

Schlumberger

Company: **Lamont Doherty**

Well: **Expedition 339, Site U1389GC-11A**

Field: **Mediterranean Outflow (Portugal)**

Rig: **JOIDES Resolution Ocean: Atlantic**

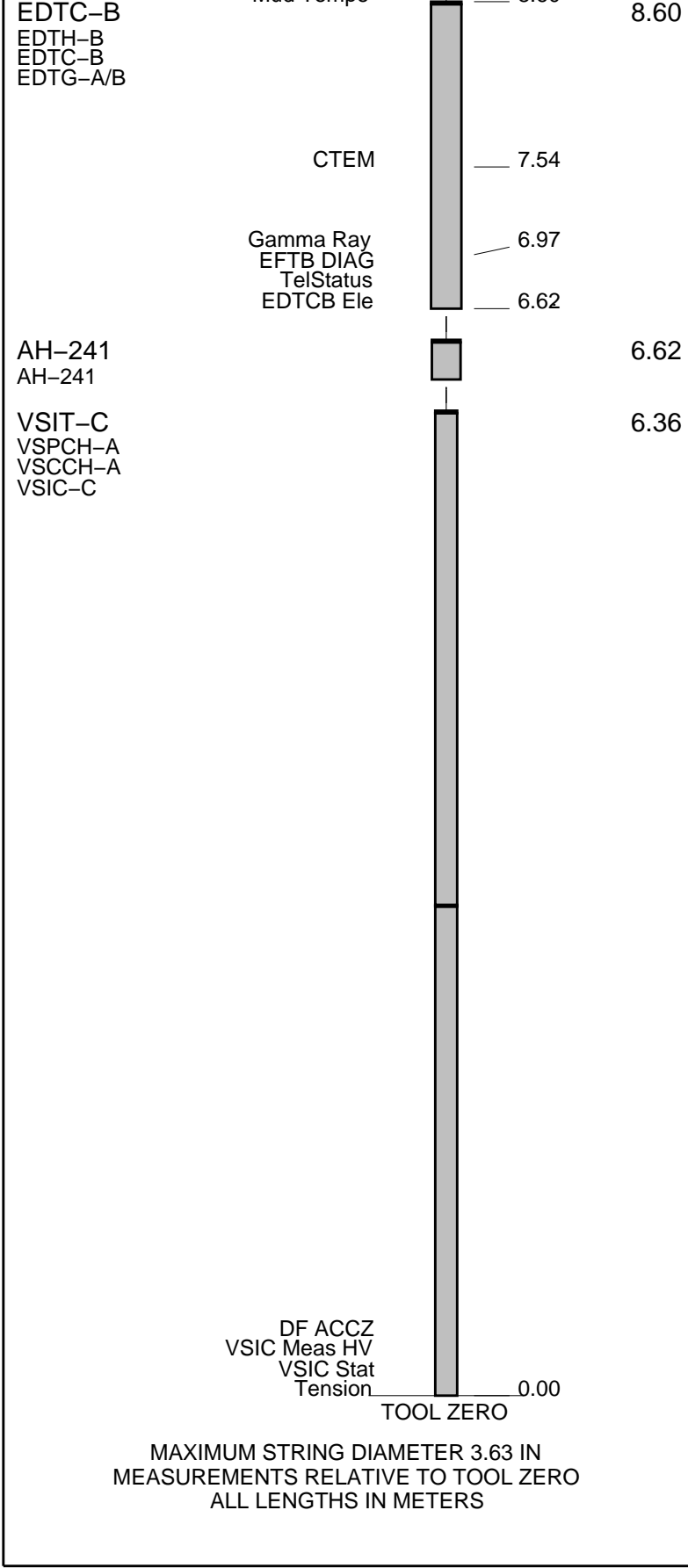
**Versatile Seismic Imager
Gamma Ray
Vertical Seismic Profile**

Rig: JOIDES Resolution
Field: Mediterranean Outflow (Portugal)
Location: Latitude: N 36° 25.517'
Well: Expedition 339, Site U1389GC-1
Company: Lamont Doherty

LOCATION		Elev.:	K.B. 11.00 m
Latitude: N 36° 25.517'		G.L. -645.00 m	
Longitude: W 7° 16.688'		D.F. 11.00 m	
Permanent Datum:	Mean Sea Level	Elev.:	0.00 m
Log Measured From:	Drill Floor	11.00 m above Perm. Datum	
Drilling Measured From:	Drill Floor		
API Serial No.	Max. Hole Devi. 0 deg	Longitude W 7.2781*	Latitude N 36.42528*

Logging Date	Run 1	Run 2	Run
Run Number			
Depth Driller			
Schlumberger Depth			
Bottom Log Interval			
Top Log Interval			
Casing Driller Size @ Depth			
Casing Schlumberger			
Bit Size			
Type Fluid In Hole			
Density			
Fluid Loss			
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			

Logging Date	24-Dec-2011		
Run Number	1		
Depth Driller	1011 m		
Schlumberger Depth	1012 m		
Bottom Log Interval	1011 m		
Top Log Interval	766 m		
Casing Driller Size @ Depth	10.750 in @ 742 m		
Casing Schlumberger	740 m		
Bit Size	9.875 in		
Type Fluid In Hole	Seawater Gel		
Density	1.25 g/cm3		
Fluid Loss	PH		
Source Of Sample	N/A		
RM @ Measured Temperature	@	@	
RMF @ Measured Temperature	@	@	
RMC @ Measured Temperature	@	@	
Source RMF	RMC	N/A	
RM @ MRT	RMF @ MRT	@ 21	@ 21
Maximum Recorded Temperatures	21 degC		
Circulation Stopped	24-Dec-2011	Time	0:00
Logger On Bottom	24-Dec-2011	Time	8:36
Unit Number	625003	Location	Houston
Recorded By	K. Swain		
Witnessed By	T. Williams, J. Lofi		

