



**DISCLAIMER**

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**OTHER SERVICES1**  
 OS1: WSTA  
 OS2:  
 OS3:  
 OS4:  
 OS5:

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

**REMARKS: RUN NUMBER 1**  
 Hole drilled with LWD.  
 All depths in Meters Below Rig Floor (MBRF).  
 Hole flushed with Sepiolite  
 Sea Floor Driller- 1066 MBRF.  
 Sea Floor Logger- 1064 MBRF.  
 Total Depth Driller- 1678 MBRF.  
 Total Depth Logger- 1574 MBRF.  
 Casing Bottom Driller- 1115 MBRF.  
 Casing Bottom Logger- 1111 MBRF.  
 Could not reach Total Depth.  
 Check-shot from 1565 to 1150 MBRF.  
 16 Stations.

**REMARKS: RUN NUMBER 2**

**RUN 1**  
 SERVICE ORDER #:  
 PROGRAM VERSION: 12C0-301  
 FLUID LEVEL:

**RUN 2**  
 SERVICE ORDER #:  
 PROGRAM VERSION:  
 FLUID LEVEL:

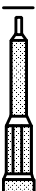
LOGGED INTERVAL	START	STOP

LOGGED INTERVAL	START	STOP

**EQUIPMENT DESCRIPTION**

**RUN 1**  
**SURFACE EQUIPMENT**  
 WSAM  
 OPTION  
 BGKT\_PANEL

**RUN 2**

**DOWNHOLE EQUIPMENT**  
 LEH-QT  
 LEH-QT  
  
 6.73

SAH-E  
SAH-E

5.84



WSTA-A  
WSTA\_SONDE  
OYO-GEOPHONES

4.98



WSTA Arm  
Tension

— TOOL ZERO

TOOL BOTTOM

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

Production String

(in)	(m)
OD	ID MD

Well Schematic

(m)	(in)
MD	OD ID

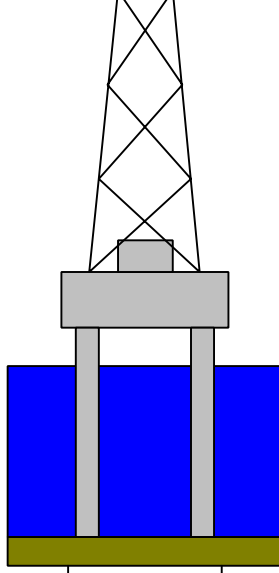
Casing String

Kelly Bushing Elevation

10.6

Mean Sea Level

0.0



0.0 5.500

Casing String



1064.6 9.875  
1115.6 5.500

Borehole Segment  
Casing Shoe

1678.0 9.875

Borehole Segment Bottom

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 12.6 M  
 Hydrophone Depth From Schlumberger Zero 12.6 M  
 SRD Depth From Schlumberger Zero 10.6 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)
16	1149.9	759.84	1139.3	1520.90	1582.64
15	1177.0	776.95	1166.4	1555.15	1602.26

15	1177.0	776.95	1166.4	1555.15	1602.26
14	1220.0	803.76	1209.4	1608.82	1654.27
13	1250.0	821.88	1239.4	1645.09	1689.34
12	1275.5	836.96	1264.9	1675.28	1642.15
11	1300.0	851.87	1289.4	1705.12	1596.43
10	1325.0	867.51	1314.4	1736.44	1645.45
9	1350.0	882.69	1339.4	1766.83	1702.81
8	1375.1	897.42	1364.5	1796.31	1708.40
7	1400.0	911.99	1389.4	1825.46	1688.26
6	1425.1	926.84	1414.5	1855.19	1777.93
5	1449.9	940.78	1439.3	1883.09	1802.80
4	1495.0	965.78	1484.4	1933.12	1827.46
3	1520.0	979.45	1509.4	1960.49	1832.37
2	1544.9	993.03	1534.3	1987.66	1851.97
1	1565.0	1003.87	1554.4	2009.37	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 12.6 M  
Hydrophone Depth From Schlumberger Zero 12.6 M  
SRD Depth From Schlumberger Zero 10.6 M

