

Survey: Zero Offset VSP
Company: International Ocean Discovery Program
Well: Expedition 399, Site U1601C
Field: Building Blocks of Life, Atlantis Massif
Country:
Run: Run 5 VSI
Date: 28-May-2023

Recorded by: Kirby Garrett

Witnessed by: Bill Rhinehart

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Introduction

<General introduction: timeline overview, key comments>

Survey Results:

<Highlight of each survey acquired during this job...>

Recommendations and Conclusions:

Well Information

Company	International Ocean Discovery Program
Well	Expedition 399, Site U1601C
Field	Building Blocks of Life, Atlantis Massif
Country	
State	JOIDES Resolution
Logging Date	28-May-2023
Run Number	
Service Order	
Well Head (Latitude)	30.132360 degrees
Well Head (Longitude)	-40.120120 degrees
Well Head (X Coordinate)	-40.12 m
Well Head (Y Coordinate)	30.13 m
Total Depth - Driller	2043 m
Total Depth - Logger	1932 m
Maximum Hole Deviation	9.5 deg
Azimuth of Maximum Deviation	0 deg
Program Version	
Bit Size	9.88 in
Recorded by	Kirby Garrett
Witnessed by	Bill Rhinehart

Well Deviation Survey

Well Deviation Survey Type	Deviated
Bottom of The Well Deviation Survey (MD)	1928 m

Elevation Information

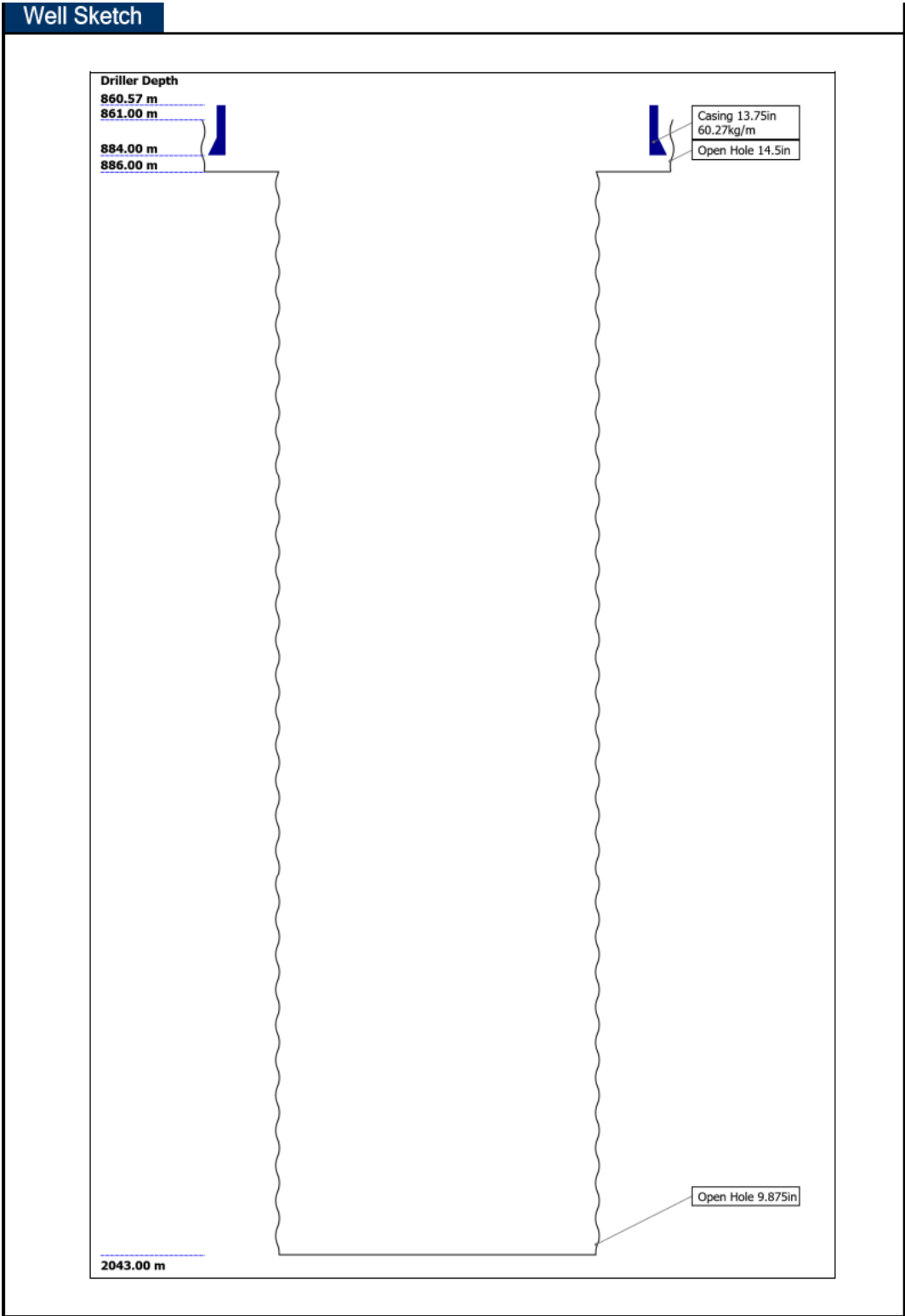
Permanent Datum	MSL
Elevation Permanent Datum	0 m
Above Permanent Datum	11.2 m
Drilling Measured From	
Derrik Floor	11.2 m
Ground Level	-861 m
Kelly Bush	0 m
Log Measured From	DF
Elevation Log Zero	11.2 m

Depth Corrected Information

Water Velocity	1500 m/s
Seismic Reference Datum	0 m

Remarks

Well Sketch



Tool Sketch

Remarks and Equipment Summary			
Run 1: Toolstring		Run 1: Remarks	
Equip name LEH-PT LEH-PT	Length 12.11	MP name	Offset
		Tool was run as per tool sketch	
		All logging intervals as per client request	
AH-233	11.17		
EDTC-B-8081 EDTH-B-8226 EDTG-B-79159 EDTC-B-8081	10.79	H	
		Mud Temperature	9.3
		CTEM	7.54
		ACCZ	0.00
		HV	0.00
		Gamma Ray	6.97
		TeStatus	6.62
		HSH 8006	
AH-241	8.81		
VSTT-CA-8034A VSPH-PA VSPC-B-8006 VSCCH-P VSCC-B-8005 AH-244-8043 VSES-PC-8034A VSEA-PA	8.55	H	
		VSI Tool Status	0.00
		TOOL_ZERO	
		Head Tension	
		VSI Sensor Packing	-1.07
		e	
<p>lengths are in m Maximum Outer Diameter = 3.625 in line: Sensor Location, Value: Gating Offset. All measurements are relative to TOOL_ZERO</p>			

Well Information

Well Type	
Rig / Platform Type	
Well Reference Azimuth (Magnetic, True or Grid North)	

Elevation Information

Water Depth	861 m
Water Temperature	
Water Salinity	
Weathered Zone Depth	
Elevation Depth	

Sea Condition

Sea Condition	calm
Wave Height	
High Tide Level	0 m
High Tide Time	
Low Tide Level	0 m
Low Tide Time	

Velocity Information

Weathered Velocity	0 m/s
Elevation Velocity	0 m/s

Downhole Equipment Information

[illegible]

Operation Time Breakdown

SOE

DATE	Time Start	Time Taken Hr : min	OPERATION
			HRS - TOTAL OPERATING TIME

VSP

General Information

Survey Type	Zero Offset VSP
Surface Recording Length	1000 msec
Surface Sampling Rate	1 msec
Downhole Recording Length	5000 msec
Downhole Sampling Rate	1 msec
Top of Survey	931.07 m
Bottom of Survey	1931.2 m
Number of Shots	82
Number of Downhole Traces	82
Number of Downhole Traces used for Processing	82

Stack Summary Listing

Stack number	Well depth[m]	TVD from SRD[m]	TT[ms]	TT(TVD Corrected)[ms]	TWT(TVD Corrected)[ms]	Interval Velocity[m/s]	Average Velocity[m/s]	RMS Velocity[m/s]
13	931.07	61.99	579.27	448.64	897.27	717.60	138.18	138.18
12	1031.03	161.91	606.63	587.88	1175.76	2565.48	275.42	369.51
11	1131.05	261.88	630.61	626.85	1253.69	3548.73	417.77	732.93
10	1231.04	361.83	654.80	655.01	1310.02	4016.72	552.40	1027.43
9	1330.06	460.76	678.00	679.64	1359.28	4421.32	677.95	1265.72
7	1431.06	561.64	700.12	702.46	1404.91	4631.93	799.54	1478.15
6	1531.01	661.38	721.35	723.99	1447.98	4585.06	913.52	1660.75
4	1631.08	761.10	743.09	745.74	1491.48	4840.00	1020.60	1814.04
3	1731.06	860.59	763.77	766.30	1532.59	4923.01	1123.06	1957.27
2	1831.06	959.63	784.31	786.41	1572.82	5390.80	1220.26	2086.35
1	1931.20	1058.45	803.18	804.74	1609.49		1315.27	2217.14

Shot Summary Listing

Measured Depth [m]	Tool Number	Stack Number	Raw Relative Bearing [deg]	Caliper [in]	Anchor Force [N]	Shot Number
1931.2	1	1	0.1	11.1	6549.3	16
1931.2	1	1	0.1	11.1	6542.1	17
1931.2	1	1	0.1	11.1	5977.4	18
1931.2	1	1	0.1	11.1	5858.9	19
1931.2	1	1	0.1	11.1	5899.3	20
1831.1	1	2	-12.7	12.5	6774.6	21
1831.1	1	2	-12.7	12.5	6719.9	22
1831.1	1	2	-12.7	12.5	6645.4	23
1831.1	1	2	-16.6	13.7	7434.6	24
1831.1	1	2	-16.6	13.7	7037.7	25
1831.1	1	2	-16.6	13.7	6899.4	26
1831.1	1	2	-16.6	13.7	6885.1	27
1831.1	1	2	-16.6	13.7	6852.8	28
1731.1	1	3	4.7	11.4	5955.8	29
1731.1	1	3	5.7	11.4	4603.7	30
1731.1	1	3	5.4	11.4	5849.0	31
1731.1	1	3	5.4	11.4	5821.1	32
1731.1	1	3	5.4	11.4	5788.8	33
1731.1	1	3	5.4	11.4	5770.9	34
1731.1	1	3	5.4	11.4	5731.4	35
1731.1	1	3	5.4	11.4	5696.3	36
1631.1	1	4	12.0	11.8	10989.1	37
1631.1	1	4	11.9	11.8	10854.4	38
1631.1	1	4	11.9	11.8	10732.3	39
1631.1	1	4	11.8	11.8	10671.3	40
1631.1	1	4	11.8	11.8	10621.9	41
1631.1	1	4	11.8	11.8	10607.5	42
1631.1	1	4	11.8	11.8	10558.1	43
1630.1	1	5	13.9	11.4	7025.1	44
1630.1	1	5	14.8	11.4	7150.8	45
1630.1	1	5	16.2	11.4	6925.5	46
1630.1	1	5	13.3	11.4	6665.1	47
1630.1	1	5	14.0	11.4	6569.0	48
1531	1	6	4.2	12.1	7411.2	49
1531	1	6	4.2	12.1	7050.3	50
1531	1	6	4.2	12.1	7071.8	51