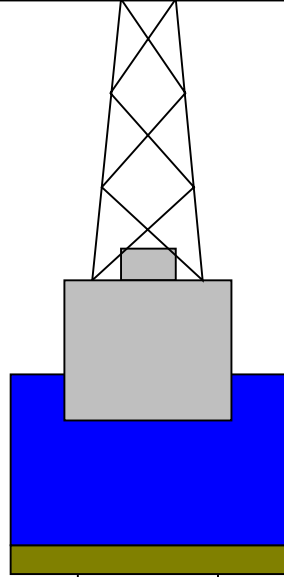


Production String	(in)	(M)	Well Schematic	(M)	(in)	Casing String
	OD	ID		MD	MD	

Kelly Bushing Elevation
Derrick Floor Elevation

Mean Sea Level

-656
-656
-645



4.1



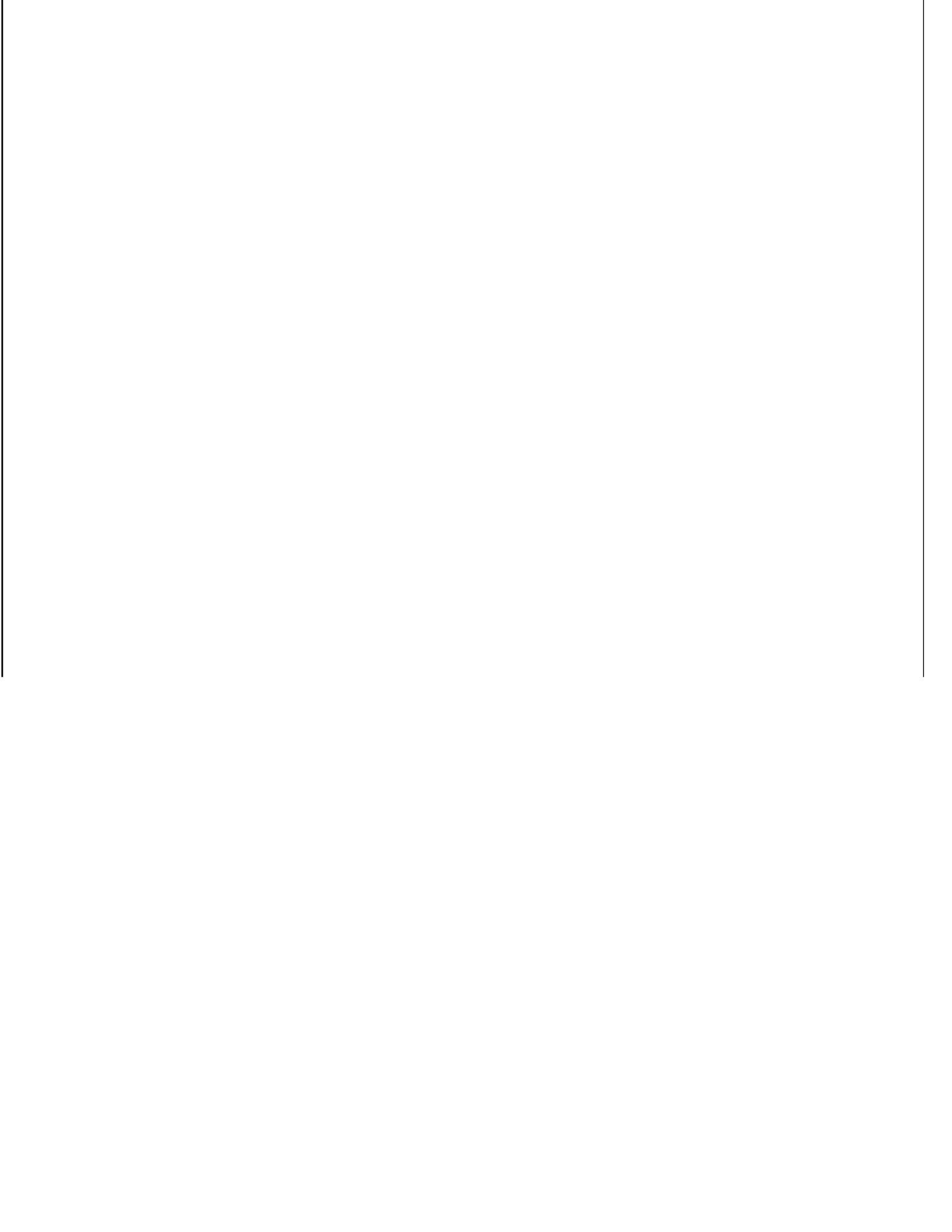
0
86
355

3.80
9.875

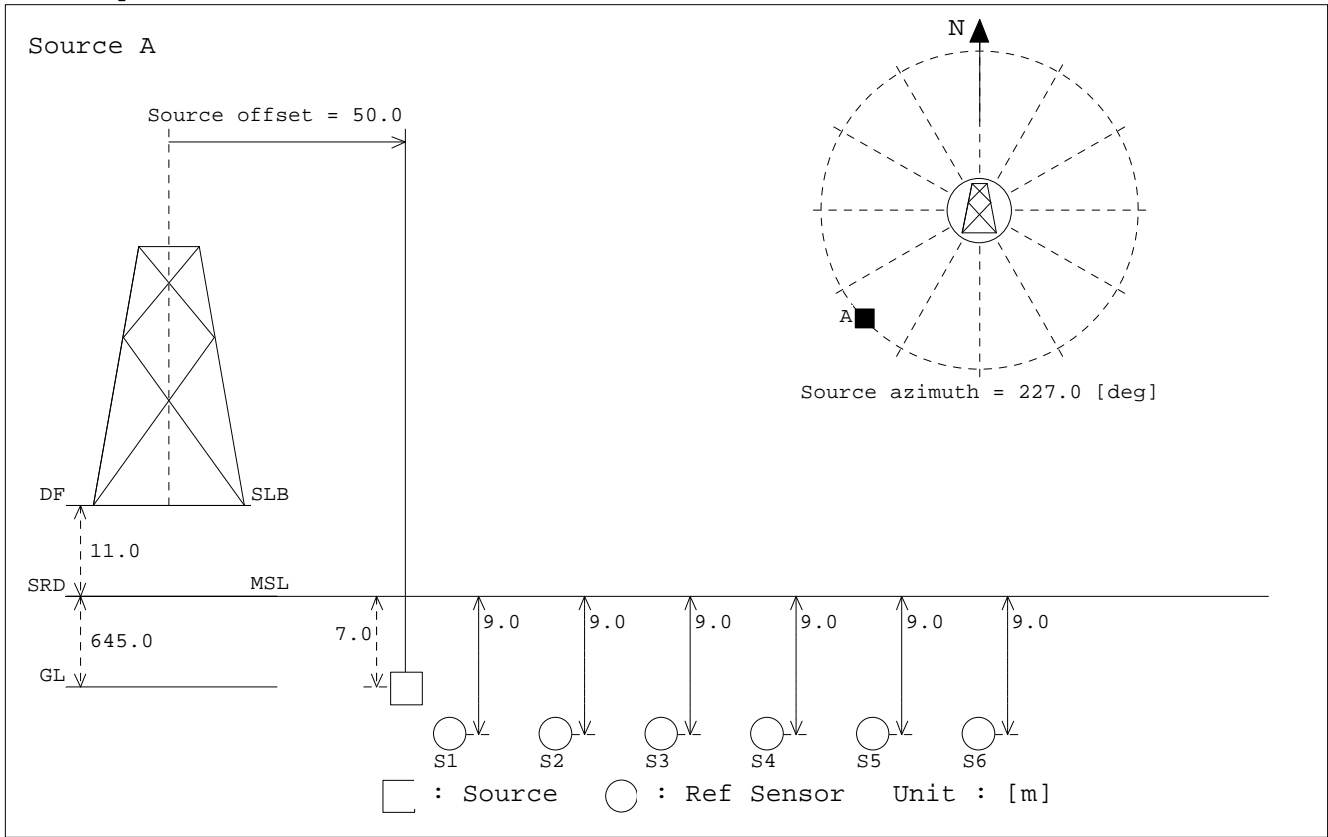
Sea Floor

Open Hole

Total Depth



Geometry Sketch (1/1)



Stack Summary Listing - Source:A (1/1)

Stack number	Well depth [m]	TVD from [m]	TT [ms]	TT(TVD Corrected) [ms]	TWT(TVD Corrected) [ms]	Interval Velocity [m/s]	Average Velocity [m/s]	RMS Velocity [m/s]
13	766.0	755.0	490.6	495.5	990.9	1905.7	1523.8	1523.8
12	789.0	778.0	502.6	507.6	1015.1	1729.8	1532.9	1534.0
11	819.1	808.1	519.9	524.9	1049.8	1779.0	1539.4	1540.9
9	853.0	842.0	539.0	544.0	1088.0	1923.5	1547.8	1549.8
8	868.0	857.0	546.8	551.8	1103.6	1886.6	1553.1	1555.8
7	907.1	896.1	567.4	572.5	1145.0	1769.4	1565.2	1568.9
6	932.1	921.1	581.5	586.6	1173.3	2073.5	1570.1	1574.1
5	948.7	937.7	589.5	594.7	1189.3	1896.8	1576.9	1581.8
4	976.0	965.0	603.9	609.1	1218.1	1763.5	1584.4	1590.0
1	1011.3	1000.3	623.9	629.1	1258.1	0.0	1590.1	1595.8
2	1011.3	1000.3	623.9	629.1	1258.1		1590.2	1595.8
1	1011.3	1000.3	39.8	45.8	91.6		1590.2	1595.8

Job Summary Listing (1/2)

