

Survey type: **Check Shot Survey**
Company: **Santos Ltd**
Well: **Jarver-1**
Field: **T/33P**
Location: **DS01-142X Trace 1280**
Country: **Australia**
Run: **1**
Date: **5-Jun-2008**

Recorded by: M.Jahangir /Srini
QC & Reported by: M.Jahangir /S. Nakanishi

Witnessed by: Mr John Pitman

Report Contents

Section	Page Number
Introduction	2
Well Information	3
Well Sketch	4
Well Inclinometry List	5
Tool Sketch	7
Tool Configuration	8
Operating Time Summary	9
Job Summary	10
Survey Information	11
Well Profile	13
Geometry Information (X-Y)	14
Geometry Information (X-Z)	15
Geometry Information (Y-Z)	16
Time/Depth Plot	17
Velocity Plot	18
Stack Summary Listing	19
Raw Wave Field Report	
Raw Stack (Z) plot	24
Raw Stack (X) plot	25
Raw Stack (Y) plot	26
Raw Stack (Z) plot	27
VSP Raw Stack(Z)	28
Source Signature QC Report	30
Amplitude QC Report	34
Shot summary Listing	42
Observers Report	50
GR Correlation Log Report	54
Tidal Water Level Report	82
Tool Evaluation Test Report	84

Introduction

A borehole seismic survey was recorded in Suite 1 Run 1 in the vertical (max. 1.5 deg deviation) offshore exploration well Jarver-1 on 05 June 2008. This survey included Rig Source Checkshot measurements from 3050 m MD RT to 809.72 m MD RT. The data were acquired using 4 shuttles VST-G (15.24 m spacing) downhole Tool.

A Parallel G-Gun cluster (2 x 150 cu. inch G-GUN) was deployed from the Rig (Ocean Patriot) with an azimuth of 300 degrees with reference to North. The offset of gun was fixed 61 m from the wellhead. The guns were submerged from a buoy to 5.3 meters below water surface. 2 hydrophones were deployed 5.0 meters below the centre of the gun cluster.

The cluster gun was manually tuned using WSI-A gun controller before the survey.

Survey Results

Three check-shot levels were taken while running in hole deepest VSI shuttle at 860.6 m, 1560.0m and 1791.4 m.

Data quality generally for the VSP considered to be good throughout the survey. At least 3 good repeatable shots were recorded at each level (2990.03 m to 795.47 m). The survey was used as a check shot survey.

Gamma Ray Log was recorded (up log) while main VSP survey. Depth offset 1.75 meters shallower is observed with reference to the LWD log. The depth offset is not corrected in this report.

The local tidal level used "zero" for the static correction. Static correction of transit time does not use water tide level in this report.

Well Information

Company	Santos Ltd
Well	Jarver-1
Field	T/33P
Country	Australia
State	Tasmania
Logging Date	5-Jun-2008
Run Number	1
Service Order	AUSL08349217
Well Head (Latitude)	41 20' 27.251" S
Well Head (Longitude)	144 14' 03.19" E
Well Head (X Coordinate)	770615.1 UTM
Well Head (Y Coordinate)	5418350.5 UTM
Total Depth - Driller	3061.8 m
Total Depth - Logger	3061.8 m
Maximum Hole Deviation	1.0 deg
Azimuth of Maximum Deviation	
Program Version	15C0-309
Bit Size	12.250 in
Recorded by	M.Jahangir /Srini
Witnessed by	Mr John Pitman

Elevation Information

Permanent Datum	MSL
Elevation Permanent Datum	0.0 m
Above Permanent Datum	20.9 m
Drilling Measured From	D.F
Derrick Floor	20.9 m
Ground Level	-576.8 m
Kelly Bush	20.9 m
Log Measured From	D.F
Elevation Log Zero	20.9 m

Depth Corrected Information

Water Velocity	1524.0 m/s
Seismic Reference Datum	0.0 m

Remarks

Tool String run as per tool sketch.
First run in the well , Log correlated to the MWD log (GR-RES-DEN-NEU) dated 05-Jun-2008.
TD Not tagged.
Maximum recorded temperature: 72 DegC ,72 Deg C , 72 Deg C

Well Inclinometry List

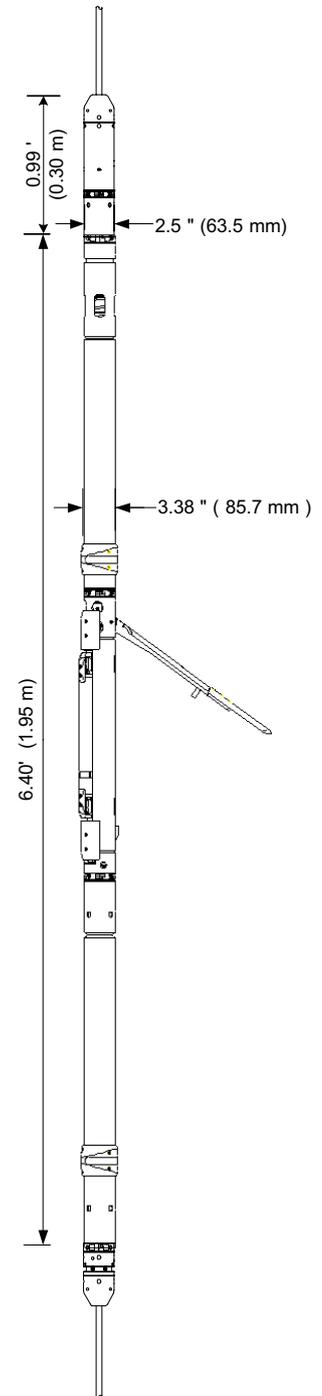
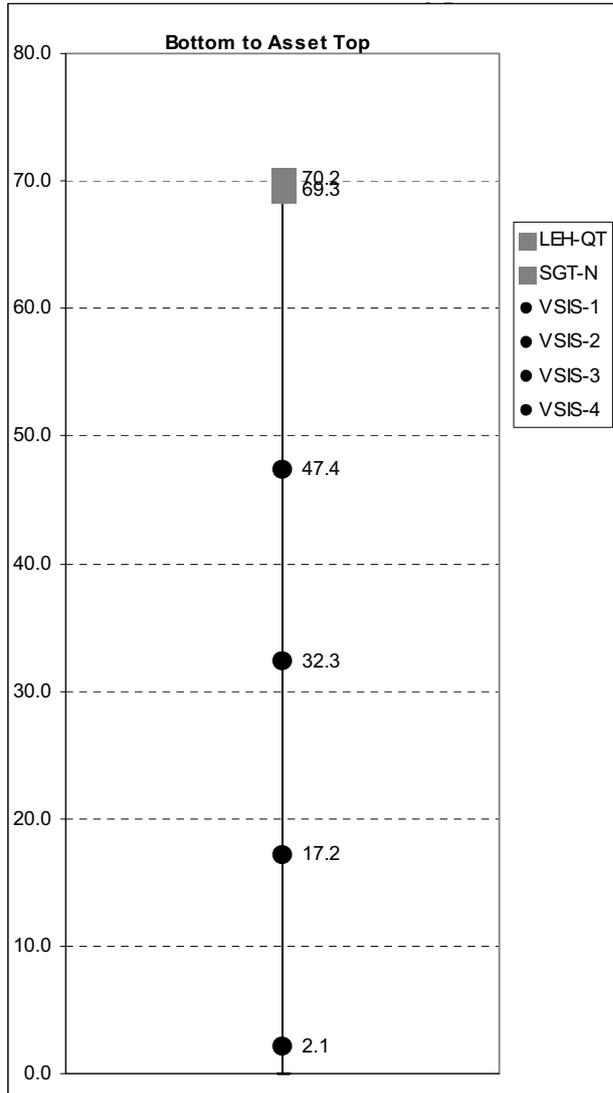
Meas. Tie Depth 0m
True Vert. Tie Depth 0m

Measured Depth (m)	Inclination (Deg)	Azimuth (Deg)	True Vertical Depth (m)
0.00	0.00	0.00	0.00
625.22	0.78	111.45	625.20
653.95	0.79	307.22	653.93
682.81	0.66	70.44	682.79
711.59	0.76	163.99	711.57
769.05	0.69	31.48	769.03
797.65	0.62	126.90	797.62
826.52	1.42	110.88	826.49
855.24	1.18	327.80	855.21
884.16	0.61	113.14	884.12
913.05	0.58	214.02	913.01
941.83	0.70	74.64	941.79
970.76	0.64	91.36	970.72
999.56	0.80	139.54	999.52
1028.45	0.46	115.68	1028.41
1057.36	0.62	109.10	1057.32
1086.13	0.59	71.18	1086.08
1115.06	0.67	143.53	1115.01
1144.00	0.68	139.77	1143.95
1172.93	0.58	138.87	1172.88
1201.85	0.45	160.27	1201.80
1230.68	0.67	137.73	1230.63
1259.58	0.29	168.59	1259.53
1288.49	0.11	130.28	1288.44
1317.41	0.23	108.83	1317.36
1346.30	0.29	95.15	1346.25
1375.23	0.41	87.00	1375.17
1398.40	0.32	101.81	1398.34
1436.48	0.21	345.43	1436.42
1466.32	0.29	343.15	1466.26
1523.81	0.26	327.52	1523.75
1552.31	0.15	306.71	1552.25
1610.49	0.20	273.09	1610.43
1667.70	0.10	327.45	1667.64
1753.02	0.15	85.88	1752.96
1782.05	0.17	30.71	1781.99
1811.44	0.22	22.53	1811.38
1840.13	0.41	23.27	1840.07
1896.95	0.36	21.42	1896.89
1928.28	0.40	341.32	1928.22
1960.02	0.46	333.87	1959.96

1988.76	0.36	339.99	1988.70
2017.29	0.35	330.35	2017.23
2046.82	0.40	345.32	2046.76
2076.60	0.30	339.19	2076.54
2105.86	0.28	331.18	2105.80
2163.31	0.34	338.86	2163.24
2192.25	0.32	344.83	2192.18
2219.96	0.41	332.65	2219.89
2278.23	0.35	333.64	2278.16
2335.93	0.45	317.58	2335.86
2421.85	0.36	319.82	2421.78
2508.06	0.43	323.34	2507.99
2594.16	0.37	325.91	2594.08
2768.83	0.44	309.07	2768.75
2827.34	0.37	280.23	2827.26
2940.58	0.37	309.92	2940.50
3061.80	0.42	338.67	3061.71

Tool Sketch

	meter
LEH-QT	0.89
EDTC-B	1.98
AH199	0.31
VSPC-BA	3.22
VSCC-BB	3.18
VSII-1	13.17
VSIS-1	1.95
VSII-2	13.17
VSIS-2	1.95
VSII-3	13.17
VSIS-3	1.95
VSII-4	13.17
VSIS-4	1.95
VSIA	0.10
TOTAL	70.16



Downhole Equipment Information

Tool Type	VSIT-GA
Surface Equipment	WASM-AB , WSI 937
Combined Tool	EDTC-B , AH-199 (5049)
Number of Shuttles	4
Nominal Receiver Spacing	15.24 m
Gimbaled (Y/N)	No
Downhole Geophone Type	GAC-D 3-axis orthogonal
Sensitivity	0.5 V/G 3%
Natural Frequency	20 Hz
Damping Factor	N/A
DC Resistance	1500 Ohms 3% @25 degC
Measurement Specification	
Dynamic range	> 105 dB at 36 dB
Distortion	< -90 dB
Analog Low-Cut filter	0.3 Hz, -6 dB/Oct
Digital Low-Cut filter	None
DC Offset removal	Averaging by surface software
Digital High-Cut filter	Linear phase at down hole
Pass band ripple	+/- 0.01 dB
Stop band attenuation	< -130 dB
Bandwidth	80% of Nyquist frequency
Test Signal harmonic distortion	< -110 dB
Tool SN	
VSPC-GA	ENP19
VSCC-GA	ENP19
VSII-GA	ENP99
Receiver #1 (VSIS-GA)	ENP99
VSII-GA	ENP98
Receiver #2 (VSIS-GA)	ENP97
VSII-GA	ENP100
Receiver #3 (VSIS-GA)	ENP94
VSII-GA	ENP95
Receiver #4 (VSIS-GA)	ENP95

Operation Time Summary

DATE	Time Start	Time Taken Hr : min	OPERATION
5-Jun-08	0:00	1:00	Rig Up VSI
	1:00	0:30	Surface Check VSI
	1:30	0:20	RIH in hole
	3:45	0:15	Commence QC shot at 860.6 m
	4:00	0:45	RIH in hole
	4:45	0:15	Commence QC shot at 1560 m
	5:00	1:00	RIH in hole
	6:00	5:00	Operation suspended
	11:00	2:00	Operation Started again
	13:00	11:00	VSI First Shot at 2990.03
6-Jun-08	0:00	0:45	VSI upto last shot 795.47 m complete VSP survey
	0:45	0:10	VSI at 795.47 m Complete survey, POOH
	0:55	0:20	VSI at surface, commence rig down of VSI
	1:15		Rig down completed well released
		23:20	HRS -TOTAL OPERATING TIME

Remarks:

General Information

Survey Type	Zero Offset VSP
Surface Recording Length	1000.0 ms
Surface Sampling Rate	1.00 ms
Downhole Recording Length	5000.0 ms
Downhole Sampling Rate	1.0 ms
Top of Survey	214.4 m
Bottom of Survey	3050.0 m
Number of Shots	166
Number of Downhole Traces	664
Number of Downhole Traces used for Processing	552

Borehole Seismic Source Information

Engineer: M. Jahangir / Srin

Well Name: Jarver 1

Date: 04-Jun-2008

Rig: Ocean Patriot

<Geometrical Coordinates>
<UTM Coordinates>

Longitude: 144 14' 03.19" E
Easting: 770615.100 E

Latitude: 41 20' 27.251" S
Northing: 5418350.400 N

Permanent Datum: MSL
Log Measured From: DF

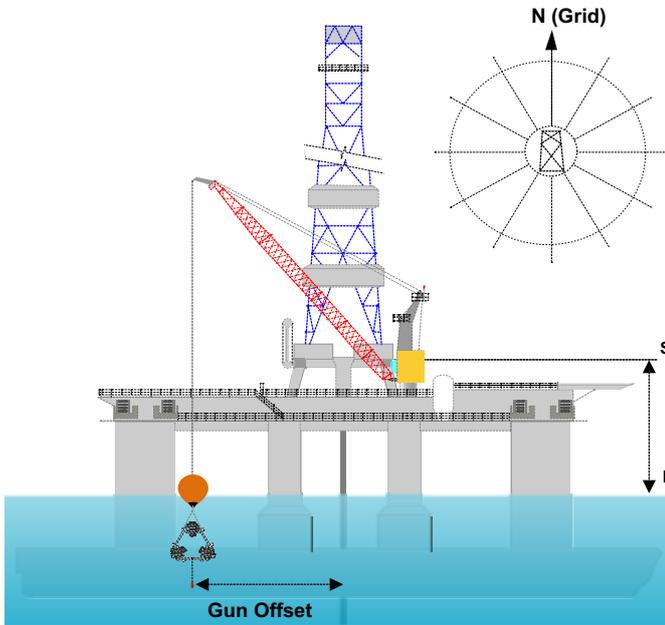
Elev. 20.9

Unit : m

SRD (Seismic Reference Datum): MSL
Water Depth: 576.9

Elev. 0.0

from SLB zero: 20.9 (SRDS)



RIG Heading: 44.0 deg
 Rig Crane used: Port side Starboard side
 Rig Crane azimuth (from Rig Heading): 256.0 deg
 Gun Azimuth (Grid North): 300.0 deg (GAZI)
 Hy1 Azimuth (Grid North): 300.0 deg
 Hy2 Azimuth (Grid North): 300.0 deg
 Hy3 Azimuth (Grid North): deg
 Gun Offset: 61.0 (GOFF)
 Hydrophone-1 Offset: 61.0
 Hydrophone-2 Offset: 61.0
 Hydrophone-3 Offset: 61.0

Surface Velocity: 1524 m/s (SVEL)

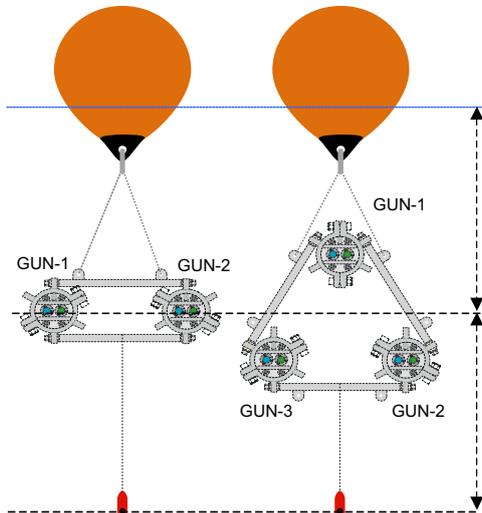
Cluster Gun Type:

WSGC-P90 WSGC-T90

Gun Type:

WSG-G150 (G-Gun 150cu.inch)
 WSG-G250 (G-Gun 250cu.inch)

GUN-1 sn: 54537
 GUN-2 sn: 54530
 GUN-3 sn: 000000



Gun Depth from Local Tide: 5.3
 Gun Depth from SLB: 26.2 (GDSZ)

Hydrophone 1 Type: MP-24L3 (10Hz)
 Hydrophone 2 Type: MP-24L3 (10Hz)
 Hydrophone 3 Type: none

Hy 1 Depth from Gun	Hy 1 Depth from LT	Hy 1 Depth from SLB zero
5.3	10.6	31.5
Hy 2 Depth from Gun	Hy 2 Depth from LT	Hy 2 Depth from SLB zero
5.3	10.6	31.5
Hy 3 Depth from Gun	Hy 3 Depth from LT	Hy 3 Depth from SLB zero

Air Gun Firing Pressure: 1800 psi
 Source of Air supply: Rig Supply
 Air Controller (Regulator) Type: WAP-SS01

Accumulator Pressure (Inlet pressure): 2000 psi
 sn: 600

Sea Condition

Sea Condition: Moderate
 Low Tide Level:
 High Tide Level:
 Tide Table available: Yes No

Wave Height: 1.5
 at 06:00 04/Jun/08
 at 01:00 04/Jun/08

Main survey started at 13:00 05/Jun/08
 ended at 00:45 06/Jun/08

HSE

Safe Distance: 6.3

Observation of Marine Mammals

Marine Mammals sighted in 30 minutes before the survey
 Soft-Start implemented:

Yes No
 Yes No

Borehole Seismic Gun Tuning Information

Surface Sensor Channels / Gun Controller

WSAM (WSI) sn: WSAM:712 / WSI:000000				
	Gun No	TB	Hy No	SSPS
S1 (WSI-SS2)		<input type="checkbox"/>	1	<input checked="" type="checkbox"/>
S2 (WSI-SS3)		<input type="checkbox"/>	2	<input type="checkbox"/>
S3 (WSI-SS4)	1	<input checked="" type="checkbox"/>		<input type="checkbox"/>
S4 (WSI-SS5)	2	<input checked="" type="checkbox"/>		<input type="checkbox"/>
S5 (WSI-SS6)		<input type="checkbox"/>		<input type="checkbox"/>
S6 (WSI-SS7)		<input type="checkbox"/>		<input type="checkbox"/>

TGS-8 sn: RL:MWA118771				
	Gun No	TB	Hy No	
Ch1	1	<input type="checkbox"/>		
Ch2	2	<input type="checkbox"/>		
Ch3		<input type="checkbox"/>		
Ch4		<input type="checkbox"/>		
Ch5		<input type="checkbox"/>		
Ch6		<input type="checkbox"/>		
Sig			1	
Aux1 Sig			2	
Aux2 Sig				
P1	<input type="checkbox"/>	Depth S.	<input type="checkbox"/>	Pres. S.
P2	<input type="checkbox"/>	Depth S.	<input type="checkbox"/>	Pres. S.
P3	<input type="checkbox"/>	Depth S.	<input type="checkbox"/>	Pres. S.
P4	<input type="checkbox"/>	Depth S.	<input type="checkbox"/>	Pres. S.

Cluster Gun Tuning / Quality Control

Tuning Sensor used
 Time Break Sensor
 Hydrophone

WSI	Gun No	Gun Delay(ms)
FS1	1	30.0
FS2	2	30.0
FS3		0.0

TGS-8	Gun No	Gun Delay(ms)	Threshold(v)
Ch1	1	0.0	0.0
Ch2	2	0.0	0.0
Ch3		0.0	0.0
Ch4		0.0	0.0
Ch5		0.0	0.0
Ch6		0.0	0.0

ClusterTuning (Break Time of Tuning Sensors)

	FS1 / Ch 1	FS2 / Ch 2	FS3 / Ch
Shot-1	29.3	29.7	
Shot-2	39.1	38.6	
Shot-3	29.3	38.6	
Shot-4	29.3	38.7	
Shot-5	29.3	38.4	
Shot-6	29.3	38.6	
Shot-7	39.0	38.5	
Average	31.2	38.5	0.0

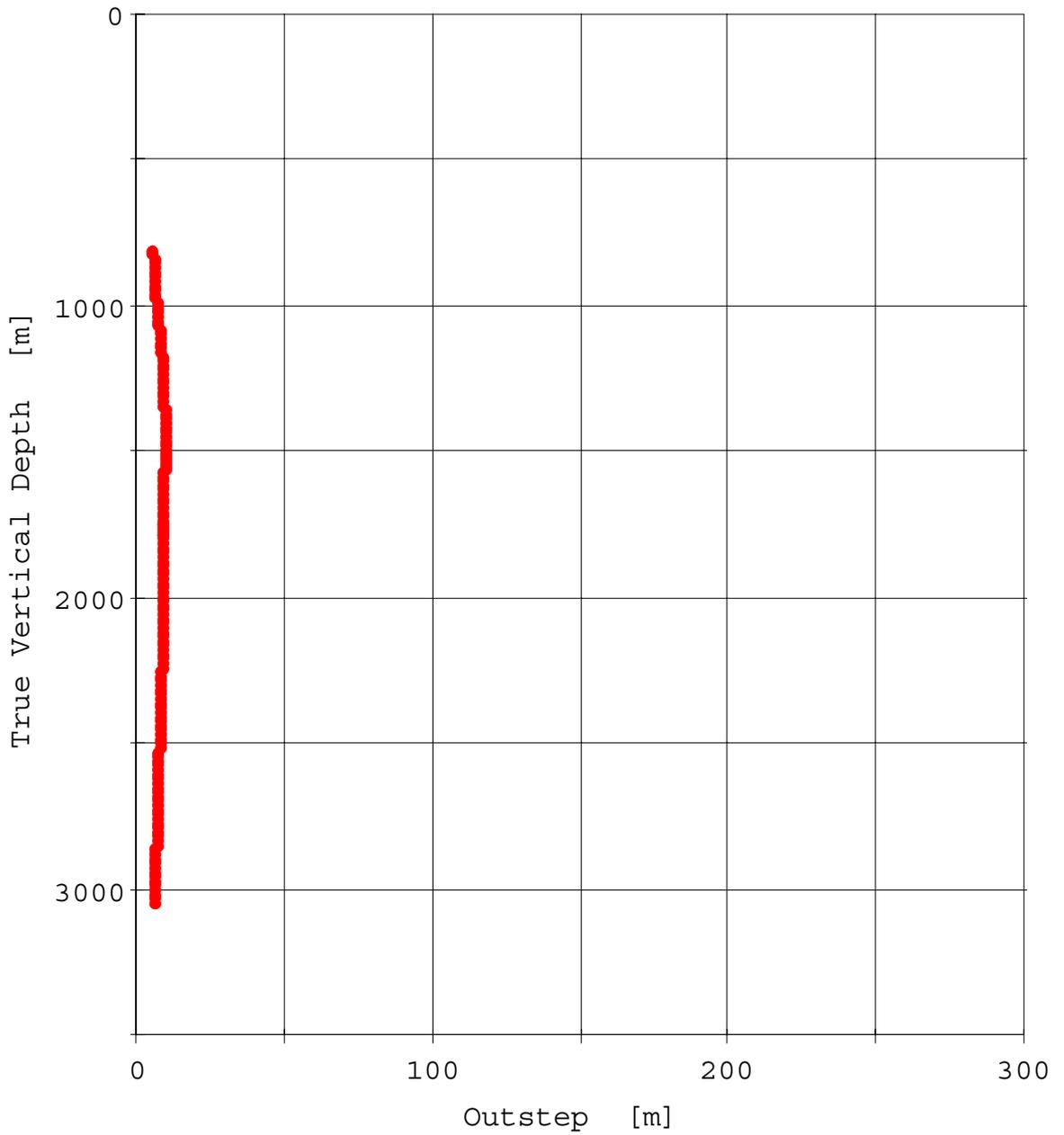
Quality Check Surface Signals / Filling Time (air Regulator)

	S1 Time Break / PP	S2 TT(ms) / PP	S3 TT(ms) / PP	S4 TT(ms) / PP	S5 TT(ms) / PP	S6 TT(ms) / PP	Filling Time (sec)
Shot-1	42.3 / 29070	42.2 / 31002	39.1 / 925	29.7 / 542	0.0 / 0	0.0 / 0	0
Shot-2	42.3 / 27539	42.2 / 30265	29.3 / 429	29.8 / 554	0.0 / 0	0.0 / 0	0
Shot-3	42.3 / 27729	42.2 / 30315	29.3 / 895	29.7 / 547	0.0 / 0	0.0 / 0	0
Shot-4	42.3 / 28362	42.2 / 30953	29.3 / 429	29.8 / 542	0.0 / 0	0.0 / 0	0
Shot-5	42.6 / 28519	42.2 / 30107	39.2 / 873	29.8 / 541	0.0 / 0	0.0 / 0	0

Other Logs Information

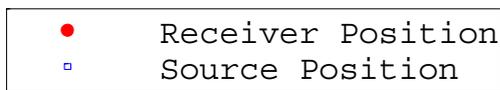
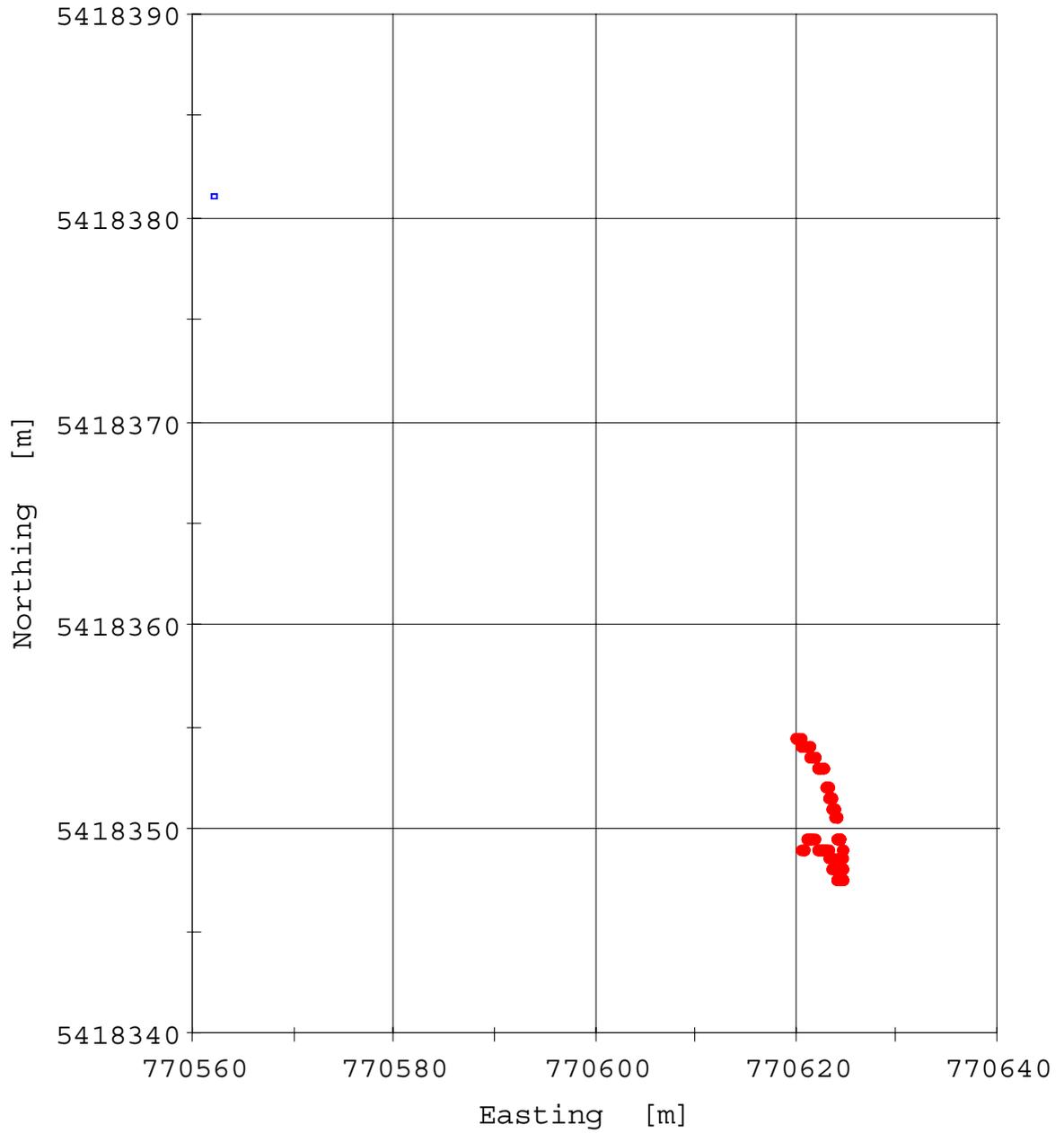
Remarks

Well Profile

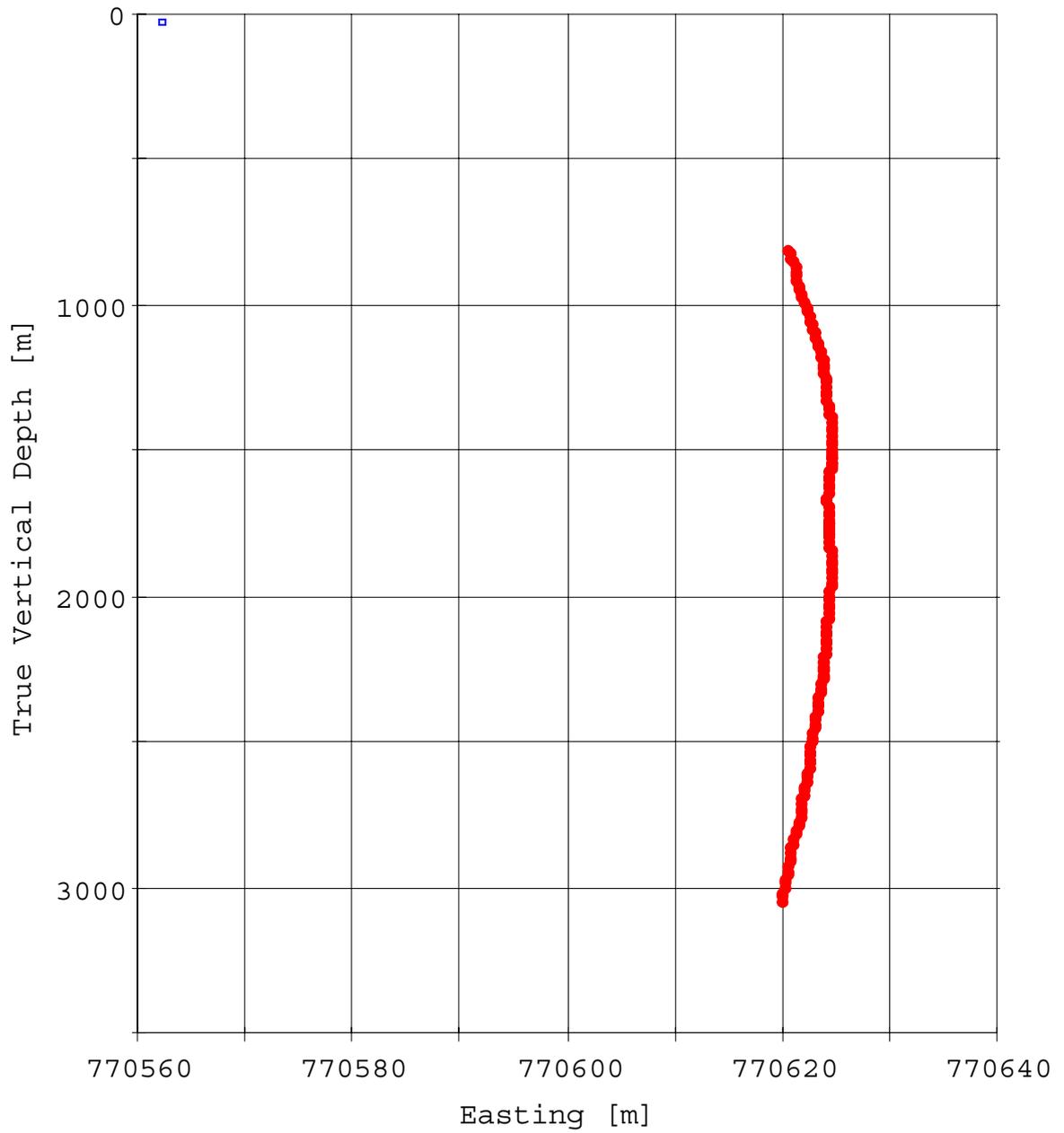


• Receiver Position

Geometry Infomation (X-Y)