Measured Depth [m]	Tool Number	Stack Number	Raw Relative Bearing [deg]	Caliper [in]	Anchor Force [N]	Shot Number
1531	1	6	4.2	12.1	6886.9	52
1431.1	1	7	-0.5	11.9	8186.0	53
1431.1	1	7	-0.5	11.9	7910.4	54
1431.1	1	7	-0.5	11.9	7861.0	55
1431.1	1	7	-0.5	11.9	7821.5	56
1431.1	1	7	-0.5	11.9	7764.1	57
1331.1	1	8	-12.3	10.9	6618.4	58
1331.1	1	8	-5.0	10.9	6643.6	59
1331.1	1	8	-3.3	10.9	6272.8	60
1331.1	1	8	-5.0	10.9	6197.3	61
1331.1	1	8	2.4	10.9	5523.1	62
1331.1	1	8	-6.6	10.9	7339.4	63
1330.1	1	9	-3.5	10.9	8335.1	64
1330.1	1	9	-3.2	10.9	8289.3	65
1330.1	1	9	-3.4	10.9	8249.8	66
1330.1	1	9	-3.3	10.9	8239.0	67
1330.1	1	9	-2.5	10.9	8206.7	68
1330.1	1	9	-2.5	10.9	8143.0	69
1231	1	10	-6.7	13.5	8313.5	70
1231	1	10	-8.6	14.5	8430.3	71
1231	1	10	-8.6	14.5	8344.1	72
1231	1	10	-8.6	14.5	8395.2	73
1231	1	10	-8.5	14.5	8212.1	74
1231	1	10	-8.8	14.5	10861.6	75
1231	1	10	-8.8	14.5	10125.4	76
1131	1	11	-9.5	11.0	7975.1	77
1131	1	11	-0.5	11.0	7404.0	78
1131	1	11	-2.2	11.0	7311.6	79
1131	1	11	-3.5	11.0	7360.9	80
1131	1	11	-2.9	11.0	6665.1	81
1131	1	11	-2.8	11.0	7150.8	82
1131	1	11	-5.3	11.0	6943.4	83
1131	1	11	-6.8	11.0	6901.2	84
1031	1	12	-30.9	12.0	7387.9	85
1031	1	12	-30.9	12.0	7431.0	86
1031	1	12	-30.6	12.0	6381.4	88
1031	1	12	-30.7	12.1	6017.8	89

Measured Depth [m]	Tool Number	Stack Number	Raw Relative Bearing [deg]	Caliper [in]	Anchor Force [N]	Shot Number
1031	1	12	-30.6	12.1	5877.7	90
1031	1	12	-30.1	12.1	4681.8	91
1031	1	12	-30.1	12.1	4404.4	92
931.07	1	13	-26.7	13.8	7649.1	93
931.07	1	13	-26.7	13.8	7559.4	94
931.07	1	13	-26.7	13.9	7341.2	95
931.07	1	13	-26.7	13.8	7334.0	96
931.07	1	13	-27.0	13.9	7273.8	97
931.07	1	13	-27.7	13.9	7151.7	98

Source Information Page (for Air Gun)

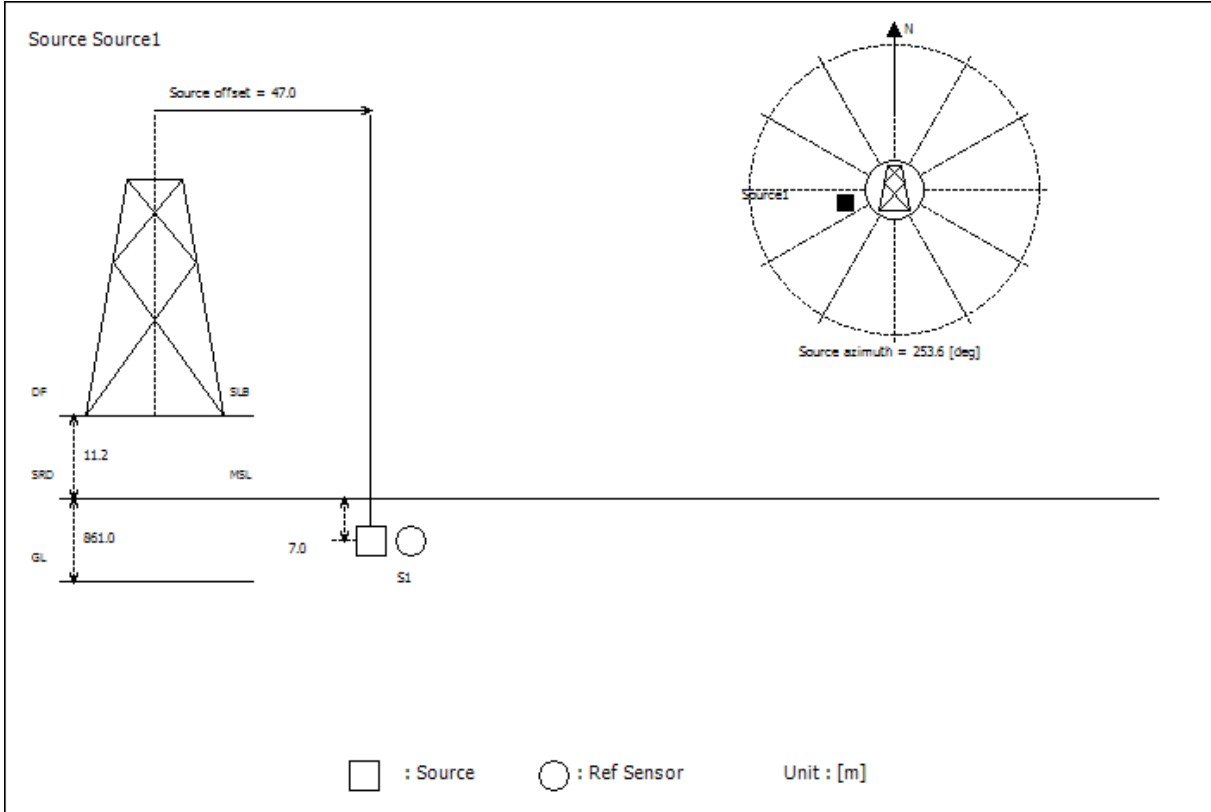
Source Location	
Source Group	
Source Offset	
Source Azimuth	
Source Depth from Surface	
Source Depth from Logging Zero	

Gun Controller Type	
Gun Controller Serial Number	
Gun Type	250cc G-Gun
Gun Serial Number(s)	808
Gun Chamber Volumes	
Gun Pit/Borehole Information	
Compressor Type	
Air Regulator Pressure	

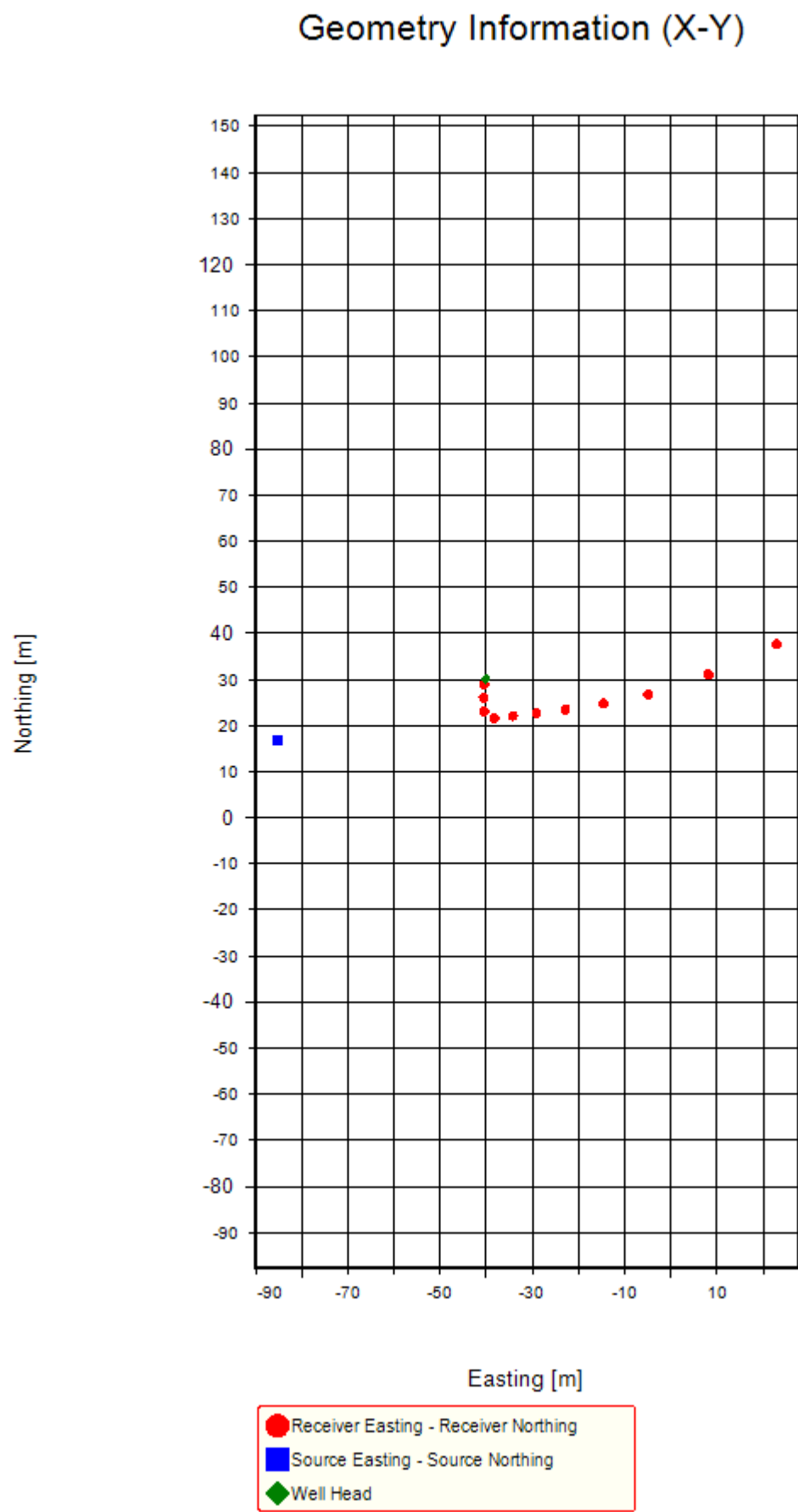
Source Configuration (Air Gun)

Number of Surface reference Sensors	
Surface Recording Length	1000 msec
Surface Sampling Rate	1 msec
Sensor Type (S1)	
Sensor Type (S2)	
Sensor Type (S3)	
Sensor Depth from Surface (S1)	
Sensor Depth from Surface (S2)	
Sensor Depth from Surface (S3)	
Sensor Depth from Logging Zero (S1)	
Sensor Depth from Logging Zero (S2)	
Sensor Depth from Logging Zero (S3)	
Sensor Offset from Source (S1)	
Sensor Offset from Source (S2)	
Sensor Offset from Source (S3)	