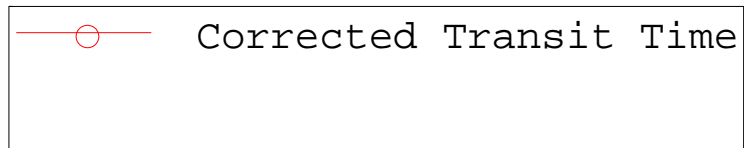
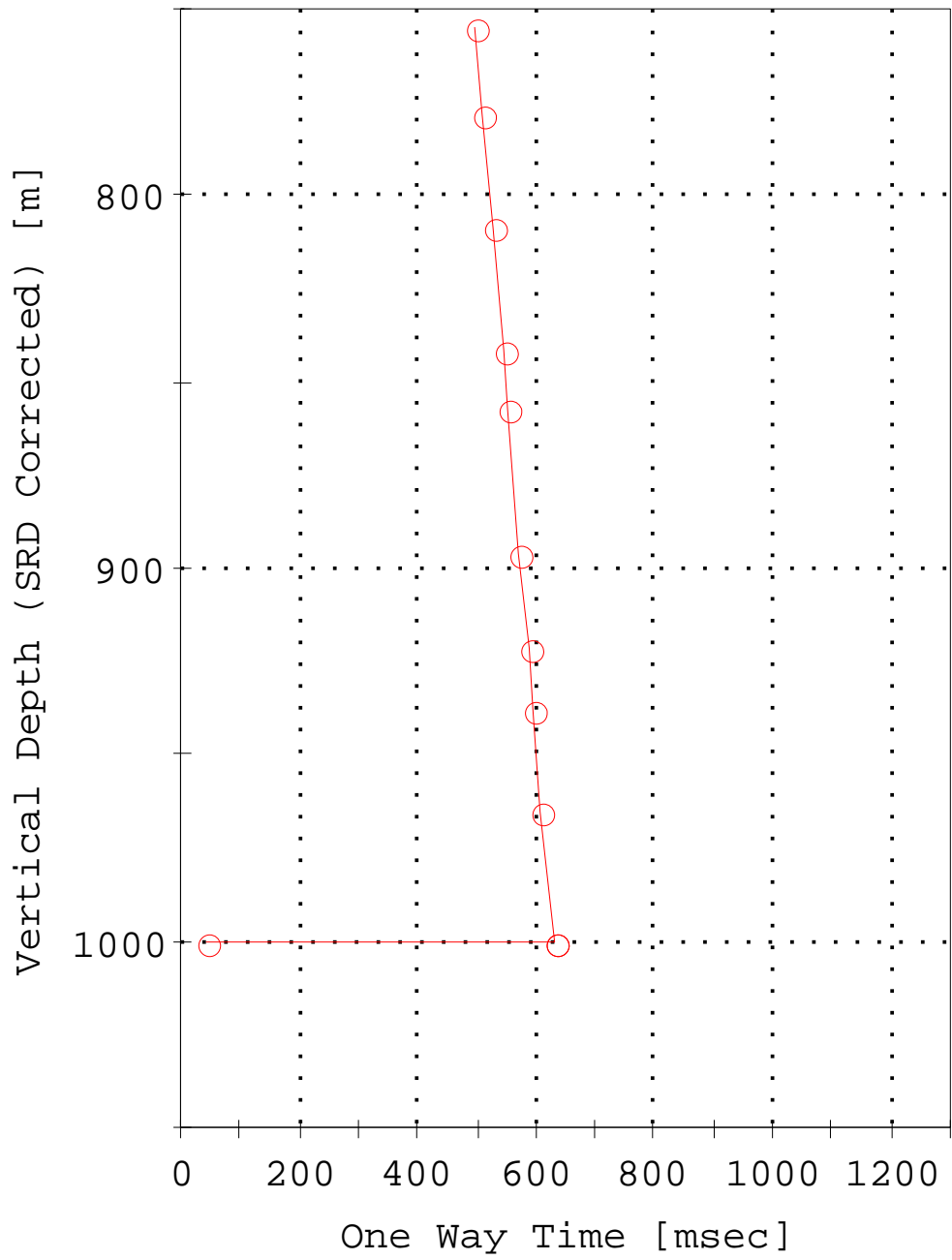
Well depth [m]	Time	Shot Type	Shot#	Stack#	Source	Remarks
1011.3	12:56:48	SHAK	1			1st anchoring
1011.3	12:57:38	SHOT	2	1	A	no real shot
1011.3	13:13:23	SHOT	3	2	A	good
1011.3	13:15:21	SHOT	4	2	A	not good
1011.3	13:15:39	SHOT	5	2	A	good
1011.3	13:16:14	SHOT	6	2	A	might be ok
1011.3	13:17:03	SHOT	7	2	A	very good
1011.3	13:17:21	SHOT	8	2	A	very good
1011.3	13:17:39	SHOT	9	2	A	not the best
1011.3	13:18:13	SHOT	10	2	A	very good
995.7	13:28:30	SHOT	11	3	A	not good
995.7	13:28:52	SHOT	12	3	A	not good
995.7	13:29:10	SHOT	13	3	A	not good
995.7	13:29:28	SHOT	14	3	A	not good
995.7	13:29:50	SHOT	15	3	A	not good
976.0	13:34:46	SHOT	16	4	A	not good
976.0	13:35:21	SHOT	17	4	A	noisy on x and y but z might be ok
976.0	13:35:45	SHOT	18	4	A	ok
976.0	13:36:18	SHOT	19	4	A	ok
976.0	13:36:40	SHOT	20	4	A	very noisy
976.0	13:37:01	SHOT	21	4	A	noisy
976.0	13:37:27	SHOT	22	4	A	ok but noisy
976.0	13:37:57	SHOT	23	4	A	not good
976.0	13:38:16	SHOT	24	4	A	good
948.7	13:46:02	SHOT	25	5	A	no good
948.7	13:46:43	SHOT	26	5	A	good
948.7	13:47:01	SHOT	27	5	A	good
948.7	13:47:19	SHOT	28	5	A	good
948.7	13:47:37	SHOT	29	5	A	not good
948.7	13:47:55	SHOT	30	5	A	ok
948.7	13:48:13	SHOT	31	5	A	good
932.1	13:53:16	SHOT	32	6	A	no good
932.1	13:53:39	SHOT	33	6	A	no good
932.1	13:53:57	SHOT	34	6	A	good
932.1	13:54:15	SHOT	35	6	A	has echo
932.1	13:55:51	SHOT	36	6	A	very good
932.1	13:56:09	SHOT	37	6	A	ok
932.1	13:56:30	SHOT	38	6	A	too noisy
932.1	13:56:48	SHOT	39	6	A	ok but some noise early
932.1	13:57:16	SHOT	40	6	A	maybe good
907.1	14:03:48	SHOT	41	7	A	not good
907.1	14:04:16	SHOT	42	7	A	noisy
907.1	14:04:34	SHOT	43	7	A	noisy
907.1	14:04:52	SHOT	44	7	A	bad
907.1	14:05:25	SHOT	45	7	A	good
907.1	14:05:49	SHOT	46	7	A	noisy
907.1	14:06:13	SHOT	47	7	A	good
907.1	14:06:32	SHOT	48	7	A	no good
907.1	14:07:03	SHOT	49	7	A	large noise
907.1	14:07:45	SHOT	50	7	A	ok

Job Summary Listing (2/2)

