z	-99.2795	dB	-	-90.0000	PASS
Total Harmonic Distortion	3	X	-99.7574	dB	-	-90.0000	PASS
Total Harmonic Distortion	3	Y	-99.2945	dB	-	-90.0000	PASS
Total Harmonic Distortion	3	Z	-100.8400	dB	-	-90.0000	PASS
Total Harmonic Distortion	4	X	-99.2626	dB	-	-90.0000	PASS
Total Harmonic Distortion	4	Y	-100.1342	dB	-	-90.0000	PASS
Total Harmonic Distortion	4	Z	-97.9395	dB	-	-90.0000	PASS
Total Harmonic Distortion	5	X	-95.1021	dB	-	-90.0000	PASS
Total Harmonic Distortion	5	Y	-96.2638	dB	-	-90.0000	PASS
Total Harmonic Distortion	5	Z	-95.6106	dB	-	-90.0000	PASS
Total Harmonic Distortion	6	X	-97.3884	dB	-	-90.0000	PASS
Total Harmonic Distortion	6	Y	-99.8732	dB	-	-90.0000	PASS
Total Harmonic Distortion	6	Z	-97.0059	dB	-	-90.0000	PASS
Total Harmonic Distortion	7	X	-98.7819	dB	-	-90.0000	PASS
Total Harmonic Distortion	7	Y	-98.2965	dB	-	-90.0000	PASS
Total Harmonic Distortion	7	Z	-97.3272	dB	-	-90.0000	PASS
Total Harmonic Distortion	8	X	-98.0003	dB	-	-90.0000	PASS
Total Harmonic Distortion	8	Y	-96.9682	dB	-	-90.0000	PASS
Total Harmonic Distortion	8	Z	-98.6744	dB	-	-90.0000	PASS

SYSTEM DYNAMIC RANGE TEST

2006/05/14 17:06:10

Shot No: 60

Station Depth: 1860.02 m

Evaluation Item	Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result

System Dynamic Range	1	X	107.4968	dB	103.0000	-	PASS
System Dynamic Range	1	Y	107.7680	dB	103.0000	-	PASS
System Dynamic Range	1	Z	107.3393	dB	103.0000	-	PASS
System Dynamic Range	2	X	107.1143	dB	103.0000	-	PASS
System Dynamic Range	2	Y	107.5510	dB	103.0000	-	PASS
System Dynamic Range	2	Z	107.2407	dB	103.0000	-	PASS
System Dynamic Range	3	X	106.6730	dB	103.0000	-	PASS
System Dynamic Range	3	Y	106.7225	dB	103.0000	-	PASS
System Dynamic Range	3	Z	105.9979	dB	103.0000	-	PASS
System Dynamic Range	4	X	107.0696	dB	103.0000	-	PASS
System Dynamic Range	4	Y	107.6317	dB	103.0000	-	PASS
System Dynamic Range	4	Z	107.4212	dB	103.0000	-	PASS
System Dynamic Range	5	X	107.3727	dB	103.0000	-	PASS
System Dynamic Range	5	Y	106.7087	dB	103.0000	-	PASS
System Dynamic Range	5	Z	107.4460	dB	103.0000	-	PASS
System Dynamic Range	6	X	106.5531	dB	103.0000	-	PASS
System Dynamic Range	6	Y	106.6772	dB	103.0000	-	PASS
System Dynamic Range	6	Z	106.7028	dB	103.0000	-	PASS
System Dynamic Range	7	X	107.0458	dB	103.0000	-	PASS
System Dynamic Range	7	Y	107.1243	dB	103.0000	-	PASS
System Dynamic Range	7	Z	107.3905	dB	103.0000	-	PASS
System Dynamic Range	8	X	108.0670	dB	103.0000	-	PASS
System Dynamic Range	8	Y	107.9883	dB	103.0000	-	PASS
System Dynamic Range	8	Z	108.1101	dB	103.0000	-	PASS