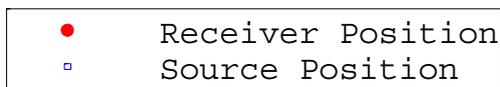
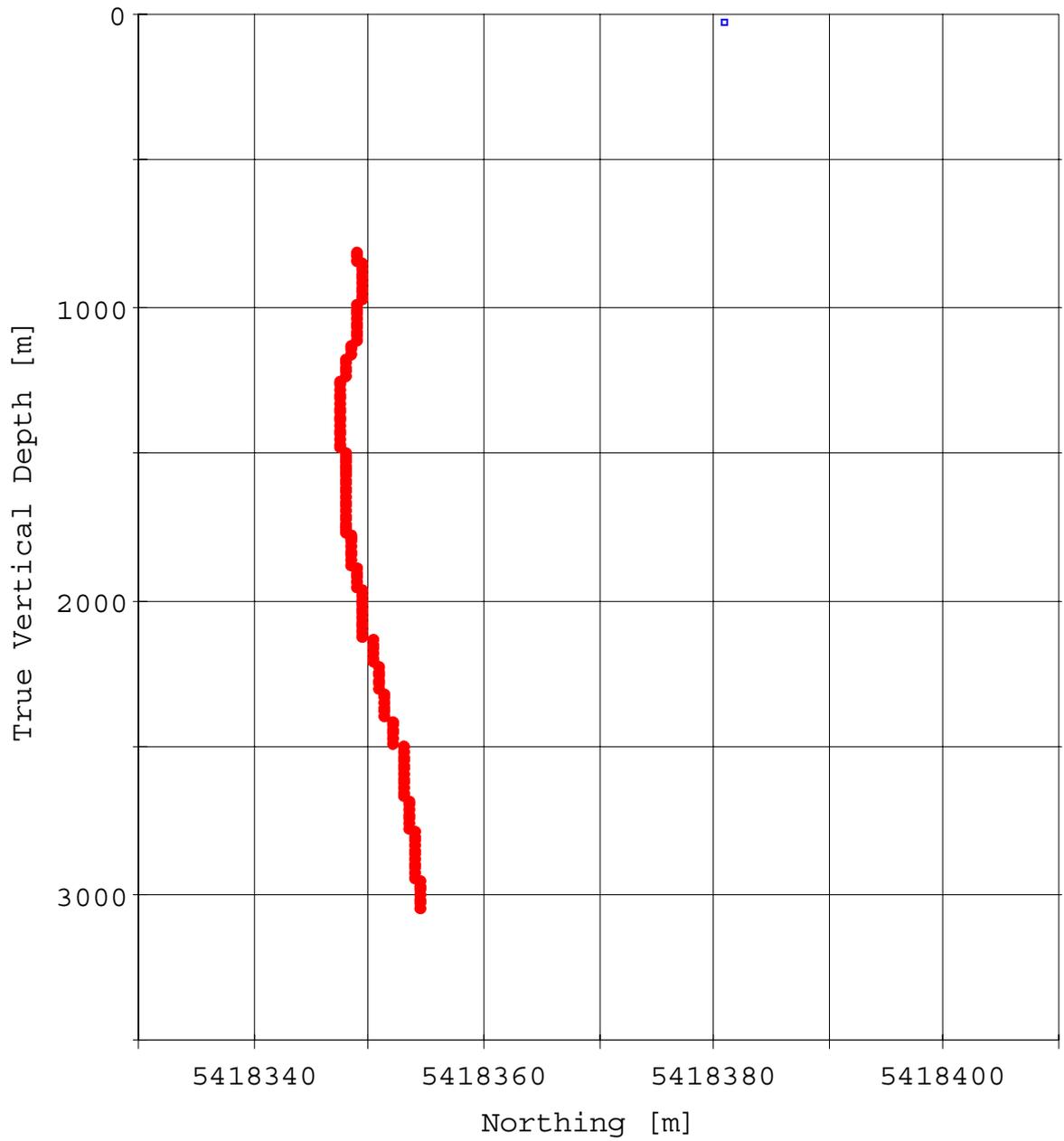


Geometry Infomation (X-Z)



● Receiver Position
□ Source Position

Geometry Information (Y-Z)

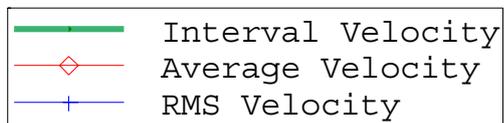
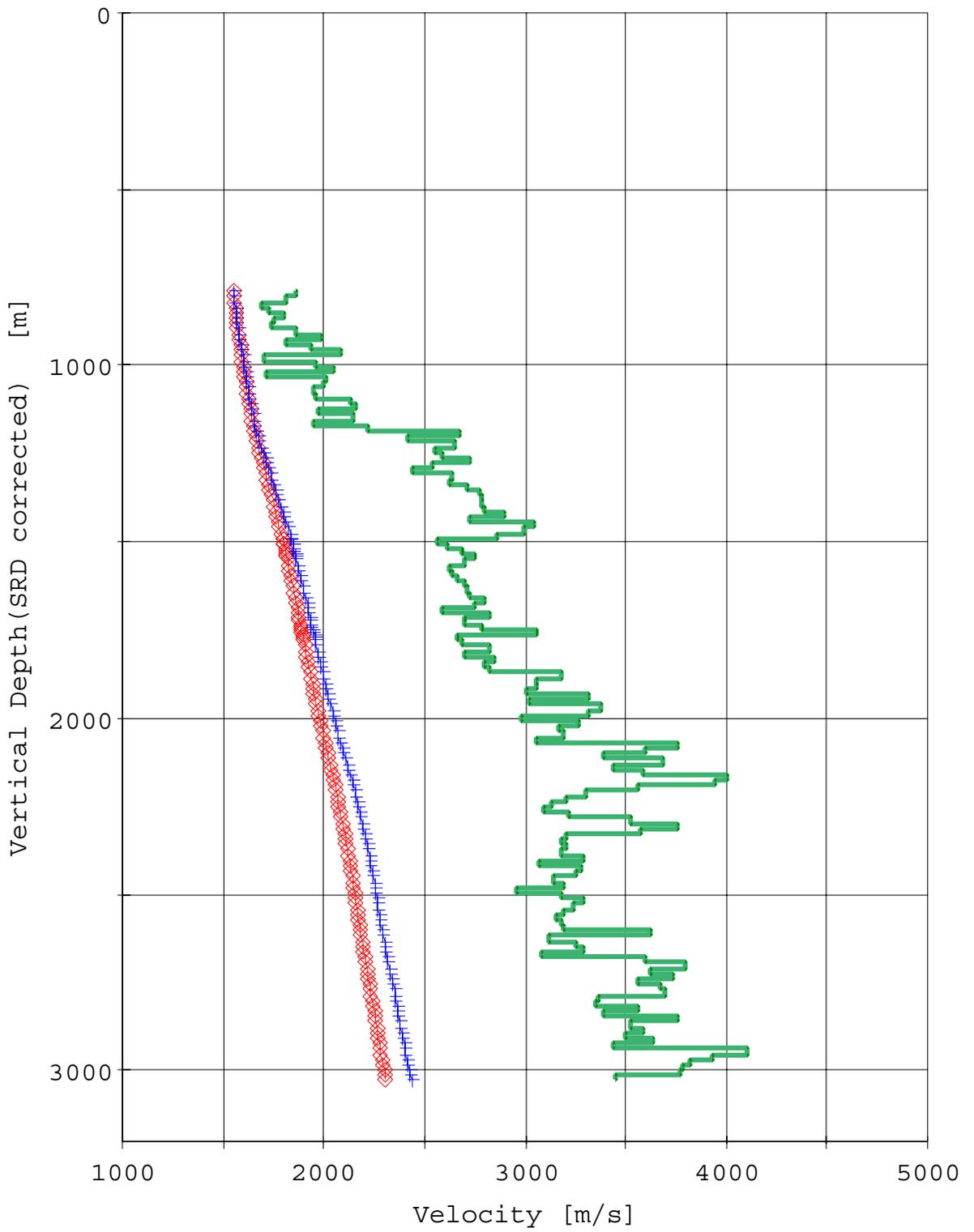


Time Depth Plot



• One-way Vertical Time
■ Two-way Vertical Time

Velocity Plot Page



Stack Summary Listing (1/5) 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]
	0	0	0	0	0			
						1549.3		
46	809.7	788.9	0.5042	0.5092	1.0183		1549.3	1549.3
						1860.7		
46	825.0	804.1	0.5124	0.5174	1.0347		1554.2	1554.7
						1814.1		
46	840.2	819.3	0.5208	0.5258	1.0515		1558.4	1559.2
						1686.6		
46	855.4	834.6	0.5298	0.5348	1.0696		1560.5	1561.4
						1726.1		
45	870.7	849.8	0.5386	0.5436	1.0872		1563.2	1564.2
						1799.4		
45	885.9	865.0	0.5470	0.5521	1.1042		1566.9	1568.1
						1751.4		
45	901.2	880.3	0.5557	0.5608	1.1216		1569.7	1571.1
						1736.7		
45	916.4	895.5	0.5644	0.5696	1.1391		1572.3	1573.8
						1857.2		
44	931.7	910.8	0.5726	0.5778	1.1555		1576.3	1578.2
						1981.5		
44	946.9	926.0	0.5803	0.5855	1.1709		1581.7	1584.2
						1806.3		
44	962.1	941.2	0.5887	0.5939	1.1878		1584.9	1587.5
						1935.8		
44	977.4	956.5	0.5965	0.6018	1.2035		1589.4	1592.6
						2085.3		
43	992.5	971.6	0.6038	0.6090	1.2181		1595.4	1599.4
						1701.7		
43	1007.8	986.9	0.6127	0.6180	1.2360		1596.9	1600.9
						1966.0		
43	1023.0	1002.1	0.6204	0.6258	1.2515		1601.5	1605.9
						2046.6		
43	1038.3	1017.4	0.6279	0.6332	1.2664		1606.7	1611.8
						1715.6		
42	1053.6	1032.7	0.6368	0.6421	1.2843		1608.2	1613.3
						2009.8		
42	1068.8	1047.9	0.6443	0.6497	1.2994		1612.9	1618.5
						1995.7		
42	1084.1	1063.2	0.6520	0.6573	1.3147		1617.4	1623.4
						1944.2		
42	1099.3	1078.4	0.6598	0.6652	1.3304		1621.2	1627.5
						1956.6		
41	1114.5	1093.6	0.6675	0.6730	1.3459		1625.1	1631.7
						2130.0		
41	1129.8	1108.9	0.6747	0.6801	1.3602		1630.4	1637.7
						2160.2		
41	1145.0	1124.1	0.6817	0.6872	1.3744		1635.8	1643.9
						1966.2		
41	1160.2	1139.3	0.6895	0.6949	1.3899		1639.5	1647.9
						2140.4		
40	1175.5	1154.6	0.6966	0.7020	1.4041		1644.6	1653.6
						1951.3		
40	1190.7	1169.8	0.7044	0.7099	1.4197		1648.0	1657.2
						2219.1		
40	1206.0	1185.1	0.7112	0.7167	1.4334		1653.4	1663.5
						2675.9		
40	1221.2	1200.3	0.7169	0.7224	1.4448		1661.5	1673.8
						2409.8		
39	1236.5	1215.6	0.7232	0.7287	1.4575		1668.0	1681.6
						2653.0		
39	1251.7	1230.8	0.7289	0.7345	1.4690		1675.7	1691.4
						2552.2		
39	1266.9	1246.0	0.7349	0.7405	1.4809		1682.8	1700.1
						2585.4		

Stack Summary Listing (2/5) from VSI_001_A_geo_wavefield_z.1df

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]
39	1282.2	1261.3	0.7408	0.7464	1.4927	2717.2	1689.9	1708.9
38	1297.4	1276.5	0.7463	0.7520	1.5039	2534.7	1697.6	1718.5
38	1312.6	1291.7	0.7523	0.7580	1.5159	2440.2	1704.2	1726.5
38	1327.9	1307.0	0.7586	0.7642	1.5284	2631.7	1710.2	1733.6
38	1343.1	1322.2	0.7643	0.7700	1.5400	2621.4	1717.1	1742.0
37	1358.4	1337.5	0.7701	0.7758	1.5516	2707.9	1723.9	1750.3
37	1373.6	1352.7	0.7758	0.7814	1.5629	2775.6	1731.0	1759.0
37	1388.8	1367.9	0.7812	0.7869	1.5739	2786.8	1738.3	1768.2
37	1404.1	1383.2	0.7867	0.7924	1.5848	2786.1	1745.5	1777.2
36	1419.3	1398.4	0.7921	0.7979	1.5957	2802.0	1752.7	1786.0
36	1434.5	1413.6	0.7976	0.8033	1.6066	2896.3	1759.8	1794.9
36	1449.8	1428.9	0.8028	0.8086	1.6171	2724.3	1767.2	1804.2
36	1465.0	1444.1	0.8084	0.8142	1.6283	3046.1	1773.7	1812.1
35	1480.3	1459.4	0.8134	0.8192	1.6384	2999.7	1781.5	1822.2
35	1495.5	1474.6	0.8184	0.8243	1.6485	2862.5	1789.0	1831.8
35	1510.8	1489.9	0.8238	0.8296	1.6592	2558.8	1795.9	1840.2
7	1514.2	1493.3	0.8232	0.8291	1.6582	2558.8	1795.9	1840.2
35	1526.0	1505.1	0.8297	0.8355	1.6711	2608.0	1801.4	1846.4
7	1529.5	1508.6	0.8292	0.8350	1.6700	2608.0	1801.4	1846.4
34	1541.2	1520.3	0.8355	0.8414	1.6828	2690.1	1807.0	1852.7
7	1544.7	1523.8	0.8351	0.8409	1.6818	2690.1	1807.0	1852.7
34	1556.5	1535.6	0.8412	0.8470	1.6941	2753.7	1812.9	1859.6
7	1560.0	1539.1	0.8407	0.8466	1.6931	2753.7	1812.9	1859.6
34	1571.7	1550.8	0.8467	0.8526	1.7052	2702.3	1819.0	1866.8
34	1587.0	1566.1	0.8523	0.8582	1.7164	2620.9	1824.8	1873.5
33	1602.2	1581.3	0.8581	0.8640	1.7281	2639.0	1830.1	1879.5
33	1617.4	1596.5	0.8639	0.8698	1.7396	2662.7	1835.5	1885.5
33	1632.7	1611.8	0.8696	0.8755	1.7511	2698.0	1840.9	1891.7
33	1647.9	1627.0	0.8752	0.8812	1.7624	2709.6	1846.4	1897.9
32	1663.2	1642.3	0.8809	0.8868	1.7736	2722.0	1851.9	1904.2
32	1678.4	1657.5	0.8865	0.8924	1.7848	2796.8	1857.3	1910.4
32	1693.6	1672.7	0.8919	0.8979	1.7957	2746.4	1863.0	1917.0

Stack Summary Listing (3/5) 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]
32	1708.9	1688.0	0.8974	0.9034	1.8068	2585.5	1868.5	1923.2
31	1724.1	1703.2	0.9033	0.9093	1.8186	2820.1	1873.1	1928.2
31	1739.4	1718.5	0.9087	0.9147	1.8294	2692.5	1878.7	1934.7
9	1745.7	1724.8	0.9100	0.9160	1.8321	2692.5	1878.7	1934.7
31	1754.6	1733.7	0.9144	0.9204	1.8407	2782.9	1883.7	1940.3
9	1760.9	1740.0	0.9156	0.9216	1.8431	2782.9	1883.7	1940.3
31	1769.9	1748.9	0.9198	0.9258	1.8517	3058.3	1889.0	1946.3
9	1776.1	1755.2	0.9211	0.9271	1.8542	3058.3	1889.0	1946.3
30	1784.9	1764.0	0.9247	0.9308	1.8615	2657.1	1895.2	1953.9
9	1791.4	1770.5	0.9266	0.9326	1.8653	2657.1	1895.2	1953.9
30	1800.2	1779.2	0.9305	0.9365	1.8730	2691.8	1899.9	1958.9
30	1815.4	1794.5	0.9361	0.9422	1.8843	2824.3	1904.6	1964.2
30	1830.6	1809.7	0.9415	0.9476	1.8951	2698.8	1909.9	1970.1
29	1846.0	1825.1	0.9472	0.9533	1.9065	2840.3	1914.6	1975.3
29	1861.3	1840.4	0.9526	0.9586	1.9173	2792.0	1919.8	1981.2
29	1876.5	1855.6	0.9580	0.9641	1.9282	2820.6	1924.7	1986.7
29	1891.8	1870.9	0.9634	0.9695	1.9390	3172.3	1929.7	1992.3
28	1907.0	1886.1	0.9682	0.9743	1.9486	3056.1	1935.8	1999.8
28	1922.2	1901.3	0.9732	0.9793	1.9586	3058.1	1941.6	2006.6
28	1937.5	1916.6	0.9782	0.9843	1.9685	3000.8	1947.2	2013.3
28	1952.7	1931.8	0.9832	0.9893	1.9787	3311.2	1952.6	2019.6
27	1968.0	1947.1	0.9878	0.9940	1.9879	3018.1	1958.9	2027.5
27	1983.2	1962.3	0.9929	0.9990	1.9980	3374.5	1964.3	2033.7
27	1998.5	1977.5	0.9974	1.0035	2.0070	3315.5	1970.6	2041.8
27	2013.7	1992.8	1.0020	1.0081	2.0162	2976.7	1976.7	2049.4
26	2028.9	2008.0	1.0071	1.0132	2.0265	3264.9	1981.8	2055.1
26	2044.2	2023.3	1.0118	1.0179	2.0358	3171.5	1987.7	2062.3
26	2059.4	2038.5	1.0165	1.0227	2.0454	3188.7	1993.2	2068.9
26	2074.7	2053.7	1.0213	1.0275	2.0550	3058.0	1998.8	2075.5
25	2089.9	2069.0	1.0263	1.0325	2.0649	3756.0	2003.9	2081.3
25	2105.1	2084.2	1.0303	1.0365	2.0730	3598.5	2010.8	2090.5
25	2120.4	2099.4	1.0346	1.0408	2.0815	3393.0	2017.2	2098.8

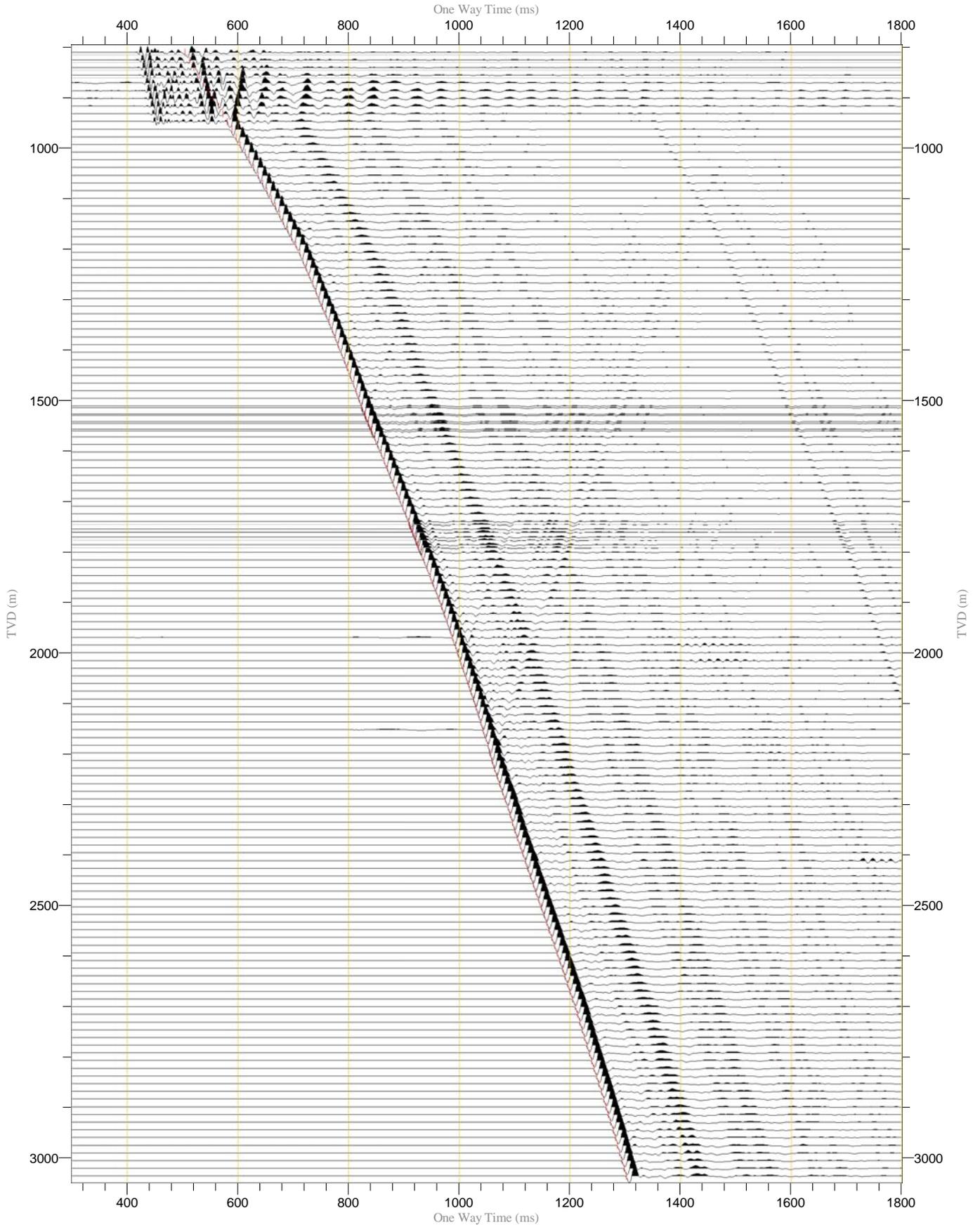
Stack Summary Listing (4/5) from VSI_001_A_geo_wavefield_z.ldb

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]
25	2135.6	2114.7	1.0390	1.0452	2.0905		2023.1	2106.1
						3678.1		
24	2150.8	2129.9	1.0432	1.0494	2.0988		2029.7	2114.6
						3434.9		
24	2166.1	2145.2	1.0476	1.0538	2.1077		2035.6	2121.9
						3581.8		
24	2181.3	2160.4	1.0519	1.0581	2.1162		2041.8	2129.8
						4001.0		
24	2196.5	2175.6	1.0557	1.0619	2.1238		2048.8	2139.4
						3937.7		
23	2211.8	2190.9	1.0595	1.0658	2.1315		2055.7	2148.7
						3555.8		
23	2227.1	2206.1	1.0638	1.0701	2.1401		2061.7	2156.1
						3305.0		
23	2242.3	2221.4	1.0684	1.0747	2.1493		2067.0	2162.4
						3198.8		
23	2257.5	2236.6	1.0732	1.0794	2.1589		2072.0	2168.0
						3126.6		
22	2272.8	2251.9	1.0780	1.0843	2.1686		2076.8	2173.3
						3086.2		
22	2288.0	2267.1	1.0830	1.0892	2.1785		2081.4	2178.3
						3218.2		
22	2303.2	2282.3	1.0877	1.0940	2.1879		2086.3	2183.8
						3519.6		
22	2318.5	2297.6	1.0920	1.0983	2.1966		2091.9	2190.7
						3757.3		
21	2333.7	2312.8	1.0961	1.1024	2.2047		2098.1	2198.5
						3566.2		
21	2349.0	2328.0	1.1003	1.1066	2.2133		2103.7	2205.4
						3200.2		
21	2364.2	2343.3	1.1051	1.1114	2.2228		2108.4	2210.7
						3184.2		
21	2379.4	2358.5	1.1099	1.1162	2.2324		2113.0	2215.7
						3197.1		
20	2394.7	2373.7	1.1146	1.1209	2.2419		2117.6	2220.8
						3173.5		
20	2409.9	2389.0	1.1194	1.1257	2.2515		2122.1	2225.8
						3288.0		
20	2425.1	2404.2	1.1241	1.1304	2.2608		2126.9	2231.1
						3061.7		
20	2440.4	2419.5	1.1290	1.1354	2.2707		2131.0	2235.5
						3280.3		
19	2455.7	2434.8	1.1337	1.1400	2.2800		2135.7	2240.7
						3255.8		
19	2470.9	2450.0	1.1384	1.1447	2.2894		2140.3	2245.8
						3142.5		
19	2486.2	2465.2	1.1432	1.1496	2.2991		2144.5	2250.3
						3185.8		
19	2501.4	2480.5	1.1480	1.1543	2.3087		2148.8	2255.0
						2950.8		
18	2516.6	2495.7	1.1531	1.1595	2.3190		2152.4	2258.6
						3177.8		
18	2531.8	2510.9	1.1579	1.1643	2.3286		2156.6	2263.1
						3292.1		
18	2547.1	2526.2	1.1626	1.1689	2.3378		2161.1	2268.1
						3237.0		
18	2562.3	2541.4	1.1673	1.1736	2.3472		2165.4	2272.8
						3190.5		
17	2577.6	2556.6	1.1720	1.1784	2.3568		2169.6	2277.3
						3151.9		
17	2592.8	2571.9	1.1769	1.1832	2.3665		2173.6	2281.6
						3183.6		
17	2608.1	2587.1	1.1817	1.1880	2.3760		2177.7	2285.9
						3194.0		

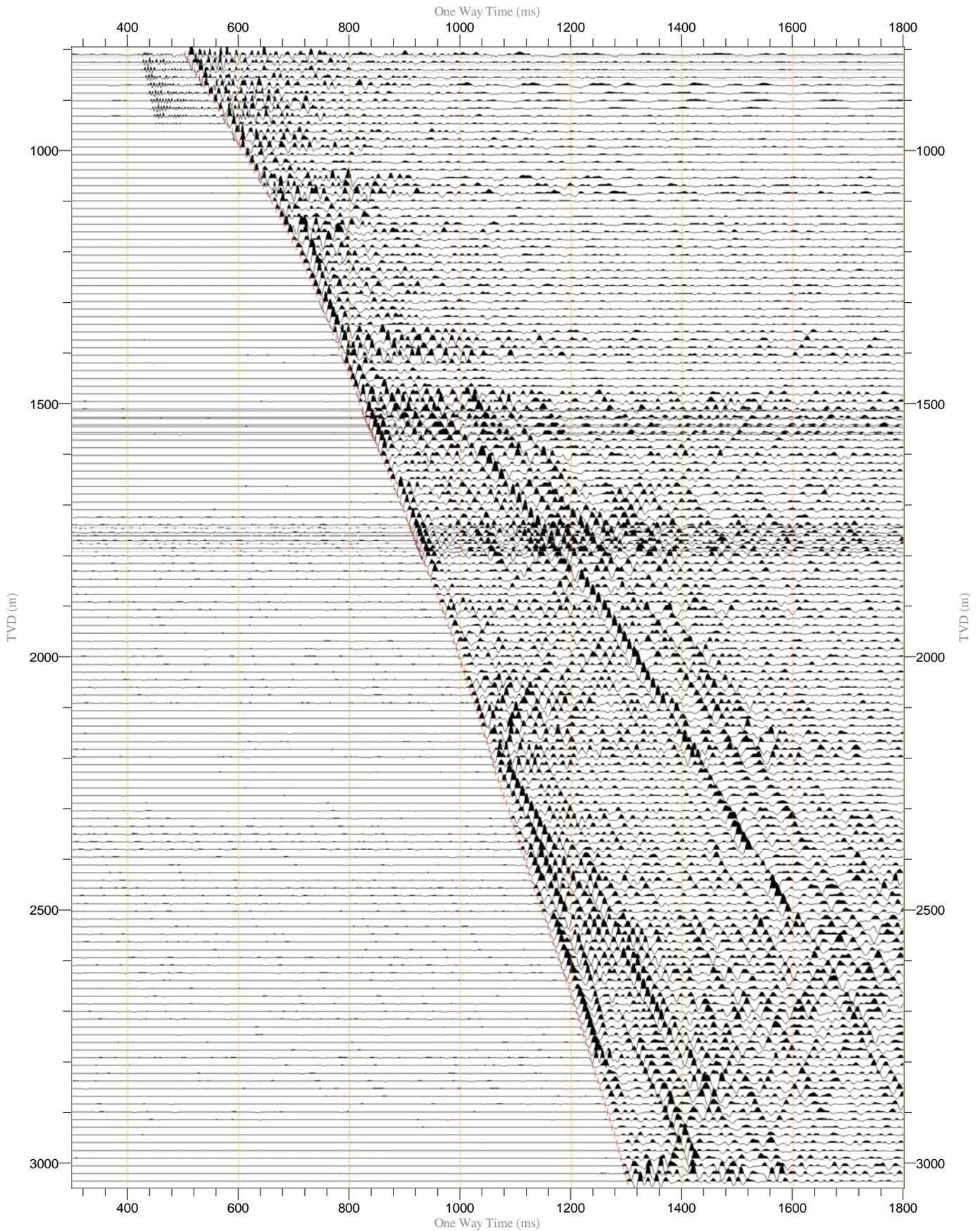
Stack Summary Listing (5/5) from VSI_001_A_geo_wavefield_z.ldb

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]
17	2623.3	2602.4	1.1864	1.1928	2.3856		2181.8	2290.3
						3627.0		
16	2638.5	2617.6	1.1906	1.1970	2.3940		2186.8	2296.3
						3112.0		
16	2653.8	2632.8	1.1955	1.2019	2.4038		2190.6	2300.2
						3254.8		
16	2669.0	2648.1	1.2002	1.2066	2.4131		2194.7	2304.7
						3287.4		
16	2684.2	2663.3	1.2048	1.2112	2.4224		2198.9	2309.3
						3084.7		
15	2699.5	2678.6	1.2098	1.2161	2.4323		2202.5	2312.9
						3592.5		
15	2714.7	2693.8	1.2140	1.2204	2.4408		2207.3	2318.6
						3792.0		
15	2730.0	2709.0	1.2180	1.2244	2.4488		2212.5	2325.0
						3621.7		
15	2745.2	2724.3	1.2222	1.2286	2.4572		2217.4	2330.6
						3735.3		
14	2760.4	2739.5	1.2263	1.2327	2.4654		2222.4	2336.7
						3563.3		
14	2775.7	2754.7	1.2306	1.2370	2.4739		2227.0	2342.0
						3676.8		
14	2790.9	2770.0	1.2347	1.2411	2.4822		2231.9	2347.8
						3694.3		
14	2806.2	2785.2	1.2388	1.2452	2.4905		2236.7	2353.5
						3365.3		
13	2821.4	2800.5	1.2434	1.2498	2.4995		2240.8	2357.9
						3347.1		
13	2836.7	2815.7	1.2479	1.2543	2.5086		2244.8	2362.3
						3563.5		
13	2851.9	2831.0	1.2522	1.2586	2.5172		2249.3	2367.4
						3388.8		
13	2867.1	2846.2	1.2567	1.2631	2.5262		2253.4	2371.8
						3751.6		
12	2882.4	2861.4	1.2607	1.2672	2.5343		2258.1	2377.5
						3520.2		
12	2897.6	2876.7	1.2650	1.2715	2.5430		2262.4	2382.3
						3586.1		
12	2912.8	2891.9	1.2693	1.2757	2.5515		2266.9	2387.3
						3502.8		
12	2928.1	2907.1	1.2736	1.2801	2.5602		2271.1	2392.0
						3631.1		
11	2943.3	2922.4	1.2778	1.2843	2.5686		2275.5	2397.1
						3438.1		
11	2958.6	2937.6	1.2823	1.2887	2.5774		2279.5	2401.5
						4099.0		
11	2973.8	2952.9	1.2860	1.2924	2.5849		2284.7	2408.1
						3925.8		
11	2989.0	2968.1	1.2899	1.2963	2.5926		2289.6	2414.0
						3815.8		
10	3004.3	2983.4	1.2939	1.3003	2.6006		2294.3	2419.6
						3785.2		
10	3019.5	2998.6	1.2979	1.3043	2.6087		2298.9	2425.0
						3768.3		
10	3034.8	3013.8	1.3019	1.3084	2.6168		2303.5	2430.3
						3445.2		
10	3050.0	3029.1	1.3063	1.3128	2.6256		2307.3	2434.4