Well depth [m]	Time	Shot Type	Shot#	Stack#	Source	Remarks
907.1	14:08:08	SHOT	51	7	A	ok
907.1	14:08:33	SHOT	52	7	A	good
868.0	14:16:17	SHOT	53	8	A	bit noisy
868.0	14:16:48	SHOT	54	8	A	bit noisy
868.0	14:17:10	SHOT	55	8	A	noisy
868.0	14:17:43	SHOT	56	8	A	ok
868.0	14:18:02	SHOT	57	8	A	ok
868.0	14:18:54	SHOT	58	8	A	ok
868.0	14:19:12	SHOT	59	8	A	ok
868.0	14:19:38	SHOT	60	8	A	ok
853.0	14:24:14	SHOT	61	9	A	noisy
853.0	14:24:32	SHOT	62	9	A	good
853.0	14:24:50	SHOT	63	9	A	good
853.0	14:25:08	SHOT	64	9	A	bad
853.0	14:25:26	SHOT	65	9	A	good
853.0	14:25:44	SHOT	66	9	A	good
853.0	14:26:02	SHOT	67	9	A	good
821.0	14:32:36	SHOT	68	10	A	bad
821.0	14:32:54	SHOT	69	10	A	bad
819.1	14:36:51	SHOT	70	11	A	noisy
819.1	14:37:12	SHOT	71	11	A	maybe ok
819.1	14:37:31	SHOT	72	11	A	noisy
819.1	14:37:51	SHOT	73	11	A	noisy
819.1	14:38:22	SHOT	74	11	A	noisy
819.1	14:38:59	SHOT	75	11	A	noisy
789.0	14:45:14	SHOT	76	12	A	no
789.0	14:46:10	SHOT	77	12	A	no
789.0	14:46:46	SHOT	78	12	A	good
789.0	14:47:19	SHOT	79	12	A	ok
789.0	14:47:37	SHOT	80	12	A	ok
789.0	14:48:01	SHOT	81	12	A	bad
789.0	14:48:23	SHOT	82	12	A	good
789.0	14:48:41	SHOT	83	12	A	good
766.0	14:54:13	SHOT	84	13	A	noisy
766.0	14:54:31	SHOT	85	13	A	ok
766.0	14:54:50	SHOT	86	13	A	bad
766.0	14:55:08	SHOT	87	13	A	bad
766.0	14:55:36	SHOT	88	13	A	better, noise on Y
766.0	14:55:56	SHOT	89	13	A	better, noise on Y
766.0	14:56:14	SHOT	90	13	A	good
766.0	14:56:33	SHOT	91	13	A	good
766.0	14:56:55	SHOT	92	13	A	good Z
766.0	14:57:13	SHOT	93	13	A	good

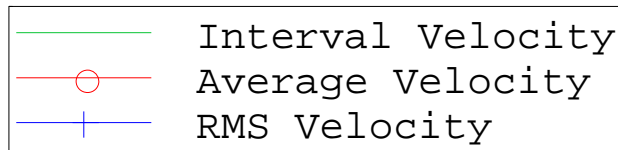
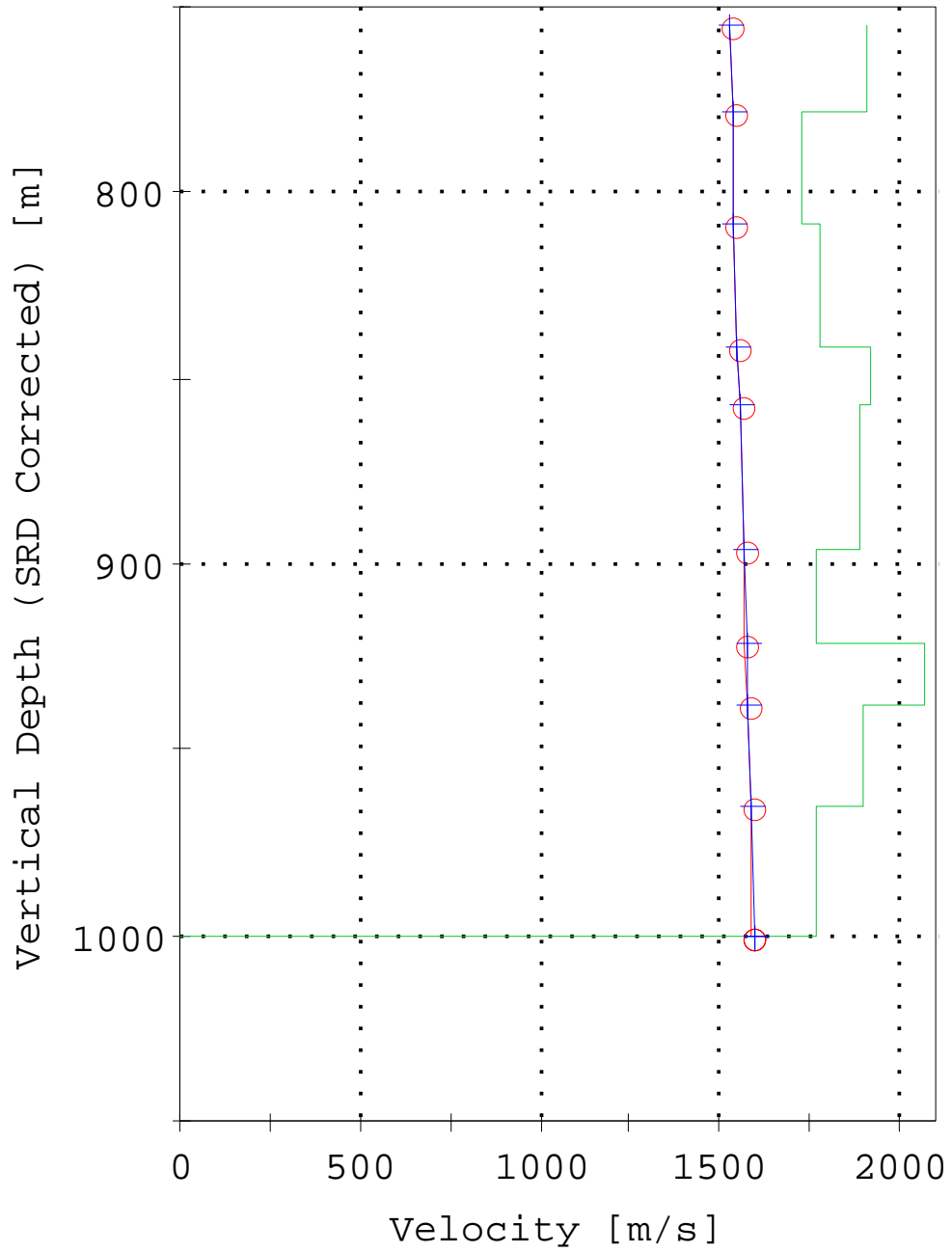
Time-Depth Plot