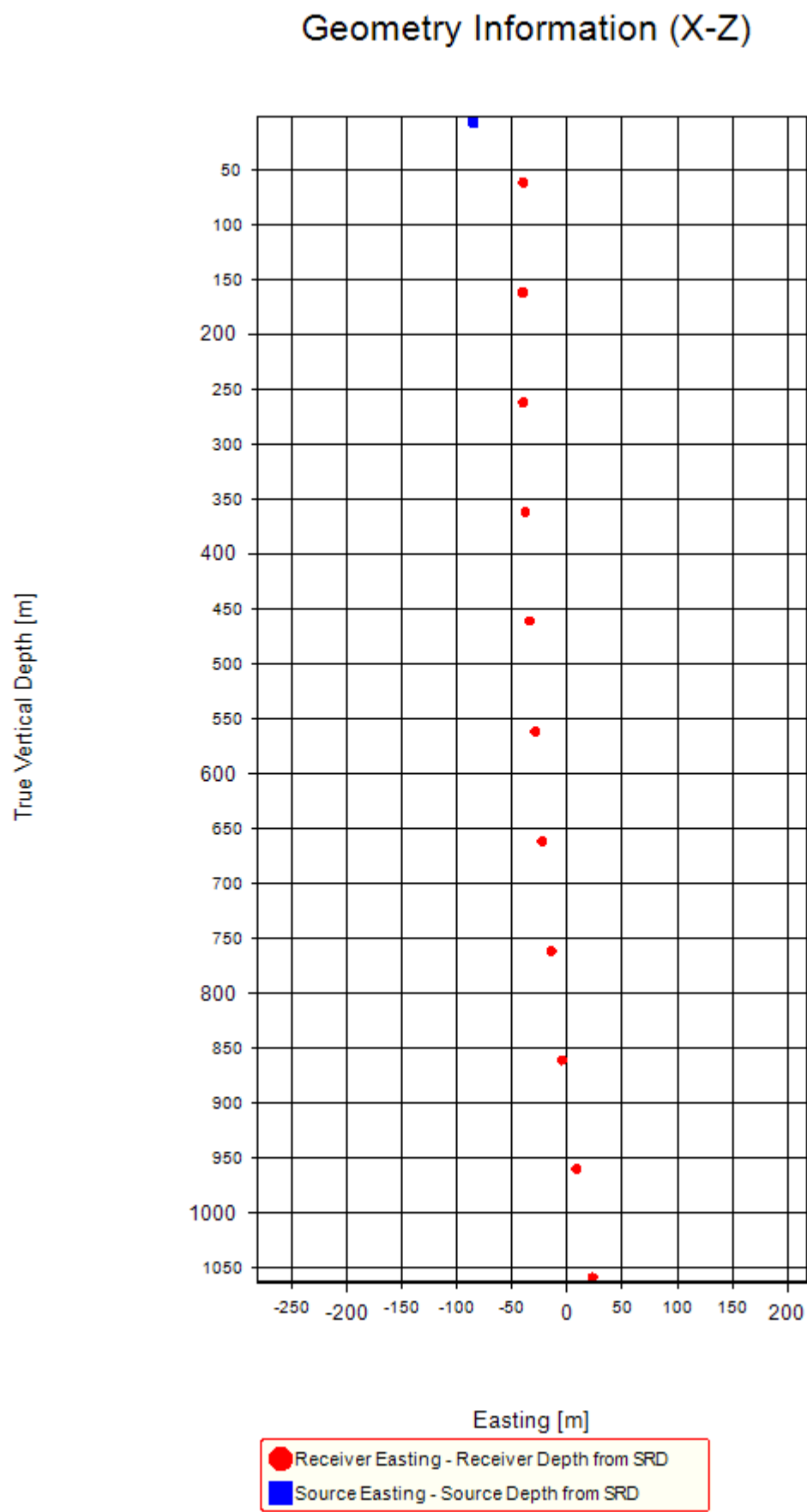
Source Geometry Sketch



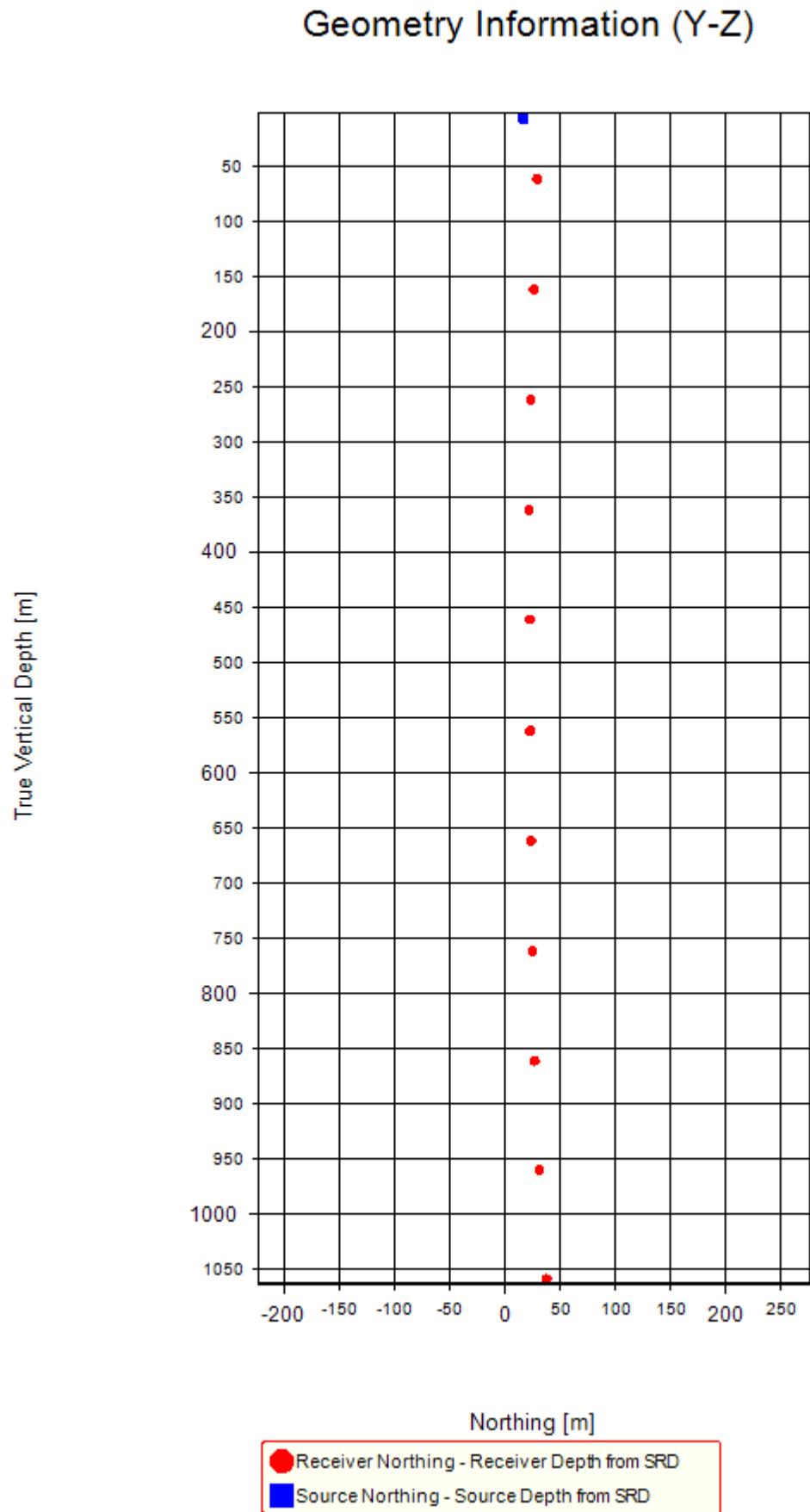
Geometry Information (X-Y)



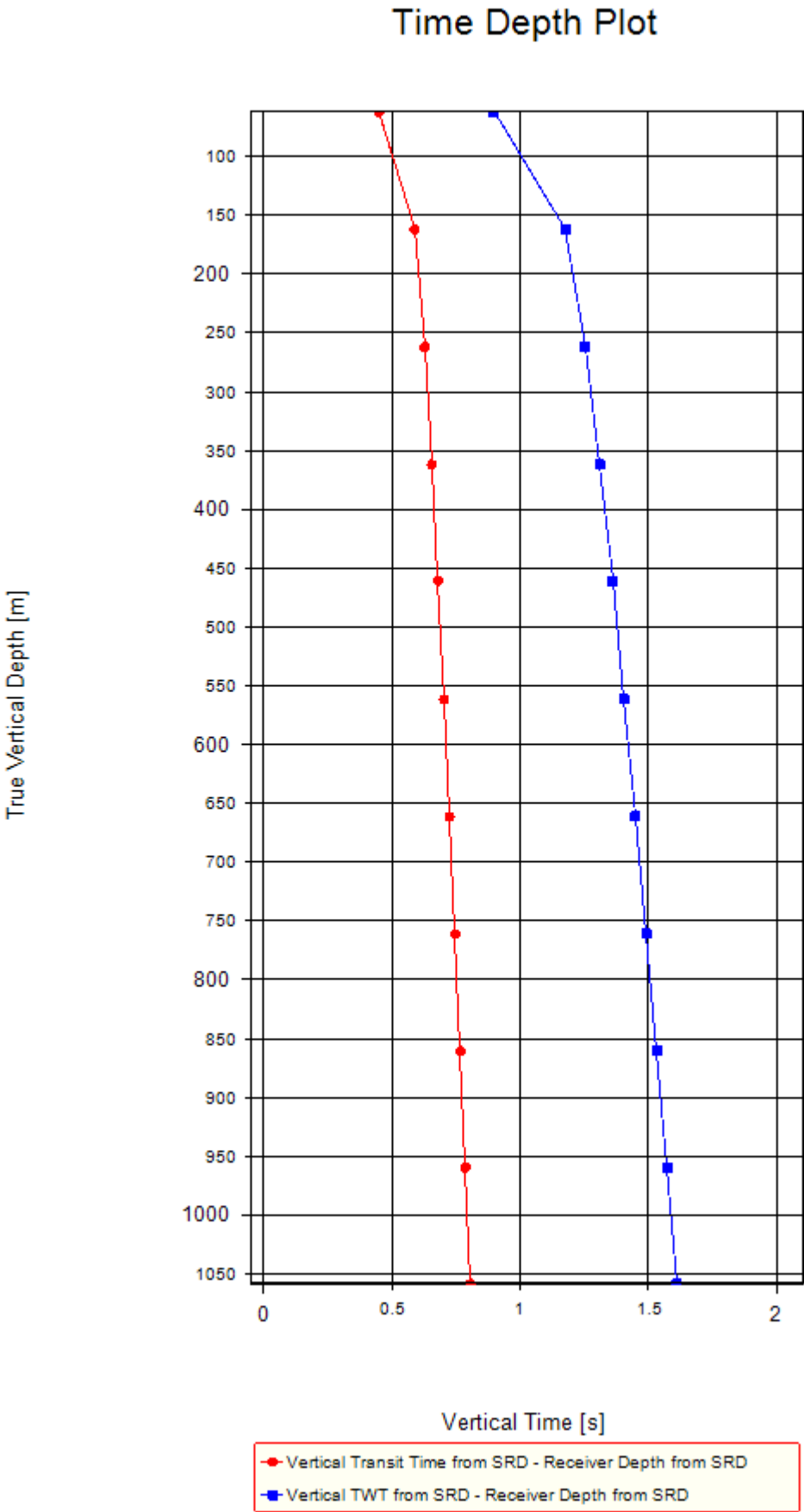
Geometry Information (X-Z)



Geometry Information (Y-Z)