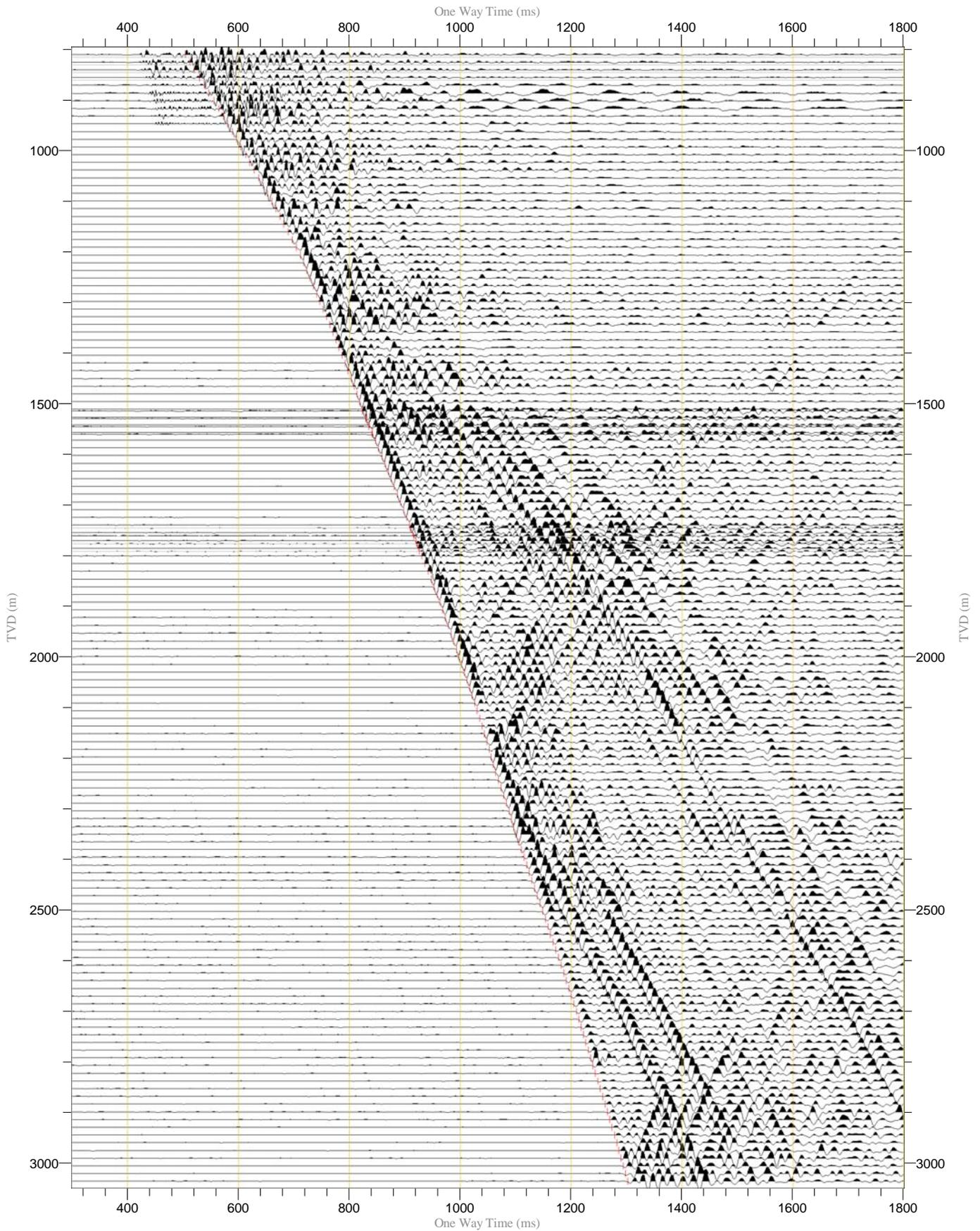
Raw Stack (Z)	Normalization Trace by Trace (150%) Polarity Normal One Way Time (ms) Scaling 10.4 cm/sec. 1/10470	
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Raw Stack (X)	Normalization Trace by Trace (150%) Polarity Normal One Way Time (ms) Scaling 10.4 cm/sec. 1/10470	
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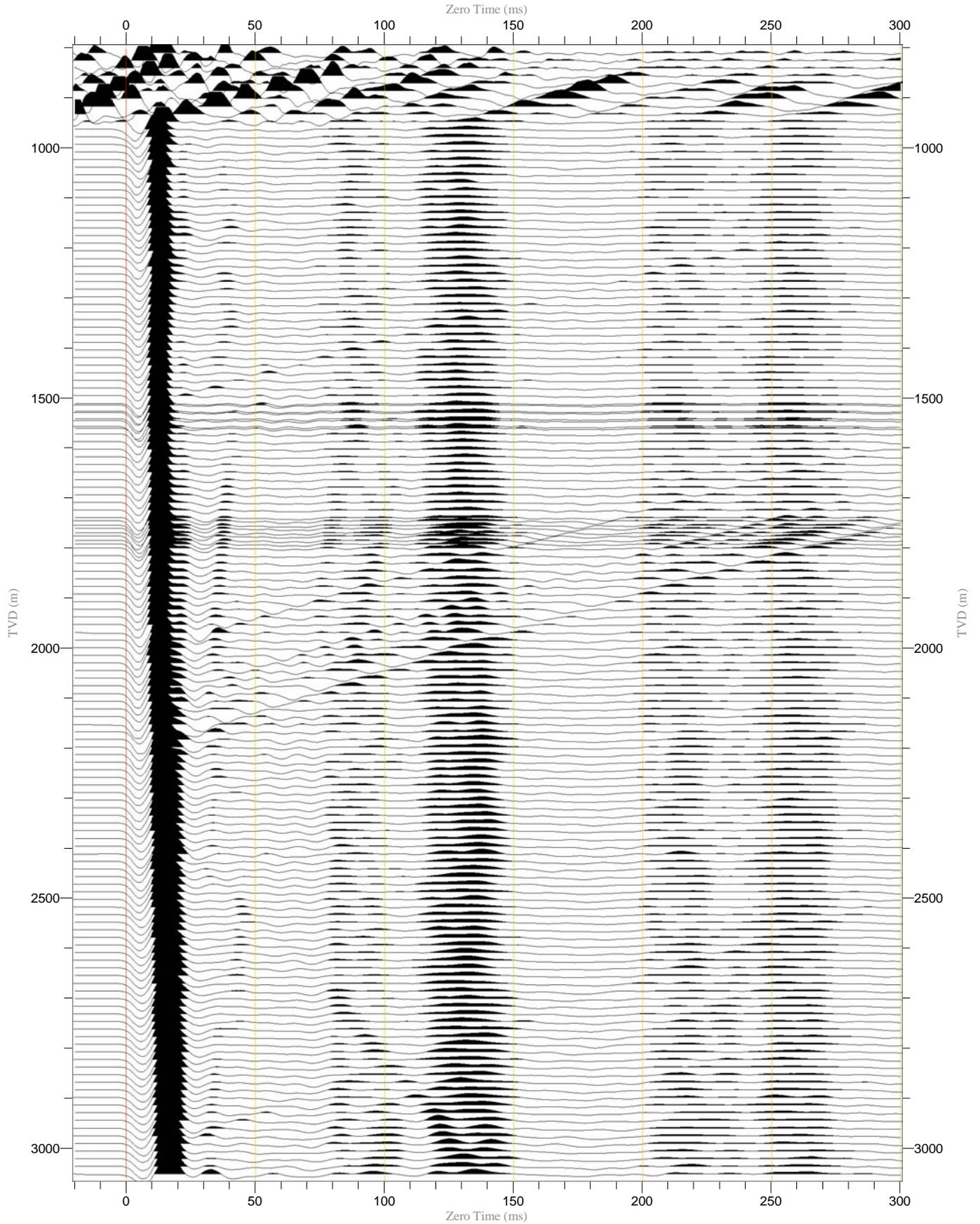


Raw Stack (Y)	Normalization Trace by Trace (150%) Polarity Normal One Way Time (ms) Scaling 10.4 cm/sec. 1/10470	
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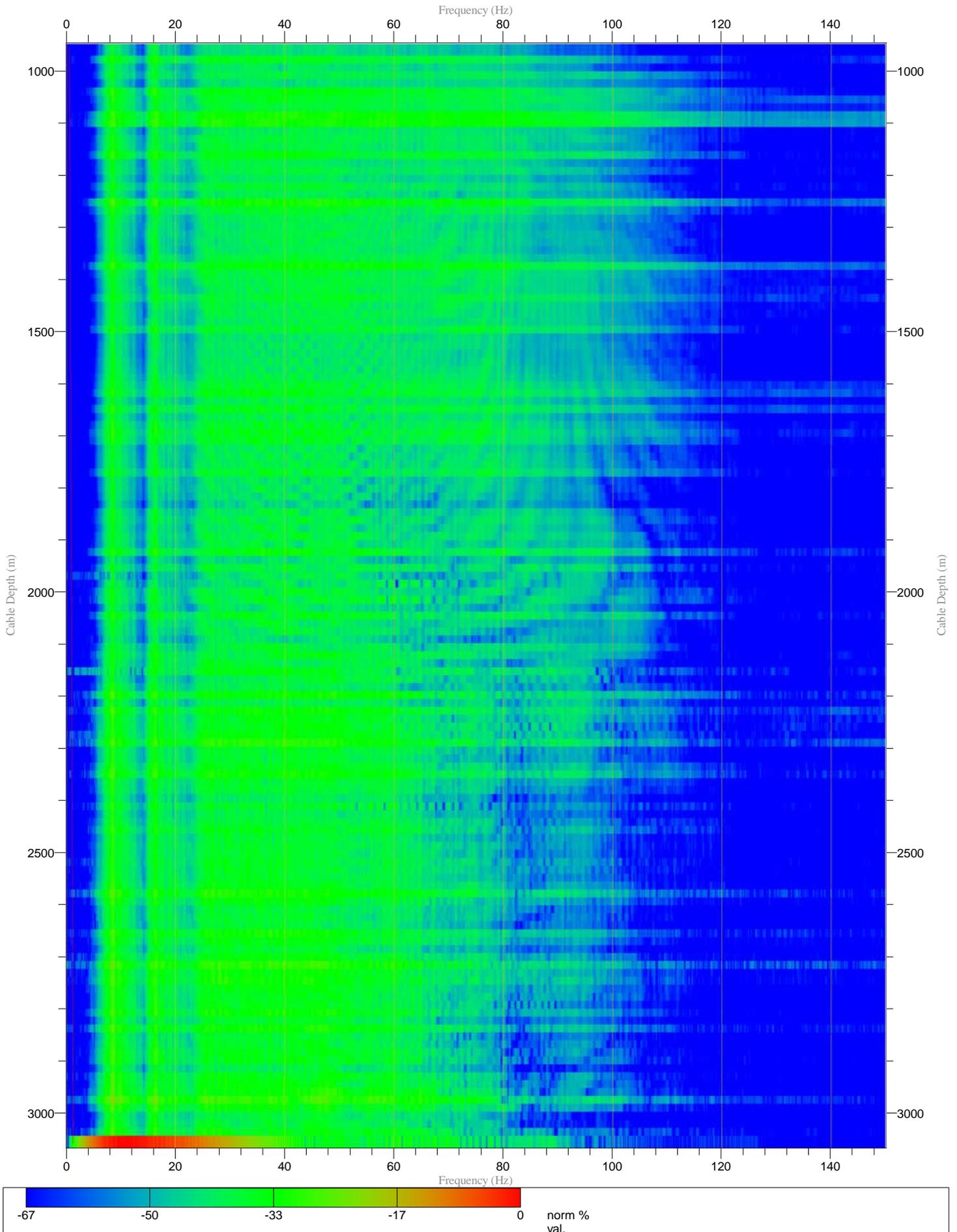
Raw Stack (Z) (Magnified)

Normalization Trace by Trace (250%)
Polarity Normal
Zero Time (ms)
Scaling 48.5 cm/sec, 1/10560



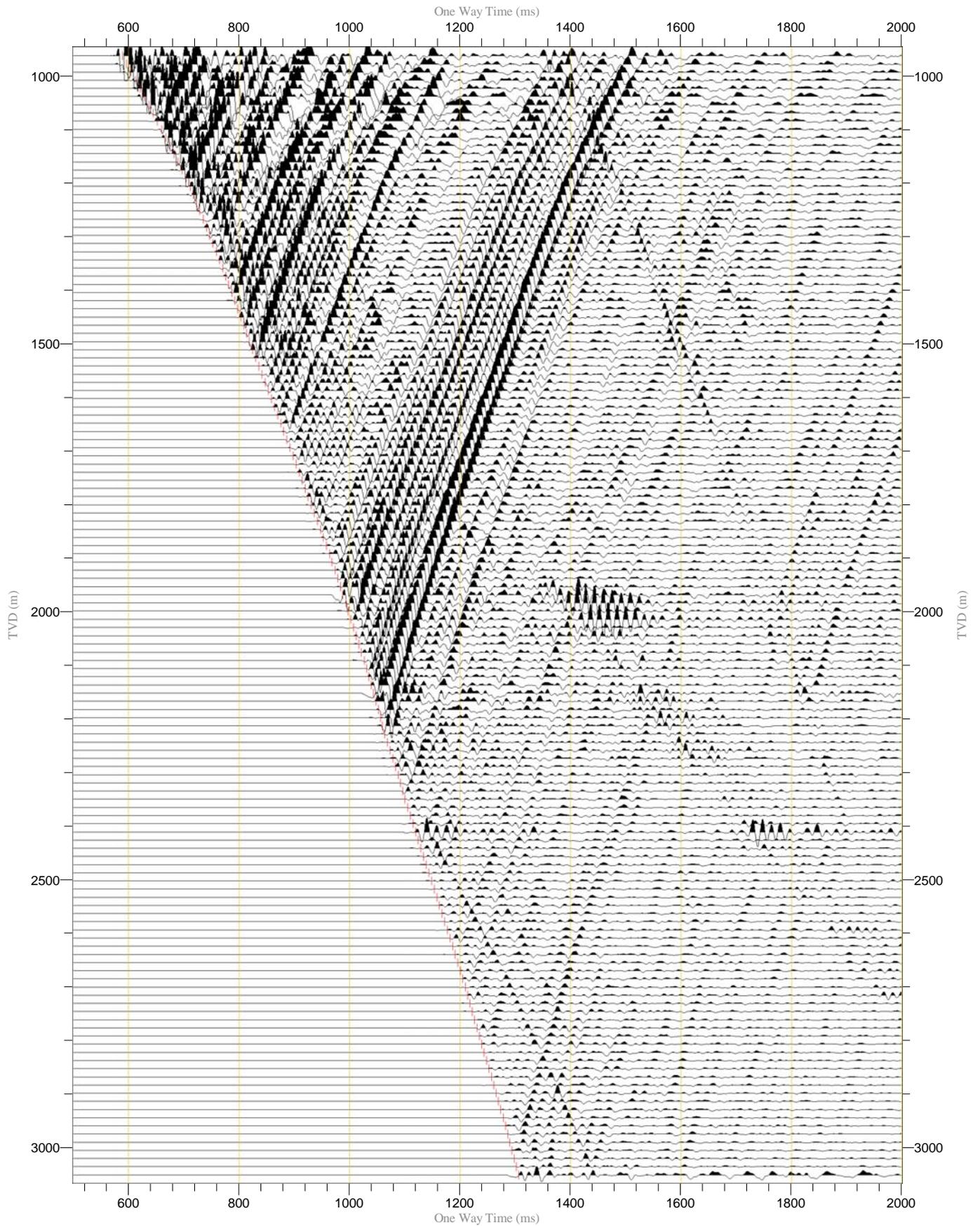
VSP Raw Stack (Z) FZ
Apply FZ

Normalization Trace by Trace (100%)
Polarity Normal
Frequency (Hz)
Scaling 0.1 cm/Hz, 1/9040



VSP Upgoing
BPF 3.0 - 110.0Hz
9 Traces

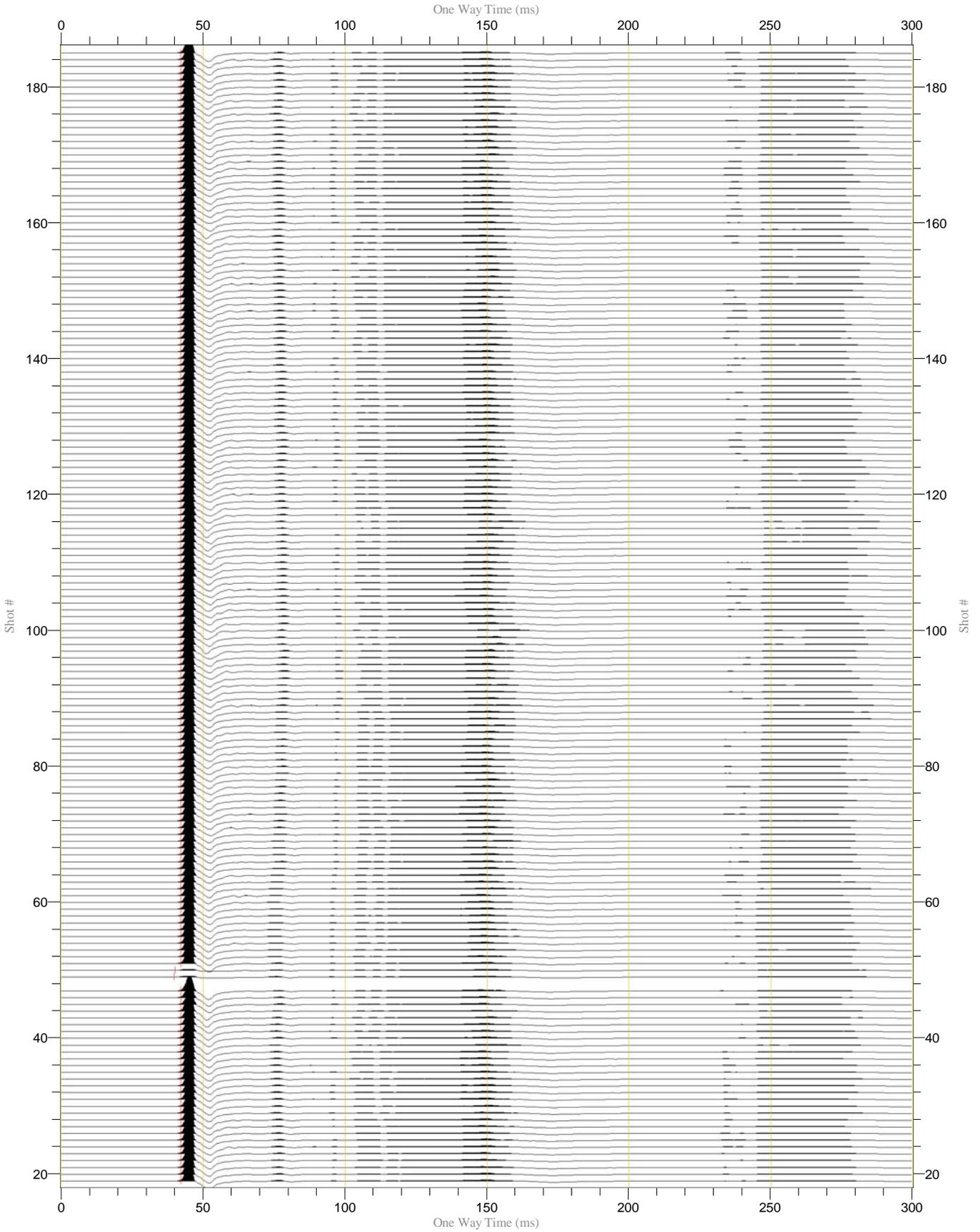
Normalization Largest Trace in Gather (18x)
Polarity Normal
One Way Time (ms)
Scaling 10.4 cm/sec. 1/9850



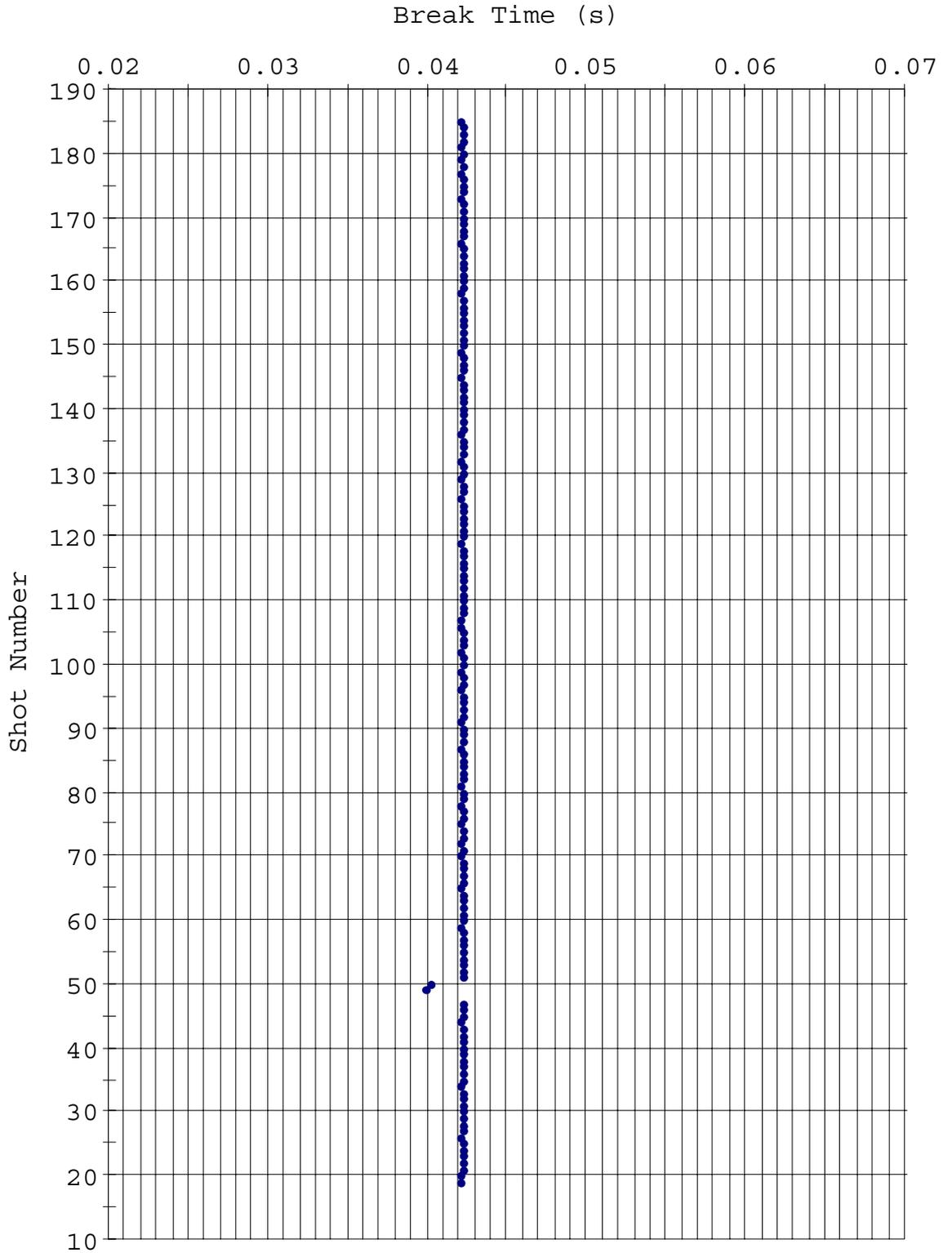
Source Signature QC Report

Source Sensor Signature

Normalization Largest Trace in Gather (250%)
Polarity Normal
One Way Time (ms)
Scaling 52.97 cm/sec, 7.82/cm

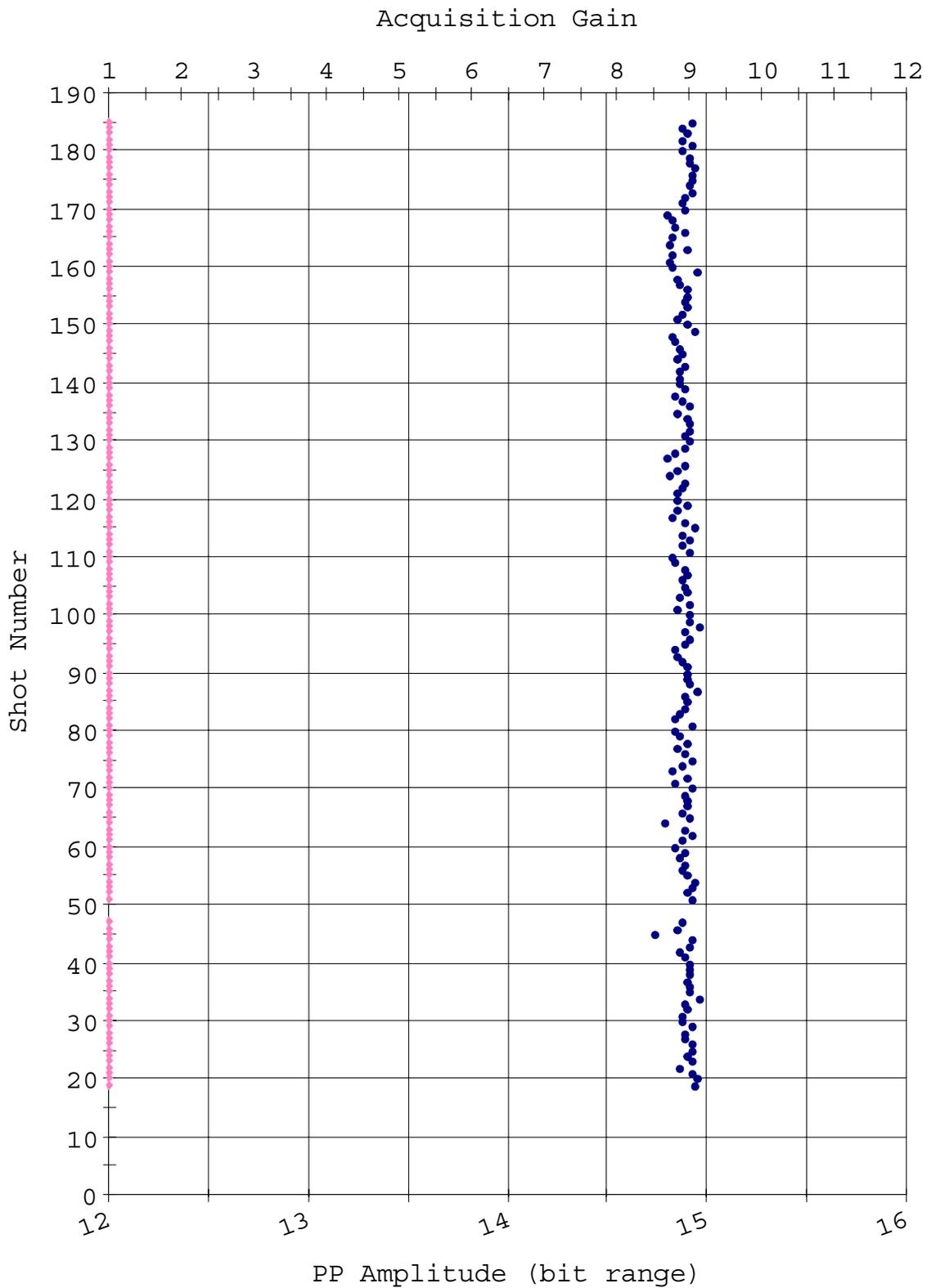


Surface Sensor QC Plot Page



• Surface Sensor Break Time

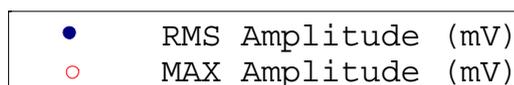
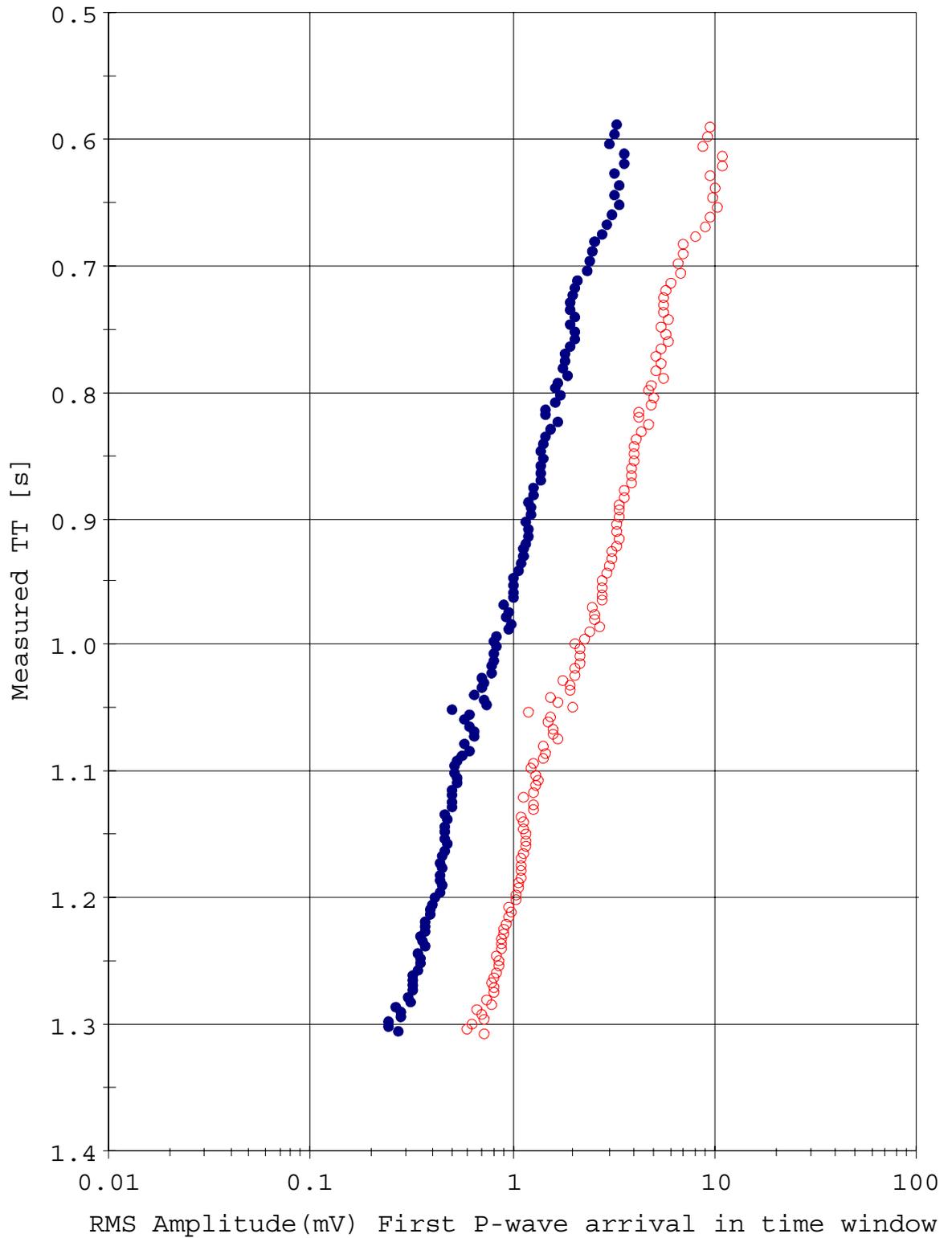
Amplitude QC Plot (Surface)



