SEISMIC COMPUTATIONS

SHOTS

DRIFT

TIME/DEP

Schlumberger

ESSO AUSTRALIA LTD.

GEOGRAM PROCESSING REPORT

ADMIRAL-1 07 MAR 1990

PETROLEUM DIVISION

FIELD : WILDCAT

COUNTRY : AUSTRALIA

COORDINATES : 038 deg 09' 12.2" S
148 deg 38' 50.7" E

DATE OF SURVEY : 03-DEC-1989

REFERENCE NO. : 540744

Contents

1. Introduction 1

2. Data Acquisition 2

3. Sonic Calibration Processing 3

3.1 Sonic Calibration 3

3.2 Checkshot Data 4

3.3 Correction to Datum 4

3.4 Open Hole Logs 4

3.5 Sonic Calibration Results 4

4. Synthetic Seismogram Processing 5

4.1 Depth to Time Conversion 5

4.2 Primary Reflection Coefficients 5

4.3 Primaries with Transmission Loss 6

4.4 Primaries plus Multiples 6

4.5 Multiples Only 6

4.6 Wavelet 6

4.7 Polarity Convention 6

4.8 Convolution 6

A Summary of Geophysical Listings 7

A1 Geophysical Airgun Report 7

A2 Drift Computation Report 7

A3 Sonic Adjustment Parameter Report 8

A4 Velocity Report 8

A5 Time Converted Velocity Report 9

A6 Synthetic Seismogram Table 10

List of Tables

1 Survey Parameters 2

2 Sonic Drift 4

List of Figures

1 Wavelet Polarity Convention . . . . . .
2 Stacked Checkshot Data . . . . . .

1. Introduction

A checkshot survey was shot in the ADMIRAL-1 well on 3 December 1989. Data was acquired using an airgun source located near the wellhead. Twenty-two checklevels were shot from 2160 metres to 835 metres below KB. Good quality data was obtained.

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	MSL
Elevation KB	21.0 metres AMSL
Elevation DF	20.7 metres AMSL
Elevation GL	-101 metres AMSL
Total Depth	2160 metres below KB
Energy Source	Airgun
Source Offset	40 metres
Source Depth	5.0 metres
Hydrophone Depth	10 metres
Reference Sensor	Hydrophone
Geophone	Geospace HS-1
	High Temp. (350 deg F)
	Coil Resist. 225Ω $\pm$10 %
	Natural Freq. 8-12 hertz
	Sensitivity 0.45 V/in/sec
	Maximum tilt angle 60 deg

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/m.

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 interval 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

Twenty-two checklevels were shot from 2160 metres to 835 metres below KB. Good quality data was obtained for all levels. The stacked checkshot data is displayed in Figure 2a.

3.3 Correction to Datum

The sonic calibration processing has been referenced to datum of MSL using a water velocity of 1540 m/s.

3.4 Open Hole Logs

The sonic log was recorded during two runs from 2160 metres to the casing shoe at 231 metres below KB. The sonic log is of good quality and has been edited for any noise spikes or cycle skipping. The density log was recorded during suite 2 from 2160 metres below KB to 820 metres below KB and is of good quality.

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

3.5 Sonic Calibration Results

The general trends of the points on the drift curve have been followed in formulating the calibration. Above 835 metres below KB there is no check level control and a zero shift has been applied over this interval. The adjusted sonic curve is considered to be the best interpretation of the available data.

Table 2: Sonic Drift

Depth Interval (metres below KB)	Block Shift μsec/m	Δt_{min} μsec/m	Reduction Factor G	Equiv Block Shift μsec/m
231-818	0.0	-	-	0.00
818-1237	14.32	-	-	14.32
1237-2160	-	269.43	.94	-1.95

4. Synthetic Seismogram Processing

GEOGRAM plots were generated using 25,35,45 Hz zero and 35 Hz minimum phase Ricker wavelets.

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.

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.

A1 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 metres from kelly bushing .
3. Vertical depth from SRD : *dsrd*, the depth in metres from seismic reference datum.
4. Vertical depth from GL : *dgl*, the depth in metres 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, $\frac{\Delta depth}{\Delta time}$.

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 metres from kelly bushing .
3. Vertical depth from SRD : the depth in metres from seismic reference datum.
4. Vertical depth from GL : the depth in metres 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 metres from kelly bushing .

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

4. Vertical depth from GL : the depth in metres 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 metres from kelly bushing .

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

4. Vertical depth from GL : the depth in metres 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.

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 (metres)
t = two way time (secs)
v_{rms} = rms velocity (metres /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.

A6 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)

SCHLUMBERGER (SEG-1976) WAVELET POLARITY CONVENTION

Figure 1

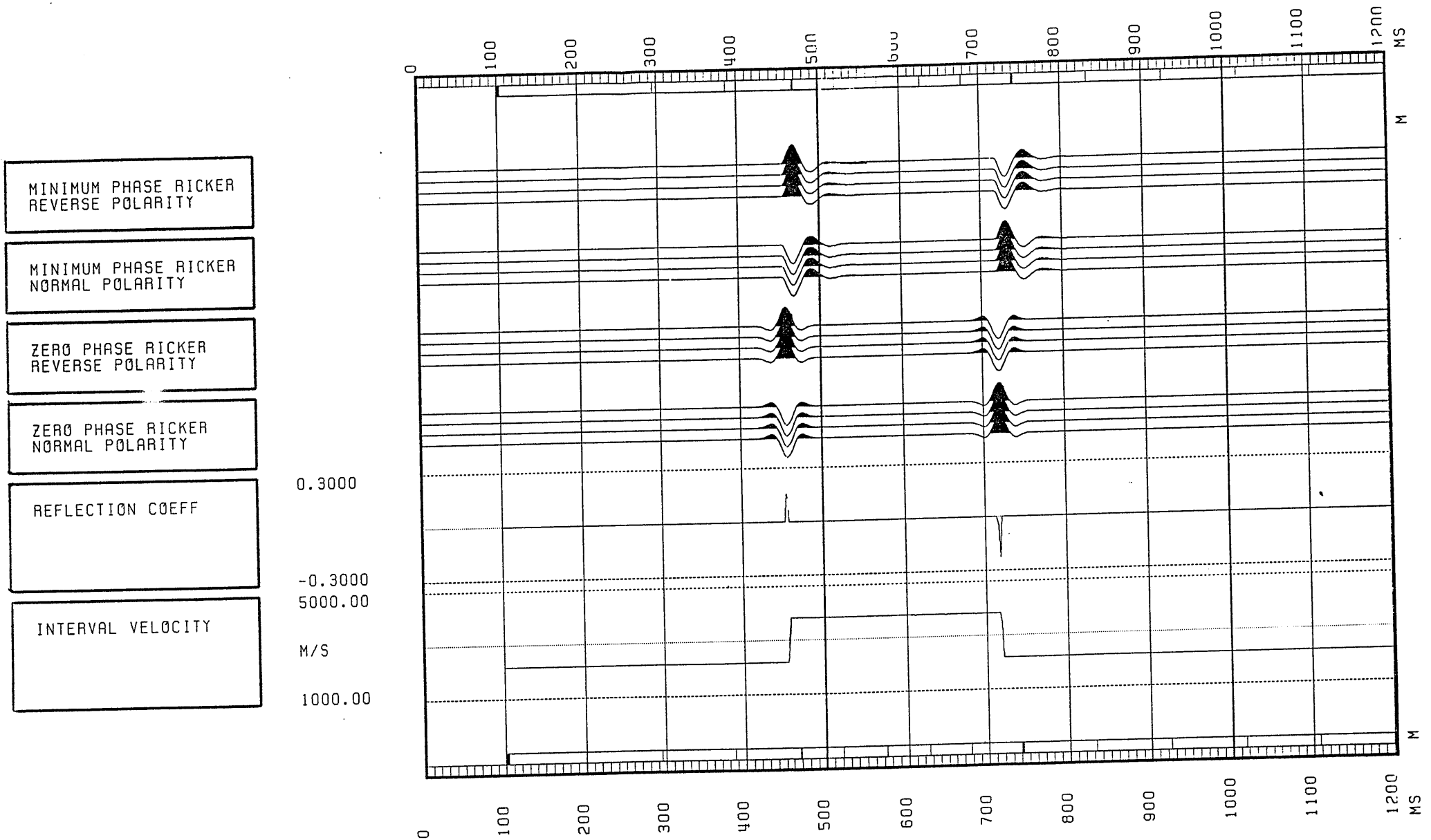
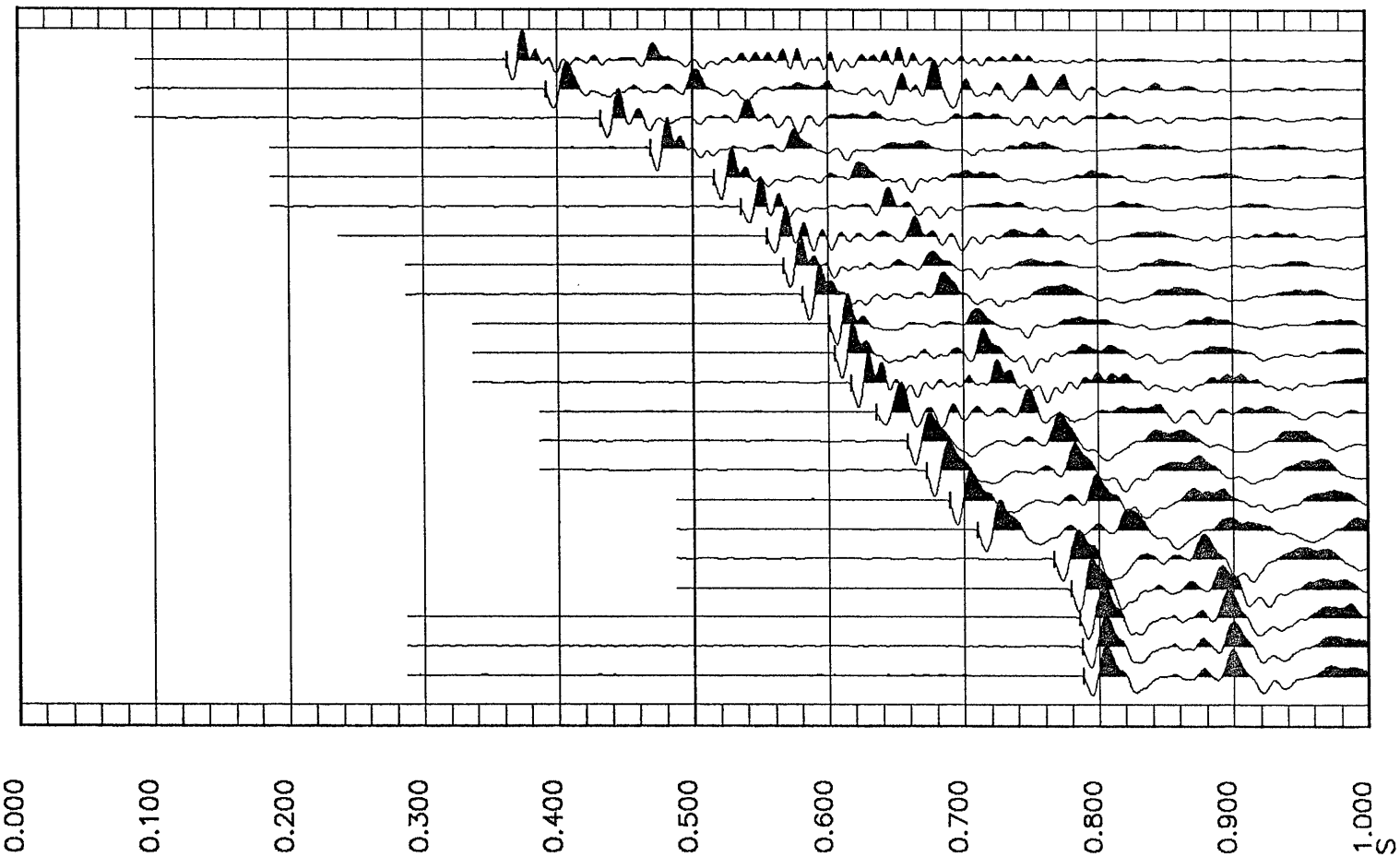


