Schlumberger

Company: Lamont Doherty

Well: ODP Leg 206, Site 1256D
Field: Fast Spreading Crust
Country: Coata Rica Ocean: Pacific Ocean

WST LOG

Country: Coata Rica
Field: Fast Spreading Crust
Location: Rig- Joides Resolution
Well: ODP Leg 206, Site 1256D
Company: Lamont Doherty

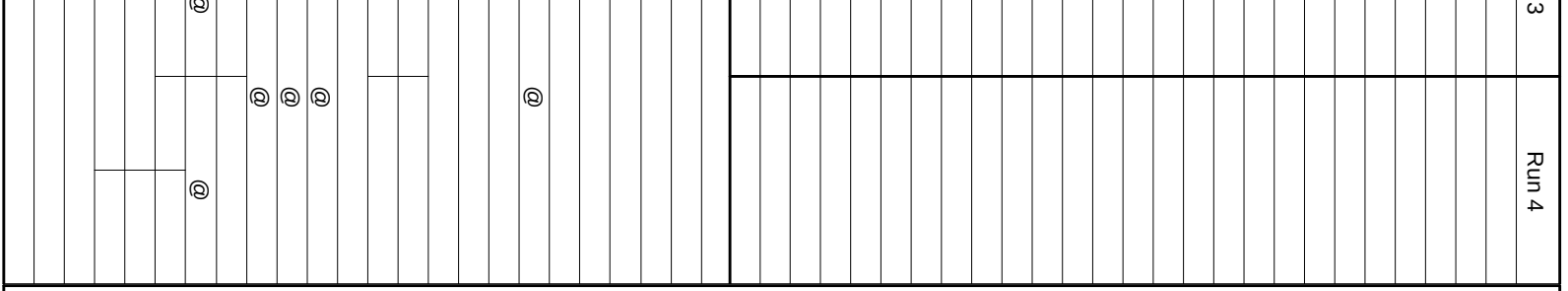
LOCATION

Rig- Joides Resolution		Elev.: K.B.	11.3 m
		G.L.	-3645.4 m
		D.F.	11 m
Permanent Datum:	GROUND LEVEL	Elev.:	0 m
Log Measured From:	DES	11.3 m	above Perm. Datum
Drilling Measured From:	DES		

API Serial No.	Max. Hole Devi.	Longitude	Latitude
		91.9343 W	6.7365 N

	Run 1	Run 2	Run 1	Run 2
Logging Date				
Run Number	1			
Depth Driller	4397.4 m			
Schlumberger Depth	4374.5 m			
Bottom Log Interval	4374.5 m			
Top Log Interval	3940 m			
Casing Driller Size @ Depth	0.000 in @ 3914.47 m	@	@	
Casing Schlumberger	3914.47 m			
Bit Size	9.875 in			
Type Fluid In Hole	SALT WATER			
MUD Density / Viscosity	1.066 g/cm3			
MUD Fluid Loss / PH				
MUD Source Of Sample				
RM @ Measured Temperature	0.322 ohm.m @ 23 degC	@	@	@
RMF @ Measured Temperature	@	@	@	@
RMC @ Measured Temperature	@	@	@	@
Source RMF / RMC				
RM @ MRT / RMF @ MRT	0.362 @ 18	@ 18	@	@
Maximum Recorded Temperatures	18 degC			
Circulation Stopped / Time	12/27/02	1100		
Logger On Bottom / Time	12/28/02	See Log		
Unit Number / Location	99 Houston			
Recorded By	Steve Kittredge			
Witnessed By	FLORENCE EINAUDI			

	Run 1	Run 2	Run 1	Run 2
Logging Date				
Run Number				
Depth Driller				
Schlumberger Depth				
Bottom Log Interval				
Top Log Interval				
Casing Driller Size @ Depth	@			
Casing Schlumberger				
Bit Size				
Type Fluid In Hole				
MUD Density / Viscosity				
MUD Fluid Loss / PH				
MUD Source Of Sample				
RM @ Measured Temperature	@			
RMF @ Measured Temperature	@			
RMC @ Measured Temperature	@			
Source RMF / RMC				
RM @ MRT / RMF @ MRT	@	@		
Maximum Recorded Temperatures				
Circulation Stopped / Time				
Logger On Bottom / Time				
Unit Number / Location				
Recorded By				
Witnessed By				



DISCLAIMER

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OTHER SERVICES1	OTHER SERVICES2
OS1:	OS1:
OS2:	OS2:
OS3:	OS3:
OS4:	OS4:
OS5:	OS5:

REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
Hole cored with RCB	
All depths in Meters Below Rig Floor (MBRF).	
SEA WATER USED TO FILL THE HOLE.	
WHC was run.	
Sea Floor- 3645.4 MBRF	
Total Depth Driller- 4397.4 MBRF.	
Total Depth Logger- 4374.5 MBRF.	
Casing Logger- 3914.4 MBRF.	
SEA FLOOR DRILLER- 3645.4 MBRF.	

RUN 1

SERVICE ORDER #:
PROGRAM VERSION: 10C0-306
FLUID LEVEL:

LOGGED INTERVAL	START	STOP

RUN 2

SERVICE ORDER #:
PROGRAM VERSION:
FLUID LEVEL:

LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION

RUN 1

SURFACE EQUIPMENT

WSAM
OPTION
BGKT_PANEL

DOWNHOLE EQUIPMENT

LEH-QT 6.73
LEH-QT

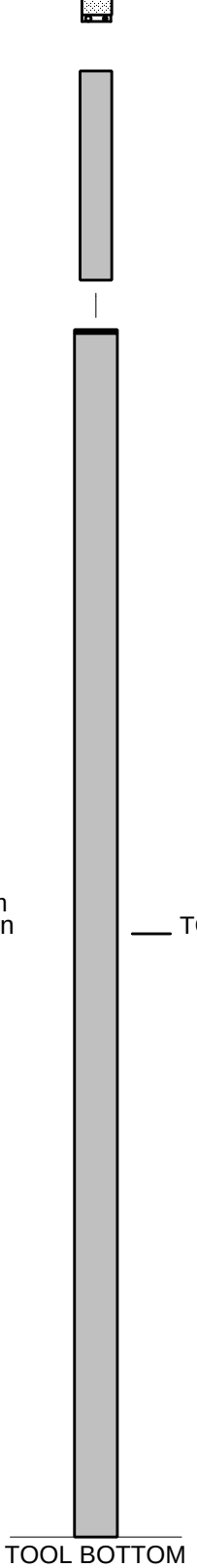
RUN 2

SAH-E
SAH-E

5.84

WSTA-A
WSTA_SONDE
OYO-GEOPHONES

4.98



MAXIMUM STRING DIAMETER 4.63 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN METERS

VSP STACK SUMMARY LISTING (TWO WAY CORRECTED TIMES)

Gun and Hydrophone Coordinates:

Gun Azimuth 0.0 DEG
Gun Offset 49.0 M
Gun Depth From Schlumberger Zero 13.3 M
Hydrophone Depth From Schlumberger Zero 13.3 M

SRD Depth From Schlumberger Zero 11.3 M

Other VSP constants:

True Vertical Time Correction YES
Surface Velocity 1524.00 M/S

Stack number	Measured Depth (1) (M)	Measured Trans Time SRD (2) (MS)	True Vert. Depth from (3) (M)	Corrected Trans Time (4) (MS)	Interval Velocity (M/S)
12	3940.0	2590.31	3928.7	5182.84	5753.81
11	3980.0	2597.26	3968.7	5196.74	4779.04
10	4020.0	2605.62	4008.7	5213.48	3640.59
9	4055.1	2615.26	4043.8	5232.77	4355.58
8	4090.0	2623.27	4078.7	5248.79	5013.10
7	4125.0	2630.25	4113.7	5262.75	4271.00
6	4165.0	2639.61	4153.7	5281.49	4974.98
5	4215.0	2649.66	4203.7	5301.59	6049.77
4	4255.0	2656.27	4243.7	5314.81	4556.19
3	4305.1	2667.26	4293.8	5336.80	5408.73

2	4345.0	2674.64	4333.7	5351.56	5247.60
1	4374.5	2680.26	4363.2	5362.80	0.00

(1)Measured Depth is Cable Depth Referenced to Schlumberger Zero.
(2)TVD is referenced to SRD (5)
(3)TW Transit time with respect to SRD(5) corrected for Deviation
(4)Interval Velocity corrected for Deviation.
(5)SRD is Seismic Reference Depth.