AMPLIFIER GAIN 2 TEST

2006/05/14 17:06:41

Shot No: 61

Station Depth: 1860.02 m

Evaluation Item	Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result
Gain Accuracy	1	X	0.2817	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	1	X	0.0000	dB	-0.5000	0.5000	PASS
Gain Accuracy	1	Y	0.2418	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	1	Y	0.0000	dB	-0.5000	0.5000	PASS
Gain Accuracy	1	Z	0.2888	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	1	Z	0.0000	dB	-0.5000	0.5000	PASS
Gain Accuracy	2	X	0.1177	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	2	X	0.0000	dB	-0.5000	0.5000	PASS
Gain Accuracy	2	Y	0.1186	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	2	Y	0.0000	dB	-0.5000	0.5000	PASS
Gain Accuracy	2	Z	0.1220	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	2	Z	0.0000	dB	-0.5000	0.5000	PASS
Gain Accuracy	3	X	0.1217	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	3	X	0.0000	dB	-0.5000	0.5000	PASS
Gain Accuracy	3	Y	0.1324	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	3	Y	0.0000	dB	-0.5000	0.5000	PASS
Gain Accuracy	3	Z	0.1305	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	3	Z	0.0000	dB	-0.5000	0.5000	PASS
Gain Accuracy	4	X	0.1320	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	4	X	0.0000	dB	-0.5000	0.5000	PASS
Gain Accuracy	4	Y	0.1214	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	4	Y	0.0000	dB	-0.5000	0.5000	PASS
Gain Accuracy	4	Z	0.1306	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	4	Z	0.0000	dB	-0.5000	0.5000	PASS
Gain Accuracy	5	X	0.1159	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	5	X	0.0000	dB	-0.5000	0.5000	PASS
Gain Accuracy	5	Y	0.1212	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	5	Y	0.0000	dB	-0.5000	0.5000	PASS
Gain Accuracy	5	Z	0.1202	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	5	Z	0.0000	dB	-0.5000	0.5000	PASS
Gain Accuracy	6	X	0.1096	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	6	X	0.0000	dB	-0.5000	0.5000	PASS
Gain Accuracy	6	Y	0.1046	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	6	Y	0.0000	dB	-0.5000	0.5000	PASS

Gain Accuracy	6	Z	0.1114	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	6	Z	0.0000	dB	-0.5000	0.5000	PASS
Gain Accuracy	7	X	0.1040	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	7	X	0.0000	dB	-0.5000	0.5000	PASS
Gain Accuracy	7	Y	0.1150	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	7	Y	0.0000	dB	-0.5000	0.5000	PASS
Gain Accuracy	7	Z	0.1234	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	7	Z	0.0000	dB	-0.5000	0.5000	PASS
Gain Accuracy	8	X	0.1077	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	8	X	0.0000	dB	-0.5000	0.5000	PASS
Gain Accuracy	8	Y	0.1162	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	8	Y	0.0000	dB	-0.5000	0.5000	PASS
Gain Accuracy	8	Z	0.1066	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	8	Z	0.0000	dB	-0.5000	0.5000	PASS