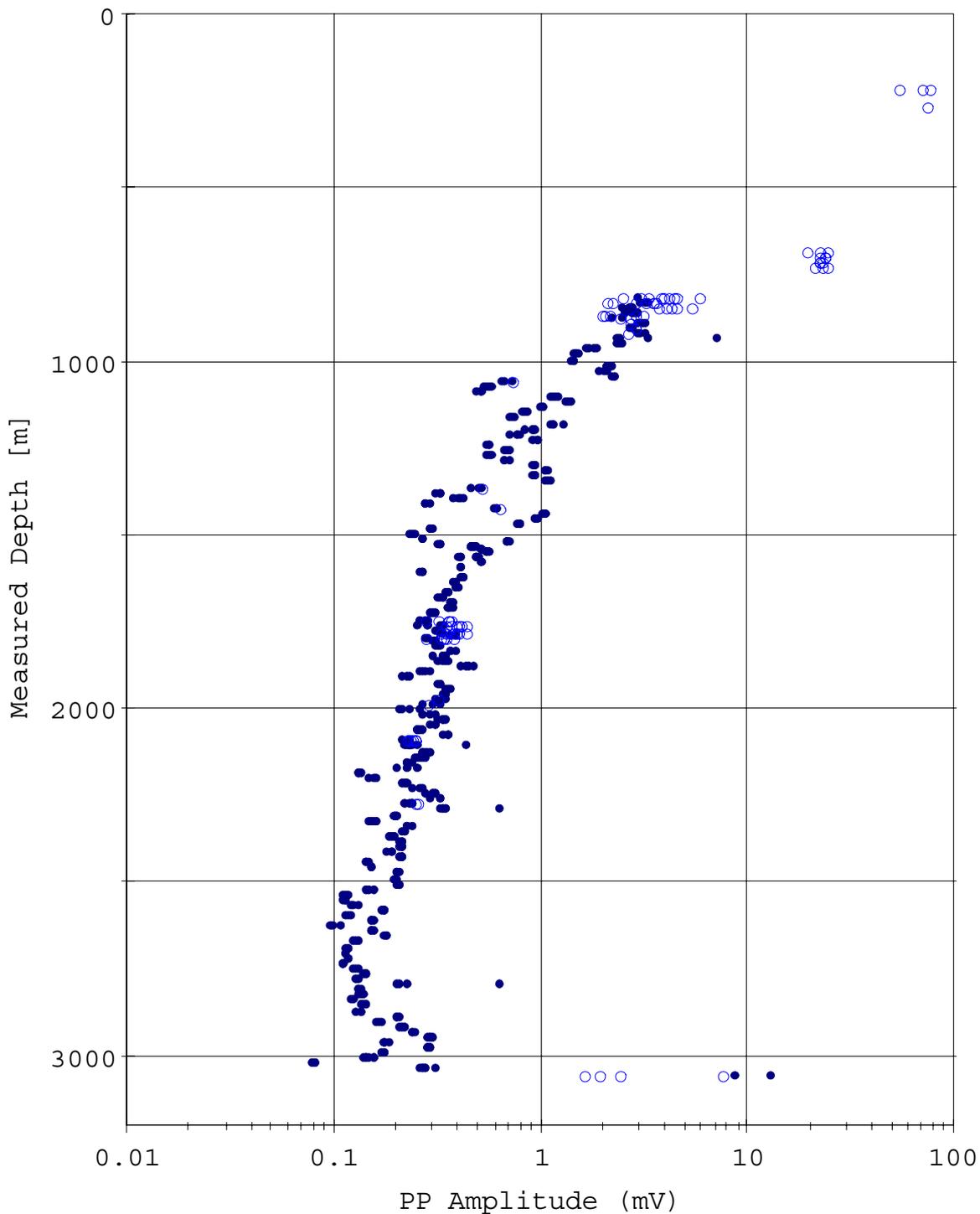
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- PP Amplitude (bit range) rejected
- ◆ Acquisition Gain

Amplitude QC Report

RMS amplitude Plot

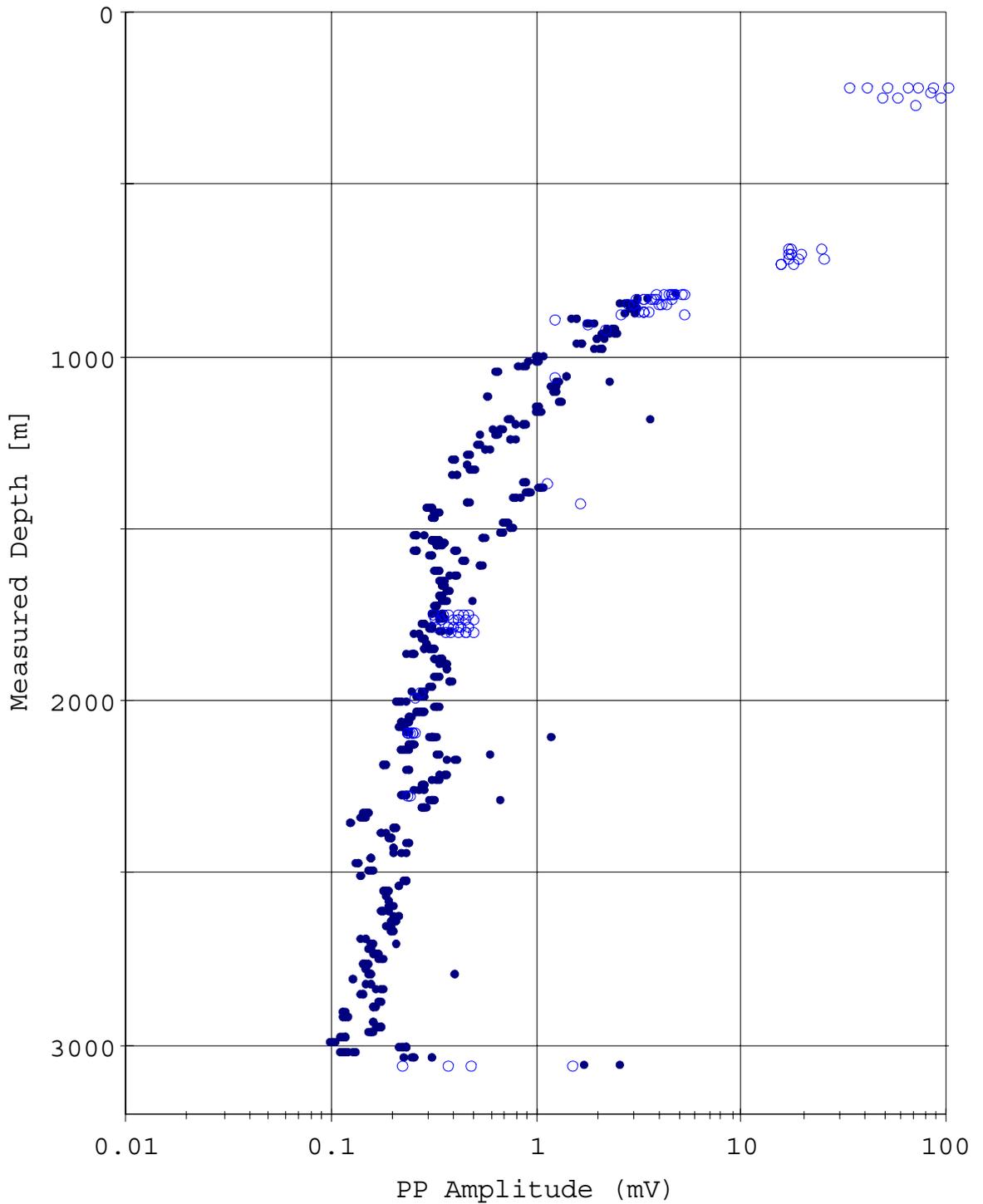


Peak To Peak Plot (X)



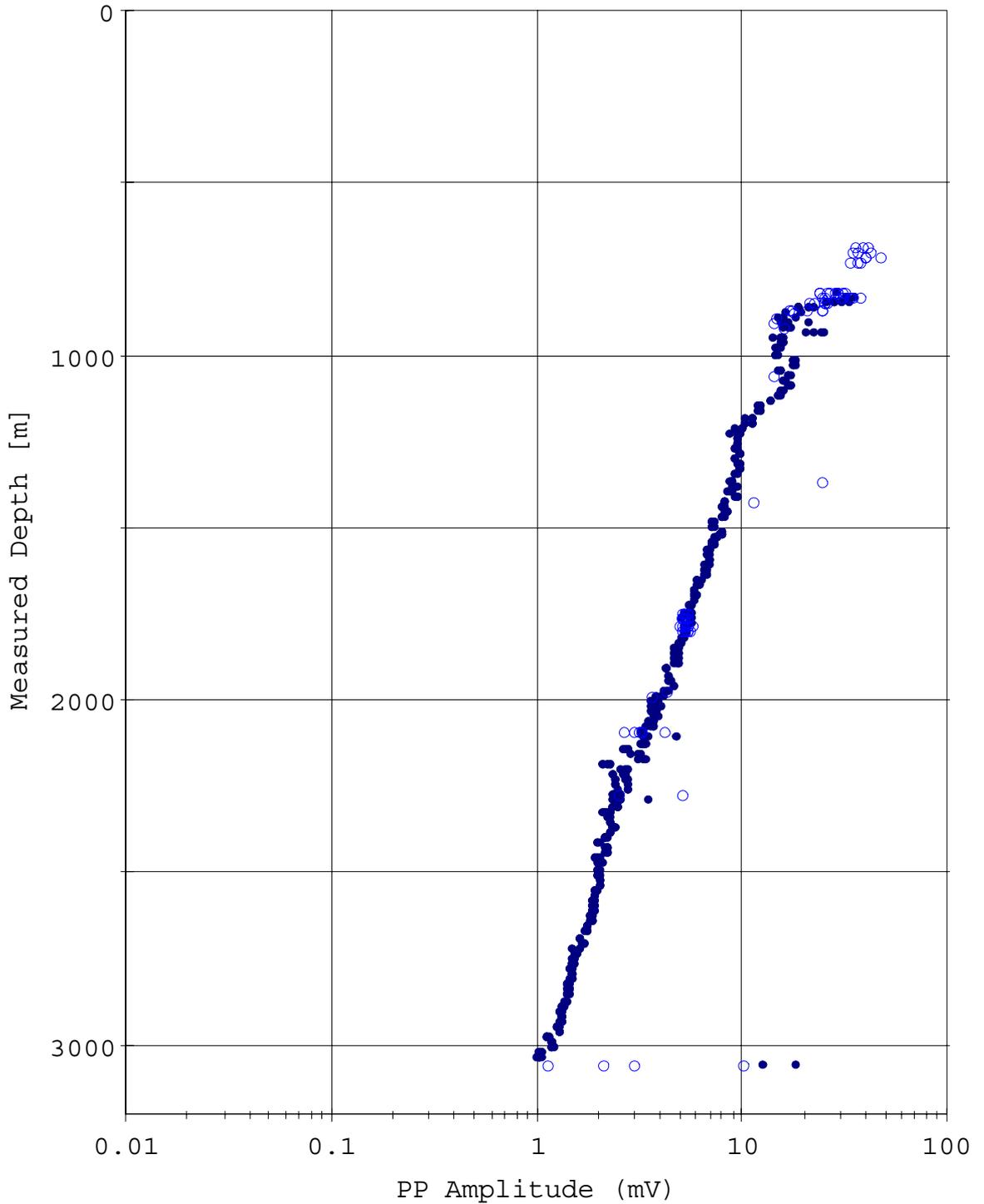
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- PP Amplitude (mV) rejected

Peak To Peak Plot (Y)



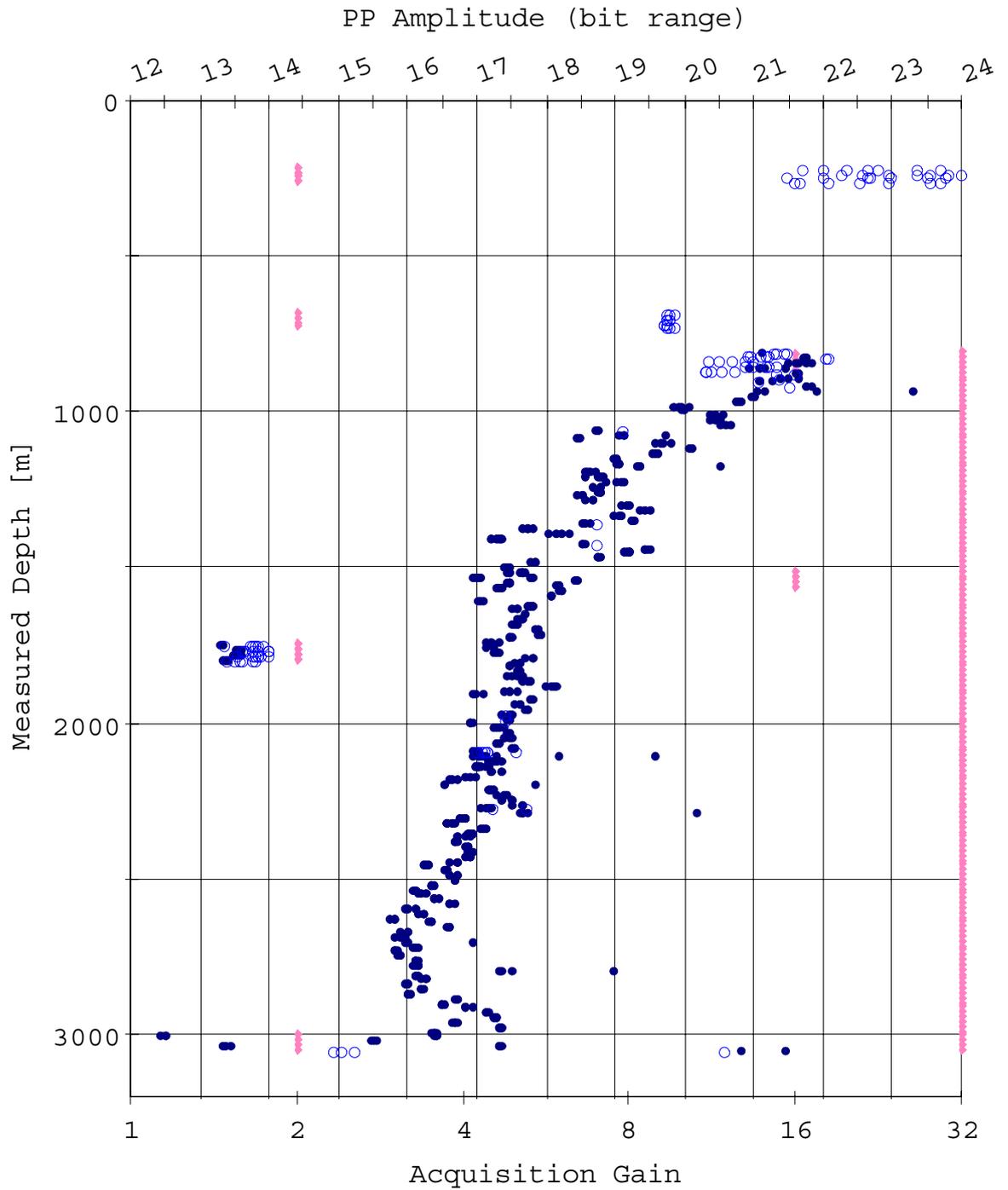
- PP Amplitude (mV) accepted for stack
- PP Amplitude (mV) rejected

Peak To Peak Plot (Z)



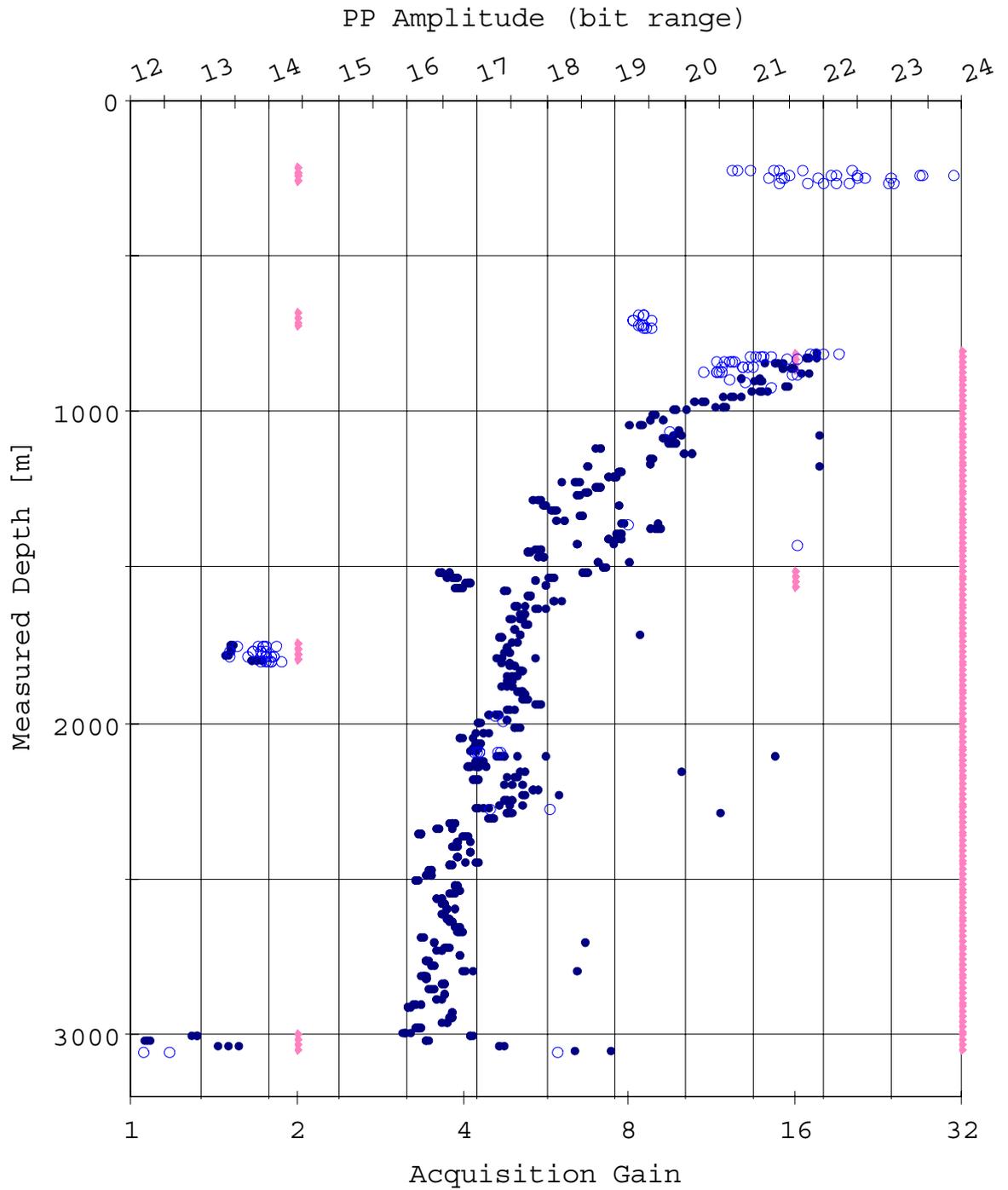
- PP Amplitude (mV) accepted for stack
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Amplitude QC Plot (X)



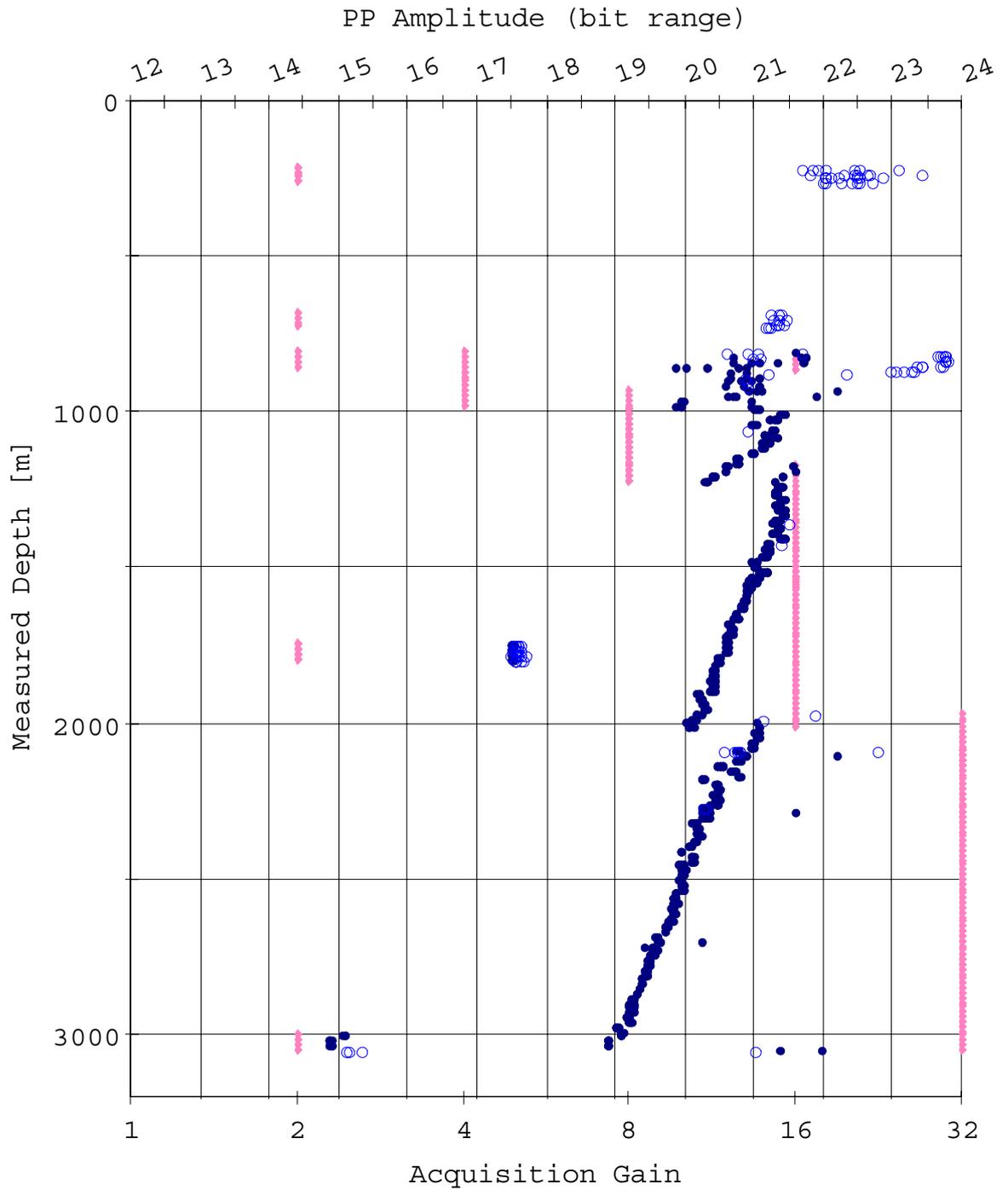
- PP Amplitude (bit range) accepted for stack
- PP Amplitude (bit range) rejected
- ◆ Acquisition Gain

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

Shot and Observer Report

Shot Summary Listing (1/7)

Measured Depth [m]	Tool Number	Stack Number	Relative Bearing [deg]	Caliper [in]	Anchoring force [kg]	Shot number
214.4	1	4	83.0	15.3	913.5	24
229.7	2	4	31.3	15.3	928.1	24
244.9	3	4	56.4	15.4	924.0	23
260.1	4	4	47.6	15.3	957.9	24
681.5	1	5	59.8	13.2	859.7	28
696.7	2	5	21.4	13.2	895.3	27
711.9	3	5	-17.1	13.2	845.7	27
727.2	4	5	-21.6	13.1	891.1	27
809.7	1	46	-0.6	13.2	844.4	182
814.9	1	6	59.4	13.2	869.3	29, 31
825.0	2	46	23.3	13.1	847.7	181, 182, 184
830.1	2	6	6.8	13.1	884.1	29, 30, 31, 33
840.2	3	46	6.2	13.3	841.6	181, 182, 183, 184, 185
845.4	3	6	-21.8	13.2	850.9	30, 33
855.4	4	46	26.8	13.2	841.2	181, 182, 183, 184, 185
860.6	4	6	-21.7	13.1	889.2	29, 30, 32, 33
870.7	1	45	1.5	13.2	830.1	178, 180
885.9	2	45	23.2	13.1	831.8	177, 179, 180
901.2	3	45	7.7	13.3	814.9	177, 179, 180
916.4	4	45	20.3	13.2	848.7	177, 179, 180
931.7	1	44	1.0	13.2	825.0	173, 174, 175, 176
946.9	2	44	22.3	13.1	837.8	173, 174, 175, 176
962.1	3	44	3.2	13.3	832.4	173, 174, 175, 176
977.4	4	44	20.7	13.2	863.4	173, 174, 175, 176
992.5	1	43	-7.3	13.2	811.6	170, 171, 172
1007.8	2	43	22.3	13.1	849.2	170, 171, 172
1023.0	3	43	4.1	13.3	841.6	170, 171, 172
1038.3	4	43	19.2	13.2	841.6	170, 171, 172

Shot Summary Listing (2/7)

Measured Depth [m]	Tool Number	Stack Number	Relative Bearing [deg]	Caliper [in]	Anchoring force [kg]	Shot number
1053.6	1	42	0.4	13.2	813.7	167, 168, 169

1068.8	2	42	21.7	13.1	852.1	166, 167, 168, 169
1084.1	3	42	2.9	13.3	828.3	166, 167, 168, 169
1099.3	4	42	19.2	13.2	856.0	166, 167, 168, 169
1114.5	1	41	2.3	13.2	813.6	163, 164, 165
1129.8	2	41	21.8	13.1	860.7	163, 164, 165
1145.0	3	41	0.4	13.3	821.0	163, 164, 165
1160.2	4	41	19.1	13.2	836.3	163, 164, 165
1175.5	1	40	6.7	13.2	833.5	159, 160, 161, 162
1190.7	2	40	21.8	13.0	876.5	159, 160, 161, 162
1206.0	3	40	2.2	13.3	823.1	159, 160, 161, 162
1221.2	4	40	18.9	13.2	856.6	159, 160, 161, 162
1236.5	1	39	-4.4	13.2	829.4	156, 157, 158
1251.7	2	39	21.7	13.1	875.8	156, 157, 158
1266.9	3	39	2.2	13.3	815.2	156, 157, 158
1282.2	4	39	18.6	13.2	857.5	156, 157, 158
1297.4	1	38	3.5	13.2	801.9	153, 154, 155
1312.6	2	38	21.8	13.1	836.9	153, 154, 155
1327.9	3	38	4.1	13.3	838.5	153, 154, 155
1343.1	4	38	17.3	13.2	854.1	153, 154, 155
1358.4	1	37	5.8	13.2	806.6	149, 150, 152
1373.6	2	37	21.2	13.1	842.0	149, 150, 151, 152
1388.8	3	37	5.1	13.3	840.1	149, 150, 151, 152
1404.1	4	37	17.9	13.2	855.9	149, 150, 151, 152
1419.3	1	36	6.2	13.3	592.2	146, 147, 148
1434.5	2	36	20.9	13.1	857.5	145, 146, 147, 148
1449.8	3	36	6.1	13.3	832.5	145, 146, 147, 148
1465.0	4	36	16.4	13.2	879.1	145, 146, 147, 148

Shot Summary Listing (3/7)

Measured Depth [m]	Tool Number	Stack Number	Relative Bearing [deg]	Caliper [in]	Anchoring force [kg]	Shot number
1480.3	1	35	21.8	13.2	829.9	142, 143, 144
1495.5	2	35	20.3	13.1	829.3	142, 143, 144
1510.8	3	35	4.6	13.2	801.2	142, 143, 144

1514.2	1	7	0.1	13.1	826.7	34, 35, 36, 37, 38
1526.0	4	35	16.3	13.2	853.7	142, 143, 144
1529.5	2	7	-45.9	13.1	869.8	34, 35, 36, 37, 38
1541.2	1	34	22.9	13.2	817.3	139, 140, 141
1544.7	3	7	-112.3	13.2	831.3	34, 35, 36, 37, 38
1556.5	2	34	19.9	13.1	861.2	139, 140, 141
1560.0	4	7	-90.8	13.1	898.1	34, 35, 36, 37, 38
1571.7	3	34	2.2	13.2	815.9	139, 140, 141
1587.0	4	34	14.9	13.2	855.2	139, 140, 141
1602.2	1	33	12.0	13.2	825.2	136, 137, 138
1617.4	2	33	14.1	13.1	830.3	136, 137, 138
1632.7	3	33	2.9	13.3	814.0	136, 137, 138
1647.9	4	33	15.1	13.2	853.3	136, 137, 138
1663.2	1	32	7.5	13.2	824.1	132, 133, 134, 135
1678.4	2	32	12.0	13.1	834.0	132, 133, 134, 135
1693.6	3	32	1.2	13.2	798.1	132, 133, 134, 135
1708.9	4	32	15.0	13.2	866.0	132, 133, 134, 135
1724.1	1	31	4.4	13.2	814.5	129, 130, 131
1739.4	2	31	11.8	13.1	834.4	129, 130, 131
1745.7	1	9	-12.7	13.1	815.8	39, 40, 41, 42, 43, 44, 45, 46, 47
1745.7	1	8	-20.3	13.1	817.3	39, 40, 41, 42, 43, 44, 45, 46, 47
1754.6	3	31	1.2	13.2	785.6	129, 130, 131
1760.9	2	9	-27.1	13.1	854.1	39, 40, 41, 42, 43, 44, 45, 46, 47
1760.9	2	8	-27.7	13.1	852.1	39, 40, 41, 42, 43, 44, 45, 46, 47
1769.9	4	31	14.0	13.2	871.3	129, 130, 131

Shot Summary Listing (4/7)

Measured Depth [m]	Tool Number	Stack Number	Relative Bearing [deg]	Caliper [in]	Anchoring force [kg]	Shot number
1776.1	3	9	27.3	13.2	769.7	39, 40, 41, 42, 43, 44, 45, 46, 47
1776.1	3	8	28.8	13.1	804.3	39, 40, 41, 42, 43, 44, 45, 46, 47
1784.9	1	30	-6.4	13.1	800.2	126, 127, 128
1791.4	4	9	-36.0	13.1	869.1	39, 40, 41, 42, 43, 44, 45, 46, 47
1791.4	4	8	-39.3	13.1	866.3	39, 40, 41, 42, 43, 44, 45, 46, 47

1800.2	2	30	11.7	13.1	821.3	126, 127, 128
1815.4	3	30	1.0	13.2	786.3	126, 127, 128
1830.6	4	30	21.3	13.1	855.9	126, 127, 128
1846.0	1	29	-1.9	13.1	799.5	122, 123, 124, 125
1861.3	2	29	11.8	13.1	847.4	122, 123, 124, 125
1876.5	3	29	-0.7	13.3	779.4	122, 123, 124, 125
1891.8	4	29	30.1	13.1	831.8	122, 123, 124, 125
1907.0	1	28	0.5	13.2	816.3	119, 120, 121
1922.2	2	28	10.9	13.0	844.6	119, 120, 121
1937.5	3	28	-1.2	13.3	778.9	119, 120, 121
1952.7	4	28	165.3	12.8	853.7	119, 120, 121
1968.0	1	27	-3.2	12.8	781.4	116, 117, 118
1983.2	2	27	6.4	12.7	824.6	116, 117, 118
1998.5	3	27	-5.3	12.9	817.6	115, 116, 117, 118
2013.7	4	27	170.4	12.8	846.2	115, 116, 117, 118
2028.9	1	26	24.1	12.8	781.6	111, 112, 113, 114
2044.2	2	26	6.1	12.8	841.2	111, 112, 113, 114
2059.4	3	26	-7.0	12.9	798.5	111, 112, 113, 114
2074.7	4	26	-100.2	12.8	832.5	111, 112, 113, 114
2089.9	1	25	23.9	12.8	777.2	106, 109, 110
2105.1	2	25	5.3	12.7	833.5	102, 103, 104, 105, 106, 107, 108, 109, 110
2120.4	3	25	-3.4	12.9	812.9	102, 103, 104, 105, 106, 107, 108, 109, 110
2135.6	4	25	-143.5	12.8	857.5	102, 103, 104, 105, 106, 107, 108, 109, 110

Shot Summary Listing (5/7)

Measured Depth [m]	Tool Number	Stack Number	Relative Bearing [deg]	Caliper [in]	Anchoring force [kg]	Shot number
2150.8	1	24	6.3	12.8	795.0	99, 100, 101
2166.1	2	24	30.2	12.8	786.0	99, 100, 101
2181.3	3	24	-3.3	12.9	802.3	99, 100, 101
2196.5	4	24	-151.9	12.7	795.1	99, 100, 101
2211.8	1	23	35.5	12.8	793.5	96, 97, 98
2227.1	2	23	31.5	12.8	832.9	96, 97, 98
2242.3	3	23	-3.0	12.9	803.5	96, 97, 98
2257.5	4	23	-157.0	12.8	840.4	96, 97, 98

2272.8	1	22	27.6	12.8	777.7	92, 93, 94, 95
2288.0	2	22	30.8	12.8	805.8	90, 91, 92, 93, 94, 95
2303.2	3	22	-4.4	12.9	784.1	90, 91, 92, 93, 94, 95
2318.5	4	22	-157.2	12.9	861.8	90, 91, 92, 93, 94, 95
2333.7	1	21	50.9	12.7	760.2	87, 88, 89
2349.0	2	21	32.7	12.7	798.0	87, 88, 89
2364.2	3	21	18.1	12.8	789.2	87, 88, 89
2379.4	4	21	-140.8	12.8	788.3	87, 88, 89
2394.7	1	20	-4.0	12.7	740.7	84, 85, 86
2409.9	2	20	9.0	12.8	784.8	84, 85, 86
2425.1	3	20	4.5	12.8	791.4	84, 85, 86
2440.4	4	20	-0.9	12.7	811.9	84, 85, 86
2455.7	1	19	-2.9	12.7	767.1	81, 82, 83
2470.9	2	19	9.4	12.7	811.6	81, 82, 83
2486.2	3	19	4.5	12.8	780.2	81, 82, 83
2501.4	4	19	2.1	12.8	825.6	81, 82, 83
2516.6	1	18	-5.3	12.7	765.3	78, 79, 80
2531.8	2	18	9.1	12.7	803.6	78, 79, 80
2547.1	3	18	4.6	13.0	711.1	78, 79, 80
2562.3	4	18	3.9	12.8	813.0	78, 79, 80