#### Other VSP constants:

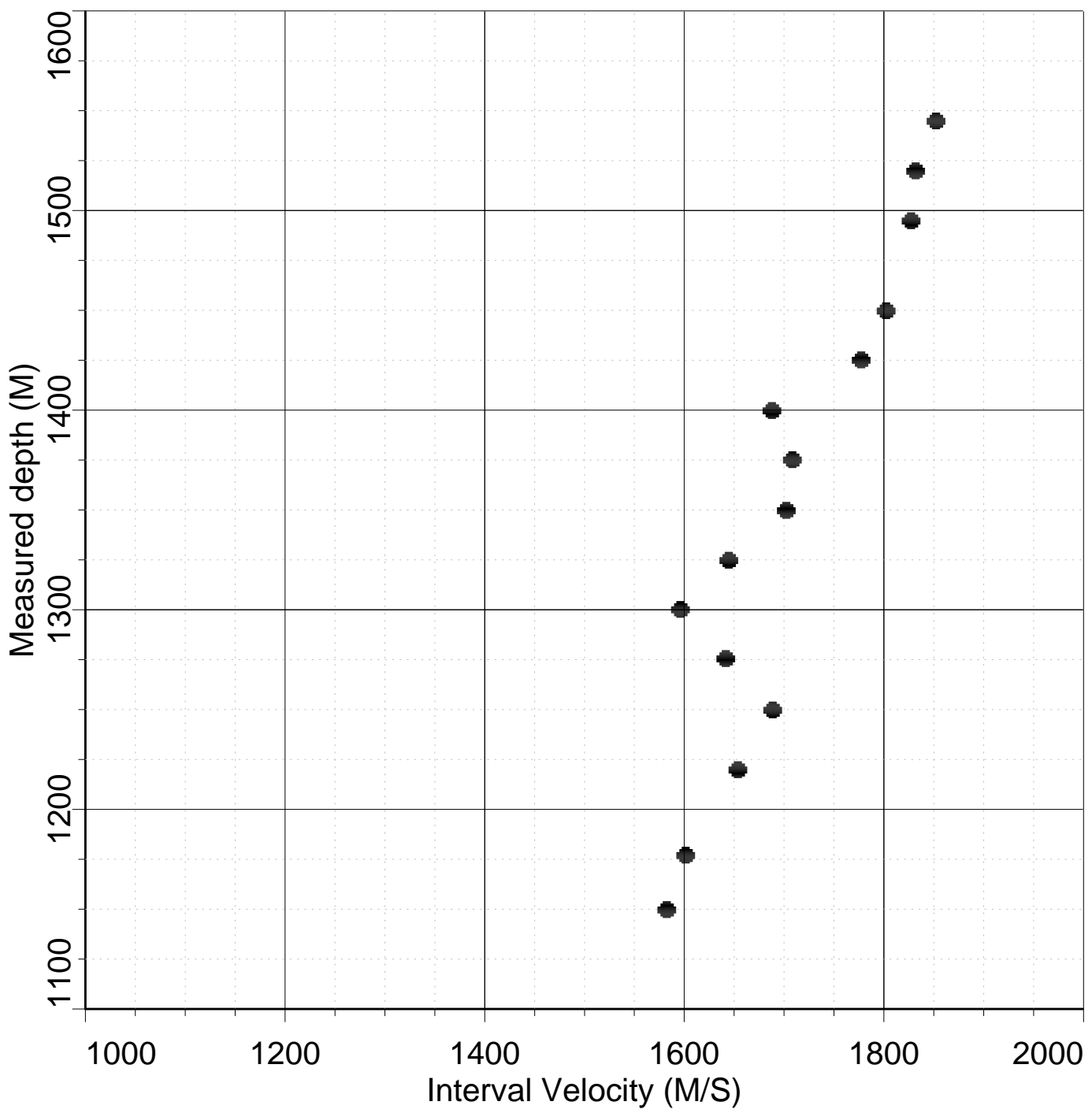
True Vertical Time Correction YES  
Surface Velocity 1524.00 M/S