Source Offset = 50.00 m
Source Azimuth = 227.00 degree
Source Depth (from SRD) = 7.00 m

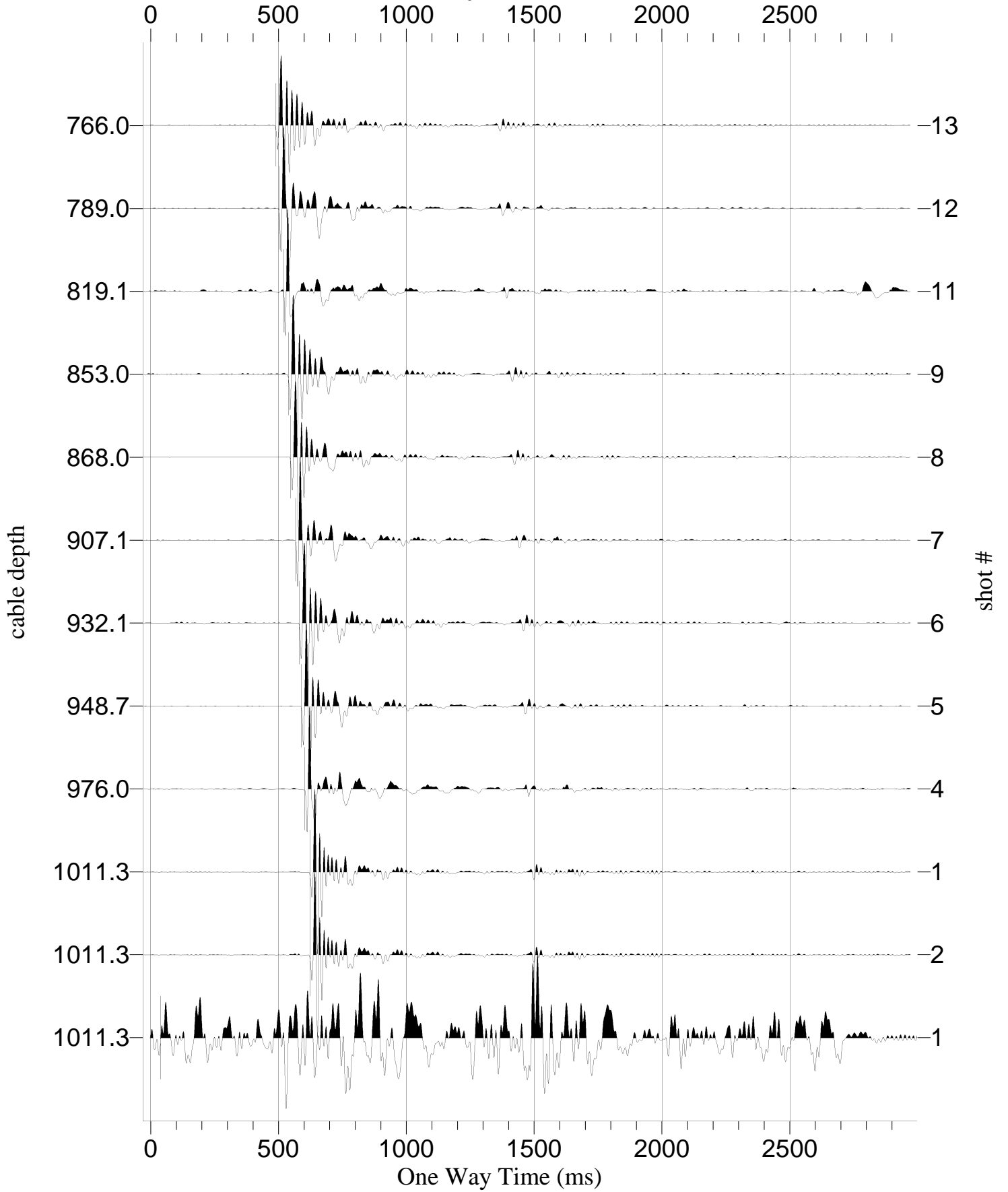


Velocity Plot

SRD below Measured Depth Zero = 11.00 m



Wavefield (A, Z)



