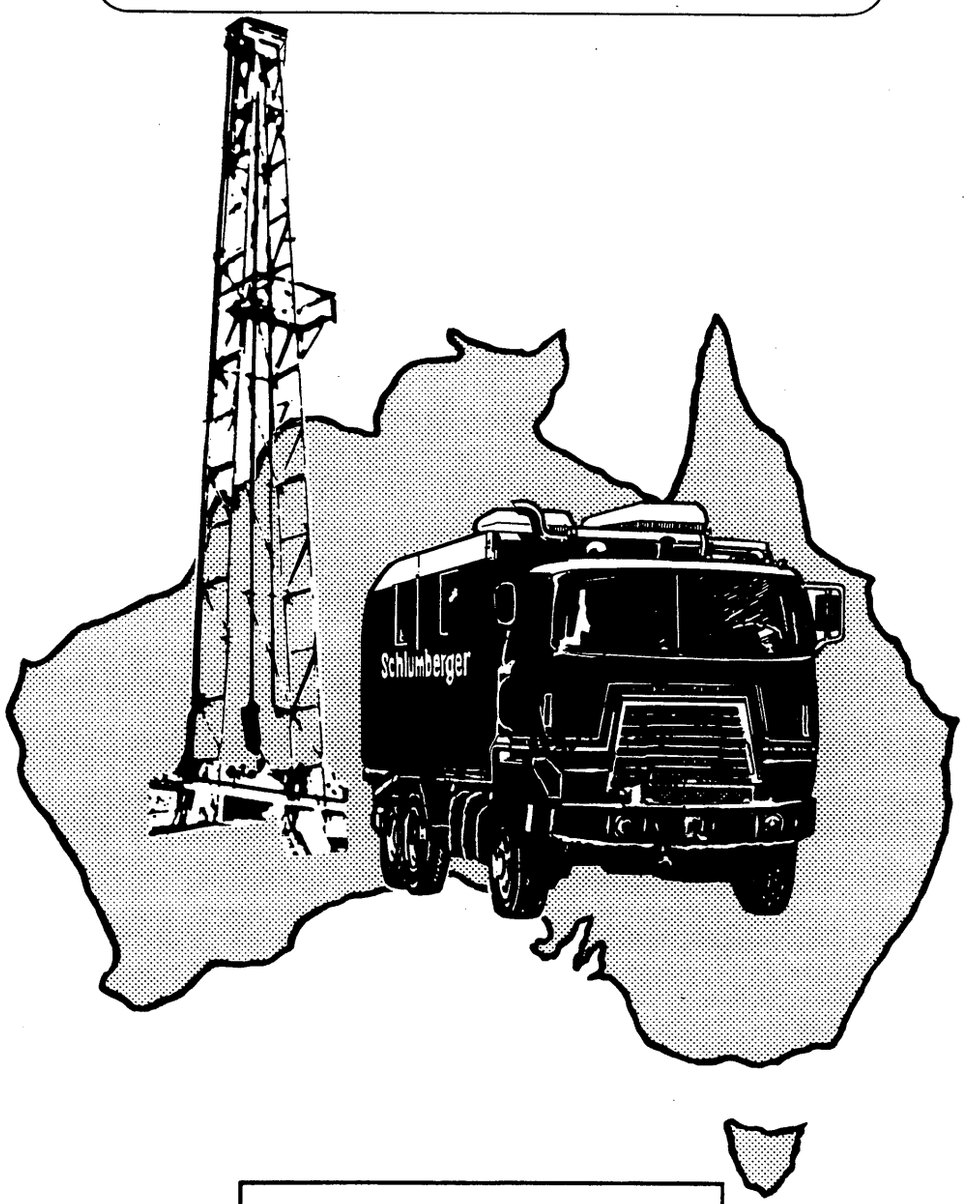
Appendix 5 of
WCR vol. 1

DEPT. NAT. RES & ENV
PE904904



Schlumberger

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ESSO AUSTRALIA LTD

03 NOV 1989

SONIC CALIBRATION AND GEOGRAM PROCESSING REPORT

PETROLEUM DIVISION

HARLEQUIN #1

FIELD	:	WILDCAT
STATE	:	VICTORIA
COUNTRY	:	AUSTRALIA
COORDINATES	:	038° 11' 59.94" S 147° 42' 28.06" E
DATE OF SURVEY	:	1 FEBRUARY 89
REFERENCE NO.	:	569304

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1. Introduction

A checkshot survey was shot in the Harlequin #1 well on 1 February 1989. Data was acquired using an airgun source located 40 meters from the wellhead. Eleven levels were shot from 2574 meters to 990 meters below KB. All levels were used in the sonic calibration processing.

2. Data Acquisition

The data was acquired using the well seismic tool (WST). Recording was made on the Schlumberger Cyber Service Unit (CSU) using LIS format at a tape density of 800 BPI.

Table 1: Survey Parameters

Datum	AMSL
Elevation KB	21.0 meters AMSL
Elevation DF	20.7 meters AMSL
Elevation GL	43 meters below AMSL
Total Depth	2574 meters below KB
Energy Source	Airgun
Source Offset	40meters
Source Depth	9.1 meters
Reference Sensor	Accelerometer
Downhole Geophone	Geospace HS-1 High Temp. ($350°F$) Coil Resist. 225Ω ± 10 % Natural Freq. 8-12 hertz Sensitivity 0.45 V/in/sec Maximum tilt angle 60°

3. Sonic Calibration Processing

3.1 Sonic Calibration

A 'drift' curve is obtained using the sonic log and the vertical check level times. The term 'drift' is defined as the seismic time (from check shots) minus the sonic time (from integration of edited sonic). Commonly the word 'drift' is used to identify the above difference, or to identify the gradient of drift versus increasing depth, or to identify a difference of drift between two levels.

The gradient of drift, that is the slope of the drift curve, can be negative or positive.

For a negative drift $\frac{\Delta drift}{\Delta depth} < 0$, the sonic time is greater than the seismic time over a certain section of the log.

For a positive drift $\frac{\Delta drift}{\Delta depth} > 0$, the sonic time is less than the seismic time over a certain section of the log.

The drift curve, between two levels, is then an indication of the error on the integrated sonic or an indication of the amount of correction required on the sonic to have the TTI of the corrected sonic match the check shot times.

Two methods of correction to the sonic log are used.

1. **Uniform or block shift** This method applies a uniform correction to all the sonic values over the interval. This uniform correction is applied in the case of positive drift and is the average correction represented by the drift curve gradient expressed in μsec/ft.

2. **ΔT Minimum** In the case of negative drift a second method is used, called Δt minimum. This applies a differential correction to the sonic log, where it is assumed that the greatest amount of transit time error is caused by the lower velocity sections of the log. Over a given interval the method will correct only Δt values which are higher than a threshold, the Δt_{min}. Values of Δt which are lower than the threshold are not corrected. The correction is a reduction of the excess of Δt over Δt_{min}, Δt - Δt_{min}.

   $\Delta t - \Delta t_{min}$ is reduced through multiplication by a reduction coefficient which remains constant over the interval. This reduction coefficient, named G, can be be defined as:

   $$G = 1 + \frac{drift}{\int (\Delta t - \Delta t_{min}) dZ}$$

   Where drift is the drift over the interval to be corrected and the value $\int (\Delta t - \Delta t_{min}) dZ$ is the time difference between the integrals of the two curves Δt and Δt_{min}, only over the intervals where $\Delta t > \Delta t_{min}$.

   Hence the corrected sonic: $\Delta t = G(\Delta t - \Delta t_{min}) + \Delta t_{min}$.

3.2 Checkshot Data

The accelerometer on the airgun is used as the zero time reference. Checkshot data quality is good and is displayed in Figure 2.

3.3 Correction to Datum

An additional checkshot was imposed at the top of the sonic log (200 meters below KB) with a time consistent with zero drift from the shallowest checkshot at 990 meters.

3.4 Open Hole Logs

The sonic log was recorded from 2547 meters to 200 meters below KB. Minor zones of cycle skipping have been removed. The density log was recorded from 2564 meters to 746 meters and is extrapolated to the surface at a constant density of 2.35 gm/cc .

The caliper and gamma ray curves are included as correlation curves.

3.5 Sonic Calibration Results

The top of the sonic log (200 meters below KB) is chosen as the origin for the calibration drift curve.

The drift curve indicates a number of corrections to be made to the sonic log. The adjusted sonic curve is considered to be the best result using the available data. A list of shifts used on the sonic data is given below.

Table 2: Sonic Drift

Depth Interval (meters below KB)	Block Shift μsec/ft	Δt_{min} μsec/ft	Equiv Block Shift μsec/ft
990-1701	-	103.27	-0.09
1701-2245	-	79.48	-1.26
2245-2560	0.48	-	0.48
2560-2574	0	-	0

4. Synthetic Seismogram Processing

GEOGRAM plots were generated using zero phase and minimum phase Ricker wavelets (25 Hz and 35 Hz).

The presentations include both normal and reverse polarity on a time scale of 10 cm/sec.

GEOGRAM processing produces synthetic seismic traces based on reflection coefficients generated from sonic and density measurements in the well-bore. The steps in the processing chain are the following:

Depth to time conversion
Reflection coefficient generation
Attenuation coefficient calculation
Convolution
Output.

4.1 Depth to Time Conversion

Open hole logs are recorded from the bottom to top with a depth index. This data is converted to a two-way time index and flipped to read from the top to bottom in order to match the seismic section.

4.2 Primary Reflection Coefficients

Sonic and density data are averaged over chosen time intervals (normally 2 or 4 millisecs). Reflection coefficients are then computed using:

$$R = \frac{\rho_2.\nu_2 - \rho_1.\nu_1}{\rho_2.\nu_2 + \rho_1.\nu_1}$$

where:

ρ_1 = density of the layer above the reflection interface
ρ_2 = density of the layer below the reflection interface
ν_1 = compressional wave velocity of the layer above the reflection interface
ν_2 = compressional wave velocity of the layer below the reflection interface

This computation is done for each time interval to generate a set of primary reflection coefficients without transmission losses.

4.3 Primaries with Transmission Loss

Transmission loss on two-way attenuation coefficients is computed using:

$$A_n = (1 - R_1^2).(1 - R_2^2).(1 - R_3^2)...(1 - R_n^2)$$

A set of primary reflection coefficients with transmission loss is generated using:

$$Primary_n = R_n.A_{n-1}$$

4.4 Primaries plus Multiples

Multiples are computed from these input reflection coefficients using the transform technique from the top of the well to obtain the impulse response of the earth. The transform outputs primaries plus multiples.

4.5 Multiples Only

By subtracting previously calculated primaries from the above result we obtain multiples only.

4.6 Wavelet

A theoretical wavelet is chosen to use for convolution with the reflection coefficients previously generated. Choices available include:

Klauder wavelet
Ricker zero phase wavelet
Ricker minimum phase wavelet
Butterworth wavelet
User defined wavelet.

Time variant Butterworth filtering can be applied after convolution.

4.7 Polarity Convention

An increase in acoustic impedance gives a positive reflection coefficent, is written to tape as a negative number and is displayed as a white trough under normal polarity. Polarity conventions are displayed in Figure-1.

4.8 Convolution

The standard procedure of convolving the wavelet with reflection coefficients; the output is the synthetic seismogram.

5. Summary of Geophysical Listings

Six geophysical data listings are appended to this report. Following is a brief description of the format of each listing.

5.1 Geophysical Airgun Report

1. Level number : the level number starting from the top level (includes any imposed shots).
2. Measured depth from KB : *dkb*, the depth in meters from kelly bushing .
3. Vertical depth from SRD : *dsrd*, the depth in meters from seismic reference datum.
4. Vertical depth from GL : *dgl*, the depth in meters from ground level.
5. Observed travel time HYD to GEO : *tim*0, the transit time picked from the stacked data by subtracting the surface sensor first break time from the downhole sensor first break time.
6. Vertical travel time SRC to GEO : *timv*, is corrected for source to hydrophone distance and for source offset.
7. Vertical travel time SRD to GEO : *shtm*, is *timv* corrected for the vertical distance between source and datum.
8. Average velocity SRD to GEO : the average seismic velocity from datum to the corresponding checkshot level, $\frac{dsrd}{shtm}$.
9. Delta depth between shots : $\Delta depth$, the vertical distance between each level.
10. Delta time between shots : $\Delta time$, the difference in vertical travel time (*shtm*) between each level.
11. Interval velocity between shots : the average seismic velocity between each level, $\frac{\Delta depth}{\Delta time}$.

5.2 Drift Computation Report

1. Level number : the level number starting from the top level (includes any imposed shots).
2. Vertical depth from KB : the depth in meters from kelly bushing .
3. Vertical depth from SRD : the depth in meters from seismic reference datum.
4. Vertical depth from GL : the depth in meters from ground level.
5. Vertical travel time SRD to GEO : the calculated vertical travel time from datum to downhole geophone (see column 7, Geophysical Airgun Report).

6. Integrated raw sonic time : the raw sonic log is integrated from top to bottom and listed at each level. An initial value at the top of the sonic log is set equal to the checkshot time at that level. This may be an imposed shot if a shot was not taken at the top of the sonic.

7. Computed drift at level : the checkshot time minus the integrated raw sonic time.

8. Computed blk-shft correction : the drift gradient between any two checkshot levels ($\frac{\Delta drift}{\Delta depth}$).

5.3 Sonic Adjustment Parameter Report

1. Knee number : the knee number starting from the highest knee. (The first knees listed will generally be at SRD and the top of sonic. The drift imposed at these knees will normally be zero.)

2. Vertical depth from KB : the depth in meters from kelly bushing .

3. Vertical depth from SRD : the depth in meters from seismic reference datum.

4. Vertical depth from GL : the depth in meters from ground level.

5. Drift at knee : the value of drift imposed at each knee.

6. Blockshift used : the change in drift divided by the change in depth between any two levels.

7. Delta-T minimum used : see section 4 of report for an explanation of Δt_{min}.

8. Reduction factor : see section 4 of report.

9. Equivalent blockshift : the gradient of the imposed drift curve.

5.4 Velocity Report

1. Level number : the level number starting from the top level (includes any imposed shots).

2. Vertical depth from KB : the depth in meters from kelly bushing .

3. Vertical depth from SRD : the depth in meters from seismic reference datum

4. Vertical depth from GL : the depth in meters from ground level

5. Vertical travel time SRD to GEOPH : the vertical travel time from SRD to downhole geophone (see column 7, Geophysical Airgun Report)

6. Integrated adjusted sonic time : the adjusted sonic log is integrated from top to bottom. An initial value at the the top of the sonic is set equal the checkshot time at that level. (The adjusted sonic log is the drift corrected sonic log.)

7. Drift=shot time-raw sonic : the check shot time minus the raw integrated sonic time.

8. Residual=shot time-adj sonic : the check shot time minus the adjusted integrated sonic time. This is the difference between calculated drift and the imposed drift.

9. Adjusted interval velocity : the interval velocity calculated from the integrated adjusted sonic time at each level.

5.5 Time Converted Velocity Report

The data in this listing has been resampled in time.

1. Two way travel time from SRD : This is the index for the data in this listing. The first value is at SRD (0 millisecs) and the sampling rate is 2 millisecs.

2. Measured depth from KB : the depth from KB at each corresponding value of two way time.

3. Vertical depth from SRD : the vertical depth from SRD at each corresponding value of two way time.

4. Average velocity SRD to GEO : the vertical depth from SRD divided by half the two way time.

5. RMS velocity : the root mean square velocity from datum to the corresponding value of two way time.

$$v_{rms} = \sqrt{\Sigma_1^n v_i^2 t_i / \Sigma_1^n t_i}$$

where v_i is the velocity between each 2 millisecs interval.

6. First normal moveout : the correction time in millisecs to be applied to the two way travel time for a specified moveout distance (default = 3000 feet).

$$\Delta t = \sqrt{t^2 + (\frac{X}{v_{rms}})^2} - t$$

where:

Δt = normal moveout (secs)
X = moveout distance (meters)
t = two way time (secs)
v_{rms} = rms velocity (meters /sec)

7. Second normal moveout : the correction time in millisecs to be applied to the two way travel time for a specified moveout distance (default = 4500 feet).

8. Third normal moveout : the correction time in millisecs to be applied to the two way travel time for a specified moveout distance (default = 6000 feet).

9. Interval velocity : the velocity between each sampled depth. Typically, the sampling rate is 2 millisecs two way time, (1 millisec one way time) therefore the interval velocity will be equal to the depth increment divided by 0.001. It is equivalent to column 9 from the the Velocity Report.

5.6 Synthetic Seismogram Table

1. Two way travel time from SRD : This is the index for the data in this listing. The first value is at the top of the sonic. The default sampling rate is 2 millisecs.

2. Vertical depth from SRD : the vertical depth from SRD at each corresponding value of two way time.

3. Interval velocity : the velocity between each sampled depth. Typically, the sampling rate is 2 millisecs two way time, (1 millisec one way time) therefore the interval velocity will be equal to the depth increment divided by 0.001. It is equivalent to column 9 from the the Velocity Report.

4. Interval density : the average density between two successive values of two way time.

5. Reflect. coeff. : the difference in acoustic impedance divided by the sum of the acoustic impedance between any two levels. The acoustic impedance is the product of the interval density and the interval velocity.

6. Two way atten. coeff. : is computed from the series

$$A_n = (1 - R_1^2).(1 - R_2^2).(1 - R_3^2)...(1 - R_n^2)$$

7. Synthetic seismogram primary : the product of the reflection coefficient at each depth and the two way attenuation coefficient up to that depth.

$$Primary_n = R_n.A_{n-1}$$

8. Primary + multiple : a transform technique is used to calculate multiples from the input reflection coefficients.

9. Multiples only : (Primary + multiple) - (Synthetic seismo. primary)

GEOGRAM
Drift Corrected Sonic
Seismic Calibration Log
25 Zero phase Geogram
35 Zero phase Geogram
25 Minimum phase Geogram
35 Minimum phase Geogram

A Summary of Geophysical Listings

Six geophysical data listings are appended to this report. Following is a brief description of the format of each listing.

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5. Observed travel time HYD to GEO : *tim*0, the transit time picked from the stacked data by subtracting the surface sensor first break time from the downhole sensor first break time.
6. Vertical travel time SRC to GEO : *timv*, is corrected for source to hydrophone distance and for source offset.
7. Vertical travel time SRD to GEO : *shtm*, is *timv* corrected for the vertical distance between source and datum.
8. Average velocity SRD to GEO : the average seismic velocity from datum to the corresponding checkshot level, $\frac{dsrd}{shtm}$.
9. Delta depth between shots : $\Delta depth$, the vertical distance between each level.
10. Delta time between shots : $\Delta time$, the difference in vertical travel time (*shtm*) between each level.
11. Interval velocity between shots : the average seismic velocity between each level, $\frac{\Delta depth}{\Delta time}$.

A2 Drift Computation Report

1. Level number : the level number starting from the top level (includes any imposed shots).
2. Vertical depth from KB : the depth in meters from kelly bushing .
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4. Vertical depth from GL : the depth in meters from ground level.
5. Vertical travel time SRD to GEO : the calculated vertical travel time from datum to downhole geophone (see column 7, Geophysical Airgun Report).

6. Integrated raw sonic time : the raw sonic log is integrated from top to bottom and listed at each level. An initial value at the top of the sonic log is set equal to the checkshot time at that level. This may be an imposed shot if a shot was not taken at the top of the sonic.

7. Computed drift at level : the checkshot time minus the integrated raw sonic time.

8. Computed blk-shft correction : the drift gradient between any two checkshot levels ($\frac{\Delta drift}{\Delta depth}$).

A3 Sonic Adjustment Parameter Report

1. Knee number : the knee number starting from the highest knee. (The first knees listed will generally be at SRD and the top of sonic. The drift imposed at these knees will normally be zero.)

2. Vertical depth from KB : the depth in meters from kelly bushing .

3. Vertical depth from SRD : the depth in meters from seismic reference datum.

4. Vertical depth from GL : the depth in meters from ground level.

5. Drift at knee : the value of drift imposed at each knee.

6. Blockshift used : the change in drift divided by the change in depth between any two levels.

7. Delta-T minimum used : see section 4 of report for an explanation of Δt_{min}.

8. Reduction factor : see section 4 of report.

9. Equivalent blockshift : the gradient of the imposed drift curve.

A4 Velocity Report

1. Level number : the level number starting from the top level (includes any imposed shots).

2. Vertical depth from KB : the depth in meters from kelly bushing .

3. Vertical depth from SRD : the depth in meters from seismic reference datum

4. Vertical depth from GL : the depth in meters from ground level

5. Vertical travel time SRD to GEOPH : the vertical travel time from SRD to downhole geophone (see column 7, Geophysical Airgun Report)

6. Integrated adjusted sonic time : the adjusted sonic log is integrated from top to bottom. An initial value at the the top of the sonic is set equal the checkshot time at that level. (The adjusted sonic log is the drift corrected sonic log.)

7. Drift=shot time-raw son : the check shot time minus the raw integrated sonic time.

8. Residual=shot time-adj son : the check shot time minus the adjusted integrated sonic time. This is the difference between calculated drift and the imposed drift.

9. Adjusted interval velocity : the interval velocity calculated from the integrated adjusted sonic time at each level.

A5 Time Converted Velocity Report

The data in this listing has been resampled in time.

1. Two way travel time from SRD : This is the index for the data in this listing. The first value is at SRD (0 millisecs) and the sampling rate is 2 millisecs.

2. Measured depth from KB : the depth from KB at each corresponding value of two way time.

3. Vertical depth from SRD : the vertical depth from SRD at each corresponding value of two way time.

4. Average velocity SRD to GEO : the vertical depth from SRD divided by half the two way time.

5. RMS velocity : the root mean square velocity from datum to the corresponding value of two way time.

$$v_{rms} = \sqrt{\Sigma_1^n v_i^2 t_i / \Sigma_1^n t_i}$$

where v_i is the velocity between each 2 millisecs interval.

6. First normal moveout : the correction time in millisecs to be applied to the two way travel time for a specified moveout distance (default = 3000 feet).

$$\Delta t = \sqrt{t^2 + (\frac{X}{v_{rms}})^2} - t$$

where:

Δt = normal moveout (secs)
X = moveout distance (meters)
t = two way time (secs)
v_{rms} = rms velocity (meters /sec)

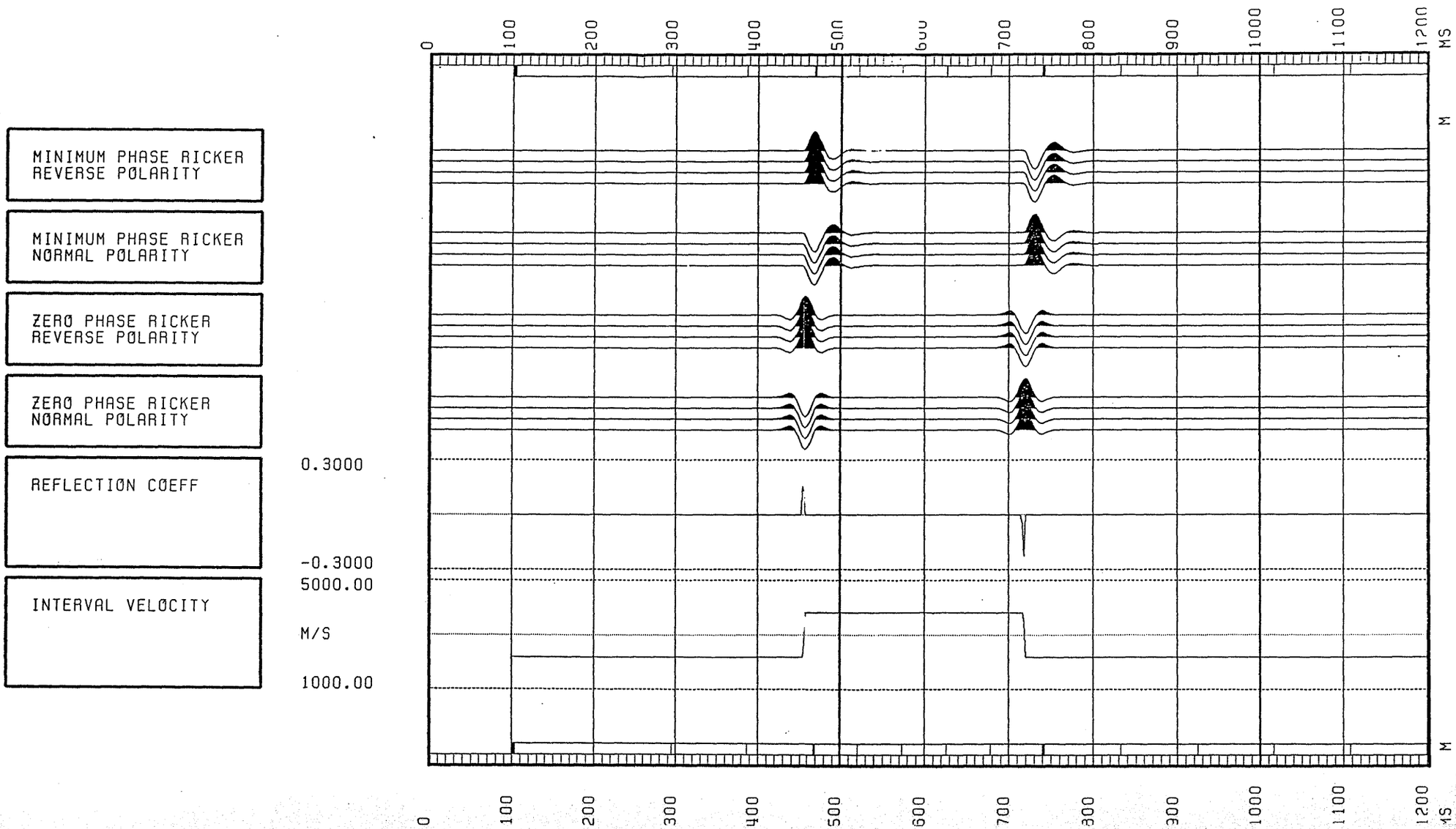
7. Second normal moveout : the correction time in millisecs to be applied to the two way travel time for a specified moveout distance (default = 4500 feet).

8. Third normal moveout : the correction time in millisecs to be applied to the two way travel time for a specified moveout distance (default = 6000 feet).

9. Interval velocity : the velocity between each sampled depth. Typically, the sampling rate is 2 millisecs two way time, (1 millisec one way time) therefore the interval velocity will be equal to the depth increment divided by 0.001. It is equivalent to column 9 from the the Velocity Report.

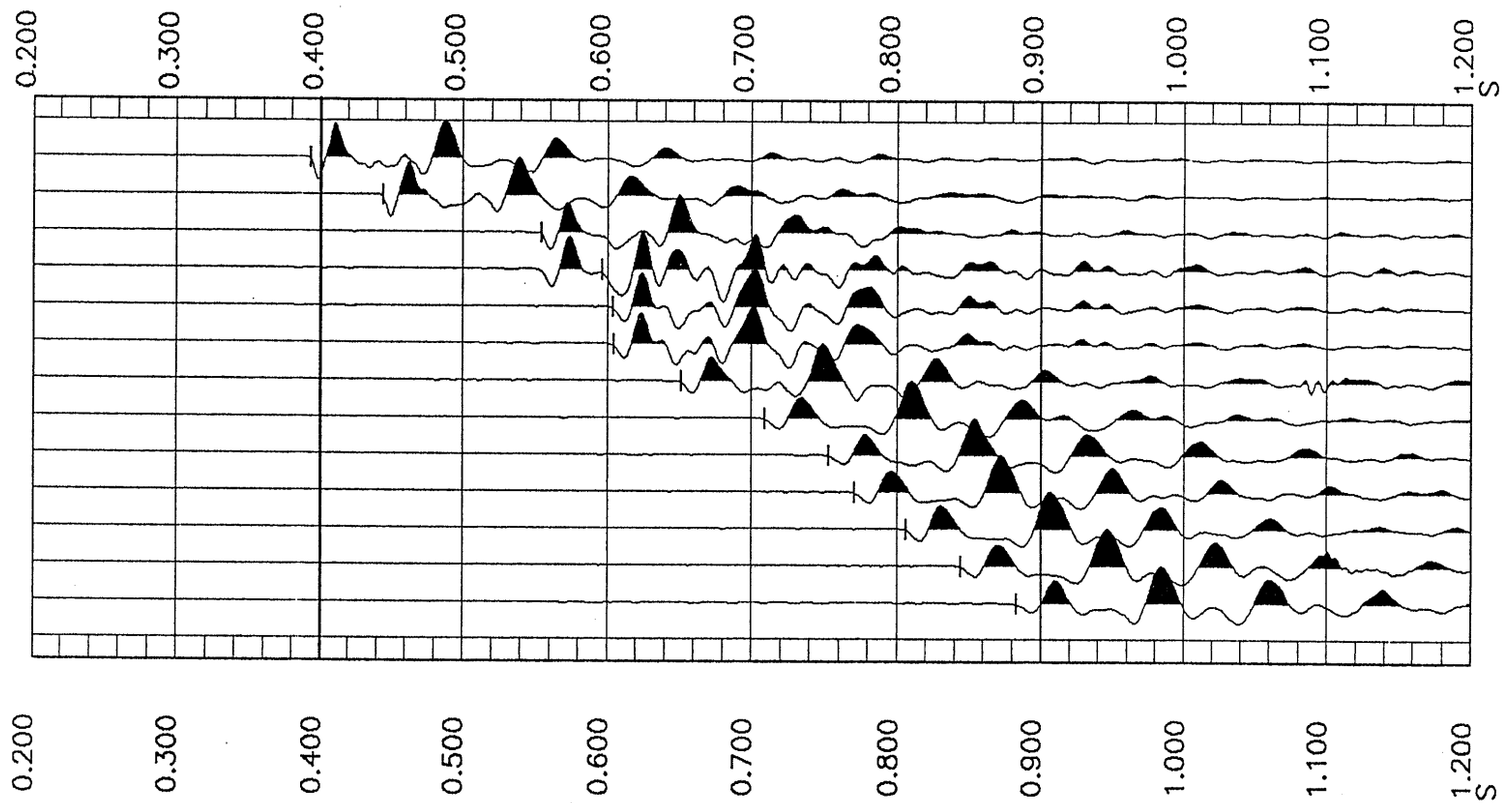
SCHLUMBERGER (SEG-1976) WAVELET POLARITY CONVENTION

Figure 1



2 Stacked Checkshot Data

RAW DEPTH M	TRANSIT TIME S	LEVEL NO
990.0	0.393	13
1134.0	0.444	12
1419.0	0.554	11
1419.1	0.596	10
1555.0	0.604	9
1555.1	0.604	8
1701.0	0.651	7
1891.0	0.709	6
2040.0	0.753	5
2109.0	0.771	4
2245.0	0.806	3
2400.0	0.844	2
2574.0	0.883	1



SHOTS

ANALYST: N.SMITH 8-FEB-89 16:54:23 PROGRAM: GSHOT 007.E08

DEPT. NAT. RES & ENV
PE904966

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*                 *
*   SCHLUMBERGER  *
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GEOPHYSICAL AIRGUN REPORT

COMPANY : ESSO AUSTRALIA LTD.