Shot Summary Listing (6/7)

Measured Depth [m]	Tool Number	Stack Number	Relative Bearing [deg]	Caliper [in]	Anchoring force [kg]	Shot number
2577.6	1	17	23.1	12.8	746.1	75, 76, 77
2592.8	2	17	0.2	12.7	749.0	75, 76, 77
2608.1	3	17	-5.2	12.9	745.8	75, 76, 77
2623.3	4	17	7.7	12.7	779.3	75, 76, 77
2638.5	1	16	7.0	12.7	756.4	72, 73, 74
2653.8	2	16	0.4	12.9	804.3	72, 73, 74
2669.0	3	16	5.4	12.9	765.9	72, 73, 74
2684.2	4	16	12.4	13.0	840.1	72, 73, 74
2699.5	1	15	-5.2	12.8	749.2	69, 70, 71
2714.7	2	15	-0.3	12.7	794.9	69, 70, 71

2730.0	3	15	4.5	12.8	758.7	69, 70, 71
2745.2	4	15	5.3	12.8	837.3	69, 70, 71
2760.4	1	14	4.0	12.8	741.2	65, 66, 67, 68
2775.7	2	14	15.4	12.7	762.3	65, 66, 67, 68
2790.9	3	14	8.2	13.1	740.3	65, 66, 67, 68
2806.2	4	14	5.2	13.0	812.0	65, 66, 67, 68
2821.4	1	13	3.9	13.0	730.6	62, 63, 64
2836.7	2	13	15.0	12.7	759.4	62, 63, 64
2851.9	3	13	7.9	12.9	744.1	62, 63, 64
2867.1	4	13	9.0	12.8	765.8	62, 63, 64
2882.4	1	12	-3.1	12.7	721.3	59, 60, 61
2897.6	2	12	15.3	12.7	756.6	59, 60, 61
2912.8	3	12	4.0	12.8	743.4	59, 60, 61
2928.1	4	12	3.7	12.8	811.3	59, 60, 61
2943.3	1	11	-8.0	12.8	728.2	55, 56, 57, 58
2958.6	2	11	14.9	12.7	747.0	55, 56, 57, 58
2973.8	3	11	4.7	12.8	749.9	55, 56, 57, 58
2989.0	4	11	13.1	12.8	807.1	55, 56, 57, 58

Shot Summary Listing (7/7)

Measured Depth [m]	Tool Number	Stack Number	Relative Bearing [deg]	Caliper [in]	Anchoring force [kg]	Shot number
3004.3	1	10	17.1	12.6	690.9	49, 50, 51, 52, 53, 54
3019.5	2	10	-11.0	12.2	771.9	49, 50, 51, 52, 53, 54
3034.8	3	10	-3.3	11.5	543.7	49, 50, 51, 52, 53, 54
3050.0	4	10	22.1	9.0	205.9	52, 54

Observer's Note (1/4)

Well depth [m]	Time	Shot Type	Shot#	Stack#	Source	Remarks
60.0	23:26:26	NOTO	2		A	Dummy Check to make sure Maxis is communicating with WSI
260.2	02:35:52	ENLO	5			Electrical noise test
260.2	02:36:27	ENHI	6			Electrical noise test
260.2	02:37:04	ETHD	7			Electrical distortion
260.2	02:37:26	DRNG	8			Test
260.2	02:37:42	DRNG	9			Test
260.2	02:38:32	GA02	10			Test
260.2	02:38:42	GA04	11			Test
260.2	02:38:52	GA08	12			Test
260.2	02:39:02	GA16	13			Test
260.2	02:39:12	GA32	14			Test
260.2	02:39:58	XTLK	15			Test
260.2	02:40:35	XTLK	16			Test
260.2	02:41:02	XTLK	17			Test
260.2	02:41:28	EIMP	18			Test
260.1	02:47:21	SHOT	19	4	A	
260.1	02:52:09	SHOT	20	4	A	
260.1	02:54:14	SHOT	21	4	A	
260.1	02:56:27	SHOT	22	4	A	
260.1	02:57:51	SHOT	23	4	A	
260.1	02:58:13	SHOT	24	4	A	
260.1	03:01:34	SHOT	25	4	A	
727.2	03:25:15	SHOT	26	5	A	
727.2	03:25:40	SHOT	27	5	A	
727.2	03:26:05	SHOT	28	5	A	
860.6	04:15:42	SHOT	29	6	A	
860.6	04:16:31	SHOT	30	6	A	
860.6	04:17:03	SHOT	31	6	A	
860.6	04:18:06	SHOT	32	6	A	
860.6	04:18:46	SHOT	33	6	A	
1560.0	04:57:04	SHOT	34	7	A	
1560.0	04:57:53	SHOT	35	7	A	
1560.0	04:58:21	SHOT	36	7	A	
1560.0	04:58:48	SHOT	37	7	A	
1560.0	05:00:07	SHOT	38	7	A	
1791.4	13:35:40	SHOT	39	8	A	
1791.4	13:36:41	SHOT	40	8	A	
1791.4	13:37:34	SHOT	41	8	A	
1791.4	13:38:42	SHOT	42	8	A	
1791.4	13:39:15	SHOT	43	8	A	
1791.4	14:02:57	SHOT	44	9	A	
1791.4	14:04:24	SHOT	45	9	A	
1791.4	14:07:29	SHOT	46	9	A	
1791.4	14:08:28	SHOT	47	9	A	
3050.0	16:04:03	SHAK	48			
3050.0	16:04:36	SHOT	49	10	A	
3050.0	16:05:16	SHOT	50	10	A	
3050.0	16:07:24	SHOT	51	10	A	
3050.0	16:08:21	SHOT	52	10	A	
3050.0	16:12:42	SHOT	53	10	A	
3050.0	16:13:03	SHOT	54	10	A	
2989.0	16:21:57	SHOT	55	11	A	
2989.0	16:23:11	SHOT	56	11	A	
2989.0	16:23:59	SHOT	57	11	A	
2989.0	16:24:28	SHOT	58	11	A	
2928.1	16:31:19	SHOT	59	12	A	
2928.1	16:31:44	SHOT	60	12	A	
2928.1	16:32:02	SHOT	61	12	A	
2867.1	16:38:21	SHOT	62	13	A	

Observer's Note (2/4)

Well depth [m]	Time	Shot Type	Shot#	Stack#	Source	Remarks

2867.1	16:39:00	SHOT	63	13	A	
2867.1	16:39:18	SHOT	64	13	A	
2806.2	16:52:26	SHOT	65	14	A	
2806.2	16:52:54	SHOT	66	14	A	
2806.2	16:53:38	SHOT	67	14	A	
2806.2	16:54:16	SHOT	68	14	A	
2745.2	17:03:25	SHOT	69	15	A	
2745.2	17:04:15	SHOT	70	15	A	
2745.2	17:04:33	SHOT	71	15	A	
2684.2	17:13:06	SHOT	72	16	A	
2684.2	17:13:24	SHOT	73	16	A	
2684.2	17:14:00	SHOT	74	16	A	
2623.3	17:23:25	SHOT	75	17	A	
2623.3	17:24:22	SHOT	76	17	A	
2623.3	17:24:41	SHOT	77	17	A	
2562.3	17:33:32	SHOT	78	18	A	
2562.3	17:33:59	SHOT	79	18	A	
2562.3	17:34:18	SHOT	80	18	A	
2501.4	17:53:07	SHOT	81	19	A	
2501.4	17:53:29	SHOT	82	19	A	
2501.4	17:53:59	SHOT	83	19	A	
2440.4	18:04:01	SHOT	84	20	A	
2440.4	18:04:27	SHOT	85	20	A	
2440.4	18:04:52	SHOT	86	20	A	
2379.4	18:13:33	SHOT	87	21	A	
2379.4	18:14:06	SHOT	88	21	A	
2379.4	18:14:25	SHOT	89	21	A	
2318.5	18:26:14	SHOT	90	22	A	
2318.5	18:26:42	SHOT	91	22	A	
2318.5	18:27:05	SHOT	92	22	A	
2318.5	18:27:28	SHOT	93	22	A	
2318.5	18:27:48	SHOT	94	22	A	
2318.5	18:28:13	SHOT	95	22	A	
2257.5	18:42:35	SHOT	96	23	A	
2257.5	18:42:54	SHOT	97	23	A	
2257.5	18:43:27	SHOT	98	23	A	
2196.5	18:57:54	SHOT	99	24	A	
2196.5	18:58:12	SHOT	100	24	A	
2196.5	18:58:30	SHOT	101	24	A	
2135.6	19:09:17	SHOT	102	25	A	
2135.6	19:09:40	SHOT	103	25	A	
2135.6	19:10:08	SHOT	104	25	A	
2135.6	19:10:40	SHOT	105	25	A	
2135.6	19:10:58	SHOT	106	25	A	
2135.6	19:11:24	SHOT	107	25	A	
2135.6	19:11:56	SHOT	108	25	A	
2135.6	19:12:23	SHOT	109	25	A	
2135.6	19:12:41	SHOT	110	25	A	
2074.7	19:24:50	SHOT	111	26	A	
2074.7	19:25:41	SHOT	112	26	A	
2074.7	19:26:17	SHOT	113	26	A	
2074.7	19:26:52	SHOT	114	26	A	
2013.7	19:38:11	SHOT	115	27	A	
2013.7	19:38:56	SHOT	116	27	A	
2013.7	19:39:15	SHOT	117	27	A	
2013.7	19:39:36	SHOT	118	27	A	
1952.7	19:49:51	SHOT	119	28	A	
1952.7	19:50:10	SHOT	120	28	A	
1952.7	19:50:32	SHOT	121	28	A	

Observer's Note (3/4)

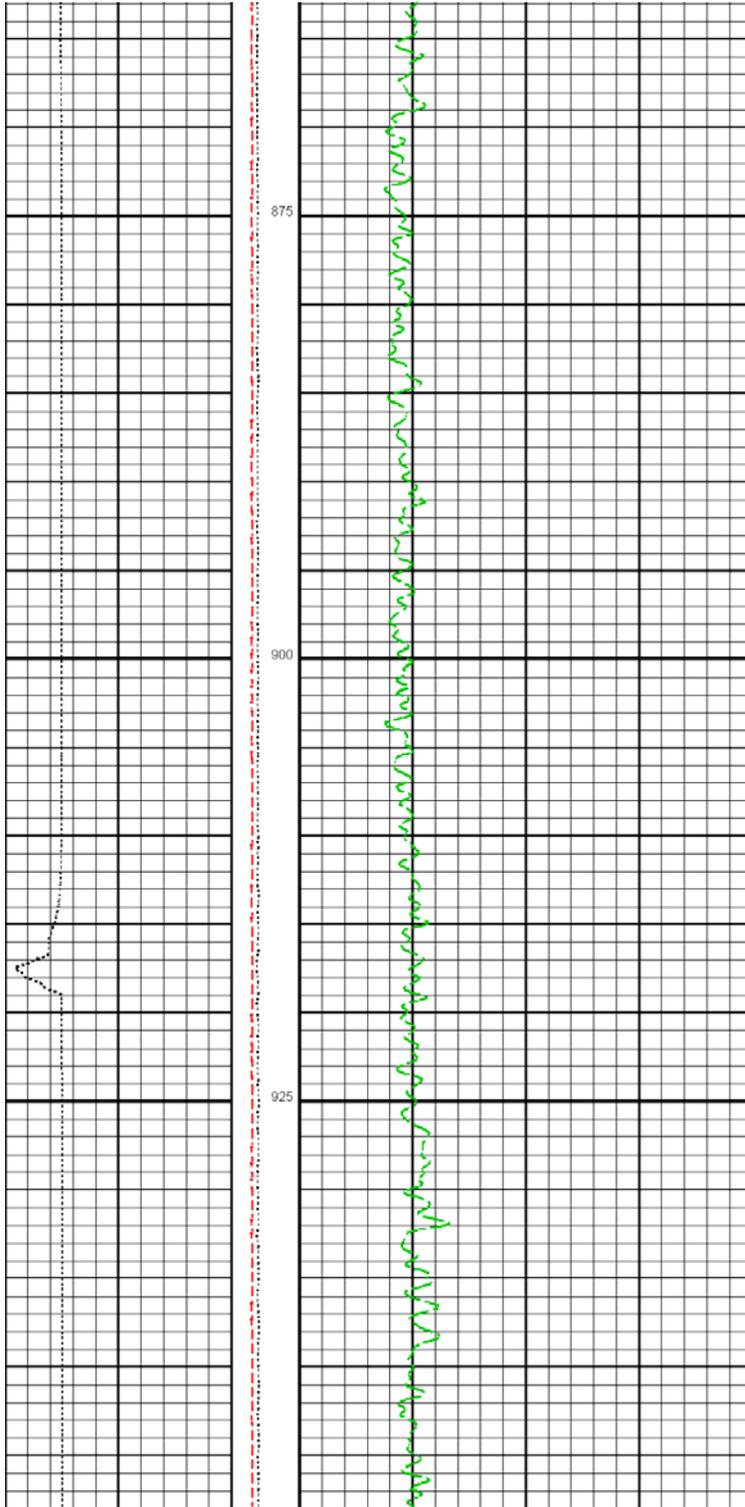
Well depth [m]	Time	Shot Type	Shot#	Stack#	Source	Remarks
1891.8	20:00:53	SHOT	122	29	A	
1891.8	20:01:18	SHOT	123	29	A	
1891.8	20:01:36	SHOT	124	29	A	
1891.8	20:01:58	SHOT	125	29	A	

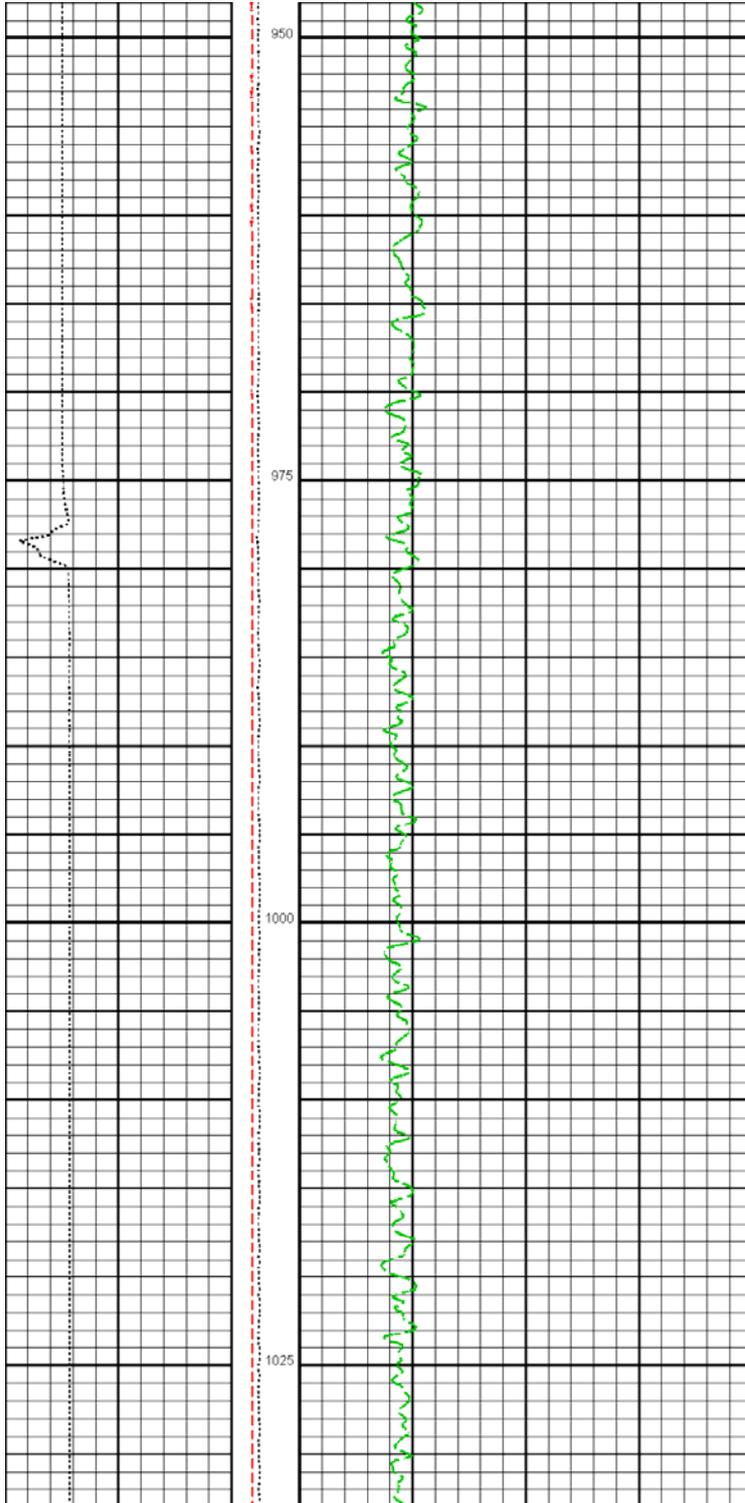
1830.6	20:12:00	SHOT	126	30	A	
1830.6	20:12:22	SHOT	127	30	A	
1830.6	20:12:42	SHOT	128	30	A	
1769.9	20:23:38	SHOT	129	31	A	
1769.9	20:24:27	SHOT	130	31	A	
1769.9	20:25:11	SHOT	131	31	A	
1708.9	20:35:49	SHOT	132	32	A	
1708.9	20:36:17	SHOT	133	32	A	
1708.9	20:36:44	SHOT	134	32	A	
1708.9	20:37:08	SHOT	135	32	A	
1647.9	20:47:12	SHOT	136	33	A	
1647.9	20:47:39	SHOT	137	33	A	
1647.9	20:48:00	SHOT	138	33	A	
1587.0	20:57:44	SHOT	139	34	A	
1587.0	20:58:07	SHOT	140	34	A	
1587.0	20:58:31	SHOT	141	34	A	
1526.0	21:08:57	SHOT	142	35	A	
1526.0	21:09:25	SHOT	143	35	A	
1526.0	21:09:46	SHOT	144	35	A	
1465.0	21:19:54	SHOT	145	36	A	
1465.0	21:20:21	SHOT	146	36	A	
1465.0	21:20:40	SHOT	147	36	A	
1465.0	21:20:58	SHOT	148	36	A	
1404.1	21:31:13	SHOT	149	37	A	
1404.1	21:31:38	SHOT	150	37	A	
1404.1	21:31:59	SHOT	151	37	A	
1404.1	21:32:17	SHOT	152	37	A	
1343.1	21:42:16	SHOT	153	38	A	
1343.1	21:42:39	SHOT	154	38	A	
1343.1	21:43:02	SHOT	155	38	A	
1282.2	21:53:19	SHOT	156	39	A	
1282.2	21:53:42	SHOT	157	39	A	
1282.2	21:54:01	SHOT	158	39	A	
1221.2	22:04:13	SHOT	159	40	A	
1221.2	22:05:08	SHOT	160	40	A	
1221.2	22:05:26	SHOT	161	40	A	
1221.2	22:05:47	SHOT	162	40	A	
1160.2	22:17:22	SHOT	163	41	A	
1160.2	22:17:49	SHOT	164	41	A	
1160.2	22:18:07	SHOT	165	41	A	
1099.3	22:29:05	SHOT	166	42	A	
1099.3	22:29:39	SHOT	167	42	A	
1099.3	22:29:57	SHOT	168	42	A	
1099.3	22:30:15	SHOT	169	42	A	
1038.3	22:37:21	SHOT	170	43	A	
1038.3	22:37:51	SHOT	171	43	A	
1038.3	22:38:09	SHOT	172	43	A	
977.4	22:45:50	SHOT	173	44	A	
977.4	22:46:31	SHOT	174	44	A	
977.4	22:47:02	SHOT	175	44	A	
977.4	22:47:28	SHOT	176	44	A	
916.4	22:56:03	SHOT	177	45	A	
916.4	22:56:21	SHOT	178	45	A	
916.4	22:56:54	SHOT	179	45	A	
916.4	22:57:32	SHOT	180	45	A	

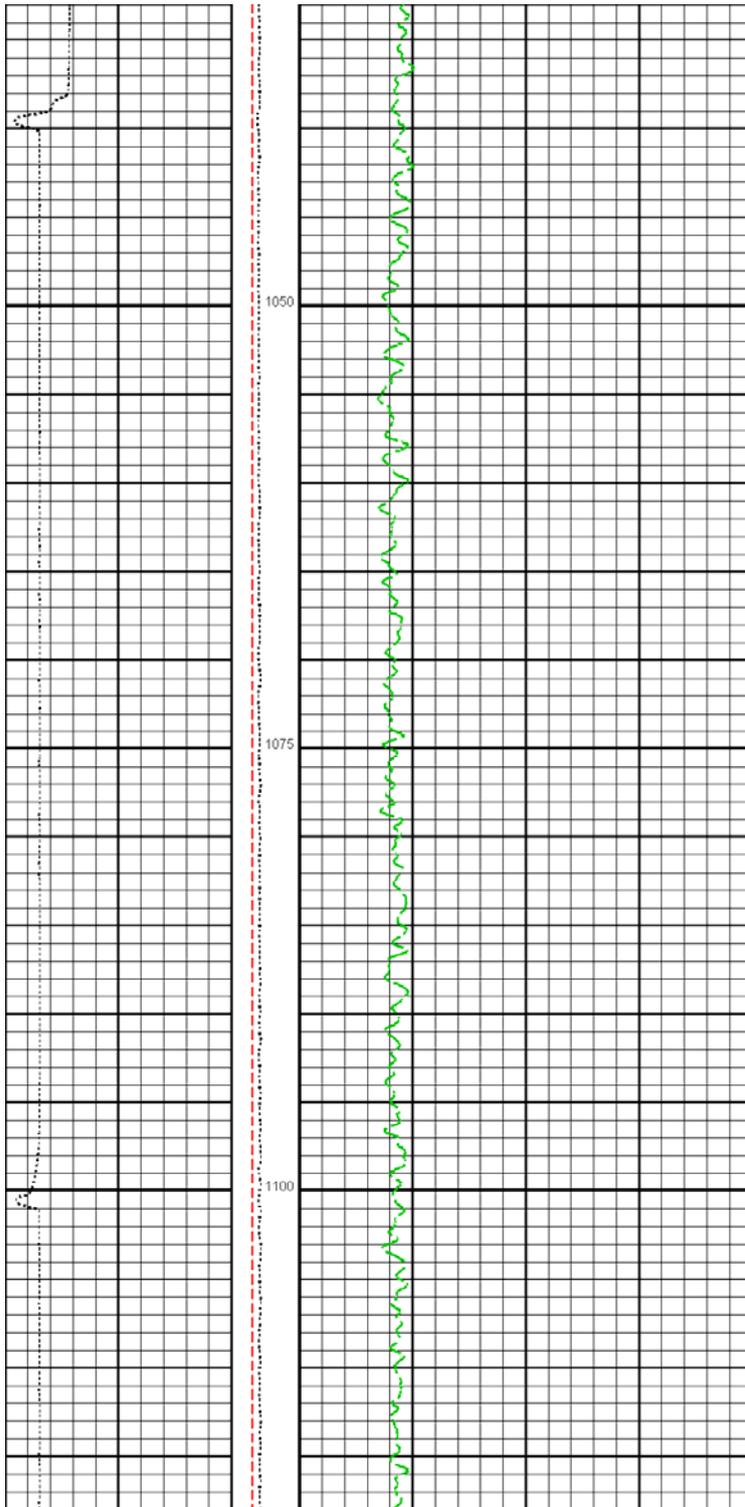
Observer's Note (4/4)

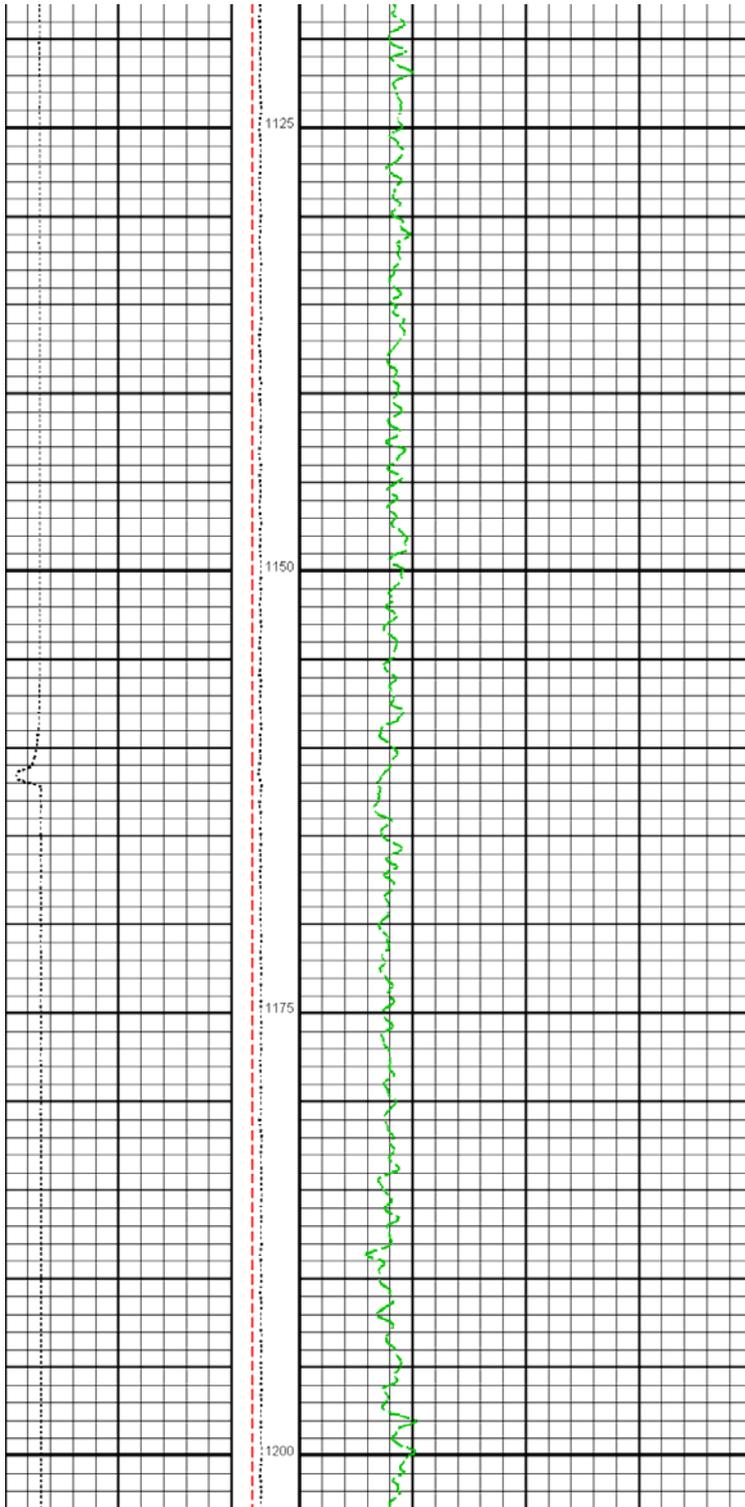
Well depth[m]	Time	Shot Type	Shot#	Stack#	Source	Remarks
855.4	23:08:38	SHOT	181	46	A	
855.4	23:09:14	SHOT	182	46	A	
855.4	23:09:51	SHOT	183	46	A	
855.4	23:10:10	SHOT	184	46	A	
855.4	23:10:56	SHOT	185	46	A	