Figure 2

ADMIRAL-1
CHECKSHOT DATA

RAW DEPTH M	TRANSIT TIME S	LEVEL NO
835.0	0.363	22
915.0	0.392	21
1014.0	0.432	20
1109.0	0.469	19
1236.0	0.516	18
1293.0	0.536	17
1348.0	0.555	16
1386.0	0.567	15
1430.0	0.581	14
1492.0	0.601	13
1504.0	0.605	12
1540.0	0.617	11
1600.0	0.635	10
1682.0	0.658	9
1731.0	0.672	8
1786.0	0.689	7
1859.0	0.710	6
2070.0	0.766	5
2117.0	0.779	4
2150.0	0.785	3
2158.0	0.787	2
2160.0	0.788	1



SHOTS

ANALYST: K. MCPHAIL 2-JAN-90 21:43:53 PROGRAM: GSHOT 007.E08

SCHLUMBERGER

GEOPHYSICAL AIRGUN REPORT

COMPANY : ESSO AUSTRALIA LTD.

WELL : ADMIRAL-1

FIELD : WILDCAT

COUNTRY : AUSTRALIA

REFERENCE: 540744

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	: -101.000	M
VEL SOURCE-HYDRO(WST)	VELHYD	: 1540.00	M/S
VEL SOURCE-SRD (WST)	VELSUR	: 1540.00	M/S

(MATRIX PARAMETERS)

	SOURCE ELV M	SOURCE EW M	SOURCE NS M	HYDRO ELEV M	HYDRO EW M	HYDRO NS M
1	-5.00	34.64	20.00	-10.00	34.64	20.00

	TRT HYD-SC MS	TRT SC-SRD MS
1	3.25	3.25

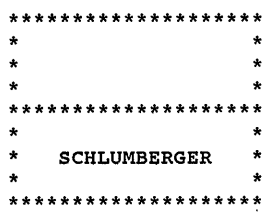
	MD @ KB M	VD @ KB M	VD @ SRD M	E-W COORD M	N-S COORD M
1	122.00	122.00	101.00	0	0
2	231.19	231.19	210.19	0	0
3	835.00	835.00	814.00	0	0
4	915.00	915.00	894.00	0	0
5	1014.00	1014.00	993.00	0	0
6	1109.00	1109.00	1088.00	0	0
7	1236.00	1236.00	1215.00	0	0
8	1293.00	1293.00	1272.00	0	0
9	1348.00	1348.00	1327.00	0	0
10	1386.00	1386.00	1365.00	0	0
11	1430.00	1430.00	1409.00	0	0
12	1492.00	1492.00	1471.00	0	0
13	1504.00	1504.00	1483.00	0	0
14	1540.00	1540.00	1519.00	0	0
15	1600.00	1600.00	1579.00	0	0
16	1682.00	1682.00	1661.00	0	0
17	1731.00	1731.00	1710.00	0	0
18	1786.00	1786.00	1765.00	0	0
19	1859.00	1859.00	1838.00	0	0
20	2070.00	2070.00	2049.00	0	0
21	2117.00	2117.00	2096.00	0	0
22	2150.00	2150.00	2129.00	0	0
23	2160.00	2160.00	2139.00	0	0

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	122.00	101.00	0	64.28	62.33	65.58	1540			
								109.19	67.77	1611
2	231.19	210.19	109.19	129.30	130.10	133.34	1576			
								603.81	235.22	2567
3	835.00	814.00	713.00	362.52	365.32	368.57	2209			
								80.00	29.24	2736
4	915.00	894.00	793.00	391.71	394.56	397.80	2247			
								99.00	40.30	2456
5	1014.00	993.00	892.00	431.97	434.86	438.11	2267			
								95.00	36.72	2587
6	1109.00	1088.00	987.00	468.66	471.59	474.83	2291			
								127.00	47.28	2686
7	1236.00	1215.00	1114.00	515.90	518.86	522.11	2327			
								57.00	19.93	2859
8	1293.00	1272.00	1171.00	535.82	538.80	542.05	2347			
								55.00	18.80	2925
9	1348.00	1327.00	1226.00	554.61	557.60	560.85	2366			
								38.00	11.95	3180
10	1386.00	1365.00	1264.00	566.55	569.55	572.80	2383			
								44.00	14.02	3138
11	1430.00	1409.00	1308.00	580.56	583.57	586.82	2401			
								62.00	20.47	3029
12	1492.00	1471.00	1370.00	601.02	604.04	607.29	2422			
								12.00	3.82	3140
13	1504.00	1483.00	1382.00	604.84	607.86	611.11	2427			
								36.00	11.92	3021
14	1540.00	1519.00	1418.00	616.75	619.78	623.03	2438			
								60.00	18.62	3222
15	1600.00	1579.00	1478.00	635.36	638.40	641.65	2461			
								82.00	22.74	3605
16	1682.00	1661.00	1560.00	658.09	661.14	664.39	2500			
								49.00	14.12	3471
17	1731.00	1710.00	1609.00	672.20	675.26	678.51	2520			
								55.00	16.90	3255
18	1786.00	1765.00	1664.00	689.09	692.16	695.40	2538			
								73.00	20.62	3540
19	1859.00	1838.00	1737.00	709.70	712.78	716.02	2567			
								211.00	56.57	3730
20	2070.00	2049.00	1948.00	766.25	769.35	772.60	2652			
								47.00	12.28	3826
21	2117.00	2096.00	1995.00	778.53	781.63	784.88	2670			
								33.00	6.64	4967
22	2150.00	2129.00	2028.00	785.17	788.28	791.52	2690			
								10.00	2.65	3772
23	2160.00	2139.00	2038.00	787.82	790.93	794.17	2693			

?C

DRIFT

ANALYST: K. MCPHAIL 2-JAN-90 21:49:52 PROGRAM: GDRIFT 007.E09



DRIFT COMPUTATION REPORT

COMPANY : ESSO AUSTRALIA LTD.

WELL : ADMIRAL-1

FIELD : WILDCAT

COUNTRY : AUSTRALIA

REFERENCE: 540744

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	-101.000	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	0	G/C3	0	-	0

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/M
1	122.00	101.00	0	65.58	65.58	0	0
2	231.19	210.19	109.19	133.34	133.34	0	0
3	835.00	814.00	713.00	368.57	368.56	.01	.01
4	915.00	894.00	793.00	397.80	397.04	.76	9.42
5	1014.00	993.00	892.00	438.11	435.66	2.44	17.00
6	1109.00	1088.00	987.00	474.83	470.85	3.99	16.23
7	1236.00	1215.00	1114.00	522.11	516.05	6.06	16.37
8	1293.00	1272.00	1171.00	542.05	534.97	7.07	17.65
9	1348.00	1327.00	1226.00	560.85	553.30	7.54	8.61
10	1386.00	1365.00	1264.00	572.80	566.68	6.11	-37.64
11	1430.00	1409.00	1308.00	586.82	581.16	5.65	-10.48
12	1492.00	1471.00	1370.00	607.29	601.28	6.01	5.78
13	1504.00	1483.00	1382.00	611.11	606.12	4.99	-85.30
14	1540.00	1519.00	1418.00	623.03	617.33	5.70	19.80
15	1600.00	1579.00	1478.00	641.65	635.64	6.01	5.10
16	1682.00	1661.00	1560.00	664.39	659.78	4.61	-17.02
17	1731.00	1710.00	1609.00	678.51	673.87	4.64	.58
18	1786.00	1765.00	1664.00	695.40	689.92	5.49	15.44
19	1859.00	1838.00	1737.00	716.02	710.93	5.10	-5.36
20	2070.00	2049.00	1948.00	772.60	769.15	3.45	-7.80
21	2117.00	2096.00	1995.00	784.88	780.72	4.16	14.99
22	2150.00	2129.00	2028.00	791.52	787.51	4.01	-4.36
23	2160.00	2139.00	2038.00	794.17	789.57	4.61	59.73

?C

ANALYST: K. MCPHAIL 3-JAN-90 09:38:47 PROGRAM: GADJST 008.E08

SONIC ADJUSTMENT PARAMETER REPORT

COMPANY : ESSO AUSTRALIA LTD.