Output DLIS Files

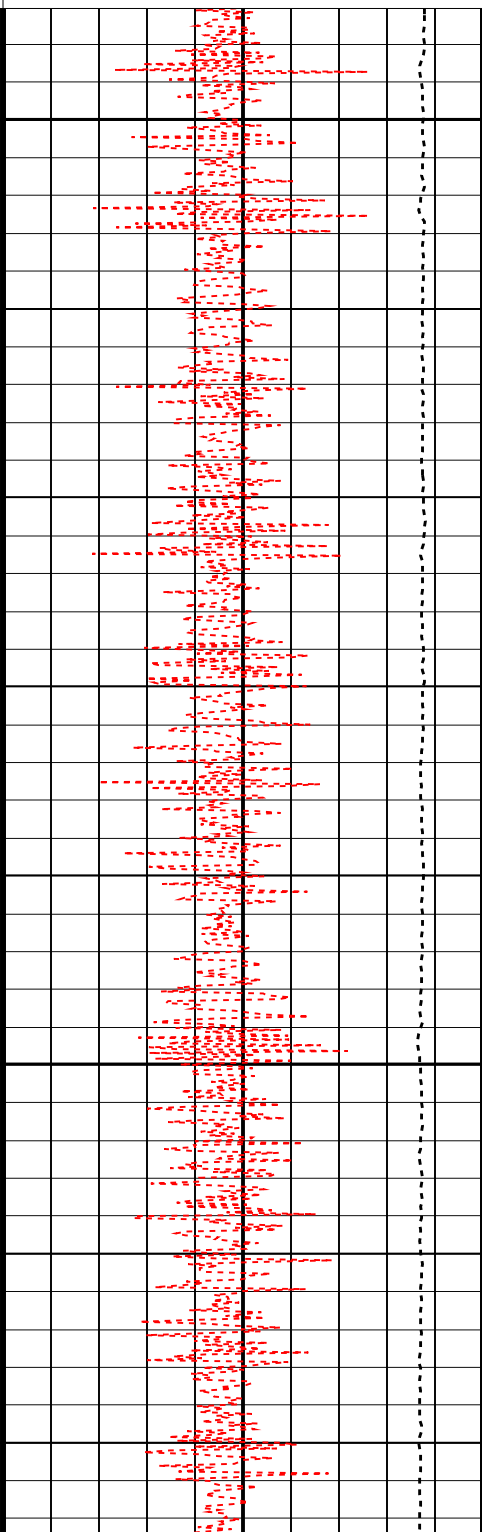
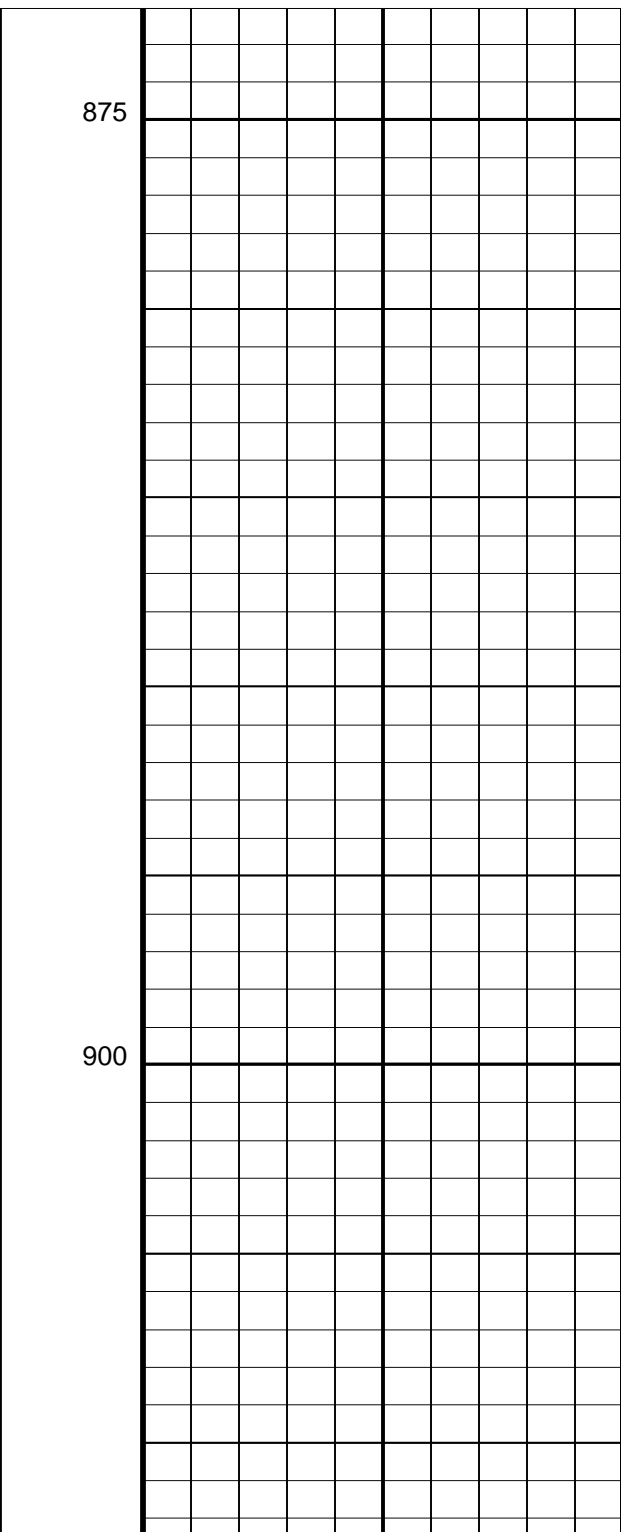
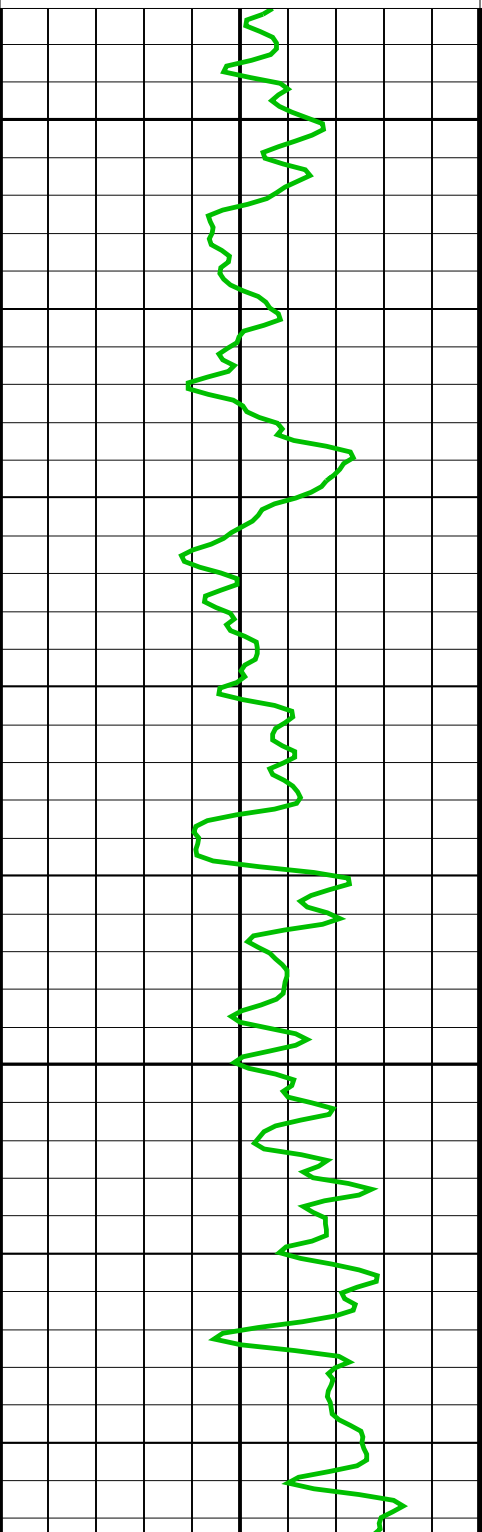
DEFAULT VSIT_031LUP
BACKUPDLIS VSIT_031LUP

