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# Walkaway VSP S-mode Line-A Report

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## General Information

<b>Survey Type</b>	Walkaway VSP
<b>Surface Recording Length</b>	15500.0 ms
<b>Surface Sampling Rate</b>	2.0 ms
<b>Downhole Recording Length</b>	21500.0 ms
<b>Downhole Sampling Rate</b>	2.0 ms
<b>Top of Survey</b>	1730.0 m
<b>Bottom of Survey</b>	1800.0 m
<b>Number of Shots</b>	303
<b>Number of Downhole Traces</b>	2424
<b>Number of Downhole Traces used for Processing</b>	2302

**Borehole Seismic Source Information - Source 1**

Engineer: S. Nakanishi

Well Name: Naylor-1

Date: 18-May-2006

Rig: Rigless/ 15Ton Crane

Geometrical Coordinates

Longitude: 142 48' 30.43" E

Latitude: 38 31' 47.26" S

UTM Coordinates

Easting: 657634.25 m E

Northing: 5733850.49 m N

Permanent Datum: MSL

Log Measured From: DF

Elev. 51.1

Unit: m

Ground Elev. at Well Head 46.4

SRD (Seismic Reference Datum): MSL

Elev. 0.0

from SLB zero: 51.1

(SRDS)

Ground Elev. at VP: 46.4

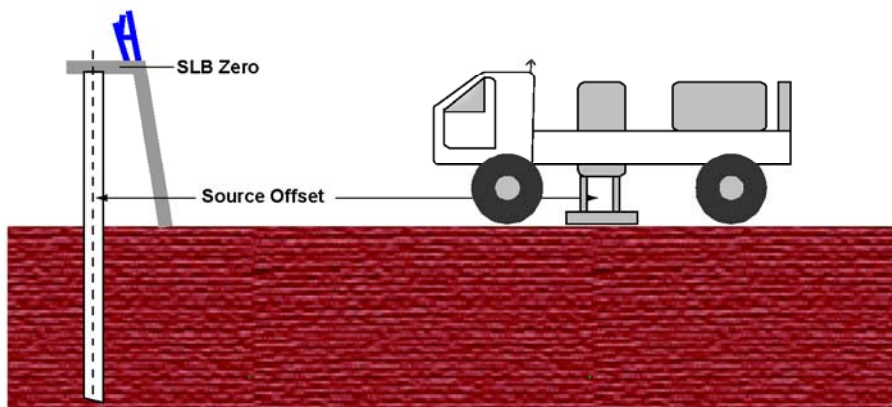
Gun Depth from SLB : 4.7 (GDSZ)

Gun Depth from SRD : -46.4

Gun Depth from GL (WH): 0.0

Ground Condition: Clay soil  
Flat terrain

Ground Water Level from GL: 1.0



Gun Azimuth (Grid North): N/A deg (GAZI)

Gun Offset: N/A (GOFF)

Vibrator: IVI MinVib T1500

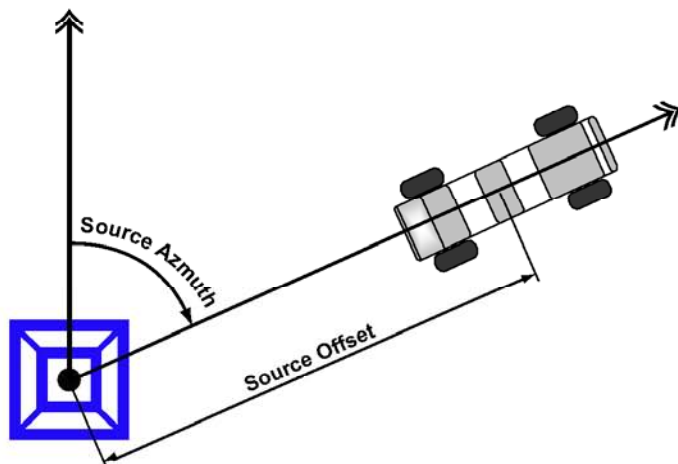
Controller - Encoder: RTS-100

Decoder: SIB-100

Version: ANSIR

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

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



**Sweep Parameters**

Start Frequency 10 Hz  
End Frequency 80 Hz  
Sweep Length 15 sec  
Start Taper 0.2 sec  
End Taper 0.2 sec  
Sweep Type Linear S-wave Mode  
VIB Sweep Phase N/A  
ESG Sweep Phase N/A  
Phase Lock Mode N/A  
Force Mode N/A

**Surface Velocity Survey (Rig Source only)**

Tool Measured Depth: N/A

Measured Transit Time: N/A ms  Reliable TT

Measured Surface Velocity: NA

Provided Surface Velocity by Client: m/sec

## Borehole Seismic Source Information

### Surface Sensor Channels

**WSAM (WSI)**

sn: **WSAM**: -AB 910

**WSI**: 1742

Pilot Signal

SSPS

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

### Quality Check Surface Signals

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

## Other Logs Information

<b>Sonic Log:</b>	<b>Interval:</b>	<b>from</b>	<b>to</b>	<b>Date:</b>
<b>Density Log:</b>	<b>Interval:</b>	<b>from</b>	<b>to</b>	<b>Date:</b>

### Remarks

MinVib T1500 used 10Hz to 80Hz linear sweep for 15 seconds. Baseplate used the shearwave plate for S-wave mode. PSS or QC signal is not available in the RTS-100 system.

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

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

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

Recording surface signals (WSAM) S1 - No input. S2 - FGF (15500 msec @ 2 msec sampling with TOFS 500 ms to avoid transit noise). Correlation Length 6000 msec. Downhole listening time is 21500 msec @ 2 msec sampling). Input impedance of the channel SS3 (S2) of WSAM-AB was changed from 462-ohm to 10K-ohm in order to obtain better dynamic range.

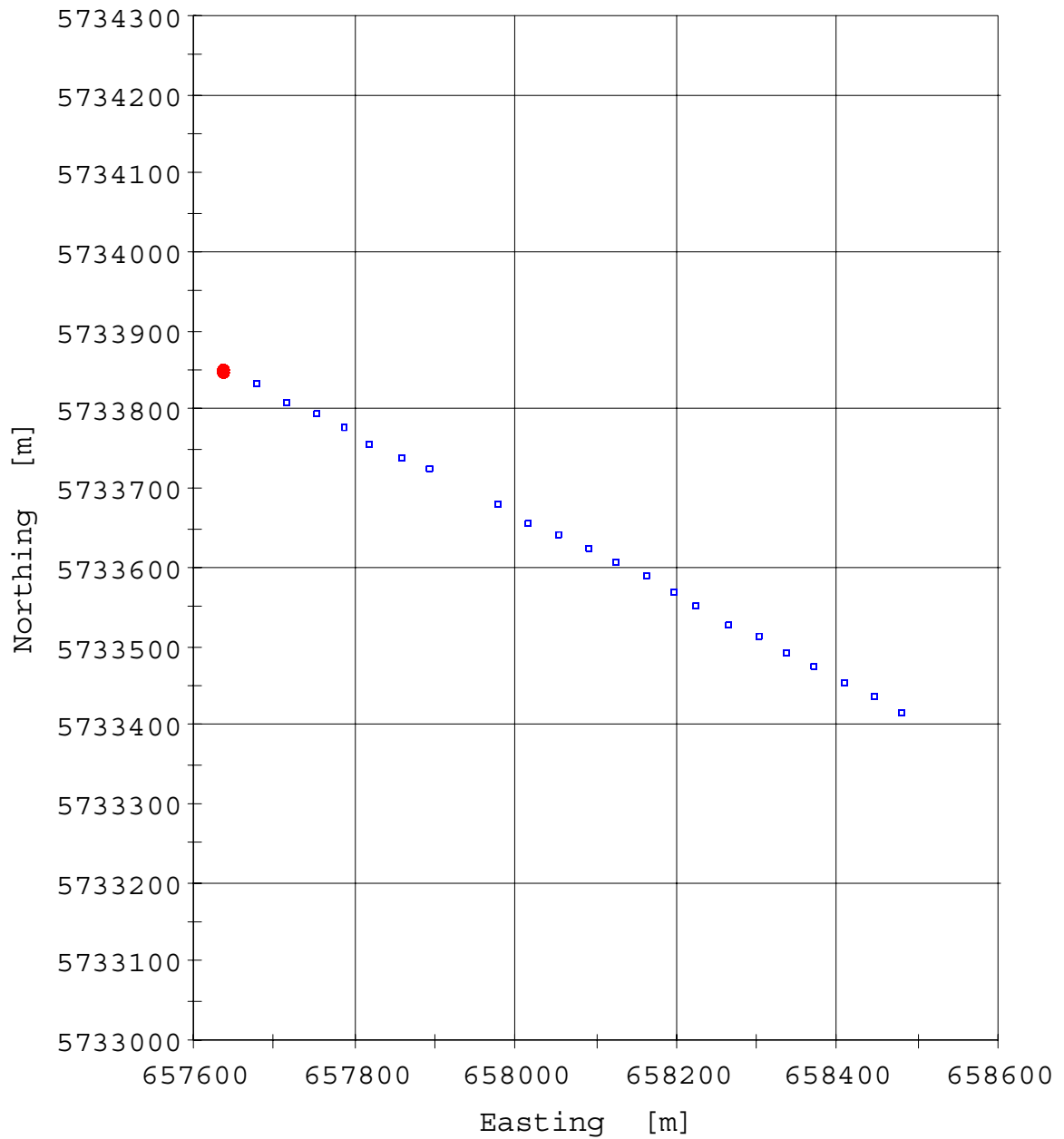
#### Detail T-1500 MinVib specification

- Max. Theoretical Peak Force: 6,000 Pounds
- Mass Piston Area: 1.50 Inches<sup>2</sup>
- Reaction Mass Weight: 311 Pounds
- Reaction Mass Stroke: 1.88 Inches
- Servovalve; 5 GPM
- Servovalve Pilot Filter: 3 Micron
- Baseplate Area: 1,018 Inches<sup>2</sup>
- Baseplate Assembly Weight: 370 Pounds
- Lift System Stroke: 38 Inches
- Lift Cylinder Diameter: 2.5 Inches
- Lift Synchronization: Mechanical Crossbeam
- Vibrator Pump Flow: 15 GPM @ 2100 RPM
- Holddown Weight: 10,000 Pounds



**S1 In-line mode**

Geometry Information Page (X-Y)



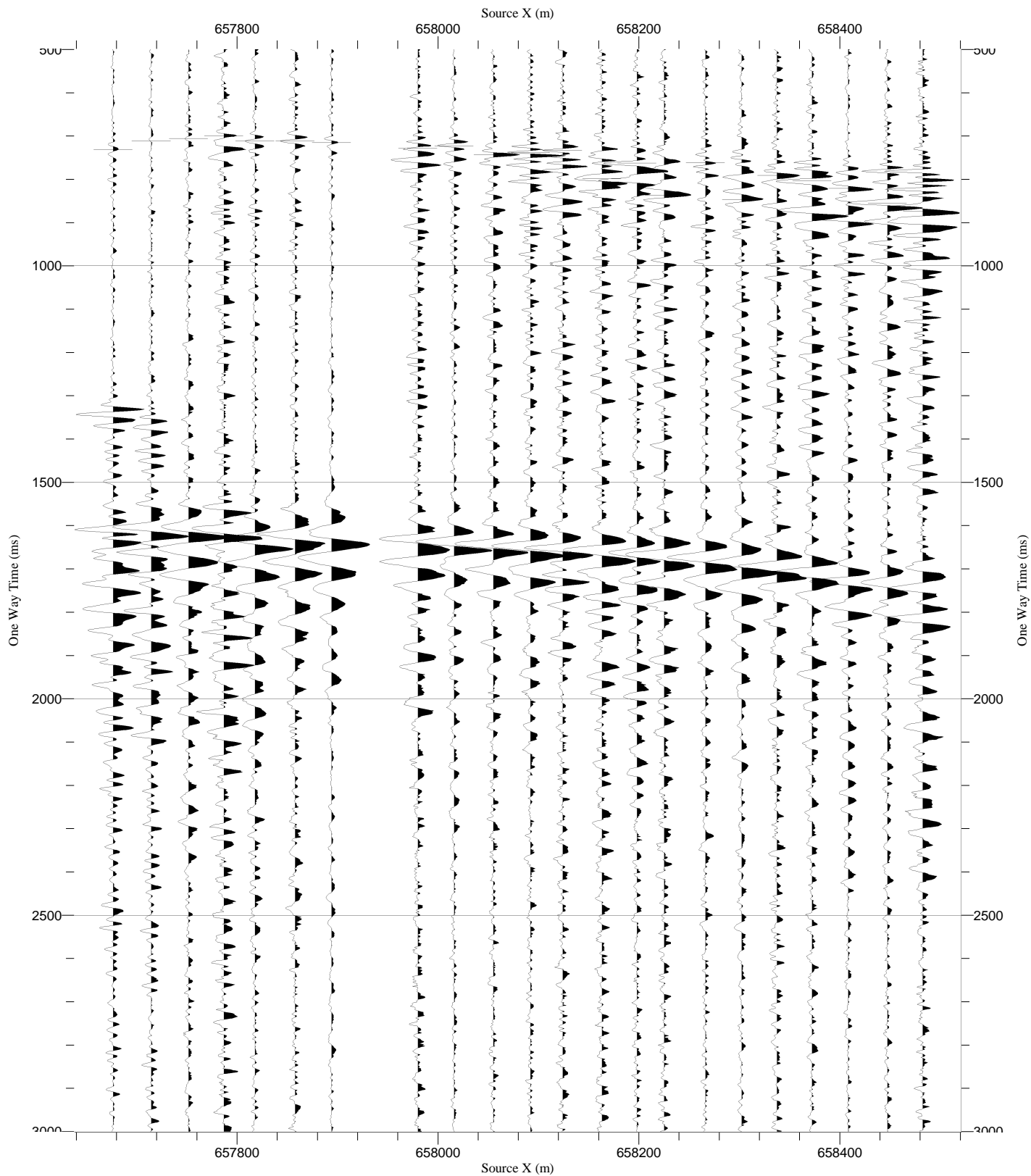
● Receiver Position  
□ Source Position

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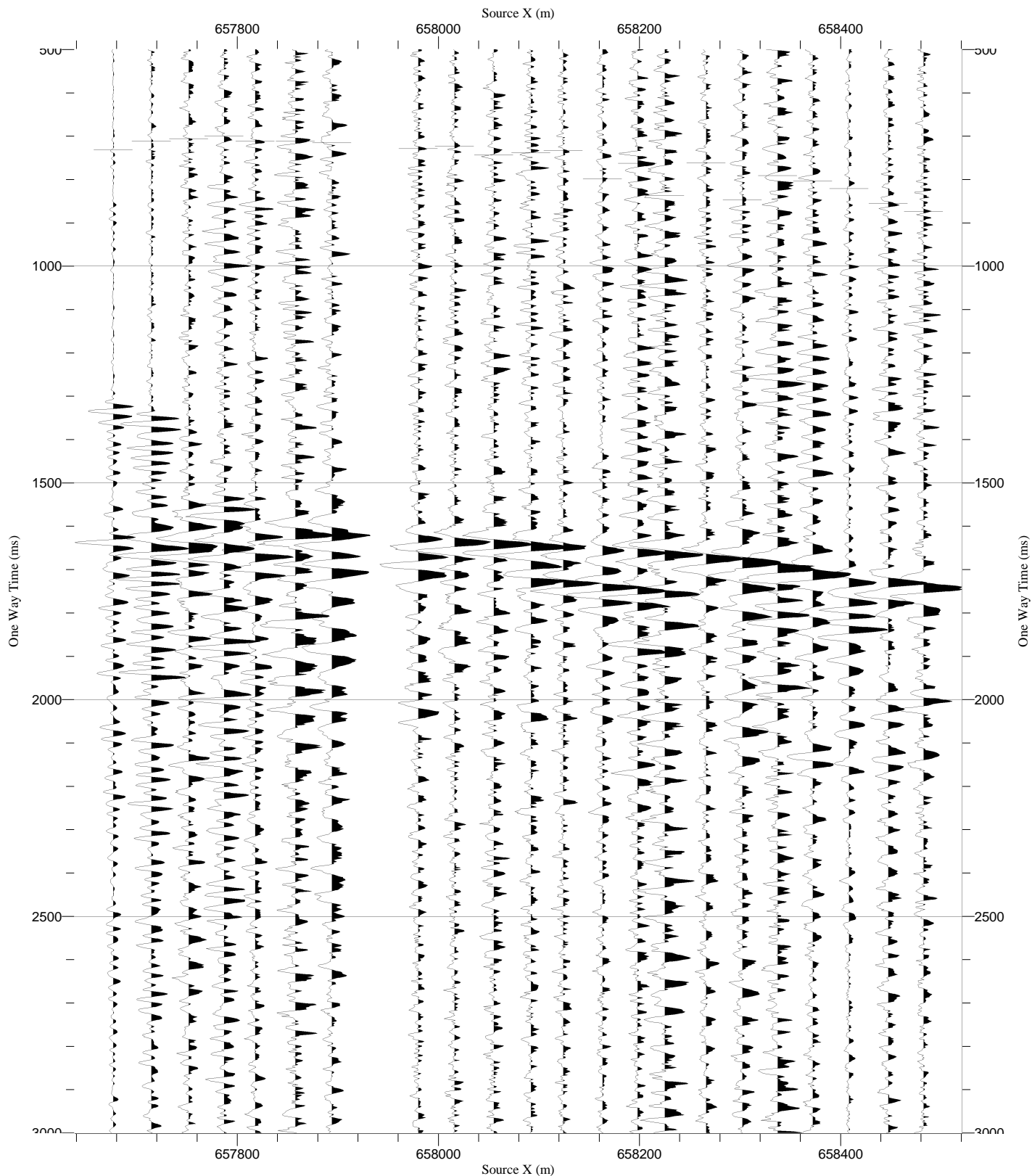
# **VSI-8**

**(1800 m receiver gather WVSP Inline-S Line-A)**

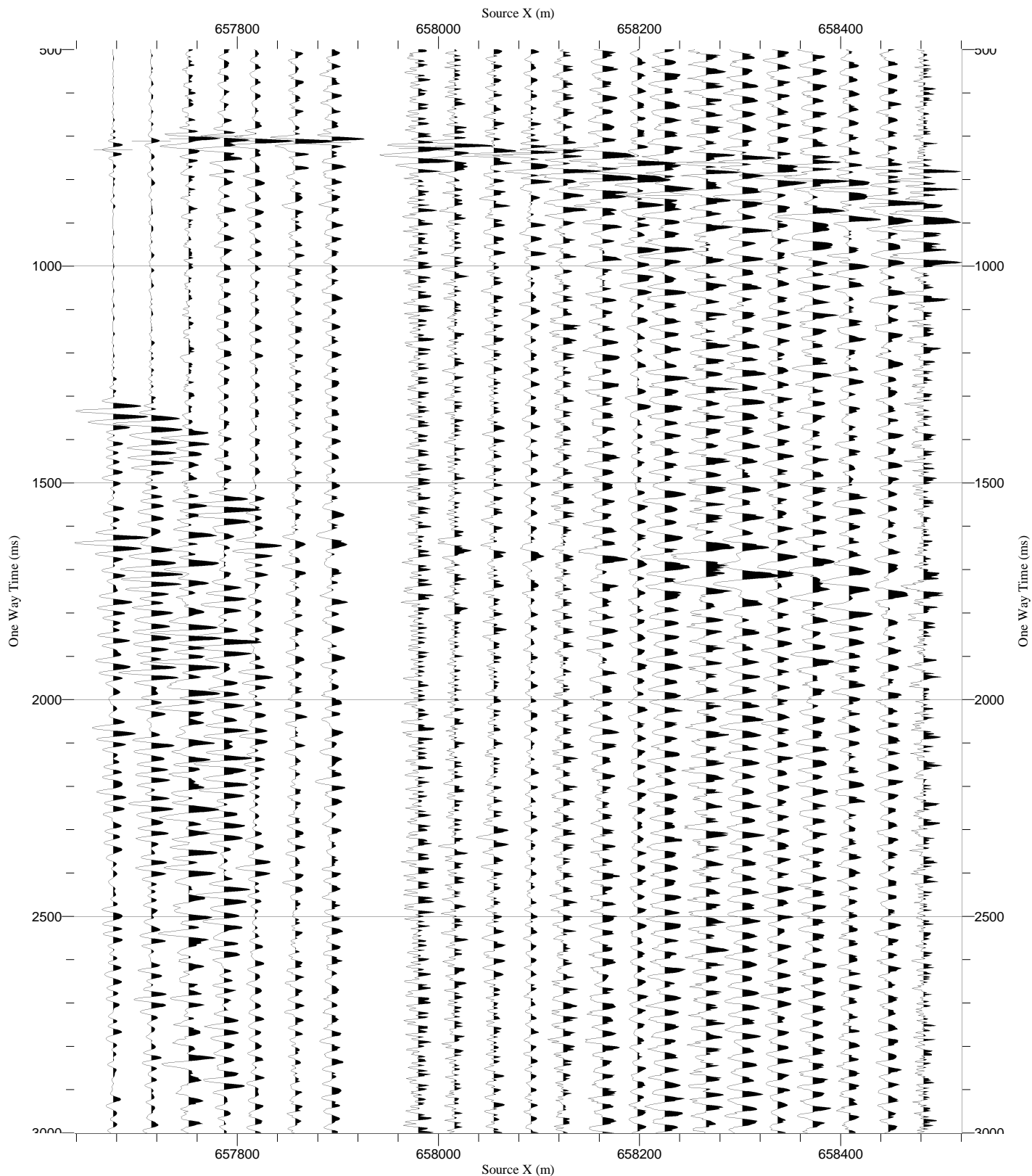
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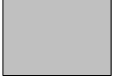