WELL : ADMIRAL-1

FIELD : WILDCAT

COUNTRY : AUSTRALIA

REFERENCE: 540744

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

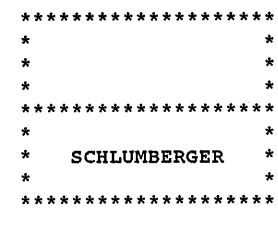
SAMPLED

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	: 24.6063	US/M
UNIFORM EARTH VELOCITY	UNERTH	: 1540.00	M/S

(ZONED PARAMETERS)		(VALUE)		(LIMITS)	
USER DRIFT ZONE (WST)	ZDRIFT	: 4.200000	MS	2160.00	- 2159.80
		4.200000		2159.80	1237.00
		6.000000		1237.00	818.000
		0		818.000	231.190
		0		231.190	0
ADJUSMNT MODE (WST)	ADJOPZ	:-999.2500		30479.7	- 0
USER DELTA-T MIN (WST)	ADJUSZ	:-999.2500	US/M	30479.7	- 0
LAYER OPTION FLAG VELOC	LOFVEL	: 1.000000		30479.7	- 0
USER VELOC (WST)	LAYVEL	: 1609.000	M/S	231.190	- 122.000
		1540.000		122.000	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/M	DELTA-T MINIMUM USED US/M	REDUCTION FACTOR G	EQUIVALENT BLOCKSHIFT US/M
					0			0
2	231.19	210.19	109.19	0				
					0			0
3	818.00	797.00	696.00	0				
					14.32			14.32
4	1237.00	1216.00	1115.00	6.00				
						269.43	.94	-1.95
5	2159.80	2138.80	2037.80	4.20				
					0			0
6	2160.00	2139.00	2038.00	4.20				



VELOCITY REPORT

COMPANY : ESSO AUSTRALIA LTD.

WELL : ADMIRAL-1

FIELD : WILDCAT

COUNTRY : AUSTRALIA

REFERENCE: 540744

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	-101.000	M
UNIFORM EARTH VELOCITY	UNERTH	1540.00	M/S

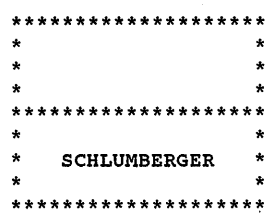
(ZONED PARAMETERS)		(VALUE)		(LIMITS)	
LAYER OPTION FLAG VELOC	LOFVEL	1.000000		30479.7 -	0
USER VELOC (WST)	LAYVEL	1609.000	M/S	231.190 -	122.000
		1540.000		122.000	0

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
								1540
1	122.00	101.00	0	65.58	65.58	0	0	
								1611
2	231.19	210.19	109.19	133.34	133.34	0	0	
								2564
3	835.00	814.00	713.00	368.57	368.80	.01	-.23	
								2700
4	915.00	894.00	793.00	397.80	398.42	.76	-.62	
								2473
5	1014.00	993.00	892.00	438.11	438.46	2.44	-.36	
								2600
6	1109.00	1088.00	987.00	474.83	475.00	3.99	-.17	
								2701
7	1236.00	1215.00	1114.00	522.11	522.02	6.06	.09	
								3044
8	1293.00	1272.00	1171.00	542.05	540.75	7.07	1.29	
								3037
9	1348.00	1327.00	1226.00	560.85	558.86	7.54	1.99	
								2882
10	1386.00	1365.00	1264.00	572.80	572.04	6.11	.75	
								3073
11	1430.00	1409.00	1308.00	586.82	586.36	5.65	.46	
								3115
12	1492.00	1471.00	1370.00	607.29	606.26	6.01	1.03	
								2529
13	1504.00	1483.00	1382.00	611.11	611.01	4.99	.10	
								3240
14	1540.00	1519.00	1418.00	623.03	622.12	5.70	.91	
								3300
15	1600.00	1579.00	1478.00	641.65	640.30	6.01	1.35	
								3415
16	1682.00	1661.00	1560.00	664.39	664.31	4.61	.08	
								3492
17	1731.00	1710.00	1609.00	678.51	678.34	4.64	.16	
								3445
18	1786.00	1765.00	1664.00	695.40	694.31	5.49	1.09	
								3488
19	1859.00	1838.00	1737.00	716.02	715.24	5.10	.79	
								3632
20	2070.00	2049.00	1948.00	772.60	773.33	3.45	-.74	
								4059
21	2117.00	2096.00	1995.00	784.88	784.91	4.16	-.03	
								4863
22	2150.00	2129.00	2028.00	791.52	791.70	4.01	-.18	
								4885
23	2160.00	2139.00	2038.00	794.17	793.75	4.61	.43	

?C

TIME/DEPTH

ANALYST: K. MCPHAIL 3-JAN-90 09:43:06 PROGRAM: GTRFRM 001.E12



TIME CONVERTED VELOCITY REPORT

COMPANY : ESSO AUSTRALIA LTD.

WELL : ADMIRAL-1

FIELD : WILDCAT

COUNTRY : AUSTRALIA

REFERENCE: 540744

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
DKB - MEASURED DEPTH FROM KELLY-BUSHING
DSRD - Depth from SRD
AVGV - Average seismic velocity
RMSV - Root Mean Square Velocity (Seismic)
MVOT - NORMAL MOVE-OUT
MVOT - NORMAL MOVE-OUT
MVOT - 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 :	-101.000	M
UNIFORM EARTH VELOCITY	UNERTH :	1540.00	M/S
UNIFORM DENSITY VALUE	UNFDEN :	2.30000	G/C3

(MATRIX PARAMETERS)

	MVOUT DIST M
1	1000.0
2	1500.0
3	2000.0

(ZONED PARAMETERS)		(VALUE)		(LIMITS)
LAYER OPTION FLAG VELOC	LOFVEL	: 1.000000		30479.7 - 0
USER VELOC (WST)	LAYVEL	: 1609.000	M/S	231.190 - 122.000
		1540.000		122.000 0
LAYER OPTION FLAG DENS	LOFDEN	:-1.000000		30479.7 - 0
USER SUPPLIED DENSITY DA	LAYDEN	: 0	G/C3	0 - 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
								1540
0	21.00	0						1540
2.00	22.54	1.54	1540	1540	647.35	972.03	1296.70	1540
4.00	24.08	3.08	1540	1540	645.36	970.03	1294.71	1540
6.00	25.62	4.62	1540	1540	643.38	968.04	1292.72	1540
8.00	27.16	6.16	1540	1540	641.40	966.06	1290.73	1540
10.00	28.70	7.70	1540	1540	639.43	964.08	1288.74	1540
12.00	30.24	9.24	1540	1540	637.46	962.10	1286.76	1540
14.00	31.78	10.78	1540	1540	635.50	960.13	1284.78	1540
16.00	33.32	12.32	1540	1540	633.55	958.16	1282.80	1540
18.00	34.86	13.86	1540	1540	631.60	956.19	1280.83	1540
20.00	36.40	15.40	1540	1540	629.66	954.23	1278.86	1540
22.00	37.94	16.94	1540	1540	627.72	952.27	1276.89	1540
24.00	39.48	18.48	1540	1540	625.79	950.32	1274.92	1540
26.00	41.02	20.02	1540	1540	623.87	948.37	1272.96	1540
28.00	42.56	21.56	1540	1540	621.95	946.43	1271.00	1540
30.00	44.10	23.10	1540	1540	620.04	944.49	1269.05	1540
32.00	45.64	24.64	1540	1540	618.14	942.55	1267.10	1540
34.00	47.18	26.18	1540	1540	616.24	940.62	1265.15	1540
36.00	48.72	27.72	1540	1540	614.35	938.69	1263.20	1540
38.00	50.26	29.26	1540	1540	612.46	936.77	1261.26	1540
40.00	51.80	30.80	1540	1540	610.58	934.85	1259.32	1540
42.00	53.34	32.34	1540	1540	608.71	932.93	1257.38	1540
44.00	54.88	33.88	1540	1540	606.84	931.02	1255.45	1540
46.00	56.42	35.42	1540	1540	604.98	929.11	1253.52	

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
								1540
48.00	57.96	36.96	1540	1540	603.12	927.21	1251.59	
								1540
50.00	59.50	38.50	1540	1540	601.27	925.31	1249.66	
								1540
52.00	61.04	40.04	1540	1540	599.43	923.41	1247.74	
								1540
54.00	62.58	41.58	1540	1540	597.59	921.52	1245.82	
								1540
56.00	64.12	43.12	1540	1540	595.76	919.63	1243.91	
								1540
58.00	65.66	44.66	1540	1540	593.94	917.75	1242.00	
								1540
60.00	67.20	46.20	1540	1540	592.12	915.87	1240.09	
								1540
62.00	68.74	47.74	1540	1540	590.30	914.00	1238.18	
								1540
64.00	70.28	49.28	1540	1540	588.50	912.13	1236.28	
								1540
66.00	71.82	50.82	1540	1540	586.70	910.26	1234.38	
								1540
68.00	73.36	52.36	1540	1540	584.90	908.40	1232.48	
								1540
70.00	74.90	53.90	1540	1540	583.11	906.54	1230.59	
								1540
72.00	76.44	55.44	1540	1540	581.33	904.68	1228.70	
								1540
74.00	77.98	56.98	1540	1540	579.55	902.83	1226.81	
								1540
76.00	79.52	58.52	1540	1540	577.78	900.99	1224.92	
								1540
78.00	81.06	60.06	1540	1540	576.02	899.14	1223.04	
								1540
80.00	82.60	61.60	1540	1540	574.26	897.31	1221.16	
								1540
82.00	84.14	63.14	1540	1540	572.51	895.47	1219.29	
								1540
84.00	85.68	64.68	1540	1540	570.76	893.64	1217.42	
								1540
86.00	87.22	66.22	1540	1540	569.02	891.82	1215.55	
								1540
88.00	88.76	67.76	1540	1540	567.29	889.99	1213.68	
								1540
90.00	90.30	69.30	1540	1540	565.56	888.18	1211.82	
								1540
92.00	91.84	70.84	1540	1540	563.84	886.36	1209.96	
								1540
94.00	93.38	72.38	1540	1540	562.12	884.55	1208.10	