FN:49 PRODUCER 24-Dec-2011 12:42
FN:50 PRODUCER 24-Dec-2011 12:42

OP System Version: 19C0-187

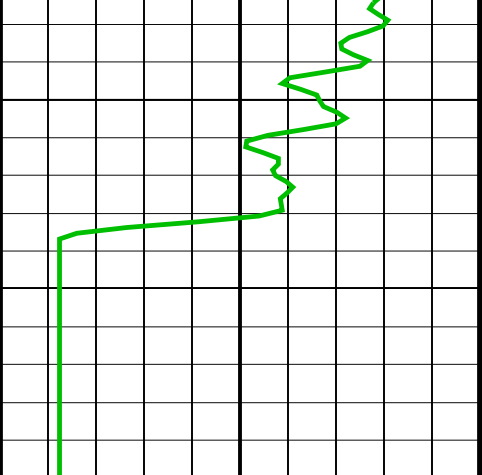
VSIT-C 19C0-187 EDTC-B 19C0-187

		Tension (TENS) (LBF)		10000	0
Gamma Ray (GR_EDTC) (GAPI)		tied in		EDTC Z-Axis Accelerometer (AZ_EDTC) (M/S ²)	
0	75			8	12

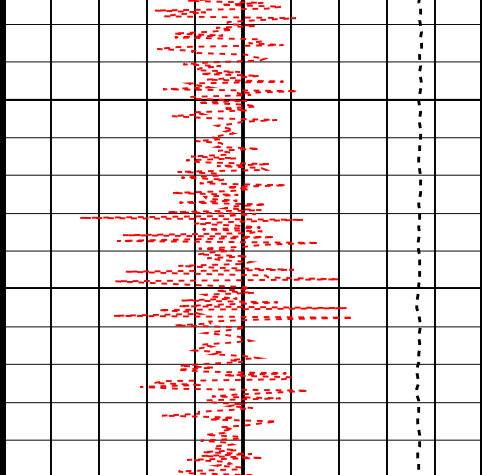


875

900



925



Gamma Ray (GR_EDTC)
 0 (GAPI) 75

EDTC Z-Axis Accelerometer (AZ_EDTC)
 8 (M/S²) 12

Tension (TENS)
 10000 (LBF) 0

Format: CORRELATION_EDTCB Vertical Scale: 1:200 Graphics File Created: 24-Dec-2011 12:42

OP System Version: 19C0-187

VSIT-C 19C0-187 EDTC-B 19C0-187

Output DLIS Files

DEFAULT	VSIT_031LUP	FN:49	PRODUCER	24-Dec-2011 12:42
BACKUPDLIS	VSIT_031LUP	FN:50	PRODUCER	24-Dec-2011 12:42

Calibration and Check Summary


Measurement	Nominal	Master	Before	After	Change	Limit	Units
Enhanced DTS Cartridge Wellsite Calibration – EDTC Accelerometer Calibration							
Before: 7-Dec-2011 19:06							
EDTC Z-Axis Acceleration	9.810	N/A	9.822	N/A	N/A	N/A	M/S2
Enhanced DTS Cartridge Wellsite Calibration – Detector Calibration							
Before: Calibration out of date 26-Nov-2011 0:18							
Gamma Ray (Jig – Bkg)	163.8	N/A	163.8	N/A	N/A	14.89	GAPI
Gamma Ray (Calibrated)	164.0	N/A	164.0	N/A	N/A	15.00	GAPI

Enhanced DTS Cartridge / Equipment Identification

Primary Equipment:		
EDTC Gamma Ray Detector	EDTG – A/B	77693
Enhanced DTS Cartridge	EDTC – B	8259
Auxiliary Equipment:		
EDTC Housing	EDTH – B	8528

Enhanced DTS Cartridge Wellsite Calibration

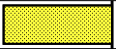


EDTC Accelerometer Calibration

Phase	EDTC Z-Axis Acceleration M/S2	Value
Before		9.822
	9.610 (Minimum) 9.810 (Nominal) 10.01 (Maximum)	

Before: 7-Dec-2011 19:06

Enhanced DTS Cartridge Wellsite Calibration

Detector Calibration

Phase	Gamma Ray Background GAPI	Value	Phase	Gamma Ray (Jig – Bkg) GAPI	Value	Phase	Gamma Ray (Calibrated) GAPI	Value
Before		9.201	Before		163.8	Before		164.0
	0 (Minimum) 30.00 (Nominal) 120.0 (Maximum)			148.9 (Minimum) 163.8 (Nominal) 178.7 (Maximum)			149.0 (Minimum) 164.0 (Nominal) 179.0 (Maximum)	

Before: Calibration out of date 26-Nov-2011 0:18

Company: **Lamont Doherty**

Schlumberger

Well: **Expedition 339, Site U1389GC-11A**

Field: **Mediterranean Outflow (Portugal)**

Rig: **JOIDES Resolution**

Ocean: **Atlantic**

Versatile Seismic Imager

Gamma Ray

Vertical Seismic Profile