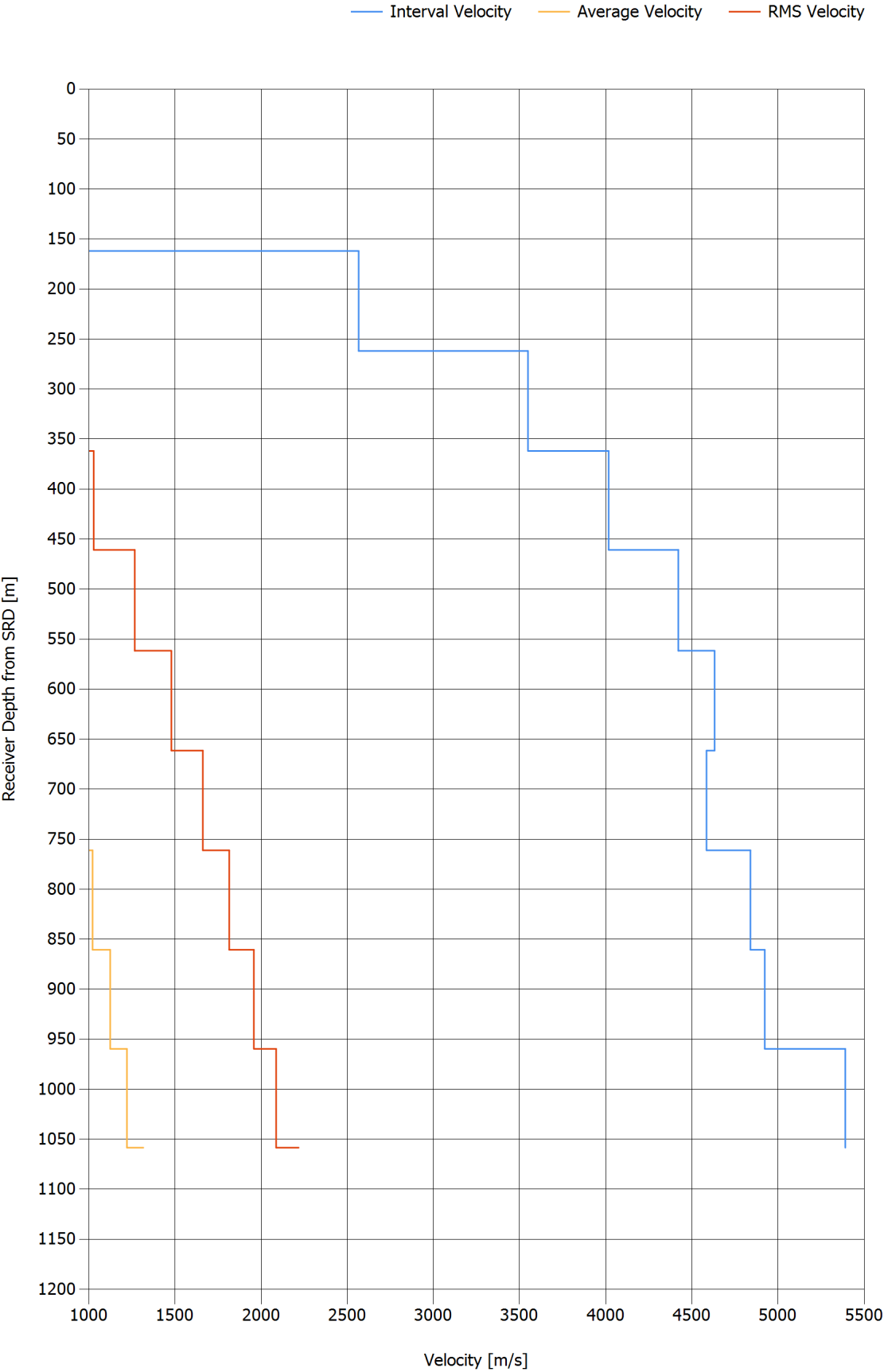


Time Depth Plot

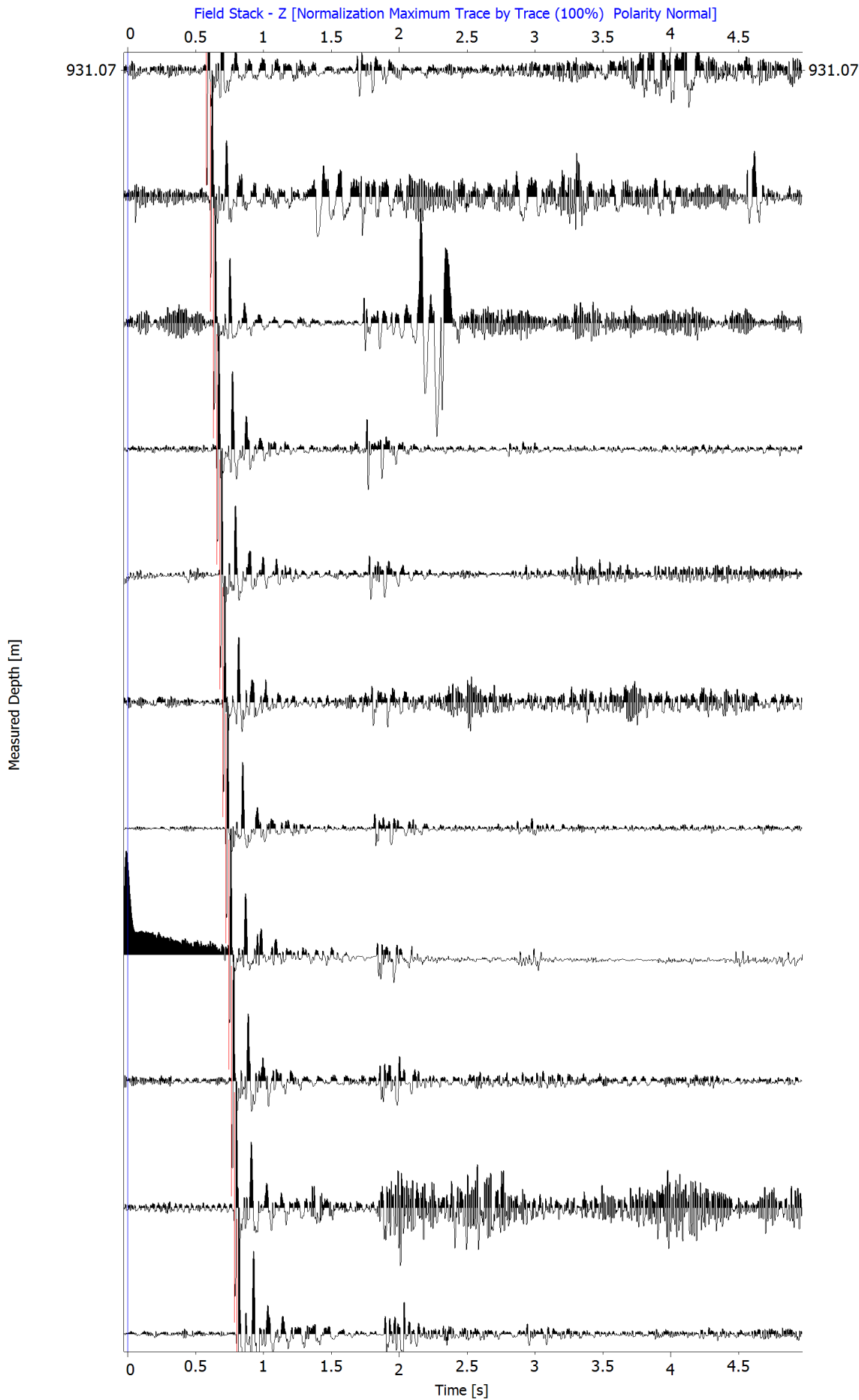


Velocity Plot

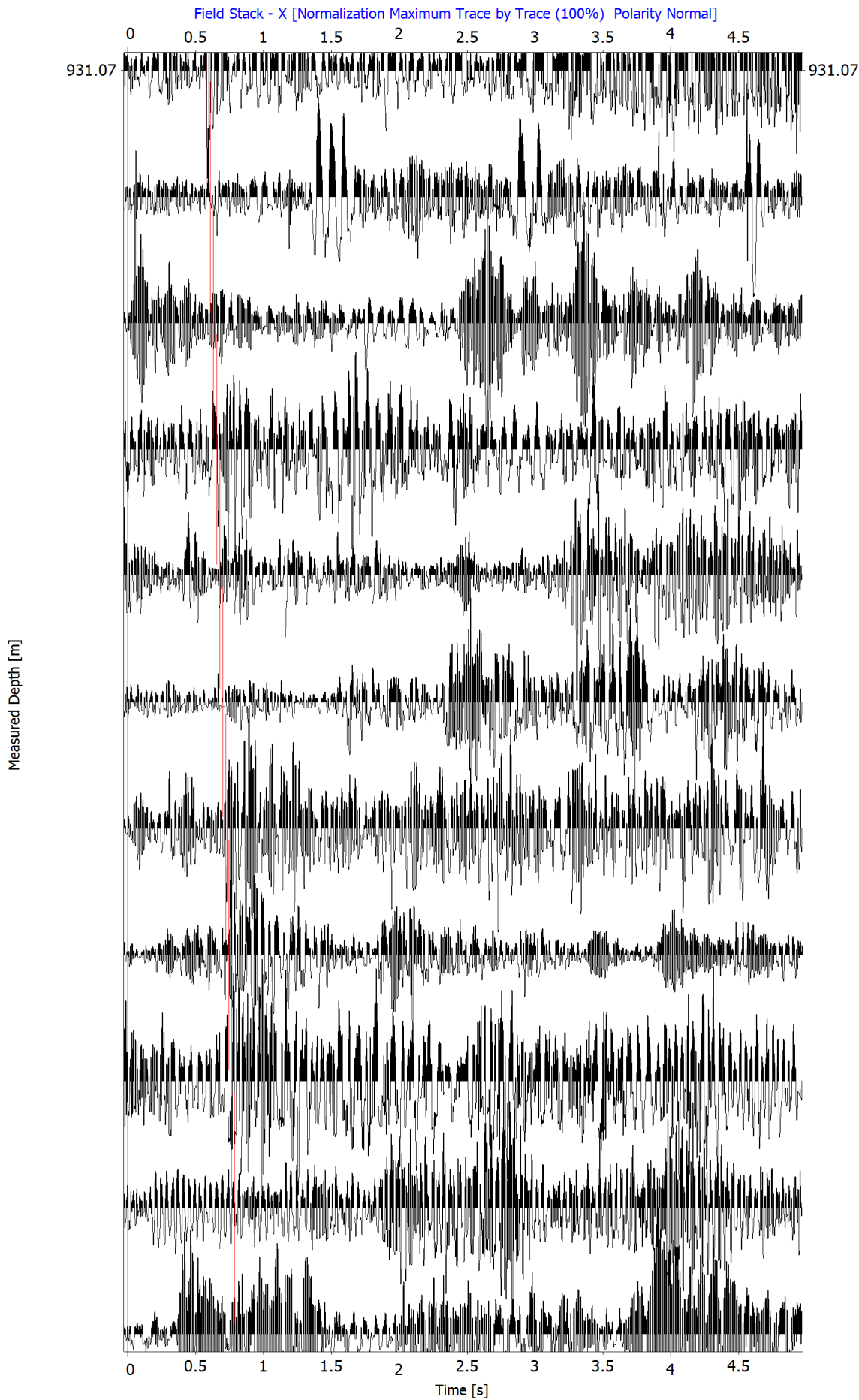
SRD below Measured Depth Zero = 11.20 m