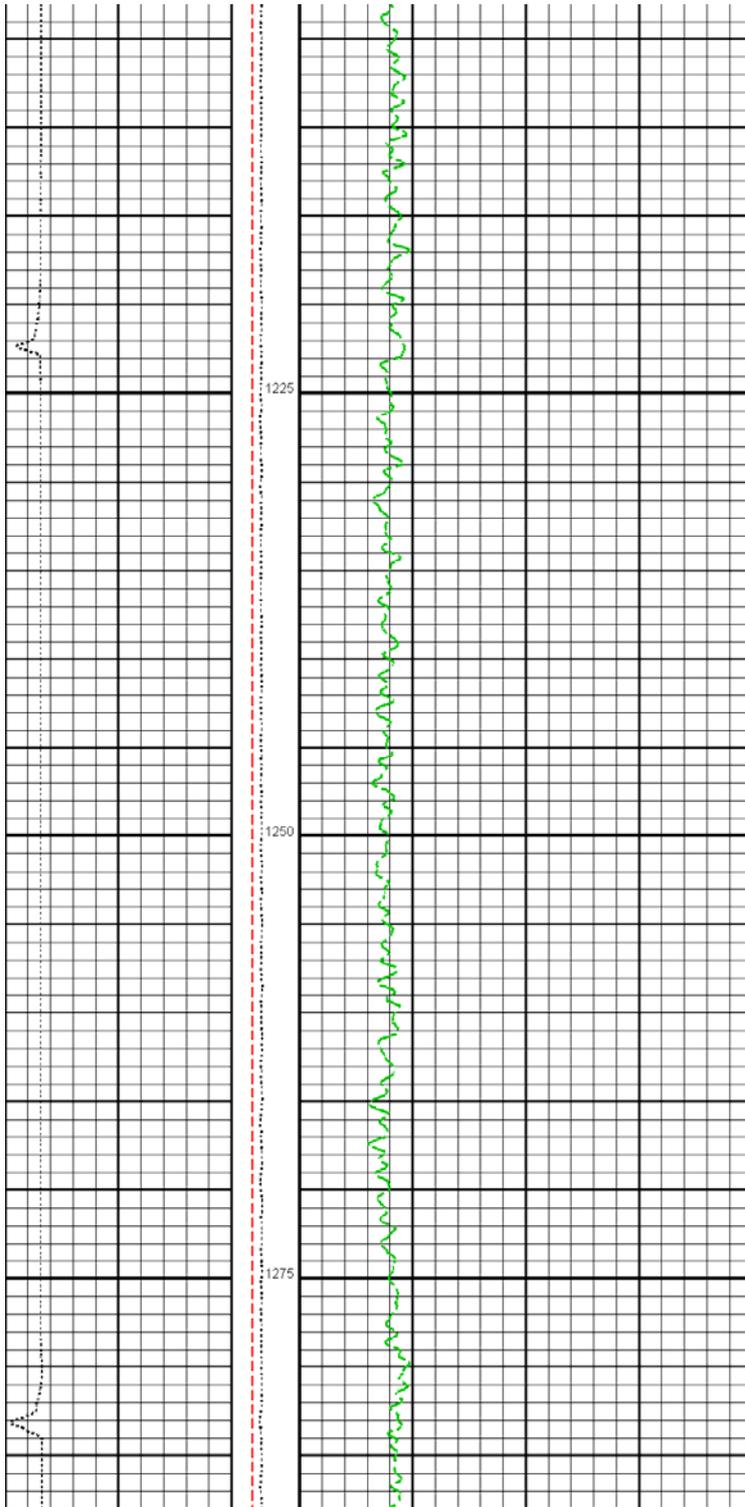
GR Correlation Report

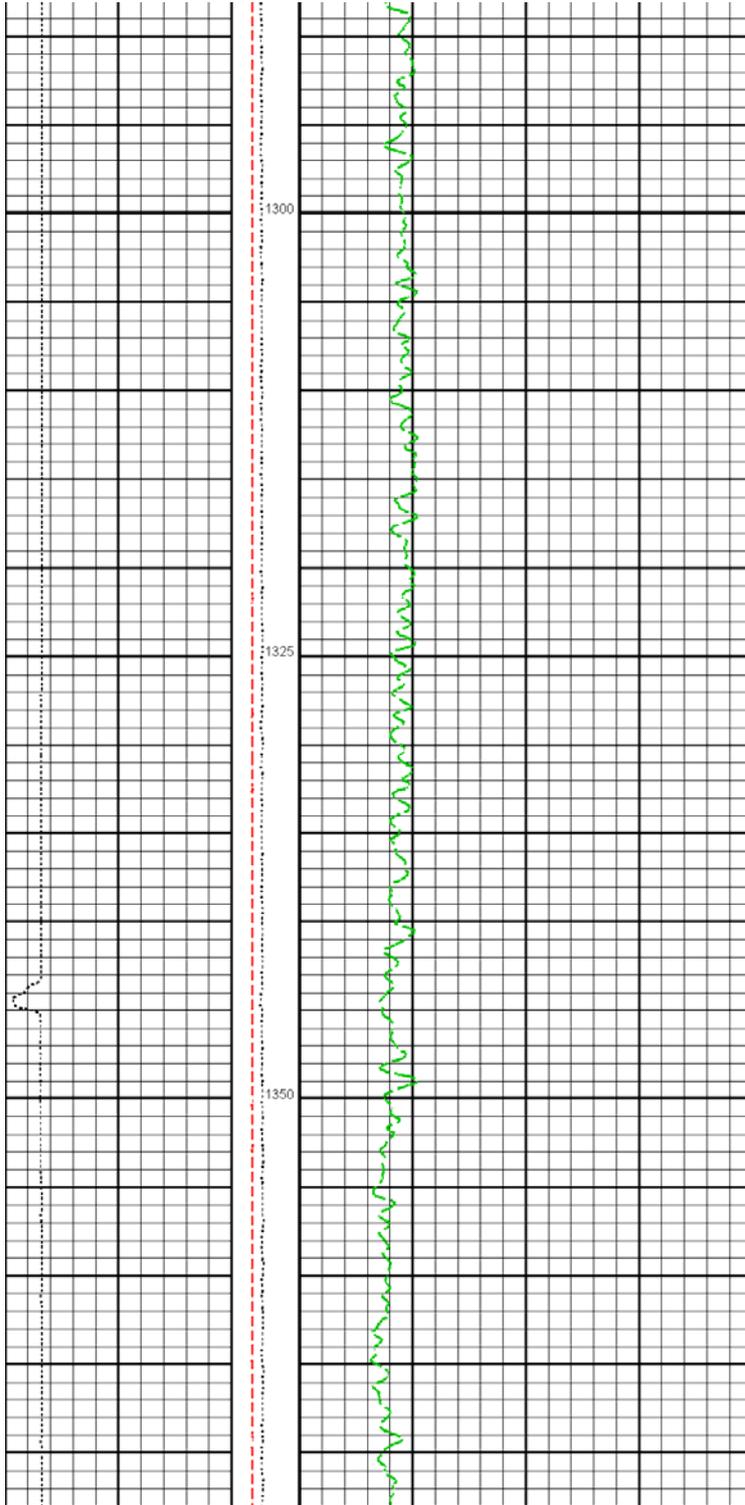


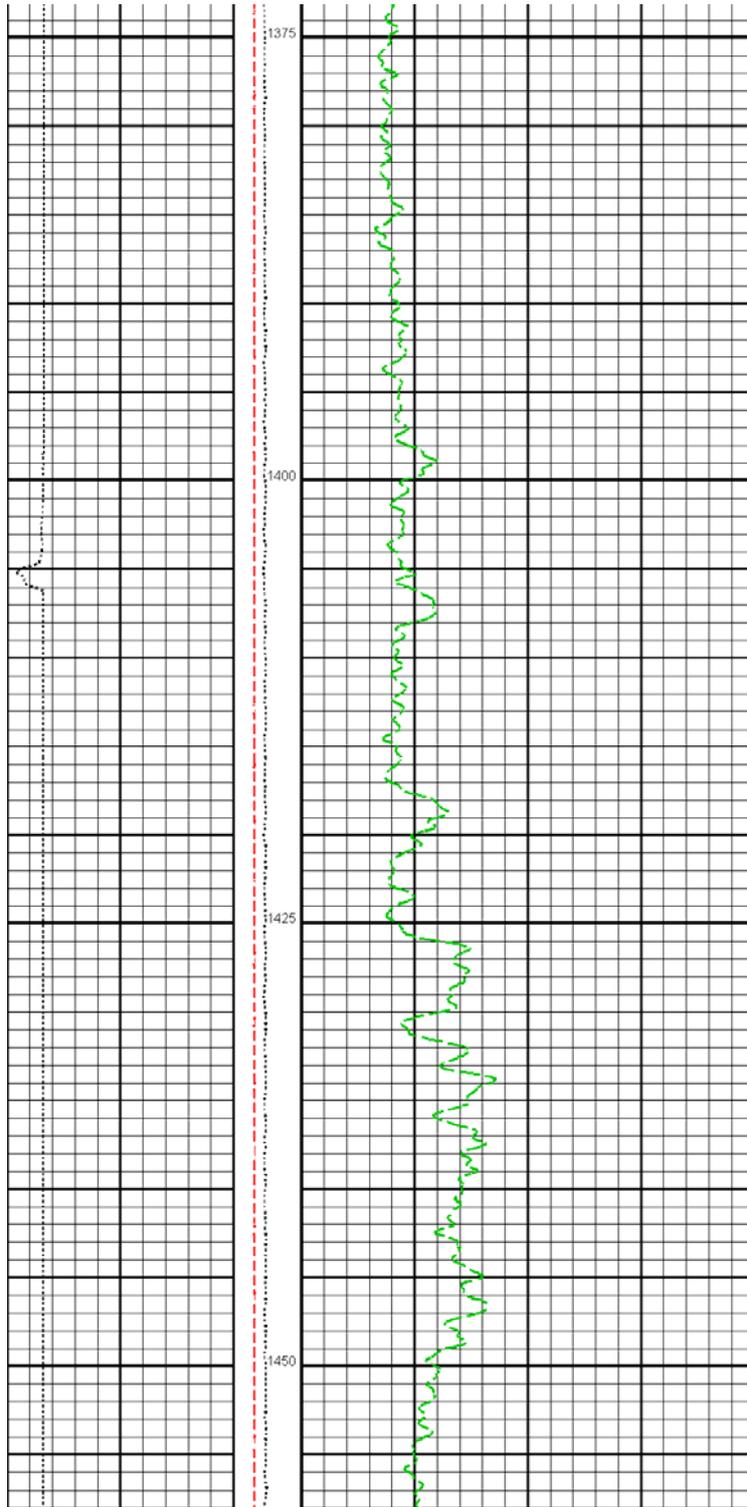


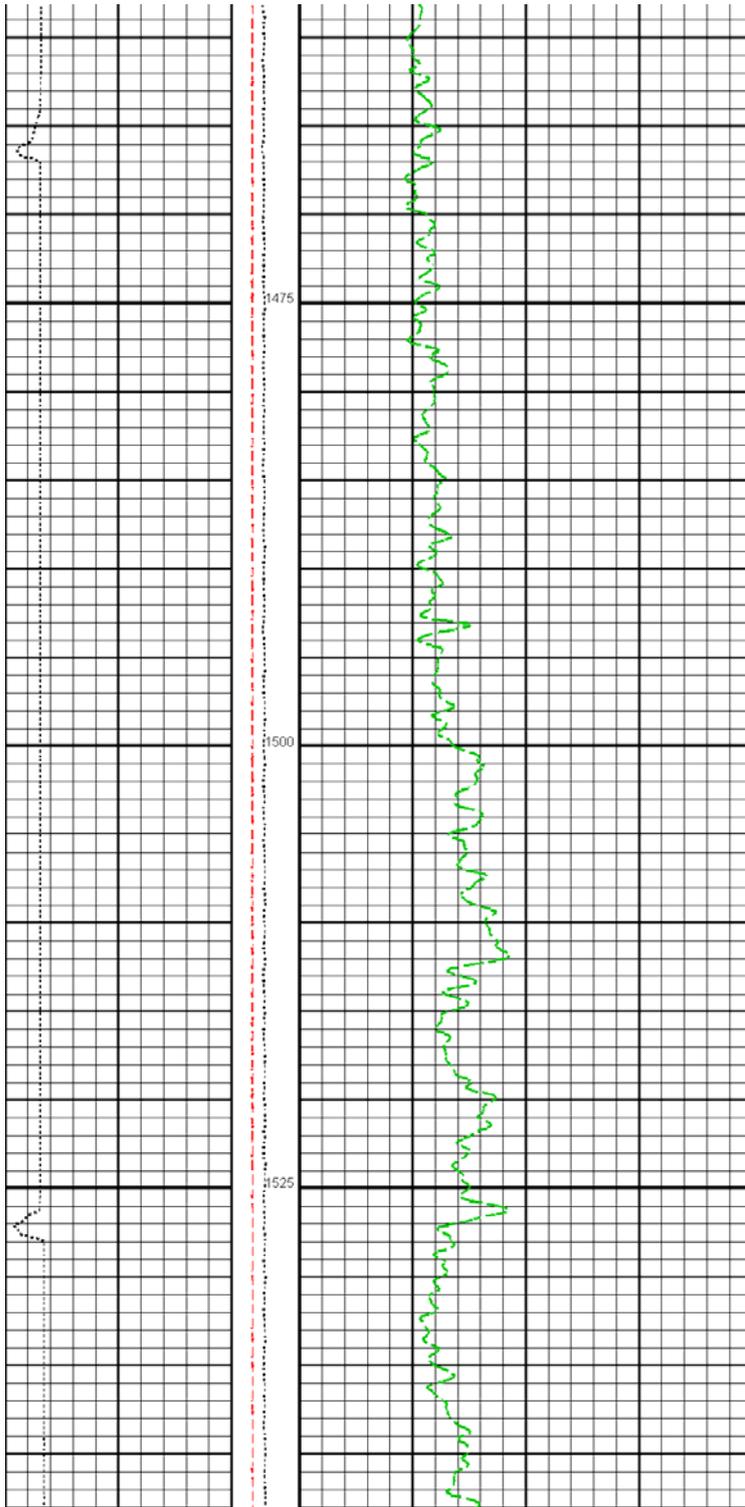


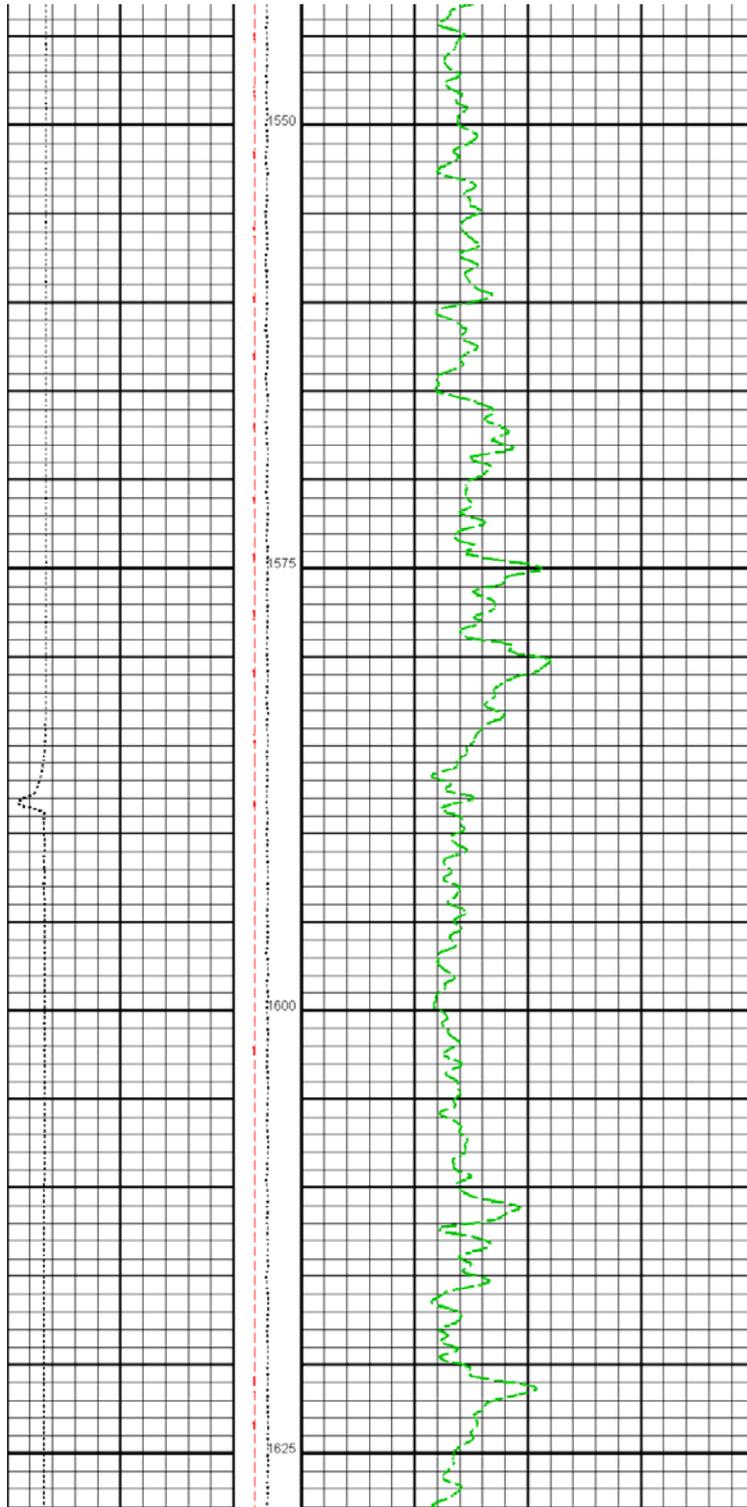


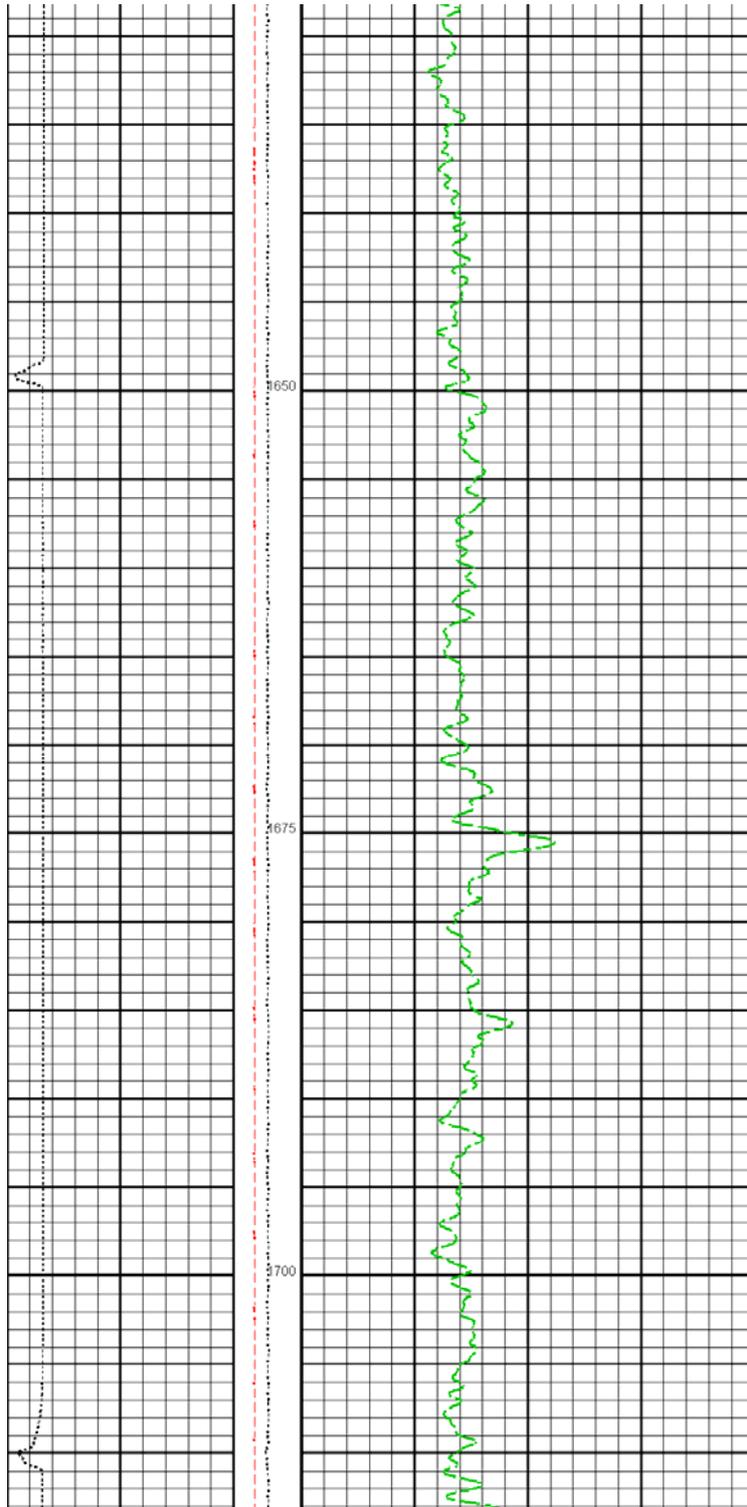


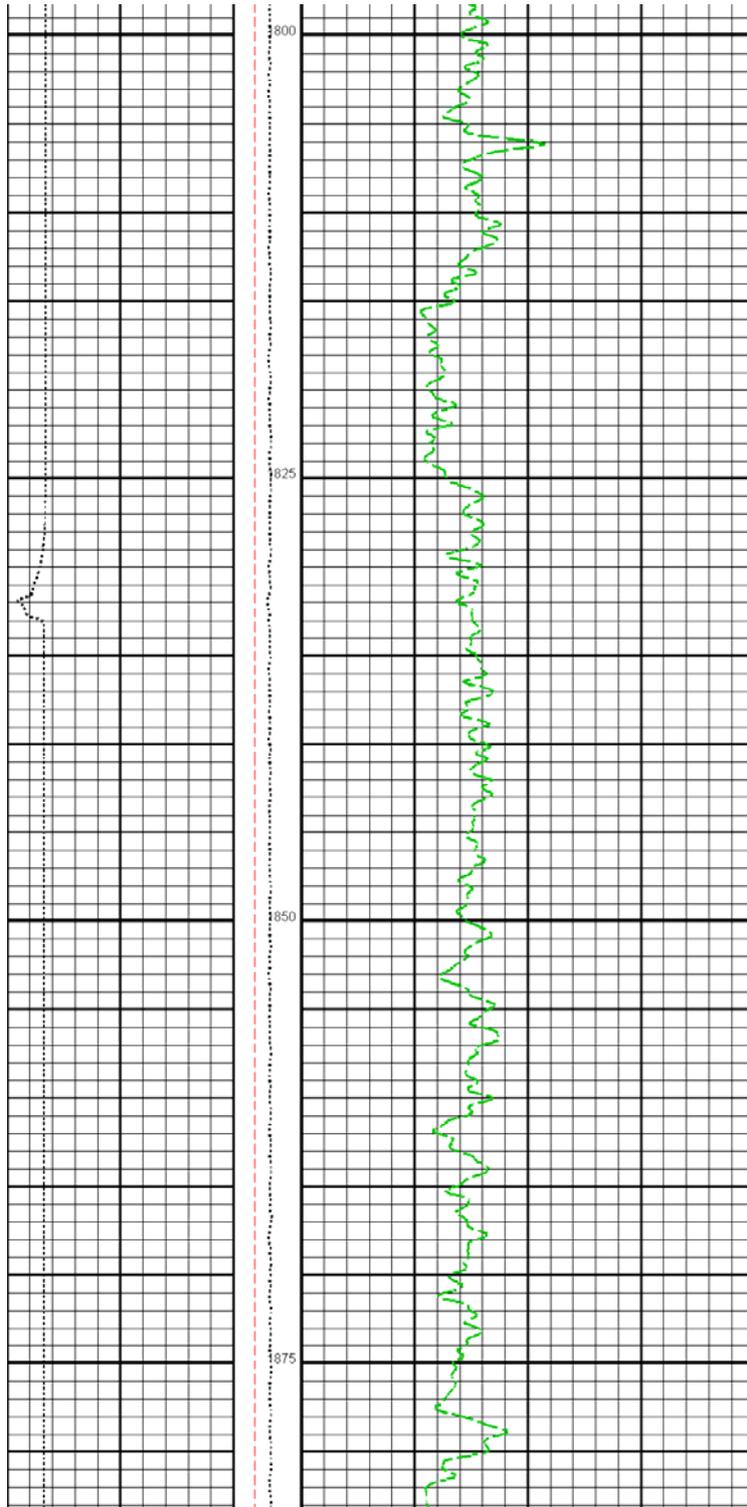


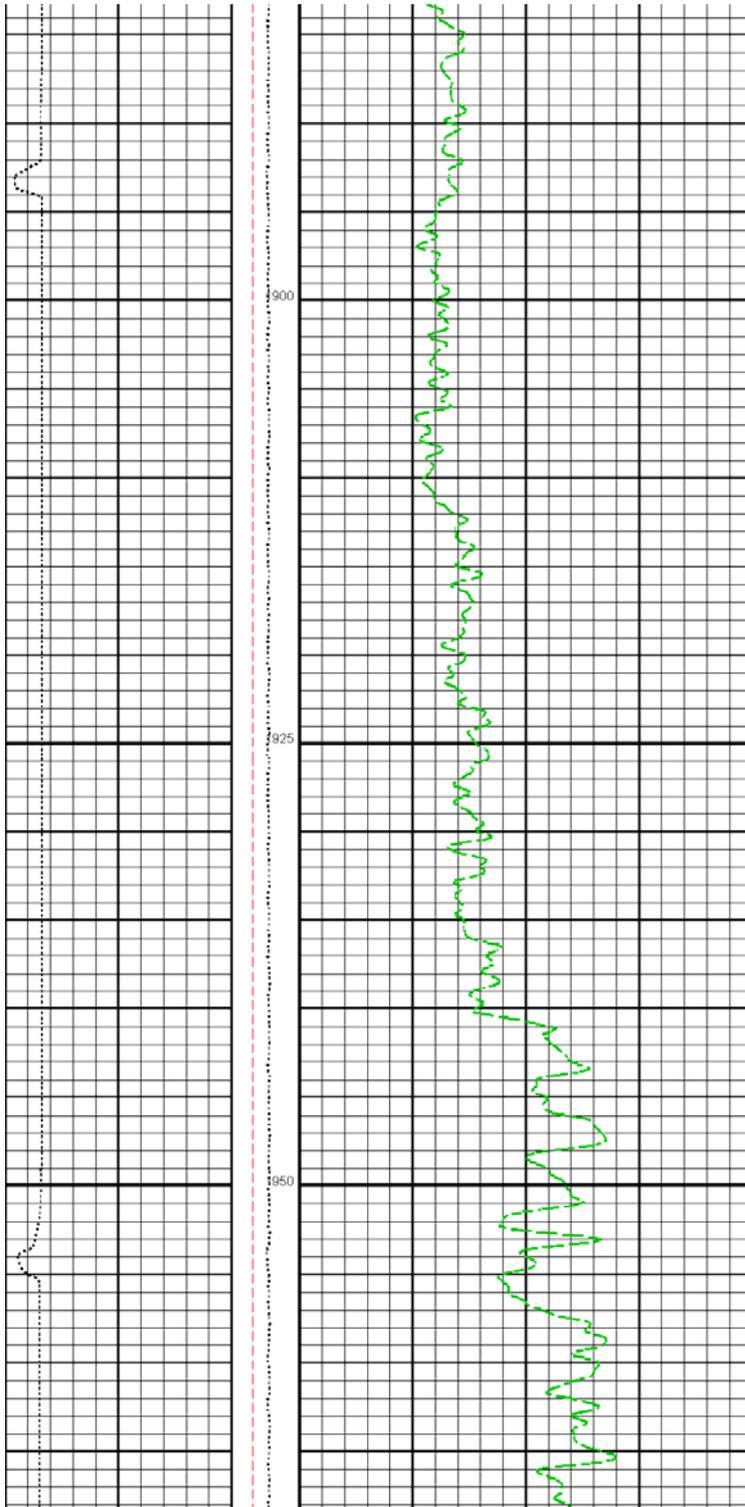


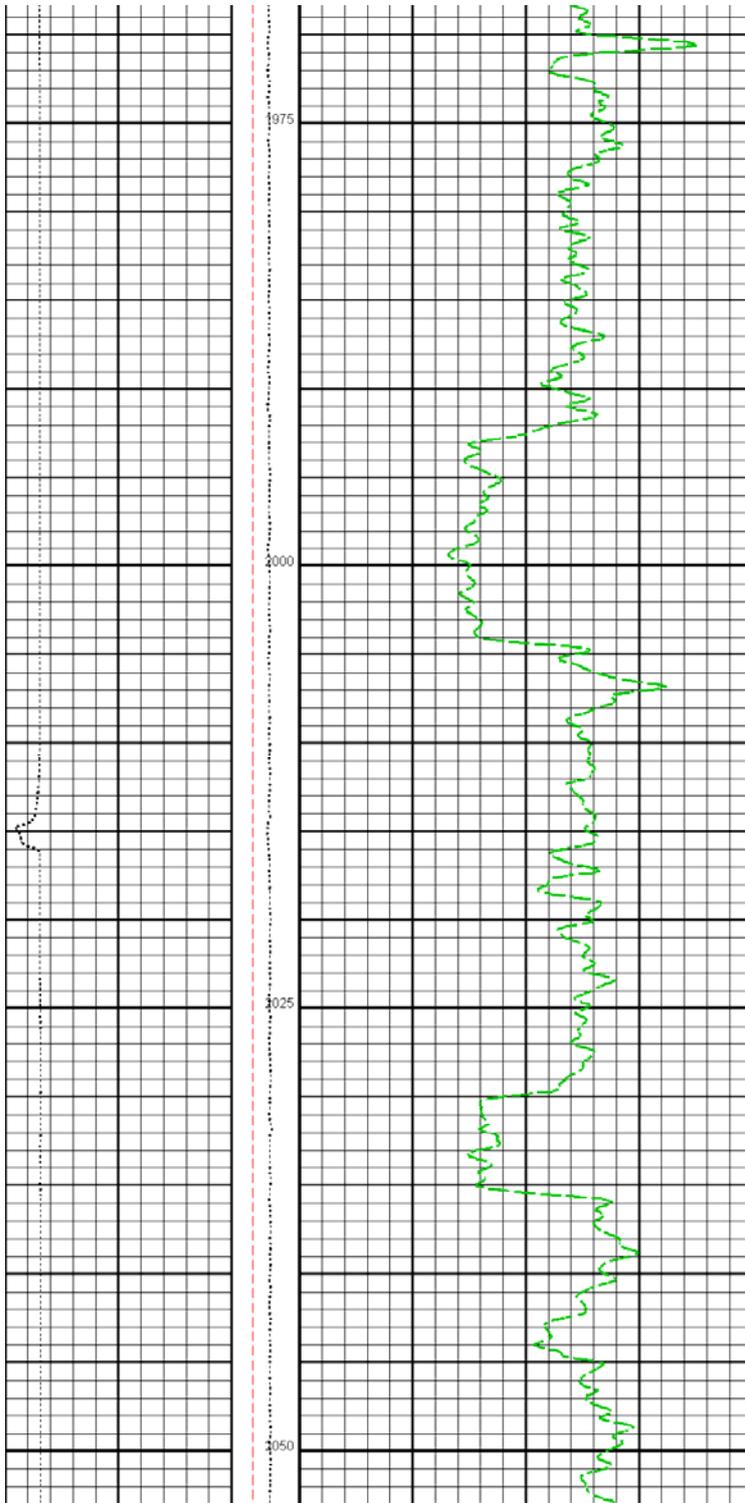


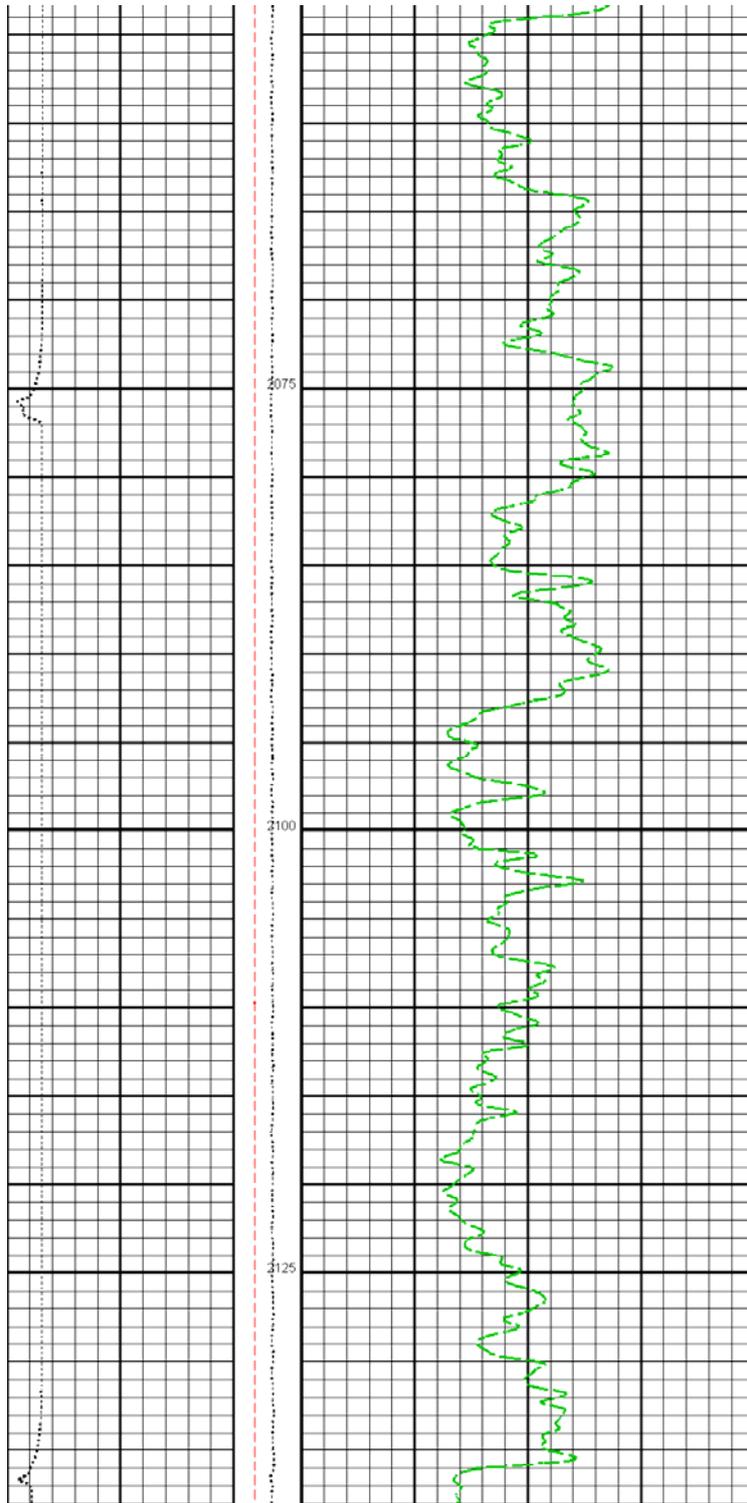


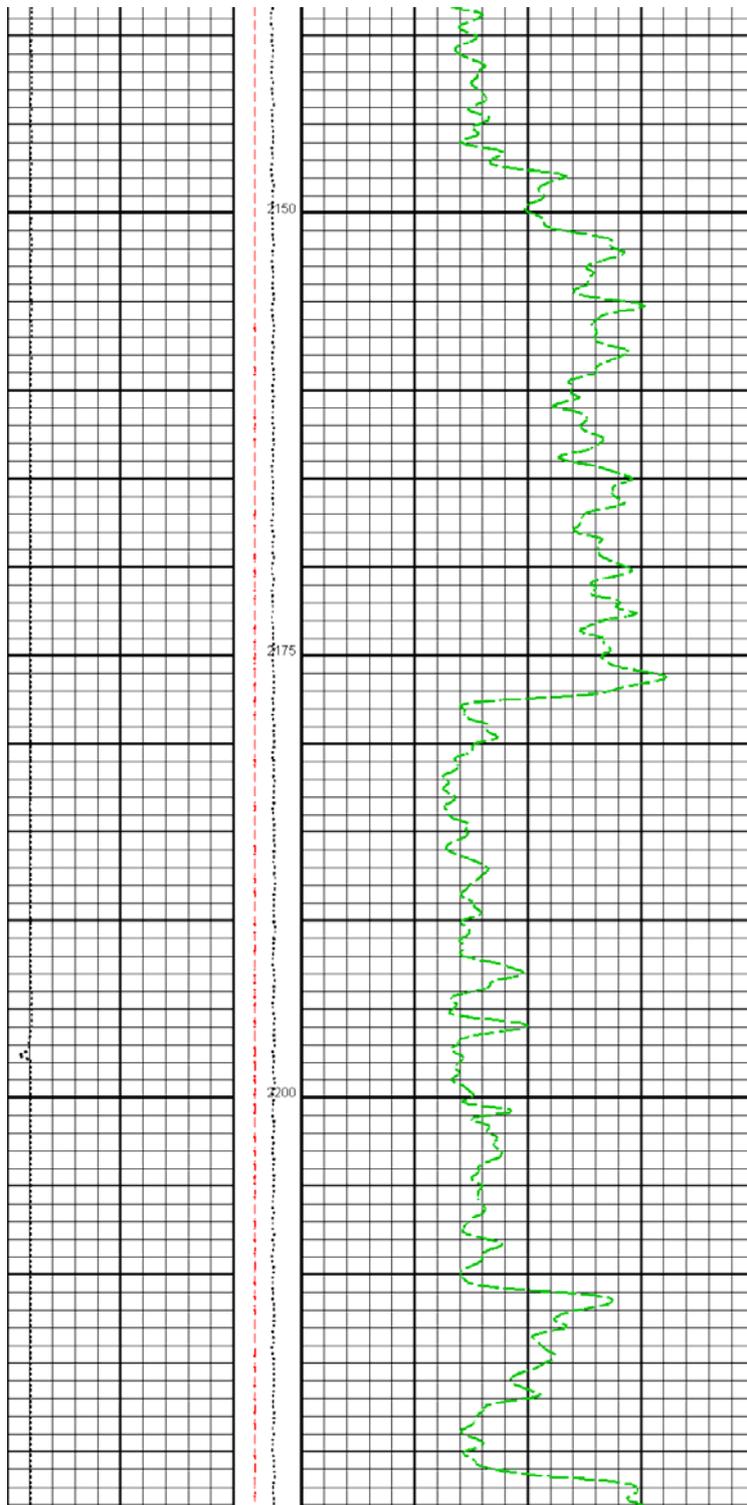


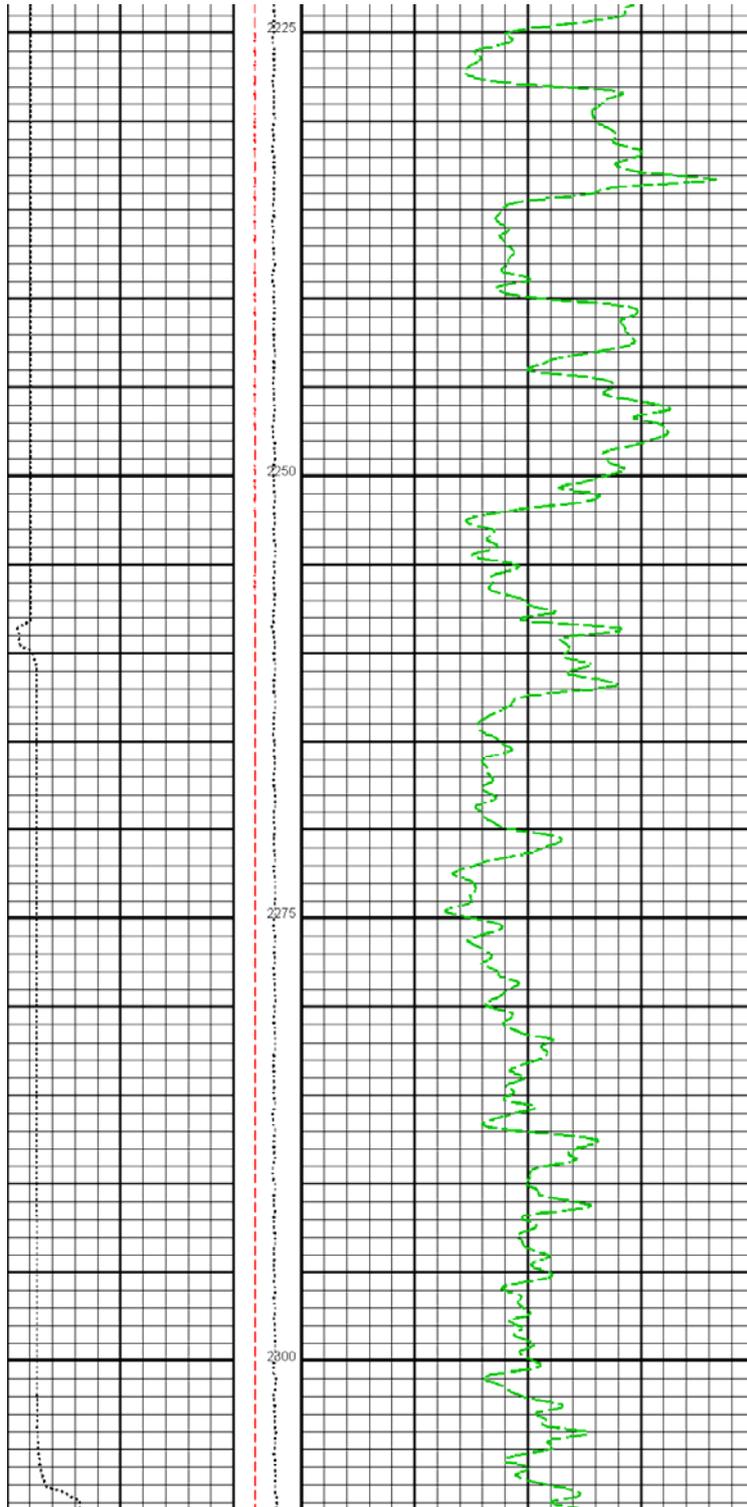


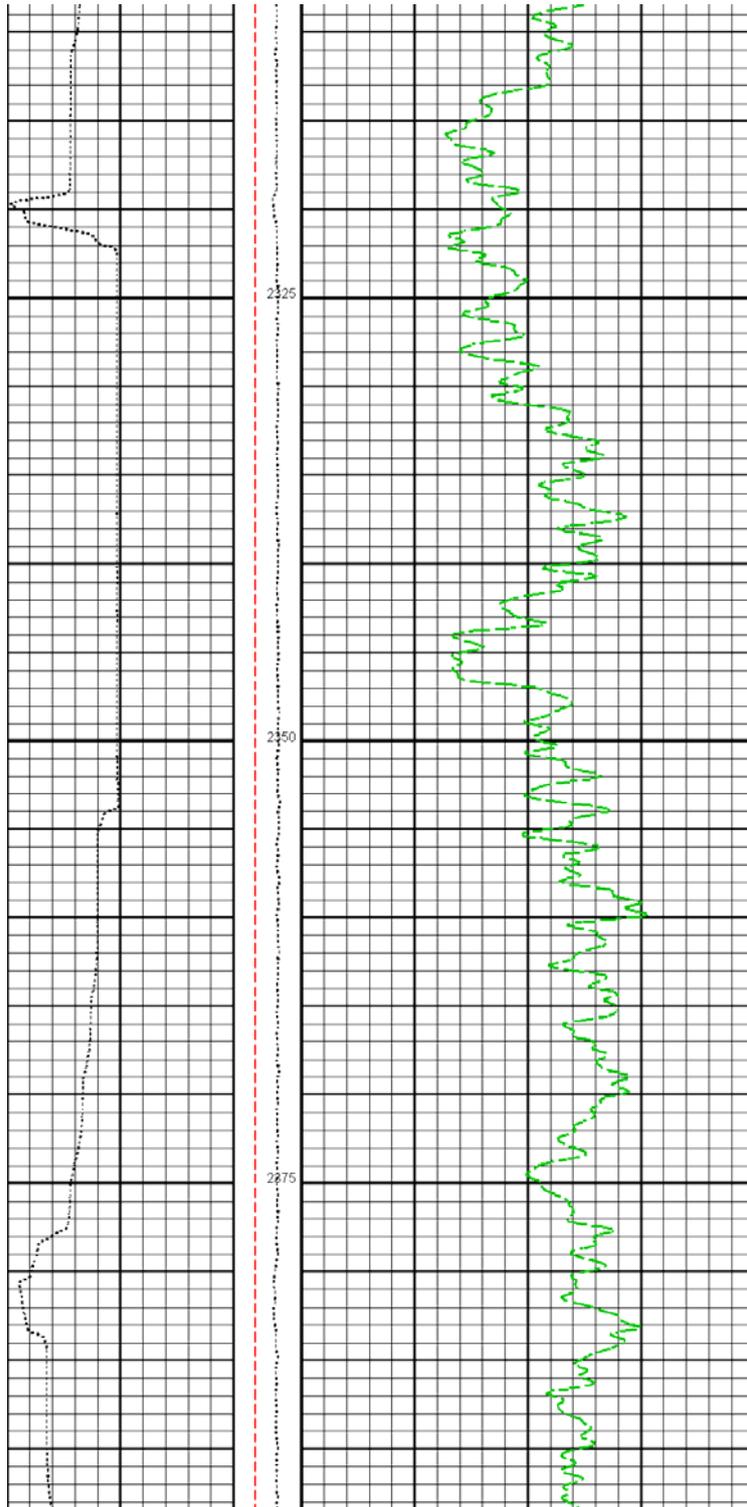


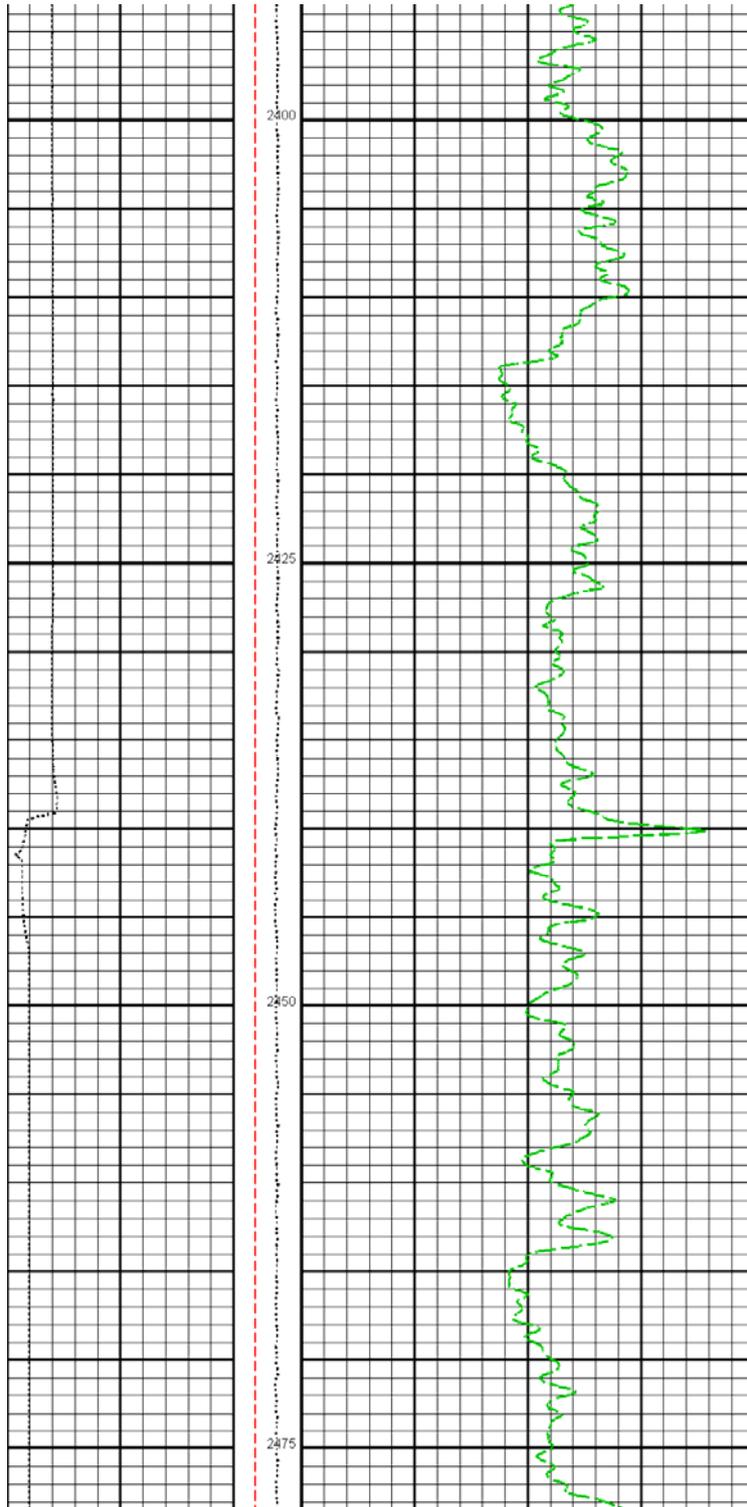


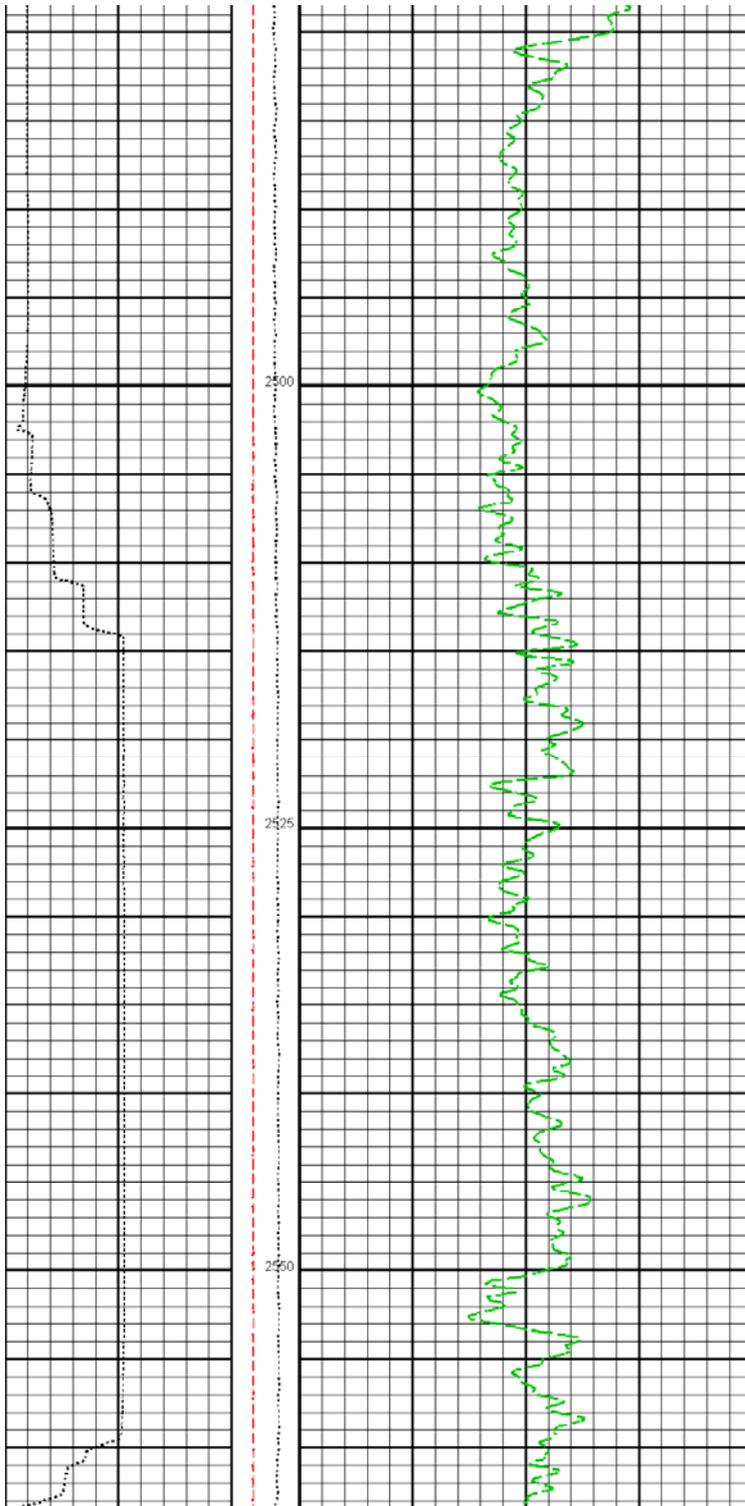


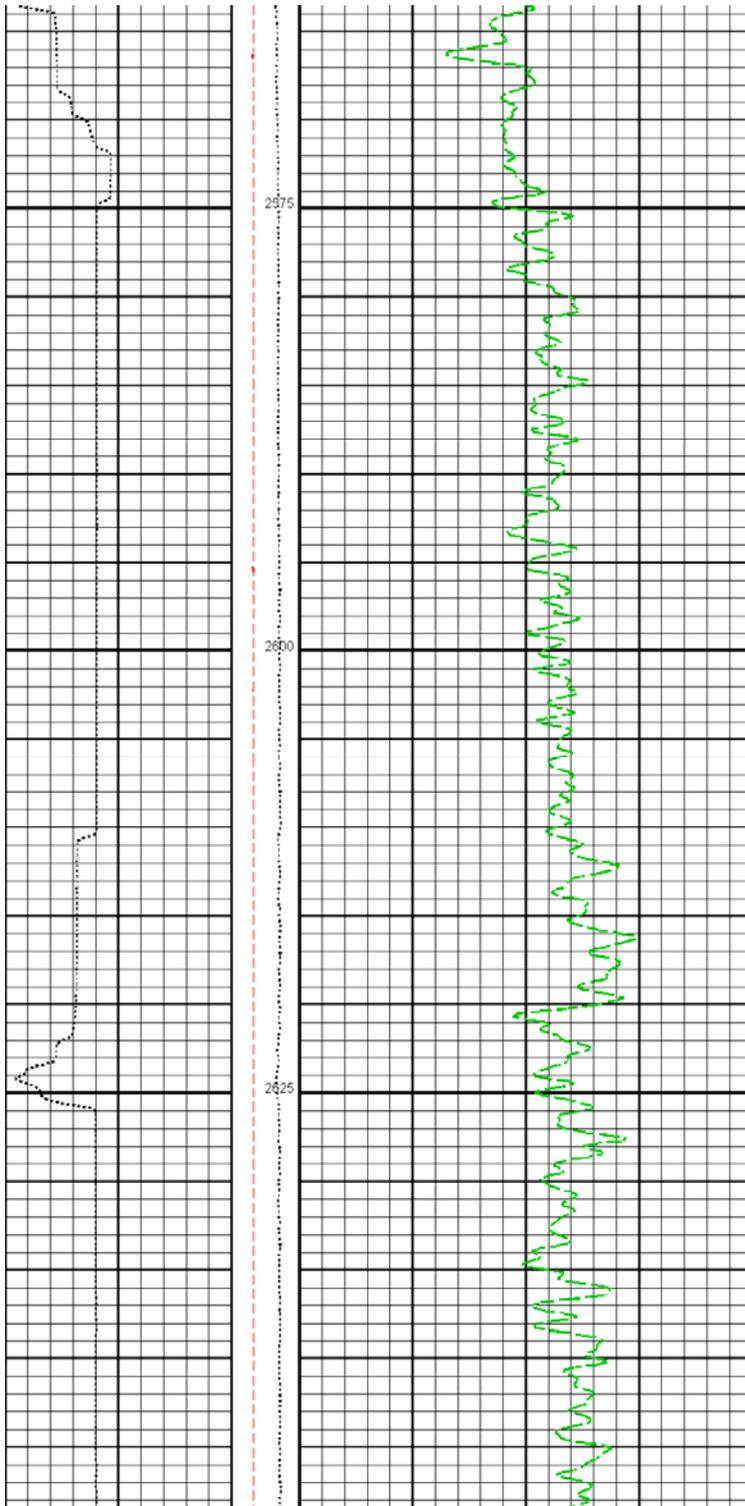


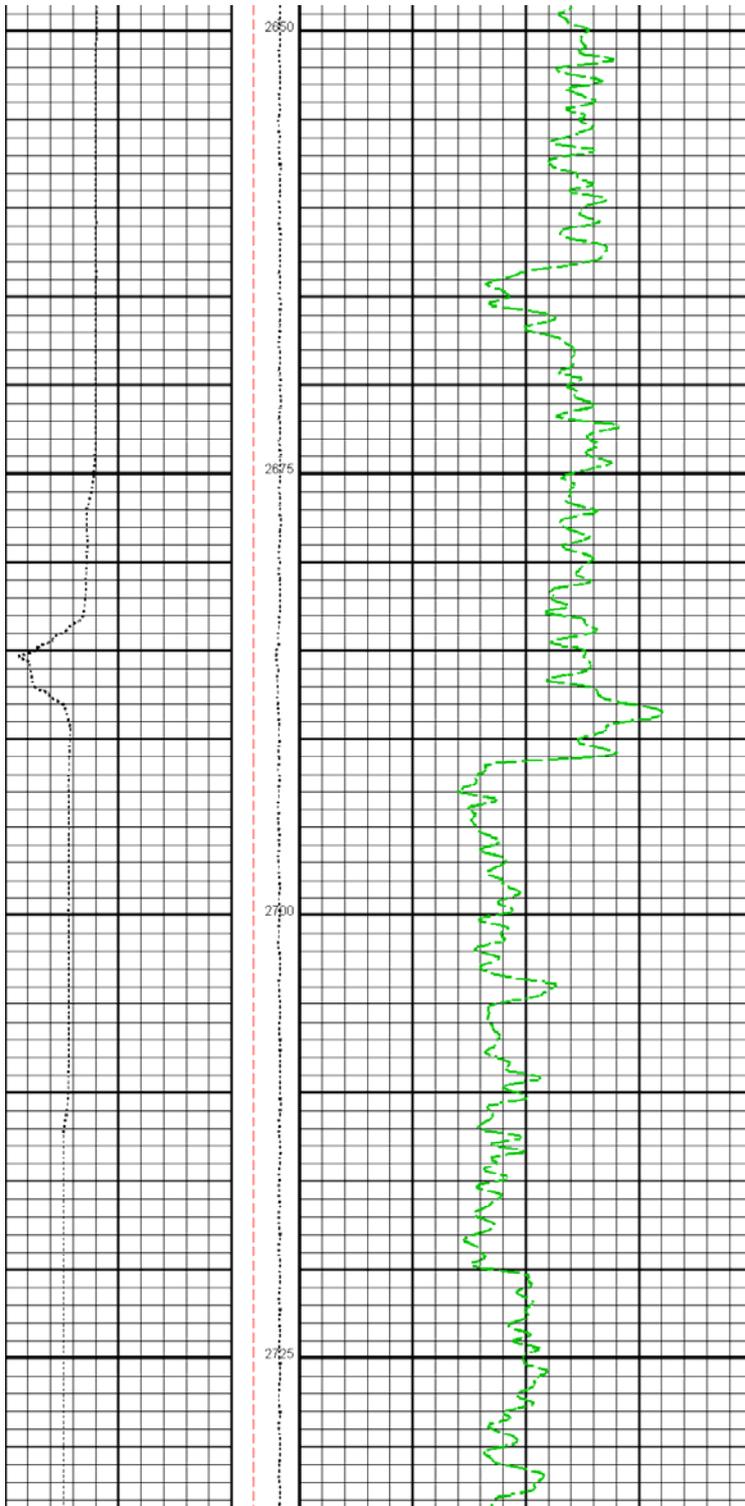


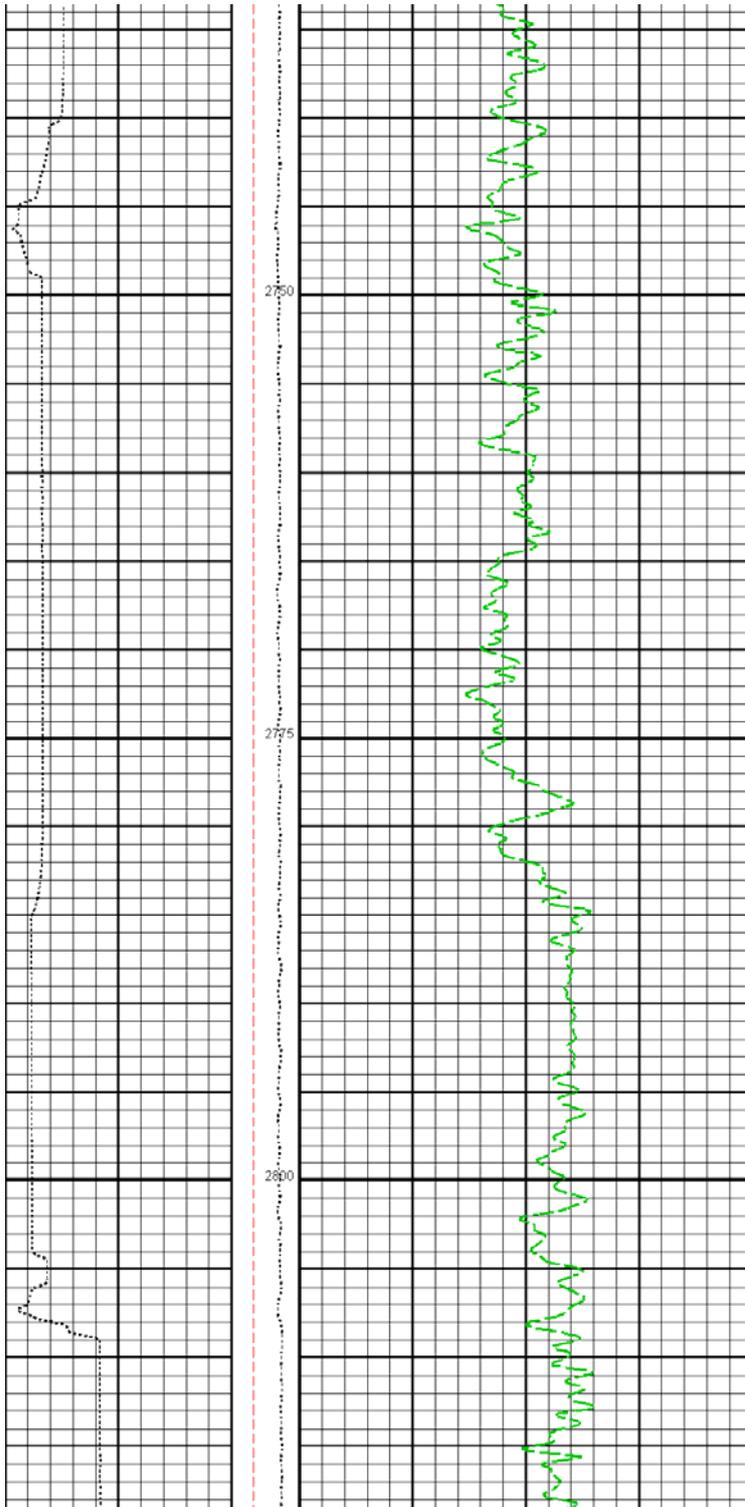


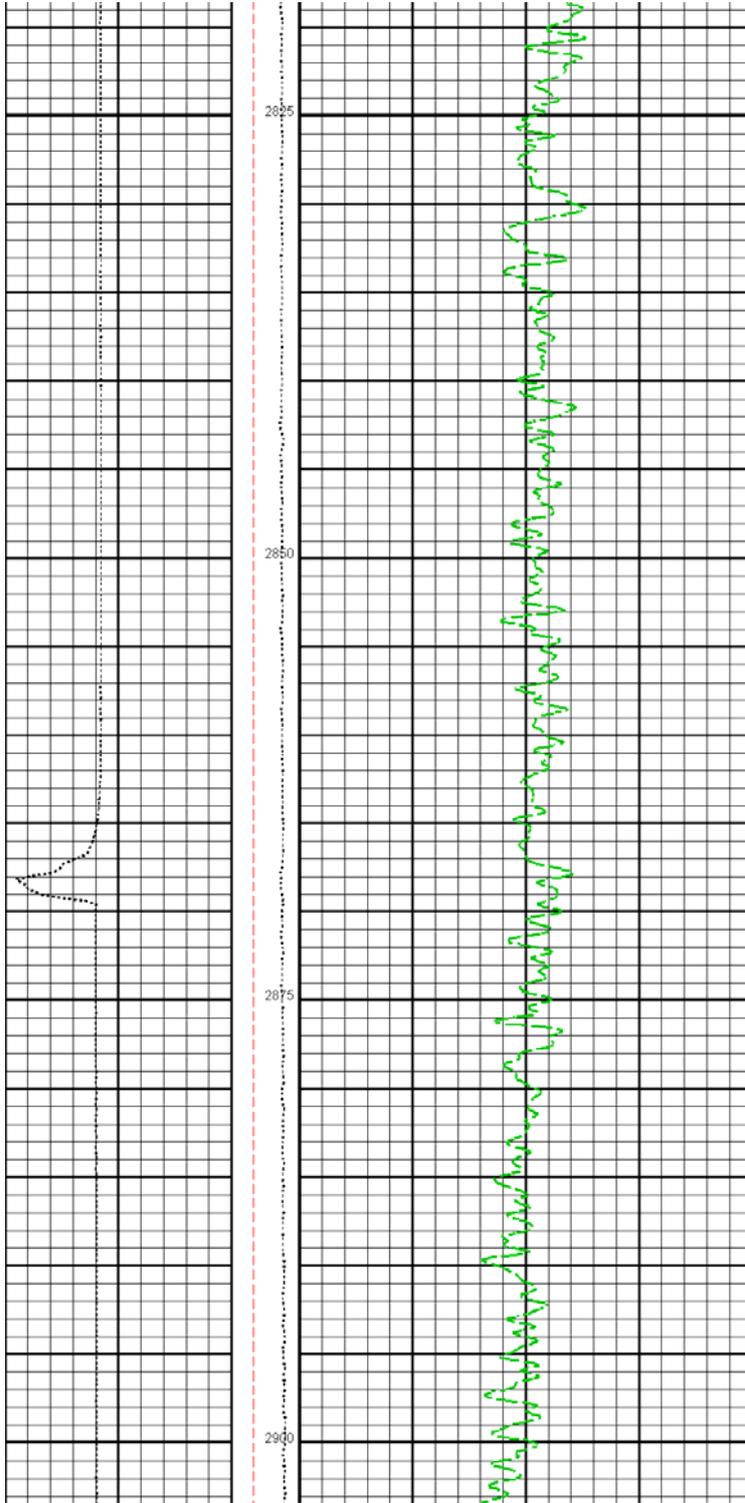


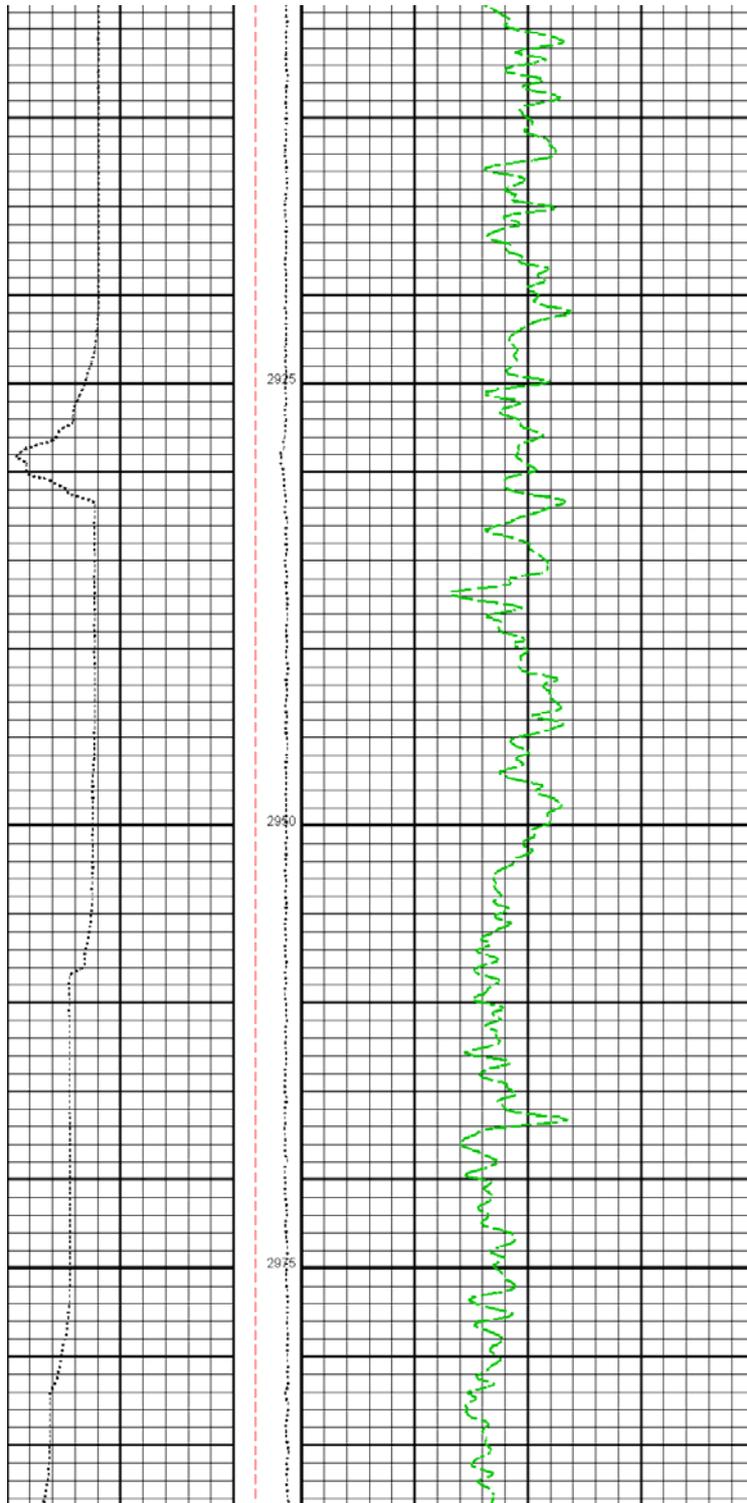


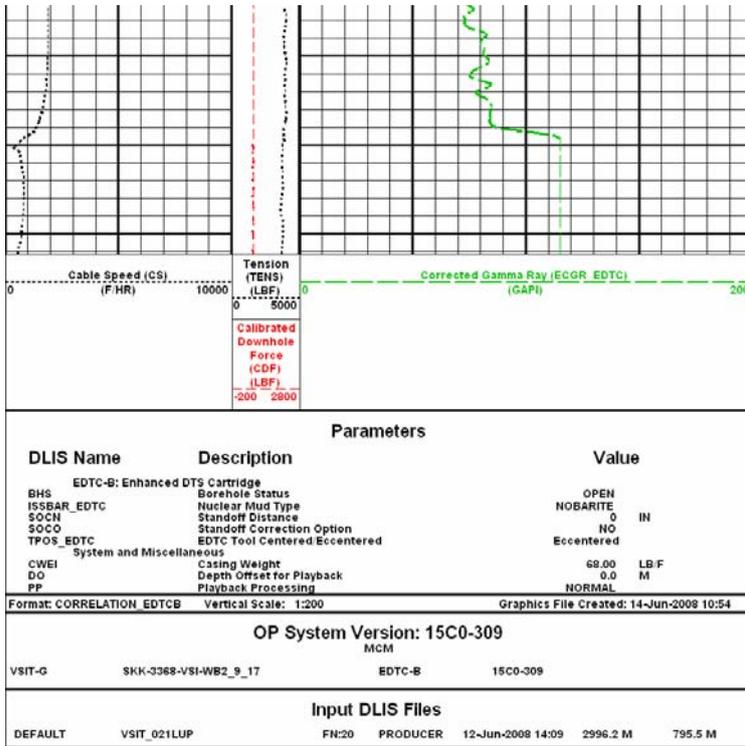












Tidal Water Level Report

SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN
1-JUN-08	2-JUN-08	3-JUN-08	4-JUN-08	5-JUN-08	6-JUN-08	7-JUN-08	8-JUN-08	9-JUN-08	10-JUN-08	11-JUN-08	12-JUN-08	13-JUN-08	14-JUN-08	15-JUN-08
time	time	time	time	time	time									
0000 0.6	0000 0.5	0000 0.5	0000 0.5	0000 0.6	0000 0.6	0000 0.7	0000 0.7	0000 0.7	0000 0.7	0000 0.6	0000 0.6	0000 0.5	0000 0.5	0000 0.5
0100 0.6	0100 0.5	0100 0.5	0100 0.5	0100 0.6	0100 0.6	0100 0.7	0100 0.7	0100 0.7	0100 0.7	0100 0.7	0100 0.7	0100 0.7	0100 0.5	0100 0.5
0200 0.5	0200 0.5	0200 0.5	0200 0.5	0200 0.5	0200 0.6	0200 0.7	0200 0.7	0200 0.8	0200 0.8	0200 0.8	0200 0.7	0200 0.6	0200 0.5	0200 0.5
0300 0.5	0300 0.5	0300 0.4	0300 0.4	0300 0.4	0300 0.5	0300 0.6	0300 0.7	0300 0.7	0300 0.8	0300 0.8	0300 0.7	0300 0.6	0300 0.5	0300 0.5
0400 0.5	0400 0.5	0400 0.4	0400 0.4	0400 0.3	0400 0.4	0400 0.5	0400 0.6	0400 0.7	0400 0.7	0400 0.7	0400 0.8	0400 0.7	0400 0.6	0400 0.5
0500 0.5	0500 0.4	0500 0.4	0500 0.4	0500 0.3	0500 0.3	0500 0.4	0500 0.5	0500 0.6	0500 0.7	0500 0.7	0500 0.7	0500 0.7	0500 0.6	0500 0.5
0600 0.6	0600 0.5	0600 0.4	0600 0.4	0600 0.3	0600 0.2	0600 0.3	0600 0.3	0600 0.5	0600 0.6	0600 0.6	0600 0.7	0600 0.7	0600 0.6	0600 0.5
0700 0.6	0700 0.5	0700 0.4	0700 0.3	0700 0.2	0700 0.2	0700 0.2	0700 0.2	0700 0.4	0700 0.5	0700 0.6	0700 0.6	0700 0.6	0700 0.7	0700 0.6
0800 0.6	0800 0.6	0800 0.5	0800 0.4	0800 0.2	0800 0.2	0800 0.2	0800 0.2	0800 0.3	0800 0.4	0800 0.5	0800 0.5	0800 0.5	0800 0.6	0800 0.6
0900 0.7	0900 0.7	0900 0.6	0900 0.5	0900 0.3	0900 0.3	0900 0.2	0900 0.2	0900 0.3	0900 0.3	0900 0.4	0900 0.5	0900 0.5	0900 0.6	0900 0.7
1000 0.8	1000 0.8	1000 0.7	1000 0.6	1000 0.5	1000 0.4	1000 0.3	1000 0.3	1000 0.3	1000 0.4	1000 0.4	1000 0.5	1000 0.5	1000 0.6	1000 0.8
1100 0.8	1100 0.9	1100 0.8	1100 0.8	1100 0.7	1100 0.6	1100 0.5	1100 0.4	1100 0.4	1100 0.4	1100 0.4	1100 0.5	1100 0.5	1100 0.6	1100 0.9
1200 0.8	1200 0.9	1200 0.9	1200 0.9	1200 0.8	1200 0.7	1200 0.6	1200 0.6	1200 0.5	1200 0.5	1200 0.5	1200 0.6	1200 0.6	1200 0.7	1200 0.9
1300 0.9	1300 1.0	1300 1.0	1300 1.0	1300 1.0	1300 0.9	1300 0.8	1300 0.7	1300 0.6	1300 0.6	1300 0.6	1300 0.7	1300 0.7	1300 0.8	1300 0.9
1400 0.9	1400 1.0	1400 1.0	1400 1.1	1400 1.1	1400 1.0	1400 0.9	1400 0.8	1400 0.8	1400 0.7	1400 0.7	1400 0.7	1400 0.8	1400 0.8	1400 0.9
1500 0.8	1500 0.9	1500 1.0	1500 1.1	1500 1.1	1500 1.0	1500 0.9	1500 0.9	1500 0.9	1500 0.8	1500 0.8	1500 0.8	1500 0.8	1500 0.8	1500 0.9
1600 0.8	1600 0.9	1600 0.9	1600 1.0	1600 1.0	1600 1.0	1600 1.0	1600 1.0	1600 0.9	1600 0.9	1600 0.8	1600 0.8	1600 0.8	1600 0.8	1600 0.8
1700 0.7	1700 0.8	1700 0.8	1700 0.9	1700 0.9	1700 1.0	1700 1.0	1700 0.9	1700 0.9	1700 0.9	1700 0.8	1700 0.8	1700 0.8	1700 0.8	1700 0.8
1800 0.7	1800 0.7	1800 0.8	1800 0.8	1800 0.9	1800 0.9	1800 0.9	1800 0.9	1800 0.8	1800 0.8	1800 0.8	1800 0.8	1800 0.8	1800 0.7	1800 0.7
1900 0.6	1900 0.6	1900 0.7	1900 0.7	1900 0.8	1900 0.8	1900 0.8	1900 0.8	1900 0.8	1900 0.7	1900 0.7	1900 0.7	1900 0.7	1900 0.7	1900 0.7
2000 0.6	2000 0.6	2000 0.6	2000 0.6	2000 0.7	2000 0.7	2000 0.7	2000 0.7	2000 0.7	2000 0.7	2000 0.7	2000 0.7	2000 0.7	2000 0.7	2000 0.6
2100 0.6	2100 0.6	2100 0.6	2100 0.6	2100 0.6	2100 0.7	2100 0.7	2100 0.7	2100 0.6	2100 0.6	2100 0.6	2100 0.6	2100 0.6	2100 0.6	2100 0.6
2200 0.6	2200 0.5	2200 0.6	2200 0.6	2200 0.6	2200 0.6	2200 0.7	2200 0.6	2200 0.6	2200 0.6	2200 0.6	2200 0.6	2200 0.6	2200 0.6	2200 0.6
2300 0.5	2300 0.5	2300 0.6	2300 0.6	2300 0.6	2300 0.6	2300 0.7	2300 0.7	2300 0.6	2300 0.6	2300 0.6	2300 0.5	2300 0.5	2300 0.6	2300 0.6

TABLE 3a : PREDICTED TIDAL HEIGHTS (M) IN THE Otway Basin (Pecten E-1, Netherby-1DW, Henry-2DW) AREA, 2008 - JUNE

DATUM : LAT (~0.65m < MSL)
 TIME ZONE : EST (-1000)



VSI Tool Evaluation Test Report

VSI Seismic Evaluation Report**ELECTRICAL NOISE LOW TEST**

2008/06/05 02:35:52

Shot No: 5

Station Depth: 260.15 m

Evaluation Item	Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result
DC Offset	1	X	-25.3814	milli V	-100.0000	100.0000	PASS
RMS Noise Level	1	X	0.1204	micro V	-	0.5000	PASS
Noise Peak	1	X	0.5200	micro V	-	2.0000	PASS
DC Offset	1	Y	-25.4425	milli V	-100.0000	100.0000	PASS
RMS Noise Level	1	Y	0.1227	micro V	-	0.5000	PASS
Noise Peak	1	Y	0.4915	micro V	-	2.0000	PASS
DC Offset	1	Z	-25.4338	milli V	-100.0000	100.0000	PASS
RMS Noise Level	1	Z	0.1215	micro V	-	0.5000	PASS
Noise Peak	1	Z	0.4632	micro V	-	2.0000	PASS
DC Offset	2	X	-25.1991	milli V	-100.0000	100.0000	PASS
RMS Noise Level	2	X	0.1202	micro V	-	0.5000	PASS
Noise Peak	2	X	0.3962	micro V	-	2.0000	PASS
DC Offset	2	Y	-25.2284	milli V	-100.0000	100.0000	PASS
RMS Noise Level	2	Y	0.1229	micro V	-	0.5000	PASS
Noise Peak	2	Y	0.4379	micro V	-	2.0000	PASS
DC Offset	2	Z	-25.3420	milli V	-100.0000	100.0000	PASS
RMS Noise Level	2	Z	0.1224	micro V	-	0.5000	PASS
Noise Peak	2	Z	0.4940	micro V	-	2.0000	PASS
DC Offset	3	X	-25.3081	milli V	-100.0000	100.0000	PASS
RMS Noise Level	3	X	0.1197	micro V	-	0.5000	PASS
Noise Peak	3	X	0.4594	micro V	-	2.0000	PASS
DC Offset	3	Y	-25.1772	milli V	-100.0000	100.0000	PASS
RMS Noise Level	3	Y	0.1192	micro V	-	0.5000	PASS
Noise Peak	3	Y	0.5081	micro V	-	2.0000	PASS
DC Offset	3	Z	-25.1801	milli V	-100.0000	100.0000	PASS
RMS Noise Level	3	Z	0.1212	micro V	-	0.5000	PASS
Noise Peak	3	Z	0.4123	micro V	-	2.0000	PASS
DC Offset	4	X	-25.2455	milli V	-100.0000	100.0000	PASS
RMS Noise Level	4	X	0.1181	micro V	-	0.5000	PASS
Noise Peak	4	X	0.4841	micro V	-	2.0000	PASS
DC Offset	4	Y	-25.3062	milli V	-100.0000	100.0000	PASS
RMS Noise Level	4	Y	0.1177	micro V	-	0.5000	PASS
Noise Peak	4	Y	0.3966	micro V	-	2.0000	PASS
DC Offset	4	Z	-25.2536	milli V	-100.0000	100.0000	PASS
RMS Noise Level	4	Z	0.1225	micro V	-	0.5000	PASS
Noise Peak	4	Z	0.4558	micro V	-	2.0000	PASS

ELECTRICAL NOISE HIGH TEST

2008/06/05 02:36:27

Shot No: 6

Station Depth: 260.15 m

Evaluation Item	Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result
DC Offset	1	X	-24.9466	milli V	-100.0000	100.0000	PASS
RMS Noise Level	1	X	0.1172	micro V	-	0.5000	PASS
Noise Peak	1	X	0.4448	micro V	-	2.0000	PASS
DC Offset	1	Y	-25.3411	milli V	-100.0000	100.0000	PASS
RMS Noise Level	1	Y	0.1208	micro V	-	0.5000	PASS
Noise Peak	1	Y	0.4813	micro V	-	2.0000	PASS
DC Offset	1	Z	-25.3981	milli V	-100.0000	100.0000	PASS
RMS Noise Level	1	Z	0.1209	micro V	-	0.5000	PASS
Noise Peak	1	Z	0.4991	micro V	-	2.0000	PASS
DC Offset	2	X	-25.1254	milli V	-100.0000	100.0000	PASS
RMS Noise Level	2	X	0.1210	micro V	-	0.5000	PASS
Noise Peak	2	X	0.4070	micro V	-	2.0000	PASS
DC Offset	2	Y	-25.2279	milli V	-100.0000	100.0000	PASS
RMS Noise Level	2	Y	0.1236	micro V	-	0.5000	PASS
Noise Peak	2	Y	0.5009	micro V	-	2.0000	PASS
DC Offset	2	Z	-25.1527	milli V	-100.0000	100.0000	PASS
RMS Noise Level	2	Z	0.1211	micro V	-	0.5000	PASS