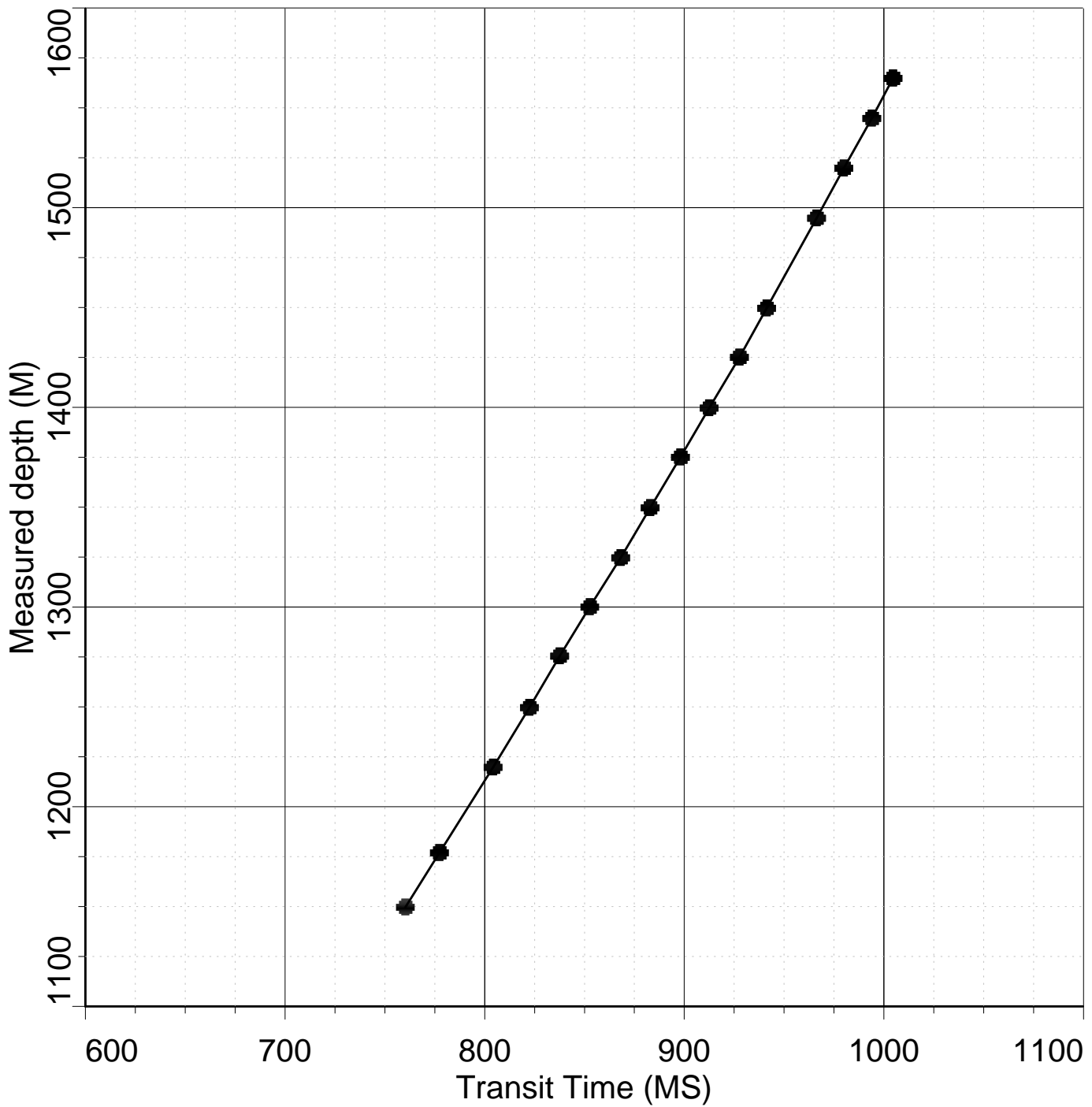
Stack number	Measured Depth (1) (M)	Measured Trans Time (2) (MS)	True Vert. Depth from (3) (M)	Corrected Trans Time (4) (MS)	Interval Velocity (5) (M/S)
--------------	---------------------------	---------------------------------	----------------------------------	----------------------------------	--------------------------------

16	1149.9	759.84	1139.3	760.45	1582.64
15	1177.0	776.95	1166.4	777.57	1602.26
14	1220.0	803.76	1209.4	804.41	1654.27
13	1250.0	821.88	1239.4	822.55	1689.34
12	1275.5	836.96	1264.9	837.64	1642.15
11	1300.0	851.87	1289.4	852.56	1596.43
10	1325.0	867.51	1314.4	868.22	1645.45
9	1350.0	882.69	1339.4	883.41	1702.81
8	1375.1	897.42	1364.5	898.15	1708.40
7	1400.0	911.99	1389.4	912.73	1688.26
6	1425.1	926.84	1414.5	927.60	1777.93