VSP STACK SUMMARY LISTING

Gun and Hydrophone Coordinates:

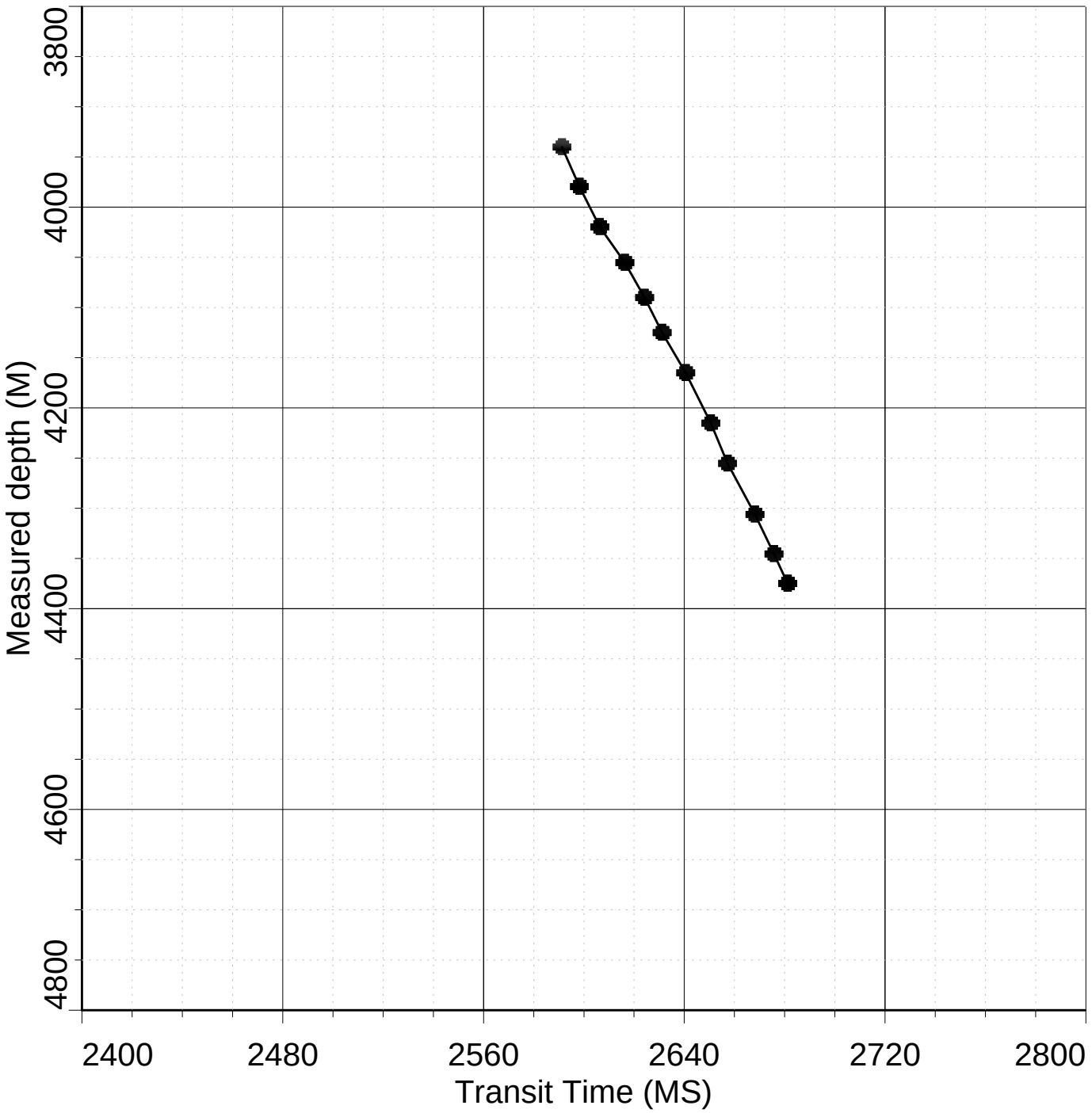
Gun Azimuth		0.0 DEG
Gun Offset		49.0 M
Gun Depth	From Schlumberger Zero	13.3 M
Hydrophone Depth	From Schlumberger Zero	13.3 M
SRD Depth	From Schlumberger Zero	11.3 M

Other VSP constants:

True Vertical Time Correction	YES
Surface Velocity	1524.00 M/S

Stack number	Measured Depth (1) (M)	Measured Trans Time (MS)	True Vert. Depth from SRD (2) (M)	Corrected Trans Time (3) (MS)	Interval Velocity (4) (M/S)
12	3940.0	2590.31	3928.7	2591.42	5753.81
11	3980.0	2597.26	3968.7	2598.37	4779.04
10	4020.0	2605.62	4008.7	2606.74	3640.59
9	4055.1	2615.26	4043.8	2616.38	4355.58
8	4090.0	2623.27	4078.7	2624.40	5013.10
7	4125.0	2630.25	4113.7	2631.38	4271.00
6	4165.0	2639.61	4153.7	2640.74	4974.98
5	4215.0	2649.66	4203.7	2650.79	6049.77
4	4255.0	2656.27	4243.7	2657.41	4556.19
3	4305.1	2667.26	4293.8	2668.40	5408.73
2	4345.0	2674.64	4333.7	2675.78	5247.60
1	4374.5	2680.26	4363.2	2681.40	0.00

(1)Measured Depth is Cable Depth Referenced to Schlumberger Zero.
(2)TVD is referenced to SRD (5)
(3)Transit time with respect to SRD(5) corrected for Deviation.
(4)Interval Velocity corrected for Deviation.
(5)SRD is Seismic Reference Depth.



VSP PROCESSING

Data Corrected to SRD and TVD

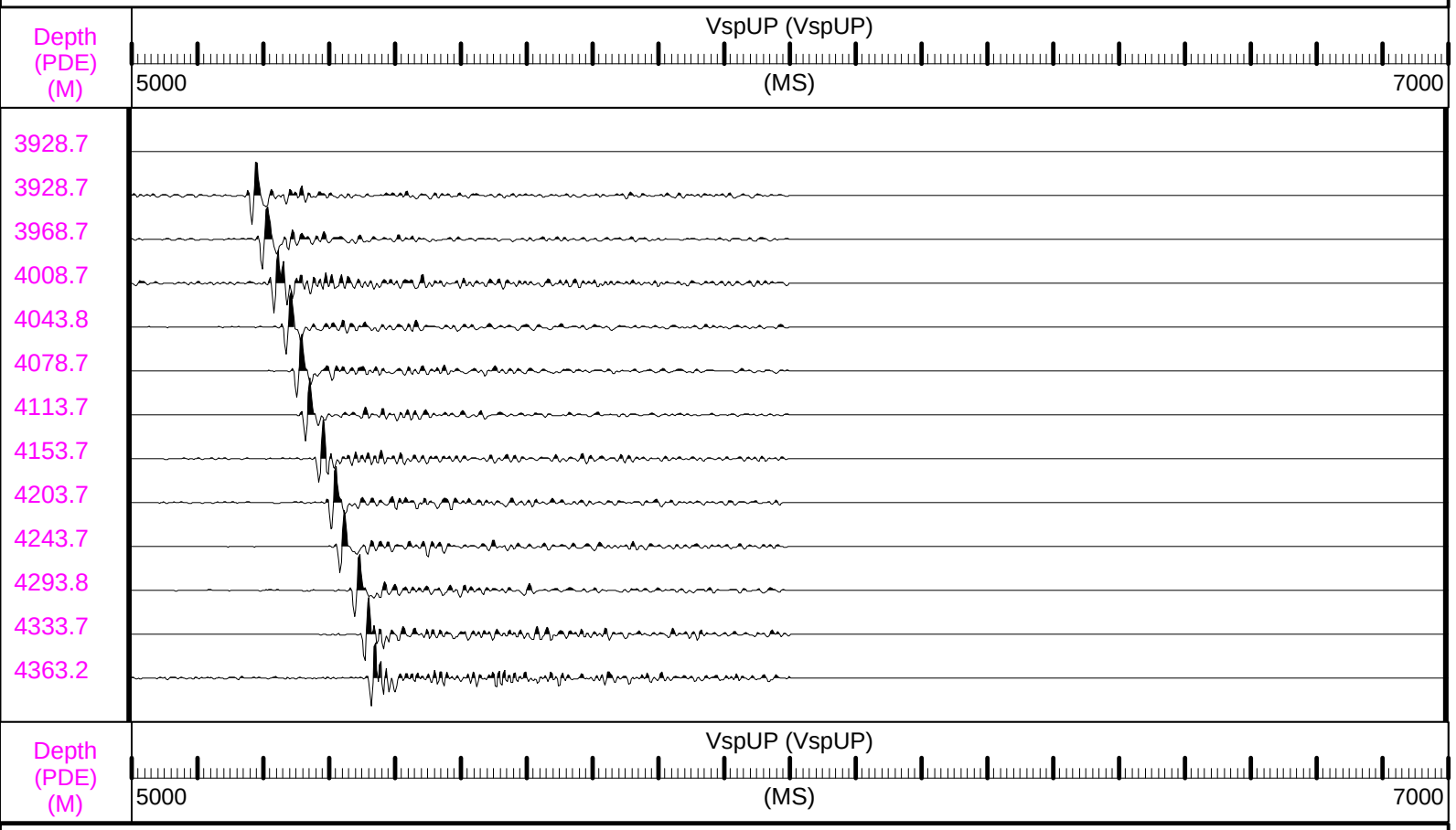
Input data filtered from 5 to 120 Hz

Two Way Time Scale Plot

SEG Reverse Polarity

TAR = DATA(I)*I**1.200

Z-AXIS Processed



Format: vspUP Vertical Scale: 0.25" per 1SAMPLES Graphics File Created: 01-Jan-2003 11:26