WELL : HARLEQUIN #1

FIELD : WILDCAT

COUNTRY : AUSTRALIA

REFERENCE: VEA

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*  SCHLUMBERGER   *
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GEOPHYSICAL AIRGUN REPORT

COMPANY : ESSO AUSTRALIA LTD.
WELL : HARLEQUIN #1
FIELD : WILDCAT
COUNTRY : AUSTRALIA
REFERENCE: VEA

LONG DEFINITIONS

GLOBAL

KB - ELEVATION OF THE KELLY-BUSHING ABOVE MSL OR MWL
SRD - ELEVATION OF THE SEISMIC REFERENCE DATUM ABOVE MSL OR MWL
EKB - ELEVATION OF KELLY BUSHING
GL - ELEVATION OF USER'S REFERENCE (GENERALLY GROUND LEVEL) ABOVE SRD
VELHYD - VELOCITY OF THE MEDIUM BETWEEN THE SOURCE AND THE HYDROPHONE
VELSUR - VELOCITY OF THE MEDIUM BETWEEN THE SOURCE AND THE SRD

MATRIX

GUNELZ - SOURCE ELEVATION ABOVE SRD (ONE FOR THE WHOLE JOB; OR ONE PER SHOT)
GUNEWZ - SOURCE DISTANCE FROM THE BOREHOLE AXIS IN EW DIRECTION (CF. GUNELZ)
GUNNSZ - SOURCE DISTANCE FROM THE BOREHOLE AXIS IN NS DIRECTION (CF. GUNELZ)
HYDELZ - HYDROPHONE ELEVATION ABOVE SRD (CF. GUNELZ)
HYDEWZ - HYDROPHONE DISTANCE FROM THE BOREH AXIS IN EW DIRECTION (CF GUNELZ)
HYDNSZ - HYDROPHONE DISTANCE FROM THE BOREH AXIS IN NS DIRECTION (CF GUNELZ)
TRTHYD - TRAVEL TIME FROM THE HYDROPHONE TO THE SOURCE
TRTSRD - TRAVEL TIME FROM THE SOURCE TO THE SRD
DEVWEL - DEVIATED WELL DATA PER SHOT : MEAS. DEPTH, VERT. DEPTH, EW, NS

SAMPLED

SHOT.GSH - SHOT NUMBER
DKB.GSH - MEASURED DEPTH FROM KELLY-BUSHING
DSRD.GSH - DEPTH FROM SRD
DGL.GSH - VERTICAL DEPTH RELATIVE TO GROUND LEVEL (USER'S REFERENCE)
TIMO.GSH - MEASURED TRAVEL TIME FROM HYDROPHONE TO GEOPHONE
TIMV.GSH - VERTICAL TRAVEL TIME FROM THE SOURCE TO THE GEOPHONE
SHTM.GSH - SHOT TIME (WST)
AVGV.GSH - AVERAGE SEISMIC VELOCITY
DELZ.GSH - DEPTH INTERVAL BETWEEN SUCCESSIVE SHOTS
DELT.GSH - TRAVEL TIME INTERVAL BETWEEN SUCCESSIVE SHOTS
INTV.GSH - INTERNAL VELOCITY, AVERAGE

(GLOBAL PARAMETERS)			(VALUE)	
ELEV OF KB AB. MSL (WST)	KB	:	21.0000	M
ELEV OF SRD AB. MSL(WST)	SRD	:	0	M
ELEVATION OF KELLY BUSHI	EKB	:	21.0000	M
ELEV OF GL AB. SRD(WST)	GL	:	-43.0000	M
VEL SOURCE-HYDRO(WST)	VELHYD	:	1500.00	M/S
VEL SOURCE-SRD (WST)	VELSUR	:	1500.00	M/S

(MATRIX PARAMETERS)

	SOURCE ELV M	SOURCE EW M	SOURCE NS M	HYDRO ELEV M	HYDRO EW M	HYDRO NS M
1	-9.10	0	40.00	-9.10	0	40.00

	TRT HYD-SC MS	TRT SC-SRD MS
1	0	6.07

	MD @ KB M	VD @ KB M	VD @ SRD M	E-W COORD M	N-S COORD M
1	200.10	200.10	179.10	0	0
2	990.00	990.00	969.00	0	0
3	1134.00	1134.00	1113.00	0	0
4	1419.00	1419.00	1398.00	0	0
5	1555.00	1555.00	1534.00	0	0
6	1701.00	1701.00	1680.00	0	0
7	1891.00	1891.00	1870.00	0	0
8	2040.00	2040.00	2019.00	0	0
9	2109.00	2109.00	2088.00	0	0
10	2245.00	2245.00	2224.00	0	0
11	2400.00	2400.00	2379.00	0	0
12	2574.00	2574.00	2553.00	0	0

COMPANY : ESSO AUSTRALIA LTD. WELL : HARLEQUIN #1

LEVEL NUMBER	MEASUR DEPTH FROM KB M	VERTIC DEPTH FROM SRD M	VERTIC DEPTH FROM GL M	OBSERV TRAVEL TIME HYD/GEO MS	VERTIC TRAVEL TIME SRC/GEO MS	VERTIC TRAVEL TIME SRD/GEO MS	AVERAGE VELOC SRD/GEO M/S	DELTA DEPTH BETWEEN SHOTS M	DELTA TIME BETWEEN SHOTS MS	INTERV VELOC BETWEEN SHOTS M/S
1	200.10	179.10	136.10	106.00	103.18	109.25	1639			
								789.90	289.27	2731
2	990.00	969.00	926.00	392.79	392.45	398.52	2432			
								144.00	51.37	2803
3	1134.00	1113.00	1070.00	444.11	443.82	449.89	2474			
								285.00	110.01	2591
4	1419.00	1398.00	1355.00	554.06	553.83	559.90	2497			
								136.00	49.54	2745
5	1555.00	1534.00	1491.00	603.58	603.37	609.44	2517			
								146.00	47.20	3093
6	1701.00	1680.00	1637.00	650.76	650.57	656.64	2558			
								190.00	58.39	3254
7	1391.00	1870.00	1827.00	709.13	708.97	715.03	2615			
								149.00	43.60	3417
8	2040.00	2019.00	1976.00	752.72	752.57	758.64	2661			
								69.00	17.99	3836
9	2109.00	2088.00	2045.00	770.70	770.56	776.62	2689			
								136.00	35.54	3827
10	2245.00	2224.00	2181.00	806.23	806.10	812.17	2733			
								155.00	37.83	4097
11	2400.00	2379.00	2336.00	844.05	843.93	850.00	2799			
								174.00	38.97	4465
12	2574.00	2553.00	2510.00	883.01	882.90	883.97	2872			

DRIFT

ANALYST: N.SMITH 8-FEB-89 17:05:40 PROGRAM: GDRIFT 007.E09

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DRIFT COMPUTATION REPORT

COMPANY : ESSO AUSTRALIA LTD.

WELL : HARLEQUIN #1

FIELD : WILDCAT

COUNTRY : AUSTRALIA

REFERENCE: VEA

ANALYST: N.SMITH 8-FEB-89 17:05:40 PROGRAM: GDRIFT 007.E09

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DRIFT COMPUTATION REPORT

COMPANY : ESSO AUSTRALIA LTD.

WELL : HARLEQUIN #1

FIELD : WILDCAT

COUNTRY : AUSTRALIA

REFERENCE: VEA

LONG DEFINITIONS

GLOBAL

KB - ELEVATION OF THE KELLY-BUSHING ABOVE MSL OR MWL
SRD - ELEVATION OF THE SEISMIC REFERENCE DATUM ABOVE MSL OR MWL
EKB - ELEVATION OF KELLY BUSHING
GL - ELEVATION OF USER'S REFERENCE (GENERALLY GROUND LEVEL) ABOVE SRD
XSTART - TOP OF ZONE PROCESSED BY WST
XSTOP - BOTTOM OF ZONE PROCESSED BY WST
GAD001 - RAW SONIC CHANNEL NAME USED FOR WST SONIC ADJUSTMENT
UNFDEN - UNIFORM DENSITY VALUE

ZONE

LOFDEN - LAYER OPTION FLAG FOR DENSITY : -1=NONE; 0=UNIFORM; 1=UNIFORM+LAYER
LAYDEN - USER SUPPLIED DENSITY DATA

SAMPLED

SHOT - SHOT NUMBER
DKB - MEASURED DEPTH FROM KELLY-BUSHING
DSRD - DEPTH FROM SRD
DGL - VERTICAL DEPTH RELATIVE TO GROUND LEVEL (USER'S REFERENCE)
SHTM - SHOT TIME (WST)
RAWS - RAW SONIC (WST)
SHDR - DRIFT AT SHOT OR KNEE
BLSH - BLOCK SHIFT BETWEEN SHOTS OR KNEE

(GLOBAL PARAMETERS)			(VALUE)	
ELEV OF KB AB. MSL (WST)	KB	:	21.0000	M
ELEV OF SRD AB. MSL(WST)	SRD	:	0	M
ELEVATION OF KELLY BUSHI	EKB	:	21.0000	M
ELEV OF GL AB. SRD(WST)	GL	:	-43.0000	M
TOP OF ZONE PROCD (WST)	XSTART	:	0	M
BOT OF ZONE PROCD (WST)	XSTOP	:	0	M
RAW SONIC CH NAME (WST)	GAD001	:	DT.ATT.002.FLP.*	
UNIFORM DENSITY VALUE	UNFDEN	:	2.30000	G/C3

(ZONED PARAMETERS)			(VALUE)		(LIMITS)		
LAYER OPTION FLAG DENS	LOFDEN	:	1.000000		30479.7	-	0
USER SUPPLIED DENSITY DA	LAYDEN	:	-999.2500	G/C3	30479.7	-	0

COMPANY : ESSO AUSTRALIA LTD. WELL : HARLEQUIN #1

LEVEL NUMBER	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	VERTICAL DEPTH FROM GL M	VERTICAL TRAVEL TIME SRD/GEO MS	INTEGRATED RAW SONIC TIME MS	COMPUTED DRIFT AT LEVEL MS	COMPUTED BLK-SHFT CORRECTION US/F
							0
1	200.10	179.10	136.10	109.25	109.25	0	.03
2	990.00	969.00	926.00	398.52	398.45	.07	6.31
3	1134.00	1113.00	1070.00	449.89	446.84	3.05	-4.52
4	1419.00	1398.00	1355.00	559.90	561.08	-1.18	5.57
5	1555.00	1534.00	1491.00	609.44	608.13	1.31	-3.53
6	1701.00	1680.00	1637.00	656.64	657.05	-.41	-1.65
7	1891.00	1870.00	1827.00	715.03	716.47	-1.43	1.02
8	2040.00	2019.00	1976.00	758.64	759.57	-.93	-5.44
9	2109.00	2088.00	2045.00	776.62	778.79	-2.17	-.56
10	2245.00	2224.00	2181.00	812.17	814.58	-2.42	.01
11	2400.00	2379.00	2336.00	850.00	852.41	-2.41	.98
12	2568.85	2547.85	2504.85	887.82	889.68	-1.87	
13	2574.00	2553.00	2510.00	888.97			

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*   SCHLUMBERGER  *
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SONIC ADJUSTMENT PARAMETER REPORT

COMPANY : ESSO AUSTRALIA LTD.
WELL : HARLEQUIN #1
FIELD : WILDCAT
COUNTRY : AUSTRALIA
REFERENCE: VEA

LONG DEFINITIONS

GLOBAL

SRCDRF - ORIGIN OF ADJUSTMENT DATA
CONADJ - CONSTANT ADJUSTMENT TO AUTOMATIC DELTA-T MINIMUM = 7.5 US/F
UNERTH - UNIFORM EARTH VELOCITY (GTRFRM)

ZONE

ZDRIFT - USER DRIFT AT BOTTOM OF THE ZONE
ADJOPZ - TYPE OF ADJUSTMNENT IN THE DRIFT ZONE : 0=DELTA-T MIN, 1=BLOCKSHIFT
ADJUSZ - DELTA-T MINIMUM USED FOR ADJUSTMENT IN THE DRIFT ZONE
LOFVEL - LAYER OPTION FLAG FOR VELOCITY: -1=NONE; 0=UNIFORM; 1=UNIFORM+LAYER
LAYVEL - USER SUPPLIED VELOCITY DATA

SAMPLED

SHOT - SHOT NUMBER
VDKB - VERTICAL DEPTH RELATIVE TO KB
DSRD - DEPTH FROM SRD
DGL - VERTICAL DEPTH RELATIVE TO GROUND LEVEL (USER'S REFERENCE)
KNEE - KNEE
BLSH - BLOCK SHIFT BETWEEN SHOTS OR KNEE
DTMI - VALUE OF DELTA-T MINIMUM USED
COEF - DELTA-T MIN COEFFICIENT USED IN THE DRIFT ZONE
DRGR - GRADIENT OF DRIFT CURVE

(GLOBAL PARAMETERS)		(VALUE)	
ORIG OF ADJ DATA (WST)	SRCDRF	: 2.00000	
CONS SONIC ADJST (WST)	CONADJ	: 7.50000	US/F
UNIFORM EARTH VELOCITY	UNERTH	: 2133.60	M/S

(ZONED PARAMETERS)		(VALUE)		(LIMITS)	
USER DRIFT ZONE (WST)	ZDRIFT	:-2.000000	MS	2574.00	- 2560.10
		-2.000000		2560.00	2245.10
		-2.500000		2245.00	1701.10
		-.2000000		1701.00	990.100
		0		990.000	0
ADJUSMNT MODE (WST)	ADJOPZ	:-999.2500		30479.7	- 0
USER DELTA-T MIN (WST)	ADJUSZ	:-999.2500	US/F	30479.7	- 0
LAYER OPTION FLAG VELOC	LOFVEL	: 1.000000		30479.7	- 0
USER VELOC (WST)	LAYVEL	: 1639.000	M/S	200.100	- 0

KNEE NUMBER	VERTICAL DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	VERTICAL DEPTH FROM GL M	DRIFT AT KNEE MS	BLOCKSHIFT USED US/F	DELTA-T MINIMUM USED US/F	REDUCTION FACTOR G	EQUIVALENT BLOCKSHIFT US/F
					0			0
2	990.00	969.00	926.00	0		103.27	.99	-.09
3	1701.00	1680.00	1637.00	-.20		79.48	.87	-1.29
4	2245.00	2224.00	2181.00	-2.50	.48			.48
5	2560.00	2539.00	2496.00	-2.00	0			0
6	2574.00	2553.00	2510.00	-2.00				

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VELOCITY REPORT

COMPANY : ESSO AUSTRALIA LTD.
WELL : HARLEQUIN #1
FIELD : WILDCAT
COUNTRY : AUSTRALIA
REFERENCE: VEA

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VELOCITY REPORT

COMPANY : ESSO AUSTRALIA LTD.

WELL : HARLEQUIN #1

FIELD : WILDCAT

COUNTRY : AUSTRALIA

REFERENCE: VEA

LONG DEFINITIONS

GLOBAL

KB - ELEVATION OF THE KELLY-BUSHING ABOVE MSL OR MWL
SRD - ELEVATION OF THE SEISMIC REFERENCE DATUM ABOVE MSL OR MWL
EKB - ELEVATION OF KELLY BUSHING
GL - ELEVATION OF USER'S REFERENCE (GENERALLY GROUND LEVEL) ABOVE SRD
UNERTH - UNIFORM EARTH VELOCITY (GTRFRM)

ZONE

LOFVEL - LAYER OPTION FLAG FOR VELOCITY: -1=NONE; 0=UNIFORM; 1=UNIFORM+LAYER
LAYVEL - USER SUPPLIED VELOCITY DATA

SAMPLED

SHOT - SHOT NUMBER
DKB - MEASURED DEPTH FROM KELLY-BUSHING
DSRD - DEPTH FROM SRD
DGL - VERTICAL DEPTH RELATIVE TO GROUND LEVEL (USER'S REFERENCE)
SHTM - SHOT TIME (WST)
ADJS - ADJUSTED SONIC TRAVEL TIME
SHDR - DRIFT AT SHOT OR KNEE
REST - RESIDUAL TRAVEL TIME AT KNEE
INTV - INTERNAL VELOCITY, AVERAGE

(GLOBAL PARAMETERS)			(VALUE)	
ELEV OF KB AB. MSL (WST)	KB	:	21.0000	M
ELEV OF SRD AB. MSL(WST)	SRD	:	0	M
ELEVATION OF KELLY BUSHI	EKB	:	21.0000	M
ELEV OF GL AB. SRD(WST)	GL	:	-43.0000	M
UNIFORM EARTH VELOCITY	UNERTH	:	2133.60	M/S

(ZONED PARAMETERS)			(VALUE)		(LIMITS)		
LAYER OPTION FLAG VELOC	LOFVEL	:	1.000000		30479.7	-	0
USER VELOC (WST)	LAYVEL	:	1639.000	M/S	200.100	-	0

LEVEL NUMBER	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	VERTICAL DEPTH FROM GL M	VERTICAL TRAVEL TIME SRD/GEOPH MS	INTEGRATED ADJUSTED SONIC TIME MS	DRIFT = SHOT TIME - RAW SON MS	RESIDUAL = SHOT TIME - ADJ SON MS	ADJUSTED INTERVAL VELOCITY M/S
1	200.10	179.10	136.10	109.25	109.25	0	0	1639
2	990.00	969.00	926.00	398.52	398.44	.07	.07	2731
3	1134.00	1113.00	1070.00	449.89	446.82	3.05	3.07	2977
4	1419.00	1398.00	1355.00	559.90	560.92	-1.18	-1.03	2498
5	1555.00	1534.00	1491.00	609.44	607.95	1.31	1.49	2892
6	1701.00	1680.00	1637.00	656.64	656.84	-.41	-.20	2986
7	1891.00	1870.00	1827.00	715.03	714.95	-1.43	.08	3270
8	2040.00	2019.00	1976.00	758.64	757.47	-.93	1.17	3504
9	2109.00	2088.00	2045.00	776.62	776.48	-2.17	.15	3631
10	2245.00	2224.00	2181.00	812.17	812.08	-2.42	.09	3820
11	2400.00	2379.00	2336.00	850.00	850.14	-2.41	-.15	4072
12	2568.85	2547.85	2504.85	887.82	887.68	-1.87	.14	4499
13	2574.00	2553.00	2510.00	888.97	888.80		.17	4597

TIME / DEPTH

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TIME CONVERTED VELOCITY REPORT

COMPANY : ESSO AUSTRALIA LTD.
WELL : HARLEQUIN #1
FIELD : WILDCAT
COUNTRY : AUSTRALIA
REFERENCE: VEA

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TIME CONVERTED VELOCITY REPORT

COMPANY : ESSO AUSTRALIA LTD.

WELL : HARLEQUIN #1

FIELD : WILDCAT

COUNTRY : AUSTRALIA

REFERENCE: VEA

LONG DEFINITIONS

GLOBAL

KB - ELEVATION OF THE KELLY-BUSHING ABOVE MSL OR MWL
SRD - ELEVATION OF THE SEISMIC REFERENCE DATUM ABOVE MSL OR MWL
GL - ELEVATION OF USER'S REFERENCE (GENERALLY GROUND LEVEL) ABOVE SRD
UNERTH - UNIFORM EARTH VELOCITY (GTRFRM)
UNFDEN - UNIFORM DENSITY VALUE

MATRIX

MVODIS - MOVE-OUT DISTANCE FROM BOREHOLE

ZONE

LOFVEL - LAYER OPTION FLAG FOR VELOCITY: -1=NONE; 0=UNIFORM; 1=UNIFORM+LAYER
LAYVEL - USER SUPPLIED VELOCITY DATA
LOFDEN - LAYER OPTION FLAG FOR DENSITY : -1=NONE; 0=UNIFORM; 1=UNIFORM+LAYER
LAYDEN - USER SUPPLIED DENSITY DATA

SAMPLED

TWOT - TWO WAY TRAVEL TIME (RELATIVE TO THE SEISMIC REFERENCE
DKE - MEASURED DEPTH FROM KELLY-BUSHING
DSRD - DEPTH FROM SRD
AVGV - AVERAGE SEISMIC VELOCITY
RMSV - ROOT MEAN SQUARE VELOCITY (SEISMIC)
MVOT - NORMAL MOVE-OUT
MVCT - NORMAL MOVE-OUT
MVCT - NORMAL MOVE-OUT
INTV - INTERNAL VELOCITY, AVERAGE

(GLOBAL PARAMETERS)			(VALUE)	
ELEV OF KB AB. MSL (WST)	KB	:	21.0000	M
ELEV OF SRD AB. MSL(WST)	SRD	:	0	M
ELEV OF GL AB. SRD(WST)	GL	:	-43.0000	M
UNIFORM EARTH VELOCITY	UNERTH	:	2133.60	M/S
UNIFORM DENSITY VALUE	UNFDEN	:	2.30000	G/C3

(MATRIX PARAMETERS)

	MVOUT DIST M
1	914.4
2	1371.6
3	1828.8

(ZONED PARAMETERS)

		(VALUE)		(LIMITS)		
AYER OPTION FLAG VELOC	LOFVEL	: 1.000000		30479.7	-	0
SER VELOC (WST)	LAYVEL	: 1639.000	M/S	200.100	-	0
AYER OPTION FLAG DENS	LOFDEN	:-1.000000		30479.7	-	0
SER SUPPLIED DENSITY DA	LAYDEN	:-999.2500	G/C3	30479.7	-	0

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
								1639
0	21.00	0						1639
2.00	22.64	1.64	1639	1639	555.90	834.85	1113.80	1639
4.00	24.28	3.28	1639	1639	553.92	832.86	1111.81	1639
6.00	25.92	4.92	1639	1639	551.93	830.87	1109.82	1639
8.00	27.56	6.56	1639	1639	549.96	828.89	1107.83	1639
10.00	29.20	8.20	1639	1639	547.99	826.91	1105.85	1639
12.00	30.83	9.83	1639	1639	546.03	824.94	1103.87	1639
14.00	32.47	11.47	1639	1639	544.08	822.97	1101.89	1639
16.00	34.11	13.11	1639	1639	542.13	821.00	1099.92	1639
18.00	35.75	14.75	1639	1639	540.19	819.05	1097.95	1639
20.00	37.39	16.39	1639	1639	538.26	817.09	1095.98	1639
22.00	39.03	18.03	1639	1639	536.33	815.14	1094.02	1639
24.00	40.67	19.67	1639	1639	534.42	813.20	1092.06	1639
26.00	42.31	21.31	1639	1639	532.51	811.26	1090.11	1639
28.00	43.95	22.95	1639	1639	530.60	809.32	1088.15	1639
30.00	45.59	24.59	1639	1639	528.71	807.39	1086.21	1639
32.00	47.22	26.22	1639	1639	526.82	805.46	1084.26	1639
34.00	48.86	27.86	1639	1639	524.94	803.54	1082.32	1639
36.00	50.50	29.50	1639	1639	523.06	801.63	1080.38	1639
38.00	52.14	31.14	1639	1639	521.19	799.71	1078.45	1639
40.00	53.78	32.78	1639	1639	519.33	797.81	1076.52	1639
42.00	55.42	34.42	1639	1639	517.48	795.91	1074.59	1639
44.00	57.06	36.06	1639	1639	515.63	794.01	1072.67	1639
46.00	58.70	37.70	1639	1639	513.79	792.12	1070.75	

COMPANY : ESSO AUSTRALIA LTD. WELL : HARLEQUIN #1

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TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
48.00	60.34	39.34	1639	1639	511.96	790.23	1068.83	1639
50.00	61.98	40.98	1639	1639	510.14	738.34	1066.92	1639
52.00	63.61	42.61	1639	1639	508.32	786.47	1065.01	1639
54.00	65.25	44.25	1639	1639	506.51	784.59	1063.11	1639
56.00	66.89	45.89	1639	1639	504.70	782.72	1061.21	1639
58.00	68.53	47.53	1639	1639	502.91	780.86	1059.31	1639
60.00	70.17	49.17	1639	1639	501.12	779.00	1057.41	1639
62.00	71.81	50.81	1639	1639	499.34	777.15	1055.52	1639
64.00	73.45	52.45	1639	1639	497.56	775.30	1053.64	1639
66.00	75.09	54.09	1639	1639	495.79	773.45	1051.75	1639
68.00	76.73	55.73	1639	1639	494.03	771.61	1049.87	1639
70.00	78.37	57.36	1639	1639	492.28	769.77	1048.00	1639
72.00	80.00	59.00	1639	1639	490.53	767.94	1046.12	1639
74.00	81.64	60.64	1639	1639	488.79	766.12	1044.25	1639
76.00	83.28	62.28	1639	1639	487.05	764.30	1042.39	1639
78.00	84.92	63.92	1639	1639	485.33	762.48	1040.53	1639
80.00	86.56	65.56	1639	1639	483.61	760.67	1038.67	1639
82.00	88.20	67.20	1639	1639	481.90	758.86	1036.81	1639
84.00	89.84	68.84	1639	1639	480.19	757.06	1034.96	1639
86.00	91.48	70.48	1639	1639	478.49	755.26	1033.11	1639
88.00	93.12	72.12	1639	1639	476.80	753.47	1031.27	1639
90.00	94.76	73.76	1639	1639	475.11	751.68	1029.43	1639
92.00	96.39	75.39	1639	1639	473.44	749.89	1027.59	1639
94.00	98.03	77.03	1639	1639	471.76	748.11	1025.75	1639

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
96.00	99.67	78.67	1639	1639	470.10	746.34	1023.92	1639
98.00	101.31	80.31	1639	1639	468.44	744.57	1022.10	1639
100.00	102.95	81.95	1639	1639	466.79	742.81	1020.27	1639
102.00	104.59	83.59	1639	1639	465.15	741.04	1018.45	1639
104.00	106.23	85.23	1639	1639	463.51	739.29	1016.64	1639
106.00	107.87	86.87	1639	1639	461.88	737.54	1014.83	1639
108.00	109.51	88.51	1639	1639	460.26	735.79	1013.02	1639
110.00	111.15	90.15	1639	1639	458.64	734.05	1011.21	1639
112.00	112.78	91.78	1639	1639	457.03	732.31	1009.41	1639
114.00	114.42	93.42	1639	1639	455.43	730.58	1007.61	1639
116.00	116.06	95.06	1639	1639	453.83	728.85	1005.82	1639
118.00	117.70	96.70	1639	1639	452.24	727.13	1004.02	1639
120.00	119.34	98.34	1639	1639	450.66	725.41	1002.24	1639
122.00	120.98	99.98	1639	1639	449.08	723.70	1000.45	1639
124.00	122.62	101.62	1639	1639	447.52	721.99	998.67	1639
126.00	124.26	103.26	1639	1639	445.95	720.28	996.89	1639
128.00	125.90	104.90	1639	1639	444.40	718.58	995.12	1639
130.00	127.53	106.53	1639	1639	442.85	716.89	993.35	1639
132.00	129.17	108.17	1639	1639	441.30	715.20	991.58	1639
134.00	130.81	109.81	1639	1639	439.77	713.51	989.82	1639
136.00	132.45	111.45	1639	1639	438.24	711.83	988.06	1639
138.00	134.09	113.09	1639	1639	436.72	710.15	986.30	1639
140.00	135.73	114.73	1639	1639	435.20	708.48	984.55	1639
142.00	137.37	116.37	1639	1639	433.69	706.81	982.80	1639

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
144.00	139.01	118.01	1639	1639	432.19	705.15	981.06	1639
146.00	140.65	119.65	1639	1639	430.69	703.49	979.31	1639
148.00	142.29	121.29	1639	1639	429.20	701.84	977.57	1639
150.00	143.93	122.93	1639	1639	427.71	700.19	975.84	1639
152.00	145.56	124.56	1639	1639	426.24	698.54	974.11	1639
154.00	147.20	126.20	1639	1639	424.77	696.90	972.38	1639
156.00	148.84	127.84	1639	1639	423.30	695.27	970.65	1639
158.00	150.48	129.48	1639	1639	421.84	693.64	968.93	1639
160.00	152.12	131.12	1639	1639	420.39	692.01	967.22	1639
162.00	153.76	132.76	1639	1639	418.95	690.39	965.50	1639
164.00	155.40	134.40	1639	1639	417.51	688.77	963.79	1639
166.00	157.04	136.04	1639	1639	416.07	687.16	962.08	1639
168.00	158.68	137.68	1639	1639	414.65	685.55	960.38	1639
170.00	160.32	139.32	1639	1639	413.23	683.94	958.68	1639
172.00	161.95	140.95	1639	1639	411.81	682.34	956.98	1639
174.00	163.59	142.59	1639	1639	410.41	680.75	955.29	1639
176.00	165.23	144.23	1639	1639	409.00	679.16	953.60	1639
178.00	166.87	145.87	1639	1639	407.61	677.57	951.91	1639
180.00	168.51	147.51	1639	1639	406.22	675.99	950.23	1639
182.00	170.15	149.15	1639	1639	404.84	674.41	948.55	1639
184.00	171.79	150.79	1639	1639	403.46	672.84	946.87	1639
186.00	173.43	152.43	1639	1639	402.09	671.27	945.20	1639
188.00	175.07	154.07	1639	1639	400.73	669.71	943.53	1639
190.00	176.70	155.70	1639	1639	399.37	668.15	[illegible]	1639