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
								1540
96.00	94.92	73.92	1540	1540	560.41	882.75	1206.24	
								1540
98.00	96.46	75.46	1540	1540	558.70	880.94	1204.39	
								1540
100.00	98.00	77.00	1540	1540	557.01	879.15	1202.55	
								1540
102.00	99.54	78.54	1540	1540	555.31	877.35	1200.70	
								1540
104.00	101.08	80.08	1540	1540	553.63	875.56	1198.86	
								1540
106.00	102.62	81.62	1540	1540	551.95	873.78	1197.02	
								1540
108.00	104.16	83.16	1540	1540	550.27	872.00	1195.18	
								1540
110.00	105.70	84.70	1540	1540	548.60	870.22	1193.35	
								1540
112.00	107.24	86.24	1540	1540	546.94	868.44	1191.52	
								1540
114.00	108.78	87.78	1540	1540	545.28	866.67	1189.70	
								1540
116.00	110.32	89.32	1540	1540	543.63	864.91	1187.87	
								1540
118.00	111.86	90.86	1540	1540	541.99	863.15	1186.05	
								1540
120.00	113.40	92.40	1540	1540	540.35	861.39	1184.23	
								1540
122.00	114.94	93.94	1540	1540	538.71	859.64	1182.42	
								1540
124.00	116.48	95.48	1540	1540	537.08	857.89	1180.61	
								1540
126.00	118.02	97.02	1540	1540	535.46	856.14	1178.80	
								1540
128.00	119.56	98.56	1540	1540	533.85	854.40	1176.99	
								1540
130.00	121.10	100.10	1540	1540	532.24	852.66	1175.19	
								1575
132.00	122.67	101.67	1541	1541	530.41	850.60	1172.95	
								1611
134.00	124.29	103.29	1542	1542	528.37	848.19	1170.24	
								1611
136.00	125.90	104.90	1543	1543	526.34	845.81	1167.58	
								1611
138.00	127.51	106.51	1544	1544	524.34	843.46	1164.94	
								1611
140.00	129.12	108.12	1545	1545	522.35	841.13	1162.33	
								1611
142.00	130.73	109.73	1546	1546	520.39	838.82	1159.75	

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
								1611
144.00	132.34	111.34	1546	1547	518.44	836.53	1157.19	
								1611
146.00	133.95	112.95	1547	1547	516.51	834.26	1154.66	
								1611
148.00	135.57	114.57	1548	1548	514.59	832.02	1152.16	
								1611
150.00	137.18	116.18	1549	1549	512.70	829.80	1149.68	
								1611
152.00	138.79	117.79	1550	1550	510.81	827.59	1147.22	
								1611
154.00	140.40	119.40	1551	1551	508.95	825.40	1144.79	
								1611
156.00	142.01	121.01	1551	1552	507.10	823.23	1142.37	
								1611
158.00	143.62	122.62	1552	1552	505.26	821.08	1139.98	
								1611
160.00	145.23	124.23	1553	1553	503.44	818.94	1137.61	
								1611
162.00	146.84	125.84	1554	1554	501.63	816.82	1135.26	
								1611
164.00	148.46	127.46	1554	1555	499.83	814.72	1132.92	
								1611
166.00	150.07	129.07	1555	1555	498.05	812.63	1130.61	
								1611
168.00	151.68	130.68	1556	1556	496.28	810.56	1128.31	
								1611
170.00	153.29	132.29	1556	1557	494.53	808.50	1126.03	
								1611
172.00	154.90	133.90	1557	1557	492.78	806.46	1123.76	
								1611
174.00	156.51	135.51	1558	1558	491.05	804.43	1121.51	
								1611
176.00	158.12	137.12	1558	1559	489.33	802.41	1119.28	
								1611
178.00	159.73	138.73	1559	1559	487.63	800.40	1117.06	
								1611
180.00	161.35	140.35	1559	1560	485.93	798.41	1114.86	
								1611
182.00	162.96	141.96	1560	1560	484.25	796.43	1112.67	
								1611
184.00	164.57	143.57	1561	1561	482.57	794.47	1110.49	
								1611
186.00	166.18	145.18	1561	1561	480.91	792.51	1108.33	
								1611
188.00	167.79	146.79	1562	1562	479.26	790.57	1106.18	
								1611
190.00	169.40	148.40	1562	1562	477.62	788.64	1104.05	

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
192.00	171.01	150.01	1563	1563	475.99	786.72	1101.92	1611
194.00	172.62	151.62	1563	1563	474.37	784.81	1099.81	1611
196.00	174.24	153.24	1564	1564	472.76	782.91	1097.71	1611
198.00	175.85	154.85	1564	1564	471.16	781.02	1095.63	1611
200.00	177.46	156.46	1565	1565	469.57	779.14	1093.55	1611
202.00	179.07	158.07	1565	1565	467.98	777.27	1091.49	1611
204.00	180.68	159.68	1566	1566	466.41	775.41	1089.43	1611
206.00	182.29	161.29	1566	1566	464.85	773.56	1087.39	1611
208.00	183.90	162.90	1566	1567	463.30	771.73	1085.36	1611
210.00	185.52	164.52	1567	1567	461.75	769.89	1083.33	1611
212.00	187.13	166.13	1567	1568	460.22	768.07	1081.32	1611
214.00	188.74	167.74	1568	1568	458.69	766.26	1079.32	1611
216.00	190.35	169.35	1568	1568	457.17	764.46	1077.33	1611
218.00	191.96	170.96	1568	1569	455.67	762.66	1075.34	1611
220.00	193.57	172.57	1569	1569	454.17	760.88	1073.37	1611
222.00	195.18	174.18	1569	1570	452.67	759.10	1071.40	1611
224.00	196.79	175.79	1570	1570	451.19	757.33	1069.44	1611
226.00	198.41	177.41	1570	1570	449.71	755.57	1067.50	1611
228.00	200.02	179.02	1570	1571	448.25	753.82	1065.56	1611
230.00	201.63	180.63	1571	1571	446.79	752.07	1063.63	1611
232.00	203.24	182.24	1571	1571	445.34	750.34	1061.70	1611
234.00	204.85	183.85	1571	1572	443.89	748.61	1059.79	1611
236.00	206.46	185.46	1572	1572	442.46	746.89	1057.88	1611
238.00	208.07	187.07	1572	1572	441.03	745.17	1055.98	

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
								1611
240.00	209.68	188.68	1572	1573	439.61	743.47	1054.09	
								1611
242.00	211.30	190.30	1573	1573	438.20	741.77	1052.21	
								1611
244.00	212.91	191.91	1573	1573	436.79	740.07	1050.33	
								1611
246.00	214.52	193.52	1573	1574	435.39	738.39	1048.46	
								1611
248.00	216.13	195.13	1574	1574	434.00	736.71	1046.60	
								1611
250.00	217.74	196.74	1574	1574	432.62	735.04	1044.75	
								1611
252.00	219.35	198.35	1574	1575	431.24	733.38	1042.90	
								1611
254.00	220.96	199.96	1575	1575	429.87	731.72	1041.06	
								1611
256.00	222.58	201.58	1575	1575	428.51	730.07	1039.23	
								1611
258.00	224.19	203.19	1575	1575	427.16	728.42	1037.40	
								1611
260.00	225.80	204.80	1575	1576	425.81	726.79	1035.58	
								1611
262.00	227.41	206.41	1576	1576	424.47	725.16	1033.77	
								1611
264.00	229.02	208.02	1576	1576	423.13	723.53	1031.96	
								1611
266.00	230.63	209.63	1576	1577	421.80	721.91	1030.16	
								1799
268.00	232.43	211.43	1578	1578	419.92	719.42	1027.17	
								1957
270.00	234.39	213.39	1581	1581	417.55	716.15	1023.13	
								1906
272.00	236.29	215.29	1583	1584	415.37	713.19	1019.50	
								1943
274.00	238.24	217.24	1586	1587	413.10	710.07	1015.65	
								1931
276.00	240.17	219.17	1588	1590	410.90	707.06	1011.95	
								1861
278.00	242.03	221.03	1590	1592	408.94	704.42	1008.74	
								1936
280.00	243.97	222.97	1593	1595	406.77	701.44	1005.08	
								1920
282.00	245.89	224.89	1595	1597	404.68	698.58	1001.57	
								1923
284.00	247.81	226.81	1597	1600	402.60	695.74	998.08	
								1977
286.00	249.79	228.79	1600	1603	400.39	692.67	994.28	

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
								1978
288.00	251.76	230.76	1603	1606	398.20	689.63	990.53	
								1957
290.00	253.72	232.72	1605	1608	396.10	686.74	986.96	
								1940
292.00	255.66	234.66	1607	1611	394.07	683.95	983.53	
								1942
294.00	257.60	236.60	1610	1613	392.06	681.18	980.12	
								1954
296.00	259.56	238.56	1612	1616	390.04	678.39	976.69	
								1953
298.00	261.51	240.51	1614	1618	388.04	675.63	973.30	
								1922
300.00	263.43	242.43	1616	1621	386.15	673.04	970.12	
								1914
302.00	265.35	244.35	1618	1623	384.30	670.51	967.03	
								1900
304.00	267.25	246.25	1620	1625	382.51	668.06	964.05	
								1948
306.00	269.19	248.19	1622	1627	380.61	665.44	960.83	
								2061
308.00	271.26	250.26	1625	1630	378.43	662.36	956.98	
								1943
310.00	273.20	252.20	1627	1632	376.59	659.81	953.85	
								1975
312.00	275.17	254.17	1629	1635	374.69	657.16	950.58	
								1917
314.00	277.09	256.09	1631	1637	372.95	654.77	947.66	
								1894
316.00	278.99	257.99	1633	1638	371.28	652.50	944.90	
								1907
318.00	280.89	259.89	1635	1640	369.60	650.19	942.09	
								1939
320.00	282.83	261.83	1636	1642	367.86	647.78	939.13	
								1947
322.00	284.78	263.78	1638	1644	366.12	645.36	936.16	
								1954
324.00	286.73	265.73	1640	1646	364.38	642.94	933.18	
								2002
326.00	288.73	267.73	1643	1649	362.54	640.35	929.98	
								2178
328.00	290.91	269.91	1646	1653	360.28	637.09	925.86	
								2070
330.00	292.98	271.98	1648	1655	358.32	634.31	922.37	
								2334
332.00	295.32	274.32	1653	1660	355.71	630.48	917.45	
								1993
334.00	297.31	276.31	1655	1663	353.99	628.05	914.46	