OP System Version: 10C0-306

MCM

WSTA-A 10C0-306

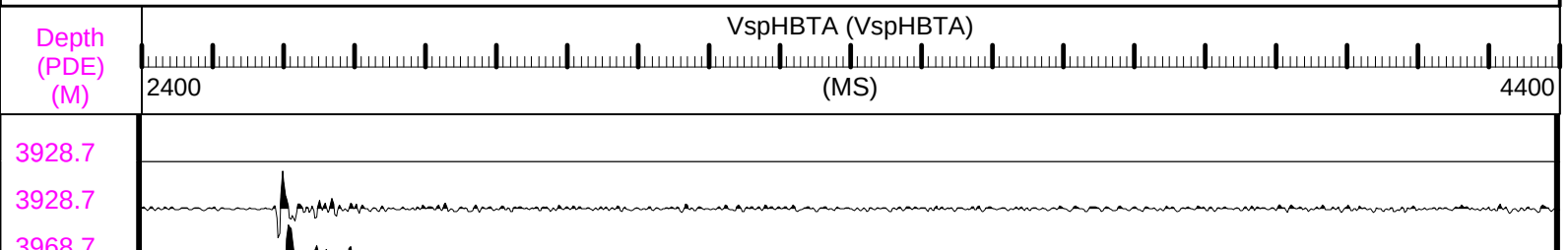
OP System Version: 10C0-306

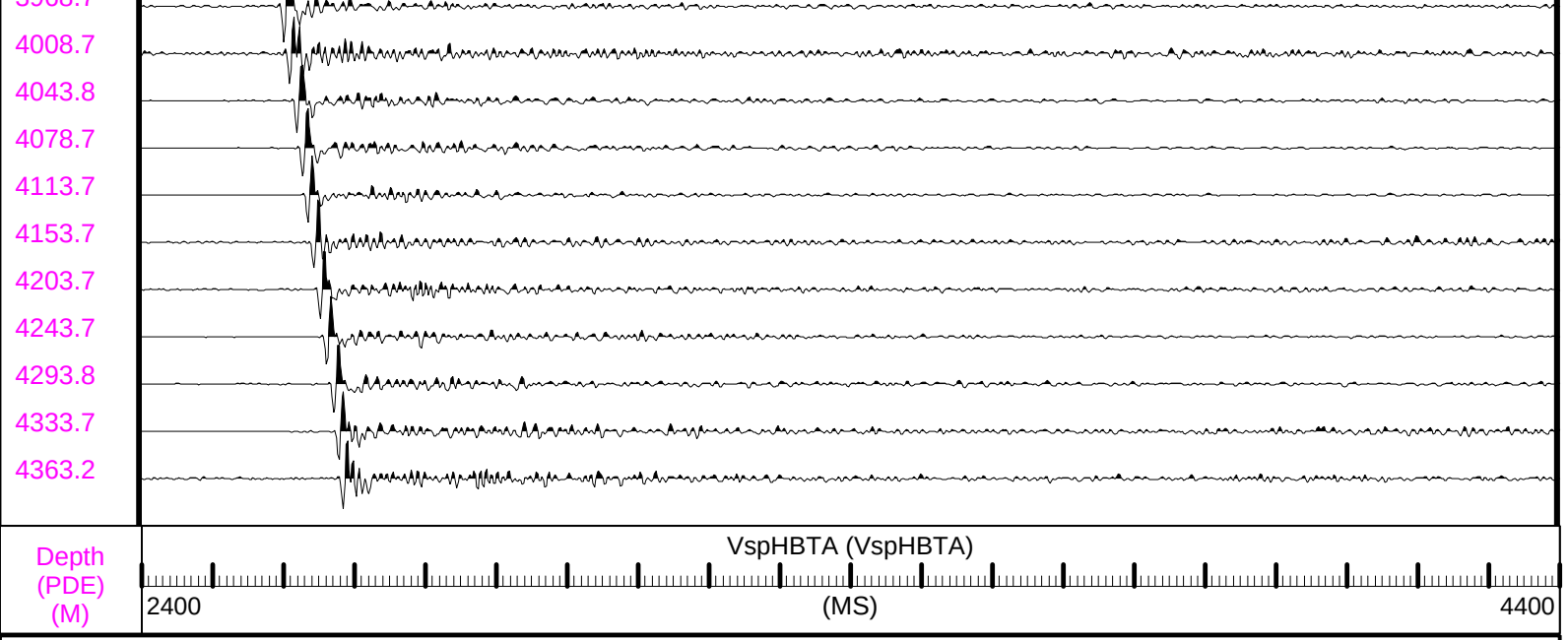
MCM

WSTA-A 10C0-306

VSP PROCESSING

Data Corrected to SRD and TVD
Input data filtered from 5 to 120 Hz
One Way Time Scale Plot
SEG Reverse Polarity
TAR = DATA(I)*I**1.200
Z-AXIS Processed





Format: vspHBTA Vertical Scale: 0.25" per 1SAMPLES Graphics File Created: 01-Jan-2003 11:24