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
								1639
192.00	178.34	157.34	1639	1639	398.01	666.59	940.20	1639
194.00	179.98	158.98	1639	1639	396.67	665.04	938.54	1639
196.00	181.62	160.62	1639	1639	395.33	663.50	936.89	1639
198.00	183.26	162.26	1639	1639	393.99	661.96	935.23	1639
200.00	184.90	163.90	1639	1639	392.67	660.42	933.58	1639
202.00	186.54	165.54	1639	1639	391.34	658.89	931.94	1639
204.00	188.18	167.18	1639	1639	390.03	657.36	930.30	1639
206.00	189.82	168.82	1639	1639	388.72	655.83	928.66	1639
208.00	191.46	170.46	1639	1639	387.41	654.31	927.02	1639
210.00	193.09	172.09	1639	1639	386.12	652.80	925.39	1639
212.00	194.73	173.73	1639	1639	384.82	651.29	923.76	1639
214.00	196.37	175.37	1639	1639	383.54	649.78	922.14	1639
216.00	198.01	177.01	1639	1639	382.26	648.28	920.52	1639
218.00	199.65	178.65	1639	1639	380.98	646.78	918.90	2080
220.00	201.73	180.73	1643	1644	378.28	643.05	914.26	2258
222.00	203.99	182.99	1649	1650	374.96	638.36	908.31	2288
224.00	206.28	185.28	1654	1657	371.61	633.59	902.26	2219
226.00	208.50	187.50	1659	1663	368.58	629.33	896.88	2313
228.00	210.81	189.81	1665	1669	365.27	624.62	890.90	2327
230.00	213.14	192.14	1671	1676	361.99	619.93	884.94	2246
232.00	215.38	194.38	1676	1682	359.06	615.79	879.72	1984
234.00	217.37	196.37	1678	1685	357.01	613.03	876.37	1733
236.00	219.10	198.10	1679	1685	355.69	611.40	874.53	2105
238.00	221.20	200.20	1682	1689	353.32	608.13	870.47	

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
								2201
240.00	223.40	202.40	1687	1694	350.70	604.44	865.84	2172
242.00	225.58	204.58	1691	1699	348.21	600.96	861.49	2178
244.00	227.75	206.75	1695	1703	345.74	597.50	857.17	2184
246.00	229.94	208.94	1699	1708	343.30	594.08	852.89	2179
248.00	232.12	211.12	1703	1712	340.91	590.73	848.71	2165
250.00	234.28	213.28	1706	1716	338.60	587.49	844.67	2233
252.00	236.51	215.51	1710	1721	336.13	584.00	840.29	2220
254.00	238.73	217.73	1714	1725	333.74	580.63	836.06	2227
256.00	240.96	219.96	1718	1730	331.38	577.28	831.86	2212
258.00	243.17	222.17	1722	1734	329.09	574.05	827.81	2180
260.00	245.35	224.35	1726	1738	326.91	570.99	824.01	2157
262.00	247.51	226.51	1729	1741	324.83	568.08	820.39	2220
264.00	249.73	228.73	1733	1746	322.62	564.95	816.47	2225
266.00	251.95	230.95	1737	1750	320.43	561.85	812.58	2192
268.00	254.15	233.15	1740	1753	318.36	558.92	808.93	2126
270.00	256.27	235.27	1743	1756	316.47	556.29	805.68	2258
272.00	258.53	237.53	1747	1761	314.29	553.18	801.77	2295
274.00	260.83	239.83	1751	1765	312.05	549.97	797.72	2241
276.00	263.07	242.07	1754	1769	309.98	547.02	794.02	2250
278.00	265.32	244.32	1758	1773	307.92	544.08	790.33	2251
280.00	267.57	246.57	1761	1777	305.88	541.17	786.69	2298
282.00	269.87	248.87	1765	1781	303.77	538.14	782.86	2279
284.00	272.14	251.14	1769	1785	301.73	535.21	779.18	2322
286.00	274.47	253.47	1772	1789	299.62	532.17	775.33	

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
								2308
288.00	276.77	255.77	1776	1793	297.58	529.22	771.61	
								2324
290.00	279.10	258.10	1780	1798	295.53	526.26	767.87	
								2260
292.00	281.36	260.36	1783	1801	293.65	523.56	764.48	
								2216
294.00	283.57	262.57	1786	1804	291.89	521.04	761.34	
								2289
296.00	285.86	264.86	1790	1808	289.99	518.31	757.90	
								2155
298.00	288.02	267.02	1792	1811	288.39	516.05	755.10	
								2222
300.00	290.24	269.24	1795	1814	286.68	513.60	752.04	
								2292
302.00	292.53	271.53	1798	1817	284.86	510.95	748.71	
								2254
304.00	294.79	273.79	1801	1820	283.13	508.46	745.58	
								2263
306.00	297.05	276.05	1804	1824	281.40	505.97	742.45	
								2301
308.00	299.35	278.35	1807	1827	279.63	503.39	739.20	
								2292
310.00	301.64	280.64	1811	1831	277.89	500.87	736.03	
								2310
312.00	303.95	282.95	1814	1834	276.15	498.33	732.82	
								2325
314.00	306.28	285.28	1817	1838	274.40	495.77	729.58	
								2268
316.00	308.55	287.55	1820	1841	272.77	493.42	726.62	
								2331
318.00	310.88	289.88	1823	1844	271.06	490.90	723.43	
								2344
320.00	313.22	292.22	1826	1848	269.34	488.38	720.23	
								2322
322.00	315.54	294.54	1829	1851	267.68	485.95	717.16	
								2334
324.00	317.88	296.88	1833	1854	266.03	483.52	714.08	
								2357
326.00	320.23	299.23	1836	1858	264.35	481.04	710.94	
								2335
328.00	322.57	301.57	1839	1861	262.74	478.66	707.92	
								2366
330.00	324.94	303.94	1842	1865	261.09	476.23	704.83	
								2394
332.00	327.33	306.33	1845	1868	259.42	473.74	701.65	
								2453
334.00	329.78	308.78	1849	1872	257.67	471.13	698.30	

COMPANY : ESSO AUSTRALIA LTD. WELL : HARLEQUIN #1

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
336.00	332.18	311.18	1852	1876	256.05	468.70	695.21	2394
338.00	334.61	313.61	1856	1880	254.38	466.22	692.02	2429
340.00	337.00	316.00	1859	1883	252.80	463.85	689.00	2396
342.00	339.48	318.48	1862	1887	251.10	461.29	685.70	2479
344.00	341.92	320.92	1866	1891	249.49	458.87	682.61	2436
346.00	344.34	323.34	1869	1894	247.92	456.50	679.57	2429
348.00	346.77	325.77	1872	1898	246.37	454.17	676.58	2425
350.00	349.26	328.26	1876	1902	244.74	451.70	673.40	2491
352.00	351.72	330.72	1879	1905	243.18	449.35	670.38	2456
354.00	354.20	333.20	1882	1909	241.61	446.96	667.29	2483
356.00	356.68	335.68	1886	1913	240.06	444.62	664.23	2475
358.00	359.13	338.13	1889	1916	238.57	442.34	661.35	2459
360.00	361.64	340.64	1892	1920	237.02	439.99	658.30	2504
362.00	364.15	343.15	1896	1924	235.49	437.64	655.27	2509
364.00	366.69	345.69	1899	1928	233.94	435.27	652.19	2537
366.00	369.23	348.23	1903	1931	232.40	432.90	649.11	2546
368.00	371.77	350.77	1906	1935	230.88	430.57	646.09	2542
370.00	374.30	353.30	1910	1939	229.40	428.28	643.13	2532
372.00	376.81	355.81	1913	1943	227.97	426.08	640.27	2509
374.00	379.18	358.18	1915	1945	226.73	424.21	637.88	2367
376.00	381.74	360.74	1919	1949	225.27	421.94	634.93	2553
378.00	384.28	363.28	1922	1952	223.85	419.74	632.07	2542
380.00	386.82	365.82	1925	1956	222.44	417.56	629.23	2543
382.00	389.30	368.30	1928	1959	221.13	415.55	626.62	2477

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
384.00	391.85	370.85	1932	1963	219.75	413.40	623.82	2550
386.00	394.46	373.46	1935	1967	218.31	411.14	620.87	2613
388.00	397.03	376.03	1938	1970	216.94	409.00	618.07	2570
390.00	399.45	378.45	1941	1973	215.77	407.20	615.74	2417
392.00	402.04	381.04	1944	1976	214.40	405.06	612.94	2590
394.00	404.60	383.60	1947	1980	213.10	403.02	610.28	2555
396.00	407.19	386.19	1950	1983	211.77	400.94	607.55	2583
398.00	409.77	388.77	1954	1987	210.47	398.89	604.87	2582
400.00	412.33	391.33	1957	1990	209.21	396.90	602.27	2561
402.00	414.89	393.89	1960	1993	207.96	394.94	599.70	2559
404.00	417.44	396.44	1963	1996	206.74	393.02	597.19	2549
406.00	419.99	398.99	1965	1999	205.54	391.12	594.70	2549
408.00	422.61	401.61	1969	2003	204.26	389.10	592.04	2624
410.00	425.23	404.23	1972	2006	203.01	387.12	589.42	2618
412.00	427.87	406.87	1975	2010	201.75	385.11	586.77	2642
414.00	430.52	409.52	1978	2014	200.50	383.10	584.12	2652
416.00	433.28	412.28	1982	2018	199.14	380.92	581.21	2761
418.00	436.09	415.09	1986	2022	197.75	378.68	578.22	2805
420.00	438.85	417.85	1990	2027	196.43	376.54	575.37	2764
422.00	441.56	420.56	1993	2030	195.19	374.54	572.71	2704
424.00	444.34	423.34	1997	2035	193.88	372.41	569.87	2786
426.00	446.88	425.88	1999	2037	192.83	370.73	567.66	2541
428.00	449.38	428.38	2002	2040	191.82	369.13	565.55	2503
430.00	452.19	431.19	2006	2044	190.53	367.03	562.74	2809

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
432.00	454.84	433.84	2009	2047	189.41	365.22	560.34	2643
434.00	457.54	436.54	2012	2051	188.27	363.36	557.86	2694
436.00	460.39	439.39	2016	2055	186.98	361.25	555.02	2856
438.00	463.41	442.41	2020	2060	185.55	358.88	551.80	3016
440.00	466.26	445.26	2024	2065	184.30	356.83	549.04	2853
442.00	469.18	448.18	2028	2069	183.01	354.69	546.15	2915
444.00	472.22	451.22	2033	2075	181.61	352.37	542.99	3043
446.00	475.13	454.13	2036	2079	180.36	350.30	540.19	2909
448.00	478.23	457.23	2041	2085	178.95	347.94	536.97	3100
450.00	480.82	459.82	2044	2087	178.01	346.41	534.93	2593
452.00	483.30	462.30	2046	2089	177.17	345.05	533.14	2482
454.00	486.25	465.25	2050	2094	175.95	343.02	530.38	2943
456.00	488.75	467.75	2052	2096	175.11	341.65	528.57	2505
458.00	491.43	470.43	2054	2099	174.14	340.06	526.44	2676
460.00	494.60	473.60	2059	2105	172.76	337.73	523.23	3170
462.00	497.47	476.47	2063	2108	171.66	335.89	520.74	2871
464.00	500.33	479.33	2066	2112	170.59	334.10	518.31	2858
466.00	503.17	482.17	2069	2116	169.54	332.35	515.94	2841
468.00	505.91	484.91	2072	2119	168.59	330.77	513.79	2738
470.00	508.85	487.85	2076	2123	167.48	328.90	511.25	2947
472.00	511.67	490.67	2079	2127	166.50	327.25	509.00	2815
474.00	514.44	493.44	2082	2130	165.55	325.66	506.85	2773
476.00	517.15	496.15	2085	2132	164.66	324.17	504.84	2713
478.00	519.73	498.73	2087	2135	163.87	322.87	503.09	2578

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
480.00	522.17	501.17	2088	2136	163.18	321.73	501.58	2443
482.00	524.86	503.86	2091	2139	162.33	320.31	499.66	2686
484.00	527.37	506.37	2092	2140	161.60	319.11	498.06	2510
486.00	529.99	508.99	2095	2142	160.82	317.80	496.30	2614
488.00	532.92	511.92	2098	2146	159.82	316.10	493.96	2934
490.00	535.98	514.98	2102	2151	158.74	314.26	491.42	3055
492.00	538.55	517.55	2104	2153	158.01	313.03	489.77	2576
494.00	541.49	520.49	2107	2156	157.05	311.38	487.50	2936
496.00	544.59	523.59	2111	2161	155.97	309.53	484.92	3106
498.00	547.28	526.28	2114	2163	155.19	308.22	483.14	2685
500.00	549.89	528.89	2116	2165	154.47	307.00	481.49	2611
502.00	552.65	531.65	2118	2168	153.67	305.63	479.62	2756
504.00	555.44	534.44	2121	2171	152.85	304.23	477.70	2791
506.00	558.34	537.34	2124	2174	151.96	302.71	475.60	2907
508.00	561.10	540.10	2126	2177	151.18	301.38	473.78	2751
510.00	564.13	543.13	2130	2181	150.24	299.74	471.50	3031
512.00	567.25	546.25	2134	2185	149.24	298.00	469.08	3122
514.00	570.61	549.61	2139	2191	148.09	295.98	466.24	3360
516.00	573.69	552.69	2142	2195	147.15	294.34	463.95	3082
518.00	576.94	555.94	2146	2200	146.11	292.52	461.39	3247
520.00	579.92	558.92	2150	2204	145.25	291.03	459.31	2982
522.00	582.57	561.57	2152	2206	144.60	289.90	457.77	2653
524.00	585.46	564.46	2154	2209	143.82	288.55	455.90	2882
526.00	588.14	567.14	2156	2211	143.16	287.41	454.33	2686

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
528.00	590.76	569.76	2158	2212	142.53	286.34	452.87	2622
530.00	593.16	572.16	2159	2213	142.02	285.48	451.71	2402
532.00	596.29	575.29	2163	2217	141.13	283.90	449.50	3127
534.00	599.36	578.36	2166	2221	140.28	282.41	447.40	3066
536.00	602.51	581.51	2170	2225	139.40	280.85	445.20	3147
538.00	605.61	584.61	2173	2229	138.55	279.35	443.09	3103
540.00	608.79	587.79	2177	2233	137.66	277.78	440.87	3181
542.00	611.67	590.67	2180	2236	136.96	276.54	439.14	2883
544.00	614.48	593.48	2182	2239	136.29	275.37	437.52	2810
546.00	616.74	595.74	2182	2239	135.88	274.69	436.61	2259
548.00	619.63	598.63	2185	2241	135.19	273.47	434.90	2887
550.00	622.29	601.29	2187	2243	134.62	272.46	433.51	2664
552.00	625.01	604.01	2188	2245	134.02	271.42	432.06	2720
554.00	627.96	606.96	2191	2248	133.31	270.17	430.30	2946
556.00	630.72	609.72	2193	2250	132.71	269.10	428.81	2764
558.00	633.66	612.66	2196	2253	132.02	267.88	427.10	2939
560.00	636.14	615.14	2197	2254	131.55	267.07	425.98	2476
562.00	638.94	617.94	2199	2256	130.94	265.99	424.48	2796
564.00	641.65	620.65	2201	2258	130.38	265.00	423.09	2714
566.00	644.62	623.62	2204	2260	129.70	263.79	421.38	2972
568.00	647.74	626.74	2207	2264	128.96	262.45	419.48	3115
570.00	650.73	629.73	2210	2267	128.28	261.25	417.77	2990
572.00	653.73	632.73	2212	2270	127.61	260.04	416.06	3004
574.00	656.67	635.67	2215	2273	126.97	258.90	414.45	2941

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
576.00	659.57	638.57	2217	2275	126.36	257.81	412.90	2897
578.00	662.45	641.45	2220	2277	125.76	256.74	411.39	2882
580.00	665.35	644.35	2222	2280	125.16	255.66	409.86	2898
582.00	668.11	647.11	2224	2282	124.63	254.71	408.52	2757
584.00	670.88	649.88	2226	2284	124.09	253.74	407.16	2776
586.00	673.74	652.74	2228	2286	123.52	252.72	405.71	2862
588.00	676.44	655.44	2229	2287	123.02	251.83	404.47	2697
590.00	679.32	658.32	2232	2290	122.46	250.81	403.02	2878
592.00	682.31	661.31	2234	2292	121.85	249.71	401.44	2995
594.00	685.30	664.30	2237	2295	121.25	248.62	399.88	2987
596.00	688.22	667.22	2239	2297	120.68	247.59	398.41	2924
598.00	691.22	670.22	2242	2300	120.08	246.51	396.86	2999
600.00	694.29	673.29	2244	2303	119.46	245.38	395.25	3068
602.00	697.49	676.49	2247	2307	118.80	244.15	393.48	3199
604.00	700.45	679.45	2250	2309	118.24	243.13	392.02	2957
606.00	703.44	682.44	2252	2312	117.67	242.10	390.54	2987
608.00	706.45	685.45	2255	2314	117.10	241.05	389.03	3016
610.00	709.40	688.40	2257	2317	116.55	240.06	387.61	2953
612.00	712.47	691.47	2260	2320	115.97	238.99	386.06	3069
614.00	715.58	694.58	2262	2323	115.38	237.90	384.49	3105
616.00	718.57	697.57	2265	2325	114.84	236.91	383.06	2992
618.00	721.63	700.63	2267	2328	114.28	235.88	381.57	3056
620.00	724.58	703.58	2270	2330	113.76	234.93	380.20	2952
622.00	727.59	706.59	2272	2333	113.22	233.94	378.78	3016

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
624.00	730.66	709.66	2275	2335	112.67	232.93	377.31	3064
626.00	733.62	712.62	2277	2338	112.17	232.00	375.97	2957
628.00	736.63	715.63	2279	2340	111.65	231.03	374.57	3016
630.00	739.66	718.66	2281	2343	111.12	230.07	373.17	3033
632.00	742.73	721.73	2284	2345	110.59	229.09	371.75	3066
634.00	745.63	724.63	2286	2347	110.12	228.22	370.50	2902
636.00	748.66	727.66	2288	2350	109.62	227.29	369.14	3023
638.00	751.65	730.65	2290	2352	109.13	226.38	367.82	2992
640.00	754.71	733.71	2293	2354	108.62	225.43	366.44	3065
642.00	757.71	736.71	2295	2357	108.14	224.53	365.13	2994
644.00	760.98	739.98	2298	2360	107.56	223.46	363.56	3269
646.00	764.17	743.17	2301	2363	107.02	222.44	362.07	3195
648.00	767.22	746.22	2303	2366	106.53	221.53	360.74	3051
650.00	770.40	749.40	2306	2369	106.01	220.55	359.30	3175
652.00	773.55	752.55	2308	2371	105.50	219.59	357.90	3149
654.00	776.53	755.53	2311	2373	105.04	218.74	356.66	2988
656.00	779.43	758.43	2312	2375	104.62	217.96	355.52	2892
658.00	782.24	761.24	2314	2377	104.23	217.23	354.46	2819
660.00	785.02	764.02	2315	2378	103.85	216.52	353.43	2780
662.00	787.57	766.57	2316	2378	103.53	215.95	352.61	2545
664.00	790.21	769.21	2317	2379	103.20	215.32	351.71	2643
666.00	792.86	771.86	2318	2380	102.86	214.70	350.81	2648
668.00	795.93	774.93	2320	2383	102.40	213.84	349.55	3072
670.00	798.68	777.68	2321	2384	102.04	213.17	348.58	2743

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
672.00	801.65	780.65	2323	2386	101.62	212.38	347.42	2975
674.00	804.82	783.82	2326	2388	101.14	211.47	346.08	3173
676.00	807.72	786.72	2328	2390	100.75	210.74	345.00	2897
678.00	810.74	789.74	2330	2392	100.33	209.94	343.82	3024
680.00	813.80	792.80	2332	2394	99.90	209.12	342.62	3058
682.00	816.77	795.77	2334	2396	99.49	208.36	341.50	2967
684.00	819.65	798.65	2335	2398	99.12	207.65	340.47	2883
686.00	822.60	801.60	2337	2400	98.73	206.92	339.38	2945
688.00	825.99	804.99	2340	2403	98.21	205.93	337.91	3388
690.00	828.97	807.97	2342	2405	97.82	205.18	336.80	2987
692.00	832.20	811.20	2345	2408	97.36	204.31	335.50	3229
694.00	834.85	813.85	2345	2409	97.06	203.74	334.68	2645
696.00	837.65	816.65	2347	2410	96.72	203.11	333.74	2804
698.00	840.13	819.13	2347	2410	96.46	202.63	333.05	2480
700.00	842.58	821.58	2347	2410	96.21	202.16	332.38	2448
702.00	845.38	824.38	2349	2411	95.88	201.53	331.46	2805
704.00	848.08	827.08	2350	2412	95.57	200.96	330.61	2701
706.00	851.05	830.05	2351	2414	95.21	200.26	329.58	2966
708.00	853.78	832.78	2352	2415	94.90	199.67	328.72	2731
710.00	856.75	835.75	2354	2417	94.53	198.98	327.69	2971
712.00	859.81	838.81	2356	2419	94.15	198.24	326.59	3059
714.00	862.58	841.58	2357	2420	93.84	197.65	325.72	2771
716.00	865.36	844.36	2359	2421	93.53	197.06	324.85	2779
718.00	868.27	847.26	2360	2422	93.19	196.42	323.90	2904

COMPANY : ESSO AUSTRALIA LTD. WELL : HARLEQUIN #1

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
720.00	871.22	850.22	2362	2424	92.84	195.75	322.90	2957
722.00	873.74	852.74	2362	2424	92.59	195.29	322.22	2522
724.00	876.13	855.13	2362	2424	92.37	194.87	321.63	2390
726.00	878.59	857.59	2363	2424	92.14	194.44	320.99	2457
728.00	881.50	860.50	2364	2426	91.81	193.81	320.06	2907
730.00	884.26	863.26	2365	2427	91.52	193.25	319.22	2764
732.00	886.94	865.94	2366	2427	91.25	192.73	318.46	2676
734.00	889.30	868.30	2366	2427	91.04	192.34	317.89	2364
736.00	892.39	871.39	2368	2429	90.67	191.63	316.83	3089
738.00	895.32	874.32	2369	2431	90.35	191.01	315.91	2925
740.00	898.21	877.21	2371	2432	90.03	190.41	315.00	2897
742.00	901.09	880.09	2372	2433	89.73	189.81	314.12	2877
744.00	903.61	882.61	2373	2434	89.50	189.37	313.47	2519
746.00	906.28	885.28	2373	2434	89.23	188.88	312.73	2673
748.00	909.04	888.04	2374	2435	88.96	188.34	311.94	2760
750.00	911.91	890.91	2376	2436	88.66	187.77	311.08	2868
752.00	914.99	893.99	2378	2438	88.31	187.10	310.07	3081
754.00	918.22	897.22	2380	2441	87.94	186.37	308.96	3229
756.00	921.26	900.26	2382	2443	87.61	185.73	308.00	3038
758.00	924.17	903.17	2383	2444	87.31	185.15	307.13	2909
760.00	927.34	906.34	2385	2446	86.95	184.45	306.08	3178
762.00	930.55	909.55	2387	2448	86.59	183.75	305.01	3204
764.00	934.02	913.02	2390	2452	86.18	182.93	303.76	3469
766.00	937.53	916.53	2393	2455	85.75	182.09	302.47	3516

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
768.00	940.93	919.93	2396	2458	85.35	181.32	301.29	3398
770.00	945.03	924.03	2400	2464	84.78	180.18	299.53	4101
772.00	948.52	927.52	2403	2467	84.38	179.38	298.31	3484
774.00	951.67	930.67	2405	2469	84.05	178.74	297.33	3158
776.00	954.94	933.94	2407	2471	83.70	178.05	296.28	3269
778.00	958.30	937.30	2410	2474	83.33	177.32	295.17	3360
780.00	962.30	941.30	2414	2479	82.81	176.30	293.58	3993
782.00	965.80	944.80	2416	2482	82.42	175.52	292.39	3506
784.00	968.94	947.94	2418	2484	82.11	174.91	291.46	3136
786.00	971.70	950.70	2419	2485	81.88	174.45	290.77	2759
788.00	974.72	953.72	2421	2486	81.59	173.90	289.93	3022
790.00	977.88	956.88	2422	2488	81.28	173.29	289.00	3162
792.00	981.25	960.25	2425	2491	80.93	172.60	287.94	3373
794.00	984.89	963.89	2428	2495	80.53	171.80	286.70	3640
796.00	988.37	967.37	2431	2497	80.17	171.07	285.58	3477
798.00	991.49	970.49	2432	2499	79.88	170.50	284.71	3115
800.00	994.51	973.51	2434	2501	79.61	169.97	283.90	3026
802.00	997.61	976.61	2435	2502	79.33	169.42	283.05	3095
804.00	1000.54	979.54	2437	2504	79.08	168.92	282.30	2934
806.00	1003.76	982.76	2439	2506	78.77	168.33	281.38	3224
808.00	1006.98	985.98	2441	2508	78.48	167.73	280.47	3219
810.00	1010.13	989.13	2442	2509	78.19	167.17	279.61	3147
812.00	1013.50	992.50	2445	2512	77.87	166.53	278.61	3373
814.00	1016.82	995.82	2447	2514	77.56	165.91	277.66	3321

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
816.00	1020.17	999.17	2449	2517	77.24	165.29	276.69	3347
818.00	1023.10	1002.10	2450	2518	77.01	164.82	275.98	2929
820.00	1026.07	1005.07	2451	2519	76.77	164.34	275.24	2975
822.00	1028.79	1007.79	2452	2519	76.57	163.95	274.64	2719
824.00	1031.56	1010.56	2453	2520	76.36	163.54	274.02	2767
826.00	1034.36	1013.36	2454	2521	76.15	163.12	273.39	2799
828.00	1037.01	1016.01	2454	2521	75.96	162.76	272.83	2647
830.00	1039.92	1018.92	2455	2522	75.73	162.31	272.14	2914
832.00	1042.86	1021.86	2456	2523	75.50	161.85	271.44	2945
834.00	1045.68	1024.68	2457	2524	75.30	161.44	270.81	2816
836.00	1048.84	1027.84	2459	2526	75.03	160.91	270.00	3161
838.00	1051.75	1030.75	2460	2527	74.81	160.48	269.33	2913
840.00	1054.96	1033.96	2462	2528	74.54	159.94	268.50	3205
842.00	1057.96	1036.96	2463	2530	74.31	159.48	267.79	3003
844.00	1060.60	1039.60	2464	2530	74.14	159.13	267.25	2642
846.00	1063.39	1042.39	2464	2531	73.94	158.74	266.66	2781
848.00	1066.13	1045.13	2465	2531	73.75	158.36	266.08	2745
850.00	1068.96	1047.96	2466	2532	73.55	157.97	265.47	2827
852.00	1071.65	1050.65	2466	2532	73.37	157.61	264.92	2696
854.00	1074.44	1053.44	2467	2533	73.17	157.22	264.33	2791
856.00	1077.30	1056.30	2468	2534	72.97	156.82	263.71	2857
858.00	1080.34	1059.34	2469	2535	72.74	156.36	263.00	3036
860.00	1083.08	1062.08	2470	2535	72.56	156.00	262.44	2748
862.00	1085.74	1064.74	2470	2536	72.39	155.66	261.92	2658

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
864.00	1088.88	1067.88	2472	2537	72.15	155.18	261.17	3142
866.00	1092.02	1071.02	2473	2539	71.91	154.70	260.43	3132
868.00	1094.84	1073.84	2474	2540	71.72	154.32	259.84	2827
870.00	1097.82	1076.82	2475	2541	71.51	153.89	259.18	2980
872.00	1101.00	1080.00	2477	2542	71.27	153.41	258.43	3173
874.00	1103.91	1082.91	2478	2543	71.07	153.01	257.80	2917
876.00	1106.95	1085.95	2479	2544	70.85	152.57	257.13	3036
878.00	1109.85	1088.85	2480	2545	70.66	152.18	256.52	2897
880.00	1112.68	1091.68	2481	2546	70.47	151.81	255.95	2833
882.00	1115.41	1094.41	2482	2546	70.30	151.47	255.42	2735
884.00	1118.32	1097.32	2483	2547	70.11	151.08	254.82	2903
886.00	1121.33	1100.33	2484	2548	69.90	150.66	254.17	3012
888.00	1124.54	1103.54	2485	2550	69.66	150.19	253.42	3211
890.00	1127.82	1106.82	2487	2552	69.42	149.70	252.65	3277
892.00	1131.19	1110.19	2489	2554	69.16	149.18	251.83	3374
894.00	1134.43	1113.43	2491	2556	68.93	148.70	251.09	3238
896.00	1137.10	1116.10	2491	2556	68.77	148.39	250.61	2667
898.00	1139.73	1118.73	2492	2556	68.62	148.09	250.14	2631
900.00	1142.50	1121.50	2492	2557	68.46	147.75	249.62	2771
902.00	1145.13	1124.13	2493	2557	68.31	147.45	249.16	2633
904.00	1147.93	1126.93	2493	2557	68.14	147.11	248.63	2803
906.00	1150.68	1129.68	2494	2558	67.97	146.79	248.12	2743
908.00	1153.44	1132.44	2494	2558	67.81	146.46	247.61	2759
910.00	1156.00	1135.00	2495	2558	67.67	146.18	247.18	2565

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
								2493
912.00	1158.49	1137.49	2495	2558	67.54	145.92	246.78	2487
914.00	1160.98	1139.98	2494	2558	67.41	145.66	246.38	2519
916.00	1163.50	1142.50	2495	2558	67.28	145.40	245.97	2696
918.00	1166.20	1145.20	2495	2558	67.13	145.09	245.50	2601
920.00	1168.80	1147.80	2495	2558	66.99	144.81	245.06	2712
922.00	1171.51	1150.51	2496	2559	66.83	144.50	244.58	2816
924.00	1174.32	1153.32	2496	2559	66.67	144.17	244.06	2894
926.00	1177.22	1156.22	2497	2560	66.50	143.82	243.51	2993
928.00	1180.21	1159.21	2498	2561	66.31	143.44	242.93	2773
930.00	1182.99	1161.99	2499	2562	66.15	143.13	242.43	3044
932.00	1186.03	1165.03	2500	2563	65.97	142.74	241.83	3008
934.00	1189.04	1168.04	2501	2564	65.78	142.37	241.24	2718
936.00	1191.76	1170.76	2502	2564	65.63	142.07	240.77	2725
938.00	1194.48	1173.48	2502	2564	65.49	141.77	240.30	2553
940.00	1197.03	1176.03	2502	2564	65.36	141.51	239.90	2705
942.00	1199.74	1178.74	2503	2565	65.21	141.22	239.44	2469
944.00	1202.21	1181.21	2503	2565	65.09	140.98	239.07	2625
946.00	1204.83	1183.83	2503	2565	64.96	140.71	238.65	2658
948.00	1207.49	1186.49	2503	2565	64.82	140.43	238.21	2703
950.00	1210.19	1189.19	2504	2565	64.68	140.14	237.76	2423
952.00	1212.62	1191.62	2503	2565	64.56	139.91	237.41	2550
954.00	1215.17	1194.17	2503	2565	64.44	139.66	237.02	2469
956.00	1217.64	1196.64	2503	2565	64.32	139.42	236.65	2622
958.00	1220.26	1199.26	2504	2565	64.19	139.16	236.23	