5	1449.9	940.78	1439.3	941.54	1802.80
4	1495.0	965.78	1484.4	966.56	1827.46
3	1520.0	979.45	1509.4	980.24	1832.37
2	1544.9	993.03	1534.3	993.83	1851.97
1	1565.0	1003.87	1554.4	1004.68	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.





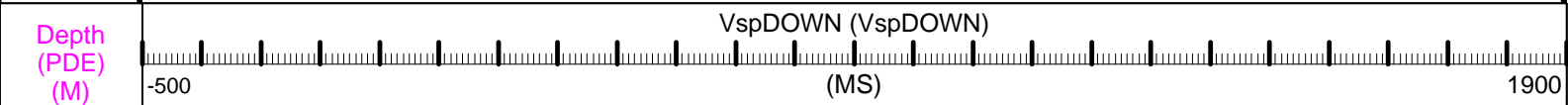
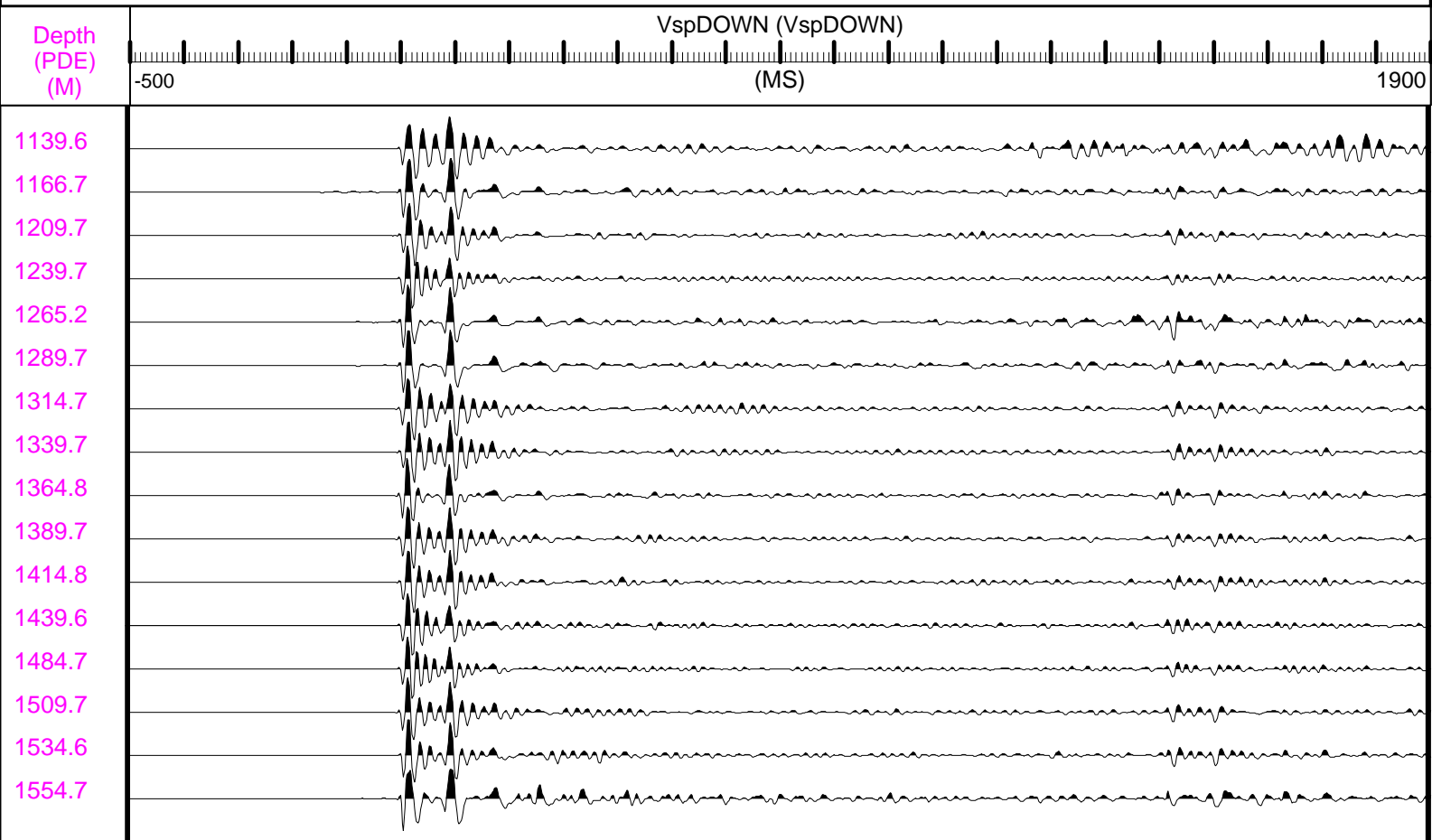
### Output DLIS Files