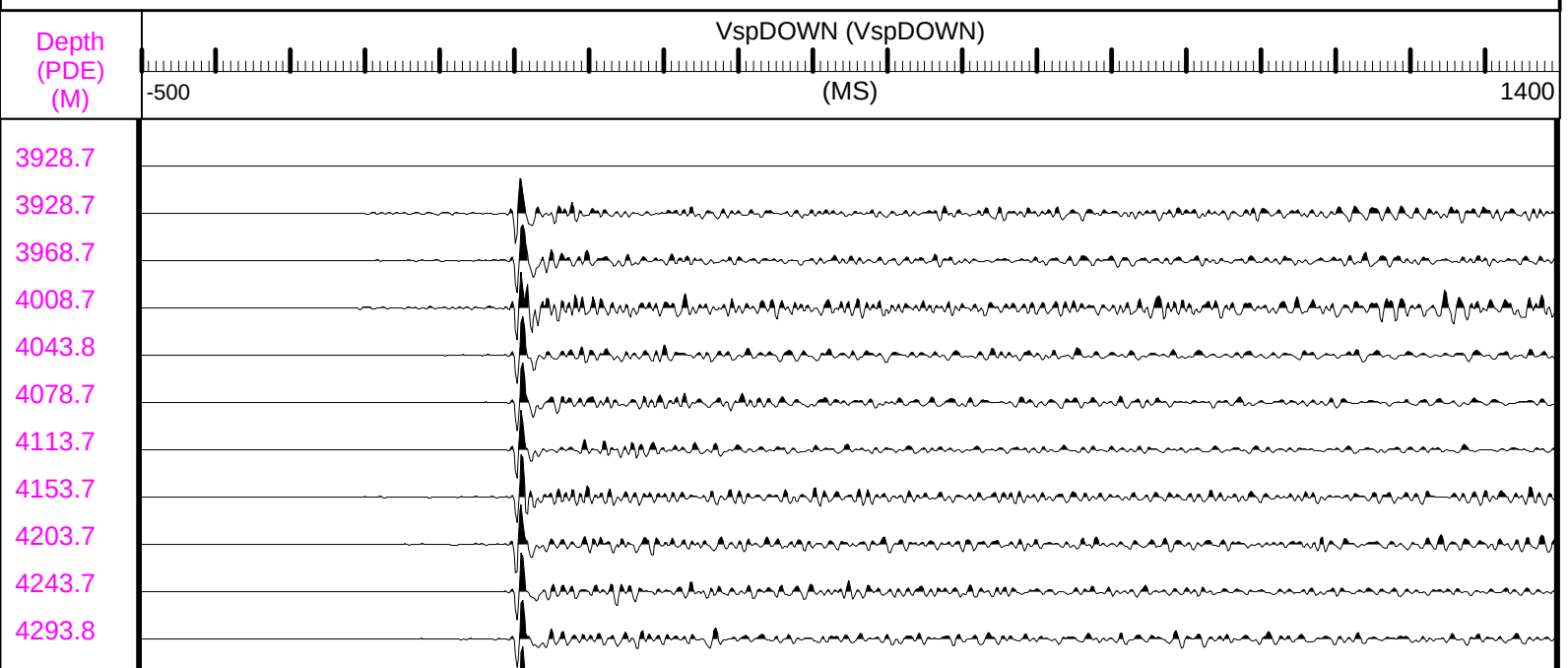
OP System Version: 10C0-306

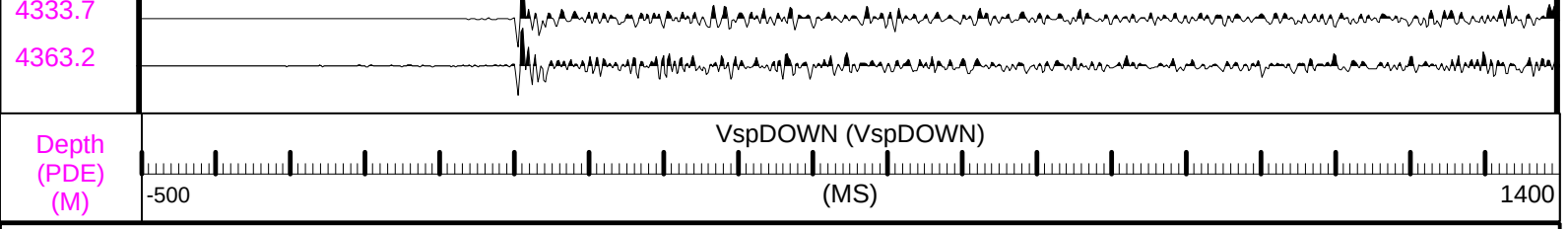
MCM

WSTA-A 10C0-306

VSP PROCESSING

Data Corrected to SRD and TVD
Input data filtered from 5 to 120 Hz
Arbitrary Origin Plot
SEG Reverse Polarity
TAR = DATA(I)*I**1.200
Z-AXIS Processed





Format: vspDOWN Vertical Scale: 0.25" per 1SAMPLES Graphics File Created: 01-Jan-2003 11:24

OP System Version: 10C0-306

MCM

WSTA-A 10C0-306

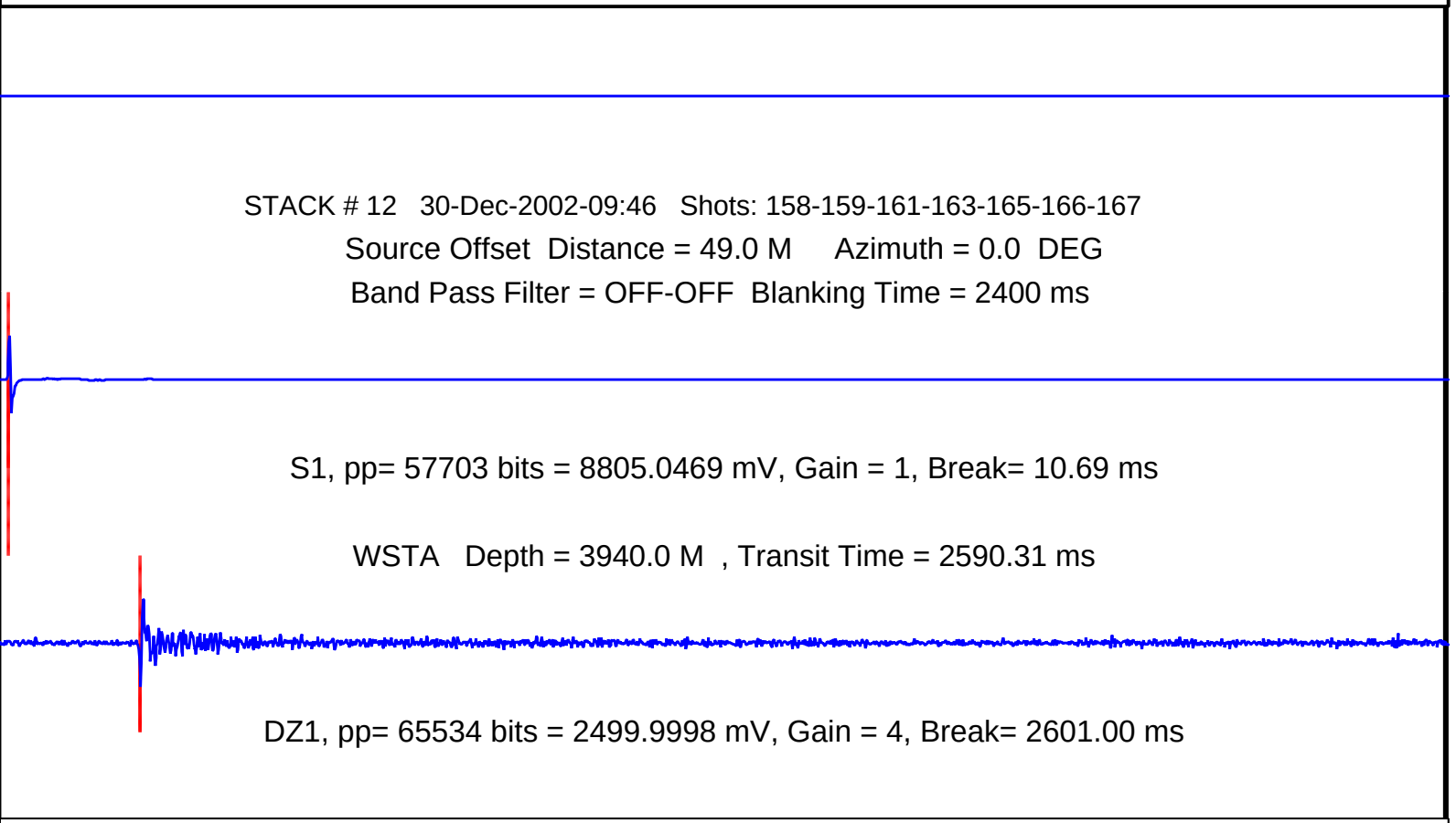
Output DLIS Files

DEFAULT SEIS_WSS_047LNP FN:59 PRODUCER 30-Dec-2002 07:05 0.0 M 0.4 M

OP System Version: 10C0-306

MCM

WSTA-A 10C0-306



STACK # 12 30-Dec-2002-09:46 Shots: 158-159-161-163-165-166-167

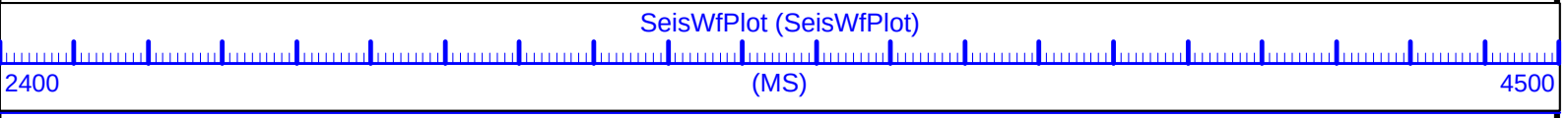
Source Offset Distance = 49.0 M Azimuth = 0.0 DEG

Band Pass Filter = OFF-OFF Blanking Time = 2400 ms

S1, pp= 57703 bits = 8805.0469 mV, Gain = 1, Break= 10.69 ms

WSTA Depth = 3940.0 M , Transit Time = 2590.31 ms

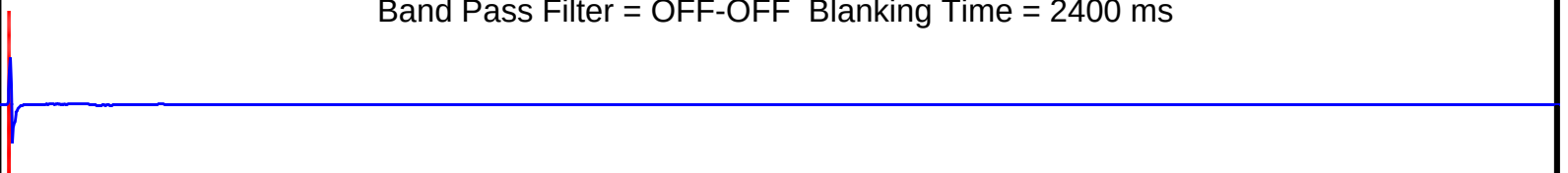
DZ1, pp= 65534 bits = 2499.9998 mV, Gain = 4, Break= 2601.00 ms