AMPLIFIER GAIN 4 TEST

2006/05/14 17:06:57

Shot No: 62

Station Depth: 1860.02 m

Evaluation Item	Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result
Gain Accuracy	1	X	0.2836	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	1	X	-0.0019	dB	-0.5000	0.5000	PASS
Gain Accuracy	1	Y	0.2377	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	1	Y	0.0041	dB	-0.5000	0.5000	PASS
Gain Accuracy	1	Z	0.2863	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	1	Z	0.0025	dB	-0.5000	0.5000	PASS
Gain Accuracy	2	X	0.1170	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	2	X	0.0006	dB	-0.5000	0.5000	PASS
Gain Accuracy	2	Y	0.1166	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	2	Y	0.0020	dB	-0.5000	0.5000	PASS
Gain Accuracy	2	Z	0.1198	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	2	Z	0.0022	dB	-0.5000	0.5000	PASS
Gain Accuracy	3	X	0.1207	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	3	X	0.0011	dB	-0.5000	0.5000	PASS
Gain Accuracy	3	Y	0.1314	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	3	Y	0.0010	dB	-0.5000	0.5000	PASS
Gain Accuracy	3	Z	0.1347	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	3	Z	-0.0042	dB	-0.5000	0.5000	PASS
Gain Accuracy	4	X	0.1314	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	4	X	0.0006	dB	-0.5000	0.5000	PASS
Gain Accuracy	4	Y	0.1182	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	4	Y	0.0032	dB	-0.5000	0.5000	PASS
Gain Accuracy	4	Z	0.1276	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	4	Z	0.0030	dB	-0.5000	0.5000	PASS
Gain Accuracy	5	X	0.1138	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	5	X	0.0020	dB	-0.5000	0.5000	PASS
Gain Accuracy	5	Y	0.1219	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	5	Y	-0.0007	dB	-0.5000	0.5000	PASS
Gain Accuracy	5	Z	0.1155	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	5	Z	0.0047	dB	-0.5000	0.5000	PASS
Gain Accuracy	6	X	0.1069	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	6	X	0.0027	dB	-0.5000	0.5000	PASS
Gain Accuracy	6	Y	0.1033	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	6	Y	0.0013	dB	-0.5000	0.5000	PASS
Gain Accuracy	6	Z	0.1101	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	6	Z	0.0013	dB	-0.5000	0.5000	PASS
Gain Accuracy	7	X	0.1014	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	7	X	0.0026	dB	-0.5000	0.5000	PASS
Gain Accuracy	7	Y	0.1129	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	7	Y	0.0021	dB	-0.5000	0.5000	PASS
Gain Accuracy	7	Z	0.1221	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	7	Z	0.0013	dB	-0.5000	0.5000	PASS
Gain Accuracy	8	X	0.1062	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	8	X	0.0015	dB	-0.5000	0.5000	PASS

Gain Accuracy	8	Y	0.1160	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	8	Y	0.0002	dB	-0.5000	0.5000	PASS
Gain Accuracy	8	Z	0.1025	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	8	Z	0.0040	dB	-0.5000	0.5000	PASS

AMPLIFIER GAIN 8 TEST

2006/05/14 17:07:14

Shot No: 63

Station Depth: 1860.02 m

Evaluation Item	Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result
Gain Accuracy	1	X	0.2846	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	1	X	-0.0029	dB	-0.5000	0.5000	PASS
Gain Accuracy	1	Y	0.2394	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	1	Y	0.0024	dB	-0.5000	0.5000	PASS
Gain Accuracy	1	Z	0.2864	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	1	Z	0.0024	dB	-0.5000	0.5000	PASS
Gain Accuracy	2	X	0.1182	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	2	X	-0.0005	dB	-0.5000	0.5000	PASS
Gain Accuracy	2	Y	0.1178	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	2	Y	0.0008	dB	-0.5000	0.5000	PASS
Gain Accuracy	2	Z	0.1219	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	2	Z	0.0001	dB	-0.5000	0.5000	PASS
Gain Accuracy	3	X	0.1208	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	3	X	0.0010	dB	-0.5000	0.5000	PASS
Gain Accuracy	3	Y	0.1336	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	3	Y	-0.0012	dB	-0.5000	0.5000	PASS
Gain Accuracy	3	Z	0.1387	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	3	Z	-0.0082	dB	-0.5000	0.5000	PASS
Gain Accuracy	4	X	0.1339	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	4	X	-0.0019	dB	-0.5000	0.5000	PASS
Gain Accuracy	4	Y	0.1206	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	4	Y	0.0008	dB	-0.5000	0.5000	PASS
Gain Accuracy	4	Z	0.1281	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	4	Z	0.0025	dB	-0.5000	0.5000	PASS
Gain Accuracy	5	X	0.1143	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	5	X	0.0015	dB	-0.5000	0.5000	PASS
Gain Accuracy	5	Y	0.1225	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	5	Y	-0.0013	dB	-0.5000	0.5000	PASS
Gain Accuracy	5	Z	0.1170	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	5	Z	0.0032	dB	-0.5000	0.5000	PASS
Gain Accuracy	6	X	0.1069	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	6	X	0.0027	dB	-0.5000	0.5000	PASS
Gain Accuracy	6	Y	0.1055	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	6	Y	-0.0009	dB	-0.5000	0.5000	PASS
Gain Accuracy	6	Z	0.1083	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	6	Z	0.0031	dB	-0.5000	0.5000	PASS
Gain Accuracy	7	X	0.1010	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	7	X	0.0030	dB	-0.5000	0.5000	PASS
Gain Accuracy	7	Y	0.1124	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	7	Y	0.0026	dB	-0.5000	0.5000	PASS
Gain Accuracy	7	Z	0.1233	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	7	Z	0.0001	dB	-0.5000	0.5000	PASS
Gain Accuracy	8	X	0.1066	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	8	X	0.0011	dB	-0.5000	0.5000	PASS
Gain Accuracy	8	Y	0.1148	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	8	Y	0.0015	dB	-0.5000	0.5000	PASS
Gain Accuracy	8	Z	0.1055	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	8	Z	0.0011	dB	-0.5000	0.5000	PASS