Noise Peak	2	Z	0.4165	micro V	-	2.0000	PASS
DC Offset	3	X	-24.9204	milli V	-100.0000	100.0000	PASS
RMS Noise Level	3	X	0.1212	micro V	-	0.5000	PASS
Noise Peak	3	X	0.4856	micro V	-	2.0000	PASS

DC Offset	3	Y	-24.9848	milli V	-100.0000	100.0000	PASS
RMS Noise Level	3	Y	0.1182	micro V	-	0.5000	PASS
Noise Peak	3	Y	0.4956	micro V	-	2.0000	PASS
DC Offset	3	Z	-24.8644	milli V	-100.0000	100.0000	PASS
RMS Noise Level	3	Z	0.1188	micro V	-	0.5000	PASS
Noise Peak	3	Z	0.4254	micro V	-	2.0000	PASS
DC Offset	4	X	-24.9617	milli V	-100.0000	100.0000	PASS
RMS Noise Level	4	X	0.1152	micro V	-	0.5000	PASS
Noise Peak	4	X	0.4203	micro V	-	2.0000	PASS
DC Offset	4	Y	-25.3879	milli V	-100.0000	100.0000	PASS
RMS Noise Level	4	Y	0.1150	micro V	-	0.5000	PASS
Noise Peak	4	Y	0.3841	micro V	-	2.0000	PASS
DC Offset	4	Z	-24.1800	milli V	-100.0000	100.0000	PASS
RMS Noise Level	4	Z	0.1200	micro V	-	0.5000	PASS
Noise Peak	4	Z	0.3995	micro V	-	2.0000	PASS

ELECTRICAL DISTORTION TEST

2008/06/05 02:37:04

Shot No: 7

Station Depth: 260.15 m

Evaluation Item	Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result
Total Harmonic Distortion	1	X	-102.6392	dB	-	-90.0000	PASS
Total Harmonic Distortion	1	Y	-103.4150	dB	-	-90.0000	PASS
Total Harmonic Distortion	1	Z	-106.7448	dB	-	-90.0000	PASS
Total Harmonic Distortion	2	X	-106.0507	dB	-	-90.0000	PASS
Total Harmonic Distortion	2	Y	-107.6906	dB	-	-90.0000	PASS
Total Harmonic Distortion	2	Z	-103.0418	dB	-	-90.0000	PASS
Total Harmonic Distortion	3	X	-107.2698	dB	-	-90.0000	PASS
Total Harmonic Distortion	3	Y	-109.0162	dB	-	-90.0000	PASS
Total Harmonic Distortion	3	Z	-100.5521	dB	-	-90.0000	PASS
Total Harmonic Distortion	4	X	-113.0637	dB	-	-90.0000	PASS
Total Harmonic Distortion	4	Y	-115.1650	dB	-	-90.0000	PASS
Total Harmonic Distortion	4	Z	-109.4128	dB	-	-90.0000	PASS

SYSTEM DYNAMIC RANGE TEST

2008/06/05 02:37:26

Shot No: 8

Station Depth: 260.15 m

Evaluation Item	Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result
System Dynamic Range	1	X	107.8255	dB	103.0000	-	PASS
System Dynamic Range	1	Y	107.0513	dB	103.0000	-	PASS
System Dynamic Range	1	Z	107.4303	dB	103.0000	-	PASS
System Dynamic Range	2	X	107.7936	dB	103.0000	-	PASS
System Dynamic Range	2	Y	108.0239	dB	103.0000	-	PASS
System Dynamic Range	2	Z	107.5540	dB	103.0000	-	PASS
System Dynamic Range	3	X	108.2442	dB	103.0000	-	PASS
System Dynamic Range	3	Y	108.0405	dB	103.0000	-	PASS
System Dynamic Range	3	Z	108.0856	dB	103.0000	-	PASS
System Dynamic Range	4	X	107.4994	dB	103.0000	-	PASS
System Dynamic Range	4	Y	107.3421	dB	103.0000	-	PASS
System Dynamic Range	4	Z	107.4978	dB	103.0000	-	PASS

SYSTEM DYNAMIC RANGE TEST

2008/06/05 02:37:42

Shot No: 9

Station Depth: 260.15 m

Evaluation Item	Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result
System Dynamic Range	1	X	106.5445	dB	103.0000	-	PASS
System Dynamic Range	1	Y	106.4904	dB	103.0000	-	PASS
System Dynamic Range	1	Z	106.8095	dB	103.0000	-	PASS
System Dynamic Range	2	X	107.6074	dB	103.0000	-	PASS
System Dynamic Range	2	Y	107.9551	dB	103.0000	-	PASS
System Dynamic Range	2	Z	107.3362	dB	103.0000	-	PASS
System Dynamic Range	3	X	107.7712	dB	103.0000	-	PASS
System Dynamic Range	3	Y	107.7745	dB	103.0000	-	PASS
System Dynamic Range	3	Z	107.5308	dB	103.0000	-	PASS
System Dynamic Range	4	X	106.9733	dB	103.0000	-	PASS
System Dynamic Range	4	Y	107.0316	dB	103.0000	-	PASS
System Dynamic Range	4	Z	106.8941	dB	103.0000	-	PASS

AMPLIFIER GAIN 2 TEST

2008/06/05 02:38:32

Shot No: 10		Station Depth: 260.15 m					
Evaluation Item	Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result
Gain Accuracy	1	X	0.1496	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	1	X	0.0000	dB	-0.5000	0.5000	PASS
Gain Accuracy	1	Y	0.1481	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	1	Y	0.0000	dB	-0.5000	0.5000	PASS
Gain Accuracy	1	Z	0.1476	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	1	Z	0.0000	dB	-0.5000	0.5000	PASS
Gain Accuracy	2	X	0.1397	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	2	X	0.0000	dB	-0.5000	0.5000	PASS
Gain Accuracy	2	Y	0.1431	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	2	Y	0.0000	dB	-0.5000	0.5000	PASS
Gain Accuracy	2	Z	0.1553	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	2	Z	0.0000	dB	-0.5000	0.5000	PASS
Gain Accuracy	3	X	0.1402	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	3	X	0.0000	dB	-0.5000	0.5000	PASS
Gain Accuracy	3	Y	0.1321	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	3	Y	0.0000	dB	-0.5000	0.5000	PASS
Gain Accuracy	3	Z	0.1351	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	3	Z	0.0000	dB	-0.5000	0.5000	PASS
Gain Accuracy	4	X	0.1467	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	4	X	0.0000	dB	-0.5000	0.5000	PASS
Gain Accuracy	4	Y	0.1443	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	4	Y	0.0000	dB	-0.5000	0.5000	PASS
Gain Accuracy	4	Z	0.1489	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	4	Z	0.0000	dB	-0.5000	0.5000	PASS
AMPLIFIER GAIN 4 TEST							
2008/06/05 02:38:42							
Shot No: 11		Station Depth: 260.15 m					
Evaluation Item	Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result
Gain Accuracy	1	X	0.1465	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	1	X	0.0032	dB	-0.5000	0.5000	PASS
Gain Accuracy	1	Y	0.1477	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	1	Y	0.0004	dB	-0.5000	0.5000	PASS
Gain Accuracy	1	Z	0.1435	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	1	Z	0.0041	dB	-0.5000	0.5000	PASS
Gain Accuracy	2	X	0.1415	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	2	X	-0.0019	dB	-0.5000	0.5000	PASS
Gain Accuracy	2	Y	0.1407	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	2	Y	0.0024	dB	-0.5000	0.5000	PASS
Gain Accuracy	2	Z	0.1566	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	2	Z	-0.0012	dB	-0.5000	0.5000	PASS
Gain Accuracy	3	X	0.1383	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	3	X	0.0018	dB	-0.5000	0.5000	PASS
Gain Accuracy	3	Y	0.1334	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	3	Y	-0.0013	dB	-0.5000	0.5000	PASS
Gain Accuracy	3	Z	0.1321	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	3	Z	0.0030	dB	-0.5000	0.5000	PASS
Gain Accuracy	4	X	0.1435	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	4	X	0.0033	dB	-0.5000	0.5000	PASS
Gain Accuracy	4	Y	0.1405	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	4	Y	0.0037	dB	-0.5000	0.5000	PASS
Gain Accuracy	4	Z	0.1480	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	4	Z	0.0009	dB	-0.5000	0.5000	PASS
AMPLIFIER GAIN 8 TEST							
2008/06/05 02:38:52							
Shot No: 12		Station Depth: 260.15 m					
Evaluation Item	Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result
Gain Accuracy	1	X	0.1480	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	1	X	0.0017	dB	-0.5000	0.5000	PASS
Gain Accuracy	1	Y	0.1478	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	1	Y	0.0003	dB	-0.5000	0.5000	PASS
Gain Accuracy	1	Z	0.1430	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	1	Z	0.0046	dB	-0.5000	0.5000	PASS
Gain Accuracy	2	X	0.1428	dB	-0.5000	0.5000	PASS

Gain Step Accuracy	2	X	-0.0032	dB	-0.5000	0.5000	PASS
Gain Accuracy	2	Y	0.1396	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	2	Y	0.0035	dB	-0.5000	0.5000	PASS
Gain Accuracy	2	Z	0.1585	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	2	Z	-0.0032	dB	-0.5000	0.5000	PASS
Gain Accuracy	3	X	0.1365	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	3	X	0.0037	dB	-0.5000	0.5000	PASS
Gain Accuracy	3	Y	0.1356	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	3	Y	-0.0035	dB	-0.5000	0.5000	PASS
Gain Accuracy	3	Z	0.1319	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	3	Z	0.0032	dB	-0.5000	0.5000	PASS