STACK # 11 30-Dec-2002-09:38 Shots: 151-152-153-154-155-156-157

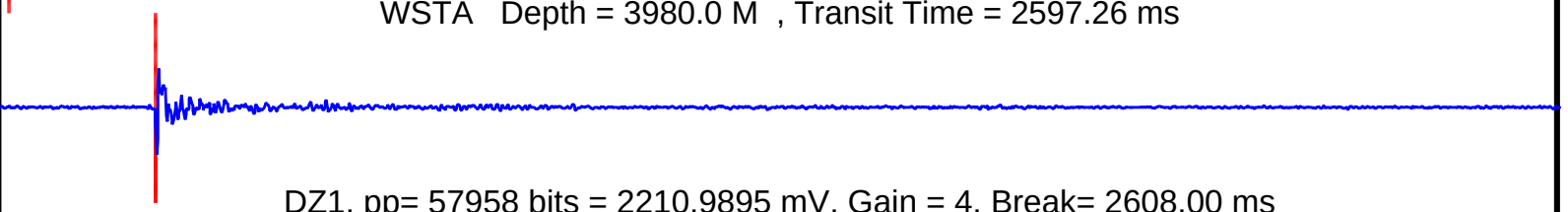
Source Offset Distance = 49.0 M Azimuth = 0.0 DEG

Band Pass Filter = OFF-OFF Blanking Time = 2400 ms



S1, pp= 59764 bits = 9119.5410 mV, Gain = 1, Break= 10.74 ms

WSTA Depth = 3980.0 M , Transit Time = 2597.26 ms



DZ1, pp= 57958 bits = 2210.9895 mV, Gain = 4, Break= 2608.00 ms

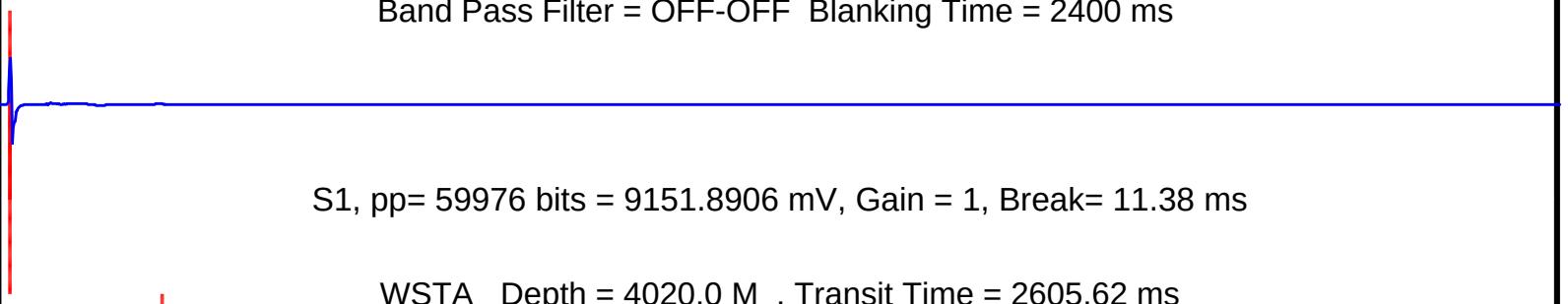
SeisWfPlot (SeisWfPlot)

2400 (MS) 4500

STACK # 10 30-Dec-2002-09:33 Shots: 140-141-142-145-146-147-148-149-150

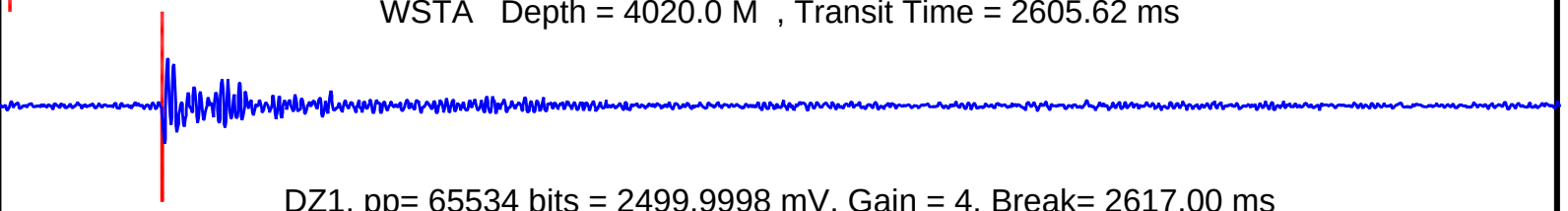
Source Offset Distance = 49.0 M Azimuth = 0.0 DEG

Band Pass Filter = OFF-OFF Blanking Time = 2400 ms



S1, pp= 59976 bits = 9151.8906 mV, Gain = 1, Break= 11.38 ms

WSTA Depth = 4020.0 M , Transit Time = 2605.62 ms



DZ1, pp= 65534 bits = 2499.9998 mV, Gain = 4, Break= 2617.00 ms

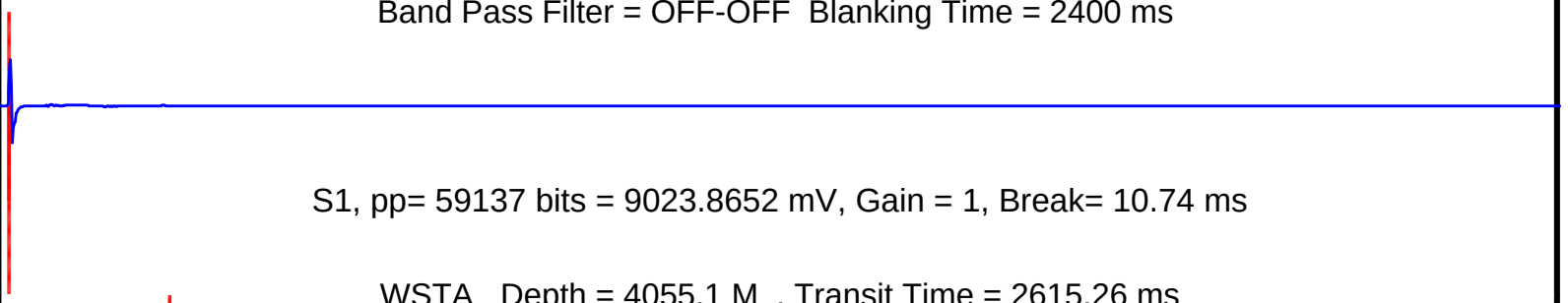
SeisWfPlot (SeisWfPlot)

2400 (MS) 4500

STACK # 9 30-Dec-2002-09:24 Shots: 132-133-134-135-136-137-138

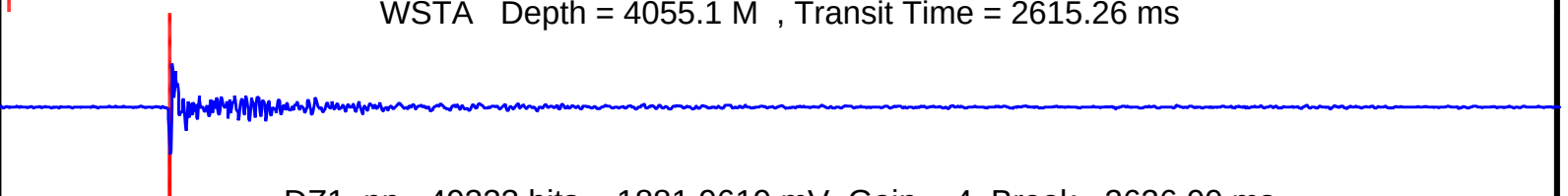
Source Offset Distance = 49.0 M Azimuth = 0.0 DEG