DEFAULT SEIS\_WSS\_023LNP FN:23 PRODUCER 20-Jun-2005 09:35 0.0 M 0.4 M

### 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)\*\*1.200  
Z-AXIS Processed





Format: vspDOWN Vertical Scale: 0.25" per 1SAMPLES Graphics File Created: 20-Jun-2005 09:35

OP System Version: 12C0-301  
MCM

WSTA-A 12C0-301

Output DLIS Files

DEFAULT SEIS\_WSS\_023LNP FN:23 PRODUCER 20-Jun-2005 09:35

Output DLIS Files

DEFAULT SEIS\_WSS\_023LNP FN:23 PRODUCER 20-Jun-2005 09:35 0.0 M 0.4 M

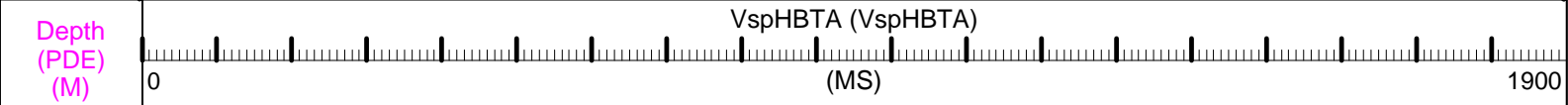
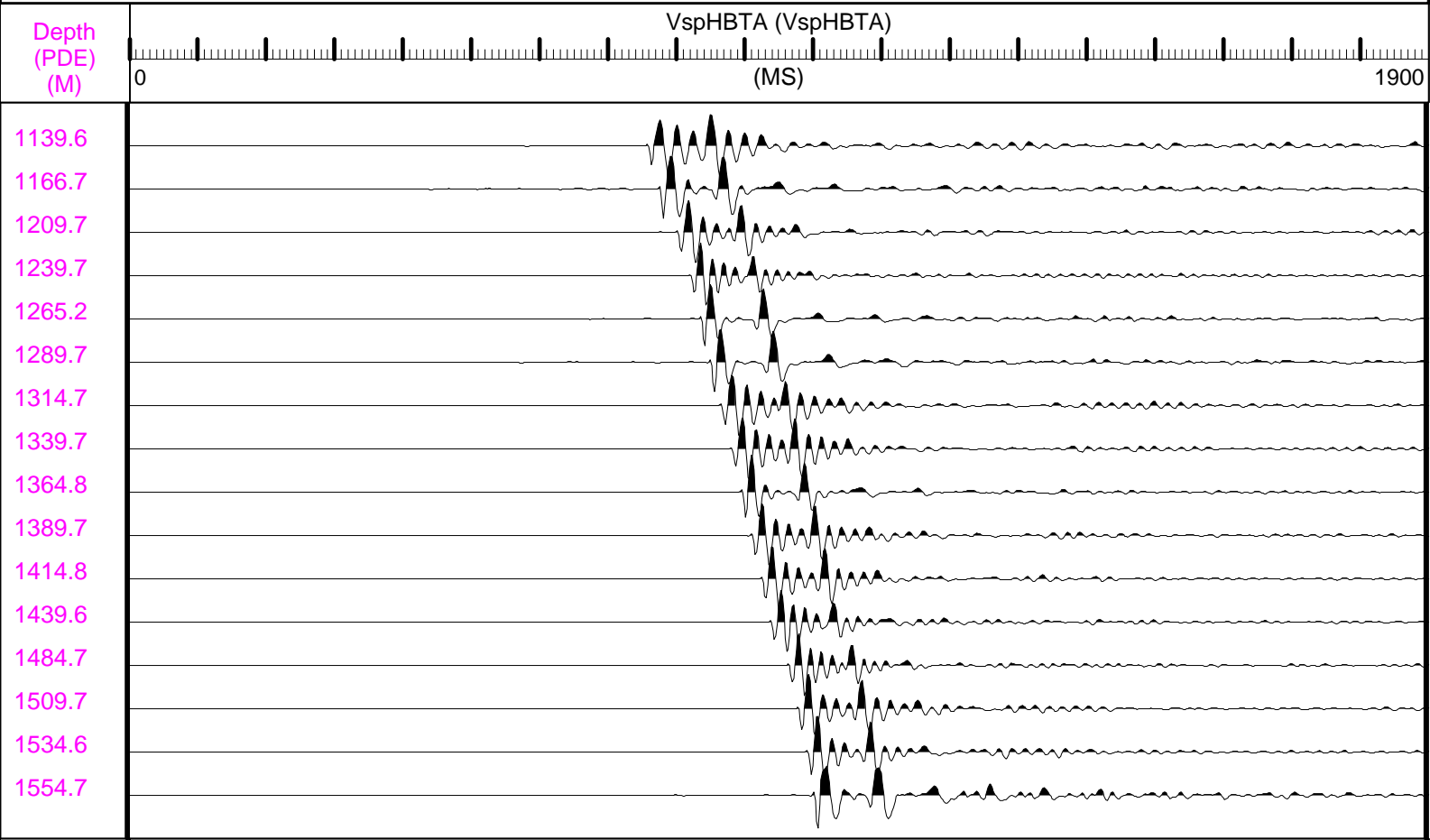
OP System Version: 12C0-301  
MCM