AMPLIFIER GAIN 16 TEST

2006/05/14 17:07:30

Shot No: 64

Station Depth: 1860.02 m

Evaluation Item	Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result
Gain Accuracy	1	X	0.2816	dB	-0.5000	0.5000	PASS

Gain Step Accuracy	1	X	0.0001	dB	-0.5000	0.5000	PASS
Gain Accuracy	1	Y	0.2336	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	1	Y	0.0082	dB	-0.5000	0.5000	PASS
Gain Accuracy	1	Z	0.2844	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	1	Z	0.0044	dB	-0.5000	0.5000	PASS
Gain Accuracy	2	X	0.1166	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	2	X	0.0011	dB	-0.5000	0.5000	PASS
Gain Accuracy	2	Y	0.1128	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	2	Y	0.0058	dB	-0.5000	0.5000	PASS
Gain Accuracy	2	Z	0.1196	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	2	Z	0.0024	dB	-0.5000	0.5000	PASS
Gain Accuracy	3	X	0.1174	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	3	X	0.0043	dB	-0.5000	0.5000	PASS
Gain Accuracy	3	Y	0.1304	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	3	Y	0.0019	dB	-0.5000	0.5000	PASS
Gain Accuracy	3	Z	0.1387	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	3	Z	-0.0083	dB	-0.5000	0.5000	PASS
Gain Accuracy	4	X	0.1300	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	4	X	0.0020	dB	-0.5000	0.5000	PASS
Gain Accuracy	4	Y	0.1183	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	4	Y	0.0031	dB	-0.5000	0.5000	PASS
Gain Accuracy	4	Z	0.1241	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	4	Z	0.0065	dB	-0.5000	0.5000	PASS
Gain Accuracy	5	X	0.1088	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	5	X	0.0070	dB	-0.5000	0.5000	PASS
Gain Accuracy	5	Y	0.1195	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	5	Y	0.0017	dB	-0.5000	0.5000	PASS
Gain Accuracy	5	Z	0.1131	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	5	Z	0.0071	dB	-0.5000	0.5000	PASS
Gain Accuracy	6	X	0.0998	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	6	X	0.0098	dB	-0.5000	0.5000	PASS
Gain Accuracy	6	Y	0.1008	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	6	Y	0.0038	dB	-0.5000	0.5000	PASS
Gain Accuracy	6	Z	0.1045	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	6	Z	0.0069	dB	-0.5000	0.5000	PASS
Gain Accuracy	7	X	0.0963	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	7	X	0.0077	dB	-0.5000	0.5000	PASS
Gain Accuracy	7	Y	0.1094	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	7	Y	0.0056	dB	-0.5000	0.5000	PASS
Gain Accuracy	7	Z	0.1190	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	7	Z	0.0044	dB	-0.5000	0.5000	PASS
Gain Accuracy	8	X	0.1033	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	8	X	0.0044	dB	-0.5000	0.5000	PASS
Gain Accuracy	8	Y	0.1112	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	8	Y	0.0051	dB	-0.5000	0.5000	PASS
Gain Accuracy	8	Z	0.1033	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	8	Z	0.0032	dB	-0.5000	0.5000	PASS