Band Pass Filter = OFF-OFF Blanking Time = 2400 ms



S1, pp= 59137 bits = 9023.8652 mV, Gain = 1, Break= 10.74 ms

WSTA Depth = 4055.1 M , Transit Time = 2615.26 ms



DZ1, pp= 49333 bits = 1881.9619 mV, Gain = 4, Break= 2626.00 ms

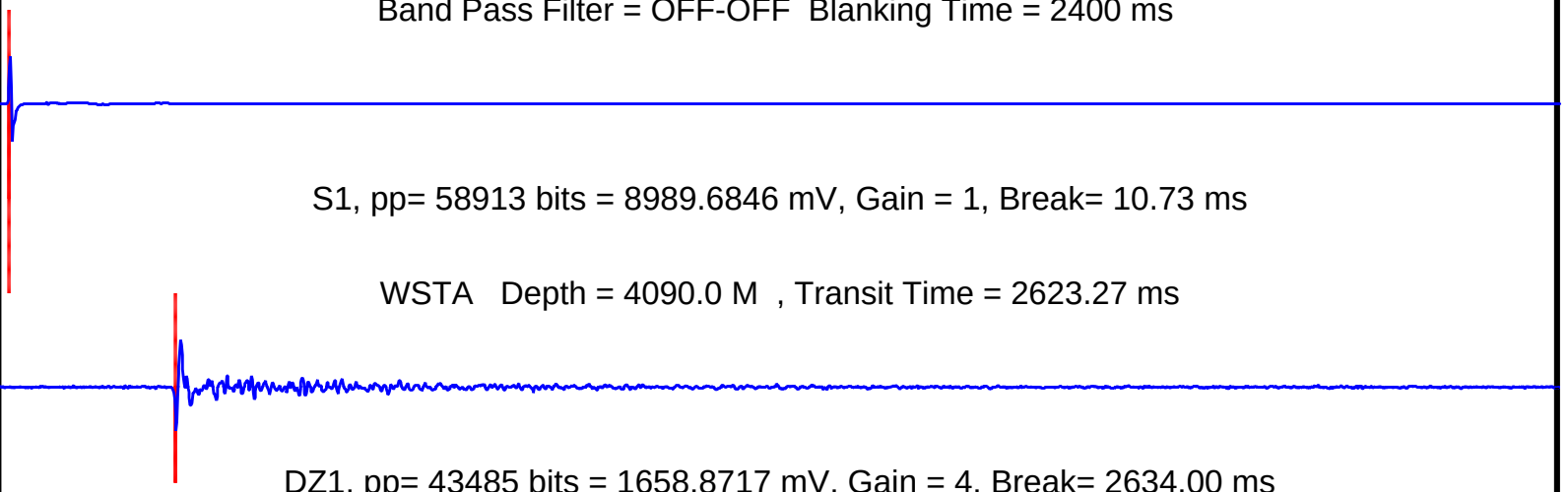
SeisWfPlot (SeisWfPlot)

2400 (MS) 4500

STACK # 8 30-Dec-2002-09:19 Shots: 125-126-127-128-129-130-131

Source Offset Distance = 49.0 M Azimuth = 0.0 DEG

Band Pass Filter = OFF-OFF Blanking Time = 2400 ms



S1, pp= 58913 bits = 8989.6846 mV, Gain = 1, Break= 10.73 ms

WSTA Depth = 4090.0 M , Transit Time = 2623.27 ms

DZ1, pp= 43485 bits = 1658.8717 mV, Gain = 4, Break= 2634.00 ms

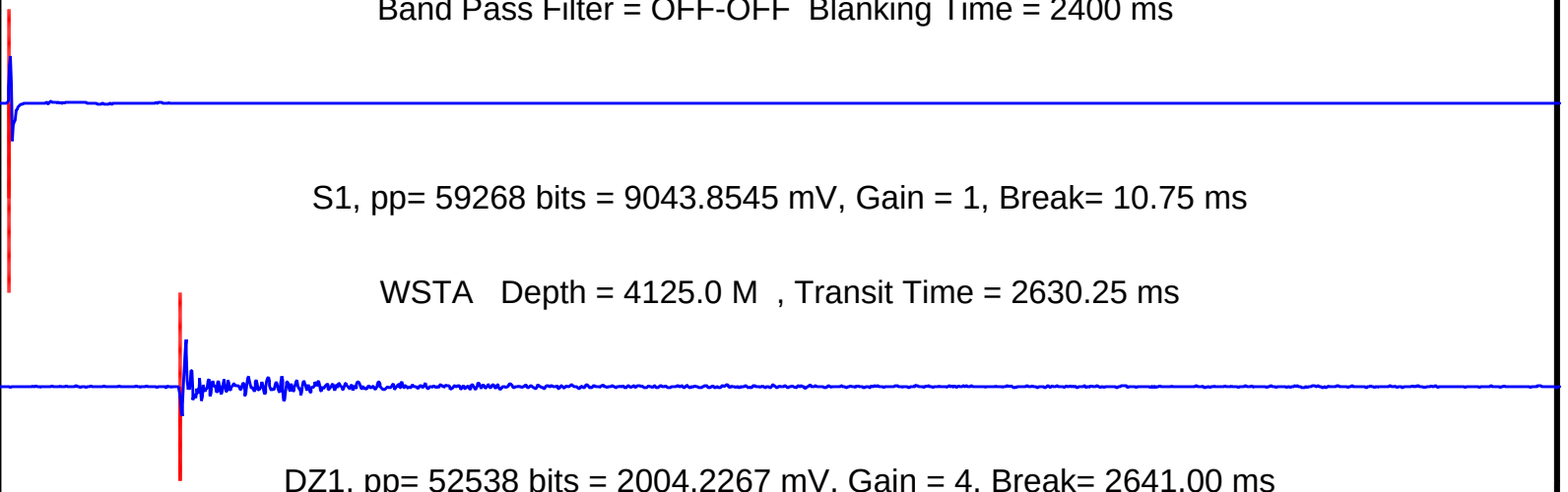
SeisWfPlot (SeisWfPlot)

2400 (MS) 4500

STACK # 7 30-Dec-2002-09:13 Shots: 117-118-120-121-122-123-124

Source Offset Distance = 49.0 M Azimuth = 0.0 DEG

Band Pass Filter = OFF-OFF Blanking Time = 2400 ms



S1, pp= 59268 bits = 9043.8545 mV, Gain = 1, Break= 10.75 ms

WSTA Depth = 4125.0 M , Transit Time = 2630.25 ms

DZ1, pp= 52538 bits = 2004.2267 mV, Gain = 4, Break= 2641.00 ms

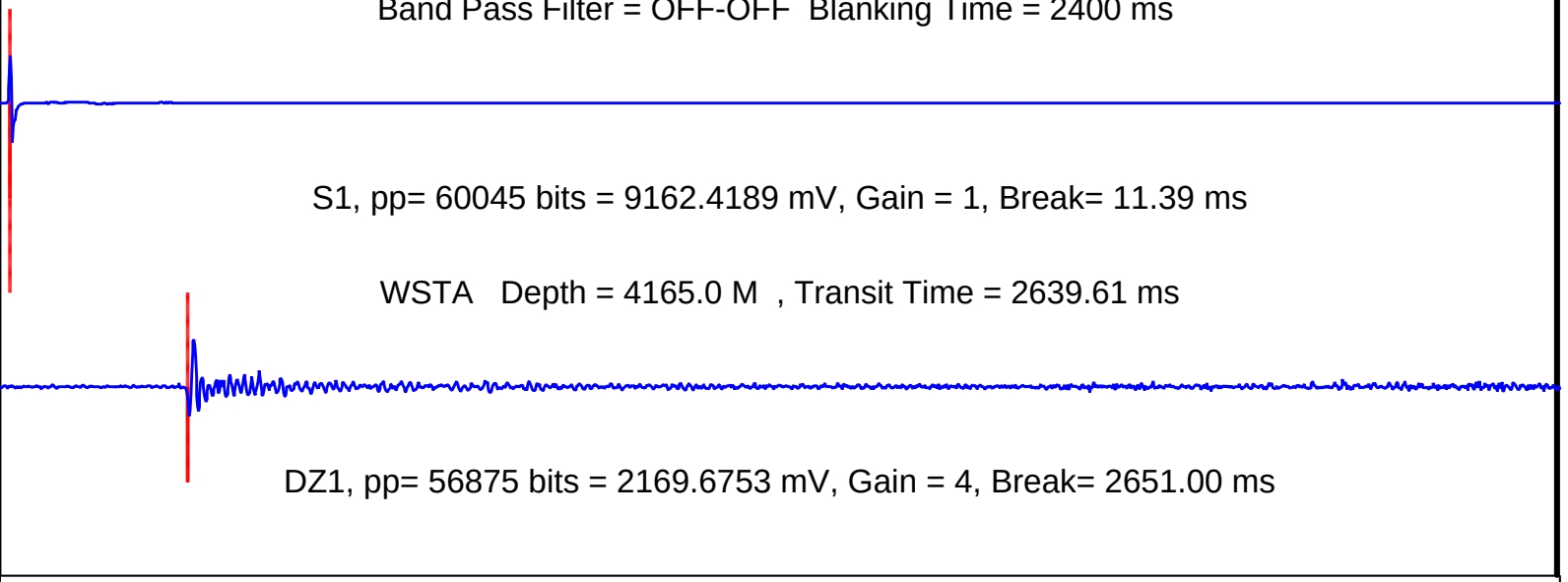
SeisWfPlot (SeisWfPlot)