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
								2224
336.00	299.53	278.53	1658	1666	351.73	624.77	910.28	
								2290
338.00	301.82	280.82	1662	1671	349.34	621.27	905.80	
								2415
340.00	304.24	283.24	1666	1676	346.67	617.30	900.67	
								2208
342.00	306.44	285.44	1669	1680	344.56	614.22	896.77	
								2278
344.00	308.72	287.72	1673	1684	342.30	610.91	892.54	
								2167
346.00	310.89	289.89	1676	1687	340.34	608.06	888.94	
								2404
348.00	313.29	292.29	1680	1692	337.84	604.35	884.15	
								2174
350.00	315.47	294.47	1683	1695	335.91	601.55	880.62	
								2434
352.00	317.90	296.90	1687	1700	333.42	597.82	875.79	
								2060
354.00	319.96	298.96	1689	1703	331.78	595.48	872.88	
								2455
356.00	322.42	301.42	1693	1708	329.30	591.77	868.07	
								2279
358.00	324.70	303.70	1697	1711	327.26	588.75	864.22	
								2401
360.00	327.10	306.10	1701	1716	324.97	585.34	859.81	
								2512
362.00	329.61	308.61	1705	1721	322.47	581.57	854.91	
								2358
364.00	331.97	310.97	1709	1726	320.35	578.41	850.85	
								2522
366.00	334.49	313.49	1713	1731	317.90	574.71	846.03	
								2446
368.00	336.94	315.94	1717	1736	315.66	571.33	841.67	
								2253
370.00	339.19	318.19	1720	1739	313.84	568.65	838.25	
								2418
372.00	341.61	320.61	1724	1743	311.72	565.46	834.13	
								2328
374.00	343.93	322.93	1727	1747	309.81	562.61	830.47	
								2385
376.00	346.32	325.32	1730	1751	307.81	559.61	826.60	
								2596
378.00	348.91	327.91	1735	1756	305.41	555.94	821.81	
								2379
380.00	351.29	330.29	1738	1760	303.48	553.05	818.07	
								2652
382.00	353.95	332.95	1743	1766	301.03	549.29	813.15	

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
								2574
384.00	356.52	335.52	1747	1771	298.79	545.86	808.66	
								2674
386.00	359.19	338.19	1752	1777	296.38	542.15	803.79	
								2480
388.00	361.67	340.67	1756	1781	294.39	539.12	799.85	
								2570
390.00	364.24	343.24	1760	1786	292.26	535.85	795.58	
								2351
392.00	366.59	345.59	1763	1790	290.55	533.27	792.27	
								2351
394.00	368.94	347.94	1766	1793	288.86	530.73	789.00	
								2492
396.00	371.44	350.44	1770	1797	286.95	527.81	785.20	
								2510
398.00	373.95	352.95	1774	1801	285.04	524.88	781.38	
								2678
400.00	376.62	355.63	1778	1807	282.85	521.48	776.91	
								2226
402.00	378.85	357.85	1780	1809	281.45	519.39	774.26	
								2736
404.00	381.59	360.59	1785	1815	279.21	515.91	769.65	
								2470
406.00	384.06	363.06	1788	1819	277.47	513.23	766.18	
								2386
408.00	386.44	365.44	1791	1822	275.88	510.82	763.05	
								2504
410.00	388.95	367.95	1795	1826	274.12	508.11	759.53	
								2435
412.00	391.38	370.38	1798	1829	272.50	505.63	756.30	
								2532
414.00	393.91	372.91	1802	1833	270.75	502.91	752.76	
								2310
416.00	396.22	375.22	1804	1836	269.35	500.79	750.03	
								2580
418.00	398.80	377.80	1808	1840	267.56	498.01	746.39	
								2637
420.00	401.44	380.44	1812	1845	265.71	495.12	742.58	
								2531
422.00	403.97	382.97	1815	1849	264.04	492.53	739.19	
								2653
424.00	406.62	385.62	1819	1853	262.22	489.67	735.42	
								2506
426.00	409.13	388.13	1822	1857	260.63	487.21	732.20	
								2428
428.00	411.56	390.56	1825	1860	259.18	484.96	729.29	
								2661
430.00	414.22	393.22	1829	1865	257.41	482.18	725.61	

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
								2483
432.00	416.70	395.70	1832	1868	255.92	479.86	722.58	
								2687
434.00	419.39	398.39	1836	1873	254.15	477.07	718.89	
								2548
436.00	421.94	400.94	1839	1876	252.61	474.66	715.72	
								2681
438.00	424.62	403.62	1843	1881	250.90	471.96	712.14	
								2580
440.00	427.20	406.20	1846	1884	249.36	469.53	708.94	
								2619
442.00	429.82	408.82	1850	1888	247.78	467.03	705.65	
								2618
444.00	432.44	411.44	1853	1892	246.22	464.57	702.40	
								2714
446.00	435.15	414.15	1857	1897	244.56	461.92	698.88	
								2681
448.00	437.83	416.83	1861	1901	242.96	459.38	695.50	
								2514
450.00	440.34	419.34	1864	1904	241.60	457.23	692.68	
								2714
452.00	443.06	422.06	1868	1908	240.00	454.67	689.28	
								2707
454.00	445.76	424.76	1871	1913	238.42	452.16	685.94	
								2922
456.00	448.69	427.69	1876	1918	236.59	449.19	681.94	
								2760
458.00	451.45	430.45	1880	1923	235.00	446.62	678.52	
								2842
460.00	454.29	433.29	1884	1928	233.32	443.91	674.89	
								2701
462.00	456.99	435.99	1887	1932	231.84	441.54	671.73	
								2877
464.00	459.87	438.87	1892	1937	230.17	438.83	668.08	
								2777
466.00	462.64	441.64	1895	1941	228.64	436.36	664.78	
								2776
468.00	465.42	444.42	1899	1946	227.14	433.92	661.51	
								2402
470.00	467.82	446.82	1901	1948	226.06	432.23	659.30	
								2724
472.00	470.55	449.55	1905	1952	224.65	429.95	656.25	
								2688
474.00	473.23	452.23	1908	1955	223.30	427.76	653.34	
								2639
476.00	475.87	454.87	1911	1959	222.02	425.69	650.59	
								2763
478.00	478.64	457.64	1915	1963	220.62	423.41	647.52	

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
								2290
480.00	480.92	459.92	1916	1964	219.71	421.99	645.68	
								2363
482.00	483.29	462.29	1918	1966	218.74	420.45	643.68	
								2321
484.00	485.61	464.61	1920	1968	217.82	419.00	641.80	
								2738
486.00	488.35	467.35	1923	1971	216.49	416.84	638.90	
								2451
488.00	490.80	469.80	1925	1974	215.47	415.20	636.74	
								2637
490.00	493.43	472.43	1928	1977	214.28	413.26	634.15	
								2649
492.00	496.08	475.08	1931	1980	213.08	411.32	631.56	
								2473
494.00	498.56	477.56	1933	1982	212.07	409.69	629.41	
								2568
496.00	501.13	480.13	1936	1985	210.98	407.93	627.05	
								2716
498.00	503.84	482.84	1939	1988	209.76	405.92	624.36	
								2408
500.00	506.25	485.25	1941	1990	208.84	404.44	622.41	
								2446
502.00	508.69	487.69	1943	1992	207.89	402.91	620.39	
								2729
504.00	511.42	490.42	1946	1996	206.69	400.94	617.73	
								2493
506.00	513.92	492.92	1948	1998	205.72	399.36	615.64	
								2341
508.00	516.26	495.26	1950	1999	204.89	398.03	613.89	
								2476
510.00	518.73	497.73	1952	2002	203.95	396.50	611.87	
								2750
512.00	521.48	500.48	1955	2005	202.77	394.56	609.24	
								2459
514.00	523.94	502.94	1957	2007	201.87	393.09	607.28	
								2436
516.00	526.38	505.38	1959	2009	200.99	391.66	605.39	
								2717
518.00	529.10	508.10	1962	2012	199.88	389.82	602.90	
								2378
520.00	531.47	510.47	1963	2014	199.06	388.49	601.16	
								2827
522.00	534.30	513.30	1967	2017	197.87	386.51	598.45	
								2746
524.00	537.05	516.05	1970	2021	196.77	384.67	595.97	
								2612
526.00	539.66	518.66	1972	2023	195.80	383.06	593.79	

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
								2464
528.00	542.12	521.12	1974	2025	194.95	381.66	591.93	
								2501
530.00	544.62	523.62	1976	2027	194.07	380.23	590.02	
								2642
532.00	547.27	526.27	1978	2030	193.10	378.61	587.83	
								2683
534.00	549.95	528.95	1981	2032	192.10	376.94	585.57	
								2729
536.00	552.68	531.68	1984	2036	191.08	375.22	583.23	
								2875
538.00	555.55	534.55	1987	2039	189.94	373.30	580.60	
								2440
540.00	557.99	536.99	1989	2041	189.16	372.01	578.88	
								2476
542.00	560.47	539.47	1991	2043	188.36	370.68	577.10	
								2945
544.00	563.41	542.41	1994	2047	187.19	368.71	574.38	
								2733
546.00	566.15	545.15	1997	2050	186.22	367.06	572.13	
								2873
548.00	569.02	548.02	2000	2053	185.14	365.23	569.62	
								2724
550.00	571.74	550.74	2003	2056	184.19	363.62	567.43	
								2546
552.00	574.29	553.29	2005	2058	183.38	362.27	565.60	
								2663
554.00	576.95	555.95	2007	2061	182.49	360.77	563.56	
								2715
556.00	579.67	558.67	2010	2063	181.58	359.22	561.44	
								2883
558.00	582.55	561.55	2013	2067	180.55	357.46	559.01	
								2864
560.00	585.42	564.42	2016	2070	179.54	355.74	556.64	
								2772
562.00	588.19	567.19	2018	2073	178.61	354.15	554.47	
								2719
564.00	590.91	569.91	2021	2076	177.73	352.66	552.41	
								2650
566.00	593.56	572.56	2023	2078	176.91	351.25	550.50	
								2729
568.00	596.29	575.29	2026	2081	176.04	349.77	548.46	
								2893
570.00	599.18	578.18	2029	2084	175.06	348.08	546.13	
								2899
572.00	602.08	581.08	2032	2088	174.09	346.41	543.81	
								2917
574.00	604.99	583.99	2035	2091	173.12	344.73	541.48	