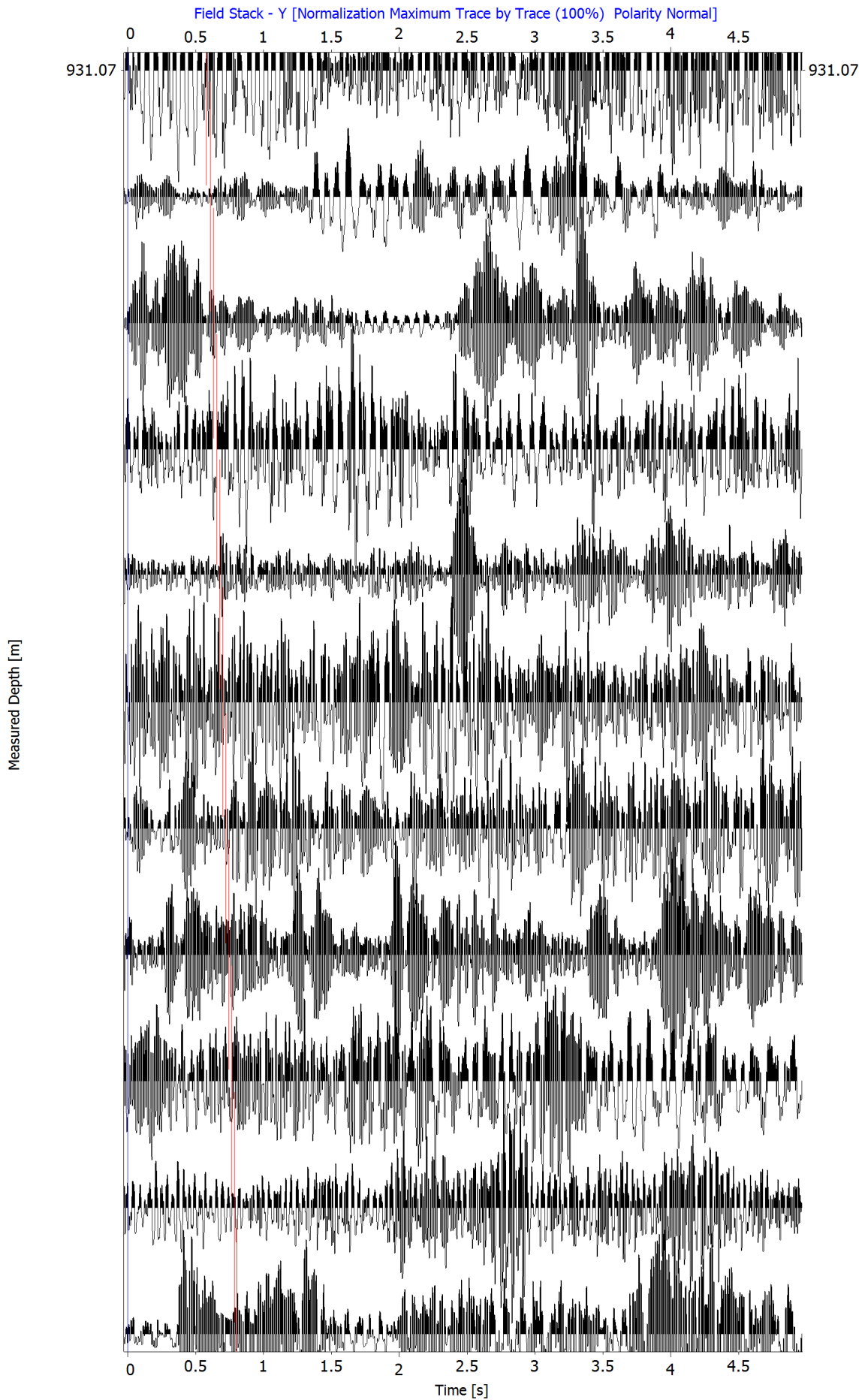
Field Stack (Z)



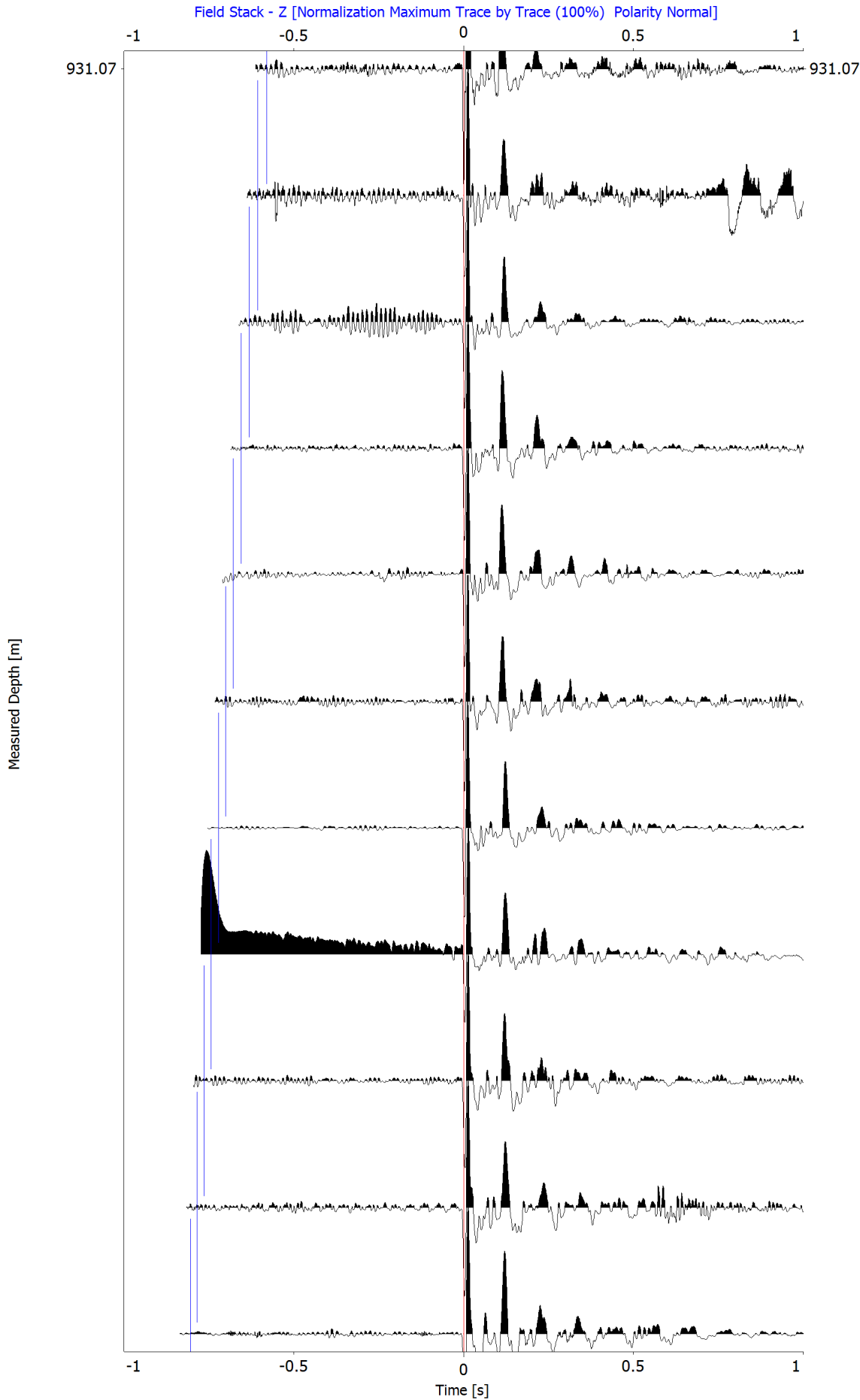
Field Stack (X)



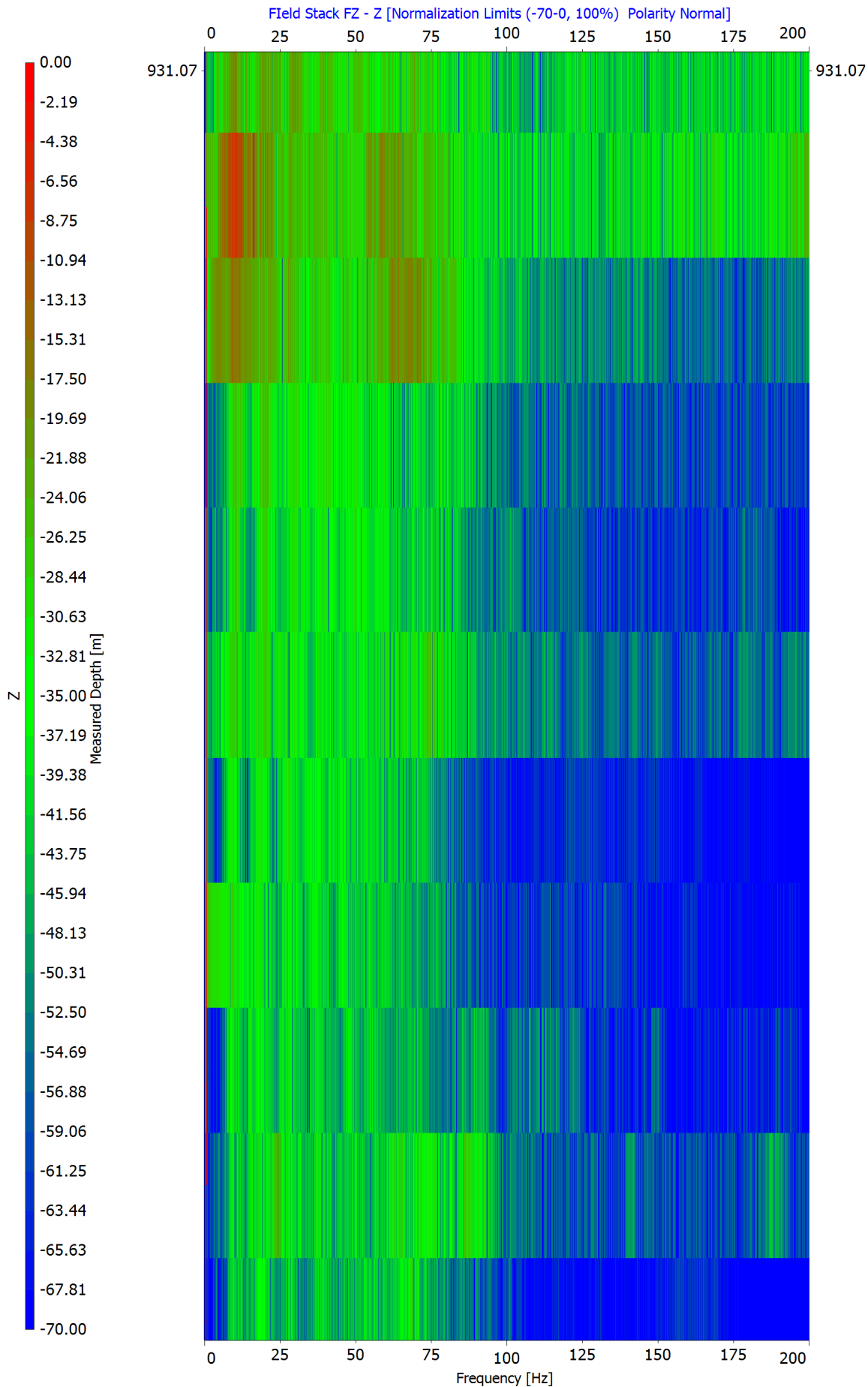
Field Stack (Y)