AMPLIFIER GAIN 32 TEST

2006/05/14 17:07:46

Shot No: 65

Station Depth: 1860.02 m

Evaluation Item	Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result
Gain Accuracy	1	X	0.2807	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	1	X	0.0010	dB	-0.5000	0.5000	PASS
Gain Accuracy	1	Y	0.2346	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	1	Y	0.0072	dB	-0.5000	0.5000	PASS
Gain Accuracy	1	Z	0.2873	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	1	Z	0.0015	dB	-0.5000	0.5000	PASS
Gain Accuracy	2	X	0.1180	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	2	X	-0.0004	dB	-0.5000	0.5000	PASS
Gain Accuracy	2	Y	0.1086	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	2	Y	0.0101	dB	-0.5000	0.5000	PASS
Gain Accuracy	2	Z	0.1242	dB	-0.5000	0.5000	PASS

Gain Step Accuracy	2	Z	-0.0022	dB	-0.5000	0.5000	PASS
Gain Accuracy	3	X	0.1218	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	3	X	-0.0000	dB	-0.5000	0.5000	PASS
Gain Accuracy	3	Y	0.1353	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	3	Y	-0.0029	dB	-0.5000	0.5000	PASS
Gain Accuracy	3	Z	0.1406	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	3	Z	-0.0102	dB	-0.5000	0.5000	PASS
Gain Accuracy	4	X	0.1313	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	4	X	0.0007	dB	-0.5000	0.5000	PASS
Gain Accuracy	4	Y	0.1185	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	4	Y	0.0030	dB	-0.5000	0.5000	PASS
Gain Accuracy	4	Z	0.1271	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	4	Z	0.0035	dB	-0.5000	0.5000	PASS
Gain Accuracy	5	X	0.1101	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	5	X	0.0058	dB	-0.5000	0.5000	PASS
Gain Accuracy	5	Y	0.1243	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	5	Y	-0.0031	dB	-0.5000	0.5000	PASS
Gain Accuracy	5	Z	0.1160	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	5	Z	0.0042	dB	-0.5000	0.5000	PASS
Gain Accuracy	6	X	0.1046	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	6	X	0.0051	dB	-0.5000	0.5000	PASS
Gain Accuracy	6	Y	0.1005	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	6	Y	0.0040	dB	-0.5000	0.5000	PASS
Gain Accuracy	6	Z	0.1087	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	6	Z	0.0027	dB	-0.5000	0.5000	PASS
Gain Accuracy	7	X	0.0984	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	7	X	0.0056	dB	-0.5000	0.5000	PASS
Gain Accuracy	7	Y	0.1125	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	7	Y	0.0025	dB	-0.5000	0.5000	PASS
Gain Accuracy	7	Z	0.1207	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	7	Z	0.0028	dB	-0.5000	0.5000	PASS
Gain Accuracy	8	X	0.1111	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	8	X	-0.0034	dB	-0.5000	0.5000	PASS
Gain Accuracy	8	Y	0.1140	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	8	Y	0.0022	dB	-0.5000	0.5000	PASS
Gain Accuracy	8	Z	0.0955	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	8	Z	0.0111	dB	-0.5000	0.5000	PASS