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
								2946
576.00	607.94	586.94	2038	2095	172.13	343.03	539.11	
								3339
578.00	611.28	590.28	2042	2100	170.87	340.80	535.98	
								3116
580.00	614.40	593.40	2046	2105	169.79	338.92	533.34	
								2988
582.00	617.38	596.38	2049	2108	168.81	337.22	530.97	
								3056
584.00	620.44	599.44	2053	2112	167.80	335.45	528.50	
								2649
586.00	623.09	602.09	2055	2114	167.07	334.19	526.77	
								2612
588.00	625.70	604.70	2057	2116	166.36	332.98	525.10	
								2973
590.00	628.67	607.67	2060	2120	165.43	331.36	522.84	
								2934
592.00	631.61	610.61	2063	2123	164.54	329.80	520.67	
								2912
594.00	634.52	613.52	2066	2126	163.67	328.29	518.55	
								2797
596.00	637.32	616.32	2068	2129	162.89	326.92	516.65	
								2847
598.00	640.16	619.16	2071	2131	162.08	325.50	514.68	
								2593
600.00	642.76	621.76	2073	2133	161.42	324.37	513.12	
								2866
602.00	645.62	624.62	2075	2136	160.61	322.96	511.15	
								2717
604.00	648.34	627.34	2077	2138	159.90	321.72	509.43	
								2627
606.00	650.97	629.97	2079	2140	159.24	320.58	507.86	
								2611
608.00	653.58	632.58	2081	2142	158.60	319.46	506.32	
								2994
610.00	656.57	635.57	2084	2145	157.74	317.95	504.19	
								2909
612.00	659.48	638.48	2087	2148	156.95	316.55	502.22	
								2944
614.00	662.42	641.42	2089	2151	156.14	315.12	500.21	
								3049
616.00	665.47	644.47	2092	2155	155.28	313.59	498.05	
								2773
618.00	668.25	647.25	2095	2157	154.58	312.36	496.33	
								2673
620.00	670.92	649.92	2097	2159	153.94	311.24	494.78	
								2637
622.00	673.56	652.56	2098	2160	153.32	310.17	493.28	

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
								3049
624.00	676.61	655.61	2101	2164	152.49	308.68	491.18	
								2688
626.00	679.29	658.29	2103	2166	151.86	307.58	489.64	
								2836
628.00	682.13	661.13	2106	2168	151.16	306.34	487.90	
								2846
630.00	684.98	663.98	2108	2171	150.46	305.09	486.15	
								2673
632.00	687.65	666.65	2110	2172	149.86	304.03	484.66	
								2627
634.00	690.28	669.28	2111	2174	149.28	303.01	483.24	
								2907
636.00	693.18	672.18	2114	2177	148.56	301.74	481.44	
								2628
638.00	695.81	674.81	2115	2178	147.99	300.73	480.04	
								2809
640.00	698.62	677.62	2118	2181	147.34	299.57	478.41	
								2899
642.00	701.52	680.52	2120	2183	146.65	298.33	476.66	
								2784
644.00	704.30	683.30	2122	2185	146.02	297.21	475.08	
								2777
646.00	707.08	686.08	2124	2187	145.40	296.11	473.52	
								3098
648.00	710.18	689.18	2127	2191	144.63	294.71	471.52	
								2910
650.00	713.09	692.09	2130	2193	143.96	293.50	469.81	
								2801
652.00	715.89	694.89	2132	2195	143.34	292.40	468.25	
								2817
654.00	718.71	697.71	2134	2198	142.73	291.30	466.69	
								2798
656.00	721.51	700.50	2136	2200	142.12	290.22	465.16	
								2940
658.00	724.44	703.44	2138	2202	141.46	289.02	463.45	
								2925
660.00	727.37	706.37	2141	2205	140.81	287.85	461.78	
								2676
662.00	730.04	709.04	2142	2206	140.28	286.89	460.43	
								2535
664.00	732.58	711.58	2143	2208	139.80	286.06	459.26	
								2737
666.00	735.32	714.32	2145	2209	139.25	285.06	457.86	
								2648
668.00	737.96	716.96	2147	2211	138.74	284.15	456.57	
								2729
670.00	740.69	719.69	2148	2212	138.20	283.18	455.19	

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
								2950
672.00	743.64	722.64	2151	2215	137.57	282.03	453.54	
								2580
674.00	746.22	725.22	2152	2216	137.10	281.18	452.36	
								3025
676.00	749.25	728.25	2155	2219	136.44	279.99	450.63	
								2870
678.00	752.12	731.12	2157	2221	135.86	278.93	449.12	
								2941
680.00	755.06	734.06	2159	2224	135.25	277.82	447.53	
								2751
682.00	757.81	736.81	2161	2225	134.73	276.87	446.18	
								2783
684.00	760.59	739.59	2163	2227	134.19	275.91	444.80	
								2856
686.00	763.45	742.45	2165	2229	133.64	274.89	443.35	
								3006
688.00	766.45	745.45	2167	2232	133.02	273.76	441.72	
								2685
690.00	769.14	748.14	2169	2233	132.54	272.89	440.48	
								2865
692.00	772.00	751.00	2171	2236	131.99	271.89	439.04	
								2731
694.00	774.73	753.73	2172	2237	131.50	271.00	437.76	
								2740
696.00	777.47	756.47	2174	2239	131.01	270.10	436.49	
								2834
698.00	780.31	759.31	2176	2241	130.48	269.14	435.11	
								2947
700.00	783.26	762.26	2178	2243	129.92	268.11	433.61	
								2843
702.00	786.10	765.10	2180	2245	129.40	267.16	432.24	
								2582
704.00	788.68	767.68	2181	2246	128.98	266.39	431.16	
								2704
706.00	791.38	770.38	2182	2247	128.52	265.55	429.96	
								2757
708.00	794.14	773.14	2184	2249	128.05	264.68	428.71	
								2818
710.00	796.96	775.96	2186	2251	127.55	263.77	427.40	
								2563
712.00	799.52	778.52	2187	2252	127.15	263.04	426.36	
								2646
714.00	802.17	781.17	2188	2253	126.72	262.26	425.24	
								2657
716.00	804.83	783.83	2189	2254	126.29	261.48	424.12	
								2702
718.00	807.53	786.53	2191	2256	125.85	260.67	422.96	

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
								2817
720.00	810.34	789.34	2193	2257	125.38	259.79	421.68	
								2932
722.00	813.28	792.28	2195	2259	124.86	258.83	420.29	
								2799
724.00	816.07	795.07	2196	2261	124.39	257.97	419.05	
								2940
726.00	819.01	798.01	2198	2263	123.88	257.02	417.67	
								2901
728.00	821.91	800.91	2200	2265	123.39	256.11	416.34	
								2634
730.00	824.55	803.55	2202	2266	122.99	255.37	415.29	
								2532
732.00	827.08	806.08	2202	2267	122.63	254.71	414.33	
								2539
734.00	829.62	808.62	2203	2268	122.26	254.04	413.37	
								3183
736.00	832.80	811.80	2206	2271	121.68	252.94	411.76	
								2758
738.00	835.56	814.56	2207	2272	121.25	252.15	410.61	
								2679
740.00	838.24	817.24	2209	2274	120.85	251.41	409.55	
								2606
742.00	840.85	819.85	2210	2274	120.48	250.72	408.55	
								2820
744.00	843.67	822.67	2211	2276	120.04	249.90	407.36	
								3270
746.00	846.94	825.94	2214	2279	119.44	248.78	405.70	
								2952
748.00	849.89	828.89	2216	2281	118.97	247.88	404.39	
								2613
750.00	852.50	831.50	2217	2282	118.60	247.21	403.41	
								2664
752.00	855.17	834.17	2219	2283	118.22	246.50	402.39	
								2786
754.00	857.95	836.95	2220	2285	117.81	245.73	401.27	
								2763
756.00	860.71	839.71	2221	2286	117.40	244.98	400.17	
								2562
758.00	863.28	842.28	2222	2287	117.06	244.34	399.25	
								2676
760.00	865.95	844.95	2224	2288	116.69	243.65	398.25	
								2861
762.00	868.81	847.81	2225	2290	116.26	242.85	397.07	
								2675
764.00	871.49	850.49	2226	2291	115.90	242.16	396.07	
								3295
766.00	874.78	853.78	2229	2294	115.33	241.09	394.48	

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
768.00	877.59	856.59	2231	2296	114.93	240.34	393.38	2806
770.00	880.44	859.44	2232	2297	114.52	239.57	392.25	2845
772.00	883.17	862.17	2234	2299	114.15	238.87	391.23	2730
774.00	885.98	864.98	2235	2300	113.76	238.13	390.14	2811
776.00	888.81	867.81	2237	2302	113.36	237.38	389.04	2837
778.00	891.31	870.31	2237	2302	113.06	236.81	388.22	2500
780.00	893.82	872.82	2238	2303	112.75	236.25	387.40	2504
782.00	896.45	875.45	2239	2304	112.42	235.62	386.48	2637
784.00	898.90	877.90	2240	2304	112.13	235.09	385.71	2451
786.00	901.52	880.52	2241	2305	111.80	234.48	384.82	2612
788.00	904.08	883.08	2241	2305	111.49	233.90	383.98	2559
790.00	906.60	885.60	2242	2306	111.20	233.34	383.16	2520
792.00	909.25	888.25	2243	2307	110.86	232.71	382.25	2657
794.00	911.58	890.58	2243	2307	110.61	232.25	381.58	2329
796.00	913.94	892.94	2244	2307	110.36	231.77	380.89	2363
798.00	916.62	895.62	2245	2308	110.02	231.14	379.97	2680
800.00	919.19	898.19	2245	2309	109.72	230.57	379.14	2565
802.00	921.56	900.56	2246	2309	109.46	230.10	378.45	2374
804.00	924.09	903.09	2246	2310	109.17	229.55	377.65	2529
806.00	926.52	905.52	2247	2310	108.91	229.05	376.93	2426
808.00	928.84	907.84	2247	2310	108.67	228.61	376.29	2322
810.00	931.18	910.18	2247	2310	108.43	228.15	375.63	2344
812.00	933.64	912.64	2248	2310	108.16	227.65	374.89	2459
814.00	936.08	915.08	2248	2311	107.89	227.15	374.18	2436