Gain Accuracy	4	X	0.1424	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	4	X	0.0044	dB	-0.5000	0.5000	PASS
Gain Accuracy	4	Y	0.1391	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	4	Y	0.0052	dB	-0.5000	0.5000	PASS
Gain Accuracy	4	Z	0.1487	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	4	Z	0.0001	dB	-0.5000	0.5000	PASS

AMPLIFIER GAIN 16 TEST

2008/06/05 02:39:02

Shot No: 13

Station Depth: 260.15 m

Evaluation Item	Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result
Gain Accuracy	1	X	0.1449	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	1	X	0.0048	dB	-0.5000	0.5000	PASS
Gain Accuracy	1	Y	0.1452	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	1	Y	0.0029	dB	-0.5000	0.5000	PASS
Gain Accuracy	1	Z	0.1391	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	1	Z	0.0085	dB	-0.5000	0.5000	PASS
Gain Accuracy	2	X	0.1421	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	2	X	-0.0024	dB	-0.5000	0.5000	PASS
Gain Accuracy	2	Y	0.1367	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	2	Y	0.0064	dB	-0.5000	0.5000	PASS
Gain Accuracy	2	Z	0.1554	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	2	Z	-0.0001	dB	-0.5000	0.5000	PASS
Gain Accuracy	3	X	0.1343	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	3	X	0.0059	dB	-0.5000	0.5000	PASS
Gain Accuracy	3	Y	0.1317	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	3	Y	0.0004	dB	-0.5000	0.5000	PASS
Gain Accuracy	3	Z	0.1298	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	3	Z	0.0054	dB	-0.5000	0.5000	PASS
Gain Accuracy	4	X	0.1361	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	4	X	0.0106	dB	-0.5000	0.5000	PASS
Gain Accuracy	4	Y	0.1380	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	4	Y	0.0063	dB	-0.5000	0.5000	PASS
Gain Accuracy	4	Z	0.1436	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	4	Z	0.0053	dB	-0.5000	0.5000	PASS

AMPLIFIER GAIN 32 TEST

2008/06/05 02:39:12

Shot No: 14

Station Depth: 260.15 m

Evaluation Item	Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result
Gain Accuracy	1	X	0.1457	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	1	X	0.0039	dB	-0.5000	0.5000	PASS
Gain Accuracy	1	Y	0.1502	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	1	Y	-0.0022	dB	-0.5000	0.5000	PASS
Gain Accuracy	1	Z	0.1424	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	1	Z	0.0051	dB	-0.5000	0.5000	PASS
Gain Accuracy	2	X	0.1472	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	2	X	-0.0076	dB	-0.5000	0.5000	PASS
Gain Accuracy	2	Y	0.1406	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	2	Y	0.0025	dB	-0.5000	0.5000	PASS
Gain Accuracy	2	Z	0.1603	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	2	Z	-0.0050	dB	-0.5000	0.5000	PASS
Gain Accuracy	3	X	0.1363	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	3	X	0.0039	dB	-0.5000	0.5000	PASS
Gain Accuracy	3	Y	0.1314	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	3	Y	0.0007	dB	-0.5000	0.5000	PASS
Gain Accuracy	3	Z	0.1346	dB	-0.5000	0.5000	PASS

Gain Step Accuracy	3	Z	0.0005	dB	-0.5000	0.5000	PASS
Gain Accuracy	4	X	0.1356	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	4	X	0.0112	dB	-0.5000	0.5000	PASS
Gain Accuracy	4	Y	0.1380	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	4	Y	0.0062	dB	-0.5000	0.5000	PASS
Gain Accuracy	4	Z	0.1501	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	4	Z	-0.0012	dB	-0.5000	0.5000	PASS

CROSS TALK X TEST

2008/06/05 02:39:58

Shot No: 15

Station Depth: 260.15 m

Evaluation Item	Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result
Cross Talk X-Y	1	-	-100.3955	dB	-	-90.0000	PASS
Cross Talk X-Z	1	-	-100.4310	dB	-	-90.0000	PASS
Cross Talk X-Y	2	-	-100.2145	dB	-	-90.0000	PASS
Cross Talk X-Z	2	-	-100.5874	dB	-	-90.0000	PASS
Cross Talk X-Y	3	-	-100.5959	dB	-	-90.0000	PASS
Cross Talk X-Z	3	-	-100.2106	dB	-	-90.0000	PASS
Cross Talk X-Y	4	-	-100.5607	dB	-	-90.0000	PASS
Cross Talk X-Z	4	-	-100.3480	dB	-	-90.0000	PASS

CROSS TALK Y TEST

2008/06/05 02:40:35

Shot No: 16

Station Depth: 260.15 m

Evaluation Item	Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result
Cross Talk Y-Z	1	-	-100.3563	dB	-	-90.0000	PASS
Cross Talk Y-X	1	-	-99.9942	dB	-	-90.0000	PASS
Cross Talk Y-Z	2	-	-100.3601	dB	-	-90.0000	PASS
Cross Talk Y-X	2	-	-100.0872	dB	-	-90.0000	PASS
Cross Talk Y-Z	3	-	-100.2974	dB	-	-90.0000	PASS
Cross Talk Y-X	3	-	-99.9252	dB	-	-90.0000	PASS
Cross Talk Y-Z	4	-	-100.5599	dB	-	-90.0000	PASS
Cross Talk Y-X	4	-	-100.1267	dB	-	-90.0000	PASS

CROSS TALK Z TEST

2008/06/05 02:41:02

Shot No: 17

Station Depth: 260.15 m

Evaluation Item	Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result
Cross Talk Z-X	1	-	-99.3360	dB	-	-90.0000	PASS
Cross Talk Z-Y	1	-	-100.0851	dB	-	-90.0000	PASS
Cross Talk Z-X	2	-	-99.3289	dB	-	-90.0000	PASS
Cross Talk Z-Y	2	-	-99.7332	dB	-	-90.0000	PASS
Cross Talk Z-X	3	-	-99.3189	dB	-	-90.0000	PASS
Cross Talk Z-Y	3	-	-100.2091	dB	-	-90.0000	PASS
Cross Talk Z-X	4	-	-99.3666	dB	-	-90.0000	PASS
Cross Talk Z-Y	4	-	-100.4435	dB	-	-90.0000	PASS

IMPULSE RESPONSE TEST

2008/06/05 02:41:28

Shot No: 18

Station Depth: 260.15 m

Evaluation Item	Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result
Amplitude (0.3Hz)	1	X	-1.7038	dB	-5.0000	-	PASS
Amplitude (400Hz)	1	X	-3.5760	dB	-5.0000	-	PASS
Impulse Amplitude	1	X	574.1341	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	1	X	0.0000	degree	-	-	-
Amplitude (0.3Hz)	1	Y	-1.5569	dB	-5.0000	-	PASS
Amplitude (400Hz)	1	Y	-3.5769	dB	-5.0000	-	PASS
Impulse Amplitude	1	Y	574.0457	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	1	Y	-2.4023	degree	-	-	-
Amplitude (0.3Hz)	1	Z	-1.7070	dB	-5.0000	-	PASS
Amplitude (400Hz)	1	Z	-3.5758	dB	-5.0000	-	PASS
Impulse Amplitude	1	Z	574.0626	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	1	Z	1.4898	degree	-	-	-
Amplitude (0.3Hz)	2	X	-1.6638	dB	-5.0000	-	PASS
Amplitude (400Hz)	2	X	-3.5781	dB	-5.0000	-	PASS
Impulse Amplitude	2	X	574.5173	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	2	X	-0.1646	degree	-	-	-
Amplitude (0.3Hz)	2	Y	-1.6326	dB	-5.0000	-	PASS

Amplitude (400Hz)	2	Y	-3.5773	dB	-5.0000	-	PASS
Impulse Amplitude	2	Y	574.5914	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	2	Y	-0.5153	degree	-	-	-
Amplitude (0.3Hz)	2	Z	-1.6448	dB	-5.0000	-	PASS
Amplitude (400Hz)	2	Z	-3.5772	dB	-5.0000	-	PASS
Impulse Amplitude	2	Z	575.4627	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	2	Z	-0.8600	degree	-	-	-
Amplitude (0.3Hz)	3	X	-1.5310	dB	-5.0000	-	PASS
Amplitude (400Hz)	3	X	-3.5679	dB	-5.0000	-	PASS
Impulse Amplitude	3	X	573.4591	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	3	X	-1.5342	degree	-	-	-
Amplitude (0.3Hz)	3	Y	-1.5143	dB	-5.0000	-	PASS
Amplitude (400Hz)	3	Y	-3.5676	dB	-5.0000	-	PASS
Impulse Amplitude	3	Y	573.2428	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	3	Y	-1.7021	degree	-	-	-
Amplitude (0.3Hz)	3	Z	-1.5254	dB	-5.0000	-	PASS
Amplitude (400Hz)	3	Z	-3.5685	dB	-5.0000	-	PASS
Impulse Amplitude	3	Z	573.3328	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	3	Z	-1.9955	degree	-	-	-
Amplitude (0.3Hz)	4	X	-1.5333	dB	-5.0000	-	PASS
Amplitude (400Hz)	4	X	-3.5765	dB	-5.0000	-	PASS
Impulse Amplitude	4	X	574.7669	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	4	X	-1.3056	degree	-	-	-
Amplitude (0.3Hz)	4	Y	-1.5407	dB	-5.0000	-	PASS
Amplitude (400Hz)	4	Y	-3.5735	dB	-5.0000	-	PASS
Impulse Amplitude	4	Y	574.3447	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	4	Y	-1.1823	degree	-	-	-
Amplitude (0.3Hz)	4	Z	-1.6649	dB	-5.0000	-	PASS
Amplitude (400Hz)	4	Z	-3.5756	dB	-5.0000	-	PASS
Impulse Amplitude	4	Z	574.8884	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	4	Z	-0.2826	degree	-	-	-