CROSS TALK X TEST

2006/05/14 17:08:18

Shot No: 66

Station Depth: 1860.02 m

Evaluation Item	Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result
Cross Talk X-Y	1	-	-98.3756	dB	-	-90.0000	PASS
Cross Talk X-Z	1	-	-97.4231	dB	-	-90.0000	PASS
Cross Talk X-Y	2	-	-99.1369	dB	-	-90.0000	PASS
Cross Talk X-Z	2	-	-98.1289	dB	-	-90.0000	PASS
Cross Talk X-Y	3	-	-99.0997	dB	-	-90.0000	PASS
Cross Talk X-Z	3	-	-97.8580	dB	-	-90.0000	PASS
Cross Talk X-Y	4	-	-99.4461	dB	-	-90.0000	PASS
Cross Talk X-Z	4	-	-97.6806	dB	-	-90.0000	PASS
Cross Talk X-Y	5	-	-99.2428	dB	-	-90.0000	PASS
Cross Talk X-Z	5	-	-98.3471	dB	-	-90.0000	PASS
Cross Talk X-Y	6	-	-99.5293	dB	-	-90.0000	PASS
Cross Talk X-Z	6	-	-98.3491	dB	-	-90.0000	PASS
Cross Talk X-Y	7	-	-99.1207	dB	-	-90.0000	PASS
Cross Talk X-Z	7	-	-98.1316	dB	-	-90.0000	PASS
Cross Talk X-Y	8	-	-99.3813	dB	-	-90.0000	PASS
Cross Talk X-Z	8	-	-98.2237	dB	-	-90.0000	PASS

CROSS TALK Y TEST

2006/05/14 17:08:55

Shot No: 67

Station Depth: 1860.02 m

Evaluation Item	Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result

Cross Talk Y-Z	1	-	-96.6228	dB	-	-90.0000	PASS
Cross Talk Y-X	1	-	-96.7150	dB	-	-90.0000	PASS
Cross Talk Y-Z	2	-	-97.6971	dB	-	-90.0000	PASS
Cross Talk Y-X	2	-	-98.7241	dB	-	-90.0000	PASS
Cross Talk Y-Z	3	-	-97.2161	dB	-	-90.0000	PASS
Cross Talk Y-X	3	-	-98.8510	dB	-	-90.0000	PASS
Cross Talk Y-Z	4	-	-97.0039	dB	-	-90.0000	PASS
Cross Talk Y-X	4	-	-99.1421	dB	-	-90.0000	PASS
Cross Talk Y-Z	5	-	-97.7641	dB	-	-90.0000	PASS
Cross Talk Y-X	5	-	-99.1694	dB	-	-90.0000	PASS
Cross Talk Y-Z	6	-	-98.1216	dB	-	-90.0000	PASS
Cross Talk Y-X	6	-	-99.0970	dB	-	-90.0000	PASS
Cross Talk Y-Z	7	-	-97.7307	dB	-	-90.0000	PASS
Cross Talk Y-X	7	-	-99.0535	dB	-	-90.0000	PASS
Cross Talk Y-Z	8	-	-97.8292	dB	-	-90.0000	PASS
Cross Talk Y-X	8	-	-99.0598	dB	-	-90.0000	PASS

CROSS TALK Z TEST

2006/05/14 17:09:31

Shot No: 68

Station Depth: 1860.02 m

Evaluation Item	Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result
Cross Talk Z-X	1	-	-95.0324	dB	-	-90.0000	PASS
Cross Talk Z-Y	1	-	-95.3624	dB	-	-90.0000	PASS
Cross Talk Z-X	2	-	-96.6521	dB	-	-90.0000	PASS
Cross Talk Z-Y	2	-	-96.4573	dB	-	-90.0000	PASS
Cross Talk Z-X	3	-	-96.4378	dB	-	-90.0000	PASS
Cross Talk Z-Y	3	-	-96.0821	dB	-	-90.0000	PASS
Cross Talk Z-X	4	-	-96.2474	dB	-	-90.0000	PASS
Cross Talk Z-Y	4	-	-95.6734	dB	-	-90.0000	PASS
Cross Talk Z-X	5	-	-97.0540	dB	-	-90.0000	PASS
Cross Talk Z-Y	5	-	-96.7747	dB	-	-90.0000	PASS
Cross Talk Z-X	6	-	-96.6420	dB	-	-90.0000	PASS
Cross Talk Z-Y	6	-	-96.2456	dB	-	-90.0000	PASS
Cross Talk Z-X	7	-	-96.5543	dB	-	-90.0000	PASS
Cross Talk Z-Y	7	-	-96.3827	dB	-	-90.0000	PASS
Cross Talk Z-X	8	-	-97.1354	dB	-	-90.0000	PASS
Cross Talk Z-Y	8	-	-97.1803	dB	-	-90.0000	PASS