2400 (MS) 4500

STACK # 6 30-Dec-2002-09:05 Shots: 108-109-110-111-112-113-114

Source Offset Distance = 49.0 M Azimuth = 0.0 DEG

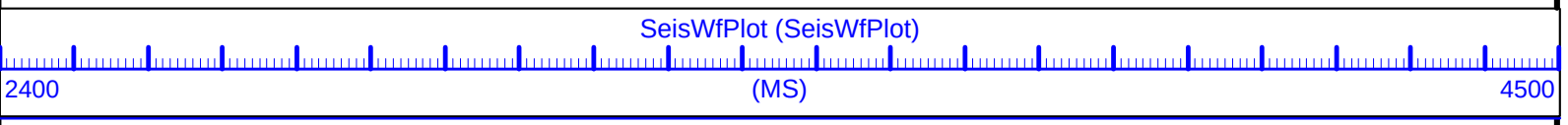
Band Pass Filter = OFF-OFF Blanking Time = 2400 ms



S1, pp= 60045 bits = 9162.4189 mV, Gain = 1, Break= 11.39 ms

WSTA Depth = 4165.0 M , Transit Time = 2639.61 ms

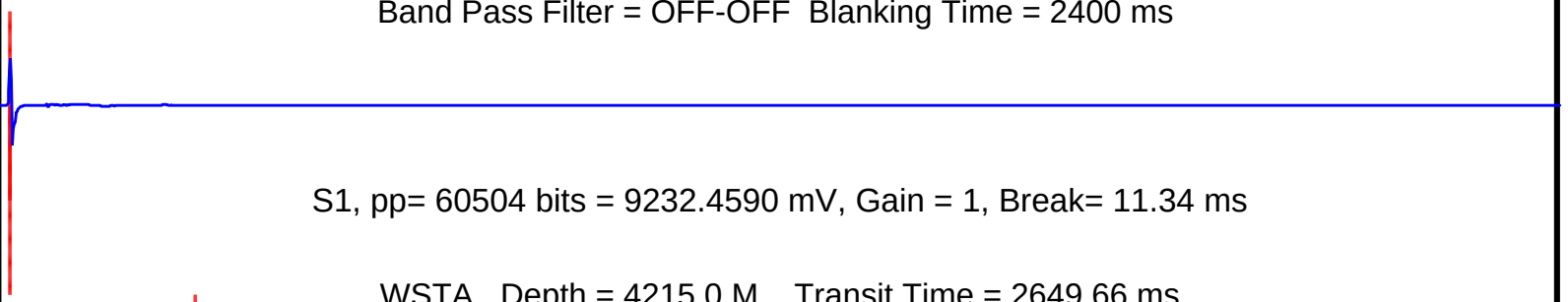
DZ1, pp= 56875 bits = 2169.6753 mV, Gain = 4, Break= 2651.00 ms



STACK # 5 30-Dec-2002-08:55 Shots: 98-99-100-101-102-103-104

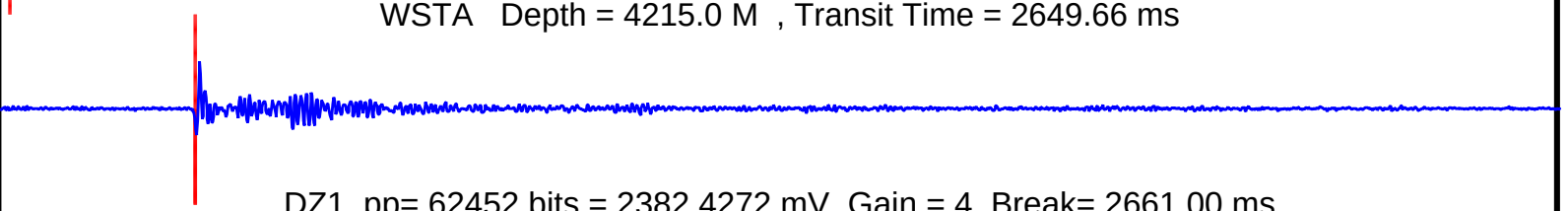
Source Offset Distance = 49.0 M Azimuth = 0.0 DEG

Band Pass Filter = OFF-OFF Blanking Time = 2400 ms

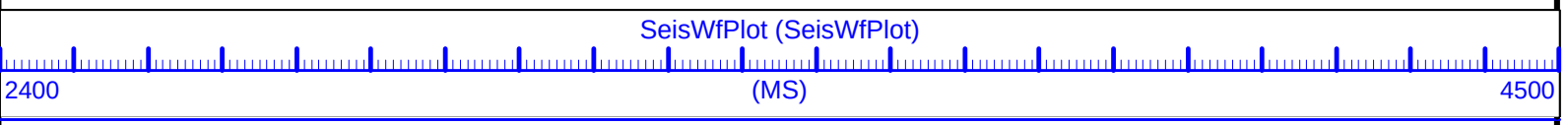


S1, pp= 60504 bits = 9232.4590 mV, Gain = 1, Break= 11.34 ms

WSTA Depth = 4215.0 M , Transit Time = 2649.66 ms



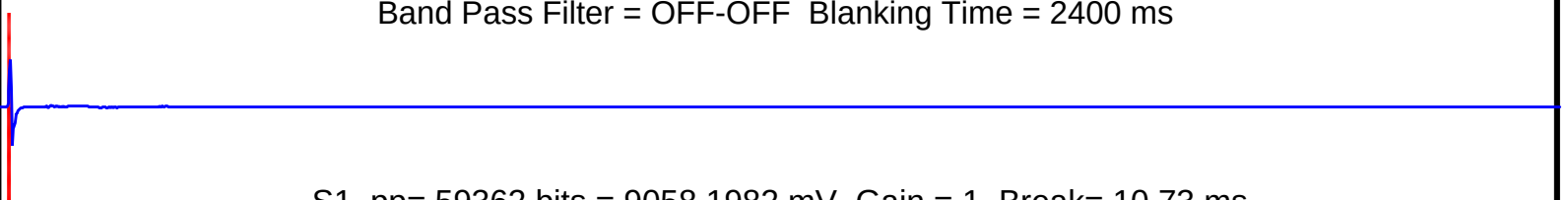
DZ1, pp= 62452 bits = 2382.4272 mV, Gain = 4, Break= 2661.00 ms



STACK # 4 30-Dec-2002-08:48 Shots: 89-90-91-92-93-94-95

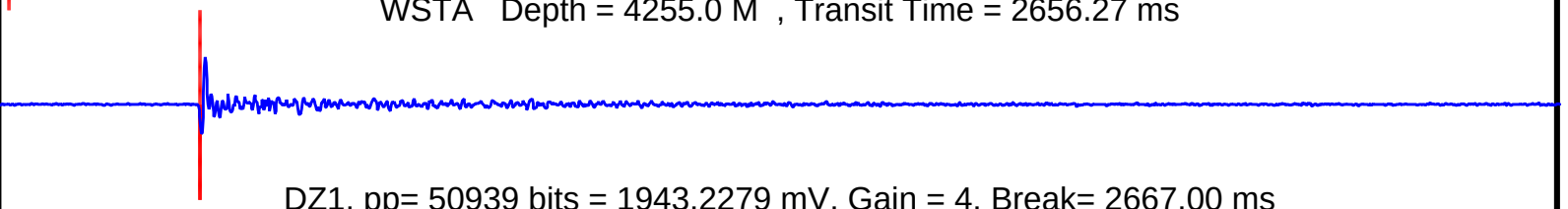
Source Offset Distance = 49.0 M Azimuth = 0.0 DEG

Band Pass Filter = OFF-OFF Blanking Time = 2400 ms



S1, pp= 59362 bits = 9058.1982 mV, Gain = 1, Break= 10.73 ms

WSTA Depth = 4255.0 M , Transit Time = 2656.27 ms



DZ1, pp= 50939 bits = 1943.2279 mV, Gain = 4, Break= 2667.00 ms

SeisWfPlot (SeisWfPlot)

2400 (MS) 4500

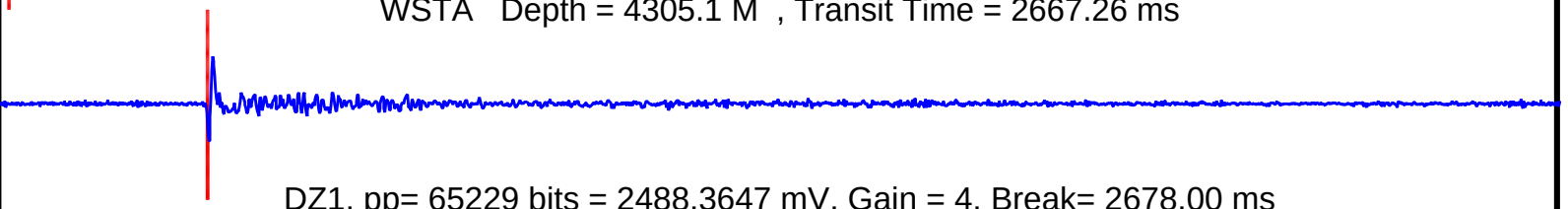
STACK # 3 30-Dec-2002-08:41 Shots: 78-80-81-84-85-87-88