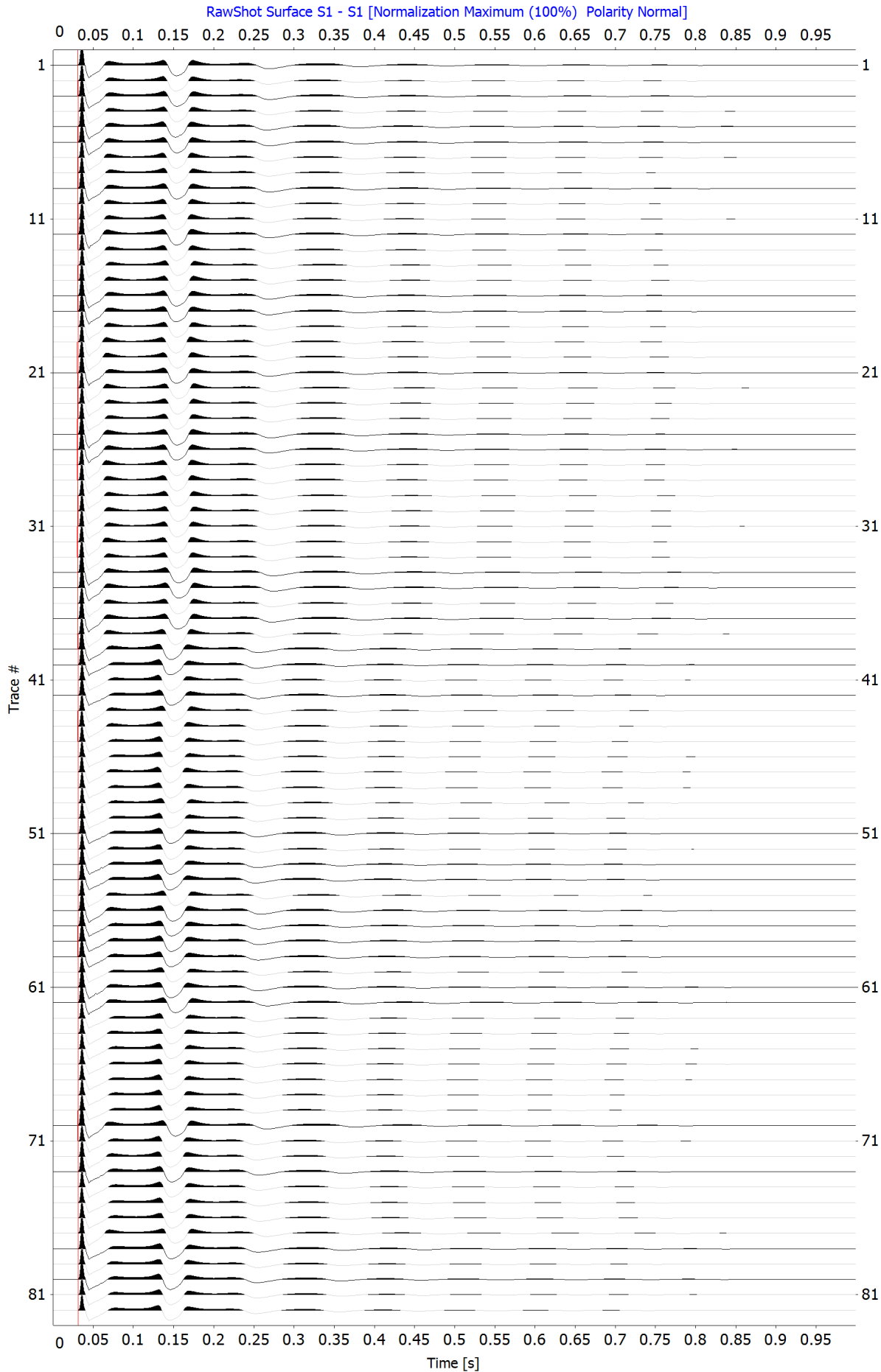
Field Stack (Z) (Magnified)



Field Stack (Z) FZ Spectrum



Source Sensor Signature



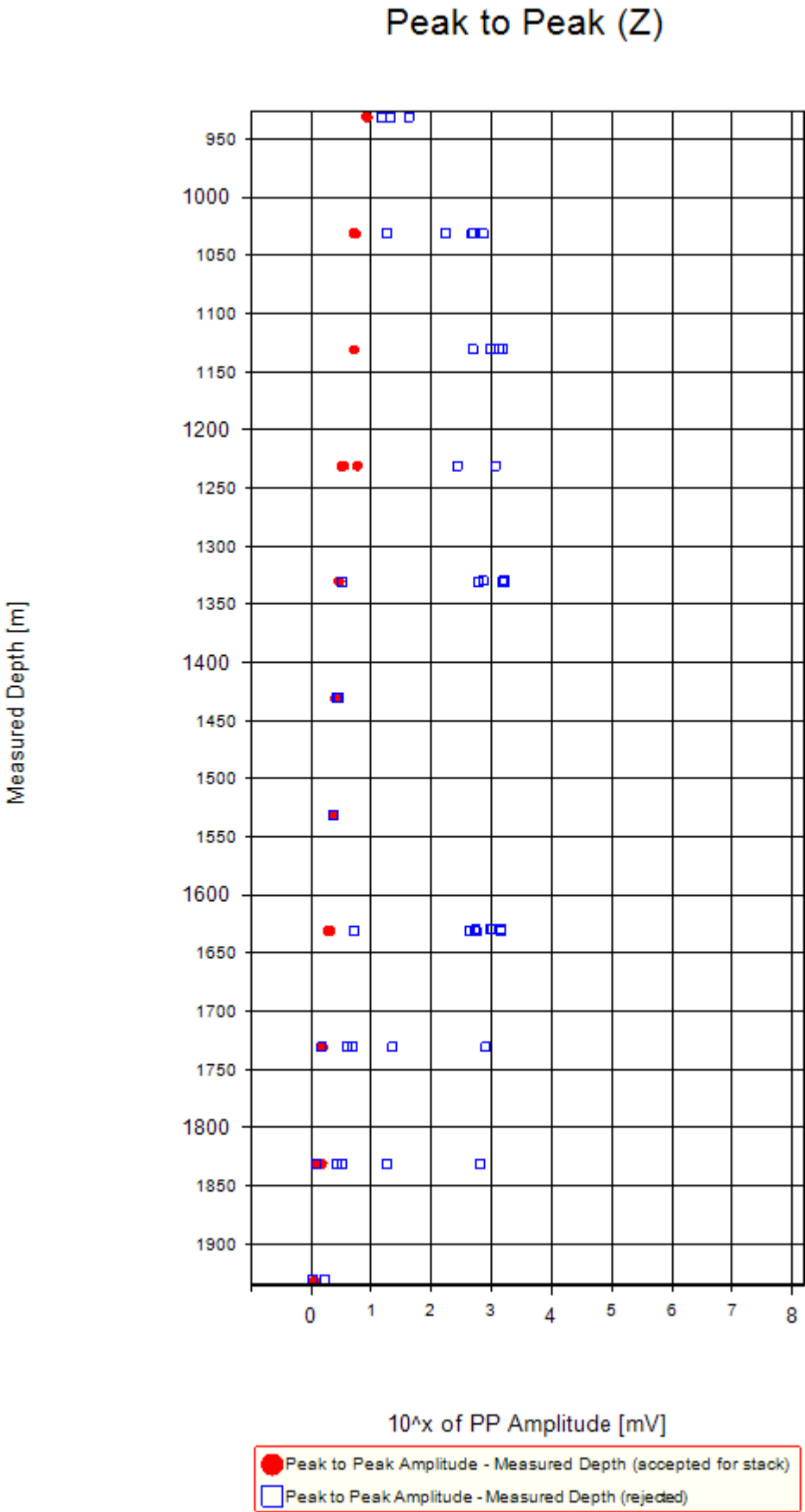
Peak to Peak (X)



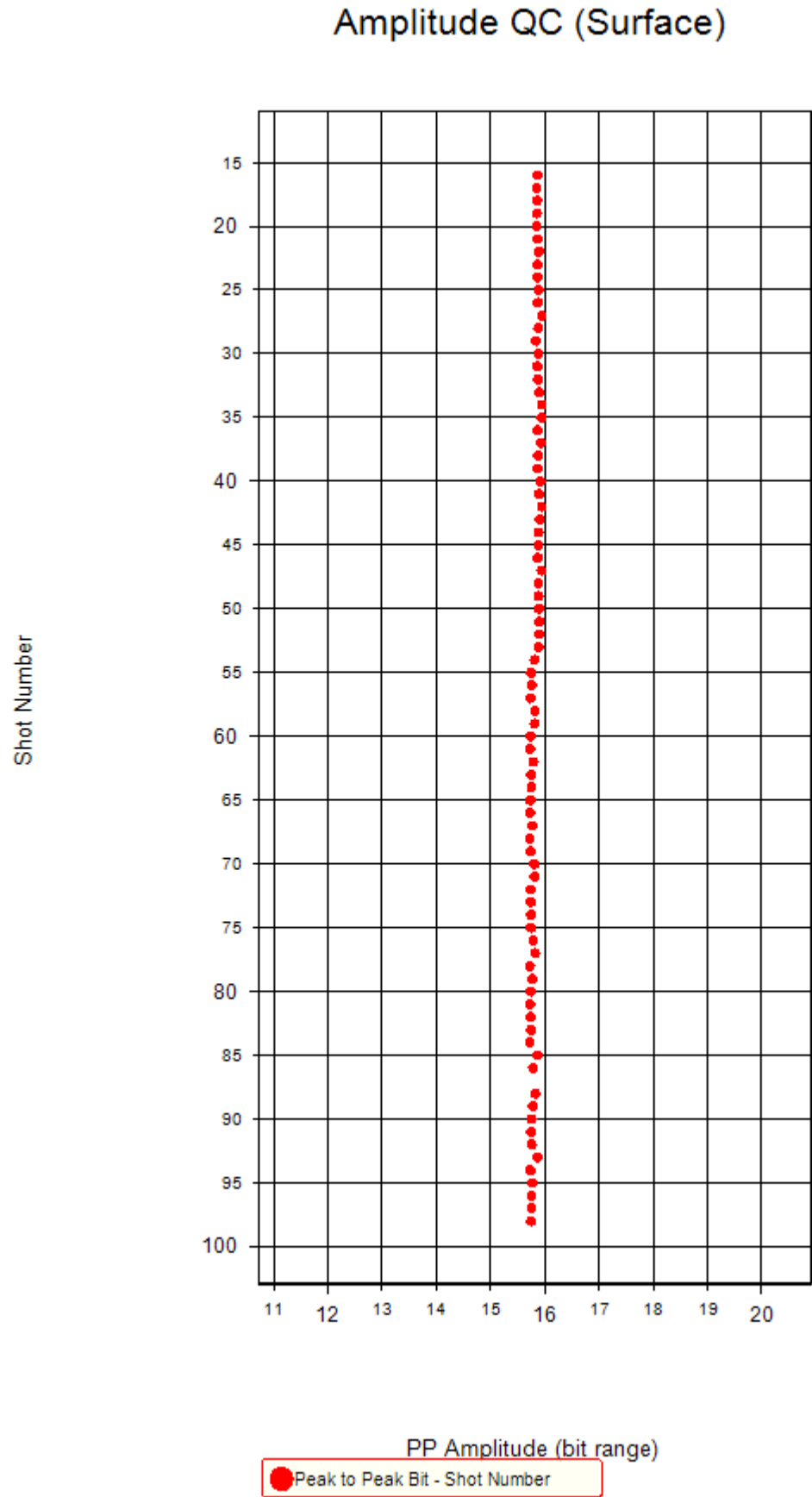
Peak to Peak (Y)