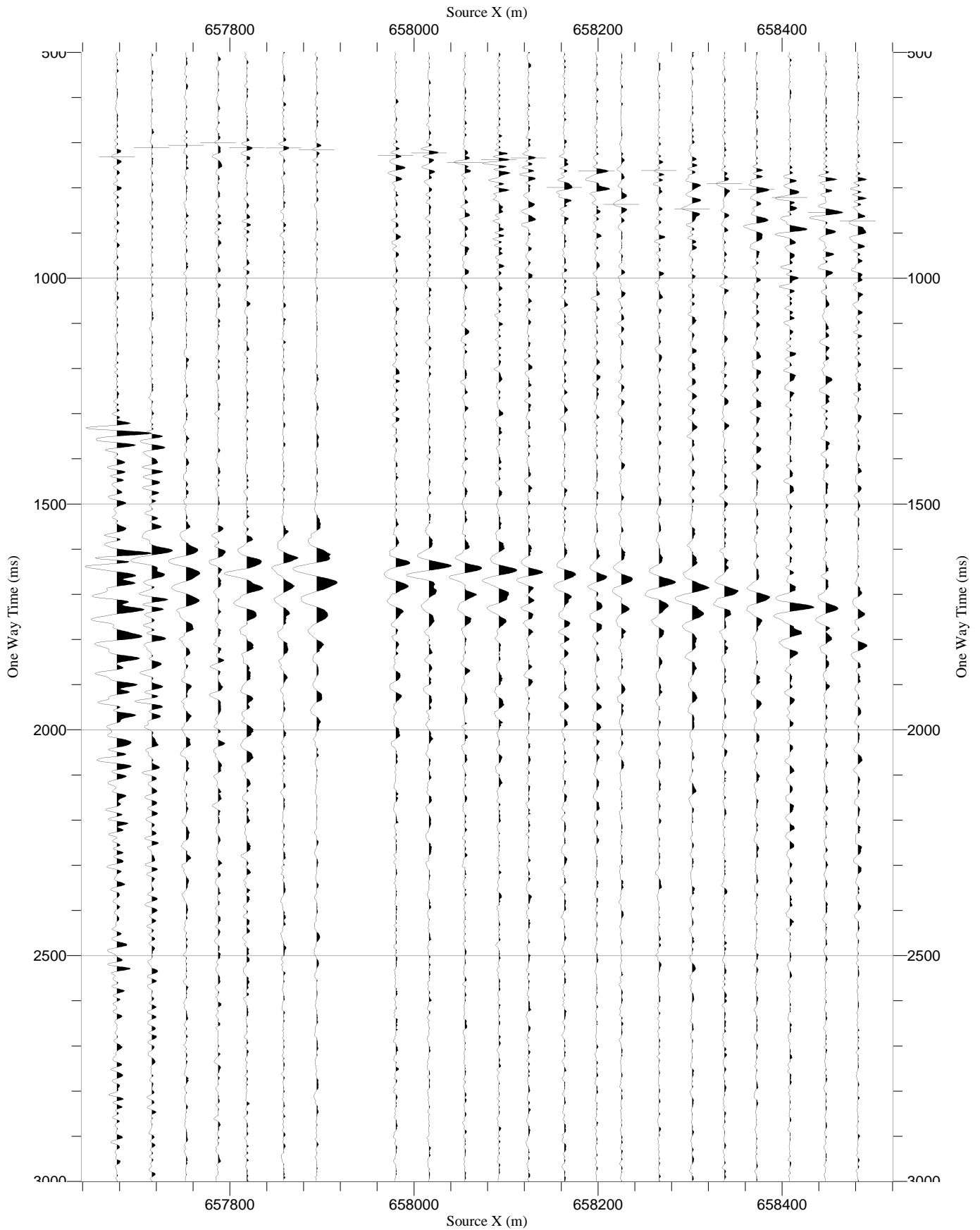





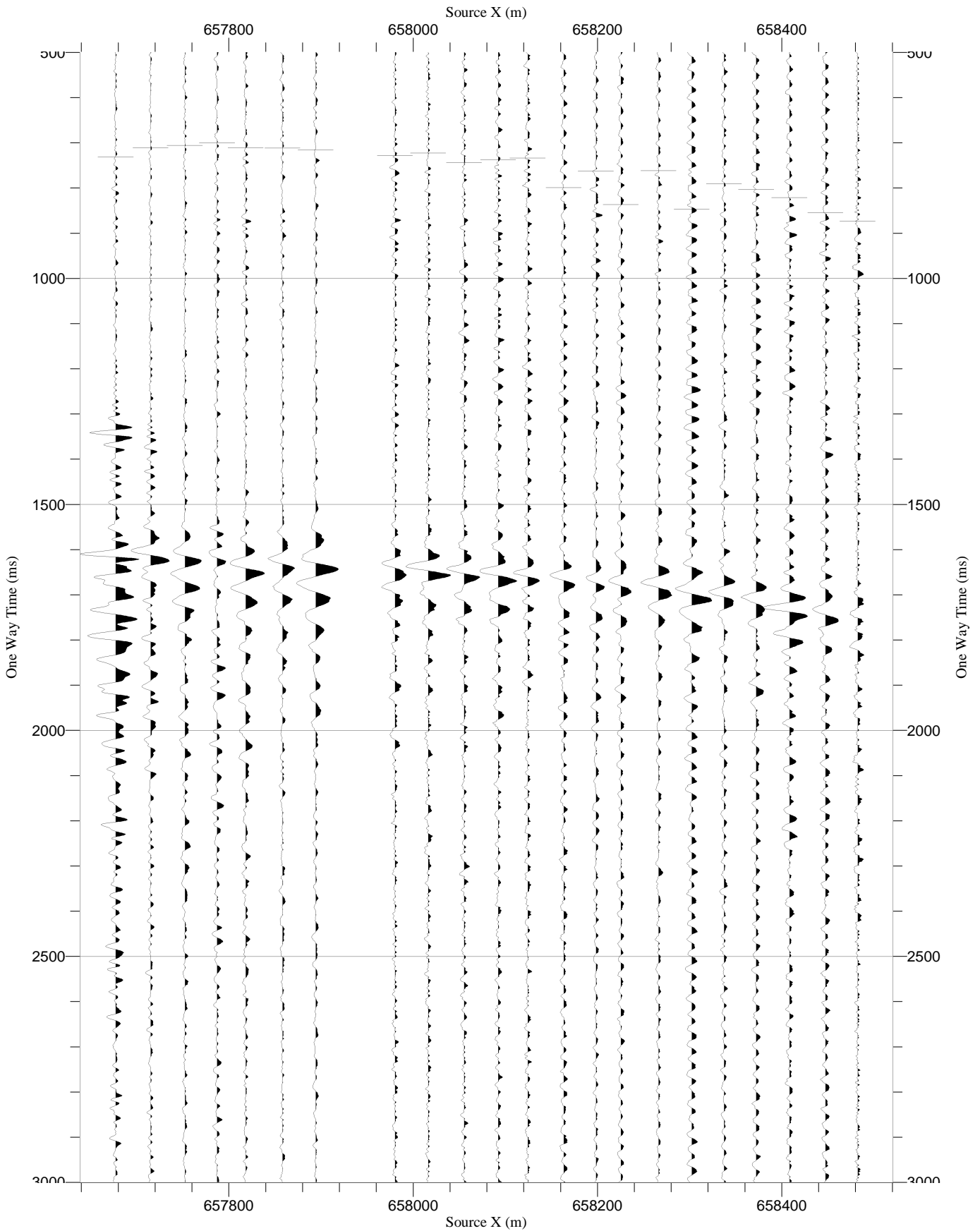




RawStack HMX-S1 VSI-8	Normalization Largest Trace in Gather (100%) Polarity Normal One Way Time (ms) Scaling 8.5 cm/sec, 1/5790	
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RawStack NRY-S1 VSI-8	Normalization Largest Trace in Gather (100%) Polarity Normal One Way Time (ms) Scaling 8.5 cm/sec, 1/5790	
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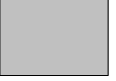


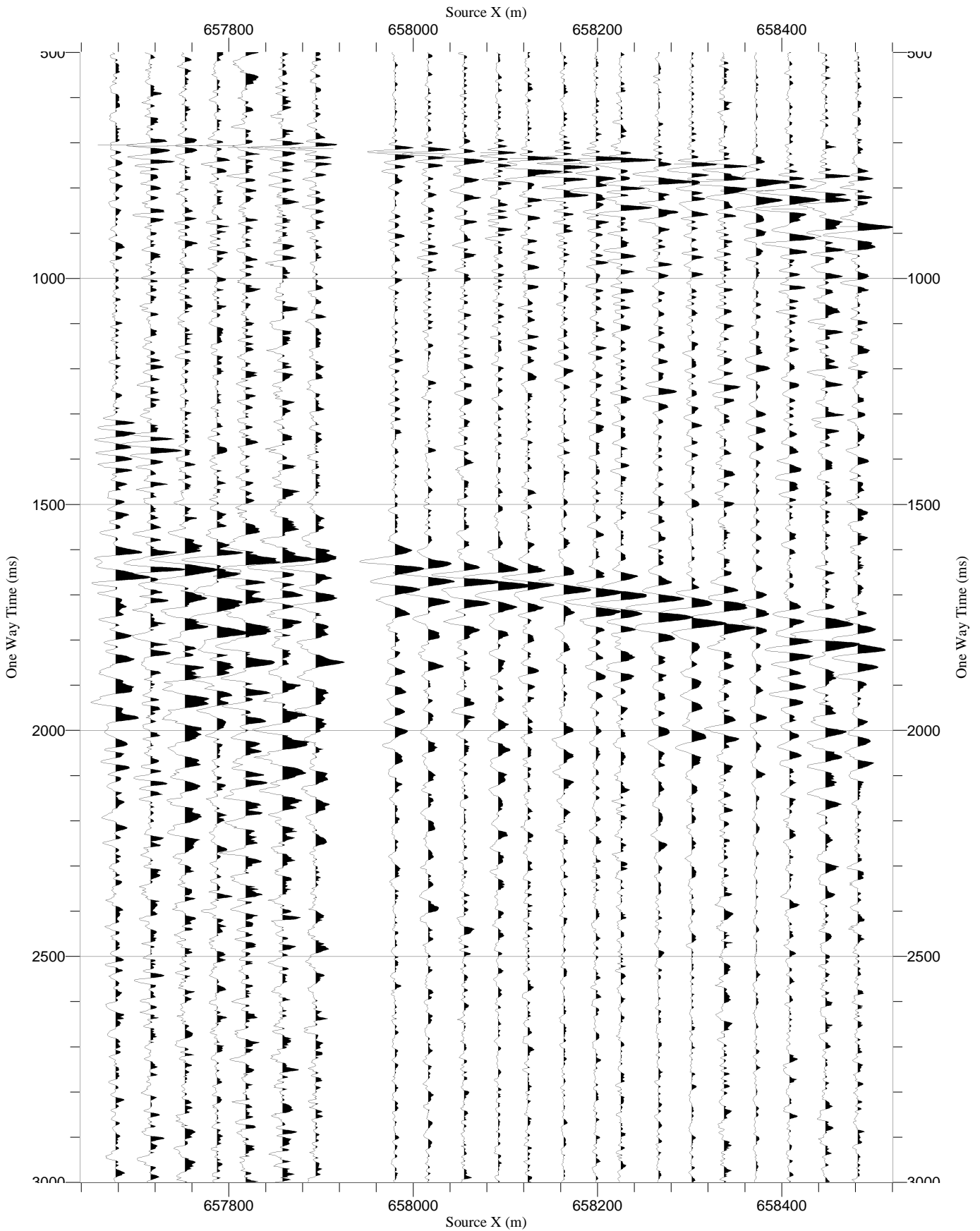
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# **VSI-8**

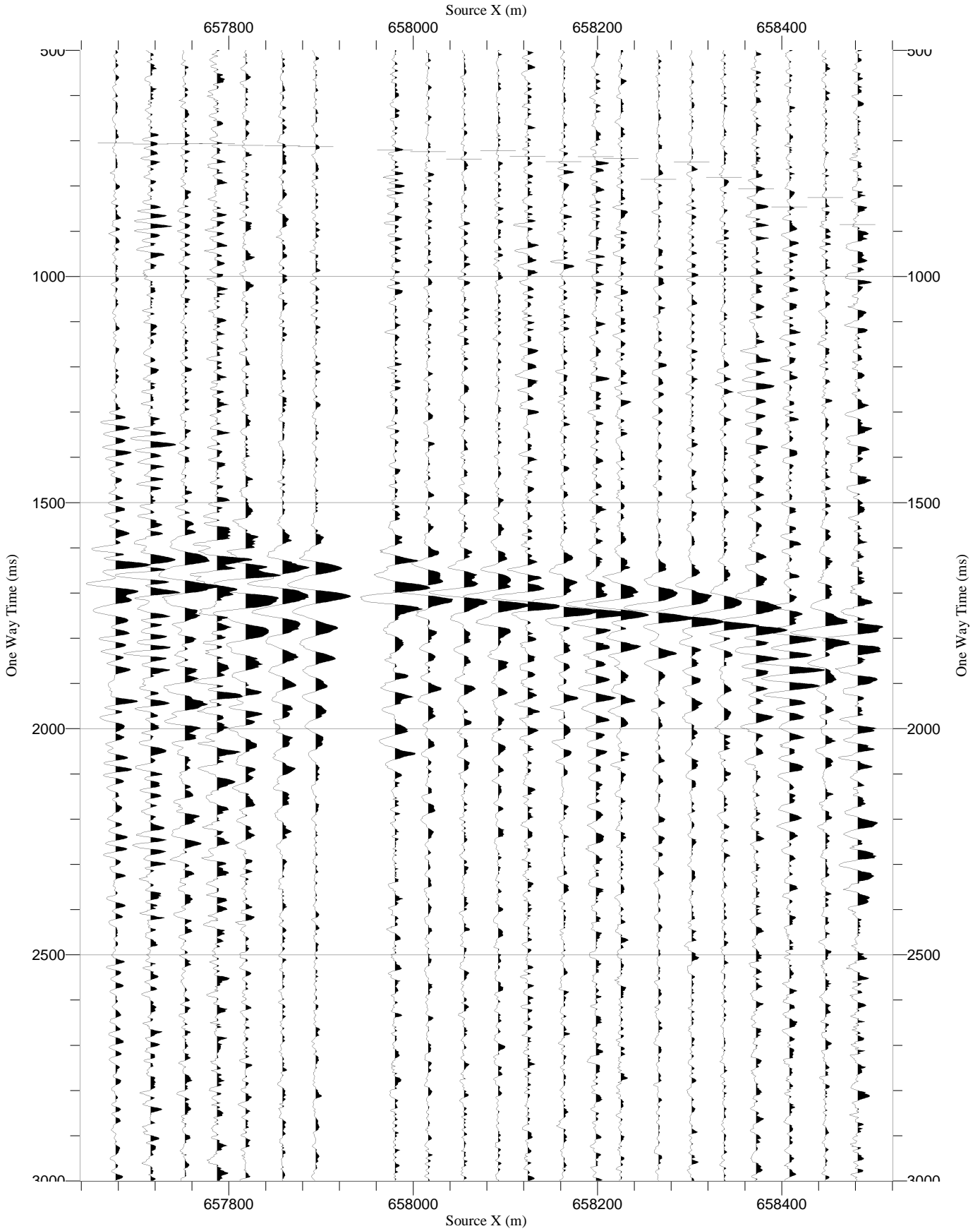
**(1800 m receiver gather WVSP Crossline-S Line-A)**


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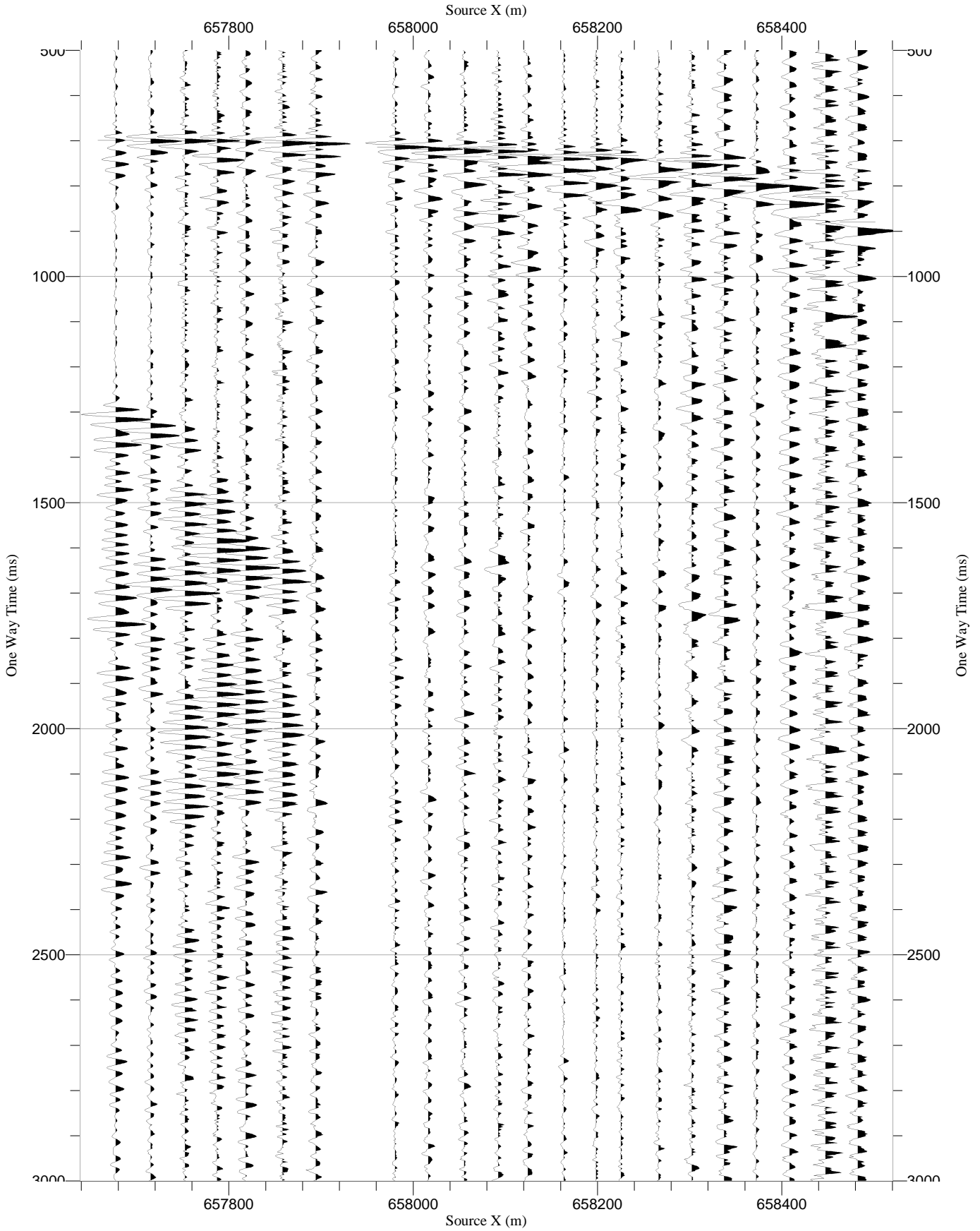
RawStack Z-S2 VSI-8	Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 8.5 cm/sec, 1/5790	
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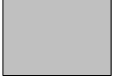
RawStack Y-S2 VSI-8	Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 8.5 cm/sec, 1/5790	
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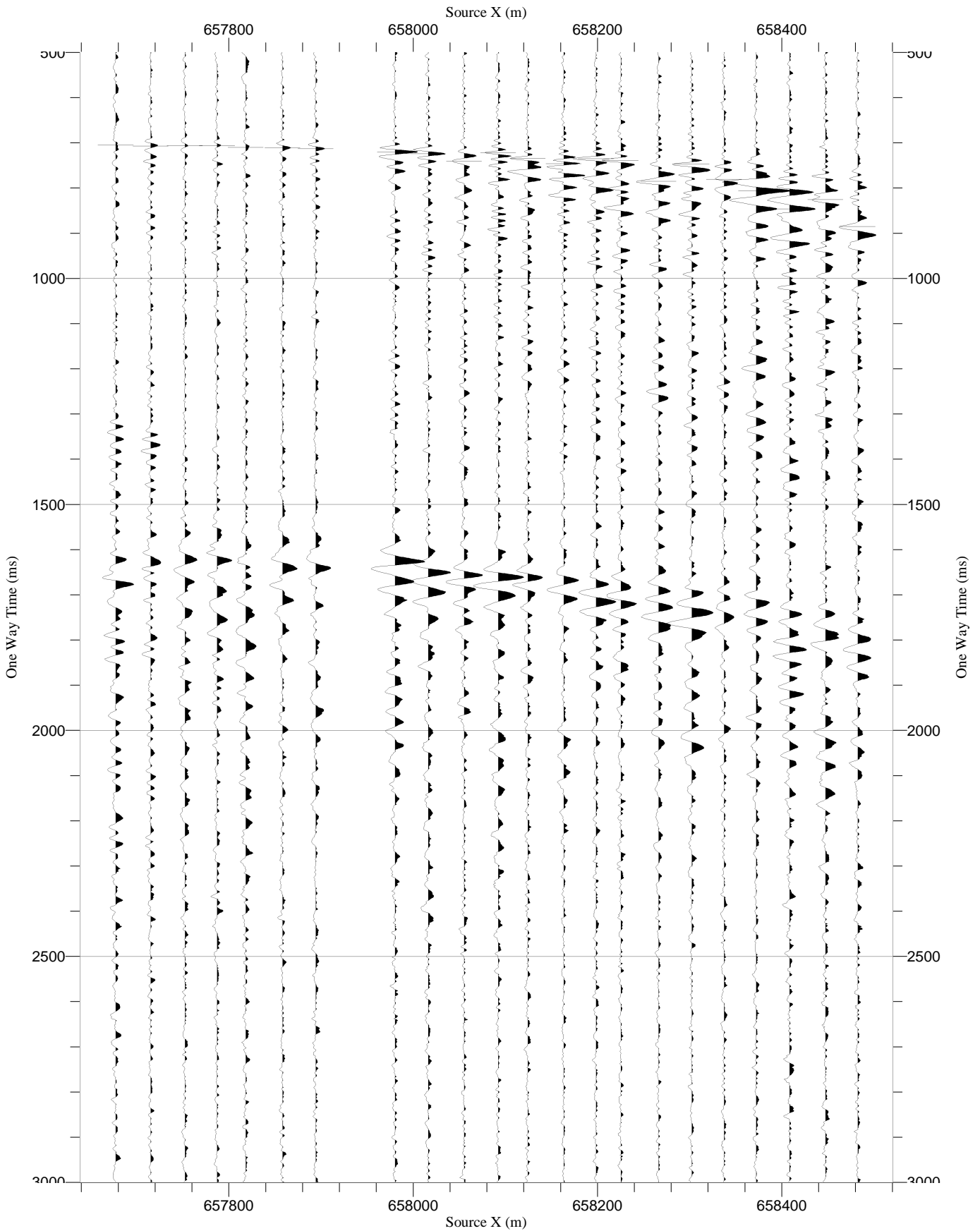



RawStack X-S2 VSI-6	Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 8.5 cm/sec, 1/5790	
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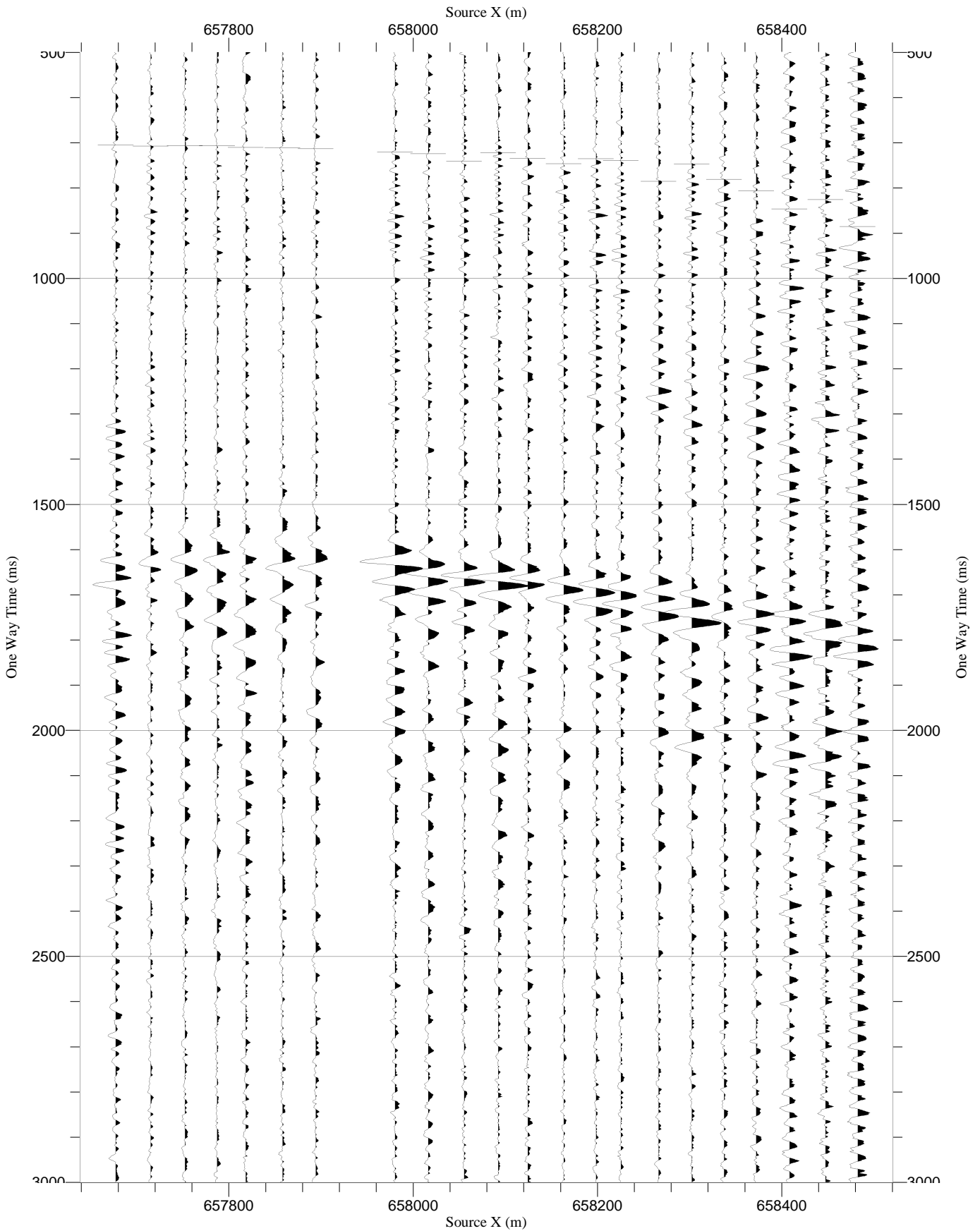




RawStack HMX-S2 VSI-8	Normalization Largest Trace in Gather (100%) Polarity Normal One Way Time (ms) Scaling 8.5 cm/sec, 1/5790	
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RawStack NRY-S2 VSI-8	Normalization Largest Trace in Gather (100%) Polarity Normal One Way Time (ms) Scaling 8.5 cm/sec, 1/5790	
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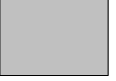