Source Offset Distance = 49.0 M Azimuth = 0.0 DEG

Band Pass Filter = OFF-OFF Blanking Time = 2400 ms

S1, pp= 60620 bits = 9250.1602 mV, Gain = 1, Break= 10.74 ms

WSTA Depth = 4305.1 M , Transit Time = 2667.26 ms



DZ1, pp= 65229 bits = 2488.3647 mV, Gain = 4, Break= 2678.00 ms

SeisWfPlot (SeisWfPlot)

2400 (MS) 4500

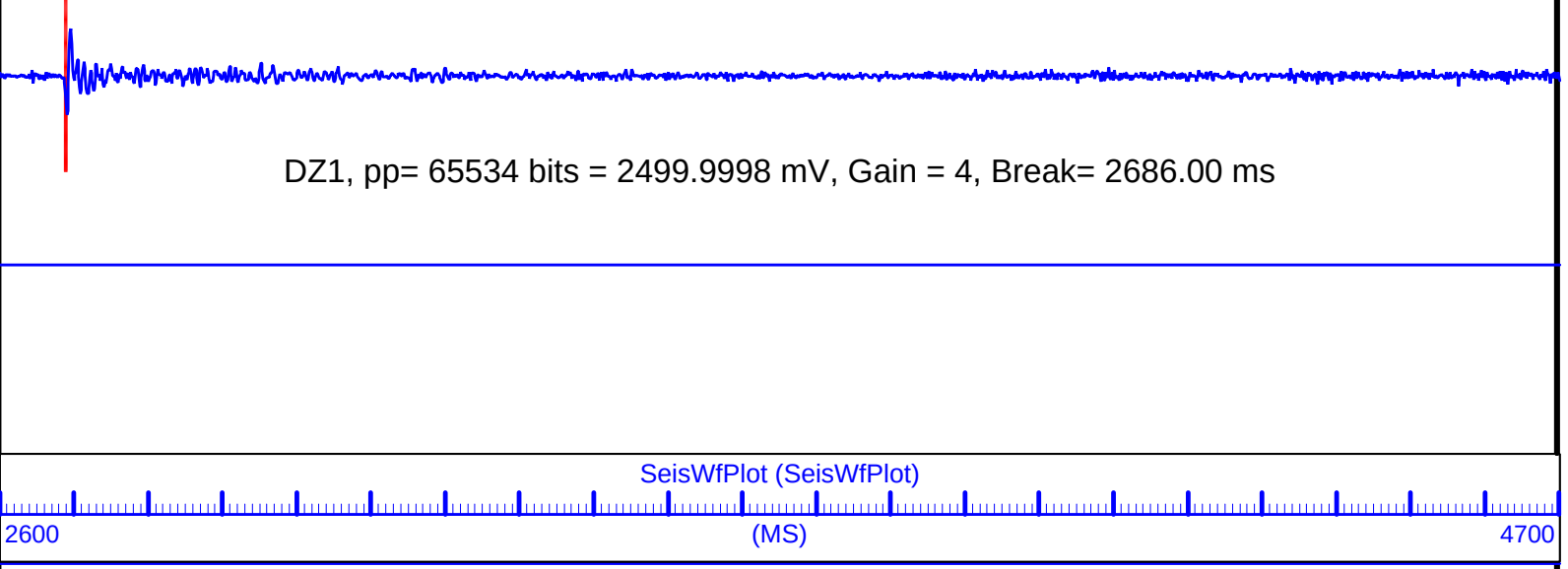
STACK # 2 30-Dec-2002-08:31 Shots: 69-72-73-74-75-76-77

Source Offset Distance = 49.0 M Azimuth = 0.0 DEG

Band Pass Filter = OFF-OFF Blanking Time = 2600 ms

S1, pp= 60565 bits = 9241.7676 mV, Gain = 1, Break= 11.36 ms

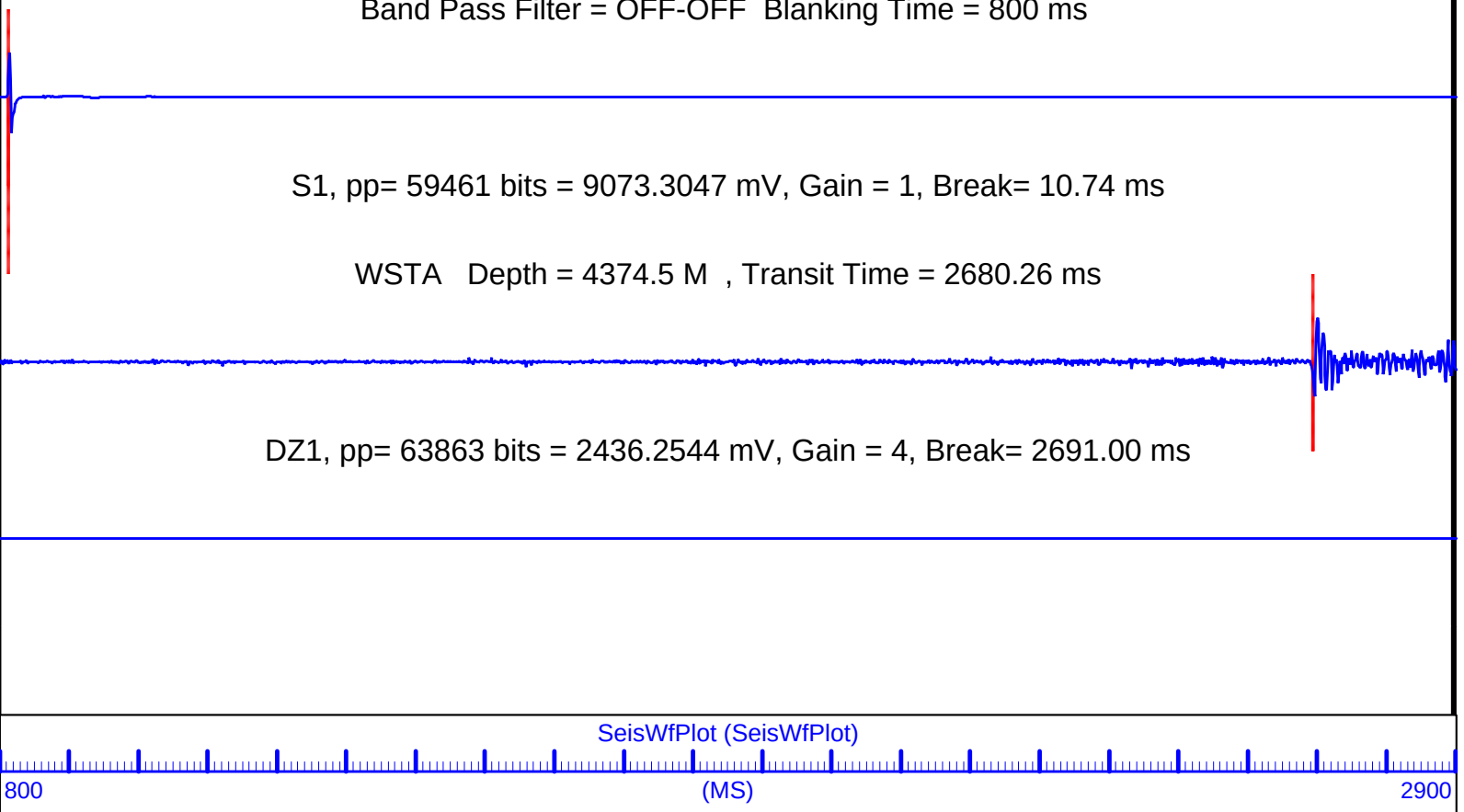
WSTA Depth = 4345.0 M , Transit Time = 2674.64 ms



STACK # 1 30-Dec-2002-08:22 Shots: 57-58-59-60-61-62-66

Source Offset Distance = 49.0 M Azimuth = 0.0 DEG

Band Pass Filter = OFF-OFF Blanking Time = 800 ms



Format: SeisAxisWfPlotCsat Vertical Scale: 0.5" per 1SAMPLES Graphics File Created: 30-Dec-2002 07:05

OP System Version: 10C0-306

MCM

WSTA-A	10C0-306

Output DLIS Files

DEFAULT	SEIS_WSS_047LNP	FN:59	PRODUCER	30-Dec-2002 07:05

Company: Lamont Doherty

Schlumberger

Well:	ODP Leg 206, Site 1256D
Field:	Fast Spreading Crust
Country:	Coata Rica
Ocean:	Pacific Ocean

WST LOG