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
960.00	1222.86	1201.86	2504	2565	64.06	138.90	235.82	2607
962.00	1225.41	1204.41	2504	2565	63.94	138.65	235.44	2541
964.00	1228.05	1207.05	2504	2565	63.80	138.38	235.02	2645
966.00	1230.61	1209.61	2504	2565	63.68	138.13	234.63	2560
968.00	1233.18	1212.18	2505	2565	63.56	137.88	234.24	2573
970.00	1235.85	1214.85	2505	2565	63.42	137.61	233.81	2667
972.00	1238.39	1217.39	2505	2565	63.30	137.37	233.43	2540
974.00	1240.79	1219.79	2505	2565	63.20	137.15	233.10	2400
976.00	1243.26	1222.26	2505	2565	63.09	136.92	232.74	2470
978.00	1245.70	1224.70	2504	2564	62.98	136.70	232.40	2435
980.00	1248.09	1227.09	2504	2564	62.87	136.49	232.07	2400
982.00	1250.52	1229.52	2504	2564	62.76	136.28	231.73	2426
984.00	1252.94	1231.94	2504	2564	62.66	136.06	231.40	2422
986.00	1255.48	1234.48	2504	2563	62.54	135.82	231.03	2533
988.00	1257.92	1236.92	2504	2563	62.43	135.60	230.69	2448
990.00	1260.25	1239.25	2504	2563	62.34	135.41	230.38	2324
992.00	1262.53	1241.53	2503	2562	62.24	135.22	230.09	2286
994.00	1264.83	1243.83	2503	2562	62.15	135.03	229.80	2301
996.00	1267.21	1246.21	2502	2561	62.05	134.83	229.48	2382
998.00	1269.46	1248.46	2502	2561	61.96	134.65	229.20	2250
1000.00	1271.85	1250.85	2502	2560	61.86	134.44	228.88	2390
1002.00	1274.16	1253.16	2501	2560	61.76	134.25	228.59	2310
1004.00	1276.53	1255.53	2501	2560	61.66	134.05	228.27	2369
1006.00	1278.87	1257.87	2501	2559	61.57	133.86	227.97	2338

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
1008.00	1281.13	1260.13	2500	2559	61.48	133.68	227.70	2257
1010.00	1283.53	1262.53	2500	2558	61.38	133.48	227.38	2404
1012.00	1285.98	1264.98	2500	2558	61.27	133.26	227.04	2444
1014.00	1288.49	1267.49	2500	2558	61.16	133.04	226.69	2511
1016.00	1290.95	1269.95	2500	2558	61.06	132.83	226.36	2462
1018.00	1293.50	1272.50	2500	2558	60.95	132.60	226.00	2547
1020.00	1295.88	1274.88	2500	2557	60.85	132.40	225.69	2385
1022.00	1298.30	1277.30	2500	2557	60.75	132.20	225.37	2418
1024.00	1300.56	1279.56	2499	2557	60.66	132.02	225.09	2259
1026.00	1302.62	1281.62	2498	2556	60.59	131.88	224.88	2058
1028.00	1304.63	1283.63	2497	2555	60.52	131.74	224.67	2011
1030.00	1306.73	1285.73	2497	2554	60.45	131.59	224.44	2103
1032.00	1308.74	1287.74	2496	2553	60.38	131.46	224.23	2007
1034.00	1311.14	1290.14	2495	2553	60.28	131.26	223.92	2398
1036.00	1313.37	1292.37	2495	2552	60.20	131.09	223.66	2236
1038.00	1315.52	1294.52	2494	2552	60.12	130.94	223.42	2152
1040.00	1317.97	1296.97	2494	2551	60.02	130.73	223.10	2442
1042.00	1320.37	1299.37	2494	2551	59.93	130.54	222.79	2406
1044.00	1322.92	1301.92	2494	2551	59.82	130.32	222.44	2548
1046.00	1325.54	1304.54	2494	2551	59.70	130.08	222.06	2618
1048.00	1328.10	1307.10	2494	2551	59.60	129.86	221.71	2558
1050.00	1330.68	1309.68	2495	2551	59.49	129.63	221.35	2586
1052.00	1333.29	1312.29	2495	2551	59.37	129.40	220.99	2606
1054.00	1335.87	1314.87	2495	2551	59.27	129.18	220.63	2577

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
1056.00	1338.27	1317.27	2495	2551	59.17	128.99	220.33	2409
1058.00	1340.74	1319.74	2495	2551	59.07	128.78	220.01	2469
1060.00	1343.09	1322.09	2495	2551	58.98	128.60	219.72	2346
1062.00	1345.32	1324.32	2494	2550	58.90	128.44	219.47	2232
1064.00	1347.55	1326.55	2494	2549	58.82	128.28	219.22	2228
1066.00	1349.90	1328.90	2493	2549	58.73	128.10	218.93	2356
1068.00	1352.32	1331.32	2493	2549	58.64	127.91	218.63	2417
1070.00	1354.82	1333.82	2493	2549	58.54	127.70	218.30	2504
1072.00	1357.12	1336.12	2493	2548	58.46	127.53	218.03	2300
1074.00	1359.33	1338.33	2492	2548	58.38	127.37	217.79	2202
1076.00	1361.66	1340.66	2492	2547	58.30	127.20	217.51	2335
1078.00	1364.05	1343.05	2492	2547	58.21	127.02	217.22	2384
1080.00	1366.39	1345.39	2491	2547	58.12	126.84	216.94	2340
1082.00	1368.62	1347.62	2491	2546	58.04	126.68	216.69	2235
1084.00	1371.06	1350.06	2491	2546	57.95	126.49	216.39	2440
1086.00	1373.52	1352.52	2491	2546	57.85	126.30	216.08	2460
1088.00	1376.00	1355.00	2491	2546	57.76	126.10	215.77	2480
1090.00	1378.51	1357.51	2491	2546	57.66	125.90	215.45	2514
1092.00	1380.95	1359.95	2491	2545	57.57	125.71	215.15	2439
1094.00	1383.45	1362.45	2491	2545	57.47	125.51	214.83	2493
1096.00	1385.98	1364.98	2491	2545	57.37	125.31	214.51	2535
1098.00	1388.28	1367.28	2490	2545	57.29	125.14	214.25	2300
1100.00	1390.69	1369.69	2490	2545	57.20	124.96	213.96	2411
1102.00	1392.91	1371.91	2490	2544	57.13	124.81	213.72	2221

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
								2488
1104.00	1395.40	1374.40	2490	2544	57.04	124.61	213.41	
								2373
1106.00	1397.77	1376.77	2490	2544	56.95	124.44	213.13	
								2467
1108.00	1400.24	1379.24	2490	2544	56.86	124.25	212.83	
								2406
1110.00	1402.65	1381.65	2489	2543	56.77	124.07	212.55	
								2497
1112.00	1405.14	1384.14	2489	2543	56.68	123.88	212.24	
								2554
1114.00	1407.70	1386.70	2490	2543	56.58	123.67	211.91	
								2960
1116.00	1410.66	1389.66	2490	2544	56.45	123.40	211.47	
								2721
1118.00	1413.38	1392.38	2491	2544	56.34	123.17	211.10	
								2927
1120.00	1416.31	1395.31	2492	2545	56.21	122.91	210.67	
								2886
1122.00	1419.19	1398.19	2492	2546	56.09	122.65	210.26	
								3219
1124.00	1422.41	1401.41	2494	2547	55.94	122.33	209.74	
								2227
1126.00	1424.64	1403.64	2493	2547	55.86	122.18	209.51	
								2431
1128.00	1427.07	1406.07	2493	2546	55.78	122.00	209.22	
								2644
1130.00	1429.71	1408.71	2493	2547	55.68	121.79	208.88	
								2574
1132.00	1432.29	1411.29	2493	2547	55.58	121.59	208.56	
								2842
1134.00	1435.13	1414.13	2494	2547	55.46	121.35	208.17	
								2670
1136.00	1437.80	1416.80	2494	2547	55.36	121.14	207.83	
								2547
1138.00	1440.35	1419.35	2494	2547	55.27	120.95	207.52	
								2926
1140.00	1443.27	1422.27	2495	2548	55.15	120.69	207.10	
								2512
1142.00	1445.78	1424.78	2495	2548	55.06	120.50	206.81	
								2112
1144.00	1447.89	1426.89	2495	2547	54.99	120.38	206.60	
								2764
1146.00	1450.66	1429.66	2495	2548	54.89	120.15	206.24	
								2944
1148.00	1453.60	1432.60	2496	2549	54.76	119.89	205.82	
								2129
1150.00	1455.73	1434.73	2495	2548	54.70	119.77	205.62	

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
1152.00	1458.28	1437.28	2495	2548	54.61	119.58	205.32	2553
1154.00	1461.52	1440.52	2497	2549	54.46	119.27	204.81	3231
1156.00	1465.11	1444.11	2498	2551	54.28	118.89	204.19	3595
1158.00	1469.64	1448.64	2502	2556	54.00	118.28	203.19	4525
1160.00	1473.33	1452.33	2504	2559	53.81	117.89	202.54	3692
1162.00	1475.97	1454.97	2504	2559	53.71	117.69	202.23	2641
1164.00	1478.54	1457.54	2504	2559	53.63	117.51	201.93	2568
1166.00	1481.61	1460.61	2505	2560	53.50	117.24	201.49	3078
1168.00	1484.67	1463.67	2506	2561	53.37	116.97	201.06	3059
1170.00	1487.19	1466.19	2506	2561	53.29	116.80	200.78	2521
1172.00	1490.20	1469.20	2507	2561	53.17	116.54	200.36	3005
1174.00	1493.01	1472.01	2508	2562	53.06	116.32	200.01	2811
1176.00	1495.63	1474.63	2508	2562	52.97	116.14	199.70	2618
1178.00	1498.18	1477.18	2508	2562	52.89	115.96	199.42	2548
1180.00	1501.07	1480.07	2509	2562	52.78	115.73	199.04	2896
1182.00	1504.31	1483.31	2510	2564	52.64	115.44	198.57	3232
1184.00	1507.35	1486.35	2511	2565	52.52	115.19	198.15	3043
1186.00	1509.65	1488.65	2510	2564	52.45	115.04	197.93	2300
1188.00	1512.67	1491.67	2511	2565	52.33	114.80	197.52	3025
1190.00	1515.75	1494.76	2512	2566	52.21	114.54	197.10	3083
1192.00	1518.95	1497.95	2513	2567	52.08	114.26	196.65	3191
1194.00	1522.10	1501.10	2514	2568	51.95	113.99	196.21	3159
1196.00	1524.80	1503.80	2515	2569	51.86	113.80	195.90	2697
1198.00	1527.34	1506.34	2515	2568	51.78	113.63	195.62	2539

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
1200.00	1529.40	1508.40	2514	2568	51.73	113.52	195.45	2057
1202.00	1532.50	1511.50	2515	2569	51.61	113.27	195.03	3106
1204.00	1535.71	1514.71	2516	2570	51.48	113.00	194.58	3202
1206.00	1538.97	1517.97	2517	2571	51.34	112.71	194.12	3269
1208.00	1542.17	1521.17	2518	2572	51.22	112.45	193.68	3200
1210.00	1545.56	1524.56	2520	2574	51.07	112.14	193.19	3391
1212.00	1548.65	1527.65	2521	2575	50.96	111.90	192.78	3085
1214.00	1551.82	1530.82	2522	2576	50.83	111.64	192.36	3166
1216.00	1555.07	1534.07	2523	2577	50.71	111.37	191.91	3258
1218.00	1557.27	1536.27	2523	2577	50.65	111.25	191.71	2193
1220.00	1559.41	1538.41	2522	2576	50.59	111.13	191.53	2142
1222.00	1561.56	1540.56	2521	2575	50.54	111.02	191.35	2148
1224.00	1563.70	1542.70	2521	2575	50.48	110.91	191.17	2142
1226.00	1566.48	1545.48	2521	2575	50.39	110.71	190.85	2777
1228.00	1569.34	1548.34	2522	2576	50.29	110.51	190.52	2866
1230.00	1571.63	1550.63	2521	2575	50.23	110.38	190.31	2292
1232.00	1573.77	1552.77	2521	2574	50.18	110.27	190.13	2140
1234.00	1576.04	1555.04	2520	2574	50.12	110.14	189.93	2268
1236.00	1578.85	1557.85	2521	2574	50.02	109.94	189.60	2813
1238.00	1581.09	1560.09	2520	2574	49.97	109.82	189.41	2234
1240.00	1584.31	1563.31	2521	2575	49.84	109.56	188.98	3224
1242.00	1587.58	1566.58	2523	2576	49.72	109.30	188.54	3269
1244.00	1590.63	1569.63	2524	2577	49.61	109.07	188.17	3049
1246.00	1593.76	1572.76	2524	2578	49.50	108.83	187.77	3126

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
1248.00	1597.17	1576.17	2526	2580	49.36	108.54	187.30	3416
1250.00	1600.35	1579.35	2527	2581	49.25	108.30	186.89	3177
1252.00	1603.56	1582.56	2528	2582	49.13	108.05	186.48	3211
1254.00	1606.74	1585.74	2529	2583	49.01	107.80	186.08	3174
1256.00	1609.89	1588.89	2530	2584	48.90	107.56	185.69	3150
1258.00	1613.06	1592.06	2531	2585	48.79	107.32	185.29	3177
1260.00	1616.29	1595.29	2532	2586	48.67	107.07	184.88	3228
1262.00	1619.36	1598.36	2533	2587	48.57	106.85	184.51	3068
1264.00	1621.51	1600.51	2532	2586	48.52	106.75	184.34	2147
1266.00	1623.69	1602.69	2532	2586	48.46	106.64	184.17	2189
1268.00	1626.97	1605.97	2533	2587	48.34	106.38	183.75	3278
1270.00	1630.22	1609.22	2534	2588	48.23	106.14	183.34	3248
1272.00	1633.44	1612.44	2535	2589	48.11	105.90	182.94	3215
1274.00	1636.65	1615.65	2536	2590	48.00	105.66	182.54	3211
1276.00	1638.89	1617.89	2536	2590	47.95	105.54	182.36	2241
1278.00	1642.22	1621.22	2537	2591	47.83	105.29	181.94	3334
1280.00	1645.42	1624.42	2538	2592	47.72	105.05	181.55	3194
1282.00	1648.61	1627.61	2539	2593	47.61	104.82	181.16	3198
1284.00	1651.78	1630.78	2540	2594	47.50	104.59	180.78	3171
1286.00	1654.98	1633.98	2541	2595	47.39	104.36	180.40	3197
1288.00	1658.19	1637.19	2542	2596	47.28	104.13	180.02	3209
1290.00	1661.63	1640.63	2544	2598	47.16	103.86	179.58	3436
1292.00	1664.98	1643.98	2545	2599	47.04	103.61	179.16	3358
1294.00	1668.16	1647.16	2546	2600	46.93	103.38	178.79	3174

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
								3263
1296.00	1671.42	1650.42	2547	2601	46.82	103.15	178.39	3299
1298.00	1674.72	1653.72	2548	2603	46.71	102.91	178.00	3332
1300.00	1678.05	1657.05	2549	2604	46.60	102.66	177.59	3236
1302.00	1681.29	1660.29	2550	2605	46.49	102.44	177.21	2865
1304.00	1684.15	1663.15	2551	2605	46.40	102.26	176.92	3461
1306.00	1687.61	1666.61	2552	2607	46.28	102.00	176.49	3443
1308.00	1691.06	1670.06	2554	2608	46.16	101.74	176.06	3435
1310.00	1694.49	1673.49	2555	2610	46.04	101.49	175.64	3551
1312.00	1698.04	1677.04	2556	2612	45.92	101.22	175.19	3456
1314.00	1701.50	1680.50	2558	2613	45.80	100.96	174.76	2359
1316.00	1703.86	1682.86	2558	2613	45.74	100.85	174.58	2310
1318.00	1706.17	1685.17	2557	2612	45.69	100.74	174.40	3776
1320.00	1709.95	1688.95	2559	2614	45.55	100.44	173.89	3463
1322.00	1713.41	1692.41	2560	2616	45.43	100.18	173.47	3315
1324.00	1716.72	1695.72	2562	2617	45.33	99.96	173.09	3290
1326.00	1720.01	1699.01	2563	2618	45.22	99.73	172.72	3393
1328.00	1723.41	1702.41	2564	2620	45.11	99.49	172.32	3012
1330.00	1726.42	1705.42	2565	2620	45.02	99.31	172.01	2379
1332.00	1728.80	1707.80	2564	2620	44.97	99.19	171.83	3128
1334.00	1731.93	1710.93	2565	2621	44.88	98.99	171.50	3248
1336.00	1735.17	1714.17	2566	2622	44.78	98.78	171.14	3397
1338.00	1738.57	1717.57	2567	2623	44.67	98.55	170.75	3443
1340.00	1742.01	1721.01	2569	2624	44.55	98.31	170.35	3490
1342.00	1745.50	1724.50	2570	2626	44.44	98.06	169.94	

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
1344.00	1748.91	1727.91	2571	2627	44.33	97.83	169.55	3406
1346.00	1752.28	1731.28	2572	2629	44.23	97.60	169.18	3373
1348.00	1755.68	1734.68	2574	2630	44.12	97.38	168.80	3393
1350.00	1759.11	1738.11	2575	2631	44.01	97.14	168.41	3436
1352.00	1761.98	1740.98	2575	2632	43.94	96.98	168.14	2872
1354.00	1765.50	1744.50	2577	2633	43.82	96.74	167.74	3513
1356.00	1768.87	1747.87	2578	2634	43.72	96.52	167.37	3369
1358.00	1772.22	1751.22	2579	2636	43.62	96.30	167.00	3350
1360.00	1774.75	1753.75	2579	2635	43.56	96.18	166.80	2534
1362.00	1777.03	1756.03	2579	2635	43.51	96.08	166.64	2279
1364.00	1780.02	1759.02	2579	2636	43.43	95.91	166.36	2986
1366.00	1783.46	1762.46	2580	2637	43.33	95.68	165.98	3446
1368.00	1786.80	1765.80	2582	2638	43.23	95.47	165.63	3341
1370.00	1790.21	1769.21	2583	2639	43.13	95.25	165.26	3405
1372.00	1793.66	1772.66	2584	2641	43.02	95.03	164.88	3451
1374.00	1797.02	1776.02	2585	2642	42.92	94.82	164.53	3360
1376.00	1800.35	1779.35	2586	2643	42.83	94.61	164.18	3330
1378.00	1803.73	1782.73	2587	2644	42.73	94.40	163.82	3380
1380.00	1807.38	1786.38	2589	2646	42.61	94.15	163.41	3649
1382.00	1809.96	1788.96	2589	2646	42.56	94.03	163.21	2579
1384.00	1813.18	1792.18	2590	2647	42.47	93.84	162.89	3225
1386.00	1816.65	1795.65	2591	2648	42.36	93.62	162.52	3465
1388.00	1819.93	1798.93	2592	2649	42.27	93.42	162.19	3285
1390.00	1823.16	1802.16	2593	2650	42.18	93.23	161.87	3231

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
1392.00	1826.35	1805.35	2594	2651	42.10	93.05	161.57	3186
1394.00	1829.73	1808.73	2595	2652	42.00	92.84	161.22	3376
1396.00	1833.12	1812.12	2596	2653	41.91	92.63	160.88	3396
1398.00	1836.64	1815.64	2597	2655	41.80	92.41	160.51	3518
1400.00	1839.94	1818.94	2598	2656	41.72	92.22	160.18	3297
1402.00	1843.05	1822.05	2599	2657	41.64	92.05	159.90	3113
1404.00	1846.79	1825.79	2601	2658	41.52	91.80	159.48	3740
1406.00	1850.26	1829.26	2602	2660	41.42	91.59	159.13	3469
1408.00	1853.70	1832.70	2603	2661	41.33	91.38	158.78	3437
1410.00	1856.99	1835.99	2604	2662	41.24	91.19	158.46	3297
1412.00	1860.31	1839.31	2605	2663	41.15	91.00	158.14	3319
1414.00	1863.69	1842.69	2606	2664	41.06	90.81	157.81	3382
1416.00	1866.60	1845.60	2607	2665	40.99	90.66	157.57	2907
1418.00	1870.20	1849.20	2608	2666	40.89	90.44	157.20	3597
1420.00	1873.69	1852.69	2609	2667	40.79	90.23	156.85	3494
1422.00	1877.07	1856.07	2611	2669	40.70	90.04	156.52	3377
1424.00	1880.45	1859.45	2612	2670	40.61	89.85	156.20	3386
1426.00	1884.06	1863.06	2613	2671	40.51	89.63	155.83	3605
1428.00	1887.65	1866.65	2614	2673	40.41	89.41	155.46	3593
1430.00	1891.11	1870.11	2616	2674	40.32	89.21	155.13	3458
1432.00	1894.52	1873.52	2617	2675	40.23	89.02	154.80	3410
1434.00	1898.20	1877.20	2618	2677	40.12	88.79	154.43	3678
1436.00	1901.61	1880.61	2619	2678	40.04	88.60	154.11	3414
1438.00	1904.96	1883.96	2620	2679	39.95	88.42	153.80	3350

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
1440.00	1908.32	1887.32	2621	2680	39.87	88.23	153.49	3359
1442.00	1911.79	1890.79	2622	2681	39.77	88.04	153.16	3472
1444.00	1915.26	1894.26	2624	2683	39.68	87.84	152.83	3472
1446.00	1918.55	1897.55	2625	2684	39.60	87.67	152.54	3282
1448.00	1922.09	1901.09	2626	2685	39.51	87.47	152.20	3546
1450.00	1925.43	1904.43	2627	2686	39.43	87.29	151.90	3338
1452.00	1928.82	1907.82	2628	2687	39.34	87.11	151.59	3395
1454.00	1932.38	1911.38	2629	2688	39.25	86.91	151.26	3552
1456.00	1935.97	1914.97	2630	2690	39.16	86.70	150.91	3598
1458.00	1939.46	1918.46	2632	2691	39.07	86.51	150.59	3490
1460.00	1942.87	1921.87	2633	2692	38.98	86.33	150.28	3411
1462.00	1946.31	1925.31	2634	2693	38.90	86.15	149.97	3439
1464.00	1949.72	1928.72	2635	2695	38.82	85.97	149.67	3404
1466.00	1953.07	1932.07	2636	2696	38.74	85.80	149.38	3356
1468.00	1956.57	1935.57	2637	2697	38.65	85.61	149.06	3492
1470.00	1960.00	1939.00	2638	2698	38.57	85.43	148.76	3432
1472.00	1962.93	1941.93	2638	2698	38.50	85.30	148.54	2930
1474.00	1966.63	1945.63	2640	2700	38.41	85.09	148.19	3701
1476.00	1970.26	1949.26	2641	2701	38.32	84.89	147.85	3632
1478.00	1974.05	1953.05	2643	2703	38.22	84.67	147.48	3785
1480.00	1978.00	1957.00	2645	2705	38.11	84.44	147.09	3955
1482.00	1981.48	1960.48	2646	2706	38.03	84.26	146.78	3475
1484.00	1985.11	1964.11	2647	2708	37.93	84.06	146.45	3634
1486.00	1988.53	1967.53	2648	2709	37.86	83.89	146.16	3415

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
								3536
1488.00	1992.06	1971.06	2649	2710	37.77	83.71	145.85	3239
1490.00	1995.30	1974.30	2650	2711	37.70	83.55	145.59	3419
1492.00	1998.72	1977.72	2651	2712	37.62	83.38	145.30	3594
1494.00	2002.31	1981.31	2652	2713	37.53	83.20	144.99	3510
1496.00	2005.82	1984.82	2654	2715	37.45	83.02	144.69	3449
1498.00	2009.27	1988.27	2655	2716	37.37	82.85	144.40	3500
1500.00	2012.77	1991.77	2656	2717	37.29	82.67	144.10	3509
1502.00	2016.28	1995.28	2657	2718	37.21	82.50	143.80	3637
1504.00	2019.92	1998.92	2658	2720	37.12	82.31	143.48	3491
1506.00	2023.41	2002.41	2659	2721	37.04	82.13	143.19	3504
1508.00	2026.91	2005.91	2660	2722	36.96	81.96	142.90	3605
1510.00	2030.52	2009.52	2662	2723	36.88	81.78	142.59	3896
1512.00	2034.41	2013.41	2663	2725	36.78	81.57	142.23	3806
1514.00	2038.22	2017.22	2665	2727	36.69	81.36	141.89	4280
1516.00	2042.50	2021.50	2667	2730	36.57	81.11	141.45	4246
1518.00	2046.75	2025.75	2669	2732	36.46	80.86	141.03	3815
1520.00	2050.56	2029.56	2670	2734	36.37	80.66	140.69	3909
1522.00	2054.47	2033.47	2672	2736	36.27	80.45	140.34	3907
1524.00	2058.38	2037.38	2674	2738	36.17	80.25	139.99	3462
1526.00	2061.84	2040.84	2675	2739	36.10	80.09	139.71	3391
1528.00	2065.23	2044.23	2676	2740	36.03	79.93	139.45	3375
1530.00	2068.61	2047.61	2677	2741	35.96	79.78	139.20	3444
1532.00	2072.05	2051.05	2678	2742	35.89	79.62	138.93	3494
1534.00	2075.54	2054.54	2679	2743	35.81	79.46	138.65	

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
1536.00	2078.96	2057.96	2680	2744	35.74	79.31	138.39	3419
1538.00	2082.46	2061.46	2681	2745	35.67	79.15	138.12	3493
1540.00	2086.16	2065.16	2682	2746	35.58	78.97	137.82	3707
1542.00	2089.62	2068.62	2683	2747	35.51	78.81	137.55	3452
1544.00	2093.09	2072.09	2684	2748	35.44	78.65	137.29	3474
1546.00	2096.54	2075.54	2685	2749	35.37	78.50	137.03	3447
1548.00	2100.09	2079.09	2686	2751	35.29	78.34	136.75	3557
1550.00	2103.58	2082.58	2687	2752	35.22	78.18	136.48	3485
1552.00	2107.20	2086.20	2688	2753	35.15	78.01	136.20	3625
1554.00	2110.85	2089.85	2690	2754	35.07	77.84	135.91	3650
1556.00	2114.67	2093.67	2691	2756	34.98	77.66	135.60	3819
1558.00	2118.35	2097.35	2692	2757	34.90	77.49	135.31	3676
1560.00	2122.30	2101.30	2694	2759	34.81	77.29	134.97	3947
1562.00	2125.99	2104.99	2695	2761	34.74	77.12	134.68	3693
1564.00	2129.76	2108.76	2697	2762	34.65	76.94	134.38	3768
1566.00	2133.39	2112.39	2698	2763	34.58	76.78	134.10	3634
1568.00	2136.93	2115.93	2699	2764	34.51	76.62	133.84	3543
1570.00	2140.73	2119.73	2700	2766	34.43	76.45	133.54	3791
1572.00	2144.73	2123.73	2702	2768	34.34	76.25	133.20	4007
1574.00	2149.87	2128.87	2705	2772	34.19	75.93	132.65	5141
1576.00	2153.61	2132.61	2706	2774	34.11	75.76	132.36	3736
1578.00	2157.52	2136.52	2708	2775	34.03	75.58	132.05	3905
1580.00	2161.32	2140.32	2709	2777	33.95	75.40	131.75	3809
1582.00	2165.03	2144.03	2711	2778	33.87	75.24	131.47	3705

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
								3779
1584.00	2168.81	2147.81	2712	2780	33.79	75.07	131.19	3680
1586.00	2172.49	2151.49	2713	2781	33.72	74.91	130.91	3825
1588.00	2176.31	2155.31	2715	2783	33.64	74.74	130.62	3634
1590.00	2179.95	2158.95	2716	2784	33.57	74.58	130.36	4252
1592.00	2184.20	2163.20	2718	2786	33.47	74.37	130.00	4078
1594.00	2188.28	2167.28	2719	2788	33.39	74.18	129.67	4056
1596.00	2192.33	2171.33	2721	2790	33.30	73.99	129.34	3981
1598.00	2196.31	2175.31	2723	2792	33.21	73.81	129.03	3684
1600.00	2200.00	2179.00	2724	2793	33.14	73.65	128.77	3791
1602.00	2203.79	2182.79	2725	2795	33.07	73.49	128.49	3875
1604.00	2207.67	2186.67	2727	2796	32.99	73.32	128.20	3827
1606.00	2211.49	2190.49	2728	2798	32.92	73.15	127.92	3691
1608.00	2215.18	2194.18	2729	2799	32.85	73.00	127.66	3849
1610.00	2219.03	2198.03	2730	2801	32.77	72.83	127.37	3591
1612.00	2222.62	2201.62	2732	2802	32.70	72.69	127.13	3447
1614.00	2226.07	2205.07	2732	2803	32.64	72.56	126.90	3532
1616.00	2229.60	2208.60	2733	2804	32.58	72.42	126.67	3852
1618.00	2233.45	2212.45	2735	2805	32.51	72.26	126.39	3672
1620.00	2237.13	2216.13	2736	2807	32.44	72.11	126.14	3750
1622.00	2240.88	2219.88	2737	2808	32.37	71.96	125.88	3752
1624.00	2244.63	2223.63	2738	2809	32.30	71.80	125.62	3625
1626.00	2248.25	2227.25	2740	2810	32.23	71.66	125.37	3563
1628.00	2251.82	2230.82	2741	2811	32.17	71.53	125.14	3845
1630.00	2255.66	2234.66	2742	2813	32.10	71.37	124.87	