IMPULSE RESPONSE TEST

2006/05/14 17:10:07

Shot No: 69

Station Depth: 1860.02 m

Evaluation Item	Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result
Amplitude (0.3Hz)	1	X	-1.4421	dB	-5.0000	-	PASS
Amplitude (400Hz)	1	X	-4.6097	dB	-5.0000	-	PASS
Impulse Amplitude	1	X	462.0879	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	1	X	0.0000	degree	-	-	-
Amplitude (0.3Hz)	1	Y	-1.7120	dB	-5.0000	-	PASS
Amplitude (400Hz)	1	Y	-4.6119	dB	-5.0000	-	PASS
Impulse Amplitude	1	Y	459.4379	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	1	Y	2.7859	degree	-	-	-
Amplitude (0.3Hz)	1	Z	-1.4586	dB	-5.0000	-	PASS
Amplitude (400Hz)	1	Z	-4.6115	dB	-5.0000	-	PASS
Impulse Amplitude	1	Z	461.7043	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	1	Z	0.4882	degree	-	-	-
Amplitude (0.3Hz)	2	X	-1.6684	dB	-5.0000	-	PASS
Amplitude (400Hz)	2	X	-3.5782	dB	-5.0000	-	PASS
Impulse Amplitude	2	X	571.9337	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	2	X	1.3298	degree	-	-	-
Amplitude (0.3Hz)	2	Y	-1.5333	dB	-5.0000	-	PASS
Amplitude (400Hz)	2	Y	-3.5795	dB	-5.0000	-	PASS
Impulse Amplitude	2	Y	571.9719	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	2	Y	-0.0241	degree	-	-	-
Amplitude (0.3Hz)	2	Z	-1.6400	dB	-5.0000	-	PASS