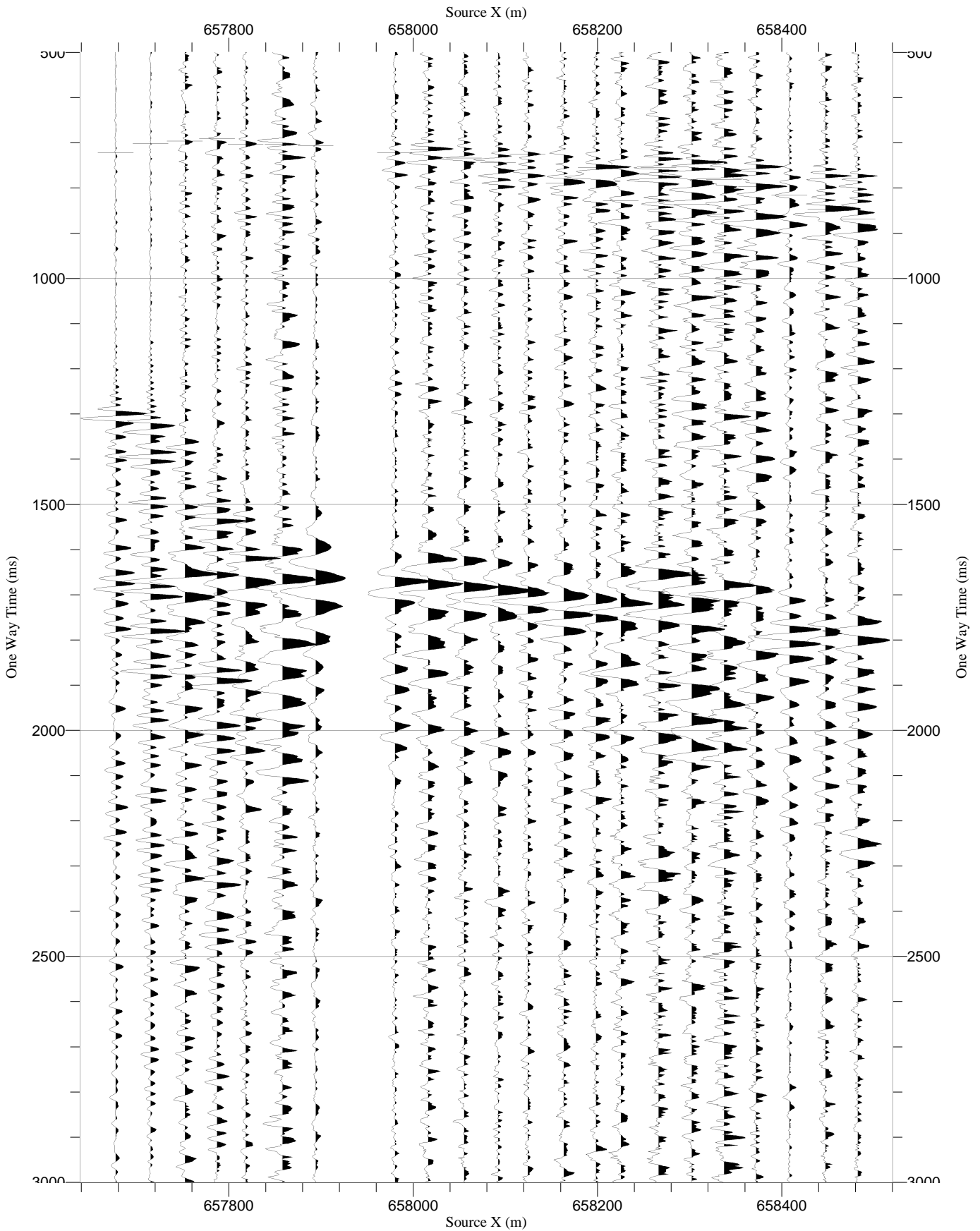
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# **VSI-5**

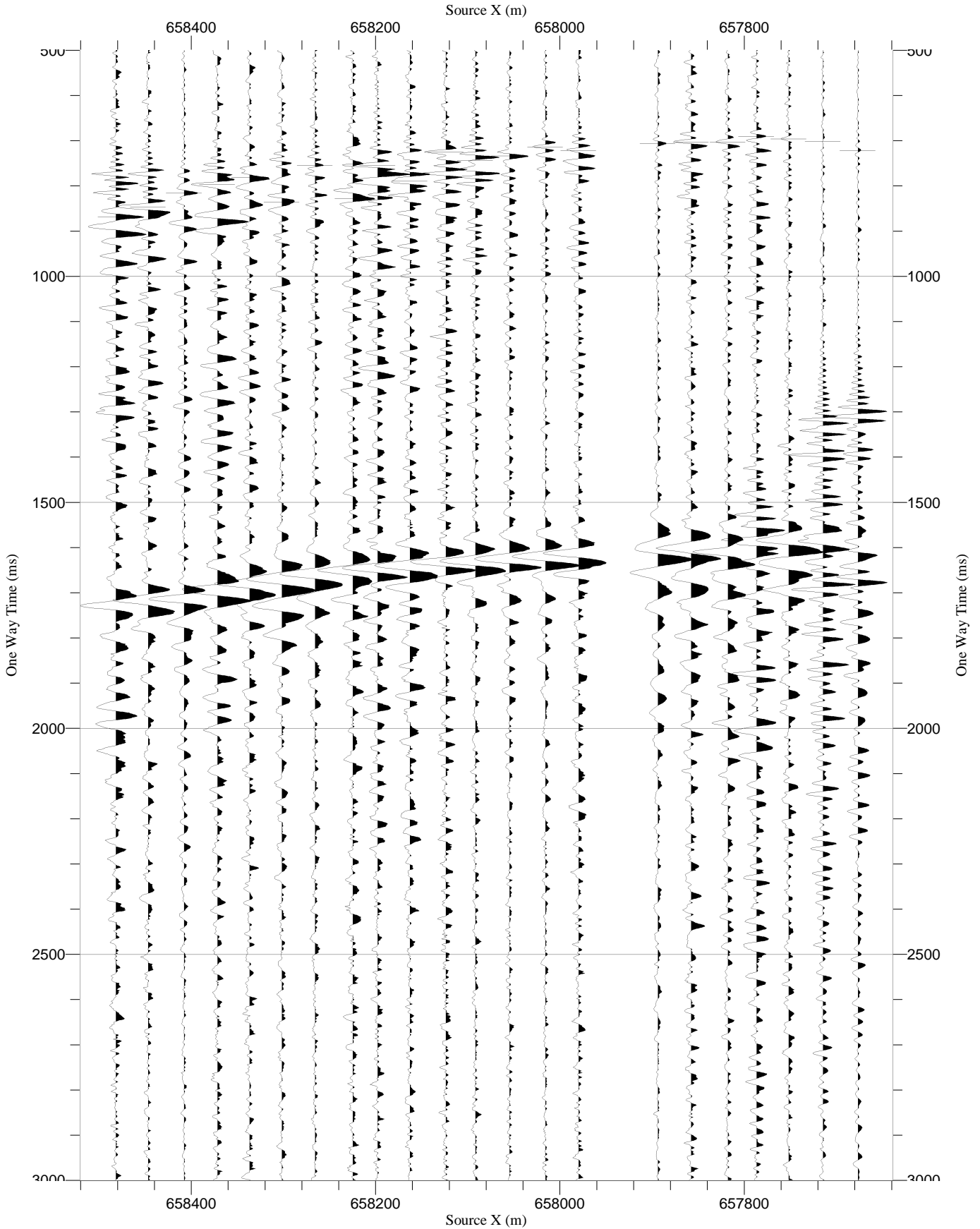
**(1770 m receiver gather WVSP Inline-S wave Line-A)**


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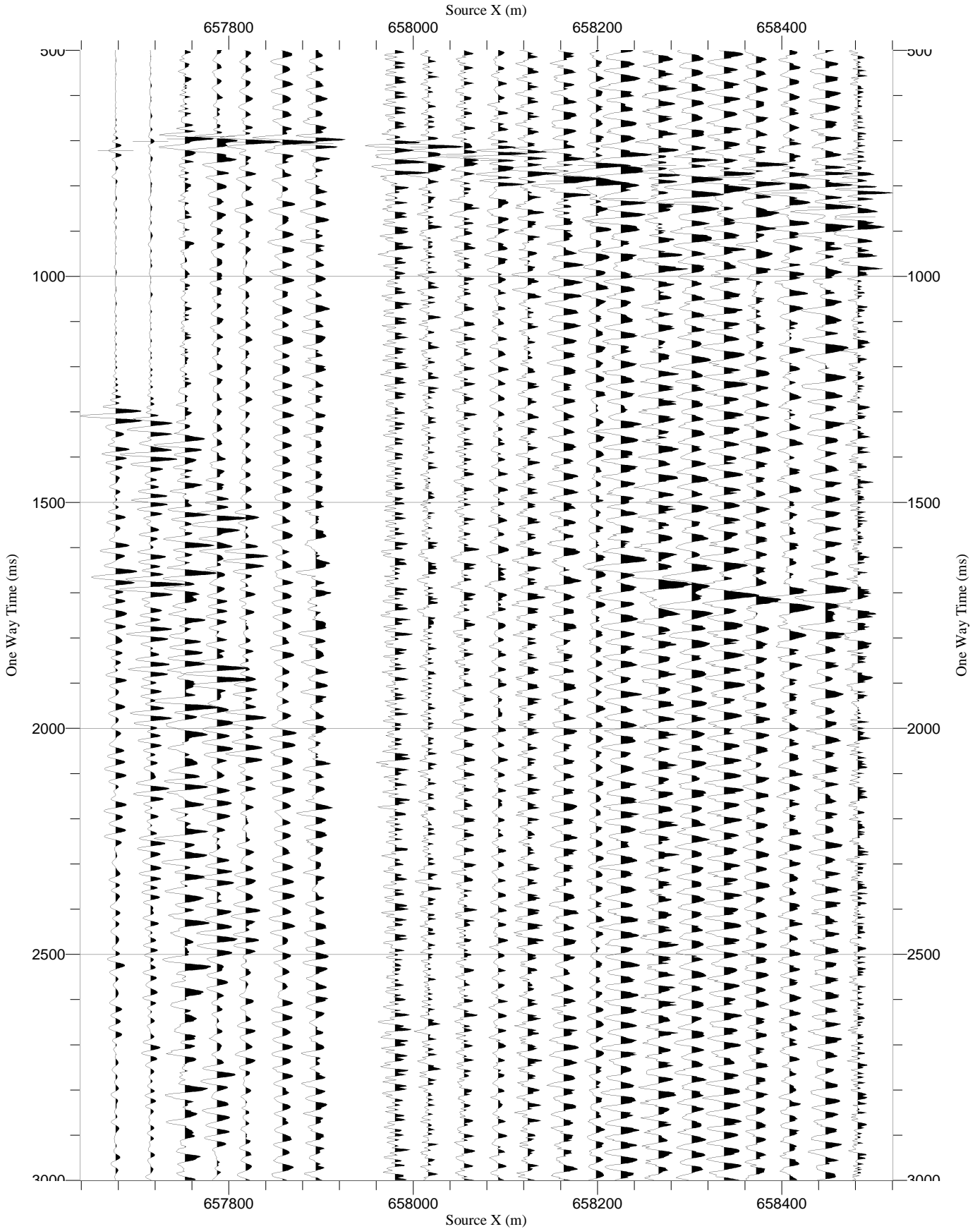
RawStack Z-S1 VSI-5	Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 8.5 cm/sec, 1/5790	
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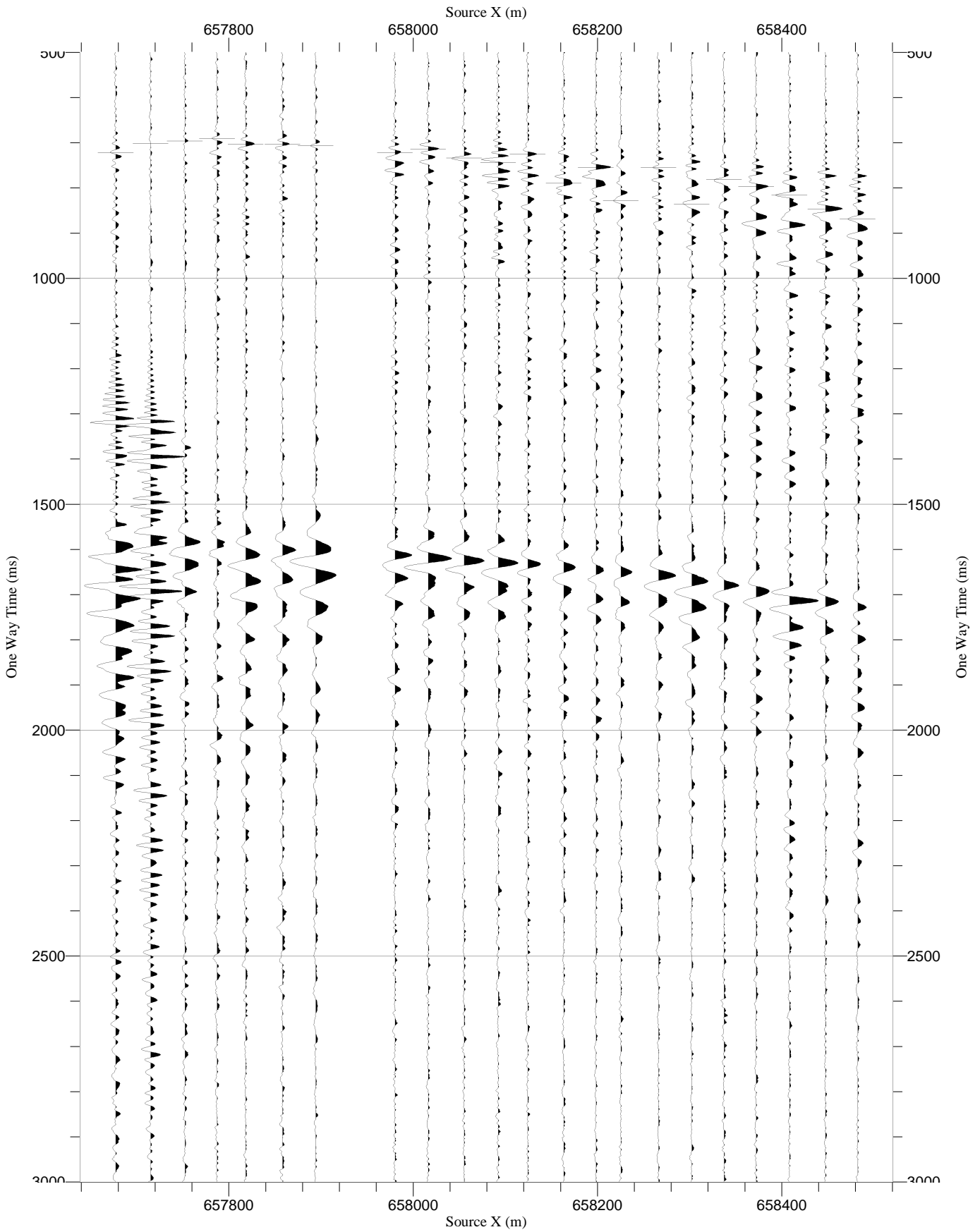
RawStack Y-S1 VSI-5	Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 8.5 cm/sec, 1/5790	
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RawStack X-S1 VSI-5	Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 8.5 cm/sec, 1/5790	
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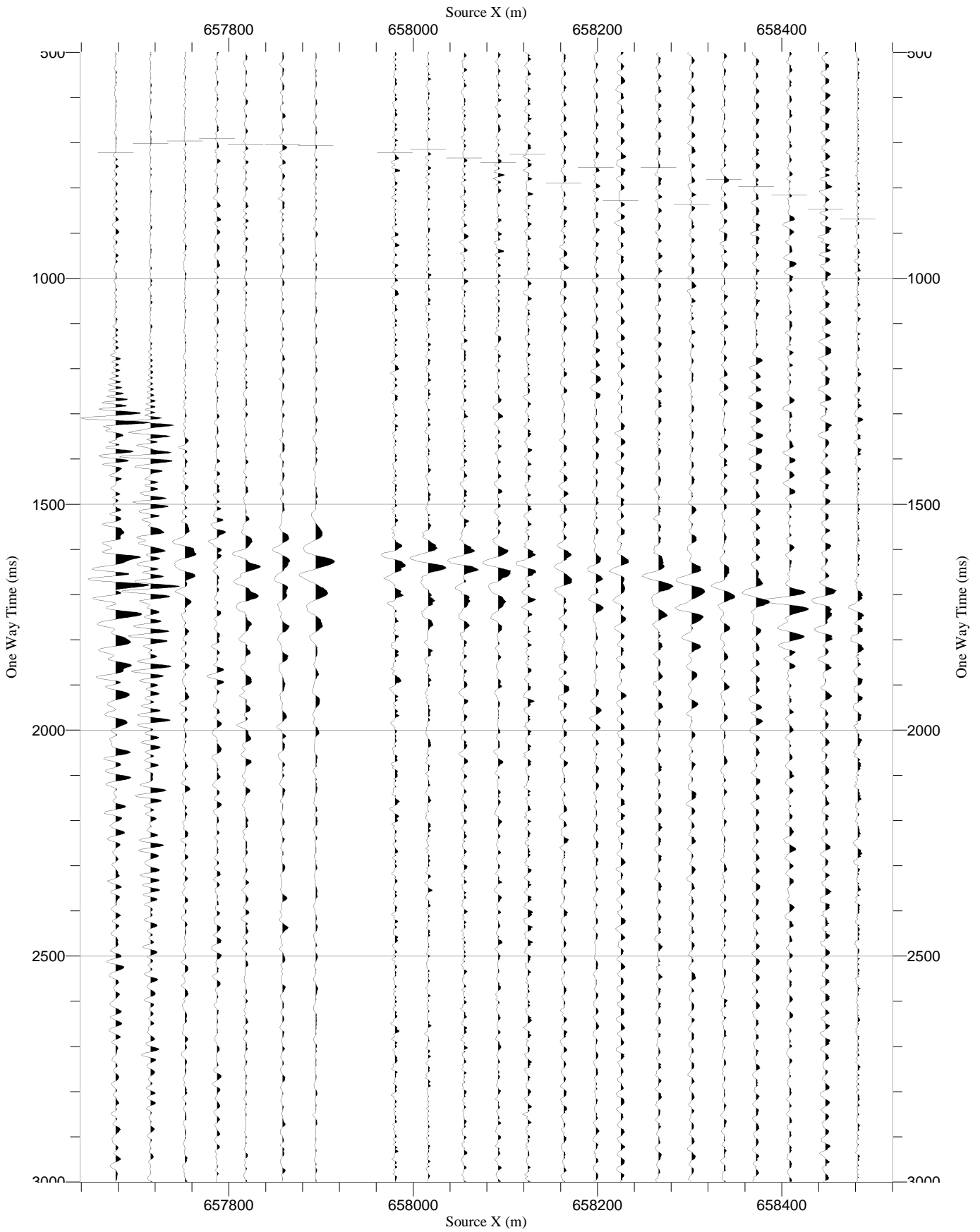


RawStack HMX-S1 VSI-5	Normalization Largest Trace in Gather (100%) Polarity Normal One Way Time (ms) Scaling 8.5 cm/sec, 1/5790	
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RawStack NRY-S1 VSI-5	Normalization Largest Trace in Gather (100%) Polarity Normal One Way Time (ms) Scaling 8.5 cm/sec, 1/5790	
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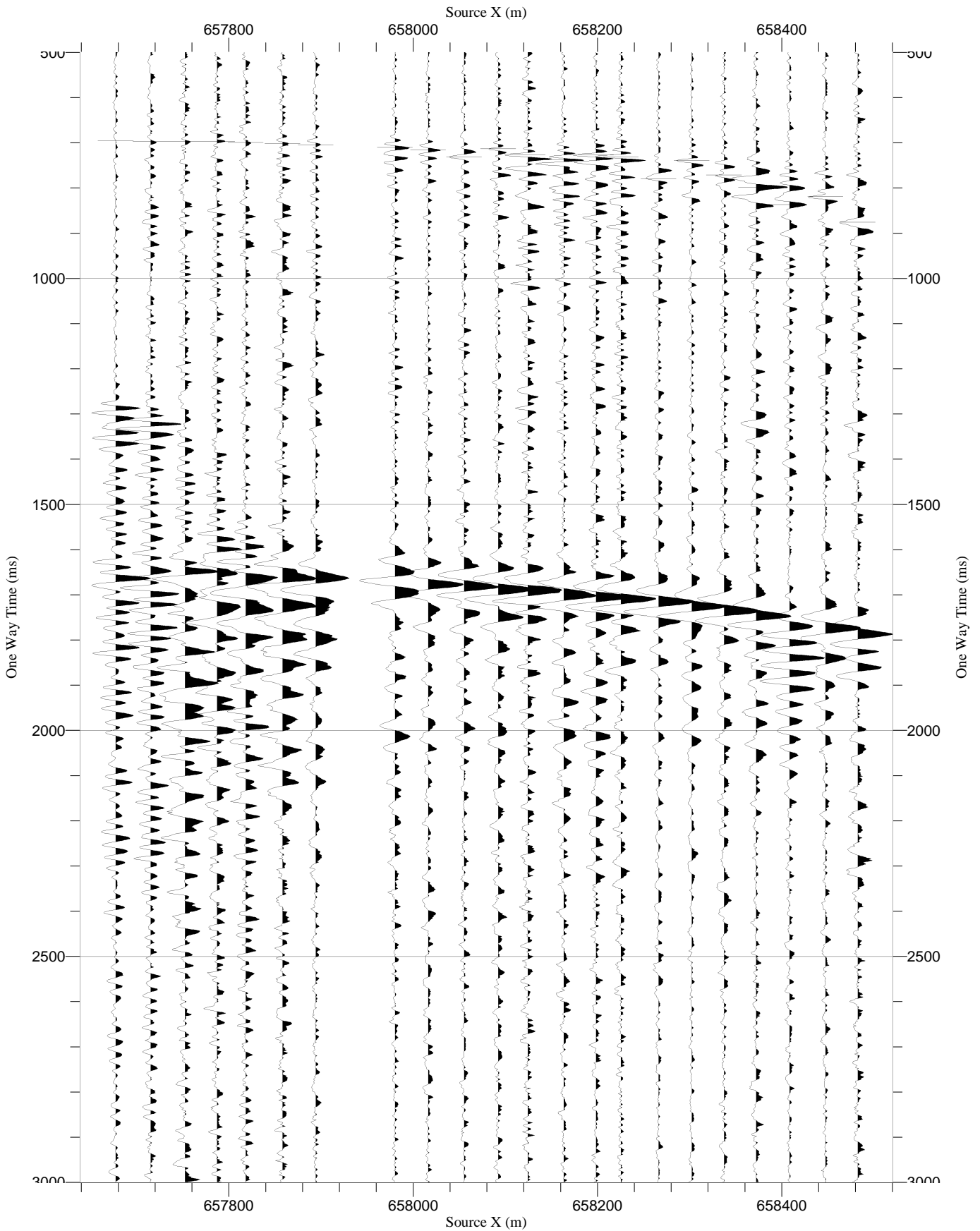
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# **VSI-5**