WSTA-A 12C0-301

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: 20-Jun-2005 09:35

OP System Version: 12C0-301  
 MCM  
 WSTA-A 12C0-301

Output DLIS Files  
 DEFAULT SEIS\_WSS\_023LNP FN:23 PRODUCER 20-Jun-2005 09:35

Output DLIS Files  
 DEFAULT SEIS\_WSS\_023LNP FN:23 PRODUCER 20-Jun-2005 09:35 0.0 M 0.4 M

OP System Version: 12C0-301  
 MCM  
 WSTA-A 12C0-301

STACK # 16 20-Jun-2005-11:36 Shots: 155-156-158-162-164

Band Pass Filter = OFF-OFF Blanking Time = 200 ms

S1, pp= 52206 bits = 7966.2461 mV, Gain = 1, Break= 12.59 ms

WSTA Depth = 1149.9 M , Transit Time = 759.84 ms

DZ1, pp= 48464 bits = 7395.2446 mV, Gain = 1, Break= 772.43 ms

SeisWfPlot (SeisWfPlot)

200

(MS)

1700

STACK # 15 20-Jun-2005-11:30 Shots: 148-149-150-151-152

Band Pass Filter = OFF-OFF Blanking Time = 200 ms

S1, pp= 53087 bits = 8100.6802 mV, Gain = 1, Break= 12.59 ms

WSTA Depth = 1177.0 M , Transit Time = 776.95 ms

DZ1, pp= 44103 bits = 6729.7886 mV, Gain = 1, Break= 789.54 ms

SeisWfPlot (SeisWfPlot)

200

(MS)

1700

STACK # 14 20-Jun-2005-11:26 Shots: 143-144-145-146-147

Band Pass Filter = OFF-OFF Blanking Time = 200 ms

S1, pp= 52856 bits = 8065.4312 mV, Gain = 1, Break= 11.72 ms

WSTA Depth = 1220.0 M , Transit Time = 803.76 ms

DZ1, pp= 42673 bits = 6511.5815 mV, Gain = 1, Break= 815.48 ms

SeisWfPlot (SeisWfPlot)

200

(MS)