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
1632.00	2259.80	2238.80	2744	2815	32.01	71.18	124.56	4141
1634.00	2263.80	2242.80	2745	2817	31.94	71.01	124.27	3994
1636.00	2268.00	2247.00	2747	2819	31.85	70.83	123.95	4202
1638.00	2272.02	2251.02	2748	2821	31.77	70.66	123.65	4017
1640.00	2276.04	2255.04	2750	2822	31.69	70.49	123.36	4024
1642.00	2279.91	2258.91	2751	2824	31.62	70.33	123.10	3869
1644.00	2283.81	2262.81	2753	2825	31.55	70.17	122.83	3899
1646.00	2287.80	2266.80	2754	2827	31.48	70.01	122.55	3988
1648.00	2291.68	2270.68	2756	2829	31.40	69.85	122.28	3884
1650.00	2295.58	2274.58	2757	2830	31.33	69.70	122.01	3897
1652.00	2299.31	2278.31	2758	2831	31.27	69.56	121.77	3736
1654.00	2302.91	2281.91	2759	2833	31.21	69.43	121.55	3594
1656.00	2306.53	2285.53	2760	2834	31.15	69.29	121.32	3619
1658.00	2311.22	2290.22	2763	2837	31.05	69.07	120.94	4689
1660.00	2315.62	2294.62	2765	2839	30.96	68.88	120.60	4405
1662.00	2319.90	2298.90	2766	2841	30.87	68.69	120.29	4276
1664.00	2324.51	2303.51	2769	2844	30.78	68.48	119.93	4612
1666.00	2329.04	2308.04	2771	2847	30.69	68.28	119.58	4530
1668.00	2333.52	2312.52	2773	2849	30.60	68.08	119.24	4479
1670.00	2337.93	2316.93	2775	2851	30.51	67.89	118.92	4414
1672.00	2342.06	2321.06	2776	2853	30.43	67.73	118.64	4127
1674.00	2346.04	2325.04	2778	2855	30.36	67.58	118.37	3984
1676.00	2349.87	2328.87	2779	2856	30.30	67.43	118.13	3825
1678.00	2354.42	2333.42	2781	2859	30.21	67.24	117.79	4549

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
								4468
1680.00	2358.88	2337.88	2783	2861	30.12	67.05	117.47	3487
1682.00	2362.37	2341.37	2784	2862	30.07	66.93	117.27	3625
1684.00	2366.00	2345.00	2785	2863	30.01	66.81	117.06	3824
1686.00	2369.82	2348.82	2786	2865	29.95	66.67	116.82	3667
1688.00	2373.49	2352.49	2787	2866	29.89	66.55	116.61	4115
1690.00	2377.60	2356.60	2789	2867	29.82	66.39	116.34	3317
1692.00	2380.92	2359.92	2790	2868	29.78	66.29	116.17	4620
1694.00	2385.54	2364.54	2792	2871	29.69	66.09	115.83	4132
1696.00	2389.67	2368.67	2793	2873	29.61	65.93	115.56	4473
1698.00	2394.14	2373.14	2795	2875	29.53	65.75	115.24	5055
1700.00	2399.20	2378.20	2798	2878	29.43	65.52	114.84	4899
1702.00	2404.10	2383.10	2800	2882	29.33	65.30	114.47	4879
1704.00	2408.98	2387.98	2803	2885	29.23	65.09	114.10	4918
1706.00	2413.90	2392.90	2805	2888	29.13	64.87	113.73	4747
1708.00	2418.64	2397.64	2808	2891	29.04	64.67	113.38	4681
1710.00	2423.32	2402.32	2810	2894	28.95	64.48	113.05	4934
1712.00	2428.26	2407.26	2812	2897	28.86	64.27	112.68	4363
1714.00	2432.62	2411.62	2814	2899	28.78	64.10	112.40	4345
1716.00	2436.97	2415.97	2816	2901	28.71	63.94	112.12	4765
1718.00	2441.73	2420.73	2818	2904	28.62	63.74	111.73	5054
1720.00	2446.79	2425.79	2821	2907	28.52	63.52	111.41	4690
1722.00	2451.47	2430.47	2823	2910	28.43	63.34	111.08	4748
1724.00	2456.22	2435.22	2825	2913	28.35	63.14	110.76	4398
1726.00	2460.62	2439.62	2827	2915	28.27	62.98	110.48	

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
1728.00	2464.89	2443.89	2829	2917	28.20	62.83	110.21	4273
1730.00	2469.75	2448.75	2831	2920	28.11	62.63	109.88	4860
1732.00	2474.50	2453.50	2833	2923	28.03	62.45	109.55	4745
1734.00	2479.18	2458.18	2835	2925	27.95	62.27	109.24	4686
1736.00	2484.05	2463.05	2838	2928	27.86	62.07	108.91	4866
1738.00	2488.63	2467.63	2840	2931	27.78	61.90	108.62	4583
1740.00	2493.49	2472.49	2842	2934	27.69	61.71	108.29	4858
1742.00	2498.05	2477.05	2844	2936	27.62	61.55	108.00	4562
1744.00	2502.50	2481.50	2846	2938	27.55	61.39	107.73	4450
1746.00	2506.77	2485.77	2847	2940	27.48	61.24	107.48	4262
1748.00	2511.24	2490.24	2849	2942	27.41	61.09	107.21	4478
1750.00	2515.76	2494.76	2851	2945	27.34	60.93	106.93	4513
1752.00	2520.45	2499.45	2853	2947	27.26	60.75	106.63	4684
1754.00	2524.91	2503.91	2855	2949	27.19	60.60	106.37	4465
1756.00	2529.39	2508.39	2857	2952	27.12	60.44	106.10	4479
1758.00	2533.64	2512.64	2859	2953	27.05	60.30	105.86	4252
1760.00	2537.96	2516.96	2860	2955	26.99	60.16	105.61	4315
1762.00	2541.59	2520.59	2861	2956	26.94	60.06	105.44	3636
1764.00	2545.40	2524.40	2862	2957	26.89	59.95	105.25	3805
1766.00	2549.23	2528.23	2863	2958	26.84	59.84	105.06	3831
1768.00	2553.40	2532.40	2865	2960	26.78	59.71	104.84	4167
1770.00	2557.56	2536.56	2866	2962	26.72	59.58	104.61	4165
1772.00	2561.74	2540.74	2868	2963	26.66	59.45	104.39	4176
1774.00	2565.93	2544.93	2869	2965	26.61	59.32	104.16	4193

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
1776.00	2570.21	2549.21	2871	2967	26.54	59.18	103.93	4277

SYNTHETIC

SYNTHETIC

ANALYST: N.SMITH 9-FEB-89 04:24:10 PROGRAM: GMULTP 006.E06

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*   SCHLUMBERGER  *
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SYNTHETIC SEISMOGRAM TABLE

COMPANY : ESSO AUSTRALIA LTD.

WELL : HARLEQUIN #1

FIELD : WILDCAT

COUNTRY : AUSTRALIA

REFERENCE: 569304

LOGGED : 1 FEB 89

THE HEADINGS AND FLAGS SHOWN IN THE DATA LIST ARE DEFINED
AS FOLLOWS:

IGEOFL- FLAG INDICATING MODE OF PROCESSING
IGEOFL = 0 WST DATA AVAILABLE AND PROCESSED
IGEOFL = 1 WST DATA NOT AVAILABLE

LOG INPUT DATA :
GRFOO1- CHANNEL NAME FOR INPUT DENSITY LOG DATA
GTROO1- CHANNEL NAME FOR INPUT SONIC LOG DATA
GCURVE- CORRELATION LOG NAMES

USER DEFINED MODELING

LOFVEL- LAYER OPTION FLAG FOR VELOCITY
LOFDEN- LAYER OPTION FLAG FOR DENSITY
LAYVEL- LAYERED VELOCITY VALUES FOR USER SUPPLIED ZONE LIMIT
WITH RESPECT TO SONIC LOG DATA
LAYDEN- LAYERED DENSITY VALUES FOR USER SUPPLIED ZONE LIMITS
WITH RESPECT TO SONIC LOG DATA
UNERTH- UNIFORM EARTH VELOCITY
UNFDEN- UNIFORM EARTH DENSITY
SRATE SAMPLING RATE IN MS
INIDEP START DEPTH FOR COMPUTING SYNTHETIC SEISMOGRAM
WITH RESPECT TO SONIC LOG DATA
IGESTP STOP DEPTH FOR COMPUTING SYNTHETIC SEISMOGRAM
WITH RESPECT TO SONIC LOG DATA
INITAU TWO WAY TRAVEL TIME FROM TOP SONIC TO SRD
EKB ELEVATION OF KELLY BUSHING WITH RESPECT TO
MEAN SEA LEVEL
SRDGEO SEISMIC REFERENCE DEPTH WITH RESPECT TO
MEAN SEA LEVEL
ICDP FLAG FOR COMPUTING RESIDUAL MULTIPLES
CDPTIM TWO WAY TIME INTERVAL FOR COMPUTATION OF
RESIDUAL MULTIPLES
SCRTIM SURFACE REFLECTOR TWO WAY TIME ABOVE INITAU
SCREFL SURFACE REFLECTION COEFFICIENT
RCMAX REFLECTION COEFFICIENTS THAT ARE EQUAL TO OR
GREATER THAN THIS VALUE SHALL BE FLAGGED

NOTE IN CASE OF MODELING A SYNTHETIC SEISMOGRAM WITHOUT
SONIC LOG DATA ,THE DEPTH REFERENCES SHALL BE USER
DEFINED

OUTPUT DATA

RMSVWE ROOT MEAN SQUARE VELOCITY FOUND FOR THE WELL
SRDTIM TWO WAY TRANSIT TIME BETWEEN INIDEP AND SRDGEO

CHANNNEL NAMES

TWOT- TWO WAY TRAVEL TIME
DSRD- DEPTH OF COMPUTED DATA WITH RESPECT TO SRD
INTV- INTERVAL VELOCITY ON A TIME SCALE
RHOT- INTERVAL DENSITY ON A TIME SCALE
REFL- REFLECTION COEFFICIENT AT GIVEN TWO WAY TRAVEL TIMES
ATTE- ATTENUATION COEFFICIENT AT GIVEN TWO WAY TRAVEL TIMES
PRIM- SYNTHETIC SEISMOGRAM - PRIMARIES
MULT- SYNTHETIC SEISMOGRAM - PRIMARIES + MULTIPLES
MUON- MULTIPLES ONLY

CHANNEL NAMES

CHAN 1 - TWOT.GMU.002.*
CHAN 2 - DSRD.GRF.006.*
CHAN 3 - INTV.GRF.007.*
CHAN 4 - RHOT.GRF.001.*
CHAN 5 - REFL.GRF.001.*
CHAN 6 - ATTE.GRF.001.*
CHAN 7 - PRIM.GRF.001.*
CHAN 8 - MULT.GMU.001.*
CHAN 9 - MUON.GMU.001.*

(GLOBAL PARAMETERS)			(VALUE)	
MODE OF PROC (GEOGRAM)	IGEOFL	:	0	
INITIALIZE CDP LOGIC	ICDP	:	0	
CDP TIME	CDPTIM	:	.200000	S
TIME SAMPLING (WST)	SRATE	:	2.00000	MS
TOP DEPTH OF PROCESSING	INIDEP	:	179.100	M
BOTTOM DEPTH OF PROCESSI	IGESTP	:	2548.00	M
INITIAL TWO WAY TRAVEL T	INITAU	:	.218000	S
SRD FOR GEOGRAM	SRDGEO	:	-30479.7	M
ELEVATION OF KELLY BUSHI	EKB	:	0	M
SRD TIME	SRDTIM	:	0	MS
SURFACE COEFFICIENT OF R	SCRTIM	:	0	MS
SURFACE COEFFICIENT OF R	SCREFL	:	-1.00000	
REFLECTION COEFF MAXIMUM	RCMAX	:	.300000	
RMS VELOCITY IN WELL	RMSVWE	:	3116.58	M/S
UNIFORM EARTH VELOCITY	UNERTH	:	2133.60	M/S
UNIFORM DENSITY VALUE	UNFDEN	:	2.30000	G/C3

(MATRIX PARAMETERS)

1 GR*
2 CALI*

(ZONED PARAMETERS)		(VALUE)		(LIMITS)		
LAYER OPTION FLAG DENS	LOFDEN	:-1.000000		30479.7	-	0
LAYER OPTION FLAG VELOC	LOFVEL	: 1.000000		30479.7	-	0
USER SUPPLIED DENSITY DA	LAYDEN	:-999.2500	G/C3	30479.7	-	0
USER VELOC (WST)	LAYVEL	: 1639.000	M/S	200.100	-	0

TWO WAY TRAVEL TIME MS	DEPTH FROM SRD (OR TOP) M	INTERVAL VELOCITY M/S	INTERVAL DENSITY G/C3	REFLECT. COEFF.	TWO WAY ATTEN. COEFF.	SYNTHETIC SEISMO. PRIMARY	PRIMARY + MULTIPLES	MULTIPLES ONLY
220.0	181.32	2222	2.342	.009	.99992	.00881	.00881	0
222.0	183.58	2262	2.342	.005	.99990	.00467	.00460	-.00008
224.0	185.87	2283	2.342	-.012	.99975	-.01225	-.01233	-.00008
226.0	188.09	2228	2.342	.018	.99941	.01839	.01858	.00020
228.0	190.41	2311	2.342	.005	.99939	.00484	.00463	-.00021
230.0	192.74	2334	2.342	-.024	.99884	-.02350	-.02391	-.00040
232.0	194.97	2226	2.342	-.085	.99163	-.08483	-.08401	.00082
234.0	196.84	1878	2.342	-.031	.99070	-.03038	-.02879	.00159
236.0	198.61	1766	2.342	.104	.97994	.10327	.10390	.00062
238.0	200.79	2177	2.342	.003	.97992	.00342	-.00001	-.00343
240.0	202.98	2192	2.342	-.004	.97991	-.00349	-.00090	.00259
242.0	205.16	2177	2.342	-.001	.97991	-.00072	.00372	.00444
244.0	207.33	2174	2.342	.003	.97990	.00260	-.00520	-.00779
246.0	209.51	2185	2.342	-.002	.97990	-.00188	-.01172	-.00984
248.0	211.69	2177	2.342	-.002	.97990	-.00214	-.00163	.00051
250.0	213.86	2167	2.342	.016	.97964	.01581	.03253	.01672
252.0	216.10	2238	2.342	-.004	.97962	-.00397	.00154	.00551
254.0	218.32	2220	2.342	.002	.97962	.00227	-.00827	-.01055
256.0	220.55	2231	2.342	-.006	.97958	-.00637	-.00566	.00070
258.0	222.75	2202	2.342	-.013	.97942	-.01226	-.01316	-.00090
260.0	224.90	2147	2.342	.010	.97932	.01005	.00825	-.00180
262.0	227.09	2192	2.342	.008	.97925	.00812	.00854	.00042
264.0	229.32	2228	2.342	-.005	.97923	-.00448	.00064	.00512
266.0	231.52	2208	2.342	-.001	.97923	-.00057	.00139	.00246
		2205	2.342					

TWO WAY TRAVEL TIME MS	DEPTH FROM SRD (OR TOP) M	INTERVAL VELOCITY M/S	INTERVAL DENSITY G/C3	REFLECT. COEFF.	TWO WAY ATTEN. COEFF.	SYNTHETIC SEISMO. PRIMARY	PRIMARY + MULTIPLES	MULTIPLES ONLY
268.0	233.73			-.020	.97883	-.01982	-.02574	-.00592
		2118	2.342					
270.0	235.85			.037	.97749	.03624	.03453	-.00171
		2281	2.342					
272.0	238.13			.002	.97748	.00231	.00017	-.00214
		2292	2.342					
274.0	240.42			-.015	.97727	-.01433	-.01235	.00198
		2225	2.342					
276.0	242.65			.008	.97721	.00786	.01458	.00671
		2261	2.342					
278.0	244.91			-.003	.97720	-.00256	-.00544	-.00288
		2250	2.342					
280.0	247.16			.014	.97702	.01334	.00972	-.00362
		2312	2.342					
282.0	249.47			-.008	.97696	-.00754	-.00884	-.00130
		2276	2.342					
284.0	251.74			.009	.97688	.00924	.01355	.00431
		2320	2.342					
286.0	254.06			-.001	.97688	-.00100	.00513	.00612
		2315	2.342					
288.0	256.38			-.001	.97687	-.00092	-.00986	-.00894
		2311	2.342					
290.0	258.69			-.012	.97673	-.01186	-.01000	.00185
		2255	2.342					
292.0	260.95			-.009	.97665	-.00915	-.00612	.00302
		2213	2.342					
294.0	263.16			.019	.97630	.01830	.01609	-.00221
		2298	2.342					
296.0	265.46			-.043	.97449	-.04209	-.04231	-.00022
		2108	2.342					
298.0	267.57			.032	.97347	.03153	.03253	.00099
		2249	2.342					
300.0	269.81			.014	.97327	.01372	.01765	.00393
		2313	2.342					
302.0	272.13			-.020	.97287	-.01976	-.02697	-.00722
		2221	2.342					
304.0	274.35			.020	.97249	.01942	.01884	-.00058
		2312	2.342					
306.0	276.66			-.008	.97242	-.00810	-.00801	.00009
		2273	2.342					
308.0	278.93			.008	.97236	.00738	.00798	.00061
		2308	2.342					
310.0	281.24			-.003	.97235	-.00269	-.00297	-.00028
		2295	2.342					
312.0	283.54			.005	.97233	.00459	.00331	-.00127
		2317	2.342					
314.0	285.85			-.006	.97230	-.00541	.00609	.01150
		2292	2.342					
316.0	288.15			.009	.97222	.00916	.00092	-.00824

TWO WAY TRAVEL TIME MS	DEPTH FROM SRD (OR TOP) M	INTERVAL VELOCITY M/S	INTERVAL DENSITY G/C3	REFLECT. COEFF.	TWO WAY ATTEN. COEFF.	SYNTHETIC SEISMO. PRIMARY	PRIMARY + MULTIPLES	MULTIPLES ONLY
		2335	2.342					
318.0	290.48			.002	.97221	.00224	-.00081	-.00304
		2346	2.343					
320.0	292.83			-.006	.97217	-.00597	.00116	.00713
		2317	2.343					
322.0	295.14			.006	.97214	.00617	.00217	-.00399
		2347	2.343					
324.0	297.49			-.001	.97213	-.00120	-.00024	.00096
		2341	2.343					
326.0	299.83			.002	.97213	.00174	.00162	-.00012
		2349	2.343					
328.0	302.18			.002	.97213	.00232	.00381	.00149
		2361	2.343					
330.0	304.54			.010	.97202	.01007	.00936	-.00071
		2410	2.343					
332.0	306.95			.005	.97199	.00510	.00371	-.00139
		2435	2.343					
334.0	309.39			-.003	.97198	-.00315	-.00239	.00076
		2420	2.343					
336.0	311.81			-.003	.97198	-.00264	-.00367	-.00103
		2406	2.343					
338.0	314.21			.003	.97197	.00311	.00437	.00126
		2422	2.343					
340.0	316.63			.013	.97179	.01296	.01263	-.00033
		2487	2.343					
342.0	319.12			-.012	.97165	-.01185	-.01224	-.00038
		2427	2.343					
344.0	321.55			0	.97165	.00042	.00487	.00445
		2429	2.343					
346.0	323.98			.003	.97164	.00250	-.00028	-.00278
		2442	2.343					
348.0	326.42			.007	.97160	.00670	.00739	.00069
		2476	2.343					
350.0	328.90			-.003	.97159	-.00287	-.00486	-.00199
		2461	2.343					
352.0	331.36			.003	.97158	.00278	.00126	-.00152
		2475	2.343					
354.0	333.83			-.001	.97158	-.00090	.00622	.00712
		2471	2.343					
356.0	336.30			.001	.97158	.00078	-.00440	-.00518
		2475	2.343					
358.0	338.78			.005	.97155	.00492	.00401	-.00091
		2500	2.343					
360.0	341.28			.003	.97154	.00316	.00515	.00199
		2516	2.343					
362.0	343.79			.007	.97150	.00635	.00619	-.00016
		2549	2.343					
364.0	346.34			0	.97150	.00026	.00037	.00010
		2551	2.343					

TWO WAY TRAVEL TIME MS	DEPTH FROM SRD (OR TOP) M	INTERVAL VELOCITY M/S	INTERVAL DENSITY G/C3	REFLECT. COEFF.	TWO WAY ATTEN. COEFF.	SYNTHETIC SEISMO. PRIMARY	PRIMARY + MULTIPLES	MULTIPLES ONLY
366.0	348.89			.003	.97149	.00294	.00052	-.00242
		2566	2.343					
368.0	351.46			-.016	.97125	-.01538	-.01305	.00233
		2486	2.343					
370.0	353.95			.006	.97122	.00560	.00427	-.00134
		2515	2.343					
372.0	356.46			-.029	.97042	-.02791	-.02599	.00192
		2374	2.343					
374.0	358.84			.037	.96907	.03610	.03418	-.00192
		2558	2.343					
376.0	361.39			-.003	.96906	-.00288	-.00004	.00284
		2543	2.343					
378.0	363.94			-.005	.96904	-.00438	-.00345	.00093
		2520	2.343					
380.0	366.46			0	.96904	.00036	-.00332	-.00368
		2522	2.343					
382.0	368.98			.003	.96904	.00245	.00207	-.00038
		2534	2.343					
384.0	371.51			.016	.96879	.01543	.01083	-.00461
		2616	2.343					
386.0	374.13			.001	.96879	.00122	.00307	.00185
		2623	2.343					
388.0	376.75			-.049	.96643	-.04782	-.04389	.00393
		2376	2.343					
390.0	379.13			.039	.96498	.03747	.04485	.00738
		2568	2.343					
392.0	381.69			0	.96498	-.00029	-.01080	-.01051
		2566	2.343					
394.0	384.26			.007	.96493	.00644	.00560	-.00084
		2601	2.343					
396.0	386.86			-.008	.96488	-.00729	-.00214	.00515
		2562	2.343					
398.0	389.42			-.001	.96488	-.00095	-.00072	.00023
		2557	2.343					
400.0	391.98			0	.96488	-.00018	-.00078	-.00060
		2556	2.343					
402.0	394.54			.005	.96485	.00512	-.00323	-.00836
		2583	2.343					
404.0	397.12			-.007	.96480	-.00694	-.00168	.00526
		2546	2.343					
406.0	399.66			.012	.96466	.01167	.02056	.00889
		2608	2.343					
408.0	402.27			.001	.96466	.00106	-.00715	-.00821
		2614	2.343					
410.0	404.89			.017	.96439	.01612	.01670	.00058
		2703	2.343					
412.0	407.59			-.016	.96415	-.01516	-.01571	-.00055
		2619	2.343					
414.0	410.21			.028	.96342	.02662	.02717	.00055

TWO WAY TRAVEL TIME MS	DEPTH FROM SRD (OR TOP) M	INTERVAL VELOCITY M/S	INTERVAL DENSITY G/C3	REFLECT. COEFF.	TWO WAY ATTEN. COEFF.	SYNTHETIC SEISMO. PRIMARY	PRIMARY + MULTIPLES	MULTIPLES ONLY
		2768	2.343					
416.0	412.98			.002	.96341	.00195	.00097	-.00098
		2779	2.343					
418.0	415.76			.003	.96340	.00331	.00236	-.00095
		2798	2.344					
420.0	418.55			-.009	.96332	-.00867	-.00376	.00491
		2748	2.344					
422.0	421.30			-.005	.96330	-.00471	-.00471	0
		2721	2.344					
424.0	424.02			-.032	.96234	-.03041	-.02949	.00093
		2555	2.344					
426.0	426.58			-.003	.96233	-.00256	-.00600	-.00344
		2541	2.344					
428.0	429.12			.031	.96143	.02954	.02795	-.00159
		2702	2.344					
430.0	431.82			-.004	.96141	-.00428	.00386	.00815
		2678	2.344					
432.0	434.50			.009	.96133	.00867	.00454	-.00413
		2727	2.344					
434.0	437.23			.025	.96072	.02418	.02393	-.00025
		2868	2.344					
436.0	440.09			.030	.95983	.02926	.02454	-.00472
		3048	2.344					
438.0	443.14			-.022	.95937	-.02107	-.02839	-.00732
		2917	2.344					
440.0	446.06			.004	.95935	.00376	.00997	.00622
		2940	2.344					
442.0	449.00			-.005	.95933	-.00484	.00027	.00511
		2910	2.344					
444.0	451.91			.007	.95928	.00670	.00809	.00139
		2951	2.344					
446.0	454.86			.019	.95892	.01865	.01601	-.00264
		3068	2.344					
448.0	457.93			-.099	.94959	-.09455	-.08806	.00650
		2517	2.344					
450.0	460.45			.025	.94899	.02402	.02625	.00223
		2648	2.344					
452.0	463.09			.037	.94770	.03497	.02781	-.00716
		2851	2.344					
454.0	465.94			-.079	.94180	-.07478	-.08195	-.00717
		2434	2.344					
456.0	468.38			.076	.93629	.07200	.08091	.00891
		2836	2.344					
458.0	471.21			.044	.93445	.04161	.04474	.00313
		3100	2.344					
460.0	474.31			-.037	.93315	-.03476	-.04203	-.00727
		2878	2.344					
462.0	477.19			.003	.93314	.00319	-.00674	-.00993
		2898	2.344					

TWO WAY TRAVEL TIME MS	DEPTH FROM SRD (OR TOP) M	INTERVAL VELOCITY M/S	INTERVAL DENSITY G/C3	REFLECT. COEFF.	TWO WAY ATTEN. COEFF.	SYNTHETIC SEISMO. PRIMARY	PRIMARY + MULTIPLES	MULTIPLES ONLY
464.0	480.09			-.024	.93262	-.02204	-.02334	-.00130
		2764	2.344					
466.0	482.85			.010	.93253	.00920	.02034	.01114
		2819	2.344					
468.0	485.67			.010	.93244	.00908	.00169	-.00738
		2874	2.344					
470.0	488.55			-.009	.93237	-.00839	-.00391	.00448
		2823	2.344					
472.0	491.37			-.010	.93228	-.00915	.01487	.02402
		2768	2.344					
474.0	494.14			-.013	.93211	-.01254	-.02984	-.01730
		2694	2.344					
476.0	496.83			-.031	.93121	-.02896	-.04584	-.01688
		2532	2.344					
478.0	499.36			-.028	.93047	-.02629	-.01883	.00746
		2393	2.344					
480.0	501.76			.060	.92712	.05582	.05514	-.00067
		2698	2.344					
482.0	504.46			.002	.92711	.00195	.00862	.00667
		2710	2.344					
484.0	507.17			-.047	.92505	-.04374	-.04198	.00176
		2466	2.344					
486.0	509.63			.110	.91385	.10178	.10033	-.00145
		3075	2.344					
488.0	512.71			-.017	.91359	-.01550	-.02594	-.01045
		2973	2.344					
490.0	515.68			-.078	.90796	-.07170	-.07883	-.00713
		2540	2.344					
492.0	518.22			.087	.90105	.07922	.08284	.00362
		3026	2.344					
494.0	521.24			.005	.90103	.00406	.01514	.01107
		3053	2.344					
496.0	524.30			-.067	.89701	-.06022	-.04947	.01074
		2670	2.344					
498.0	526.97			-.012	.89688	-.01074	-.02967	-.01892
		2607	2.344					
500.0	529.57			.047	.89490	.04212	.05735	.01523
		2864	2.344					
502.0	532.44			-.027	.89426	-.02383	-.01659	.00725
		2715	2.344					
504.0	535.15			.033	.89329	.02948	-.01006	-.03954
		2901	2.344					
506.0	538.05			-.002	.89329	-.00194	.03137	.03331
		2888	2.344					
508.0	540.94			.001	.89329	.00050	.01769	.01718
		2891	2.345					
510.0	543.83			.065	.88946	.05847	.02194	-.03653
		3296	2.345					
512.0	547.13			-.004	.88945	-.00364	-.00161	.00202

TWO WAY TRAVEL TIME MS	DEPTH FROM SRD (OR TOP) M	INTERVAL VELOCITY M/S	INTERVAL DENSITY G/C3	REFLECT. COEFF.	TWO WAY ATTEN. COEFF.	SYNTHETIC SEISMO. PRIMARY	PRIMARY + MULTIPLES	MULTIPLES ONLY
		3269	2.345					
514.0	550.40			-.025	.88888	-.02247	.00096	.02343
		3108	2.345					
516.0	553.51			.018	.88859	.01606	.00802	-.00805
		3223	2.345					
518.0	556.73			-.066	.88468	-.05895	-.06917	-.01022
		2822	2.345					
520.0	559.55			-.019	.88437	-.01646	-.00221	.01425
		2718	2.345					
522.0	562.27			.014	.88420	.01228	-.00005	-.01233
		2795	2.345					
524.0	565.06			-.003	.88419	-.00252	.00754	.01006
		2779	2.345					
526.0	567.84			-.048	.88214	-.04258	-.04375	-.00117
		2524	2.345					
528.0	570.37			.014	.88198	.01202	-.00005	-.01207
		2593	2.345					
530.0	572.96			.085	.87564	.07478	.08454	.00976
		3074	2.345					
532.0	576.03			.003	.87563	.00237	-.01491	-.01727
		3090	2.345					
534.0	579.13			.013	.87548	.01173	.01394	.00221
		3174	2.345					
536.0	582.30			-.022	.87505	-.01931	-.00114	.01817
		3037	2.345					
538.0	585.34			.025	.87450	.02197	.00418	-.01779
		3194	2.345					
540.0	588.53			-.055	.87189	-.04774	-.05077	-.00303
		2863	2.345					
542.0	591.39			-.042	.87039	-.03620	-.02654	.00966
		2635	2.345					
544.0	594.03			-.023	.86991	-.02044	-.00568	.01475
		2514	2.345					
546.0	596.54			.057	.86713	.04920	.04265	-.00656
		2815	2.345					
548.0	599.36			-.040	.86574	-.03469	-.04321	-.00852
		2599	2.345					
550.0	601.96			.033	.86482	.02823	.04194	.01371
		2774	2.345					
552.0	604.73			.028	.86412	.02457	.00541	-.01917
		2936	2.345					
554.0	607.67			-.011	.86401	-.00983	-.01545	-.00562
		2870	2.345					
556.0	610.54			-.012	.86387	-.01074	-.01566	-.00492
		2799	2.345					
558.0	613.34			-.044	.86218	-.03829	-.03905	-.00076
		2562	2.345					
560.0	615.90			.029	.86146	.02480	.04437	.01957
		2713	2.345					