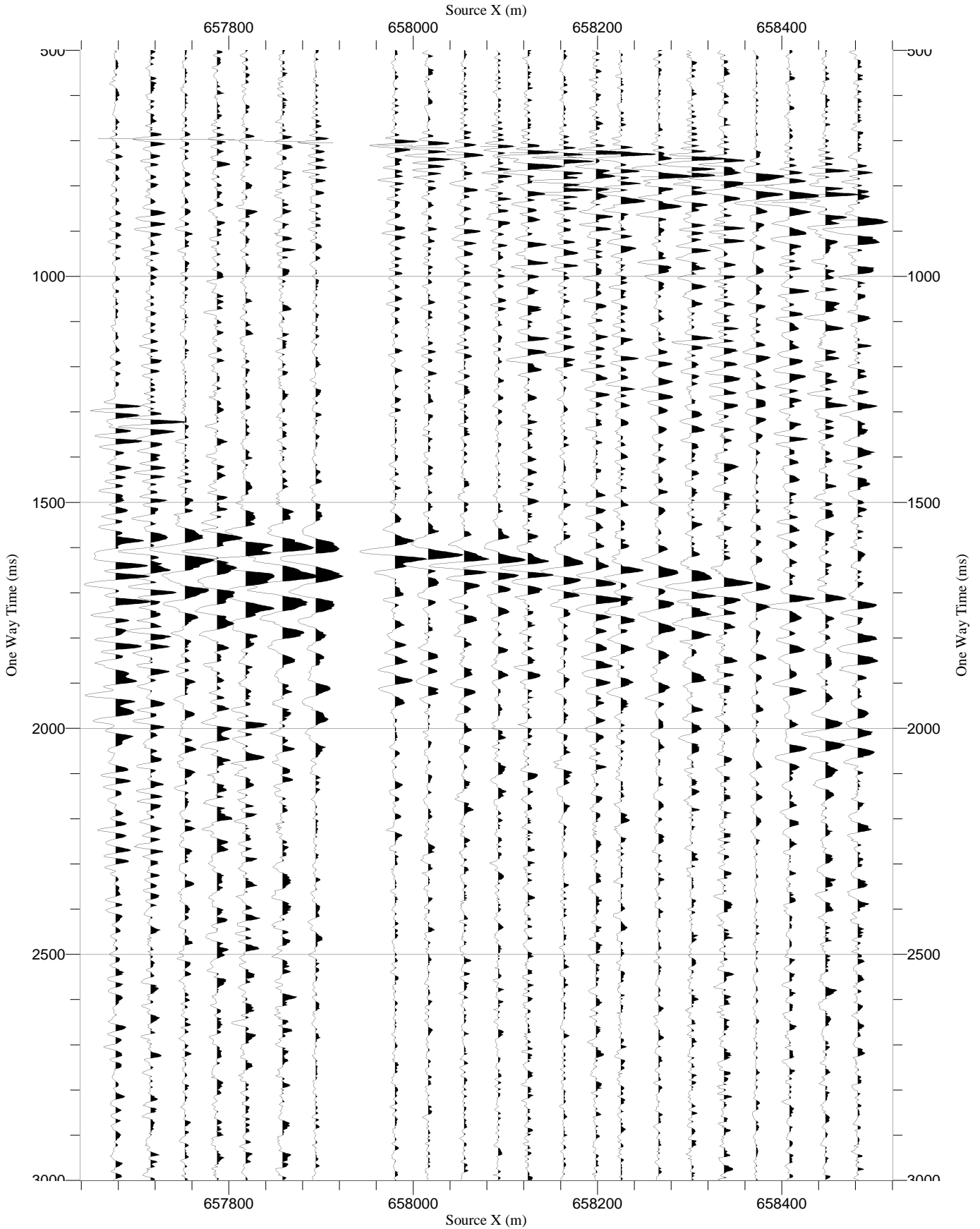
**(1770 m receiver gather WVSP Crossline-S wave Line-A)**


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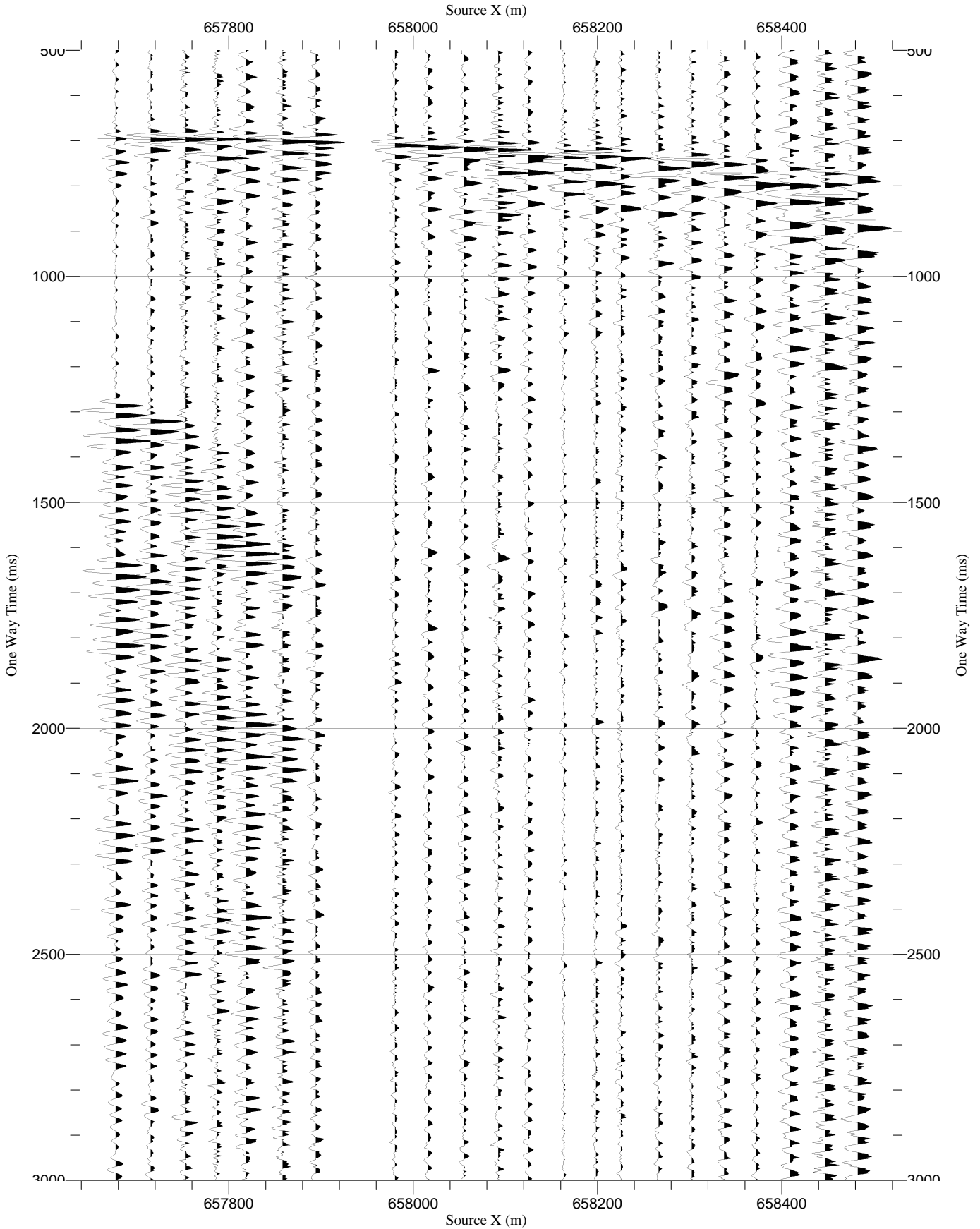
RawStack Z-S2 VSI-5	Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 8.5 cm/sec, 1/5790	
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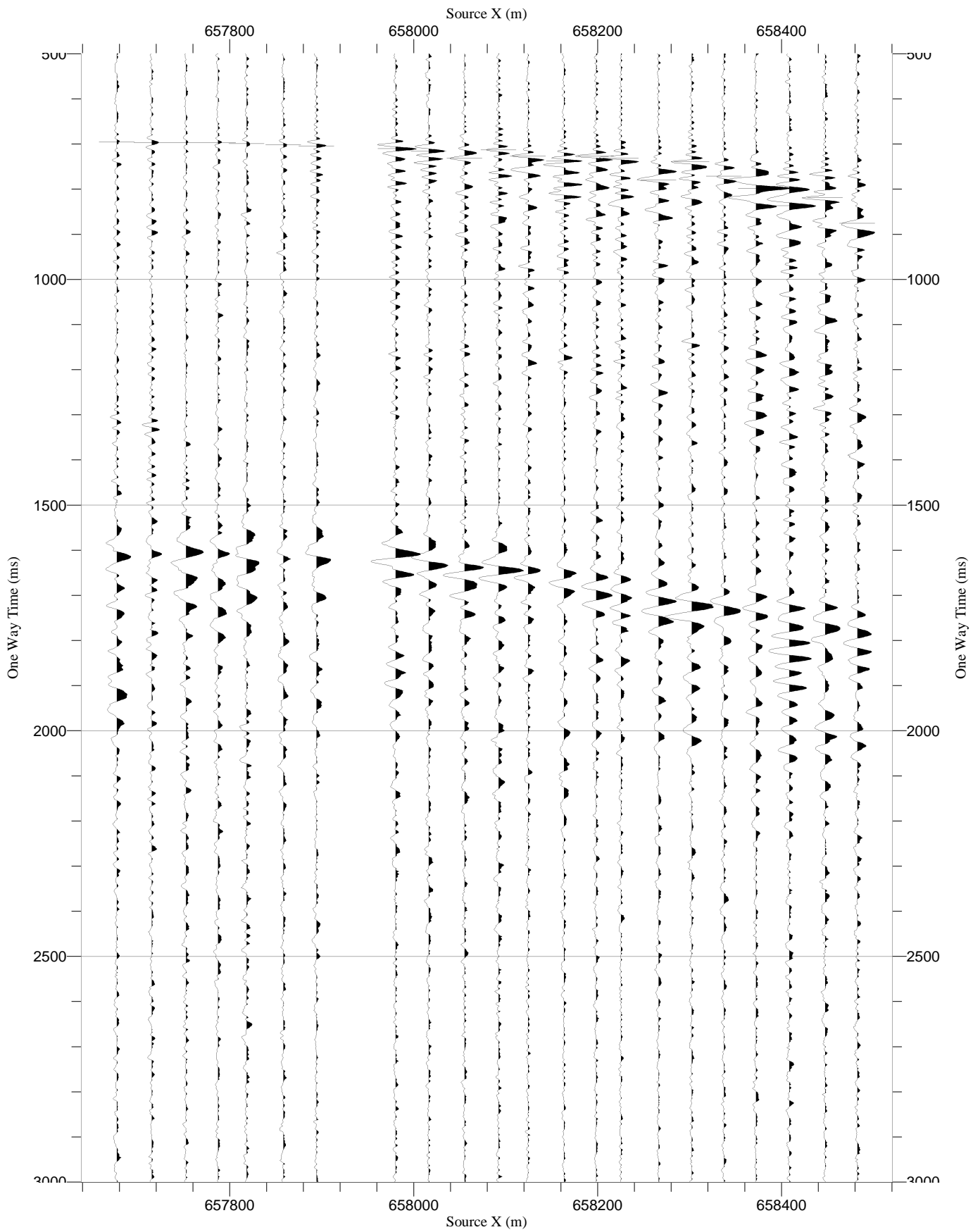
RawStack Y-S2 VSI-5	Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 8.5 cm/sec, 1/5790	
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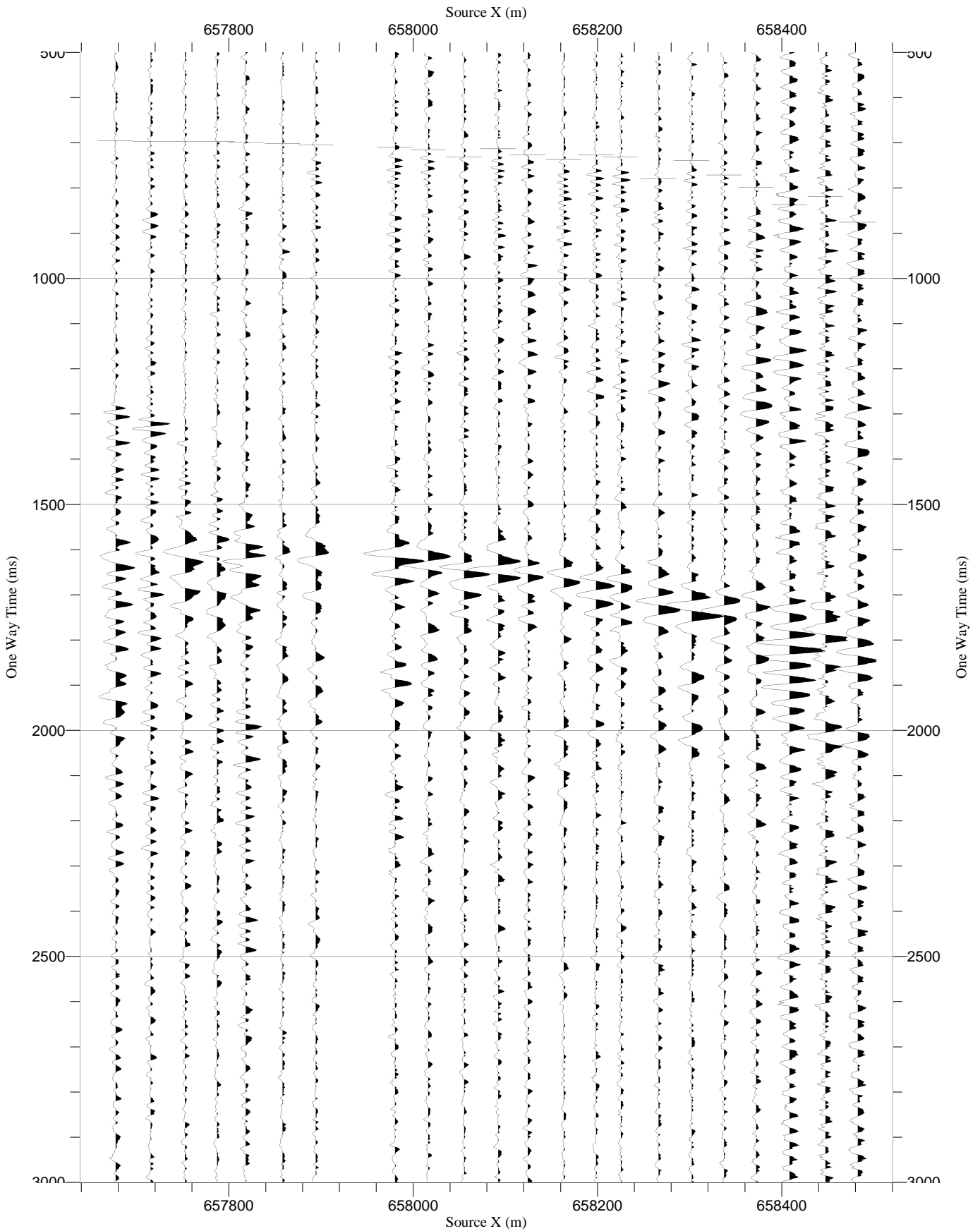
RawStack X-S2 VSI-5	Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 8.5 cm/sec, 1/5790	
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RawStack HMX-S2 VSI-5	Normalization Largest Trace in Gather (100%) Polarity Normal One Way Time (ms) Scaling 8.5 cm/sec, 1/5790	
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RawStack NRY-S2 VSI-5	Normalization Largest Trace in Gather (100%) Polarity Normal One Way Time (ms) Scaling 8.5 cm/sec, 1/5790	
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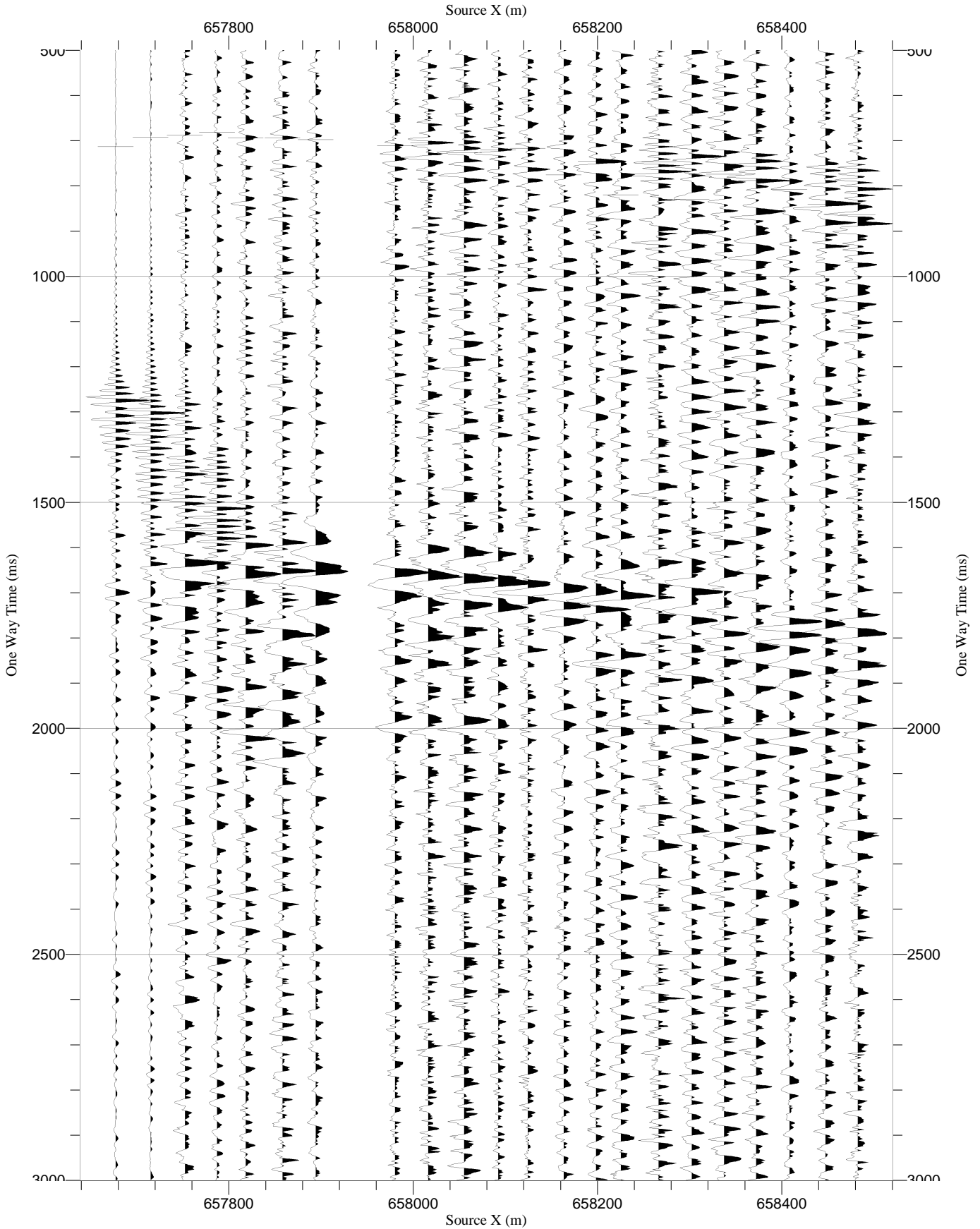
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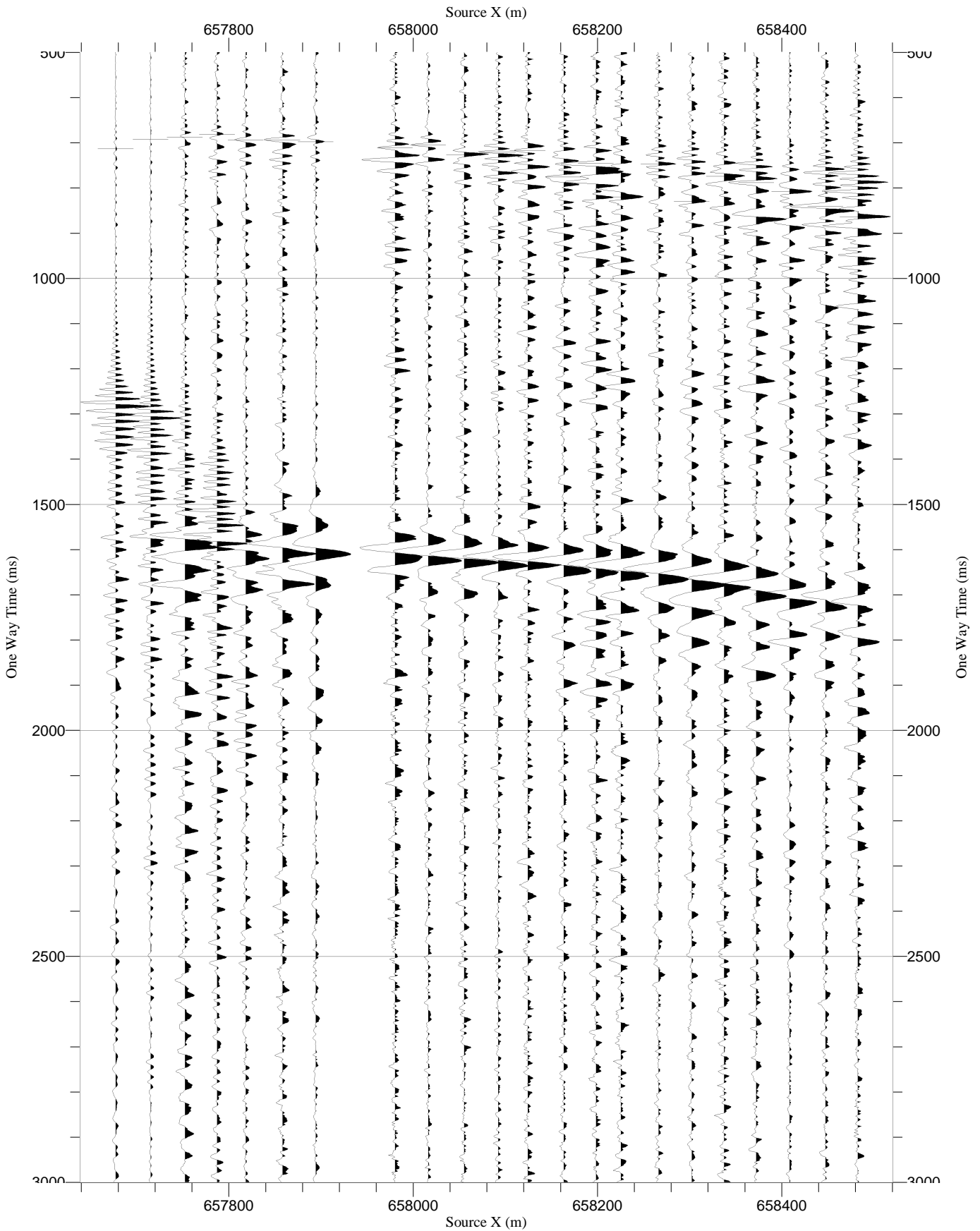
**(1740 m receiver gather WVSP InLine-S Line-A)**

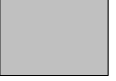
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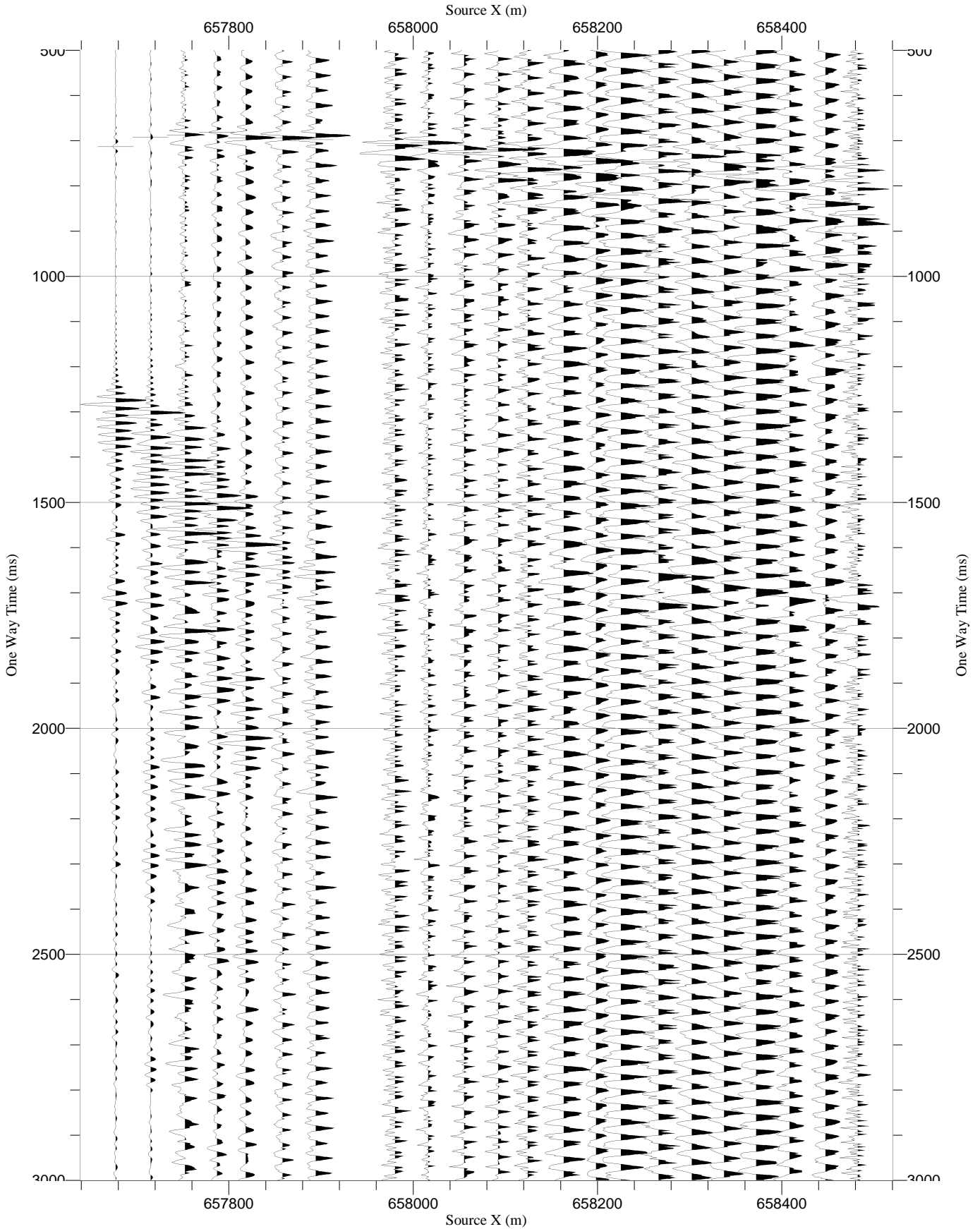
RawStack Z-S1 VSI-2	Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 8.5 cm/sec, 1/5790	
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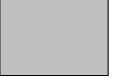