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
								2472
816.00	938.55	917.55	2249	2311	107.62	226.65	373.44	
								2477
818.00	941.03	920.03	2249	2312	107.35	226.14	372.69	
								2408
820.00	943.44	922.44	2250	2312	107.10	225.67	372.00	
								2468
822.00	945.90	924.90	2250	2312	106.84	225.17	371.27	
								2466
824.00	948.37	927.37	2251	2313	106.57	224.67	370.55	
								2357
826.00	950.73	929.73	2251	2313	106.34	224.22	369.90	
								2437
828.00	953.16	932.16	2252	2313	106.08	223.74	369.20	
								2637
830.00	955.80	934.80	2253	2314	105.78	223.18	368.36	
								2469
832.00	958.27	937.27	2253	2314	105.52	222.69	367.64	
								2501
834.00	960.77	939.77	2254	2315	105.26	222.18	366.90	
								2415
836.00	963.19	942.19	2254	2315	105.01	221.72	366.23	
								2558
838.00	965.74	944.74	2255	2315	104.74	221.20	365.45	
								2395
840.00	968.14	947.14	2255	2316	104.50	220.75	364.80	
								2426
842.00	970.57	949.57	2255	2316	104.26	220.29	364.12	
								2706
844.00	973.27	952.27	2257	2317	103.95	219.70	363.25	
								2449
846.00	975.72	954.72	2257	2317	103.71	219.24	362.56	
								2516
848.00	978.24	957.24	2258	2318	103.45	218.74	361.83	
								2415
850.00	980.65	959.65	2258	2318	103.21	218.29	361.17	
								2461
852.00	983.11	962.11	2258	2318	102.97	217.83	360.49	
								2433
854.00	985.55	964.55	2259	2319	102.73	217.37	359.82	
								2579
856.00	988.12	967.12	2260	2319	102.46	216.86	359.06	
								2474
858.00	990.60	969.60	2260	2320	102.21	216.39	358.37	
								2425
860.00	993.02	972.02	2261	2320	101.98	215.95	357.72	
								2501
862.00	995.52	974.52	2261	2320	101.73	215.48	357.02	

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
								2374
864.00	997.90	976.90	2261	2320	101.51	215.06	356.40	
								2368
866.00	1000.27	979.27	2262	2321	101.29	214.64	355.79	
								2527
868.00	1002.79	981.79	2262	2321	101.04	214.16	355.07	
								2499
870.00	1005.29	984.29	2263	2321	100.80	213.70	354.38	
								2633
872.00	1007.93	986.93	2264	2322	100.53	213.18	353.61	
								2505
874.00	1010.43	989.43	2264	2323	100.29	212.71	352.92	
								2446
876.00	1012.88	991.88	2265	2323	100.06	212.27	352.27	
								2536
878.00	1015.41	994.41	2265	2323	99.81	211.80	351.56	
								2771
880.00	1018.18	997.18	2266	2325	99.52	211.23	350.70	
								2800
882.00	1020.98	999.98	2268	2326	99.22	210.65	349.83	
								2494
884.00	1023.48	1002.48	2268	2326	98.99	210.20	349.16	
								2465
886.00	1025.94	1004.94	2268	2326	98.76	209.76	348.51	
								2587
888.00	1028.53	1007.53	2269	2327	98.51	209.28	347.79	
								2723
890.00	1031.25	1010.25	2270	2328	98.23	208.74	346.98	
								2470
892.00	1033.72	1012.72	2271	2328	98.01	208.31	346.33	
								2475
894.00	1036.20	1015.20	2271	2329	97.78	207.88	345.69	
								2406
896.00	1038.60	1017.60	2271	2329	97.57	207.47	345.09	
								2454
898.00	1041.06	1020.06	2272	2329	97.35	207.05	344.46	
								2528
900.00	1043.59	1022.59	2272	2330	97.12	206.60	343.79	
								2524
902.00	1046.11	1025.11	2273	2330	96.89	206.16	343.12	
								2475
904.00	1048.58	1027.58	2273	2330	96.67	205.73	342.49	
								2418
906.00	1051.00	1030.00	2274	2331	96.46	205.33	341.89	
								2472
908.00	1053.47	1032.47	2274	2331	96.25	204.91	341.26	
								2573
910.00	1056.05	1035.05	2275	2332	96.01	204.45	340.57	

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
								2583
912.00	1058.63	1037.63	2276	2332	95.78	203.99	339.88	
								2567
914.00	1061.20	1040.20	2276	2333	95.54	203.54	339.21	
								2478
916.00	1063.67	1042.67	2277	2333	95.33	203.13	338.58	
								2625
918.00	1066.30	1045.30	2277	2334	95.09	202.66	337.87	
								2677
920.00	1068.98	1047.98	2278	2334	94.84	202.17	337.14	
								2672
922.00	1071.65	1050.65	2279	2335	94.59	201.69	336.40	
								2772
924.00	1074.42	1053.42	2280	2336	94.33	201.17	335.61	
								2634
926.00	1077.05	1056.05	2281	2337	94.09	200.70	334.91	
								2579
928.00	1079.63	1058.63	2282	2338	93.86	200.26	334.24	
								2607
930.00	1082.24	1061.24	2282	2338	93.63	199.81	333.56	
								2633
932.00	1084.87	1063.87	2283	2339	93.40	199.36	332.87	
								2739
934.00	1087.61	1066.61	2284	2340	93.15	198.86	332.11	
								2594
936.00	1090.21	1069.21	2285	2340	92.92	198.42	331.45	
								2697
938.00	1092.90	1071.90	2286	2341	92.68	197.94	330.73	
								2615
940.00	1095.52	1074.52	2286	2342	92.45	197.50	330.05	
								2579
942.00	1098.10	1077.10	2287	2342	92.23	197.07	329.41	
								2652
944.00	1100.75	1079.75	2288	2343	92.00	196.62	328.72	
								2629
946.00	1103.38	1082.38	2288	2344	91.78	196.18	328.04	
								2688
948.00	1106.07	1085.07	2289	2344	91.54	195.72	327.34	
								2914
950.00	1108.98	1087.98	2290	2346	91.27	195.17	326.50	
								2776
952.00	1111.76	1090.76	2292	2347	91.02	194.68	325.75	
								2669
954.00	1114.43	1093.43	2292	2347	90.79	194.23	325.07	
								2671
956.00	1117.10	1096.10	2293	2348	90.57	193.78	324.39	
								2622
958.00	1119.72	1098.72	2294	2349	90.35	193.36	323.73	

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
								2595
960.00	1122.31	1101.31	2294	2349	90.14	192.94	323.10	
								2614
962.00	1124.93	1103.93	2295	2350	89.92	192.52	322.46	
								2777
964.00	1127.71	1106.71	2296	2351	89.68	192.04	321.72	
								2626
966.00	1130.33	1109.33	2297	2351	89.47	191.62	321.08	
								2708
968.00	1133.04	1112.04	2298	2352	89.24	191.17	320.39	
								2806
970.00	1135.85	1114.85	2299	2353	89.00	190.69	319.65	
								2664
972.00	1138.51	1117.51	2299	2354	88.78	190.26	318.99	
								2520
974.00	1141.03	1120.03	2300	2354	88.59	189.88	318.42	
								2649
976.00	1143.68	1122.68	2301	2355	88.37	189.46	317.77	
								2599
978.00	1146.28	1125.28	2301	2355	88.17	189.06	317.16	
								2656
980.00	1148.93	1127.93	2302	2356	87.96	188.64	316.51	
								2640
982.00	1151.57	1130.57	2303	2357	87.75	188.22	315.88	
								2723
984.00	1154.30	1133.30	2303	2358	87.53	187.78	315.21	
								2728
986.00	1157.03	1136.03	2304	2358	87.31	187.35	314.53	
								2742
988.00	1159.77	1138.77	2305	2359	87.09	186.90	313.85	
								2654
990.00	1162.42	1141.42	2306	2360	86.88	186.50	313.22	
								2667
992.00	1165.09	1144.09	2307	2360	86.67	186.08	312.59	
								2720
994.00	1167.81	1146.81	2307	2361	86.46	185.65	311.93	
								2578
996.00	1170.39	1149.39	2308	2362	86.27	185.27	311.35	
								2588
998.00	1172.97	1151.97	2309	2362	86.07	184.89	310.76	
								2571
1000.00	1175.55	1154.55	2309	2363	85.89	184.52	310.19	
								2711
1002.00	1178.26	1157.26	2310	2363	85.68	184.10	309.54	
								2994
1004.00	1181.25	1160.25	2311	2365	85.42	183.59	308.74	
								2591
1006.00	1183.84	1162.84	2312	2365	85.23	183.21	308.16	