Amplitude (400Hz)	2	Z	-3.5797	dB	-5.0000	-	PASS
Impulse Amplitude	2	Z	572.2816	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	2	Z	0.9882	degree	-	-	-
Amplitude (0.3Hz)	3	X	-1.4715	dB	-5.0000	-	PASS
Amplitude (400Hz)	3	X	-3.5782	dB	-5.0000	-	PASS
Impulse Amplitude	3	X	572.2733	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	3	X	-0.1128	degree	-	-	-
Amplitude (0.3Hz)	3	Y	-1.4752	dB	-5.0000	-	PASS
Amplitude (400Hz)	3	Y	-3.5760	dB	-5.0000	-	PASS
Impulse Amplitude	3	Y	573.1260	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	3	Y	-0.2970	degree	-	-	-
Amplitude (0.3Hz)	3	Z	-1.5190	dB	-5.0000	-	PASS
Amplitude (400Hz)	3	Z	-3.5732	dB	-5.0000	-	PASS
Impulse Amplitude	3	Z	573.1520	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	3	Z	0.3676	degree	-	-	-
Amplitude (0.3Hz)	4	X	-1.6724	dB	-5.0000	-	PASS
Amplitude (400Hz)	4	X	-3.5755	dB	-5.0000	-	PASS
Impulse Amplitude	4	X	573.0891	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	4	X	1.8293	degree	-	-	-
Amplitude (0.3Hz)	4	Y	-1.5560	dB	-5.0000	-	PASS
Amplitude (400Hz)	4	Y	-3.5757	dB	-5.0000	-	PASS
Impulse Amplitude	4	Y	572.0437	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	4	Y	0.6957	degree	-	-	-
Amplitude (0.3Hz)	4	Z	-1.5417	dB	-5.0000	-	PASS
Amplitude (400Hz)	4	Z	-3.5747	dB	-5.0000	-	PASS
Impulse Amplitude	4	Z	572.9830	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	4	Z	0.4463	degree	-	-	-
Amplitude (0.3Hz)	5	X	-1.5431	dB	-5.0000	-	PASS
Amplitude (400Hz)	5	X	-3.5771	dB	-5.0000	-	PASS
Impulse Amplitude	5	X	571.3914	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	5	X	1.0863	degree	-	-	-
Amplitude (0.3Hz)	5	Y	-1.4657	dB	-5.0000	-	PASS
Amplitude (400Hz)	5	Y	-3.5794	dB	-5.0000	-	PASS
Impulse Amplitude	5	Y	571.8242	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	5	Y	0.2058	degree	-	-	-
Amplitude (0.3Hz)	5	Z	-1.6272	dB	-5.0000	-	PASS
Amplitude (400Hz)	5	Z	-3.5758	dB	-5.0000	-	PASS
Impulse Amplitude	5	Z	571.8292	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	5	Z	1.8272	degree	-	-	-
Amplitude (0.3Hz)	6	X	-1.6216	dB	-5.0000	-	PASS
Amplitude (400Hz)	6	X	-3.5839	dB	-5.0000	-	PASS
Impulse Amplitude	6	X	570.5209	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	6	X	1.2276	degree	-	-	-
Amplitude (0.3Hz)	6	Y	-1.5093	dB	-5.0000	-	PASS
Amplitude (400Hz)	6	Y	-3.5804	dB	-5.0000	-	PASS
Impulse Amplitude	6	Y	570.6251	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	6	Y	0.0589	degree	-	-	-
Amplitude (0.3Hz)	6	Z	-1.5840	dB	-5.0000	-	PASS
Amplitude (400Hz)	6	Z	-3.5809	dB	-5.0000	-	PASS
Impulse Amplitude	6	Z	571.1763	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	6	Z	0.7390	degree	-	-	-
Amplitude (0.3Hz)	7	X	-1.5801	dB	-5.0000	-	PASS
Amplitude (400Hz)	7	X	-3.5745	dB	-5.0000	-	PASS
Impulse Amplitude	7	X	570.4018	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	7	X	1.4111	degree	-	-	-
Amplitude (0.3Hz)	7	Y	-1.5716	dB	-5.0000	-	PASS
Amplitude (400Hz)	7	Y	-3.5776	dB	-5.0000	-	PASS
Impulse Amplitude	7	Y	571.4735	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	7	Y	1.3124	degree	-	-	-
Amplitude (0.3Hz)	7	Z	-1.5009	dB	-5.0000	-	PASS
Amplitude (400Hz)	7	Z	-3.5741	dB	-5.0000	-	PASS
Impulse Amplitude	7	Z	572.0169	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	7	Z	0.5826	degree	-	-	-

Amplitude (0.3Hz)	8	X	-1.5765	dB	-5.0000	-	PASS
Amplitude (400Hz)	8	X	-3.5774	dB	-5.0000	-	PASS
Impulse Amplitude	8	X	570.3755	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	8	X	1.4174	degree	-	-	-
Amplitude (0.3Hz)	8	Y	-1.6145	dB	-5.0000	-	PASS
Amplitude (400Hz)	8	Y	-3.5767	dB	-5.0000	-	PASS
Impulse Amplitude	8	Y	571.5567	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	8	Y	1.3438	degree	-	-	-
Amplitude (0.3Hz)	8	Z	-1.6711	dB	-5.0000	-	PASS
Amplitude (400Hz)	8	Z	-3.5787	dB	-5.0000	-	PASS
Impulse Amplitude	8	Z	570.5692	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	8	Z	2.1743	degree	-	-	-