1700

STACK # 13 20-Jun-2005-11:20 Shots: 135-136-138-139-142

Band Pass Filter = OFF-OFF Blanking Time = 200 ms

S1, pp= 52293 bits = 7979.5215 mV, Gain = 1, Break= 12.51 ms

WSTA Depth = 1250.0 M , Transit Time = 821.88 ms

DZ1, pp= 57115 bits = 8715.3232 mV, Gain = 1, Break= 834.39 ms

SeisWfPlot (SeisWfPlot)

200

(MS)

1700

STACK # 12 20-Jun-2005-11:15 Shots: 129-130-131-133-134

Band Pass Filter = OFF-OFF Blanking Time = 200 ms

S1, pp= 52641 bits = 8032.6240 mV, Gain = 1, Break= 12.57 ms

WSTA Depth = 1275.5 M , Transit Time = 836.96 ms

DZ1, pp= 40857 bits = 6234.4736 mV, Gain = 1, Break= 849.53 ms

SeisWfPlot (SeisWfPlot)

200

(MS)

1700

STACK # 11 20-Jun-2005-11:11 Shots: 122-123-124-126-128

Band Pass Filter = OFF-OFF Blanking Time = 200 ms

S1, pp= 51753 bits = 7897.1216 mV, Gain = 1, Break= 11.71 ms

WSTA Depth = 1300.0 M , Transit Time = 851.87 ms

DZ1, pp= 38557 bits = 5883.5107 mV, Gain = 1, Break= 863.58 ms

SeisWfPlot (SeisWfPlot)

200

(MS)

1700

STACK # 10 20-Jun-2005-11:06 Shots: 115-116-117-118-119-120-121

Band Pass Filter = OFF-OFF Blanking Time = 200 ms

S1, pp= 51990 bits = 7933.2861 mV, Gain = 1, Break= 12.55 ms

WSTA Depth = 1325.0 M , Transit Time = 867.51 ms

DZ1, pp= 43694 bits = 6667.3784 mV, Gain = 1, Break= 880.06 ms

SeisWfPlot (SeisWfPlot)

200

(MS)

1700

STACK # 9 20-Jun-2005-11:02 Shots: 100-102-103-104-105-106-107-110-112

Band Pass Filter = OFF-OFF Blanking Time = 200 ms

S1, pp= 53575 bits = 8175.1455 mV, Gain = 1, Break= 12.61 ms

WSTA Depth = 1350.0 M , Transit Time = 882.69 ms

DZ1, pp= 42943 bits = 6552.7813 mV, Gain = 1, Break= 895.30 ms

SeisWfPlot (SeisWfPlot)

200

(MS)

1700

STACK # 8 20-Jun-2005-10:53 Shots: 88-90-92-93-94-95-96-97-98

Band Pass Filter = OFF-OFF Blanking Time = 200 ms

S1, pp= 52471 bits = 8006.6831 mV, Gain = 1, Break= 12.58 ms

WSTA Depth = 1375.1 M , Transit Time = 897.42 ms

DZ1, pp= 41421 bits = 6320.5356 mV, Gain = 1, Break= 910.00 ms

SeisWfPlot (SeisWfPlot)

200

(MS)

1700

STACK # 7 20-Jun-2005-10:46 Shots: 77-78-79-80-81-82-83-84-85

Band Pass Filter = OFF-OFF Blanking Time = 200 ms

S1, pp= 51907 bits = 7920.6211 mV, Gain = 1, Break= 12.56 ms

WSTA Depth = 1400.0 M , Transit Time = 911.99 ms

DZ1, pp= 38240 bits = 5835.1387 mV, Gain = 1, Break= 924.55 ms

SeisWfPlot (SeisWfPlot)

STACK # 6 20-Jun-2005-10:40 Shots: 68-69-70-71-72-73-74-75-76

Band Pass Filter = OFF-OFF Blanking Time = 200 ms

S1, pp= 51813 bits = 7906.2773 mV, Gain = 1, Break= 12.54 ms

WSTA Depth = 1425.1 M , Transit Time = 926.84 ms

DZ1, pp= 39036 bits = 5956.6025 mV, Gain = 1, Break= 939.38 ms

SeisWfPlot (SeisWfPlot)

200

(MS)