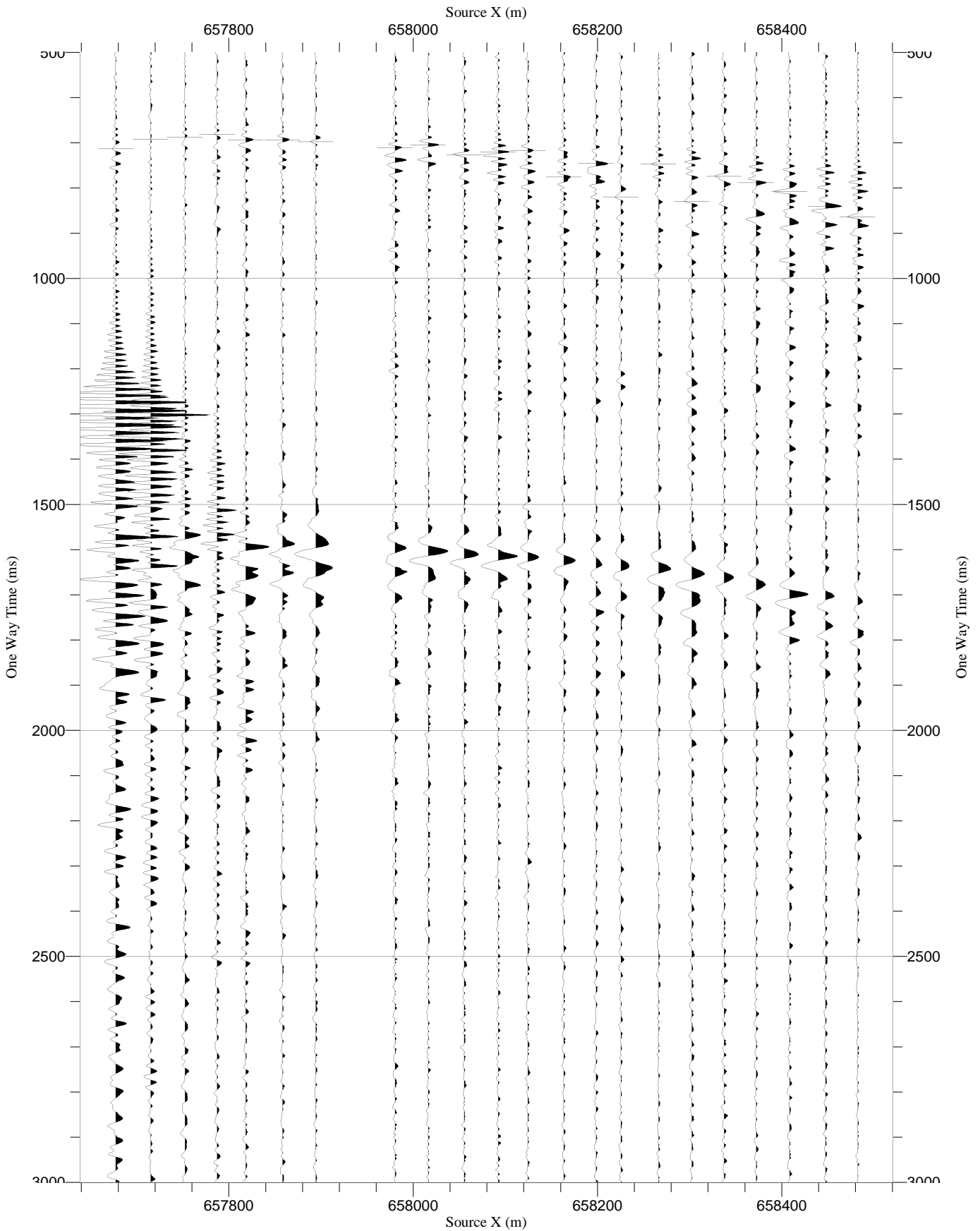
RawStack Y-S1 VSI-2	Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 8.5 cm/sec, 1/5790	
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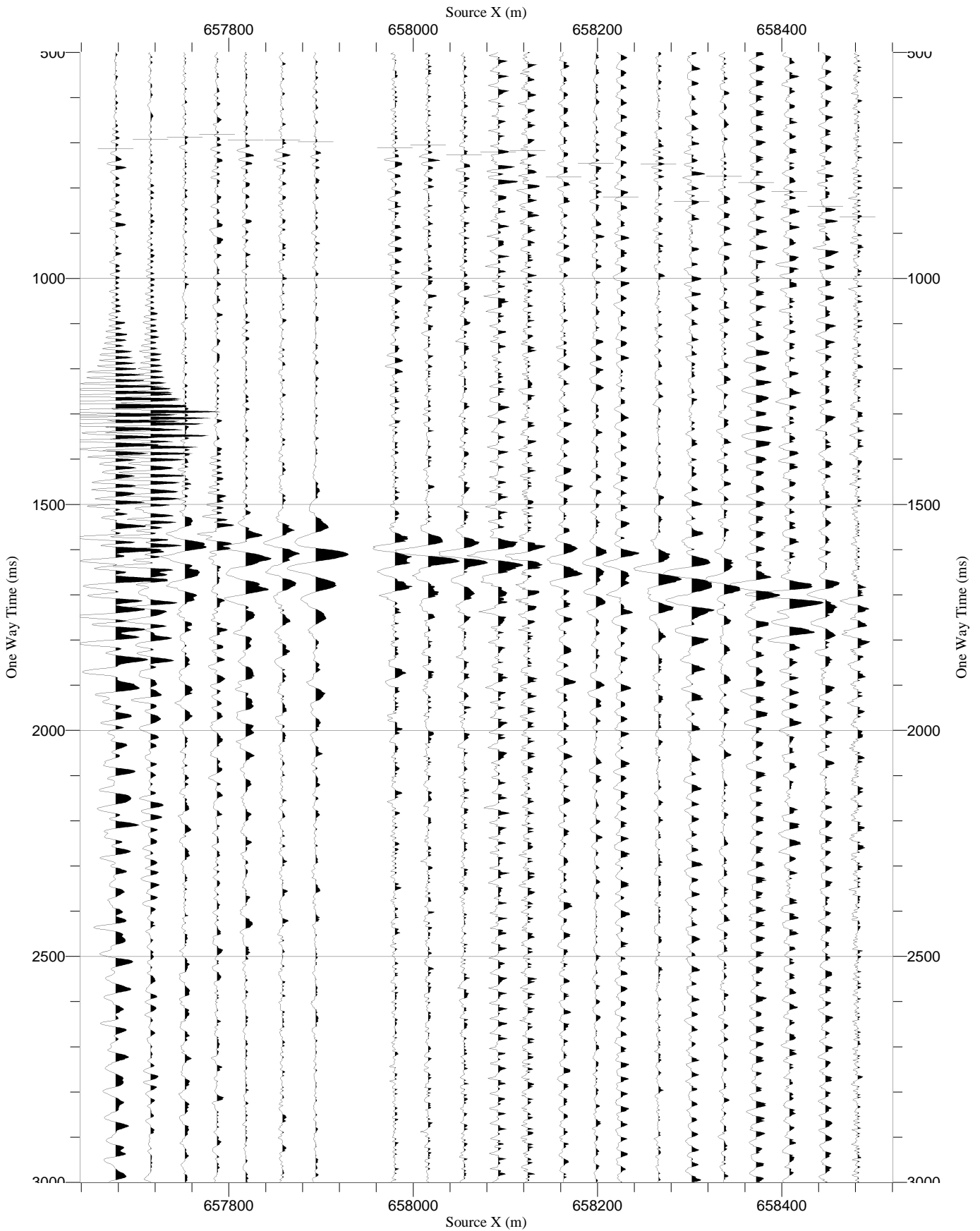
RawStack X-S1 VSI-2	Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 8.5 cm/sec, 1/5790	
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RawStack HMX-S1 VSI-2	Normalization Largest Trace in Gather (250%) Polarity Normal One Way Time (ms) Scaling 8.5 cm/sec, 1/5790	
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RawStack NRY-S1 VSI-2	Normalization Largest Trace in Gather (250%) Polarity Normal One Way Time (ms) Scaling 8.5 cm/sec, 1/5790	
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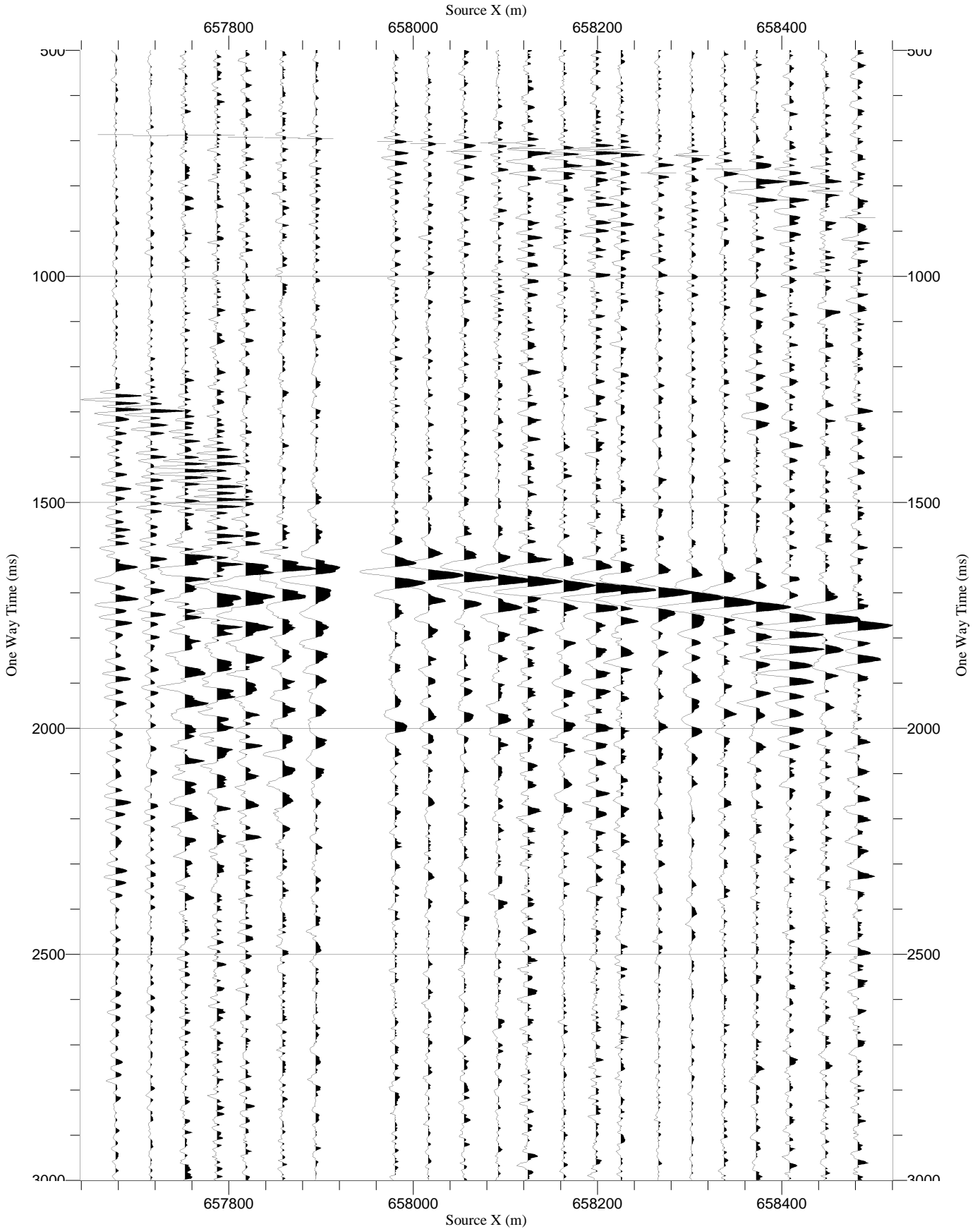
# **VSI-2**

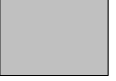
**(1740 m receiver gather WVSP CrossLine-S Line-A)**

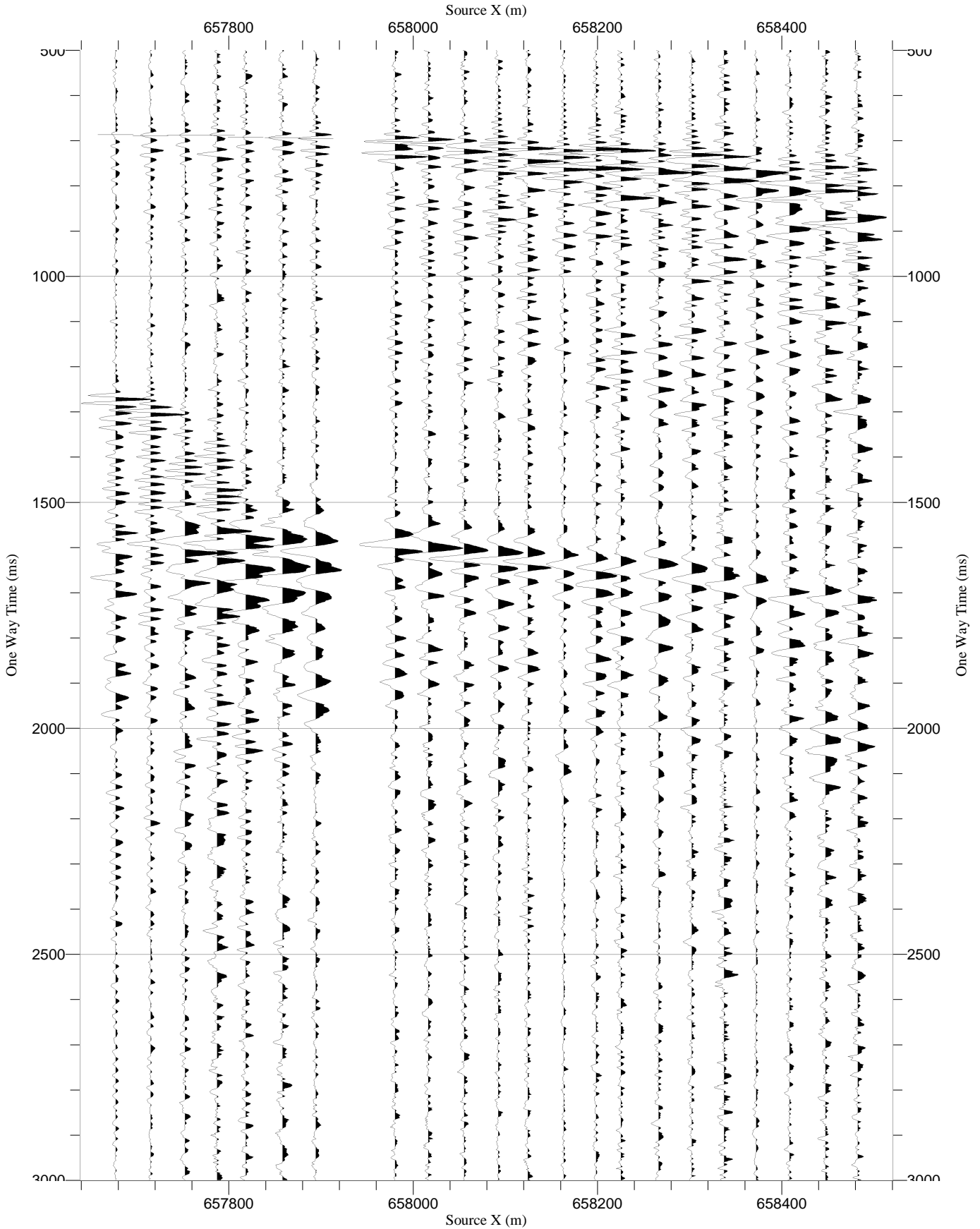
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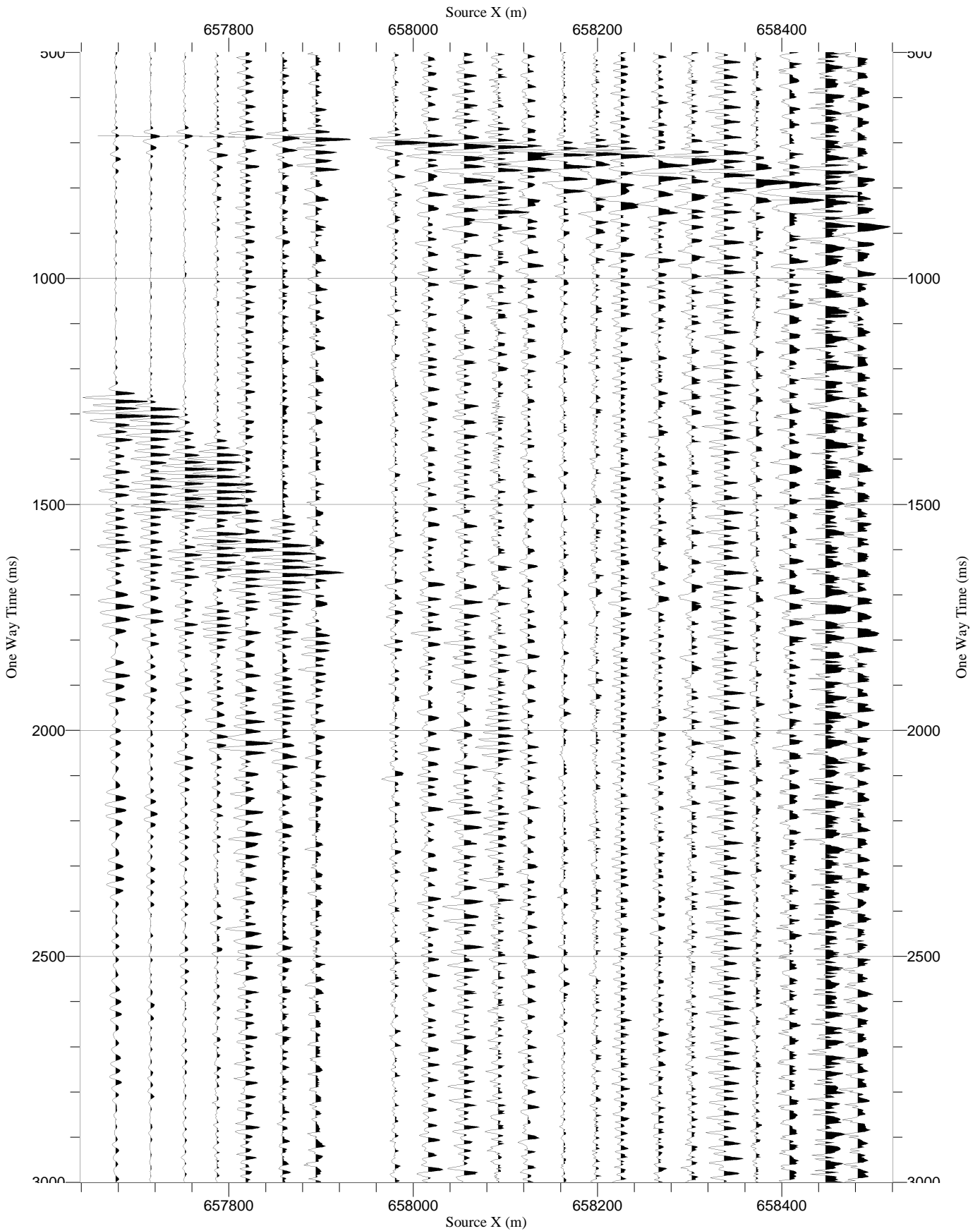
RawStack Z-S2 VSI-2	Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 8.5 cm/sec, 1/5790	
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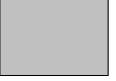


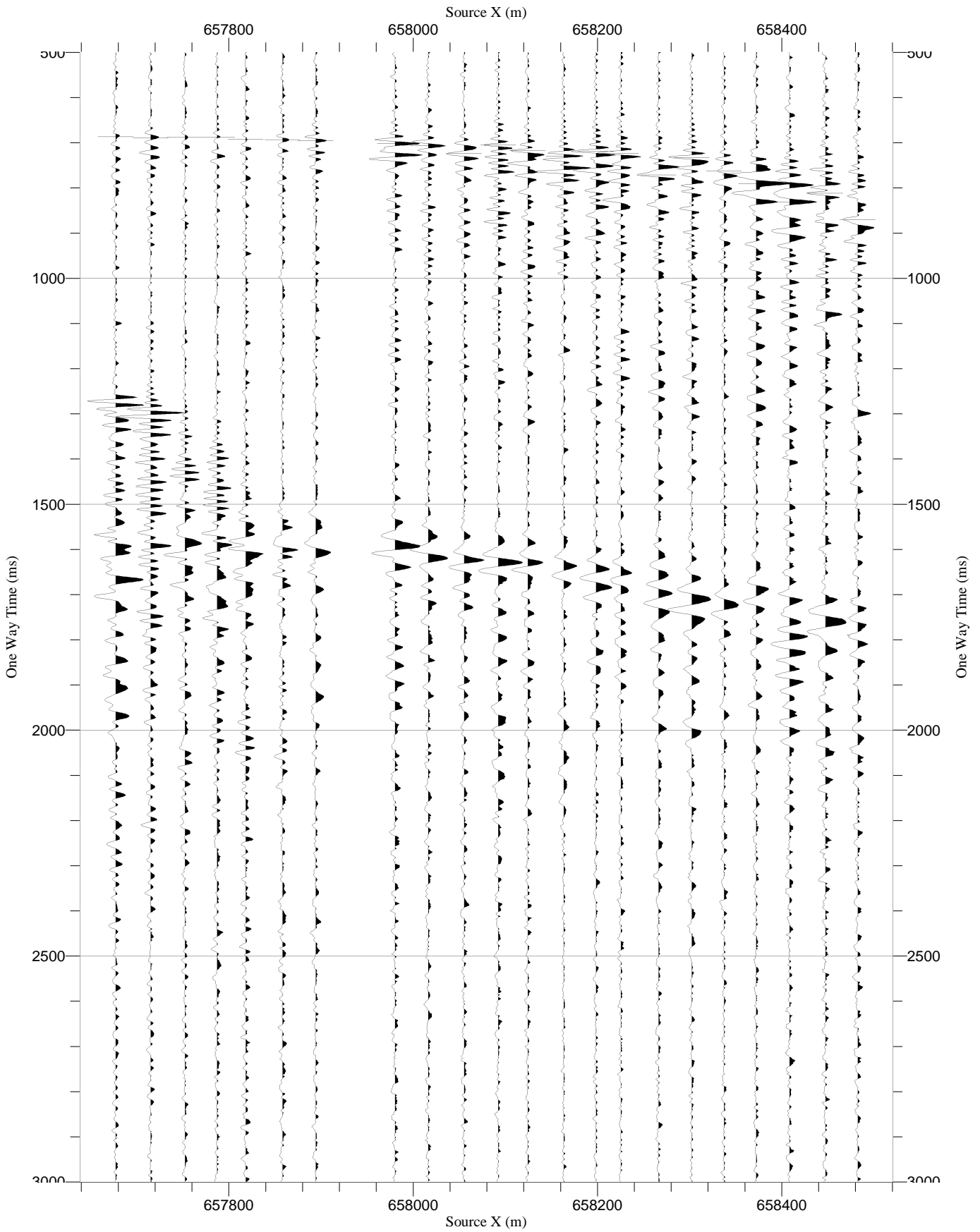
RawStack Y-S2 VSI-2	Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 8.5 cm/sec, 1/5790	
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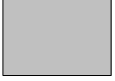