TWO WAY TRAVEL TIME MS	DEPTH FROM SRD (OR TOP) M	INTERVAL VELOCITY M/S	INTERVAL DENSITY G/C3	REFLECT. COEFF.	TWO WAY ATTEN. COEFF.	SYNTHETIC SEISMO. PRIMARY	PRIMARY + MULTIPLES	MULTIPLES ONLY
562.0	618.61			.018	.86118	.01560	-.00075	-.01635
		2813	2.345					
564.0	621.42			.017	.86093	.01476	.03449	.01972
		2912	2.345					
566.0	624.34			.055	.85836	.04698	.05095	.00397
		3248	2.345					
568.0	627.58			-.049	.85632	-.04184	-.06173	-.01988
		2946	2.345					
570.0	630.53			.007	.85628	.00603	.02353	.01750
		2988	2.345					
572.0	633.52			-.030	.85551	-.02566	-.03894	-.01328
		2814	2.345					
574.0	636.33			.021	.85513	.01800	.01052	-.00747
		2935	2.345					
576.0	639.26			0	.85513	.00019	.01981	.01962
		2936	2.345					
578.0	642.20			-.033	.85419	-.02842	-.01917	.00925
		2747	2.345					
580.0	644.95			.008	.85414	.00655	.00813	.00158
		2789	2.345					
582.0	647.74			.025	.85359	.02171	-.00372	-.02543
		2935	2.345					
584.0	650.67			-.051	.85141	-.04316	-.03776	.00541
		2652	2.345					
586.0	653.32			.027	.85078	.02310	.02467	.00157
		2800	2.345					
588.0	656.12			.023	.85033	.01946	.01674	-.00272
		2931	2.345					
590.0	659.06			.018	.85007	.01491	.02004	.00513
		3036	2.345					
592.0	662.09			-.011	.84997	-.00916	-.01114	-.00198
		2971	2.345					
594.0	665.06			-.008	.84992	-.00678	-.00179	.00499
		2924	2.346					
596.0	667.99			.034	.84896	.02851	.01818	-.01033
		3127	2.346					
598.0	671.11			-.030	.84820	-.02550	-.03221	-.00671
		2945	2.346					
600.0	674.06			.044	.84655	.03735	.05108	.01373
		3216	2.346					
602.0	677.27			-.047	.84466	-.04000	-.03203	.00798
		2926	2.346					
604.0	680.20			.017	.84442	.01427	.01485	.00057
		3026	2.346					
606.0	683.23			.001	.84442	.00052	-.00387	-.00439
		3030	2.346					
608.0	686.26			-.010	.84433	-.00848	-.00950	-.00102
		2970	2.346					
610.0	689.22			.011	.84424	.00906	.01526	.00620

TWO WAY TRAVEL TIME MS	DEPTH FROM SRD (OR TOP) M	INTERVAL VELOCITY M/S	INTERVAL DENSITY G/C3	REFLECT. COEFF.	TWO WAY ATTEN. COEFF.	SYNTHETIC SEISMO. PRIMARY	PRIMARY + MULTIPLES	MULTIPLES ONLY
		3034	2.346					
612.0	692.26			.001	.84424	.00098	-.00812	-.00910
		3041	2.346					
614.0	695.30			-.003	.84423	-.00266	-.00059	.00206
		3022	2.346					
616.0	698.32			.003	.84422	.00255	.00988	.00733
		3040	2.346					
618.0	701.36			0	.84422	.00042	-.02780	-.02822
		3043	2.346					
620.0	704.41			-.005	.84420	-.00380	.02456	.02836
		3016	2.346					
622.0	707.42			.002	.84420	.00152	-.00476	-.00628
		3027	2.346					
624.0	710.45			-.017	.84397	-.01406	-.02531	-.01125
		2927	2.346					
626.0	713.37			.008	.84392	.00641	.01581	.00940
		2972	2.346					
628.0	716.35			.012	.84379	.01032	.00128	-.00904
		3046	2.346					
630.0	719.39			.004	.84378	.00323	.00919	.00596
		3069	2.346					
632.0	722.46			-.024	.84328	-.02052	-.03105	-.01053
		2923	2.346					
634.0	725.39			.010	.84320	.00838	.01248	.00410
		2982	2.346					
636.0	728.37			-.005	.84318	-.00418	.00618	.01036
		2953	2.346					
638.0	731.32			.033	.84224	.02811	.02959	.00148
		3156	2.346					
640.0	734.48			-.010	.84215	-.00842	-.00651	.00192
		3094	2.346					
642.0	737.57			.022	.84174	.01869	.01682	-.00187
		3234	2.346					
644.0	740.80			-.017	.84150	-.01412	-.01314	.00098
		3127	2.346					
646.0	743.93			-.012	.84138	-.01028	-.01795	-.00766
		3052	2.346					
648.0	746.98			.024	.84091	.01991	.01401	-.00590
		3200	2.346					
650.0	750.18			-.014	.84074	-.01175	.00327	.01502
		3112	2.346					
652.0	753.30			-.034	.83976	-.02876	-.03537	-.00661
		2906	2.346					
654.0	756.20			-.001	.83976	-.00091	.00175	.00266
		2899	2.346					
656.0	759.10			.003	.83975	.00273	-.00032	-.00305
		2918	2.346					
658.0	762.02			-.050	.83762	-.04225	-.04322	-.00597
		2639	2.346					

TWO WAY TRAVEL TIME MS	DEPTH FROM SRD (OR TOP) M	INTERVAL VELOCITY M/S	INTERVAL DENSITY G/C3	REFLECT. COEFF.	TWO WAY ATTEN. COEFF.	SYNTHETIC SEISMO. PRIMARY	PRIMARY + MULTIPLES	MULTIPLES ONLY
660.0	764.66			-.017	.83737	-.01461	-.02349	-.00888
		2548	2.346					
662.0	767.21			.020	.83702	.01695	.02377	.00682
		2653	2.346					
664.0	769.86			.007	.83699	.00557	.02245	.01688
		2689	2.346					
666.0	772.55			.060	.83394	.05051	.03324	-.01727
		3122	2.280					
668.0	775.67			-.117	.82256	-.09743	-.10774	-.01031
		2686	2.096					
670.0	778.36			.115	.81177	.09420	.11321	.01901
		3147	2.252					
672.0	781.50			-.054	.80941	-.04372	-.07079	-.02707
		2974	2.139					
674.0	784.48			-.041	.80803	-.03348	-.02888	.00460
		2871	2.040					
676.0	787.35			.117	.79701	.09438	.10304	.00866
		3292	2.249					
678.0	790.64			-.038	.79585	-.03030	-.01970	.01060
		3009	2.281					
680.0	793.65			-.086	.78995	-.06856	-.06230	.00626
		2665	2.166					
682.0	796.32			.118	.77895	.09319	.07263	-.02055
		3213	2.278					
684.0	799.53			-.108	.76992	-.08390	-.09052	-.00662
		2832	2.082					
686.0	802.36			.129	.75707	.09946	.12663	.02718
		3373	2.266					
688.0	805.73			-.087	.75135	-.06582	-.06949	-.00367
		3047	2.108					
690.0	808.78			.023	.75095	.01739	.01653	-.00086
		3150	2.135					
692.0	811.93			-.138	.73660	-.10378	-.08465	.01914
		2716	1.875					
694.0	814.65			.060	.73391	.04453	-.00463	-.04915
		2672	2.152					
696.0	817.32			-.072	.73011	-.05279	-.06335	-.01055
		2417	2.059					
698.0	819.74			.021	.72980	.01510	.03721	.02210
		2462	2.107					
700.0	822.20			.092	.72361	.06721	.05954	-.00766
		2872	2.172					
702.0	825.07			-.018	.72339	-.01272	-.00236	.01036
		2791	2.158					
704.0	827.86			.005	.72337	.00375	.00341	-.00035
		2843	2.141					
706.0	830.70			.001	.72337	.00074	-.04103	-.04177
		2847	2.142					
708.0	833.55			.024	.72295	.01740	.02203	.00463

TWO WAY TRAVEL TIME MS	DEPTH FROM SRD (OR TOP) M	INTERVAL VELOCITY M/S	INTERVAL DENSITY G/C3	REFLECT. COEFF.	TWO WAY ATTEN. COEFF.	SYNTHETIC SEISMO. PRIMARY	PRIMARY + MULTIPLES	MULTIPLES ONLY
710.0	836.52	2973	2.153	-.005	.72293	-.00345	.01239	.01584
712.0	839.45	2929	2.164	-.026	.72246	-.01847	-.00460	.01387
714.0	842.29	2840	2.121	-.007	.72243	-.00479	.01335	.01814
716.0	845.07	2776	2.141	.043	.72109	.03113	.07844	.04731
718.0	848.05	2982	2.173	-.026	.72059	-.01904	-.06575	-.04671
720.0	850.90	2845	2.161	-.073	.71672	-.05276	-.07204	-.01927
722.0	853.41	2513	2.112	-.032	.71600	-.02278	-.01562	.00716
724.0	855.79	2383	2.090	.003	.71599	.00194	-.01804	-.01999
726.0	858.20	2411	2.077	.131	.70366	.09397	.07644	-.01753
728.0	861.20	2999	2.174	-.072	.70005	-.05038	-.00688	.04350
730.0	863.89	2691	2.099	-.004	.70004	-.00260	-.01887	-.01623
732.0	866.59	2693	2.082	-.067	.69689	-.04696	-.06564	-.01868
734.0	869.08	2498	1.963	.156	.67997	.10859	.07957	-.02901
736.0	872.13	3046	2.203	-.023	.67960	-.01597	.04273	.05870
738.0	875.07	2938	2.180	-.005	.67958	-.00332	-.01140	-.00808
740.0	877.97	2907	2.181	-.035	.67877	-.02348	.02546	.04894
742.0	880.67	2699	2.192	-.010	.67871	-.00655	-.03768	-.03113
744.0	883.37	2693	2.156	-.013	.67859	-.00875	-.01495	-.00620
746.0	885.99	2627	2.153	.012	.67849	.00833	-.01091	-.01924
748.0	888.72	2724	2.129	.044	.67718	.02981	.03263	.00282
750.0	891.66	2940	2.153	.048	.67561	.03267	.07294	.04026
752.0	894.83	3175	2.196	.006	.67558	.00435	-.01108	-.01543
754.0	898.02	3191	2.213	-.022	.67524	-.01499	-.00664	.00835
756.0	901.06	3036	2.225	-.022	.67491	-.01503	-.04305	-.02801
		2884	2.241					

TWO WAY TRAVEL TIME MS	DEPTH FROM SRD (OR TOP) M	INTERVAL VELOCITY M/S	INTERVAL DENSITY G/C3	REFLECT. COEFF.	TWO WAY ATTEN. COEFF.	SYNTHETIC SEISMO. PRIMARY	PRIMARY + MULTIPLES	MULTIPLES ONLY
758.0	903.94			.055	.67234	.03737	.06402	.02664
		3193	2.261					
760.0	907.14			.016	.67267	.01078	.02816	.01738
		3270	2.279					
762.0	910.41			.048	.67112	.03224	.00252	-.02972
		3522	2.330					
764.0	913.93			-.015	.67098	-.00983	.06532	.07515
		3433	2.321					
766.0	917.36			.031	.67033	.02079	.02018	-.00060
		3593	2.359					
768.0	920.95			.060	.66793	.04018	.00716	-.03302
		4012	2.383					
770.0	924.96			-.113	.65939	-.07551	-.07541	.00009
		3306	2.304					
772.0	928.27			-.058	.65718	-.03318	-.02842	.00976
		3228	2.102					
774.0	931.50			-.015	.65704	-.00956	-.01440	-.00485
		3200	2.059					
776.0	934.70			.126	.64663	.08270	.06200	-.02070
		3623	2.342					
778.0	938.32			.034	.64590	.02182	.03008	.00826
		3906	2.324					
780.0	942.23			-.085	.64126	-.05473	-.02414	.03059
		3337	2.296					
782.0	945.56			-.092	.63579	-.05921	-.06667	-.00747
		3106	2.049					
784.0	948.67			-.078	.63191	-.04968	-.10344	-.05377
		2791	1.950					
786.0	951.46			.091	.62666	.05761	.00684	-.05077
		3043	2.148					
788.0	954.50			.022	.62635	.01384	.07028	.05644
		3220	2.121					
790.0	957.72			.070	.62325	.04411	.06081	.01670
		3504	2.244					
792.0	961.23			.036	.62244	.02245	.04397	.02152
		3602	2.347					
794.0	964.83			-.066	.61969	-.04134	-.03306	.00827
		3372	2.195					
796.0	968.20			-.082	.61555	-.05068	-.07528	-.02460
		3038	2.067					
798.0	971.24			.015	.61541	.00927	-.05064	-.05990
		3068	2.110					
800.0	974.31			.010	.61535	.00609	.02082	.01473
		3068	2.152					
802.0	977.38			-.056	.61341	-.03457	-.01335	.02121
		2929	2.014					
804.0	980.30			.064	.61086	.03950	.03227	-.00722
		3204	2.095					
806.0	983.51			.066	.60817	.04059	.05195	.01135

TWO WAY TRAVEL TIME MS	DEPTH FROM SRD (OR TOP) M	INTERVAL VELOCITY M/S	INTERVAL DENSITY G/C3	REFLECT. COEFF.	TWO WAY ATTEN. COEFF.	SYNTHETIC SEISMO. PRIMARY	PRIMARY + MULTIPLES	MULTIPLES ONLY
		3332	2.301					
808.0	986.84			-.053	.60644	-.03238	-.00072	.03166
		3102	2.222					
810.0	989.94			.068	.60362	.04139	.01452	-.02687
		3419	2.311					
812.0	993.36			-.020	.60338	-.01206	-.00244	.00962
		3341	2.273					
814.0	996.70			-.064	.60088	-.03880	-.04143	-.00263
		3072	2.173					
816.0	999.77			.023	.60057	.01359	.00488	-.00871
		3111	2.245					
818.0	1002.88			-.086	.59613	-.05167	-.03098	.02070
		2920	2.013					
820.0	1005.80			-.053	.59443	-.03185	-.07557	-.04372
		2717	1.944					
822.0	1008.52			-.014	.59430	-.00849	-.02262	-.01413
		2746	1.869					
824.0	1011.27			.028	.59384	.01664	.04336	.02673
		2764	1.964					
826.0	1014.03			-.033	.59321	-.01931	-.02743	-.00811
		2664	1.909					
828.0	1016.70			.055	.59144	.03245	-.02086	-.05332
		2933	1.935					
830.0	1019.63			.039	.59054	.02307	.02331	.00025
		2977	2.061					
832.0	1022.61			-.055	.58876	-.03241	.03431	.06672
		2814	1.953					
834.0	1025.42			.150	.57559	.08804	.02517	-.06287
		3236	2.296					
836.0	1028.66			-.098	.57006	-.05642	.02504	.08146
		2939	2.077					
838.0	1031.60			.018	.56988	.01014	-.02783	-.03797
		3079	2.054					
840.0	1034.68			-.008	.56985	-.00448	.00852	.01299
		2969	2.097					
842.0	1037.64			-.123	.56127	-.06990	-.11210	-.04220
		2664	1.826					
844.0	1040.31			.054	.55964	.03024	.03371	.00347
		2785	1.946					
846.0	1043.09			.043	.55863	.02386	.05842	.03457
		2827	2.088					
848.0	1045.92			-.057	.55683	-.03169	-.02829	.00340
		2749	1.917					
850.0	1048.67			-.026	.55645	-.01450	-.02170	-.00720
		2692	1.858					
852.0	1051.36			.060	.55446	.03329	.02376	-.00953
		2822	1.998					
854.0	1054.18			.047	.55321	.02634	.01337	-.01297
		2940	2.109					

TWO WAY TRAVEL TIME MS	DEPTH FROM SRD (OR TOP) M	INTERVAL VELOCITY M/S	INTERVAL DENSITY G/C3	REFLECT. COEFF.	TWO WAY ATTEN. COEFF.	SYNTHETIC SEISMO. PRIMARY	PRIMARY + MULTIPLES	MULTIPLES ONLY
856.0	1057.12			-.034	.55257	-.01874	-.00984	.00890
		2914	1.988					
858.0	1060.04			-.092	.54794	-.05059	-.12141	-.07081
		2701	1.785					
860.0	1062.74			.079	.54453	.04323	.12844	.08521
		2787	2.026					
862.0	1065.52			.085	.54058	.04640	.02068	-.02572
		3184	2.104					
864.0	1068.71			-.045	.53946	-.02458	-.03877	-.01419
		3013	2.030					
866.0	1071.72			-.032	.53891	-.01717	.02262	.03979
		2910	1.972					
868.0	1074.63			.004	.53890	.00234	.00358	.00124
		2845	2.035					
870.0	1077.48			.115	.53180	.06187	.06288	.00102
		3273	2.228					
872.0	1080.75			-.142	.52109	-.07547	-.07428	.00119
		2892	1.894					
874.0	1083.64			.075	.51813	.03924	.02712	-.01213
		3033	2.100					
876.0	1086.68			-.014	.51804	-.00704	.04558	.05262
		2950	2.102					
878.0	1089.63			-.111	.51165	-.05753	-.10545	-.04792
		2713	1.829					
880.0	1092.34			.063	.50960	.03242	.01026	-.02216
		2803	2.009					
882.0	1095.14			-.022	.50935	-.01110	-.03155	-.02046
		2930	1.841					
884.0	1098.07			.051	.50800	.02623	.09038	.06415
		3043	1.964					
886.0	1101.12			.053	.50659	.02678	-.00810	-.03488
		3132	2.121					
888.0	1104.25			.084	.50299	.04269	.04189	-.00080
		3394	2.318					
890.0	1107.64			.013	.50291	.00635	.05637	.05002
		3408	2.367					
892.0	1111.05			-.143	.49268	-.07173	-.08177	-.01004
		2941	2.058					
894.0	1113.99			-.055	.49121	-.02693	-.03866	-.01174
		2793	1.943					
896.0	1116.78			-.060	.48945	-.02942	-.02052	.00890
		2661	1.809					
898.0	1119.44			.018	.48929	.00874	-.06436	-.07360
		2671	1.867					
900.0	1122.12			.009	.48925	.00425	.05693	.05267
		2695	1.883					
902.0	1124.81			0	.48925	.00012	.00332	.00320
		2717	1.869					
904.0	1127.53			.057	.48769	.02769	-.03257	-.06026

TWO WAY TRAVEL TIME MS	DEPTH FROM SRD (OR TOP) M	INTERVAL VELOCITY M/S	INTERVAL DENSITY G/C3	REFLECT. COEFF.	TWO WAY ATTEN. COEFF.	SYNTHETIC SEISMO. PRIMARY	PRIMARY + MULTIPLES	MULTIPLES ONLY
		2861	1.988					
906.0	1130.39			-.015	.48758	-.00737	.02157	.02894
		2787	1.980					
908.0	1133.17			-.100	.48268	-.04884	-.03619	.01265
		2493	1.810					
910.0	1135.67			-.002	.48268	-.00115	-.04811	-.04696
		2464	1.823					
912.0	1138.13			.037	.48200	.01809	.02150	.00341
		2479	1.953					
914.0	1140.61			.014	.48191	.00658	-.01996	-.02655
		2520	1.974					
916.0	1143.13			.007	.48189	.00334	.02065	.01731
		2721	1.854					
918.0	1145.85			.010	.48184	.00476	.03681	.03204
		2600	1.979					
920.0	1148.45			.040	.48105	.01950	.00794	-.01157
		2793	1.998					
922.0	1151.24			0	.48105	-.00020	.03405	.03425
		2825	1.973					
924.0	1154.07			.042	.48021	.02008	-.01653	-.03661
		2938	2.063					
926.0	1157.01			-.007	.48019	-.00326	.00010	.00336
		2925	2.044					
928.0	1159.93			-.005	.48018	-.00222	.02082	.02304
		2825	2.097					
930.0	1162.76			.009	.48014	.00448	.02055	.01607
		3022	1.997					
932.0	1165.78			.002	.48014	.00115	.01191	.01075
		2960	2.049					
934.0	1168.74			-.073	.47761	-.03485	-.04858	-.01373
		2718	1.929					
936.0	1171.46			.001	.47761	.00049	.04870	.04322
		2652	1.981					
938.0	1174.11			.007	.47759	.00324	-.03230	-.03553
		2598	2.050					
940.0	1176.71			-.023	.47734	-.01092	-.04096	-.03004
		2672	1.904					
942.0	1179.38			-.014	.47724	-.00677	.01251	.01929
		2496	1.981					
944.0	1181.87			.055	.47578	.02640	.00979	-.01661
		2687	2.056					
946.0	1184.56			.002	.47578	.00117	.01976	.01859
		2669	2.080					
948.0	1187.23			-.029	.47537	-.01398	-.01995	-.00597
		2620	1.998					
950.0	1189.85			-.032	.47488	-.01514	-.07749	-.06235
		2377	2.067					
952.0	1192.23			.034	.47435	.01591	.02782	.01191
		2583	2.034					

TWO WAY TRAVEL TIME MS	DEPTH FROM SRD (OR TOP) M	INTERVAL VELOCITY M/S	INTERVAL DENSITY G/C3	REFLECT. COEFF.	TWO WAY ATTEN. COEFF.	SYNTHETIC SEISMO. PRIMARY	PRIMARY + MULTIPLES	MULTIPLES ONLY
954.0	1194.81			-.010	.47430	-.00468	.00496	.00964
		2501	2.060					
956.0	1197.31			.028	.47392	.01342	.00714	-.00628
		2645	2.060					
958.0	1199.96			.007	.47390	.00353	.05226	.04874
		2618	2.113					
960.0	1202.57			-.045	.47295	-.02124	-.01064	.01060
		2496	2.026					
962.0	1205.07			.052	.47167	.02454	.01040	-.01414
		2681	2.093					
964.0	1207.75			-.047	.47065	-.02198	-.05763	-.03566
		2502	2.043					
966.0	1210.25			.021	.47043	.01005	.01365	.00360
		2619	2.037					
968.0	1212.87			-.025	.47014	-.01175	-.02281	-.01106
		2547	1.992					
970.0	1215.42			.025	.46985	.01180	.07149	.05968
		2613	2.042					
972.0	1218.03			-.036	.46923	-.01695	-.01890	-.00195
		2416	2.055					
974.0	1220.45			-.007	.46921	-.00310	-.04322	-.04013
		2448	2.001					
976.0	1222.90			.019	.46905	.00879	-.00882	-.01761
		2467	2.062					
978.0	1225.36			-.016	.46893	-.00753	-.00053	.00701
		2316	2.126					
980.0	1227.68			.026	.46862	.01202	.01515	.00312
		2450	2.116					
982.0	1230.13			-.025	.46832	-.01175	-.04070	-.02895
		2465	2.000					
984.0	1232.59			.006	.46831	.00278	.02392	.02113
		2558	1.951					
986.0	1235.15			-.017	.46817	-.00808	.02424	.03232
		2374	2.031					
988.0	1237.53			-.007	.46815	-.00319	-.02098	-.01779
		2296	2.071					
990.0	1239.82			-.010	.46810	-.00456	-.04921	-.04465
		2297	2.030					
992.0	1242.12			.009	.46807	.00409	.03541	.03132
		2342	2.026					
994.0	1244.46			.016	.46795	.00746	.03423	.02678
		2335	2.098					
996.0	1246.79			-.020	.46775	-.00956	-.02736	-.01780
		2308	2.038					
998.0	1249.10			-.011	.46770	-.00515	-.01773	-.01258
		2342	1.964					
1000.0	1251.44			-.007	.46767	-.00343	.00787	.01130
		2337	1.940					
1002.0	1253.78			.019	.46751	.00875	-.05018	-.05893

TWO WAY TRAVEL TIME MS	DEPTH FROM SRD (OR TOP) M	INTERVAL VELOCITY M/S	INTERVAL DENSITY G/C3	REFLECT. COEFF.	TWO WAY ATTEN. COEFF.	SYNTHETIC SEISMO. PRIMARY	PRIMARY + MULTIPLES	MULTIPLES ONLY
		2324	2.025					
1004.0	1256.11			.010	.46746	.00481	.05255	.04774
		2353	2.042					
1006.0	1258.46			-.007	.46743	-.00348	.01967	.02315
		2292	2.065					
1008.0	1260.75			.037	.46680	.01716	.02879	.01163
		2410	2.113					
1010.0	1263.16			.012	.46674	.00555	-.03022	-.03576
		2473	2.109					
1012.0	1265.63			.007	.46672	.00305	.04883	.04578
		2518	2.099					
1014.0	1268.15			-.029	.46631	-.01374	-.03360	-.01986
		2437	2.044					
1016.0	1270.59			.019	.46614	.00885	.03301	.02417
		2526	2.049					
1018.0	1273.11			-.012	.46607	-.00583	-.04683	-.04100
		2398	2.105					
1020.0	1275.51			-.027	.46572	-.01272	.02723	.03995
		2396	1.995					
1022.0	1277.91			-.038	.46505	-.01775	-.01937	-.00162
		2175	2.036					
1024.0	1280.08			-.048	.46399	-.02215	-.04515	-.02300
		2077	1.938					
1026.0	1282.16			-.023	.46376	-.01046	-.02341	-.01295
		1998	1.926					
1028.0	1284.16			.021	.46356	.00965	-.05781	-.06746
		2114	1.897					
1030.0	1286.27			.027	.46321	.01266	.03933	.02667
		2098	2.020					
1032.0	1288.37			.069	.46098	.03215	.00780	-.02434
		2375	2.050					
1034.0	1290.75			-.036	.46037	-.01670	.01265	.02935
		2186	2.071					
1036.0	1292.93			.005	.46036	.00252	.05704	.05452
		2189	2.092					
1038.0	1295.12			.055	.45895	.02552	.00994	-.01558
		2477	2.065					
1040.0	1297.60			.002	.45894	.00112	.02507	.02396
		2439	2.107					
1042.0	1300.04			.026	.45864	.01186	-.00724	-.01910
		2534	2.136					
1044.0	1302.57			.029	.45825	.01323	.01910	.00587
		2674	2.145					
1046.0	1305.25			-.049	.45714	-.02257	-.01834	.00423
		2513	2.068					
1048.0	1307.76			-.006	.45712	-.00292	.00556	.00849
		2573	1.994					
1050.0	1310.33			.042	.45631	.01925	.01504	-.00421
		2667	2.093					

TWO WAY TRAVEL TIME MS	DEPTH FROM SRD (OR TOP) M	INTERVAL VELOCITY M/S	INTERVAL DENSITY G/C3	REFLECT. COEFF.	TWO WAY ATTEN. COEFF.	SYNTHETIC SEISMO. PRIMARY	PRIMARY + MULTIPLES	MULTIPLES ONLY
1052.0	1313.00			-.052	.45509	-.02360	-.02356	.00004
		2450	2.054					
1054.0	1315.45			.016	.45498	.00715	.01354	.00639
		2449	2.121					
1056.0	1317.90			-.010	.45493	-.00460	-.02447	-.01986
		2456	2.072					
1058.0	1320.35			-.032	.45446	-.01465	-.01948	-.00483
		2334	2.044					
1060.0	1322.69			-.027	.45414	-.01209	-.01461	-.00252
		2198	2.058					
1062.0	1324.89			0	.45414	.00016	-.00934	-.00950
		2246	2.016					
1064.0	1327.13			.034	.45361	.01548	.03801	.02253
		2385	2.032					
1066.0	1329.52			.024	.45334	.01110	.06951	.05842
		2455	2.074					
1068.0	1331.97			.012	.45328	.00537	-.05011	-.05548
		2498	2.087					
1070.0	1334.47			-.058	.45173	-.02648	.03090	.05738
		2214	2.094					
1072.0	1336.69			.010	.45169	.00455	-.07343	-.07798
		2246	2.107					
1074.0	1338.93			.016	.45156	.00740	-.02548	-.03287
		2329	2.099					
1076.0	1341.26			.014	.45147	.00645	.10060	.09415
		2399	2.097					
1078.0	1343.66			-.014	.45139	-.00624	-.04366	-.03742
		2311	2.118					
1080.0	1345.97			-.017	.45126	-.00757	-.03948	-.03191
		2277	2.078					
1082.0	1348.25			.041	.45051	.01839	.05145	.03306
		2450	2.095					
1084.0	1350.70			0	.45051	.00013	-.02143	-.02156
		2457	2.091					
1086.0	1353.16			.014	.45042	.00626	-.01108	-.01734
		2501	2.112					
1088.0	1355.66			-.004	.45041	-.00188	.04077	.04265
		2455	2.133					
1090.0	1358.11			-.025	.45014	-.01118	.05690	.06809
		2474	2.015					
1092.0	1360.59			.015	.45004	.00657	-.03621	-.04278
		2526	2.031					
1094.0	1363.11			.003	.45004	.00152	-.03315	-.03467
		2463	2.098					
1096.0	1365.57			-.036	.44944	-.01641	.04130	.05771
		2298	2.090					
1098.0	1367.87			.035	.44890	.01555	-.02031	-.03586
		2375	2.167					
1100.0	1370.25			-.028	.44854	-.01277	-.01733	-.00456

TWO WAY TRAVEL TIME MS	DEPTH FROM SRD (OR TOP) M	INTERVAL VELOCITY M/S	INTERVAL DENSITY G/C3	REFLECT. COEFF.	TWO WAY ATTEN. COEFF.	SYNTHETIC SEISMO. PRIMARY	PRIMARY + MULTIPLES	MULTIPLES ONLY
		2332	2.086					
1102.0	1372.58			.018	.44839	.00813	-.01878	-.02691
		2441	2.066					
1104.0	1375.02			.015	.44828	.00691	.02292	.01601
		2394	2.172					
1106.0	1377.41			.011	.44823	.00476	-.00553	-.01029
		2449	2.169					
1108.0	1379.86			-.001	.44823	-.00057	-.03458	-.03401
		2416	2.193					
1110.0	1382.28			.022	.44802	.00966	.05277	.04311
		2518	2.196					
1112.0	1384.80			.025	.44775	.01105	.06889	.05784
		2627	2.212					
1114.0	1387.42			.039	.44706	.01757	.01377	-.00380
		2941	2.137					
1116.0	1390.37			-.030	.44665	-.01350	.01909	.03259
		2751	2.151					
1118.0	1393.12			.054	.44534	.02426	.00755	-.01671
		2906	2.270					
1120.0	1396.02			.037	.44473	.01647	.03968	.02321
		3043	2.335					
1122.0	1399.07			-.041	.44399	-.01812	-.07823	-.06012
		2973	2.202					
1124.0	1402.04			-.268	.41213	-.11894	-.10917	.00977
		2160	1.750					
1126.0	1404.20			.110	.40715	.04529	.09396	.04867
		2497	1.888					
1128.0	1406.70			.100	.40310	.04060	-.07322	-.11382
		2744	2.098					
1130.0	1409.44			-.104	.39877	-.04179	-.00694	.03485
		2489	1.879					
1132.0	1411.93			.151	.38970	.06014	.13430	.07416
		2920	2.171					
1134.0	1414.85			-.118	.38431	-.04582	-.10419	-.05838
		2583	1.938					
1136.0	1417.43			.014	.38423	.00549	-.01154	-.01703
		2598	1.982					
1138.0	1420.03			.122	.37852	.04685	-.02081	-.06765
		3029	2.172					
1140.0	1423.06			-.233	.35804	-.08805	.00909	.09714
		2280	1.797					
1142.0	1425.34			-.049	.35719	-.01743	-.05138	-.03395
		2123	1.750					
1144.0	1427.46			.293	.32649	.10472	.04522	-.05950
		3060	2.221					
1146.0	1430.52			-.120	.32176	-.03930	-.01812	.02118
		2642	2.020					
1148.0	1433.16			-.177	.31166	-.05699	.04892	.10591
		2132	1.750					