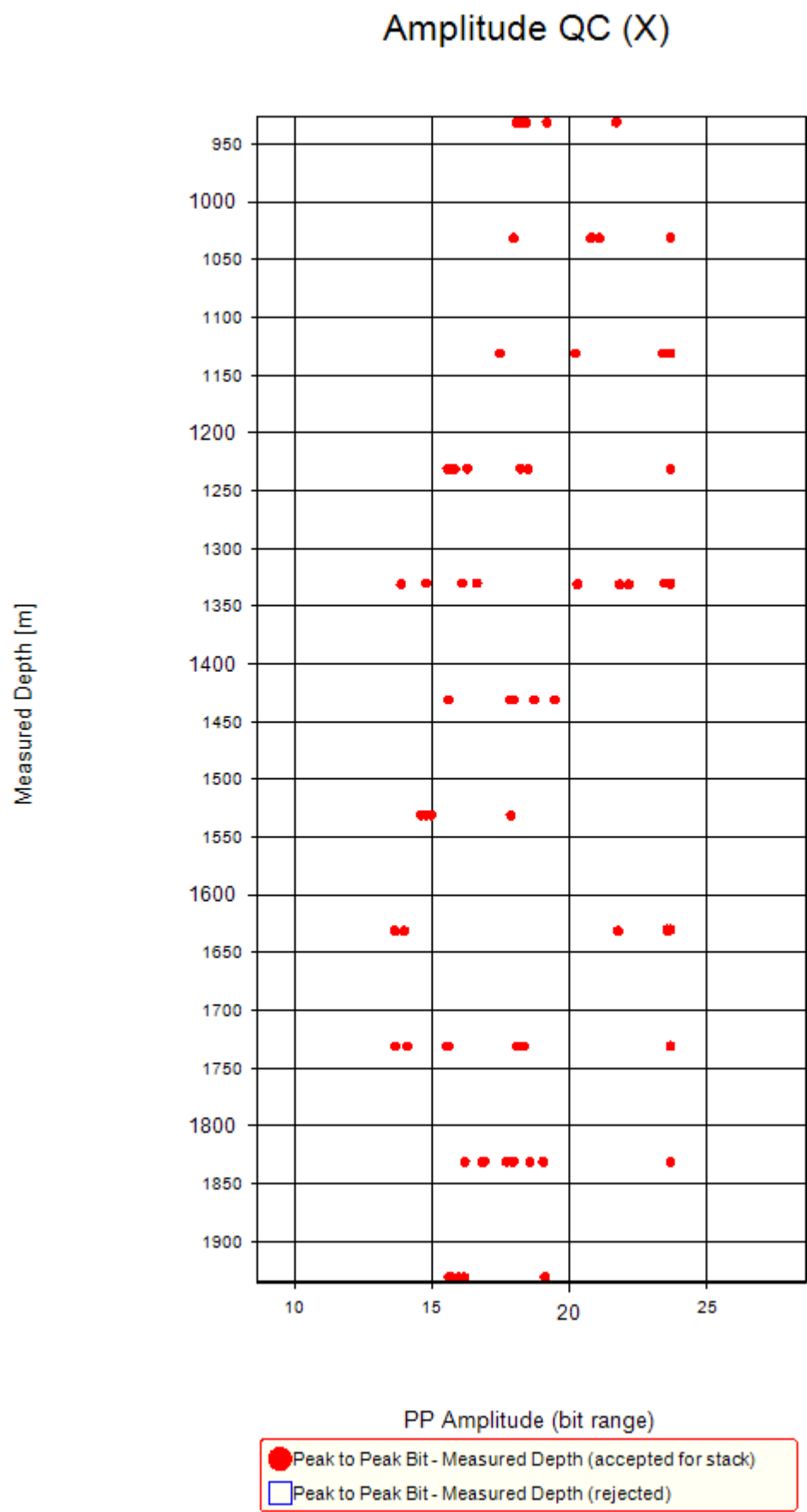
Peak To Peak Plot (Z)



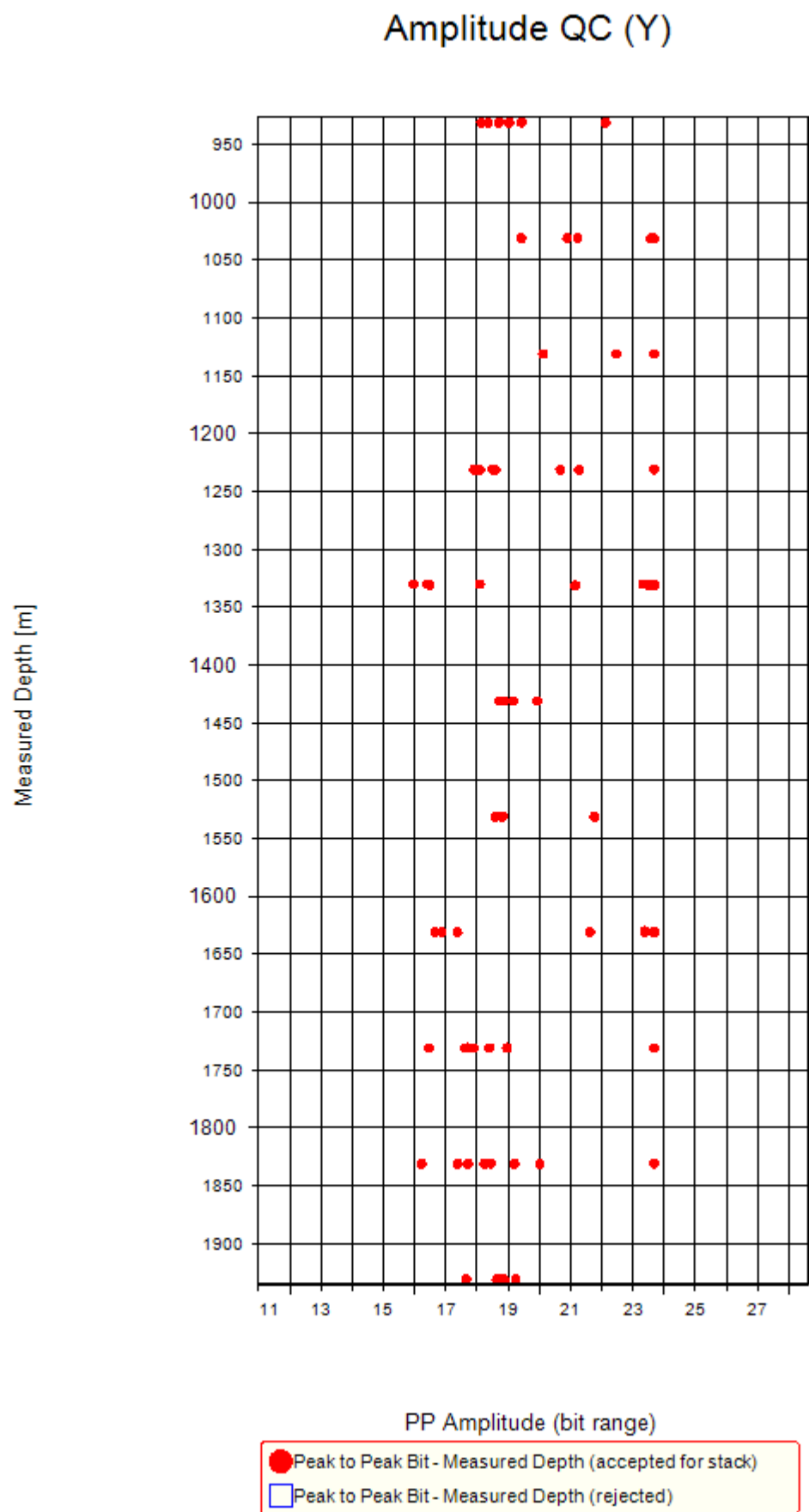
Amplitude QC Plot (Surface)



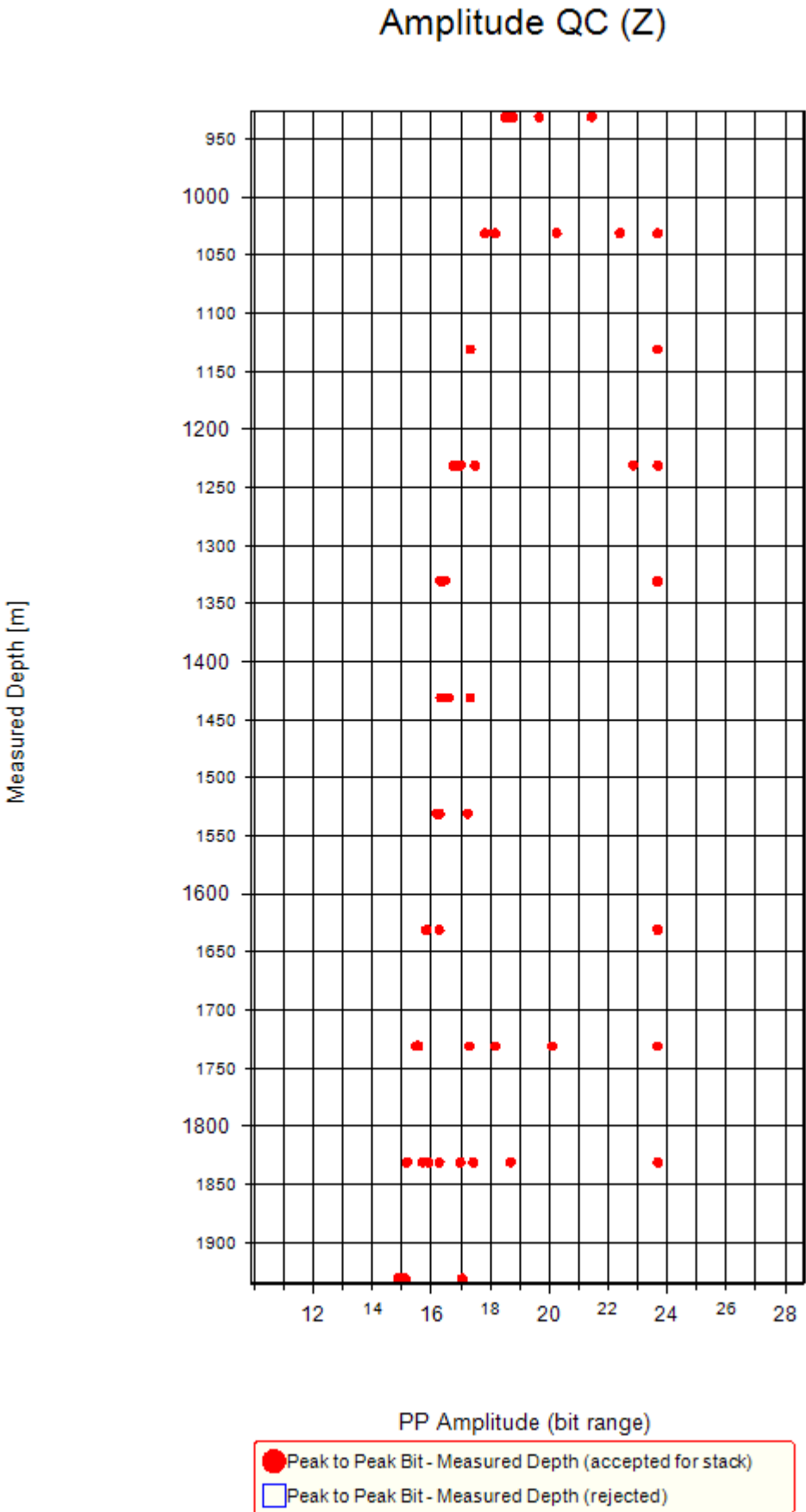
Amplitude QC Plot (X)



Amplitude QC Plot (Y)



Amplitude QC Plot (Z)



Observer's Note

Well depth[m]	Time(UTC)	Shot Type	Shot#	Stack#	Source	Remarks
NaN	13:18:30	ETHD	1			
NaN	13:18:40	GA01	2			
NaN	13:18:50	GA02	3			
NaN	13:19:00	GA04	4			
NaN	13:19:10	GA08	5			
NaN	13:19:21	GA16	6			
NaN	13:19:35	XTLK	7			
NaN	13:19:49	XTLK	8			
NaN	13:20:04	XTLK	9			
NaN	13:20:14	EIMP	10			
NaN	13:20:25	ENHI	11			
NaN	13:20:37	ENLO	12			
NaN	13:20:47	DRNG	13			
1931.2	16:36:31	SHAK	14			
1931.2	16:37:03	BKGD	15			
1931.2	16:38:24	SHOT	16	1		
1931.2	16:39:43	SHOT	17	1		
1931.2	16:41:47	SHOT	18	1		
1931.2	16:42:50	SHOT	19	1		
1931.2	16:43:45	SHOT	20	1		
1831.1	16:59:55	SHOT	21	2		
1831.1	17:00:58	SHOT	22	2		
1831.1	17:01:39	SHOT	23	2		
1831.1	17:04:14	SHOT	24	2		
1831.1	17:05:23	SHOT	25	2		
1831.1	17:06:19	SHOT	26	2		
1831.1	17:06:54	SHOT	27	2		
1831.1	17:07:34	SHOT	28	2		
1731.1	17:17:05	SHOT	29	3		
1731.1	17:17:51	SHOT	30	3		
1731.1	17:18:43	SHOT	31	3		