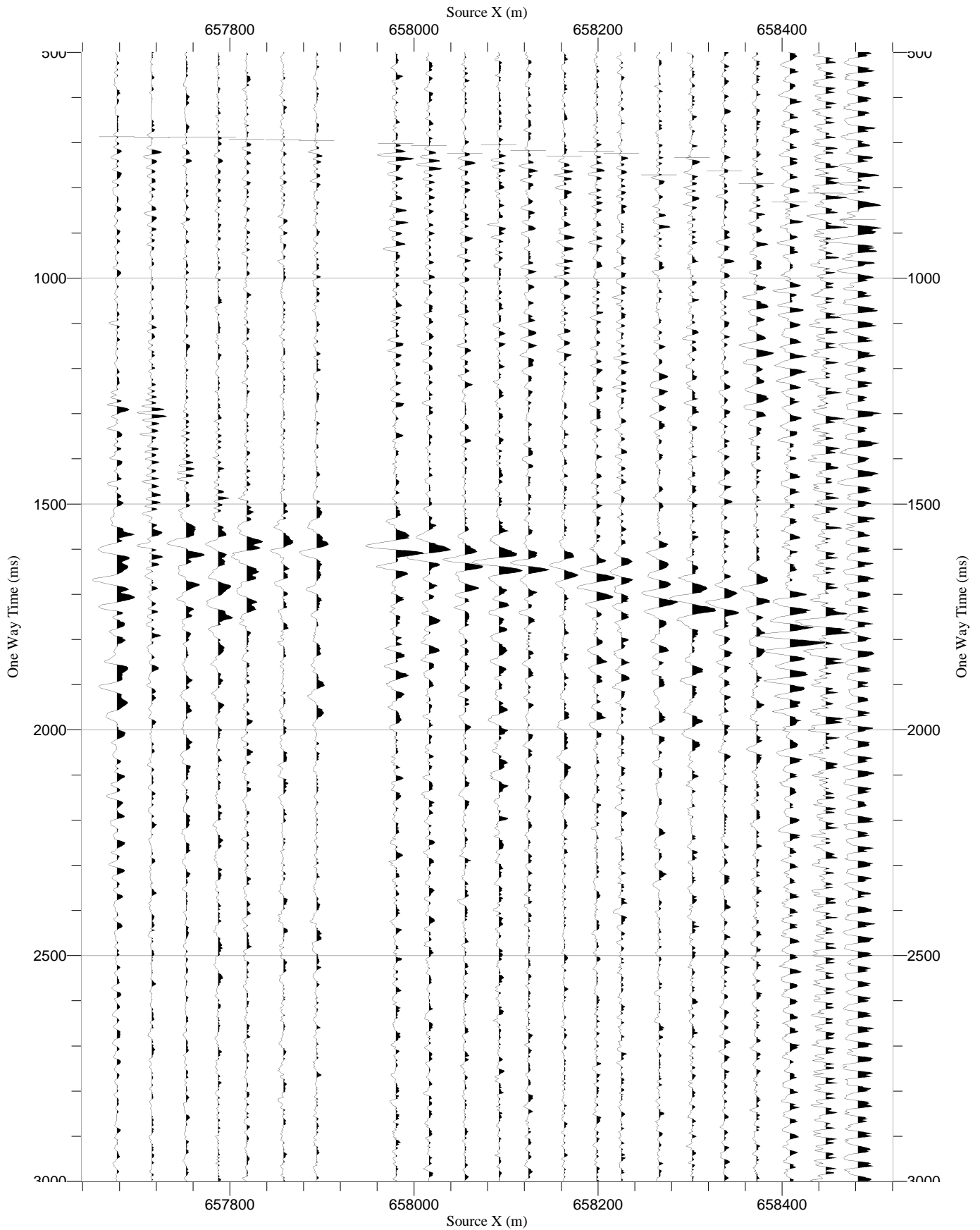
RawStack X-S2 VSI-1	Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 8.5 cm/sec, 1/5790	
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RawStack HMX-S2 VSI-2	Normalization Largest Trace in Gather (100%) Polarity Normal One Way Time (ms) Scaling 8.5 cm/sec, 1/5790	
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RawStack NRY-S2 VSI-2	Normalization Largest Trace in Gather (100%) Polarity Normal One Way Time (ms) Scaling 8.5 cm/sec, 1/5790	
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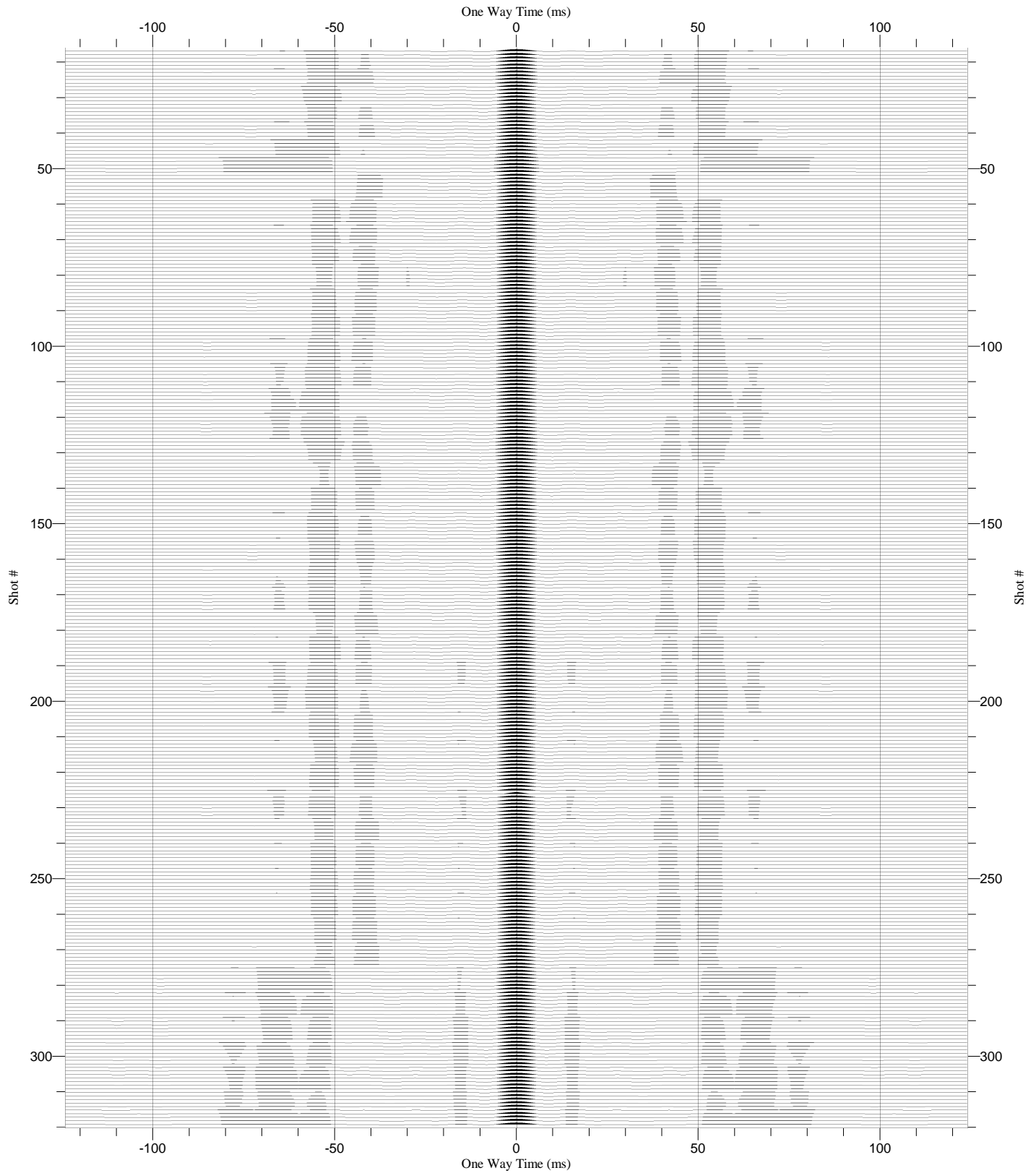
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# **Source Signature QC Report WVSP S-wave Line-A**

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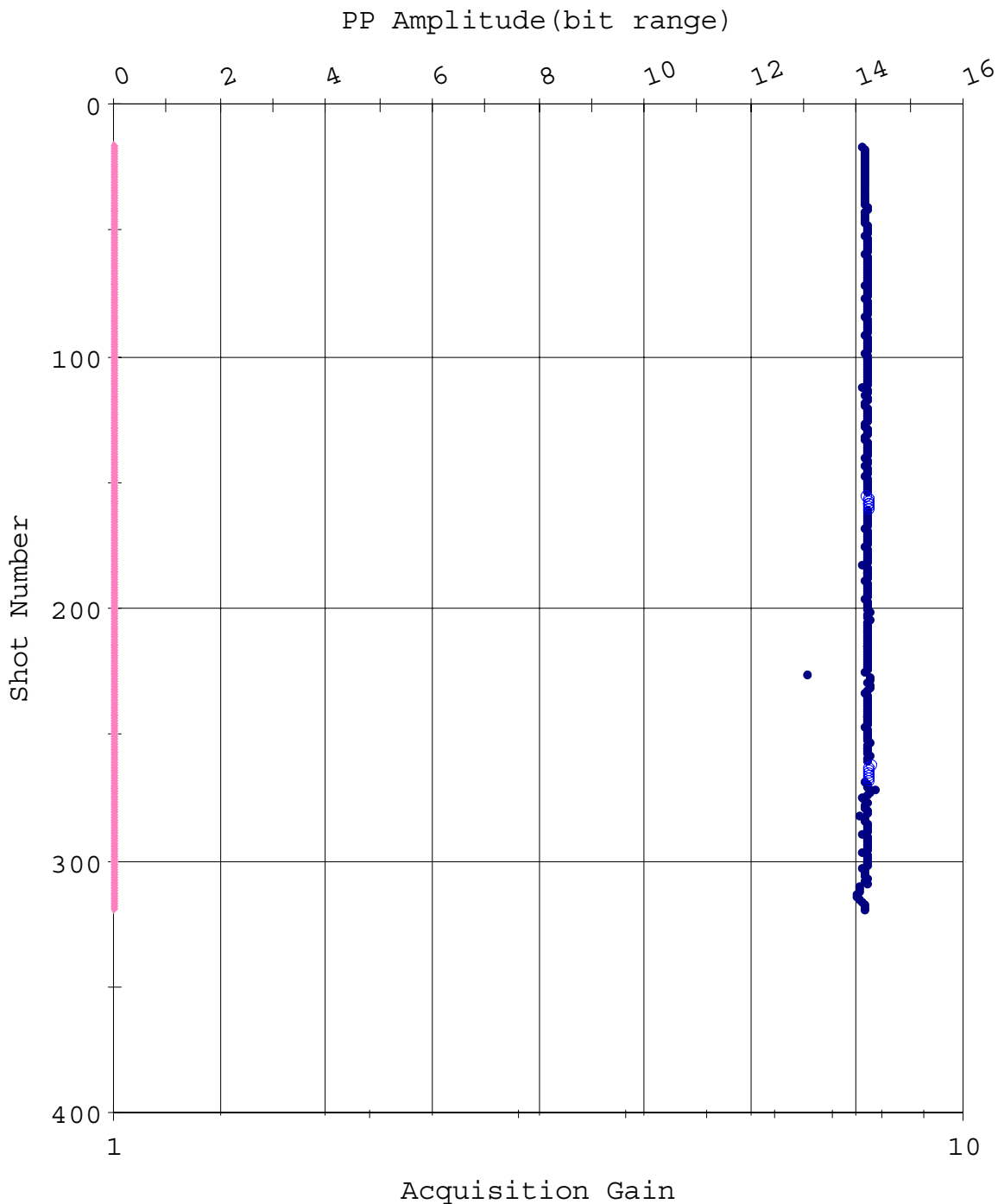
Source Sensor Signature

Normalization Trace by Trace (50%)  
Polarity Normal  
One Way Time (ms)  
Scaling 66.57 cm/sec, 15.39/cm





Amplitude QC Plot (Surface)



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

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# **Shot and Observer Report WVSP S-wave Line-A**

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### Observer's Note (1/6)

Well depth [m]	Time	Shot Type	Shot#	Stack#	Line	Remarks
1800.0	06:08:22	SHAK	1			
1800.0	06:09:02	BKGD	2			
1800.0	06:10:05	ENLO	3			
1800.0	06:10:46	ENHI	4			
1800.0	06:11:11	ETHD	5			
1800.0	06:11:43	DRNG	6			
1800.0	06:12:14	GA02	7			
1800.0	06:12:30	GA04	8			
1800.0	06:12:47	GA08	9			
1800.0	06:13:03	GA16	10			
1800.0	06:13:19	GA32	11			
1800.0	06:13:51	XTLK	12			
1800.0	06:14:28	XTLK	13			
1800.0	06:15:05	XTLK	14			
1800.0	06:15:40	EIMP	15			
1800.0	06:16:58	SHOT	17	1	1	inline s 2002
1800.0	06:18:28	SHOT	18	1	1	
1800.0	06:19:16	SHOT	19	1	1	
1800.0	06:20:00	SHOT	20	1	1	
1800.0	06:20:52	SHOT	21	1	1	
1800.0	06:23:47	SHOT	22	2	1	S1 s 2004
1800.0	06:24:31	SHOT	23	2	1	
1800.0	06:25:14	SHOT	24	2	1	
1800.0	06:27:23	SHOT	25	2	1	
1800.0	06:28:01	SHOT	26	2	1	
1800.0	06:30:12	SHOT	27	3	1	S1 20055
1800.0	06:30:58	SHOT	28	3	1	
1800.0	06:31:37	SHOT	29	3	1	
1800.0	06:32:14	SHOT	30	3	1	
1800.0	06:32:54	SHOT	31	3	1	
1800.0	06:34:25	SHOT	32	4	1	S1 2007
1800.0	06:35:12	SHOT	33	4	1	
1800.0	06:35:48	SHOT	34	4	1	
1800.0	06:36:28	SHOT	35	4	1	
1800.0	06:37:07	SHOT	36	4	1	
1800.0	06:38:31	SHOT	37	5	1	S1 2009
1800.0	06:39:15	SHOT	38	5	1	
1800.0	06:39:51	SHOT	39	5	1	
1800.0	06:40:27	SHOT	40	5	1	
1800.0	06:41:03	SHOT	41	5	1	
1800.0	06:42:22	SHOT	42	6	1	S1 2011
1800.0	06:42:59	SHOT	43	6	1	
1800.0	06:43:35	SHOT	44	6	1	
1800.0	06:44:11	SHOT	45	6	1	
1800.0	06:44:48	SHOT	46	6	1	
1800.0	06:46:07	SHOT	47	7	1	s1 2013
1800.0	06:47:01	SHOT	48	7	1	
1800.0	06:47:38	SHOT	49	7	1	
1800.0	06:48:17	SHOT	50	7	1	
1800.0	06:48:54	SHOT	51	7	1	
1800.0	06:52:21	SHOT	52	8	1	s1 2018 ( 10 deg off north in-line)
1800.0	06:53:11	SHOT	53	8	1	
1800.0	06:53:52	SHOT	54	8	1	
1800.0	06:54:28	SHOT	55	8	1	
1800.0	06:55:05	SHOT	56	8	1	
1800.0	06:55:41	SHOT	57	8	1	
1800.0	06:56:31	SHOT	58	8	1	
1800.0	06:58:34	SHOT	59	9	1	s1 2020
1800.0	06:59:12	SHOT	60	9	1	

**Observer's Note (2/6)**

Well depth [m]	Time	Shot Type	Shot#	Stack#	Line	Remarks
1800.0	06:59:48	SHOT	61	9	1	
1800.0	07:00:24	SHOT	62	9	1	
1800.0	07:01:00	SHOT	63	9	1	
1800.0	07:01:35	SHOT	64	9	1	
1800.0	07:02:11	SHOT	65	9	1	
1800.0	07:03:28	SHOT	66	10	1	S1 2022 ( stamp as 2024) Pls reject
1800.0	07:04:12	SHOT	67	11	1	S1 2022 ( correct stamp)
1800.0	07:04:53	SHOT	68	11	1	
1800.0	07:05:34	SHOT	69	11	1	
1800.0	07:06:10	SHOT	70	11	1	
1800.0	07:06:47	SHOT	71	11	1	
1800.0	07:08:12	SHOT	72	12	1	S1 2024
1800.0	07:08:48	SHOT	73	12	1	
1800.0	07:09:25	SHOT	74	12	1	
1800.0	07:10:02	SHOT	75	12	1	
1800.0	07:10:37	SHOT	76	12	1	
1800.0	07:11:56	SHOT	77	13	1	S1 2026
1800.0	07:12:33	SHOT	78	13	1	
1800.0	07:13:10	SHOT	79	13	1	
1800.0	07:13:47	SHOT	80	13	1	
1800.0	07:14:23	SHOT	81	13	1	
1800.0	07:14:58	SHOT	82	13	1	
1800.0	07:15:35	SHOT	83	13	1	
1800.0	07:16:51	SHOT	84	14	1	S1 2028
1800.0	07:17:34	SHOT	85	14	1	
1800.0	07:18:10	SHOT	86	14	1	
1800.0	07:18:47	SHOT	87	14	1	
1800.0	07:19:22	SHOT	88	14	1	
1800.0	07:19:58	SHOT	89	14	1	
1800.0	07:20:36	SHOT	90	14	1	
1800.0	07:22:02	SHOT	91	15	1	S1 2030
1800.0	07:22:38	SHOT	92	15	1	
1800.0	07:23:14	SHOT	93	15	1	
1800.0	07:23:51	SHOT	94	15	1	
1800.0	07:24:28	SHOT	95	15	1	
1800.0	07:25:06	SHOT	96	15	1	
1800.0	07:25:43	SHOT	97	15	1	
1800.0	07:27:00	SHOT	98	16	1	s1 2032
1800.0	07:27:38	SHOT	99	16	1	
1800.0	07:28:15	SHOT	100	16	1	
1800.0	07:28:52	SHOT	101	16	1	
1800.0	07:29:27	SHOT	102	16	1	
1800.0	07:30:03	SHOT	103	16	1	
1800.0	07:30:42	SHOT	104	16	1	
1800.0	07:41:29	SHOT	105	17	1	S1 2034
1800.0	07:42:06	SHOT	106	17	1	
1800.0	07:42:44	SHOT	107	17	1	
1800.0	07:43:21	SHOT	108	17	1	
1800.0	07:43:58	SHOT	109	17	1	
1800.0	07:44:33	SHOT	110	17	1	
1800.0	07:45:09	SHOT	111	17	1	
1800.0	07:46:32	SHOT	112	18	1	S1 2036
1800.0	07:47:13	SHOT	113	18	1	
1800.0	07:48:26	SHOT	114	18	1	
1800.0	07:49:06	SHOT	115	18	1	
1800.0	07:49:45	SHOT	116	18	1	
1800.0	07:50:24	SHOT	117	18	1	
1800.0	07:50:59	SHOT	118	18	1	
1800.0	07:52:15	SHOT	119	19	1	S1 2038

**Observer's Note (3/6)**

Well depth [m]	Time	Shot Type	Shot#	Stack#	Line	Remarks
1800.0	07:52:51	SHOT	120	19	1	
1800.0	07:53:28	SHOT	121	19	1	
1800.0	07:54:03	SHOT	122	19	1	
1800.0	07:55:30	SHOT	123	19	1	
1800.0	07:56:06	SHOT	124	19	1	
1800.0	07:56:41	SHOT	125	19	1	
1800.0	07:58:09	SHOT	126	20	1	s1 2040
1800.0	07:58:48	SHOT	127	20	1	
1800.0	07:59:24	SHOT	128	20	1	
1800.0	07:59:59	SHOT	129	20	1	
1800.0	08:00:35	SHOT	130	20	1	
1800.0	08:01:25	SHOT	131	20	1	
1800.0	08:02:00	SHOT	132	20	1	
1800.0	08:03:17	SHOT	133	21	1	S1 2042
1800.0	08:03:54	SHOT	134	21	1	
1800.0	08:04:29	SHOT	135	21	1	
1800.0	08:05:06	SHOT	136	21	1	
1800.0	08:05:42	SHOT	137	21	1	
1800.0	08:06:21	SHOT	138	21	1	
1800.0	08:06:57	SHOT	139	21	1	
1800.0	08:08:15	SHOT	140	22	1	s1 2044
1800.0	08:08:50	SHOT	141	22	1	
1800.0	08:09:26	SHOT	142	22	1	
1800.0	08:10:02	SHOT	143	22	1	
1800.0	08:10:37	SHOT	144	22	1	
1800.0	08:11:13	SHOT	145	22	1	
1800.0	08:11:49	SHOT	146	22	1	
1800.0	08:13:52	SHOT	147	23	1	s1 2046 Vib facing East
1800.0	08:14:34	SHOT	148	23	1	
1800.0	08:15:13	SHOT	149	23	1	
1800.0	08:15:49	SHOT	150	23	1	
1800.0	08:16:25	SHOT	151	23	1	
1800.0	08:17:02	SHOT	152	23	1	
1800.0	08:17:40	SHOT	153	23	1	
1800.0	08:19:41	SHOT	154	24	1	S1 R 20462 Vib facing West
1800.0	08:20:19	SHOT	155	24	1	
1800.0	08:20:55	SHOT	156	24	1	
1800.0	08:21:31	SHOT	157	24	1	
1800.0	08:22:07	SHOT	158	24	1	
1800.0	08:22:42	SHOT	159	24	1	
1800.0	08:23:25	SHOT	160	24	1	
1800.0	08:37:36	SHOT	161	25	2	S2 2046 vib facing west
1800.0	08:38:14	SHOT	162	25	2	
1800.0	08:38:51	SHOT	163	25	2	
1800.0	08:39:29	SHOT	164	25	2	
1800.0	08:40:05	SHOT	165	25	2	
1800.0	08:40:41	SHOT	166	25	2	
1800.0	08:41:16	SHOT	167	25	2	
1800.0	08:43:11	SHOT	168	26	2	S2 2044
1800.0	08:43:47	SHOT	169	26	2	
1800.0	08:44:24	SHOT	170	26	2	
1800.0	08:45:01	SHOT	171	26	2	
1800.0	08:45:36	SHOT	172	26	2	
1800.0	08:46:13	SHOT	173	26	2	
1800.0	08:46:53	SHOT	174	26	2	
1800.0	08:48:16	SHOT	175	27	2	s2 2042
1800.0	08:48:53	SHOT	176	27	2	
1800.0	08:49:33	SHOT	177	27	2	
1800.0	08:50:09	SHOT	178	27	2	

**Observer's Note (4/6)**

Well depth [m]	Time	Shot Type	Shot#	Stack#	Line	Remarks
1800.0	08:50:45	SHOT	179	27	2	
1800.0	08:51:20	SHOT	180	27	2	
1800.0	08:51:55	SHOT	181	27	2	
1800.0	08:53:02	SHOT	182	28	2	S2 2040
1800.0	08:53:39	SHOT	183	28	2	
1800.0	08:54:16	SHOT	184	28	2	
1800.0	08:54:52	SHOT	185	28	2	
1800.0	08:55:28	SHOT	186	28	2	
1800.0	08:56:04	SHOT	187	28	2	
1800.0	08:56:39	SHOT	188	28	2	
1800.0	08:57:41	SHOT	189	29	2	S2 2038
1800.0	08:58:16	SHOT	190	29	2	
1800.0	08:58:53	SHOT	191	29	2	
1800.0	08:59:29	SHOT	192	29	2	
1800.0	09:00:04	SHOT	193	29	2	
1800.0	09:00:39	SHOT	194	29	2	
1800.0	09:01:18	SHOT	195	29	2	
1800.0	09:02:17	SHOT	196	30	2	S2 2036
1800.0	09:02:54	SHOT	197	30	2	
1800.0	09:03:30	SHOT	198	30	2	
1800.0	09:04:06	SHOT	199	30	2	
1800.0	09:04:41	SHOT	200	30	2	
1800.0	09:05:17	SHOT	201	30	2	
1800.0	09:05:53	SHOT	202	30	2	
1800.0	09:06:57	SHOT	203	31	2	S2 2034
1800.0	09:07:33	SHOT	204	31	2	
1800.0	09:08:10	SHOT	205	31	2	
1800.0	09:08:45	SHOT	206	31	2	
1800.0	09:09:22	SHOT	207	31	2	
1800.0	09:09:59	SHOT	208	31	2	
1800.0	09:10:37	SHOT	209	31	2	
1800.0	09:11:13	SHOT	210	31	2	
1800.0	09:23:42	SHOT	211	32	2	S2 2032
1800.0	09:24:19	SHOT	212	32	2	
1800.0	09:24:55	SHOT	213	32	2	
1800.0	09:25:34	SHOT	214	32	2	
1800.0	09:26:10	SHOT	215	32	2	
1800.0	09:26:47	SHOT	216	32	2	
1800.0	09:27:22	SHOT	217	32	2	
1800.0	09:28:20	SHOT	218	33	2	S2 2030
1800.0	09:28:55	SHOT	219	33	2	
1800.0	09:29:32	SHOT	220	33	2	
1800.0	09:30:08	SHOT	221	33	2	
1800.0	09:30:43	SHOT	222	33	2	
1800.0	09:31:18	SHOT	223	33	2	
1800.0	09:31:53	SHOT	224	33	2	
1800.0	09:32:54	SHOT	225	34	2	S2 2028
1800.0	09:33:30	SHOT	226	34	2	miss fire
1800.0	09:34:06	SHOT	227	34	2	
1800.0	09:34:44	SHOT	228	34	2	
1800.0	09:35:19	SHOT	229	34	2	
1800.0	09:35:55	SHOT	230	34	2	
1800.0	09:36:33	SHOT	231	34	2	
1800.0	09:37:11	SHOT	232	34	2	
1800.0	09:38:20	SHOT	233	35	2	S2 2026
1800.0	09:38:56	SHOT	234	35	2	
1800.0	09:39:43	SHOT	235	35	2	
1800.0	09:40:18	SHOT	236	35	2	
1800.0	09:40:54	SHOT	237	35	2	