TWO WAY TRAVEL TIME MS	DEPTH FROM SRD (OR TOP) M	INTERVAL VELOCITY M/S	INTERVAL DENSITY G/C3	REFLECT. COEFF.	TWO WAY ATTEN. COEFF.	SYNTHETIC SEISMO. PRIMARY	PRIMARY + MULTIPLES	MULTIPLES ONLY
1150.0	1435.29			.243	.29333	.07559	-.06449	-.14008
		2815	2.174					
1152.0	1438.11			.095	.29067	.02793	.09027	.06234
		3240	2.287					
1154.0	1441.35			.069	.28927	.02020	.12831	.10811
		3670	2.320					
1156.0	1445.02			.188	.27901	.05446	.02080	-.03366
		4906	2.541					
1158.0	1449.93			-.286	.25625	-.07969	-.04442	.03526
		3087	2.244					
1160.0	1453.01			-.149	.25058	-.03812	.05596	.09409
		2566	2.000					
1162.0	1455.58			.058	.24973	.01459	-.16621	-.18081
		2732	2.111					
1164.0	1458.31			.084	.24797	.02096	.05869	.03773
		3066	2.226					
1166.0	1461.38			-.016	.24791	-.00396	.08329	.08725
		2982	2.217					
1168.0	1464.36			-.122	.24423	-.03022	-.06452	-.03431
		2561	2.020					
1170.0	1466.92			.092	.24218	.02236	.00311	-.01925
		2897	2.146					
1172.0	1469.82			.057	.24139	.01380	-.04377	-.05757
		3014	2.311					
1174.0	1472.83			-.225	.22912	-.05443	-.02427	.03016
		2355	1.870					
1176.0	1475.19			.131	.22520	.02997	.01944	-.01053
		2765	2.072					
1178.0	1477.95			.059	.22441	.01330	.01053	-.00277
		2973	2.169					
1180.0	1480.92			.049	.22388	.01095	.00049	-.01046
		3123	2.277					
1182.0	1484.05			-.050	.22332	-.01121	-.03076	-.01955
		2967	2.167					
1184.0	1487.01			-.198	.21457	-.04419	-.00657	.03762
		2310	1.864					
1186.0	1489.32			.229	.20333	.04912	.04997	.00085
		3110	2.207					
1188.0	1492.43			0	.20333	-.00005	-.01322	-.01317
		3127	2.194					
1190.0	1495.56			.007	.20332	.00150	.10106	.09956
		3177	2.191					
1192.0	1498.74			.002	.20332	.00045	-.00918	-.00964
		3187	2.194					
1194.0	1501.92			-.124	.20019	-.02523	-.06424	-.03901
		2665	2.045					
1196.0	1504.59			-.138	.19640	-.02754	-.07966	-.05213
		2321	1.780					
1198.0	1506.91			-.017	.19634	-.00332	-.06720	-.06389

TWO WAY TRAVEL TIME MS	DEPTH FROM SRD (OR TOP) M	INTERVAL VELOCITY M/S	INTERVAL DENSITY G/C3	REFLECT. COEFF.	TWO WAY ATTEN. COEFF.	SYNTHETIC SEISMO. PRIMARY	PRIMARY + MULTIPLES	MULTIPLES ONLY
		2118	1.885					
1200.0	1509.03			.312	.17725	.06123	.12322	.06199
		3282	2.320					
1202.0	1512.31			-.033	.17706	-.00585	.02651	.03236
		3219	2.214					
1204.0	1515.53			.001	.17706	.00025	.04644	.04619
		3257	2.194					
1206.0	1518.79			-.008	.17705	-.00133	-.02567	-.02434
		3191	2.206					
1208.0	1521.98			.038	.17679	.00679	-.04443	-.05122
		3384	2.246					
1210.0	1525.36			-.068	.17596	-.01206	.02113	.03319
		3068	2.161					
1212.0	1528.43			.044	.17563	.00771	.02741	.01970
		3270	2.213					
1214.0	1531.70			-.074	.17466	-.01299	.04144	.05443
		2981	2.094					
1216.0	1534.68			-.247	.16398	-.04321	-.08733	-.04412
		2152	1.750					
1218.0	1536.83			-.002	.16397	-.00040	-.06242	-.06202
		2141	1.750					
1220.0	1538.97			.001	.16397	.00023	-.01137	-.01160
		2147	1.750					
1222.0	1541.12			.002	.16397	.00025	-.04771	-.04796
		2154	1.750					
1224.0	1543.27			.292	.15003	.04782	.07087	.02305
		3024	2.272					
1226.0	1546.30			-.138	.14717	-.02071	-.02210	-.00138
		2706	1.923					
1228.0	1549.00			-.150	.14387	-.02202	-.00721	.01481
		2191	1.757					
1230.0	1551.19			-.014	.14385	-.00203	-.06672	-.06469
		2139	1.750					
1232.0	1553.33			.134	.14127	.01925	-.05003	-.06928
		2504	1.957					
1234.0	1555.84			.021	.14121	.00297	.00701	.00404
		2557	1.998					
1236.0	1558.39			-.016	.14117	-.00230	.02147	.02377
		2387	2.072					
1238.0	1560.78			.223	.13415	.03147	.05653	.02506
		3334	2.335					
1240.0	1564.12			-.032	.13401	-.00435	.10592	.11027
		3250	2.245					
1242.0	1567.37			-.028	.13391	-.00373	.01558	.01931
		3085	2.237					
1244.0	1570.45			.017	.13387	.00233	-.02216	-.02449
		3128	2.284					
1246.0	1573.58			.064	.13332	.00860	.03238	.02378
		3418	2.377					

TWO WAY TRAVEL TIME MS	DEPTH FROM SRD (OR TOP) M	INTERVAL VELOCITY M/S	INTERVAL DENSITY G/C3	REFLECT. COEFF.	TWO WAY ATTEN. COEFF.	SYNTHETIC SEISMO. PRIMARY	PRIMARY + MULTIPLES	MULTIPLES ONLY
1248.0	1577.00			-.065	.13275	-.00372	-.03679	-.02806
		3177	2.243					
1250.0	1580.17			-.008	.13274	-.00103	.03702	.08805
		3177	2.209					
1252.0	1583.35			.006	.13273	.00079	.02022	.01943
		3195	2.223					
1254.0	1586.54			-.013	.13271	-.00177	.06882	.07060
		3164	2.186					
1256.0	1589.71			.009	.13270	.00118	-.07501	-.07620
		3150	2.235					
1258.0	1592.86			.027	.13260	.00357	-.04881	-.05238
		3254	2.283					
1260.0	1596.11			-.124	.13055	-.01648	.01336	.02984
		2816	2.055					
1262.0	1598.93			-.172	.12671	-.02241	-.03526	-.01285
		2132	1.919					
1264.0	1601.06			.152	.12380	.01920	.01317	-.00603
		2428	2.287					
1266.0	1603.49			.156	.12078	.01932	-.00574	-.02506
		3286	2.315					
1268.0	1606.77			-.013	.12075	-.00212	.01355	.01566
		3267	2.248					
1270.0	1610.04			-.015	.12072	-.00181	.03918	.04099
		3196	2.230					
1272.0	1613.24			-.046	.12046	-.00556	-.01564	-.01009
		3006	2.162					
1274.0	1616.24			-.179	.11659	-.02161	-.00186	.01976
		2402	1.882					
1276.0	1618.64			.268	.10824	.03119	-.04972	-.08090
		3408	2.296					
1278.0	1622.05			-.037	.10810	-.00395	.01069	.01464
		3183	2.285					
1280.0	1625.24			-.014	.10808	-.00151	.00105	.00256
		3179	2.225					
1282.0	1628.41			-.002	.10808	-.00025	-.02090	-.02065
		3176	2.217					
1284.0	1631.59			.004	.10807	.00042	-.00217	-.00259
		3188	2.226					
1286.0	1634.78			.021	.10803	.00228	.03603	.03375
		3275	2.260					
1288.0	1638.05			.046	.10780	.00499	.06547	.06048
		3465	2.343					
1290.0	1641.52			-.041	.10761	-.00447	-.05700	-.05254
		3278	2.279					
1292.0	1644.80			-.041	.10743	-.00436	-.02761	-.02326
		3158	2.182					
1294.0	1647.96			.039	.10727	.00420	.00697	.00277
		3298	2.259					
1296.0	1651.25			-.004	.10727	-.00041	.04265	.04307

TWO WAY TRAVEL TIME MS	DEPTH FROM SRD (OR TOP) M	INTERVAL VELOCITY M/S	INTERVAL DENSITY G/C3	REFLECT. COEFF.	TWO WAY ATTEN. COEFF.	SYNTHETIC SEISMO. PRIMARY	PRIMARY + MULTIPLES	MULTIPLES ONLY
		3298	2.242					
1298.0	1654.55			.017	.10724	.00179	-.01804	-.01983
		3328	2.297					
1300.0	1657.88			-.082	.10652	-.00881	-.01444	-.00563
		3009	2.155					
1302.0	1660.89			-.015	.10649	-.00164	.06475	.06639
		3073	2.046					
1304.0	1663.96			.138	.10446	.01472	-.09017	-.10489
		3489	2.380					
1306.0	1667.45			-.025	.10439	-.00266	.01923	.02189
		3462	2.280					
1308.0	1670.91			0	.10439	.00004	-.03600	-.03604
		3410	2.316					
1310.0	1674.32			.036	.10425	.00376	.11123	.10747
		3588	2.366					
1312.0	1677.91			-.097	.10327	-.01011	.00619	.01630
		3248	2.151					
1314.0	1681.16			-.270	.09573	-.02792	-.05736	-.02944
		2294	1.750					
1316.0	1683.45			.134	.09399	.01287	.00975	-.00312
		2594	2.028					
1318.0	1686.05			.284	.08640	.02672	.02983	.00311
		3792	2.489					
1320.0	1689.84			-.090	.08570	-.00777	-.04331	-.03553
		3406	2.314					
1322.0	1693.24			-.041	.08555	-.00350	-.04849	-.04499
		3296	2.204					
1324.0	1696.54			.014	.08554	.00122	.03829	.03707
		3323	2.249					
1326.0	1699.86			.009	.08553	.00075	.07107	.07032
		3371	2.257					
1328.0	1703.23			-.160	.08335	-.01366	-.08611	-.07245
		2771	1.989					
1330.0	1706.01			-.015	.08333	-.00123	.03740	.03864
		2619	2.043					
1332.0	1708.62			.127	.08198	.01061	-.08109	-.09169
		3123	2.214					
1334.0	1711.75			.042	.08183	.00347	-.00672	-.01018
		3254	2.312					
1336.0	1715.00			.014	.08182	.00113	.00653	.00540
		3402	2.273					
1338.0	1718.40			.007	.08181	.00059	.04788	.04729
		3475	2.257					
1340.0	1721.88			.027	.08175	.00221	.04826	.04605
		3529	2.346					
1342.0	1725.41			-.046	.08158	-.00377	.04587	.04964
		3348	2.255					
1344.0	1728.76			-.002	.08158	-.00020	-.02185	-.02165
		3365	2.233					

TWO WAY TRAVEL TIME MS	DEPTH FROM SRD (OR TOP) M	INTERVAL VELOCITY M/S	INTERVAL DENSITY G/C3	REFLECT. COEFF.	TWO WAY ATTEN. COEFF.	SYNTHETIC SEISMO. PRIMARY	PRIMARY + MULTIPLES	MULTIPLES ONLY
1346.0	1732.12			.036	.08147	.00293	-.00178	-.00471
		3558	2.269					
1348.0	1735.68			-.114	.08042	-.00927	-.05322	-.04395
		3048	2.108					
1350.0	1738.73			.027	.08036	.00215	.03264	.03050
		3138	2.159					
1352.0	1741.36			.090	.07971	.00725	-.07534	-.08260
		3475	2.337					
1354.0	1745.34			-.039	.07958	-.00312	.05183	.05495
		3351	2.241					
1356.0	1748.69			-.005	.07958	-.00036	.06368	.06405
		3349	2.222					
1358.0	1752.04			-.264	.07402	-.02104	.00691	.02795
		2280	1.899					
1360.0	1754.32			.027	.07397	.00202	-.09125	-.09327
		2349	1.947					
1362.0	1756.67			.239	.06974	.01769	.01438	-.00330
		3227	2.308					
1364.0	1759.90			.023	.06970	.00162	-.05519	-.05681
		3393	2.300					
1366.0	1763.29			-.015	.06968	-.00105	.05292	.05398
		3363	2.251					
1368.0	1766.65			.006	.06968	.00043	.02657	.02614
		3415	2.244					
1370.0	1770.07			.008	.06968	.00055	-.03870	-.03925
		3446	2.260					
1372.0	1773.51			-.015	.06966	-.00107	.07717	.07824
		3348	2.255					
1374.0	1776.86			.003	.06966	.00018	.00520	.00503
		3358	2.260					
1376.0	1780.22			-.047	.06950	-.00330	-.01625	-.01294
		3232	2.136					
1378.0	1783.45			.099	.06882	.00691	-.03190	-.03881
		3804	2.215					
1380.0	1787.26			-.242	.06478	-.01667	-.06999	-.05331
		2341	2.195					
1382.0	1789.60			.236	.06118	.01526	.00614	-.00912
		3498	2.375					
1384.0	1793.10			-.037	.06110	-.00226	-.00654	-.00428
		3388	2.277					
1386.0	1796.48			-.017	.06108	-.00107	.03134	.03240
		3295	2.261					
1388.0	1799.78			-.027	.06104	-.00164	.03296	.03460
		3203	2.204					
1390.0	1802.98			.005	.06103	.00032	.07769	.07737
		3178	2.245					
1392.0	1806.16			.075	.06069	.00459	-.00437	-.00897
		3473	2.389					
1394.0	1809.63			-.042	.06058	-.00253	-.05868	-.05615

TWO WAY TRAVEL TIME MS	DEPTH FROM SRD (OR TOP) M	INTERVAL VELOCITY M/S	INTERVAL DENSITY G/C3	REFLECT. COEFF.	TWO WAY ATTEN. COEFF.	SYNTHETIC SEISMO. PRIMARY	PRIMARY + MULTIPLES	MULTIPLES ONLY
		3323	2.297					
1396.0	1812.95			.014	.06057	.00082	-.01174	-.01257
		3592	2.184					
1398.0	1816.55			-.077	.06021	-.00466	.00279	.00745
		3036	2.214					
1400.0	1819.58			.086	.05977	.00519	.00129	-.00390
		3405	2.346					
1402.0	1822.99			.064	.05952	.00383	.02128	.01745
		3686	2.465					
1404.0	1826.67			-.056	.05933	-.00335	.00441	.00777
		3439	2.360					
1406.0	1830.11			-.023	.05930	-.00134	-.02520	-.02386
		3415	2.272					
1408.0	1833.53			-.028	.05925	-.00169	-.04173	-.04005
		3298	2.222					
1410.0	1836.83			.002	.05925	.00010	.01442	.01432
		3326	2.211					
1412.0	1840.15			.011	.05925	.00063	.06151	.06089
		3352	2.240					
1414.0	1843.50			-.067	.05898	-.00398	-.00371	.00027
		3001	2.187					
1416.0	1846.50			.134	.05792	.00791	.05397	.04606
		3597	2.390					
1418.0	1850.10			-.038	.05783	-.00221	-.00318	-.00097
		3439	2.316					
1420.0	1853.54			-.013	.05782	-.00078	-.06476	-.06398
		3358	2.309					
1422.0	1856.90			-.001	.05782	-.00006	-.05065	-.05059
		3409	2.270					
1424.0	1860.31			.084	.05742	.00484	-.02119	-.02602
		3741	2.446					
1426.0	1864.05			-.070	.05714	-.00403	.06313	.06716
		3432	2.316					
1428.0	1867.48			-.027	.05709	-.00155	-.00690	-.00534
		3368	2.235					
1430.0	1870.85			.080	.05673	.00456	.04845	.04389
		3616	2.443					
1432.0	1874.46			-.005	.05673	-.00031	.04184	.04215
		3629	2.408					
1434.0	1878.09			-.069	.05646	-.00392	-.11427	-.11035
		3357	2.267					
1436.0	1881.45			-.005	.05646	-.00026	.10611	.10637
		3346	2.254					
1438.0	1884.80			.016	.05644	.00088	-.05661	-.05749
		3399	2.289					
1440.0	1888.19			.018	.05642	.00103	-.01081	-.01184
		3452	2.338					
1442.0	1891.65			-.001	.05642	-.00004	.02209	.02214
		3461	2.328					

TWO WAY TRAVEL TIME MS	DEPTH FROM SRD (OR TOP) M	INTERVAL VELOCITY M/S	INTERVAL DENSITY G/C3	REFLECT. COEFF.	TWO WAY ATTEN. COEFF.	SYNTHETIC SEISMO. PRIMARY	PRIMARY + MULTIPLES	MULTIPLES ONLY
1444.0	1395.11			-.058	.05624	-.00326	-.02263	-.01938
		3247	2.210					
1446.0	1898.35			.103	.05563	.00581	.00678	.00097
		3632	2.432					
1448.0	1901.99			-.091	.05518	-.00505	-.00101	.00405
		3254	2.262					
1450.0	1905.24			.048	.05505	.00263	.03300	.03036
		3444	2.351					
1452.0	1908.69			.034	.05499	.00189	-.05546	-.05735
		3587	2.419					
1454.0	1912.27			-.007	.05498	-.00037	.02939	.02975
		3576	2.394					
1456.0	1915.85			-.025	.05495	-.00137	.05727	.05864
		3487	2.336					
1458.0	1919.34			-.038	.05487	-.00211	-.03477	-.03266
		3389	2.225					
1460.0	1922.72			.032	.05481	.00174	-.06492	-.06667
		3472	2.315					
1462.0	1926.20			-.034	.05475	-.00184	.00531	.00715
		3357	2.238					
1464.0	1929.55			.030	.05470	.00165	-.01575	-.01740
		3461	2.307					
1466.0	1933.01			-.002	.05470	-.00013	.06639	.06702
		3423	2.321					
1468.0	1936.44			.002	.05470	.00009	-.04943	-.04952
		3497	2.279					
1470.0	1939.94			-.141	.05361	-.00771	.02374	.03145
		2812	2.134					
1472.0	1942.75			.233	.05069	.01251	.02390	.01139
		3839	2.515					
1474.0	1946.59			-.049	.05057	-.00246	-.03433	-.03186
		3592	2.439					
1476.0	1950.18			.041	.05049	.00207	-.05274	-.05480
		3850	2.470					
1478.0	1954.03			.004	.05049	.00022	-.00672	-.00694
		3855	2.488					
1480.0	1957.88			-.076	.05020	-.00383	.06762	.07146
		3503	2.351					
1482.0	1961.39			.013	.05019	.00066	.03432	.03416
		3560	2.375					
1484.0	1964.95			-.002	.05019	-.00008	.04017	.04026
		3523	2.392					
1486.0	1968.47			-.034	.05013	-.00173	.00098	.00271
		3396	2.316					
1488.0	1971.87			-.002	.05013	-.00009	-.07304	-.07296
		3325	2.357					
1490.0	1975.19			-.020	.05011	-.00098	.03968	.04066
		3383	2.228					
1492.0	1978.57			.061	.04992	.00305	-.00649	-.00954

TWO WAY TRAVEL TIME MS	DEPTH FROM SRD (OR TOP) M	INTERVAL VELOCITY M/S	INTERVAL DENSITY G/C3	REFLECT. COEFF.	TWO WAY ATTEN. COEFF.	SYNTHETIC SEISMO. PRIMARY	PRIMARY + MULTIPLES	MULTIPLES ONLY
		3579	2.378					
1494.0	1982.15			-.011	.04992	-.00053	.01222	.01276
		3539	2.355					
1496.0	1985.69			-.025	.04989	-.00125	-.03185	-.03060
		3452	2.296					
1498.0	1989.14			.001	.04989	.00004	-.00749	-.00753
		3491	2.274					
1500.0	1992.63			.025	.04986	.00127	.01886	.01758
		3588	2.328					
1502.0	1996.22			-.006	.04985	-.00032	-.11227	-.11195
		3537	2.332					
1504.0	1999.76			-.013	.04984	-.00065	.08479	.08544
		3509	2.290					
1506.0	2003.27			0	.04984	0	.01325	.01326
		3535	2.273					
1508.0	2006.80			.038	.04977	.00190	-.00434	-.00624
		3662	2.368					
1510.0	2010.47			.035	.04971	.00173	.05665	.05492
		3893	2.388					
1512.0	2014.36			-.010	.04971	-.00049	-.05948	-.05898
		3800	2.398					
1514.0	2018.16			.096	.04925	.00479	.04351	.03872
		4588	2.410					
1516.0	2022.75			-.075	.04897	-.00370	-.00078	.00292
		3928	2.421					
1518.0	2026.67			-.004	.04897	-.00018	-.01615	-.01597
		3882	2.432					
1520.0	2030.56			.003	.04897	.00016	.08427	.08411
		3879	2.450					
1522.0	2034.43			.002	.04897	.00009	-.03347	-.03356
		3834	2.488					
1524.0	2038.27			-.105	.04843	-.00515	.06200	.06715
		3429	2.253					
1526.0	2041.70			-.006	.04842	-.00027	-.03548	-.03521
		3365	2.270					
1528.0	2045.06			.005	.04842	.00023	-.07197	-.07220
		3392	2.273					
1530.0	2048.45			.009	.04842	.00042	.00347	.00305
		3425	2.290					
1532.0	2051.88			.035	.04836	.00168	-.01853	-.02021
		3510	2.395					
1534.0	2055.39			-.022	.04834	-.00107	-.06810	-.06703
		3437	2.340					
1536.0	2058.83			.022	.04831	.00109	.01617	.01508
		3521	2.389					
1538.0	2062.35			.039	.04824	.00190	-.01562	-.01752
		3727	2.442					
1540.0	2066.07			-.084	.04790	-.00404	.05530	.05933
		3401	2.263					

TWO WAY TRAVEL TIME MS	DEPTH FROM SRD (OR TOP) M	INTERVAL VELOCITY M/S	INTERVAL DENSITY G/C3	REFLECT. COEFF.	TWO WAY ATTEN. COEFF.	SYNTHETIC SEISMO. PRIMARY	PRIMARY + MULTIPLES	MULTIPLES ONLY
1542.0	2069.48			.013	.04789	.00062	-.02162	-.02225
		3473	2.274					
1544.0	2072.95			-.001	.04789	-.00003	.04564	.04567
		3452	2.286					
1546.0	2076.40			.032	.04784	.00154	.01425	.01271
		3575	2.354					
1548.0	2079.98			-.025	.04781	-.00120	-.01316	-.01195
		3478	2.301					
1550.0	2083.45			.038	.04774	.00182	.04210	.04029
		3651	2.365					
1552.0	2087.11			.011	.04774	.00052	-.07846	-.07898
		3677	2.400					
1554.0	2090.78			.028	.04770	.00135	.01901	.01766
		3809	2.453					
1556.0	2094.59			.006	.04770	.00029	-.03797	-.03825
		3773	2.505					
1558.0	2098.36			-.012	.04769	-.00055	.02672	.02727
		3811	2.424					
1560.0	2102.18			-.027	.04766	-.00128	.07457	.07585
		3691	2.372					
1562.0	2105.87			.019	.04764	.00089	-.02641	-.02729
		3786	2.400					
1564.0	2109.65			-.031	.04759	-.00149	-.02743	-.02593
		3638	2.346					
1566.0	2113.29			-.020	.04757	-.00096	.03922	.04017
		3589	2.284					
1568.0	2116.88			.069	.04735	.00328	.01296	.00968
		3755	2.506					
1570.0	2120.63			.066	.04714	.00314	-.00331	-.00696
		4279	2.512					
1572.0	2124.91			.071	.04690	.00336	-.02295	-.02632
		4880	2.541					
1574.0	2129.79			-.162	.04567	-.00761	-.00212	.00549
		3748	2.384					
1576.0	2133.54			.032	.04562	.00145	.05954	.05809
		3932	2.421					
1578.0	2137.47			-.040	.04555	-.00184	-.06029	-.05845
		3741	2.348					
1580.0	2141.21			.007	.04554	.00031	-.02432	-.02463
		3753	2.372					
1582.0	2144.97			-.003	.04554	-.00015	.05257	.05273
		3753	2.356					
1584.0	2148.72			.004	.04554	.00020	-.06787	-.06807
		3742	2.384					
1586.0	2152.46			.012	.04553	.00056	.04651	.04594
		3809	2.401					
1588.0	2156.27			-.033	.04549	-.00149	.01078	.01227
		3657	2.342					
1590.0	2159.93			.120	.04483	.00544	-.00877	-.01421

TWO WAY TRAVEL TIME MS	DEPTH FROM SRD (OR TOP) M	INTERVAL VELOCITY M/S	INTERVAL DENSITY G/C3	REFLECT. COEFF.	TWO WAY ATTEN. COEFF.	SYNTHETIC SEISMO. PRIMARY	PRIMARY + MULTIPLES	MULTIPLES ONLY
		4362	2.498					
1592.0	2164.29			-.071	.04461	-.00320	.02357	.02677
		3934	2.400					
1594.0	2168.22			.057	.04446	.00252	-.00760	-.01013
		4249	2.489					
1596.0	2172.47			-.069	.04425	-.00308	.01386	.01694
		3818	2.411					
1598.0	2176.29			-.018	.04424	-.00079	.05172	.05251
		3701	2.400					
1600.0	2179.99			-.004	.04424	-.00017	-.07390	-.07373
		3717	2.371					
1602.0	2183.71			.042	.04416	.00186	-.02365	-.02551
		3965	2.418					
1604.0	2187.67			-.040	.04409	-.00177	.00921	.01097
		3733	2.370					
1606.0	2191.41			-.004	.04409	-.00017	-.00284	-.00267
		3712	2.366					
1608.0	2195.12			.025	.04406	.00111	.03448	.03338
		3854	2.396					
1610.0	2198.97			-.038	.04399	-.00169	.00899	.01067
		3602	2.374					
1612.0	2202.57			-.022	.04397	-.00098	-.08209	-.08111
		3295	2.482					
1614.0	2205.87			.058	.04382	.00257	.04833	.04576
		3705	2.482					
1616.0	2209.57			.010	.04382	.00043	0	-.00043
		3779	2.481					
1618.0	2213.35			-.013	.04381	-.00056	.02036	.02093
		3684	2.480					
1620.0	2217.04			.012	.04380	.00052	.00865	.00813
		3773	2.480					
1622.0	2220.81			-.016	.04379	-.00069	-.05633	-.05564
		3657	2.479					
1624.0	2224.47			.008	.04379	.00035	-.02692	-.02727
		3716	2.479					
1626.0	2228.18			-.030	.04375	-.00133	.04776	.04910
		3498	2.478					
1628.0	2231.68			.063	.04358	.00276	-.04603	-.04880
		3971	2.478					
1630.0	2235.65			.020	.04356	.00089	.01705	.01616
		4137	2.477					
1632.0	2239.79			-.007	.04355	-.00032	.07097	.07128
		4079	2.476					
1634.0	2243.87			-.004	.04355	-.00016	-.00979	-.00963
		4050	2.476					
1636.0	2247.92			-.003	.04355	-.00014	-.07116	-.07102
		4025	2.475					
1638.0	2251.95			-.003	.04355	-.00014	.00289	.00302
		4001	2.475					

TWO WAY TRAVEL TIME MS	DEPTH FROM SRD (OR TOP) M	INTERVAL VELOCITY M/S	INTERVAL DENSITY G/C3	REFLECT. COEFF.	TWO WAY ATTEN. COEFF.	SYNTHETIC SEISMO. PRIMARY	PRIMARY + MULTIPLES	MULTIPLES ONLY
1640.0	2255.95			-.013	.04355	-.00057	.05426	.05483
		3899	2.474					
1642.0	2259.84			.005	.04355	.00020	.00544	.00524
		3935	2.474					
1644.0	2263.78			.011	.04354	.00046	.03379	.03332
		4021	2.473					
1646.0	2267.80			-.028	.04351	-.00123	.03291	.03415
		3801	2.472					
1648.0	2271.60			.016	.04349	.00068	-.03561	-.03629
		3923	2.472					
1650.0	2275.52			-.029	.04346	-.00127	-.04378	-.04251
		3701	2.471					
1652.0	2279.23			-.041	.04338	-.00180	.01526	.01705
		3408	2.471					
1654.0	2282.63			.095	.04299	.00412	.02019	.01608
		4123	2.470					
1656.0	2286.76			.054	.04287	.00233	-.02969	-.03202
		4574	2.482					
1658.0	2291.33			-.037	.04281	-.00158	-.05464	-.05306
		4253	2.480					
1660.0	2295.58			.021	.04279	.00088	.05098	.05009
		4393	2.501					
1662.0	2299.98			.039	.04272	.00169	-.00472	-.00641
		4637	2.565					
1664.0	2304.61			-.034	.04268	-.00143	-.02849	-.02705
		4442	2.503					
1666.0	2309.06			.036	.04262	.00154	.10039	.09885
		4713	2.536					
1668.0	2313.77			-.090	.04227	-.00384	.01365	.01749
		4088	2.440					
1670.0	2317.86			.041	.04220	.00173	-.06598	-.06771
		4317	2.509					
1672.0	2322.17			-.075	.04197	-.00316	.00386	.00702
		3846	2.423					
1674.0	2326.02			.016	.04195	.00069	.02082	.02013
		3933	2.450					
1676.0	2329.95			.067	.04177	.00281	-.02516	-.02797
		4683	2.352					
1678.0	2334.64			-.043	.04169	-.00178	.06227	.06405
		4200	2.408					
1680.0	2338.84			-.125	.04104	-.00521	.00949	.01471
		3342	2.354					
1682.0	2342.18			.094	.04067	.00387	-.04107	-.04493
		3764	2.525					
1684.0	2345.94			-.003	.04067	-.00012	-.02174	-.02162
		3749	2.520					
1686.0	2349.69			-.003	.04067	-.00011	-.00879	-.00869
		3794	2.478					
1688.0	2353.48			.017	.04066	.00069	-.01284	-.01354