Well depth[m]	Time(UTC)	Shot Type	Shot#	Stack#	Source	Remarks
1731.1	17:19:21	SHOT	32	3		
1731.1	17:19:52	SHOT	33	3		
1731.1	17:20:25	SHOT	34	3		
1731.1	17:21:10	SHOT	35	3		
1731.1	17:21:54	SHOT	36	3		
1631.1	17:33:25	SHOT	37	4		Not good contact
1631.1	17:34:10	SHOT	38	4		
1631.1	17:35:02	SHOT	39	4		
1631.1	17:35:37	SHOT	40	4		
1631.1	17:36:07	SHOT	41	4		
1631.1	17:36:47	SHOT	42	4		
1631.1	17:37:19	SHOT	43	4		
1630.1	17:40:10	SHOT	44	5		
1630.1	17:41:06	SHOT	45	5		
1630.1	17:41:46	SHOT	46	5		
1630.1	17:42:26	SHOT	47	5		
1630.1	17:43:02	SHOT	48	5		
1531.0	17:51:32	SHOT	49	6		
1531.0	17:53:10	SHOT	50	6		
1531.0	17:53:55	SHOT	51	6		
1531.0	17:54:48	SHOT	52	6		
1431.1	18:03:21	SHOT	53	7		
1431.1	18:04:13	SHOT	54	7		
1431.1	18:04:45	SHOT	55	7		
1431.1	18:05:30	SHOT	56	7		
1431.1	18:06:09	SHOT	57	7		
1331.1	18:15:41	SHOT	58	8		
1331.1	18:16:25	SHOT	59	8		
1331.1	18:17:18	SHOT	60	8		
1331.1	18:18:03	SHOT	61	8		
1331.1	18:18:34	SHOT	62	8		

Well depth[m]	Time(UTC)	Shot Type	Shot#	Stack#	Source	Remarks
1331.1	18:19:21	SHOT	63	8		
1330.1	18:22:58	SHOT	64	9		
1330.1	18:23:38	SHOT	65	9		
1330.1	18:24:13	SHOT	66	9		
1330.1	18:24:46	SHOT	67	9		
1330.1	18:25:21	SHOT	68	9		
1330.1	18:25:53	SHOT	69	9		
1231.0	18:38:21	SHOT	70	10		
1231.0	18:39:47	SHOT	71	10		
1231.0	18:40:33	SHOT	72	10		
1231.0	18:41:21	SHOT	73	10		
1231.0	18:42:04	SHOT	74	10		
1231.0	18:43:16	SHOT	75	10		
1231.0	18:44:07	SHOT	76	10		
1131.0	18:53:42	SHOT	77	11		
1131.0	18:54:34	SHOT	78	11		
1131.0	18:55:13	SHOT	79	11		
1131.0	18:55:57	SHOT	80	11		
1131.0	18:57:01	SHOT	81	11		
1131.0	18:57:49	SHOT	82	11		
1131.0	18:58:39	SHOT	83	11		
1131.0	18:59:18	SHOT	84	11		
1031.0	19:07:56	SHOT	85	12		
1031.0	19:08:14	SHOT	86	12		
1031.0	19:08:47	SHOT	88	12		
1031.0	19:09:38	SHOT	89	12		
1031.0	19:10:27	SHOT	90	12		
1031.0	19:11:08	SHOT	91	12		
1031.0	19:12:21	SHOT	92	12		
931.1	19:22:52	SHOT	93	13		
931.1	19:24:00	SHOT	94	13		

Well depth[m]	Time(UTC)	Shot Type	Shot#	Stack#	Source	Remarks
931.1	19:24:43	SHOT	95	13		
931.1	19:25:53	SHOT	96	13		
931.1	19:26:46	SHOT	97	13		
931.1	19:27:25	SHOT	98	13		

Test Evaluation Report

Test Name		Date			Shot No		Station Depth	
Test Name		Date			Shot No		Station Depth	
Evaluation Item		Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result
Evaluation Item		Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result
Total Harmonic Distortion		1	X	-105.40	dB	-	-90.0000	PASS
Total Harmonic Distortion		1	Y	-103.61	dB	-	-90.0000	PASS
Total Harmonic Distortion		1	Z	-105.29	dB	-	-90.0000	PASS

Test Name		Date			Shot No		Station Depth	
Test Name		Date			Shot No		Station Depth	
Evaluation Item		Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result
Evaluation Item		Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result
Gain Accuracy		1	X	0.14	dB	-0.5000	0.5000	PASS
Gain Step Accuracy		1	X	0.00	dB	-0.5000	0.5000	PASS
Gain Accuracy		1	Y	0.14	dB	-0.5000	0.5000	PASS
Gain Step Accuracy		1	Y	0.00	dB	-0.5000	0.5000	PASS
Gain Accuracy		1	Z	0.14	dB	-0.5000	0.5000	PASS
Gain Step Accuracy		1	Z	0.00	dB	-0.5000	0.5000	PASS

Test Name		Date			Shot No		Station Depth	
Test Name		Date			Shot No		Station Depth	
Evaluation Item		Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result
Evaluation Item		Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result
Gain Accuracy		1	X	0.13	dB	-0.5000	0.5000	PASS
Gain Step Accuracy		1	X	0.00	dB	-0.5000	0.5000	PASS
Gain Accuracy		1	Y	0.14	dB	-0.5000	0.5000	PASS
Gain Step Accuracy		1	Y	0.00	dB	-0.5000	0.5000	PASS
Gain Accuracy		1	Z	0.13	dB	-0.5000	0.5000	PASS
Gain Step Accuracy		1	Z	0.00	dB	-0.5000	0.5000	PASS

Test Name		Date			Shot No		Station Depth	
Test Name		Date			Shot No		Station Depth	
Evaluation Item		Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result
Evaluation Item		Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result
Gain Accuracy		1	X	0.13	dB	-0.5000	0.5000	PASS
Gain Step Accuracy		1	X	0.00	dB	-0.5000	0.5000	PASS
Gain Accuracy		1	Y	0.14	dB	-0.5000	0.5000	PASS
Gain Step Accuracy		1	Y	0.00	dB	-0.5000	0.5000	PASS
Gain Accuracy		1	Z	0.13	dB	-0.5000	0.5000	PASS
Gain Step Accuracy		1	Z	0.00	dB	-0.5000	0.5000	PASS

Test Name		Date			Shot No		Station Depth	
Test Name		Date			Shot No		Station Depth	
AMPLIFIER GAIN - 16 TEST		5/28/2023 3:19:10 PM (UTC+02:00)			Shot No: 5		Station Depth: None	
Evaluation Item	Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result	
Gain Accuracy	1	X	0.13	dB	-0.5000	0.5000	PASS	
Gain Step Accuracy	1	X	0.01	dB	-0.5000	0.5000	PASS	
Gain Accuracy	1	Y	0.14	dB	-0.5000	0.5000	PASS	
Gain Step Accuracy	1	Y	0.00	dB	-0.5000	0.5000	PASS	
Gain Accuracy	1	Z	0.13	dB	-0.5000	0.5000	PASS	
Gain Step Accuracy	1	Z	0.01	dB	-0.5000	0.5000	PASS	

Test Name		Date			Shot No		Station Depth	
Test Name		Date			Shot No		Station Depth	
AMPLIFIER GAIN - 92 TEST		5/28/2023 3:19:21 PM (UTC+02:00)			Shot No: 6		Station Depth: None	
Evaluation Item	Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result	
Gain Accuracy	1	X	0.13	dB	-0.5000	0.5000	PASS	
Gain Step Accuracy	1	X	0.00	dB	-0.5000	0.5000	PASS	
Gain Accuracy	1	Y	0.15	dB	-0.5000	0.5000	PASS	
Gain Step Accuracy	1	Y	0.00	dB	-0.5000	0.5000	PASS	
Gain Accuracy	1	Z	0.13	dB	-0.5000	0.5000	PASS	
Gain Step Accuracy	1	Z	0.01	dB	-0.5000	0.5000	PASS	

Test Name		Date			Shot No		Station Depth	
Test Name		Date			Shot No		Station Depth	
Evaluation Item		Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result
Evaluation Item		Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result
Cross Talk X-Y		1	-	-99.86	dB	-	-90.00000	PASS
Cross Talk X-Z		1	-	-98.52	dB	-	-90.00000	PASS

Test Name		Date			Shot No		Station Depth	
Test Name		Date			Shot No		Station Depth	
Evaluation Item		Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result
Evaluation Item		Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result
Cross Talk Y-Z		1	-	-97.95	dB	-	-90.00000	PASS
Cross Talk Y-X		1	-	-99.38	dB	-	-90.00000	PASS

Test Name		Date			Shot No		Station Depth	
Test Name		Date			Shot No		Station Depth	
Evaluation Item		Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result
Evaluation Item		Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result
Cross Talk Z-X		1	-	-96.84	dB	-	-90.00000	PASS
Cross Talk X-Y		1	-	-96.48	dB	-	-90.00000	PASS

Test Name		Date			Shot No		Station Depth	
Test Name		Date			Shot No		Station Depth	
Evaluation Item		Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result
Evaluation Item		Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result
Amplitude (0.3Hz)		1	X	-1.59	dB	-5.0000	-	PASS
Amplitude (400Hz)		1	X	-3.67	dB	-5.0000	-	PASS
Impulse Amplitude		1	X	572.90	milli V	-	-	-
Phase Diff. at 0.3Hz from X1		1	X	0.00	degree	-	-	-
Amplitude (0.3Hz)		1	Y	-1.67	dB	-5.0000	-	PASS
Amplitude (400Hz)		1	Y	-3.67	dB	-5.0000	-	PASS
Impulse Amplitude		1	Y	573.45	milli V	-	-	-
Phase Diff. at 0.3Hz from X1		1	Y	0.85	degree	-	-	-
Amplitude (0.3Hz)		1	Z	-1.64	dB	-5.0000	-	PASS
Amplitude (400Hz)		1	Z	-3.67	dB	-5.0000	-	PASS
Impulse Amplitude		1	Z	573.05	milli V	-	-	-
Phase Diff. at 0.3Hz from X1		1	Z	0.42	degree	-	-	-

Test Name		Date			Shot No		Station Depth	
Test Name		Date			Shot No		Station Depth	
Evaluation Item		Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result
Evaluation Item		Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result
DC Offset		1	X	-24.87	milli V	-100.0000	100.0000	PASS
RMS Noise Level		1	X	0.12	micro V	-	0.5000	PASS
Noise Peak		1	X	0.41	micro V	-	2.0000	PASS
DC Offset		1	Y	-25.30	milli V	-100.0000	100.0000	PASS
RMS Noise Level		1	Y	0.13	micro V	-	0.5000	PASS
Noise Peak		1	Y	0.45	micro V	-	2.0000	PASS
DC Offset		1	Z	-24.91	milli V	-100.0000	100.0000	PASS
RMS Noise Level		1	Z	0.13	micro V	-	0.5000	PASS
Noise Peak		1	Z	0.47	micro V	-	2.0000	PASS

Test Name		Date			Shot No		Station Depth	
Test Name		Date			Shot No		Station Depth	
Evaluation Item		Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result
Evaluation Item		Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result
DC Offset		1	X	-25.36	milli V	-100.0000	100.0000	PASS
RMS Noise Level		1	X	0.12	micro V	-	0.5000	PASS
Noise Peak		1	X	0.42	micro V	-	2.0000	PASS
DC Offset		1	Y	-25.50	milli V	-100.0000	100.0000	PASS
RMS Noise Level		1	Y	0.12	micro V	-	0.5000	PASS
Noise Peak		1	Y	0.48	micro V	-	2.0000	PASS
DC Offset		1	Z	-25.36	milli V	-100.0000	100.0000	PASS
RMS Noise Level		1	Z	0.12	micro V	-	0.5000	PASS
Noise Peak		1	Z	0.49	micro V	-	2.0000	PASS

Test Name		Date			Shot No		Station Depth	
Test Name		Date			Shot No		Station Depth	
Evaluation Item		Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result
Evaluation Item		Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result
System Dynamic Range		1	X	107.31	dB	103.0000	-	PASS
System Dynamic Range		1	Y	107.42	dB	103.0000	-	PASS
System Dynamic Range		1	Z	107.13	dB	103.0000	-	PASS

Correlation