**Observer's Note (5/6)**

Well depth [m]	Time	Shot Type	Shot#	Stack#	Line	Remarks
1800.0	09:41:29	SHOT	238	35	2	
1800.0	09:42:07	SHOT	239	35	2	
1800.0	09:43:08	SHOT	240	36	2	S2 2024
1800.0	09:43:44	SHOT	241	36	2	
1800.0	09:44:27	SHOT	242	36	2	
1800.0	09:45:01	SHOT	243	36	2	
1800.0	09:45:37	SHOT	244	36	2	
1800.0	09:46:13	SHOT	245	36	2	
1800.0	09:46:48	SHOT	246	36	2	
1800.0	09:47:47	SHOT	247	37	2	S2 2022
1800.0	09:48:23	SHOT	248	37	2	
1800.0	09:48:59	SHOT	249	37	2	
1800.0	09:49:35	SHOT	250	37	2	
1800.0	09:50:10	SHOT	251	37	2	
1800.0	09:50:49	SHOT	252	37	2	
1800.0	09:51:28	SHOT	253	37	2	
1800.0	09:53:54	SHOT	254	38	2	S2 2020
1800.0	09:54:35	SHOT	255	38	2	
1800.0	09:55:12	SHOT	256	38	2	
1800.0	09:55:48	SHOT	257	38	2	
1800.0	09:56:26	SHOT	258	38	2	
1800.0	09:57:03	SHOT	259	38	2	
1800.0	09:57:39	SHOT	260	38	2	
1800.0	10:00:05	SHOT	261	39	2	s2 r 20202 reverse esat facing
1800.0	10:00:52	SHOT	262	39	2	
1800.0	10:01:33	SHOT	263	39	2	
1800.0	10:02:09	SHOT	264	39	2	
1800.0	10:02:45	SHOT	265	39	2	
1800.0	10:03:24	SHOT	266	39	2	
1800.0	10:04:01	SHOT	267	39	2	
1800.0	10:08:17	SHOT	268	40	2	s2 r 2018 revese facing east
1800.0	10:08:55	SHOT	269	40	2	
1800.0	10:09:32	SHOT	270	40	2	
1800.0	10:10:28	SHOT	271	40	2	
1800.0	10:11:04	SHOT	272	40	2	
1800.0	10:11:40	SHOT	273	40	2	
1800.0	10:12:22	SHOT	274	40	2	
1800.0	10:23:50	SHOT	275	41	2	S2 2013 normal facing west
1800.0	10:24:25	SHOT	276	41	2	
1800.0	10:25:01	SHOT	277	41	2	
1800.0	10:25:37	SHOT	278	41	2	
1800.0	10:26:13	SHOT	279	41	2	
1800.0	10:26:49	SHOT	280	41	2	
1800.0	10:27:24	SHOT	281	41	2	
1800.0	10:29:04	SHOT	282	42	2	s2 2011
1800.0	10:29:43	SHOT	283	42	2	
1800.0	10:30:18	SHOT	284	42	2	
1800.0	10:30:54	SHOT	285	42	2	
1800.0	10:31:29	SHOT	286	42	2	
1800.0	10:32:06	SHOT	287	42	2	
1800.0	10:32:41	SHOT	288	42	2	
1800.0	10:33:44	SHOT	289	43	2	s2 2009
1800.0	10:34:20	SHOT	290	43	2	
1800.0	10:34:56	SHOT	291	43	2	
1800.0	10:35:30	SHOT	292	43	2	
1800.0	10:36:06	SHOT	293	43	2	
1800.0	10:36:41	SHOT	294	43	2	
1800.0	10:37:17	SHOT	295	43	2	
1800.0	10:38:19	SHOT	296	44	2	S2 2007



**Observer's Note (6/6)**

Well depth [m]	Time	Shot Type	Shot#	Stack#	Line	Remarks
1800.0	10:39:01	SHOT	297	44	2	
1800.0	10:39:37	SHOT	298	44	2	
1800.0	10:40:12	SHOT	299	44	2	
1800.0	10:40:48	SHOT	300	44	2	
1800.0	10:41:23	SHOT	301	44	2	
1800.0	10:41:58	SHOT	302	44	2	
1800.0	10:43:07	SHOT	303	45	2	S2 2055
1800.0	10:43:41	SHOT	304	45	2	
1800.0	10:44:17	SHOT	305	45	2	
1800.0	10:44:54	SHOT	306	45	2	
1800.0	10:45:30	SHOT	307	45	2	
1800.0	10:46:06	SHOT	308	45	2	
1800.0	10:46:43	SHOT	309	45	2	
1800.0	10:49:51	SHOT	310	46	2	S2 2004
1800.0	10:50:29	SHOT	311	46	2	
1800.0	10:51:12	SHOT	312	46	2	
1800.0	10:51:49	SHOT	313	46	2	
1800.0	10:52:25	SHOT	314	46	2	
1800.0	10:53:46	SHOT	315	47	2	S2 2002
1800.0	10:54:21	SHOT	316	47	2	
1800.0	10:55:10	SHOT	317	47	2	
1800.0	10:55:45	SHOT	318	47	2	
1800.0	10:56:22	SHOT	319	47	2	

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# **VSI Tool Evaluation Test Report WVSP S-wave Line-A**

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## VSI Seismic Evaluation Report

### ELECTRICAL NOISE LOW TEST

2006/05/18 07:40:05

Shot No: 3

Station Depth: 1800.03 m

Evaluation Item	Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result
DC Offset	1	X	-25.4322	milli V	-100.0000	100.0000	PASS
RMS Noise Level	1	X	0.1317	micro V	-	0.5000	PASS
Noise Peak	1	X	0.4472	micro V	-	2.0000	PASS
DC Offset	1	Y	-25.3712	milli V	-100.0000	100.0000	PASS
RMS Noise Level	1	Y	0.1367	micro V	-	0.5000	PASS
Noise Peak	1	Y	0.5275	micro V	-	2.0000	PASS
DC Offset	1	Z	-25.3891	milli V	-100.0000	100.0000	PASS
RMS Noise Level	1	Z	0.1328	micro V	-	0.5000	PASS
Noise Peak	1	Z	0.4536	micro V	-	2.0000	PASS
DC Offset	2	X	-25.2346	milli V	-100.0000	100.0000	PASS
RMS Noise Level	2	X	0.1318	micro V	-	0.5000	PASS
Noise Peak	2	X	0.4616	micro V	-	2.0000	PASS
DC Offset	2	Y	-25.0960	milli V	-100.0000	100.0000	PASS
RMS Noise Level	2	Y	0.1296	micro V	-	0.5000	PASS
Noise Peak	2	Y	0.5038	micro V	-	2.0000	PASS
DC Offset	2	Z	-25.3884	milli V	-100.0000	100.0000	PASS
RMS Noise Level	2	Z	0.1315	micro V	-	0.5000	PASS
Noise Peak	2	Z	0.4568	micro V	-	2.0000	PASS
DC Offset	3	X	-25.3928	milli V	-100.0000	100.0000	PASS
RMS Noise Level	3	X	0.1319	micro V	-	0.5000	PASS
Noise Peak	3	X	0.5164	micro V	-	2.0000	PASS
DC Offset	3	Y	-25.3030	milli V	-100.0000	100.0000	PASS
RMS Noise Level	3	Y	0.1361	micro V	-	0.5000	PASS
Noise Peak	3	Y	0.4951	micro V	-	2.0000	PASS
DC Offset	3	Z	-25.3732	milli V	-100.0000	100.0000	PASS
RMS Noise Level	3	Z	0.1301	micro V	-	0.5000	PASS
Noise Peak	3	Z	0.4875	micro V	-	2.0000	PASS
DC Offset	4	X	-25.3047	milli V	-100.0000	100.0000	PASS
RMS Noise Level	4	X	0.1344	micro V	-	0.5000	PASS
Noise Peak	4	X	0.5143	micro V	-	2.0000	PASS
DC Offset	4	Y	-25.3452	milli V	-100.0000	100.0000	PASS
RMS Noise Level	4	Y	0.1316	micro V	-	0.5000	PASS
Noise Peak	4	Y	0.4679	micro V	-	2.0000	PASS
DC Offset	4	Z	-25.2980	milli V	-100.0000	100.0000	PASS
RMS Noise Level	4	Z	0.1365	micro V	-	0.5000	PASS
Noise Peak	4	Z	0.4883	micro V	-	2.0000	PASS
DC Offset	5	X	-25.2728	milli V	-100.0000	100.0000	PASS
RMS Noise Level	5	X	0.1319	micro V	-	0.5000	PASS
Noise Peak	5	X	0.4722	micro V	-	2.0000	PASS
DC Offset	5	Y	-25.3539	milli V	-100.0000	100.0000	PASS
RMS Noise Level	5	Y	0.1302	micro V	-	0.5000	PASS
Noise Peak	5	Y	0.4625	micro V	-	2.0000	PASS
DC Offset	5	Z	-25.3366	milli V	-100.0000	100.0000	PASS
RMS Noise Level	5	Z	0.1308	micro V	-	0.5000	PASS
Noise Peak	5	Z	0.4633	micro V	-	2.0000	PASS
DC Offset	6	X	-25.4133	milli V	-100.0000	100.0000	PASS
RMS Noise Level	6	X	0.1352	micro V	-	0.5000	PASS
Noise Peak	6	X	0.4558	micro V	-	2.0000	PASS
DC Offset	6	Y	-25.3407	milli V	-100.0000	100.0000	PASS
RMS Noise Level	6	Y	0.1350	micro V	-	0.5000	PASS
Noise Peak	6	Y	0.5505	micro V	-	2.0000	PASS
DC Offset	6	Z	-25.3503	milli V	-100.0000	100.0000	PASS
RMS Noise Level	6	Z	0.1324	micro V	-	0.5000	PASS
Noise Peak	6	Z	0.5543	micro V	-	2.0000	PASS
DC Offset	7	X	-25.3241	milli V	-100.0000	100.0000	PASS
RMS Noise Level	7	X	0.1359	micro V	-	0.5000	PASS
Noise Peak	7	X	0.5148	micro V	-	2.0000	PASS

DC Offset	7	Y	-25.2881	milli V	-100.0000	100.0000	PASS
RMS Noise Level	7	Y	0.1341	micro V	-	0.5000	PASS
Noise Peak	7	Y	0.4912	micro V	-	2.0000	PASS
DC Offset	7	Z	-25.3393	milli V	-100.0000	100.0000	PASS
RMS Noise Level	7	Z	0.1329	micro V	-	0.5000	PASS
Noise Peak	7	Z	0.4771	micro V	-	2.0000	PASS
DC Offset	8	X	-25.4216	milli V	-100.0000	100.0000	PASS
RMS Noise Level	8	X	0.1320	micro V	-	0.5000	PASS
Noise Peak	8	X	0.6721	micro V	-	2.0000	PASS
DC Offset	8	Y	-25.2861	milli V	-100.0000	100.0000	PASS
RMS Noise Level	8	Y	0.1359	micro V	-	0.5000	PASS
Noise Peak	8	Y	0.5202	micro V	-	2.0000	PASS
DC Offset	8	Z	-25.4463	milli V	-100.0000	100.0000	PASS
RMS Noise Level	8	Z	0.1323	micro V	-	0.5000	PASS
Noise Peak	8	Z	0.5077	micro V	-	2.0000	PASS

**ELECTRICAL NOISE HIGH TEST**

**2006/05/18 07:40:46**

**Shot No: 4**

**Station Depth: 1800.03 m**

Evaluation Item	Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result
DC Offset	1	X	-25.3485	milli V	-100.0000	100.0000	PASS
RMS Noise Level	1	X	0.1294	micro V	-	0.5000	PASS
Noise Peak	1	X	0.5501	micro V	-	2.0000	PASS
DC Offset	1	Y	-25.4722	milli V	-100.0000	100.0000	PASS
RMS Noise Level	1	Y	0.1335	micro V	-	0.5000	PASS
Noise Peak	1	Y	0.4803	micro V	-	2.0000	PASS
DC Offset	1	Z	-25.2449	milli V	-100.0000	100.0000	PASS
RMS Noise Level	1	Z	0.1320	micro V	-	0.5000	PASS
Noise Peak	1	Z	0.4471	micro V	-	2.0000	PASS
DC Offset	2	X	-25.0030	milli V	-100.0000	100.0000	PASS
RMS Noise Level	2	X	0.1309	micro V	-	0.5000	PASS
Noise Peak	2	X	0.4741	micro V	-	2.0000	PASS
DC Offset	2	Y	-24.7984	milli V	-100.0000	100.0000	PASS
RMS Noise Level	2	Y	0.1293	micro V	-	0.5000	PASS
Noise Peak	2	Y	0.4739	micro V	-	2.0000	PASS
DC Offset	2	Z	-25.2429	milli V	-100.0000	100.0000	PASS
RMS Noise Level	2	Z	0.1297	micro V	-	0.5000	PASS
Noise Peak	2	Z	0.5261	micro V	-	2.0000	PASS
DC Offset	3	X	-25.1008	milli V	-100.0000	100.0000	PASS
RMS Noise Level	3	X	0.1331	micro V	-	0.5000	PASS
Noise Peak	3	X	0.4858	micro V	-	2.0000	PASS
DC Offset	3	Y	-25.4852	milli V	-100.0000	100.0000	PASS
RMS Noise Level	3	Y	0.1386	micro V	-	0.5000	PASS
Noise Peak	3	Y	0.5575	micro V	-	2.0000	PASS
DC Offset	3	Z	-25.2754	milli V	-100.0000	100.0000	PASS
RMS Noise Level	3	Z	0.1339	micro V	-	0.5000	PASS
Noise Peak	3	Z	0.4831	micro V	-	2.0000	PASS
DC Offset	4	X	-25.2483	milli V	-100.0000	100.0000	PASS
RMS Noise Level	4	X	0.1293	micro V	-	0.5000	PASS
Noise Peak	4	X	0.4598	micro V	-	2.0000	PASS
DC Offset	4	Y	-25.1274	milli V	-100.0000	100.0000	PASS
RMS Noise Level	4	Y	0.1355	micro V	-	0.5000	PASS
Noise Peak	4	Y	0.5054	micro V	-	2.0000	PASS
DC Offset	4	Z	-25.1600	milli V	-100.0000	100.0000	PASS
RMS Noise Level	4	Z	0.1338	micro V	-	0.5000	PASS
Noise Peak	4	Z	0.5465	micro V	-	2.0000	PASS
DC Offset	5	X	-25.0554	milli V	-100.0000	100.0000	PASS
RMS Noise Level	5	X	0.1304	micro V	-	0.5000	PASS
Noise Peak	5	X	0.5001	micro V	-	2.0000	PASS
DC Offset	5	Y	-25.3560	milli V	-100.0000	100.0000	PASS
RMS Noise Level	5	Y	0.1305	micro V	-	0.5000	PASS
Noise Peak	5	Y	0.5446	micro V	-	2.0000	PASS
DC Offset	5	Z	-25.3494	milli V	-100.0000	100.0000	PASS

RMS Noise Level	5	Z	0.1374	micro V	-	0.5000	PASS
Noise Peak	5	Z	0.4888	micro V	-	2.0000	PASS
DC Offset	6	X	-25.3436	milli V	-100.0000	100.0000	PASS
RMS Noise Level	6	X	0.1315	micro V	-	0.5000	PASS
Noise Peak	6	X	0.4794	micro V	-	2.0000	PASS
DC Offset	6	Y	-25.0402	milli V	-100.0000	100.0000	PASS
RMS Noise Level	6	Y	0.1304	micro V	-	0.5000	PASS
Noise Peak	6	Y	0.4524	micro V	-	2.0000	PASS
DC Offset	6	Z	-24.9099	milli V	-100.0000	100.0000	PASS
RMS Noise Level	6	Z	0.1326	micro V	-	0.5000	PASS
Noise Peak	6	Z	0.5089	micro V	-	2.0000	PASS
DC Offset	7	X	-25.1640	milli V	-100.0000	100.0000	PASS
RMS Noise Level	7	X	0.1345	micro V	-	0.5000	PASS
Noise Peak	7	X	0.4769	micro V	-	2.0000	PASS
DC Offset	7	Y	-24.9917	milli V	-100.0000	100.0000	PASS
RMS Noise Level	7	Y	0.1337	micro V	-	0.5000	PASS
Noise Peak	7	Y	0.5136	micro V	-	2.0000	PASS
DC Offset	7	Z	-25.1602	milli V	-100.0000	100.0000	PASS
RMS Noise Level	7	Z	0.1356	micro V	-	0.5000	PASS
Noise Peak	7	Z	0.4875	micro V	-	2.0000	PASS
DC Offset	8	X	-25.1836	milli V	-100.0000	100.0000	PASS
RMS Noise Level	8	X	0.1319	micro V	-	0.5000	PASS
Noise Peak	8	X	0.4428	micro V	-	2.0000	PASS
DC Offset	8	Y	-25.0047	milli V	-100.0000	100.0000	PASS
RMS Noise Level	8	Y	0.1322	micro V	-	0.5000	PASS
Noise Peak	8	Y	0.5865	micro V	-	2.0000	PASS
DC Offset	8	Z	-25.0689	milli V	-100.0000	100.0000	PASS
RMS Noise Level	8	Z	0.1342	micro V	-	0.5000	PASS
Noise Peak	8	Z	0.5188	micro V	-	2.0000	PASS

**ELECTRICAL DISTORTION TEST**

2006/05/18 07:41:11

Shot No: 5

Station Depth: 1800.03 m

Evaluation Item	Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result
Total Harmonic Distortion	1	X	-97.7425	dB	-	-90.0000	PASS
Total Harmonic Distortion	1	Y	-98.2710	dB	-	-90.0000	PASS
Total Harmonic Distortion	1	Z	-97.5904	dB	-	-90.0000	PASS
Total Harmonic Distortion	2	X	-94.1284	dB	-	-90.0000	PASS
Total Harmonic Distortion	2	Y	-95.0258	dB	-	-90.0000	PASS
Total Harmonic Distortion	2	Z	-98.0697	dB	-	-90.0000	PASS
Total Harmonic Distortion	3	X	-100.1811	dB	-	-90.0000	PASS
Total Harmonic Distortion	3	Y	-99.9935	dB	-	-90.0000	PASS
Total Harmonic Distortion	3	Z	-101.4127	dB	-	-90.0000	PASS
Total Harmonic Distortion	4	X	-100.1181	dB	-	-90.0000	PASS
Total Harmonic Distortion	4	Y	-100.7862	dB	-	-90.0000	PASS
Total Harmonic Distortion	4	Z	-98.3893	dB	-	-90.0000	PASS
Total Harmonic Distortion	5	X	-95.2514	dB	-	-90.0000	PASS
Total Harmonic Distortion	5	Y	-96.4761	dB	-	-90.0000	PASS
Total Harmonic Distortion	5	Z	-95.7669	dB	-	-90.0000	PASS
Total Harmonic Distortion	6	X	-97.6756	dB	-	-90.0000	PASS
Total Harmonic Distortion	6	Y	-100.6928	dB	-	-90.0000	PASS
Total Harmonic Distortion	6	Z	-97.4649	dB	-	-90.0000	PASS
Total Harmonic Distortion	7	X	-99.0249	dB	-	-90.0000	PASS
Total Harmonic Distortion	7	Y	-98.4850	dB	-	-90.0000	PASS
Total Harmonic Distortion	7	Z	-97.6340	dB	-	-90.0000	PASS
Total Harmonic Distortion	8	X	-98.2895	dB	-	-90.0000	PASS
Total Harmonic Distortion	8	Y	-97.5765	dB	-	-90.0000	PASS
Total Harmonic Distortion	8	Z	-99.0034	dB	-	-90.0000	PASS

**SYSTEM DYNAMIC RANGE TEST**

2006/05/18 07:41:43

Shot No: 6

Station Depth: 1800.03 m

Evaluation Item	Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result

System Dynamic Range	1	X	108.1890	dB	103.0000	-	PASS
System Dynamic Range	1	Y	108.0112	dB	103.0000	-	PASS
System Dynamic Range	1	Z	107.5862	dB	103.0000	-	PASS
System Dynamic Range	2	X	106.3611	dB	103.0000	-	PASS
System Dynamic Range	2	Y	106.5952	dB	103.0000	-	PASS
System Dynamic Range	2	Z	106.9815	dB	103.0000	-	PASS
System Dynamic Range	3	X	106.5216	dB	103.0000	-	PASS
System Dynamic Range	3	Y	106.3187	dB	103.0000	-	PASS
System Dynamic Range	3	Z	106.5973	dB	103.0000	-	PASS
System Dynamic Range	4	X	107.0726	dB	103.0000	-	PASS
System Dynamic Range	4	Y	107.0948	dB	103.0000	-	PASS
System Dynamic Range	4	Z	107.0840	dB	103.0000	-	PASS
System Dynamic Range	5	X	107.0039	dB	103.0000	-	PASS
System Dynamic Range	5	Y	106.9447	dB	103.0000	-	PASS
System Dynamic Range	5	Z	106.9632	dB	103.0000	-	PASS
System Dynamic Range	6	X	106.4462	dB	103.0000	-	PASS
System Dynamic Range	6	Y	106.4704	dB	103.0000	-	PASS
System Dynamic Range	6	Z	106.3962	dB	103.0000	-	PASS
System Dynamic Range	7	X	107.5572	dB	103.0000	-	PASS
System Dynamic Range	7	Y	107.8150	dB	103.0000	-	PASS
System Dynamic Range	7	Z	107.4781	dB	103.0000	-	PASS
System Dynamic Range	8	X	107.7674	dB	103.0000	-	PASS
System Dynamic Range	8	Y	108.1236	dB	103.0000	-	PASS
System Dynamic Range	8	Z	107.7246	dB	103.0000	-	PASS

**AMPLIFIER GAIN 2 TEST**

**2006/05/18 07:42:14**

**Shot No: 7**

**Station Depth: 1800.03 m**

<b>Evaluation Item</b>	<b>Shuttle</b>	<b>Channel</b>	<b>Value</b>	<b>Unit</b>	<b>Lower Limit</b>	<b>Upper Limit</b>	<b>Result</b>
Gain Accuracy	1	X	0.1191	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	1	X	0.0000	dB	-0.5000	0.5000	PASS
Gain Accuracy	1	Y	0.1318	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	1	Y	0.0000	dB	-0.5000	0.5000	PASS
Gain Accuracy	1	Z	0.1161	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	1	Z	0.0000	dB	-0.5000	0.5000	PASS
Gain Accuracy	2	X	0.1230	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	2	X	0.0000	dB	-0.5000	0.5000	PASS
Gain Accuracy	2	Y	0.1191	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	2	Y	0.0000	dB	-0.5000	0.5000	PASS
Gain Accuracy	2	Z	0.1451	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	2	Z	0.0000	dB	-0.5000	0.5000	PASS
Gain Accuracy	3	X	0.1224	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	3	X	0.0000	dB	-0.5000	0.5000	PASS
Gain Accuracy	3	Y	0.1330	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	3	Y	0.0000	dB	-0.5000	0.5000	PASS
Gain Accuracy	3	Z	0.1310	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	3	Z	0.0000	dB	-0.5000	0.5000	PASS
Gain Accuracy	4	X	0.1325	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	4	X	0.0000	dB	-0.5000	0.5000	PASS
Gain Accuracy	4	Y	0.1220	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	4	Y	0.0000	dB	-0.5000	0.5000	PASS
Gain Accuracy	4	Z	0.1311	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	4	Z	0.0000	dB	-0.5000	0.5000	PASS
Gain Accuracy	5	X	0.1165	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	5	X	0.0000	dB	-0.5000	0.5000	PASS
Gain Accuracy	5	Y	0.1220	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	5	Y	0.0000	dB	-0.5000	0.5000	PASS
Gain Accuracy	5	Z	0.1208	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	5	Z	0.0000	dB	-0.5000	0.5000	PASS
Gain Accuracy	6	X	0.1104	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	6	X	0.0000	dB	-0.5000	0.5000	PASS
Gain Accuracy	6	Y	0.1054	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	6	Y	0.0000	dB	-0.5000	0.5000	PASS