TWO WAY TRAVEL TIME MS	DEPTH FROM SRD (OR TOP) M	INTERVAL VELOCITY M/S	INTERVAL DENSITY G/C3	REFLECT. COEFF.	TWO WAY ATTEN. COEFF.	SYNTHETIC SEISMO. PRIMARY	PRIMARY + MULTIPLES	MULTIPLES ONLY
		3909	2.488					
1690.0	2357.39			-.059	.04052	-.00238	.02536	.02775
		3547	2.438					
1692.0	2360.94			.169	.03937	.00684	-.03068	-.03752
		4729	2.572					
1694.0	2365.67			-.098	.03899	-.00386	.02444	.02830
		3959	2.524					
1696.0	2369.63			.085	.03870	.00333	.00411	.00078
		4772	2.484					
1698.0	2374.40			.026	.03868	.00100	-.09365	-.09465
		4977	2.509					
1700.0	2379.38			-.013	.03867	-.00051	.04540	.04592
		4799	2.534					
1702.0	2384.18			.031	.03863	.00118	-.01403	-.01521
		5053	2.559					
1704.0	2389.23			-.020	.03862	-.00077	.01573	.01650
		4835	2.569					
1706.0	2394.06			-.014	.03861	-.00053	-.02899	-.02845
		4768	2.534					
1708.0	2398.83			-.020	.03860	-.00076	.06208	.06284
		4619	2.515					
1710.0	2403.45			.029	.03856	.00110	.03762	.03652
		5011	2.454					
1712.0	2408.46			-.104	.03815	-.00401	.03072	.03473
		4143	2.409					
1714.0	2412.61			.046	.03807	.00177	.07219	.07043
		4493	2.437					
1716.0	2417.10			.037	.03801	.00140	.05261	.05121
		4838	2.436					
1718.0	2421.94			-.006	.03801	-.00022	-.12239	-.12217
		5030	2.315					
1720.0	2426.97			-.025	.03799	-.00096	.02295	.02392
		4683	2.364					
1722.0	2431.65			-.006	.03799	-.00024	-.03120	-.03096
		4590	2.381					
1724.0	2436.24			.019	.03797	.00072	-.00956	-.01028
		4579	2.479					
1726.0	2440.82			-.041	.03791	-.00156	.01820	.01975
		4236	2.469					
1728.0	2445.05			.061	.03777	.00230	.02854	.02624
		4829	2.445					
1730.0	2449.88			-.001	.03777	-.00005	.03865	.03870
		4778	2.465					
1732.0	2454.66			-.010	.03777	-.00038	-.07992	-.07954
		4678	2.468					
1734.0	2459.34			.027	.03774	.00100	.01845	.01745
		4752	2.562					
1736.0	2464.09			-.010	.03774	-.00038	.01375	.01413
		4661	2.560					

TWO WAY TRAVEL TIME MS	DEPTH FROM SRD (OR TOP) M	INTERVAL VELOCITY M/S	INTERVAL DENSITY G/C3	REFLECT. COEFF.	TWO WAY ATTEN. COEFF.	SYNTHETIC SEISMO. PRIMARY	PRIMARY + MULTIPLES	MULTIPLES ONLY
1738.0	2468.75			.022	.03772	.00083	.01557	.01473
		4878	2.557					
1740.0	2473.63			-.058	.03759	-.00221	-.01407	-.01187
		4466	2.484					
1742.0	2478.10			.006	.03759	.00024	-.00422	-.00446
		4488	2.504					
1744.0	2482.58			-.023	.03757	-.00088	.03315	.03403
		4285	2.502					
1746.0	2486.87			.026	.03754	.00098	-.04125	-.04223
		4480	2.521					
1748.0	2491.35			.018	.03753	.00068	-.08347	-.08415
		4595	2.549					
1750.0	2495.94			0	.03753	-.00002	.08513	.08515
		4617	2.534					
1752.0	2500.56			-.016	.03752	-.00059	.03470	.03530
		4496	2.522					
1754.0	2505.06			-.017	.03751	-.00065	-.04130	-.04065
		4359	2.512					
1756.0	2509.42			-.006	.03751	-.00024	.08903	.08927
		4321	2.501					
1758.0	2513.74			-.017	.03749	-.00065	-.02485	-.02420
		4252	2.455					
1760.0	2517.99			-.093	.03717	-.00349	-.08205	-.07856
		3557	2.435					
1762.0	2521.55			.033	.03713	.00122	-.04090	-.04212
		3766	2.456					
1764.0	2525.31			.037	.03708	.00138	-.02367	-.02505
		3942	2.528					
1766.0	2529.25			.015	.03707	.00056	.11592	.11535
		4167	2.465					
1768.0	2533.42			.015	.03706	.00057	.00776	.00719
		4165	2.544					
1770.0	2537.58			-.007	.03706	-.00025	-.09168	-.09143
		4183	2.499					
1772.0	2541.77			.004	.03706	.00015	.05366	.05352
		4193	2.513					
1774.0	2545.96			-.004	.03706	-.00016	-.06708	-.06693
		4193	2.492					
1776.0	2550.15			0	0	0	.06940	.06940
1778.0							-.02357	-.02357
1780.0							.09082	.09082
1782.0							-.11204	-.11204
1784.0							-.04981	-.04981
1786.0							-.01131	-.01131

TWO WAY TRAVEL TIME MS	DEPTH FROM SRD (OR TOP) M	INTERVAL VELOCITY M/S	INTERVAL DENSITY G/C3	REFLECT. COEFF.	TWO WAY ATTEN. COEFF.	SYNTHETIC SEISMO. PRIMARY	PRIMARY + MULTIPLES	MULTIPLES ONLY
1788.0							.04691	.04691
1790.0							.04342	.04342
1792.0							.01210	.01210
1794.0							-.07745	-.07745
1796.0							-.02510	-.02510
1798.0							-.02371	-.02371
1800.0							.02939	.02939
1802.0							-.04350	-.04350
1804.0							.04970	.04970
1806.0							.04648	.04648
1808.0							-.03285	-.03285
1810.0							.00274	.00274
1812.0							.12415	.12415
1814.0							-.05843	-.05843
1816.0							.00474	.00474
1818.0							-.03745	-.03745
1820.0							.03178	.03178
1822.0							-.03474	-.03474
1824.0							-.00734	-.00734
1826.0							-.04685	-.04685
1828.0							-.00106	-.00106
1830.0							-.01086	-.01086
1832.0							.02732	.02732
1834.0							-.01021	-.01021

TWO WAY TRAVEL TIME MS	DEPTH FROM SRD (OR TOP) M	INTERVAL VELOCITY M/S	INTERVAL DENSITY G/C3	REFLECT. COEFF.	TWO WAY ATTEN. COEFF.	SYNTHETIC SEISMO. PRIMARY	PRIMARY + MULTIPLES	MULTIPLES ONLY
1836.0							-.04646	-.04646
1838.0							.00901	.00901
1840.0							.06031	.06031
1842.0							.00181	.00181
1844.0							.05415	.05415
1846.0							.02649	.02649
1848.0							.03154	.03154
1850.0							.02049	.02049
1852.0							-.03073	-.03073
1854.0							.01016	.01016
1856.0							-.14457	-.14457
1858.0							-.05216	-.05216
1860.0							.05279	.05279
1862.0							.00722	.00722
1864.0							.08968	.08968
1866.0							-.03397	-.03397
1868.0							-.01140	-.01140
1870.0							-.00244	-.00244
1872.0							-.04089	-.04089
1874.0							.03597	.03597
1876.0							.07636	.07636
1878.0							.01535	.01535
1880.0							-.03471	-.03471
1882.0							-.00956	-.00956
1884.0							-.06587	-.06587

TWO WAY TRAVEL TIME MS	DEPTH FROM SRD (OR TOP) M	INTERVAL VELOCITY M/S	INTERVAL DENSITY G/C3	REFLECT. COEFF.	TWO WAY ATTEN. COEFF.	SYNTHETIC SEISMO. PRIMARY	PRIMARY + MULTIPLES	MULTIPLES ONLY
1886.0							.03958	.03958
1888.0							-.02185	-.02185
1890.0							.10036	.10036
1892.0							.00572	.00572
1894.0							-.09627	-.09627
1896.0							.02956	.02956
1898.0							-.00817	-.00817
1900.0							-.06141	-.06141
1902.0							.05887	.05887
1904.0							.04919	.04919
1906.0							-.05124	-.05124
1908.0							-.06135	-.06135
1910.0							.06581	.06581
1912.0							-.06951	-.06951
1914.0							-.04276	-.04276
1916.0							.04925	.04925
1918.0							.04357	.04357
1920.0							.08821	.08821
1922.0							-.05257	-.05257
1924.0							-.01061	-.01061
1926.0							.00307	.00307
1928.0							-.02097	-.02097
1930.0							.00459	.00459
1932.0							.07940	.07940

TWO WAY TRAVEL TIME MS	DEPTH FROM SRD (OR TOP) M	INTERVAL VELOCITY M/S	INTERVAL DENSITY G/C3	REFLECT. COEFF.	TWO WAY ATTEN. COEFF.	SYNTHETIC SEISMO. PRIMARY	PRIMARY + MULTIPLES	MULTIPLES ONLY
1934.0							-.02424	-.02424
1936.0							-.00440	-.00440
1938.0							-.01718	-.01718
1940.0							-.03606	-.03606
1942.0							-.00699	-.00699
1944.0							-.01855	-.01855
1946.0							-.01715	-.01715
1948.0							.00400	.00400
1950.0							.08473	.08473
1952.0							-.08203	-.08203
1954.0							-.02927	-.02927
1956.0							.10238	.10238
1958.0							-.03385	-.03385
1960.0							.03096	.03096
1962.0							-.06445	-.06445
1964.0							.02452	.02452
1966.0							.06377	.06377
1968.0							-.05037	-.05037
1970.0							.08377	.08377
1972.0							-.07019	-.07019
1974.0							.03760	.03760
1976.0							-.07607	-.07607
1978.0							-.06647	-.06647
1980.0							.08317	.08317
1982.0							.03160	.03160

TWO WAY TRAVEL TIME MS	DEPTH FROM SRD (OR TOP) M	INTERVAL VELOCITY M/S	INTERVAL DENSITY G/C3	REFLECT. COEFF.	TWO WAY ATTEN. COEFF.	SYNTHETIC SEISMO. PRIMARY	PRIMARY + MULTIPLES	MULTIPLES ONLY
1984.0							-.05804	-.05804
1986.0							.07462	.07462
1988.0							-.05439	-.05439
1990.0							-.02067	-.02067
1992.0							-.00215	-.00215
1994.0							.08942	.08942
1996.0							.00033	.00033
1998.0							-.03528	-.03528
2000.0							-.01150	-.01150
2002.0							-.02205	-.02205
2004.0							-.00036	-.00036
2006.0							-.04120	-.04120
2008.0							.04805	.04805
2010.0							.04941	.04941
2012.0							-.05997	-.05997
2014.0							.00536	.00536
2016.0							.06397	.06397
2018.0							.01648	.01648
2020.0							.02293	.02293
2022.0							-.03505	-.03505
2024.0							-.07626	-.07626
2026.0							-.03275	-.03275
2028.0							.01526	.01526
2030.0							-.00494	-.00494

TWO WAY TRAVEL TIME MS	DEPTH FROM SRD (OR TOP) M	INTERVAL VELOCITY M/S	INTERVAL DENSITY G/C3	REFLECT. COEFF.	TWO WAY ATTEN. COEFF.	SYNTHETIC SEISMO. PRIMARY	PRIMARY + MULTIPLES	MULTIPLES ONLY
2032.0							.08929	.08929
2034.0							-.00001	-.00001
2036.0							.00338	.00338
2038.0							-.02802	-.02802
2040.0							-.06328	-.06328
2042.0							.05687	.05687
2044.0							-.01958	-.01958
2046.0							.05096	.05096
2048.0							-.01461	-.01461
2050.0							-.01463	-.01463
2052.0							.03412	.03412
2054.0							-.06724	-.06724
2056.0							-.02751	-.02751
2058.0							.03000	.03000
2060.0							.04511	.04511
2062.0							-.04985	-.04985
2064.0							.03480	.03480
2066.0							.00871	.00871
2068.0							-.04387	-.04387
2070.0							.06763	.06763
2072.0							-.04425	-.04425
2074.0							-.00175	-.00175
2076.0							.09312	.09312
2078.0							-.06174	-.06174
2080.0							.02548	.02548

TWO WAY TRAVEL TIME MS	DEPTH FROM SRD (OR TOP) M	INTERVAL VELOCITY M/S	INTERVAL DENSITY G/C3	REFLECT. COEFF.	TWO WAY ATTEN. COEFF.	SYNTHETIC SEISMO. PRIMARY	PRIMARY + MULTIPLES	MULTIPLES ONLY
2082.0							-.02289	-.02289
2084.0							-.03281	-.03281
2086.0							-.03745	-.03745
2088.0							.05412	.05412
2090.0							.01084	.01084
2092.0							-.04959	-.04959
2094.0							-.00743	-.00743
2096.0							.07012	.07012
2098.0							-.03873	-.03873
2100.0							-.04082	-.04082
2102.0							.01599	.01599
2104.0							.00705	.00705
2106.0							.00500	.00500
2108.0							-.00822	-.00822
2110.0							.10343	.10843
2112.0							-.03340	-.03340
2114.0							-.04233	-.04233
2116.0							-.01999	-.01999
2118.0							.01123	.01123
2120.0							.04911	.04911
2122.0							.02928	.02928
2124.0							-.05720	-.05720
2126.0							-.00082	-.00082
2128.0							-.01469	-.01469

TWO WAY TRAVEL TIME MS	DEPTH FROM SRD (OR TOP) M	INTERVAL VELOCITY M/S	INTERVAL DENSITY G/C3	REFLECT. COEFF.	TWO WAY ATTEN. COEFF.	SYNTHETIC SEISMO. PRIMARY	PRIMARY + MULTIPLES	MULTIPLES ONLY
2130.0							.01272	.01272
2132.0							-.03245	-.03245
2134.0							.02883	.02883
2136.0							-.06706	-.06706
2138.0							-.04396	-.04396
2140.0							.01062	.01062
2142.0							.03037	.03037
2144.0							.06273	.06273
2146.0							.01297	.01297
2148.0							-.01931	-.01931
2150.0							.01886	.01886
2152.0							-.00978	-.00978
2154.0							.00372	.00372
2156.0							.03906	.03906
2158.0							-.02209	-.02209
2160.0							-.00567	-.00567
2162.0							.02830	.02830
2164.0							.03242	.03242
2166.0							-.04396	-.04396
2168.0							.03240	.03240
2170.0							.02233	.02233
2172.0							-.09123	-.09123
2174.0							.04407	.04407
2176.0							-.07215	-.07215
2178.0							.06943	.06943

TWO WAY TRAVEL TIME MS	DEPTH FROM SRD (OR TOP) M	INTERVAL VELOCITY M/S	INTERVAL DENSITY G/C3	REFLECT. COEFF.	TWO WAY ATTEN. COEFF.	SYNTHETIC SEISMO. PRIMARY	PRIMARY + MULTIPLES	MULTIPLES ONLY
2180.0							-.00475	-.00475
2182.0							-.00866	-.00866
2184.0							-.02400	-.02400
2186.0							-.04788	-.04788
2188.0							-.04283	-.04283
2190.0							.05423	.05423
2192.0							.01574	.01574
2194.0							-.00167	-.00167
2196.0							.01298	.01298
2198.0							.03093	.03093
2200.0							.05117	.05117
2202.0							-.07755	-.07755
2204.0							.07613	.07613
2206.0							-.03036	-.03036
2208.0							-.05966	-.05966
2210.0							.02272	.02272
2212.0							-.00347	-.00347
2214.0							.00581	.00581
2216.0							.04085	.04085
2218.0							-.02343	-.02343
2220.0							-.01414	-.01414
2222.0							-.02022	-.02022
2224.0							-.09447	-.09447
2226.0							.06333	.06333

TWO WAY TRAVEL TIME MS	DEPTH FROM SRD (OR TOP) M	INTERVAL VELOCITY M/S	INTERVAL DENSITY G/C3	REFLECT. COEFF.	TWO WAY ATTEN. COEFF.	SYNTHETIC SEISMO. PRIMARY	PRIMARY + MULTIPLES	MULTIPLES ONLY
2228.0							.07657	.07657
2230.0							.00414	.00414
2232.0							-.06129	-.06129
2234.0							-.02508	-.02508
2236.0							-.03466	-.03466
2238.0							-.00161	-.00161
2240.0							.06623	.06623
2242.0							.03018	.03018
2244.0							-.06028	-.06028
2246.0							.06177	.06177
2248.0							-.04163	-.04163
2250.0							.03768	.03768
2252.0							.02589	.02589
2254.0							.03617	.03617
2256.0							-.04840	-.04840
2258.0							-.03953	-.03953
2260.0							-.04033	-.04033
2262.0							.05793	.05793
2264.0							-.01042	-.01042
2266.0							.04897	.04897
2268.0							-.00570	-.00570
2270.0							-.03734	-.03734
2272.0							.00408	.00408
2274.0							-.02724	-.02724
2276.0							-.05651	-.05651

TWO WAY TRAVEL TIME MS	DEPTH FROM SRD (OR TOP) M	INTERVAL VELOCITY M/S	INTERVAL DENSITY G/C3	REFLECT. COEFF.	TWO WAY ATTEN. COEFF.	SYNTHETIC SEISMO. PRIMARY	PRIMARY + MULTIPLES	MULTIPLES ONLY
2278.0							.06219	.06219
2280.0							.01378	.01378
2282.0							.03645	.03645
2284.0							-.11793	-.11793
2286.0							.02860	.02860
2288.0							.01699	.01699
2290.0							.05735	.05735
2292.0							-.01181	-.01181
2294.0							.02369	.02369
2296.0							-.01949	-.01949
2298.0							-.02773	-.02773
2300.0							.03106	.03106
2302.0							-.05950	-.05950
2304.0							.02962	.02962
2306.0							.02049	.02049
2308.0							-.03290	-.03290
2310.0							.01587	.01587
2312.0							.00338	.00338
2314.0							.01369	.01369
2316.0							.05093	.05093
2318.0							.02339	.02339
2320.0							-.00191	-.00191
2322.0							-.03038	-.03038
2324.0							.00277	.00277

TWO WAY TRAVEL TIME MS	DEPTH FROM SRD (OR TOP) M	INTERVAL VELOCITY M/S	INTERVAL DENSITY G/C3	REFLECT. COEFF.	TWO WAY ATTEN. COEFF.	SYNTHETIC SEISMO. PRIMARY	PRIMARY + MULTIPLES	MULTIPLES ONLY
2326.0							-.02846	-.02846
2328.0							-.06411	-.06411
2330.0							.00706	.00706
2332.0							.04197	.04197
2334.0							.02854	.02854
2336.0							.00678	.00678
2338.0							-.07885	-.07885
2340.0							.00243	.00243
2342.0							.03158	.03158
2344.0							-.01838	-.01838
2346.0							.07592	.07592
2348.0							-.02801	-.02801
2350.0							-.05470	-.05470
2352.0							.01927	.01927
2354.0							.09872	.09872
2356.0							.01847	.01847
2358.0							-.08970	-.08970
2360.0							.02490	.02490
2362.0							-.09623	-.09623
2364.0							.00723	.00723
2366.0							.03463	.03463
2368.0							.05012	.05012
2370.0							.03582	.03582
2372.0							-.10912	-.10912
2374.0							.04386	.04386

TWO WAY TRAVEL TIME MS	DEPTH FROM SRD (OR TOP) M	INTERVAL VELOCITY M/S	INTERVAL DENSITY G/C3	REFLECT. COEFF.	TWO WAY ATTEN. COEFF.	SYNTHETIC SEISMO. PRIMARY	PRIMARY + MULTIPLES	MULTIPLES ONLY
2376.0							.01790	.01790
2378.0							-.09229	-.09229
2380.0							.01017	.01017
2382.0							.02030	.02030
2384.0							-.02332	-.02332
2386.0							-.01307	-.01307
2388.0							.03902	.03902
2390.0							.08628	.08628
2392.0							-.03538	-.03538
2394.0							-.06226	-.06226
2396.0							.06202	.06202
2398.0							.01922	.01922
2400.0							-.02487	-.02487
2402.0							-.00886	-.00886
2404.0							.05787	.05787
2406.0							.02019	.02019
2408.0							-.12670	-.12670
2410.0							.05501	.05501
2412.0							.01644	.01644
2414.0							-.02859	-.02859
2416.0							.08683	.08683
2418.0							-.17269	-.17269
2420.0							.03767	.03767
2422.0							-.03554	-.03554

TWO WAY TRAVEL TIME MS	DEPTH FROM SRD (OR TOP) M	INTERVAL VELOCITY M/S	INTERVAL DENSITY G/C3	REFLECT. COEFF.	TWO WAY ATTEN. COEFF.	SYNTHETIC SEISMO. PRIMARY	PRIMARY + MULTIPLES	MULTIPLES ONLY
2424.0							-.01615	-.01615
2426.0							.07542	.07542
2428.0							.04509	.04509
2430.0							.08449	.08449
2432.0							-.05927	-.05927
2434.0							-.04429	-.04429
2436.0							.04627	.04627
2438.0							-.13028	-.13028
2440.0							.04474	.04474
2442.0							.04554	.04554
2444.0							.08001	.08001
2446.0							-.06079	-.06079
2448.0							.00025	.00025
2450.0							-.03270	-.03270
2452.0							-.01152	-.01152
2454.0							-.01437	-.01437
2456.0							.00962	.00962
2458.0							-.02212	-.02212
2460.0							.03545	.03545
2462.0							-.05834	-.05834
2464.0							-.00467	-.00467
2466.0							-.00759	-.00759
2468.0							.02433	.02433
2470.0							.11761	.11761
2472.0							-.00700	-.00700

TWO WAY TRAVEL TIME MS	DEPTH FROM SRD (OR TOP) M	INTERVAL VELOCITY M/S	INTERVAL DENSITY G/C3	REFLECT. COEFF.	TWO WAY ATTEN. COEFF.	SYNTHETIC SEISMO. PRIMARY	PRIMARY + MULTIPLES	MULTIPLES ONLY
2474.0							.01611	.01611
2476.0							-.03265	-.03265
2478.0							-.09944	-.09944
2480.0							-.03021	-.03021
2482.0							.05937	.05937
2484.0							.06823	.06823
2486.0							-.00596	-.00596
2488.0							.02257	.02257
2490.0							-.09101	-.09101
2492.0							.01321	.01321
2494.0							.01818	.01818
2496.0							-.04425	-.04425
2498.0							.05913	.05913
2500.0							.03692	.03692
2502.0							-.03761	-.03761
2504.0							.02711	.02711
2506.0							-.07891	-.07891
2508.0							.01802	.01802
2510.0							-.03919	-.03919
2512.0							.00921	.00921
2514.0							.06331	.06331
2516.0							-.05301	-.05301
2518.0							.02407	.02407
2520.0							.03847	.03847

TWO WAY TRAVEL TIME MS	DEPTH FROM SRD (OR TOP) M	INTERVAL VELOCITY M/S	INTERVAL DENSITY G/C3	REFLECT. COEFF.	TWO WAY ATTEN. COEFF.	SYNTHETIC SEISMO. PRIMARY	PRIMARY + MULTIPLES	MULTIPLES ONLY
2522.0							.02822	.02822
2524.0							-.05078	-.05078
2526.0							.00037	.00037
2528.0							.01450	.01450
2530.0							-.00713	-.00713
2532.0							-.04791	-.04791
2534.0							.00368	.00368
2536.0							.04143	.04143
2538.0							.01004	.01004
2540.0							-.04913	-.04913
2542.0							-.01572	-.01572
2544.0							-.00170	-.00170
2546.0							-.01935	-.01935
2548.0							-.00130	-.00130
2550.0							.05907	.05907
2552.0							.00630	.00630
2554.0							-.03291	-.03291

PE603194

This is an enclosure indicator page.
The enclosure PE603194 is enclosed within the container PE904904 at this location in this document.

The enclosure PE603194 has the following characteristics:

ITEM_BARCODE = PE603194
CONTAINER_BARCODE = PE904904
NAME = Drift Corrected Sonic
BASIN = GIPPSLAND
ON_OFF = OFFSHORE
PERMIT = VIC/P1
TYPE = WELL
SUBTYPE = LOG
DESCRIPTION = Harlequin 1 Drift Corrected Sonic. From appendix 5 of WCR volume 1.
REMARKS =
DATE_CREATED = 10/02/89
DATE_RECEIVED = 3/11/89
W_NO = W986
WELL_NAME = Harlequin 1
CONTRACTOR = Schlumberger
CLIENT_OP_CO = Esso Australia

(Inserted by DNRE - Vic Govt Mines Dept)

PE603195

This is an enclosure indicator page.
The enclosure PE603195 is enclosed within the container PE904904 at this location in this document.

The enclosure PE603195 has the following characteristics:

```
     ITEM_BARCODE = PE603195
CONTAINER_BARCODE = PE904904
             NAME = Seismic Calibration Log
            BASIN = GIPPSLAND
           ON_OFF = OFFSHORE
           PERMIT = VIC/P1
             TYPE = WELL
          SUBTYPE = LOG
      DESCRIPTION = Harlequin 1 Seismic Calibration Log
                    (Adjusted Continuous Velocity Log).
                    From appendix 5 of WCR volume 1.
          REMARKS =
     DATE_CREATED = 10/02/89
    DATE_RECEIVED = 3/11/89
             W_NO = W986
        WELL_NAME = Harlequin 1
       CONTRACTOR = Schlumberger
     CLIENT_OP_CO = Esso Australia
```

(Inserted by DNRE - Vic Govt Mines Dept)

PE603196

This is an enclosure indicator page.
The enclosure PE603196 is enclosed within the container PE904904 at this location in this document.

The enclosure PE603196 has the following characteristics:

```
     ITEM_BARCODE = PE603196
CONTAINER_BARCODE = PE904904
             NAME = Harlequin 1 Geogram
            BASIN = GIPPSLAND
           ON_OFF = OFFSHORE
           PERMIT = VIC/P1
             TYPE = WELL
          SUBTYPE = SYNTH_SEISMOGRAM
      DESCRIPTION = Harlequin 1 25 Hertz Zero Phase Geogram
                    (Synthetic Seismogram. From appendix 5
                    of WCR 1.
          REMARKS =
     DATE_CREATED = 10/02/89
    DATE_RECEIVED = 3/11/89
             W_NO = W986
        WELL_NAME = Harlequin 1
       CONTRACTOR = Schlumberger
     CLIENT_OP_CO = Esso Australia
```

(Inserted by DNRE - Vic Govt Mines Dept)

PE603197

This is an enclosure indicator page.
The enclosure PE603197 is enclosed within the container PE904904 at this location in this document.

The enclosure PE603197 has the following characteristics:

```
     ITEM_BARCODE = PE603197
CONTAINER_BARCODE = PE904904
             NAME = Harlequin 1 Geogram
            BASIN = GIPPSLAND
           ON_OFF = OFFSHORE
           PERMIT = VIC/P1
             TYPE = WELL
          SUBTYPE = SYNTH_SEISMOGRAM
      DESCRIPTION = Harlequin 1 35 Hertz Zero Phase Geogram
                    (Synthetic Seismogram. From appendix 5
                    of WCR 1.
          REMARKS =
     DATE_CREATED = 10/02/89
    DATE_RECEIVED = 3/11/89
             W_NO = W986
        WELL_NAME = Harlequin 1
       CONTRACTOR = Schlumberger
     CLIENT_OP_CO = Esso Australia
```

(Inserted by DNRE - Vic Govt Mines Dept)

PE603198

This is an enclosure indicator page.
The enclosure PE603198 is enclosed within the container PE904904 at this location in this document.

The enclosure PE603198 has the following characteristics:

```
     ITEM_BARCODE = PE603198
CONTAINER_BARCODE = PE904904
             NAME = Harlequin 1 Geogram
            BASIN = GIPPSLAND
           ON_OFF = OFFSHORE
           PERMIT = VIC/P1
             TYPE = WELL
          SUBTYPE = SYNTH_SEISMOGRAM
      DESCRIPTION = Harlequin 1 25 Hertz Minimum Phase
                    Geogram (Synthetic Seismogram. From
                    appendix 5 of WCR 1.
          REMARKS =
     DATE_CREATED = 10/02/89
    DATE_RECEIVED = 3/11/89
             W_NO = W986
        WELL_NAME = Harlequin 1
       CONTRACTOR = Schlumberger
     CLIENT_OP_CO = Esso Australia
```

(Inserted by DNRE - Vic Govt Mines Dept)

PE603199

This is an enclosure indicator page.
The enclosure PE603199 is enclosed within the container PE904904 at this location in this document.

The enclosure PE603199 has the following characteristics:

```
     ITEM_BARCODE = PE603199
CONTAINER_BARCODE = PE904904
             NAME = Harlequin 1 Geogram
            BASIN = GIPPSLAND
           ON_OFF = OFFSHORE
           PERMIT = VIC/P1
             TYPE = WELL
          SUBTYPE = SYNTH_SEISMOGRAM
      DESCRIPTION = Harlequin 1 35 Hertz Minimum Phase
                    Geogram (Synthetic Seismogram. From
                    appendix 5 of WCR 1.
          REMARKS =
     DATE_CREATED = 10/02/89
    DATE_RECEIVED = 3/11/89
             W_NO = W986
        WELL_NAME = Harlequin 1
       CONTRACTOR = Schlumberger
     CLIENT_OP_CO = Esso Australia
```

(Inserted by DNRE - Vic Govt Mines Dept)