1700

STACK # 5 20-Jun-2005-10:32 Shots: 58-59-60-61-63-64-65-66-67

Band Pass Filter = OFF-OFF Blanking Time = 200 ms

S1, pp= 52451 bits = 8003.6313 mV, Gain = 1, Break= 11.72 ms

WSTA Depth = 1449.9 M , Transit Time = 940.78 ms

DZ1, pp= 39210 bits = 5983.1533 mV, Gain = 1, Break= 952.50 ms

SeisWfPlot (SeisWfPlot)

200

(MS)

1700

STACK # 4 20-Jun-2005-10:25 Shots: 47-49-50-52-53-54-55-56-57

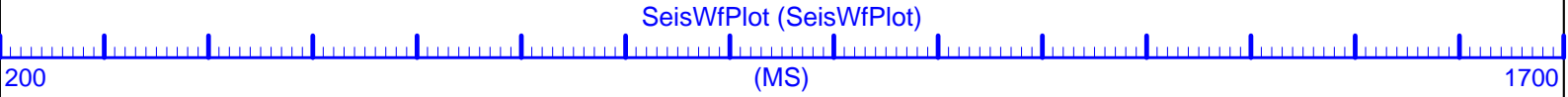
Band Pass Filter = OFF-OFF Blanking Time = 200 ms

S1, pp= 52528 bits = 7719.1958 mV, Gain = 1, Break= 12.54 ms

S1, pp= 50528 bits = 7710.1958 mV, Gain = 1, Break= 12.54 ms

WSTA Depth = 1495.0 M , Transit Time = 965.78 ms

DZ1, pp= 40531 bits = 6184.7280 mV, Gain = 1, Break= 978.31 ms



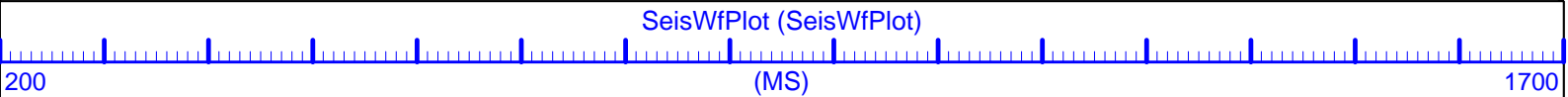
STACK # 3 20-Jun-2005-10:15 Shots: 40-41-42-43-44-45-46

Band Pass Filter = OFF-OFF Blanking Time = 200 ms

S1, pp= 52735 bits = 8046.9678 mV, Gain = 1, Break= 12.56 ms

WSTA Depth = 1520.0 M , Transit Time = 979.45 ms

DZ1, pp= 37609 bits = 5738.8530 mV, Gain = 1, Break= 992.00 ms



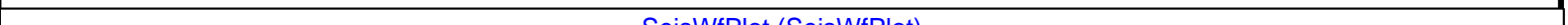
STACK # 2 20-Jun-2005-10:03 Shots: 19-20-21-23-25-26-28-29-31

Band Pass Filter = OFF-OFF Blanking Time = 200 ms

S1, pp= 53628 bits = 8183.2329 mV, Gain = 1, Break= 12.57 ms

WSTA Depth = 1544.9 M , Transit Time = 993.03 ms

DZ1, pp= 35213 bits = 5373.2412 mV, Gain = 1, Break= 1005.60 ms





200

(MS)

1700

STACK # 1 20-Jun-2005-09:54 Shots: 7-9-10-11-12-13-14-15-17  
Band Pass Filter = OFF-OFF Blanking Time = 200 ms

S1, pp= 52582 bits = 8023.6211 mV, Gain = 1, Break= 11.71 ms

WSTA Depth = 1565.0 M , Transit Time = 1003.87 ms

DZ1, pp= 26529 bits = 4048.1274 mV, Gain = 1, Break= 1015.58 ms

200

(MS)

1700

Format: SeisAxisWfPlotSat Vertical Scale: 0.5" per 1SAMPLES Graphics File Created: 20-Jun-2005 09:35

OP System Version: 12C0-301  
MCM

WSTA-A 12C0-301

Output DLIS Files

DEFAULT SEIS\_WSS\_023LNP FN:23 PRODUCER 20-Jun-2005 09:35

Company: Lamont Doherty



Well: IODP EXP 308 Site U1324A

Field: URSA Basin

Country: USA

Ocean: Gulf Of Mexico

WSTA