Gain Accuracy	6	Z	0.1124	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	6	Z	0.0000	dB	-0.5000	0.5000	PASS
Gain Accuracy	7	X	0.1050	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	7	X	0.0000	dB	-0.5000	0.5000	PASS
Gain Accuracy	7	Y	0.1159	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	7	Y	0.0000	dB	-0.5000	0.5000	PASS
Gain Accuracy	7	Z	0.1245	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	7	Z	0.0000	dB	-0.5000	0.5000	PASS
Gain Accuracy	8	X	0.1086	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	8	X	0.0000	dB	-0.5000	0.5000	PASS
Gain Accuracy	8	Y	0.1172	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	8	Y	0.0000	dB	-0.5000	0.5000	PASS
Gain Accuracy	8	Z	0.1075	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	8	Z	0.0000	dB	-0.5000	0.5000	PASS

**AMPLIFIER GAIN 4 TEST**

**2006/05/18 07:42:30**

**Shot No: 8**

**Station Depth: 1800.03 m**

Evaluation Item	Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result
Gain Accuracy	1	X	0.1069	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	1	X	0.0122	dB	-0.5000	0.5000	PASS
Gain Accuracy	1	Y	0.1276	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	1	Y	0.0042	dB	-0.5000	0.5000	PASS
Gain Accuracy	1	Z	0.1004	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	1	Z	0.0157	dB	-0.5000	0.5000	PASS
Gain Accuracy	2	X	0.1213	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	2	X	0.0017	dB	-0.5000	0.5000	PASS
Gain Accuracy	2	Y	0.1150	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	2	Y	0.0041	dB	-0.5000	0.5000	PASS
Gain Accuracy	2	Z	0.1437	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	2	Z	0.0014	dB	-0.5000	0.5000	PASS
Gain Accuracy	3	X	0.1213	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	3	X	0.0011	dB	-0.5000	0.5000	PASS
Gain Accuracy	3	Y	0.1320	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	3	Y	0.0010	dB	-0.5000	0.5000	PASS
Gain Accuracy	3	Z	0.1352	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	3	Z	-0.0042	dB	-0.5000	0.5000	PASS
Gain Accuracy	4	X	0.1319	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	4	X	0.0006	dB	-0.5000	0.5000	PASS
Gain Accuracy	4	Y	0.1188	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	4	Y	0.0032	dB	-0.5000	0.5000	PASS
Gain Accuracy	4	Z	0.1281	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	4	Z	0.0030	dB	-0.5000	0.5000	PASS
Gain Accuracy	5	X	0.1144	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	5	X	0.0020	dB	-0.5000	0.5000	PASS
Gain Accuracy	5	Y	0.1226	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	5	Y	-0.0007	dB	-0.5000	0.5000	PASS
Gain Accuracy	5	Z	0.1161	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	5	Z	0.0047	dB	-0.5000	0.5000	PASS
Gain Accuracy	6	X	0.1077	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	6	X	0.0027	dB	-0.5000	0.5000	PASS
Gain Accuracy	6	Y	0.1041	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	6	Y	0.0013	dB	-0.5000	0.5000	PASS
Gain Accuracy	6	Z	0.1111	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	6	Z	0.0013	dB	-0.5000	0.5000	PASS
Gain Accuracy	7	X	0.1024	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	7	X	0.0026	dB	-0.5000	0.5000	PASS
Gain Accuracy	7	Y	0.1138	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	7	Y	0.0021	dB	-0.5000	0.5000	PASS
Gain Accuracy	7	Z	0.1231	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	7	Z	0.0014	dB	-0.5000	0.5000	PASS
Gain Accuracy	8	X	0.1071	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	8	X	0.0015	dB	-0.5000	0.5000	PASS



Gain Accuracy	8	Y	0.1170	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	8	Y	0.0002	dB	-0.5000	0.5000	PASS
Gain Accuracy	8	Z	0.1035	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	8	Z	0.0040	dB	-0.5000	0.5000	PASS

**AMPLIFIER GAIN 8 TEST**

2006/05/18 07:42:47

Shot No: 9

Station Depth: 1800.03 m

Evaluation Item	Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result
Gain Accuracy	1	X	0.1034	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	1	X	0.0156	dB	-0.5000	0.5000	PASS
Gain Accuracy	1	Y	0.1267	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	1	Y	0.0051	dB	-0.5000	0.5000	PASS
Gain Accuracy	1	Z	0.0967	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	1	Z	0.0193	dB	-0.5000	0.5000	PASS
Gain Accuracy	2	X	0.1228	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	2	X	0.0002	dB	-0.5000	0.5000	PASS
Gain Accuracy	2	Y	0.1151	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	2	Y	0.0040	dB	-0.5000	0.5000	PASS
Gain Accuracy	2	Z	0.1437	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	2	Z	0.0013	dB	-0.5000	0.5000	PASS
Gain Accuracy	3	X	0.1214	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	3	X	0.0010	dB	-0.5000	0.5000	PASS
Gain Accuracy	3	Y	0.1342	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	3	Y	-0.0012	dB	-0.5000	0.5000	PASS
Gain Accuracy	3	Z	0.1392	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	3	Z	-0.0082	dB	-0.5000	0.5000	PASS
Gain Accuracy	4	X	0.1344	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	4	X	-0.0019	dB	-0.5000	0.5000	PASS
Gain Accuracy	4	Y	0.1212	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	4	Y	0.0008	dB	-0.5000	0.5000	PASS
Gain Accuracy	4	Z	0.1286	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	4	Z	0.0025	dB	-0.5000	0.5000	PASS
Gain Accuracy	5	X	0.1149	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	5	X	0.0016	dB	-0.5000	0.5000	PASS
Gain Accuracy	5	Y	0.1232	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	5	Y	-0.0013	dB	-0.5000	0.5000	PASS
Gain Accuracy	5	Z	0.1176	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	5	Z	0.0033	dB	-0.5000	0.5000	PASS
Gain Accuracy	6	X	0.1077	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	6	X	0.0027	dB	-0.5000	0.5000	PASS
Gain Accuracy	6	Y	0.1063	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	6	Y	-0.0009	dB	-0.5000	0.5000	PASS
Gain Accuracy	6	Z	0.1092	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	6	Z	0.0032	dB	-0.5000	0.5000	PASS
Gain Accuracy	7	X	0.1019	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	7	X	0.0031	dB	-0.5000	0.5000	PASS
Gain Accuracy	7	Y	0.1133	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	7	Y	0.0026	dB	-0.5000	0.5000	PASS
Gain Accuracy	7	Z	0.1243	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	7	Z	0.0001	dB	-0.5000	0.5000	PASS
Gain Accuracy	8	X	0.1075	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	8	X	0.0011	dB	-0.5000	0.5000	PASS
Gain Accuracy	8	Y	0.1157	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	8	Y	0.0015	dB	-0.5000	0.5000	PASS
Gain Accuracy	8	Z	0.1064	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	8	Z	0.0011	dB	-0.5000	0.5000	PASS

**AMPLIFIER GAIN 16 TEST**

2006/05/18 07:43:03

Shot No: 10

Station Depth: 1800.03 m

Evaluation Item	Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result
Gain Accuracy	1	X	0.0962	dB	-0.5000	0.5000	PASS

Gain Step Accuracy	1	X	0.0229	dB	-0.5000	0.5000	PASS
Gain Accuracy	1	Y	0.1210	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	1	Y	0.0107	dB	-0.5000	0.5000	PASS
Gain Accuracy	1	Z	0.0944	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	1	Z	0.0217	dB	-0.5000	0.5000	PASS
Gain Accuracy	2	X	0.1176	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	2	X	0.0054	dB	-0.5000	0.5000	PASS
Gain Accuracy	2	Y	0.1108	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	2	Y	0.0083	dB	-0.5000	0.5000	PASS
Gain Accuracy	2	Z	0.1400	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	2	Z	0.0050	dB	-0.5000	0.5000	PASS
Gain Accuracy	3	X	0.1180	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	3	X	0.0044	dB	-0.5000	0.5000	PASS
Gain Accuracy	3	Y	0.1310	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	3	Y	0.0019	dB	-0.5000	0.5000	PASS
Gain Accuracy	3	Z	0.1393	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	3	Z	-0.0082	dB	-0.5000	0.5000	PASS
Gain Accuracy	4	X	0.1305	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	4	X	0.0021	dB	-0.5000	0.5000	PASS
Gain Accuracy	4	Y	0.1189	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	4	Y	0.0032	dB	-0.5000	0.5000	PASS
Gain Accuracy	4	Z	0.1246	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	4	Z	0.0066	dB	-0.5000	0.5000	PASS
Gain Accuracy	5	X	0.1094	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	5	X	0.0071	dB	-0.5000	0.5000	PASS
Gain Accuracy	5	Y	0.1202	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	5	Y	0.0017	dB	-0.5000	0.5000	PASS
Gain Accuracy	5	Z	0.1137	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	5	Z	0.0072	dB	-0.5000	0.5000	PASS
Gain Accuracy	6	X	0.1006	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	6	X	0.0098	dB	-0.5000	0.5000	PASS
Gain Accuracy	6	Y	0.1017	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	6	Y	0.0038	dB	-0.5000	0.5000	PASS
Gain Accuracy	6	Z	0.1055	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	6	Z	0.0069	dB	-0.5000	0.5000	PASS
Gain Accuracy	7	X	0.0973	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	7	X	0.0077	dB	-0.5000	0.5000	PASS
Gain Accuracy	7	Y	0.1103	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	7	Y	0.0056	dB	-0.5000	0.5000	PASS
Gain Accuracy	7	Z	0.1200	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	7	Z	0.0044	dB	-0.5000	0.5000	PASS
Gain Accuracy	8	X	0.1042	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	8	X	0.0045	dB	-0.5000	0.5000	PASS
Gain Accuracy	8	Y	0.1121	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	8	Y	0.0051	dB	-0.5000	0.5000	PASS
Gain Accuracy	8	Z	0.1042	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	8	Z	0.0033	dB	-0.5000	0.5000	PASS

**AMPLIFIER GAIN 32 TEST**

2006/05/18 07:43:19

Shot No: 11

Station Depth: 1800.03 m

Evaluation Item	Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result
Gain Accuracy	1	X	0.0958	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	1	X	0.0233	dB	-0.5000	0.5000	PASS
Gain Accuracy	1	Y	0.1254	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	1	Y	0.0063	dB	-0.5000	0.5000	PASS
Gain Accuracy	1	Z	0.0972	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	1	Z	0.0189	dB	-0.5000	0.5000	PASS
Gain Accuracy	2	X	0.1189	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	2	X	0.0041	dB	-0.5000	0.5000	PASS
Gain Accuracy	2	Y	0.1133	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	2	Y	0.0058	dB	-0.5000	0.5000	PASS
Gain Accuracy	2	Z	0.1417	dB	-0.5000	0.5000	PASS

Gain Step Accuracy	2	Z	0.0034	dB	-0.5000	0.5000	PASS
Gain Accuracy	3	X	0.1223	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	3	X	0.0000	dB	-0.5000	0.5000	PASS
Gain Accuracy	3	Y	0.1358	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	3	Y	-0.0028	dB	-0.5000	0.5000	PASS
Gain Accuracy	3	Z	0.1411	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	3	Z	-0.0101	dB	-0.5000	0.5000	PASS
Gain Accuracy	4	X	0.1319	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	4	X	0.0007	dB	-0.5000	0.5000	PASS
Gain Accuracy	4	Y	0.1191	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	4	Y	0.0029	dB	-0.5000	0.5000	PASS
Gain Accuracy	4	Z	0.1276	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	4	Z	0.0035	dB	-0.5000	0.5000	PASS
Gain Accuracy	5	X	0.1106	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	5	X	0.0059	dB	-0.5000	0.5000	PASS
Gain Accuracy	5	Y	0.1250	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	5	Y	-0.0030	dB	-0.5000	0.5000	PASS
Gain Accuracy	5	Z	0.1165	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	5	Z	0.0043	dB	-0.5000	0.5000	PASS
Gain Accuracy	6	X	0.1054	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	6	X	0.0050	dB	-0.5000	0.5000	PASS
Gain Accuracy	6	Y	0.1015	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	6	Y	0.0040	dB	-0.5000	0.5000	PASS
Gain Accuracy	6	Z	0.1098	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	6	Z	0.0026	dB	-0.5000	0.5000	PASS
Gain Accuracy	7	X	0.0993	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	7	X	0.0057	dB	-0.5000	0.5000	PASS
Gain Accuracy	7	Y	0.1134	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	7	Y	0.0025	dB	-0.5000	0.5000	PASS
Gain Accuracy	7	Z	0.1217	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	7	Z	0.0028	dB	-0.5000	0.5000	PASS
Gain Accuracy	8	X	0.1121	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	8	X	-0.0035	dB	-0.5000	0.5000	PASS
Gain Accuracy	8	Y	0.1151	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	8	Y	0.0021	dB	-0.5000	0.5000	PASS
Gain Accuracy	8	Z	0.0964	dB	-0.5000	0.5000	PASS
Gain Step Accuracy	8	Z	0.0111	dB	-0.5000	0.5000	PASS

**CROSS TALK X TEST**

**2006/05/18 07:43:51**

**Shot No: 12**

**Station Depth: 1800.03 m**

Evaluation Item	Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result
Cross Talk X-Y	1	-	-99.4320	dB	-	-90.0000	PASS
Cross Talk X-Z	1	-	-97.9687	dB	-	-90.0000	PASS
Cross Talk X-Y	2	-	-99.4920	dB	-	-90.0000	PASS
Cross Talk X-Z	2	-	-98.2366	dB	-	-90.0000	PASS
Cross Talk X-Y	3	-	-99.3415	dB	-	-90.0000	PASS
Cross Talk X-Z	3	-	-97.8518	dB	-	-90.0000	PASS
Cross Talk X-Y	4	-	-99.5297	dB	-	-90.0000	PASS
Cross Talk X-Z	4	-	-97.5764	dB	-	-90.0000	PASS
Cross Talk X-Y	5	-	-99.6585	dB	-	-90.0000	PASS
Cross Talk X-Z	5	-	-98.4294	dB	-	-90.0000	PASS
Cross Talk X-Y	6	-	-99.4328	dB	-	-90.0000	PASS
Cross Talk X-Z	6	-	-98.1996	dB	-	-90.0000	PASS
Cross Talk X-Y	7	-	-99.3200	dB	-	-90.0000	PASS
Cross Talk X-Z	7	-	-98.2298	dB	-	-90.0000	PASS
Cross Talk X-Y	8	-	-99.2949	dB	-	-90.0000	PASS
Cross Talk X-Z	8	-	-98.2358	dB	-	-90.0000	PASS

**CROSS TALK Y TEST**

**2006/05/18 07:44:28**

**Shot No: 13**

**Station Depth: 1800.03 m**

Evaluation Item	Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result

Cross Talk Y-Z	1	-	-97.5034	dB	-	-90.0000	PASS
Cross Talk Y-X	1	-	-98.9636	dB	-	-90.0000	PASS
Cross Talk Y-Z	2	-	-97.8103	dB	-	-90.0000	PASS
Cross Talk Y-X	2	-	-99.3417	dB	-	-90.0000	PASS
Cross Talk Y-Z	3	-	-97.2929	dB	-	-90.0000	PASS
Cross Talk Y-X	3	-	-99.0892	dB	-	-90.0000	PASS
Cross Talk Y-Z	4	-	-97.0005	dB	-	-90.0000	PASS
Cross Talk Y-X	4	-	-98.7539	dB	-	-90.0000	PASS
Cross Talk Y-Z	5	-	-98.0080	dB	-	-90.0000	PASS
Cross Talk Y-X	5	-	-99.1350	dB	-	-90.0000	PASS
Cross Talk Y-Z	6	-	-97.8453	dB	-	-90.0000	PASS
Cross Talk Y-X	6	-	-98.9742	dB	-	-90.0000	PASS
Cross Talk Y-Z	7	-	-97.8385	dB	-	-90.0000	PASS
Cross Talk Y-X	7	-	-99.1537	dB	-	-90.0000	PASS
Cross Talk Y-Z	8	-	-97.8463	dB	-	-90.0000	PASS
Cross Talk Y-X	8	-	-99.4392	dB	-	-90.0000	PASS

**CROSS TALK Z TEST**

**2006/05/18 07:45:05**

**Shot No: 14**

**Station Depth: 1800.03 m**

Evaluation Item	Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result
Cross Talk Z-X	1	-	-96.3514	dB	-	-90.0000	PASS
Cross Talk Z-Y	1	-	-96.0372	dB	-	-90.0000	PASS
Cross Talk Z-X	2	-	-97.1783	dB	-	-90.0000	PASS
Cross Talk Z-Y	2	-	-96.8370	dB	-	-90.0000	PASS
Cross Talk Z-X	3	-	-96.7040	dB	-	-90.0000	PASS
Cross Talk Z-Y	3	-	-96.0016	dB	-	-90.0000	PASS
Cross Talk Z-X	4	-	-96.0092	dB	-	-90.0000	PASS
Cross Talk Z-Y	4	-	-95.6466	dB	-	-90.0000	PASS
Cross Talk Z-X	5	-	-96.9368	dB	-	-90.0000	PASS
Cross Talk Z-Y	5	-	-96.9514	dB	-	-90.0000	PASS
Cross Talk Z-X	6	-	-96.7019	dB	-	-90.0000	PASS
Cross Talk Z-Y	6	-	-96.2809	dB	-	-90.0000	PASS
Cross Talk Z-X	7	-	-96.9114	dB	-	-90.0000	PASS
Cross Talk Z-Y	7	-	-96.4998	dB	-	-90.0000	PASS
Cross Talk Z-X	8	-	-97.3069	dB	-	-90.0000	PASS
Cross Talk Z-Y	8	-	-97.1580	dB	-	-90.0000	PASS

**IMPULSE RESPONSE TEST**

**2006/05/18 07:45:40**

**Shot No: 15**

**Station Depth: 1800.03 m**

Evaluation Item	Shuttle	Channel	Value	Unit	Lower Limit	Upper Limit	Result
Amplitude (0.3Hz)	1	X	-1.5021	dB	-5.0000	-	PASS
Amplitude (400Hz)	1	X	-3.5753	dB	-5.0000	-	PASS
Impulse Amplitude	1	X	572.2405	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	1	X	0.0000	degree	-	-	-
Amplitude (0.3Hz)	1	Y	-1.4229	dB	-5.0000	-	PASS
Amplitude (400Hz)	1	Y	-3.5763	dB	-5.0000	-	PASS
Impulse Amplitude	1	Y	573.1039	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	1	Y	-0.7798	degree	-	-	-
Amplitude (0.3Hz)	1	Z	-1.4628	dB	-5.0000	-	PASS
Amplitude (400Hz)	1	Z	-3.5753	dB	-5.0000	-	PASS
Impulse Amplitude	1	Z	572.0522	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	1	Z	-0.4654	degree	-	-	-
Amplitude (0.3Hz)	2	X	-1.4382	dB	-5.0000	-	PASS
Amplitude (400Hz)	2	X	-3.5799	dB	-5.0000	-	PASS
Impulse Amplitude	2	X	572.0258	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	2	X	-0.0072	degree	-	-	-
Amplitude (0.3Hz)	2	Y	-1.5700	dB	-5.0000	-	PASS
Amplitude (400Hz)	2	Y	-3.5776	dB	-5.0000	-	PASS
Impulse Amplitude	2	Y	571.8508	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	2	Y	1.2489	degree	-	-	-
Amplitude (0.3Hz)	2	Z	-1.5951	dB	-5.0000	-	PASS

Amplitude (400Hz)	2	Z	-3.5772	dB	-5.0000	-	PASS
Impulse Amplitude	2	Z	573.3697	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	2	Z	1.5693	degree	-	-	-
Amplitude (0.3Hz)	3	X	-1.4565	dB	-5.0000	-	PASS
Amplitude (400Hz)	3	X	-3.5748	dB	-5.0000	-	PASS
Impulse Amplitude	3	X	571.7964	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	3	X	-0.3118	degree	-	-	-
Amplitude (0.3Hz)	3	Y	-1.4544	dB	-5.0000	-	PASS
Amplitude (400Hz)	3	Y	-3.5755	dB	-5.0000	-	PASS
Impulse Amplitude	3	Y	572.6381	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	3	Y	-0.4897	degree	-	-	-
Amplitude (0.3Hz)	3	Z	-1.5103	dB	-5.0000	-	PASS
Amplitude (400Hz)	3	Z	-3.5746	dB	-5.0000	-	PASS
Impulse Amplitude	3	Z	572.6651	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	3	Z	0.1809	degree	-	-	-
Amplitude (0.3Hz)	4	X	-1.6590	dB	-5.0000	-	PASS
Amplitude (400Hz)	4	X	-3.5771	dB	-5.0000	-	PASS
Impulse Amplitude	4	X	572.5507	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	4	X	1.8255	degree	-	-	-
Amplitude (0.3Hz)	4	Y	-1.5482	dB	-5.0000	-	PASS
Amplitude (400Hz)	4	Y	-3.5786	dB	-5.0000	-	PASS
Impulse Amplitude	4	Y	571.5164	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	4	Y	0.7095	degree	-	-	-
Amplitude (0.3Hz)	4	Z	-1.5345	dB	-5.0000	-	PASS
Amplitude (400Hz)	4	Z	-3.5783	dB	-5.0000	-	PASS
Impulse Amplitude	4	Z	572.4480	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	4	Z	0.4527	degree	-	-	-
Amplitude (0.3Hz)	5	X	-1.5804	dB	-5.0000	-	PASS
Amplitude (400Hz)	5	X	-3.5747	dB	-5.0000	-	PASS
Impulse Amplitude	5	X	571.4340	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	5	X	1.2293	degree	-	-	-
Amplitude (0.3Hz)	5	Y	-1.5011	dB	-5.0000	-	PASS
Amplitude (400Hz)	5	Y	-3.5748	dB	-5.0000	-	PASS
Impulse Amplitude	5	Y	571.8765	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	5	Y	0.3433	degree	-	-	-
Amplitude (0.3Hz)	5	Z	-1.6665	dB	-5.0000	-	PASS
Amplitude (400Hz)	5	Z	-3.5768	dB	-5.0000	-	PASS
Impulse Amplitude	5	Z	571.8781	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	5	Z	1.9523	degree	-	-	-
Amplitude (0.3Hz)	6	X	-1.6007	dB	-5.0000	-	PASS
Amplitude (400Hz)	6	X	-3.5779	dB	-5.0000	-	PASS
Impulse Amplitude	6	X	570.6155	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	6	X	1.4173	degree	-	-	-
Amplitude (0.3Hz)	6	Y	-1.4971	dB	-5.0000	-	PASS
Amplitude (400Hz)	6	Y	-3.5755	dB	-5.0000	-	PASS
Impulse Amplitude	6	Y	570.7161	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	6	Y	0.2698	degree	-	-	-
Amplitude (0.3Hz)	6	Z	-1.5630	dB	-5.0000	-	PASS
Amplitude (400Hz)	6	Z	-3.5725	dB	-5.0000	-	PASS
Impulse Amplitude	6	Z	571.2681	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	6	Z	0.9202	degree	-	-	-
Amplitude (0.3Hz)	7	X	-1.5926	dB	-5.0000	-	PASS
Amplitude (400Hz)	7	X	-3.5743	dB	-5.0000	-	PASS
Impulse Amplitude	7	X	570.4356	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	7	X	1.2508	degree	-	-	-
Amplitude (0.3Hz)	7	Y	-1.5774	dB	-5.0000	-	PASS
Amplitude (400Hz)	7	Y	-3.5765	dB	-5.0000	-	PASS
Impulse Amplitude	7	Y	571.5049	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	7	Y	1.1643	degree	-	-	-
Amplitude (0.3Hz)	7	Z	-1.5264	dB	-5.0000	-	PASS
Amplitude (400Hz)	7	Z	-3.5744	dB	-5.0000	-	PASS
Impulse Amplitude	7	Z	572.0543	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	7	Z	0.4332	degree	-	-	-

Amplitude (0.3Hz)	8	X	-1.5997	dB	-5.0000	-	PASS
Amplitude (400Hz)	8	X	-3.5766	dB	-5.0000	-	PASS
Impulse Amplitude	8	X	570.4099	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	8	X	1.2453	degree	-	-	-
Amplitude (0.3Hz)	8	Y	-1.6299	dB	-5.0000	-	PASS
Amplitude (400Hz)	8	Y	-3.5735	dB	-5.0000	-	PASS
Impulse Amplitude	8	Y	571.5926	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	8	Y	1.2066	degree	-	-	-
Amplitude (0.3Hz)	8	Z	-1.6927	dB	-5.0000	-	PASS
Amplitude (400Hz)	8	Z	-3.5760	dB	-5.0000	-	PASS
Impulse Amplitude	8	Z	570.6056	milli V	-	-	-
Phase Diff. at 0.3Hz from X1	8	Z	2.0172	degree	-	-	-