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
								2605
1008.00	1186.45	1165.45	2312	2366	85.04	182.83	307.58	
								2718
1010.00	1189.16	1168.16	2313	2367	84.83	182.42	306.94	
								2704
1012.00	1191.87	1170.87	2314	2367	84.63	182.01	306.31	
								2863
1014.00	1194.73	1173.73	2315	2368	84.40	181.55	305.60	
								2647
1016.00	1197.38	1176.38	2316	2369	84.21	181.17	305.01	
								2626
1018.00	1200.00	1179.00	2316	2369	84.02	180.79	304.43	
								2781
1020.00	1202.79	1181.79	2317	2370	83.81	180.36	303.77	
								3027
1022.00	1205.81	1184.81	2319	2372	83.56	179.86	302.98	
								2618
1024.00	1208.43	1187.43	2319	2372	83.37	179.49	302.41	
								2938
1026.00	1211.37	1190.37	2320	2374	83.14	179.02	301.67	
								2865
1028.00	1214.23	1193.23	2321	2375	82.92	178.58	300.98	
								2735
1030.00	1216.97	1195.97	2322	2375	82.72	178.18	300.36	
								2731
1032.00	1219.70	1198.70	2323	2376	82.52	177.78	299.74	
								2856
1034.00	1222.56	1201.56	2324	2377	82.30	177.34	299.06	
								2556
1036.00	1225.11	1204.11	2325	2377	82.13	177.00	298.54	
								2723
1038.00	1227.83	1206.83	2325	2378	81.94	176.61	297.93	
								2755
1040.00	1230.59	1209.59	2326	2379	81.74	176.21	297.31	
								2645
1042.00	1233.23	1212.23	2327	2379	81.56	175.85	296.75	
								2696
1044.00	1235.93	1214.93	2327	2380	81.37	175.47	296.16	
								3007
1046.00	1238.94	1217.94	2329	2381	81.14	175.00	295.42	
								3209
1048.00	1242.15	1221.15	2330	2383	80.87	174.46	294.57	
								3188
1050.00	1245.34	1224.34	2332	2385	80.61	173.93	293.74	
								3110
1052.00	1248.45	1227.45	2334	2387	80.37	173.44	292.96	
								3073
1054.00	1251.52	1230.52	2335	2388	80.13	172.95	292.20	

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
								3081
1056.00	1254.60	1233.60	2336	2390	79.89	172.47	291.44	
								3219
1058.00	1257.82	1236.82	2338	2392	79.63	171.94	290.61	
								3183
1060.00	1261.00	1240.00	2340	2393	79.38	171.43	289.80	
								3246
1062.00	1264.25	1243.25	2341	2395	79.12	170.90	288.96	
								3083
1064.00	1267.33	1246.33	2343	2397	78.89	170.43	288.22	
								2705
1066.00	1270.04	1249.04	2343	2397	78.71	170.07	287.66	
								2919
1068.00	1272.95	1251.95	2344	2398	78.51	169.66	287.00	
								2932
1070.00	1275.89	1254.89	2346	2399	78.30	169.24	286.34	
								3081
1072.00	1278.97	1257.97	2347	2401	78.07	168.77	285.61	
								2974
1074.00	1281.94	1260.94	2348	2402	77.86	168.34	284.94	
								2988
1076.00	1284.93	1263.93	2349	2403	77.65	167.92	284.26	
								2906
1078.00	1287.83	1266.83	2350	2404	77.45	167.51	283.62	
								2941
1080.00	1290.78	1269.78	2351	2405	77.25	167.10	282.98	
								2879
1082.00	1293.65	1272.65	2352	2406	77.06	166.71	282.36	
								2900
1084.00	1296.55	1275.55	2353	2407	76.86	166.31	281.73	
								3036
1086.00	1299.59	1278.59	2355	2409	76.65	165.88	281.05	
								2988
1088.00	1302.58	1281.58	2356	2410	76.44	165.46	280.39	
								2596
1090.00	1305.17	1284.17	2356	2410	76.29	165.15	279.91	
								3095
1092.00	1308.27	1287.27	2358	2412	76.07	164.71	279.20	
								3097
1094.00	1311.37	1290.37	2359	2413	75.86	164.26	278.50	
								2906
1096.00	1314.27	1293.27	2360	2414	75.67	163.88	277.89	
								2918
1098.00	1317.19	1296.19	2361	2415	75.48	163.49	277.27	
								3184
1100.00	1320.37	1299.37	2362	2417	75.25	163.02	276.54	
								3053
1102.00	1323.43	1302.43	2364	2418	75.04	162.60	275.87	

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
								3054
1104.00	1326.48	1305.48	2365	2419	74.84	162.18	275.20	
								2907
1106.00	1329.39	1308.39	2366	2420	74.65	161.80	274.60	
								3135
1108.00	1332.52	1311.52	2367	2422	74.44	161.36	273.90	
								3492
1110.00	1336.01	1315.01	2369	2424	74.17	160.82	273.03	
								3227
1112.00	1339.24	1318.24	2371	2426	73.95	160.36	272.29	
								3148
1114.00	1342.39	1321.39	2372	2427	73.74	159.92	271.60	
								2921
1116.00	1345.31	1324.31	2373	2428	73.56	159.55	271.01	
								3183
1118.00	1348.49	1327.49	2375	2430	73.34	159.11	270.31	
								3004
1120.00	1351.50	1330.50	2376	2431	73.15	158.72	269.69	
								2982
1122.00	1354.48	1333.48	2377	2432	72.96	158.34	269.08	
								2486
1124.00	1356.97	1335.97	2377	2432	72.84	158.08	268.68	
								2825
1126.00	1359.79	1338.79	2378	2433	72.67	157.74	268.14	
								3168
1128.00	1362.96	1341.96	2379	2434	72.46	157.31	267.46	
								3159
1130.00	1366.12	1345.12	2381	2436	72.26	156.89	266.79	
								2722
1132.00	1368.84	1347.84	2381	2436	72.11	156.58	266.30	
								2923
1134.00	1371.76	1350.76	2382	2437	71.93	156.23	265.73	
								2679
1136.00	1374.44	1353.44	2383	2438	71.79	155.93	265.26	
								2788
1138.00	1377.23	1356.23	2384	2439	71.63	155.61	264.76	
								3154
1140.00	1380.38	1359.38	2385	2440	71.43	155.20	264.10	
								2670
1142.00	1383.05	1362.05	2385	2440	71.29	154.91	263.64	
								2804
1144.00	1385.86	1364.86	2386	2441	71.14	154.59	263.13	
								3030
1146.00	1388.89	1367.89	2387	2442	70.95	154.21	262.53	
								2774
1148.00	1391.66	1370.66	2388	2443	70.80	153.90	262.04	
								2891
1150.00	1394.55	1373.55	2389	2444	70.64	153.57	261.50	

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
								2885
1152.00	1397.44	1376.44	2390	2445	70.48	153.23	260.97	
								2965
1154.00	1400.40	1379.40	2391	2446	70.31	152.88	260.41	
								3162
1156.00	1403.56	1382.57	2392	2447	70.11	152.48	259.77	
								3083
1158.00	1406.65	1385.65	2393	2448	69.93	152.10	259.16	
								3106
1160.00	1409.75	1388.75	2394	2449	69.74	151.72	258.55	
								3129
1162.00	1412.88	1391.88	2396	2451	69.56	151.33	257.93	
								3132
1164.00	1416.01	1395.01	2397	2452	69.37	150.95	257.31	
								3140
1166.00	1419.15	1398.15	2398	2453	69.19	150.56	256.69	
								3151
1168.00	1422.31	1401.31	2399	2455	69.00	150.18	256.08	
								3230
1170.00	1425.54	1404.54	2401	2456	68.80	149.77	255.43	
								3264
1172.00	1428.80	1407.80	2402	2458	68.61	149.36	254.76	
								3392
1174.00	1432.19	1411.19	2404	2460	68.39	148.92	254.05	
								3186
1176.00	1435.38	1414.38	2405	2461	68.21	148.53	253.43	
								3199
1178.00	1438.58	1417.58	2407	2463	68.02	148.15	252.81	
								3010
1180.00	1441.59	1420.59	2408	2464	67.86	147.81	252.26	
								2921
1182.00	1444.51	1423.51	2409	2465	67.70	147.49	251.75	
								2953
1184.00	1447.46	1426.46	2410	2466	67.54	147.17	251.23	
								3079
1186.00	1450.54	1429.54	2411	2467	67.38	146.81	250.67	
								2955
1188.00	1453.49	1432.49	2412	2468	67.22	146.49	250.15	
								3275
1190.00	1456.77	1435.77	2413	2469	67.03	146.10	249.51	
								3198
1192.00	1459.97	1438.97	2414	2471	66.85	145.72	248.91	
								3045
1194.00	1463.01	1442.01	2415	2472	66.69	145.38	248.36	
								3135
1196.00	1466.15	1445.15	2417	2473	66.52	145.03	247.79	
								3190
1198.00	1469.34	1448.34	2418	2474	66.34	144.66	247.20	

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
								3134
1200.00	1472.47	1451.47	2419	2476	66.17	144.31	246.63	
								3103
1202.00	1475.57	1454.57	2420	2477	66.00	143.96	246.07	
								3224
1204.00	1478.80	1457.80	2422	2478	65.83	143.59	245.47	
								3002
1206.00	1481.80	1460.80	2423	2479	65.67	143.27	244.96	
								3065
1208.00	1484.87	1463.87	2424	2480	65.51	142.94	244.43	
								3177
1210.00	1488.04	1467.04	2425	2481	65.34	142.59	243.86	
								3115
1212.00	1491.16	1470.16	2426	2483	65.18	142.25	243.31	
								2795
1214.00	1493.95	1472.95	2427	2483	65.05	141.98	242.88	
								2440
1216.00	1496.39	1475.39	2427	2483	64.95	141.78	242.56	
								2426
1218.00	1498.82	1477.82	2427	2483	64.86	141.58	242.24	
								2581
1220.00	1501.40	1480.40	2427	2483	64.75	141.36	241.88	
								2565
1222.00	1503.97	1482.97	2427	2483	64.64	141.13	241.53	
								3224
1224.00	1507.19	1486.19	2428	2485	64.47	140.78	240.95	
								3418
1226.00	1510.61	1489.61	2430	2487	64.28	140.38	240.30	
								3232
1228.00	1513.84	1492.84	2431	2488	64.11	140.02	239.72	
								3181
1230.00	1517.02	1496.02	2433	2489	63.94	139.68	239.17	
								3227
1232.00	1520.25	1499.25	2434	2491	63.78	139.33	238.60	
								3214
1234.00	1523.46	1502.46	2435	2492	63.61	138.99	238.04	
								3230
1236.00	1526.69	1505.69	2436	2493	63.45	138.64	237.48	
								3160
1238.00	1529.85	1508.85	2438	2495	63.29	138.31	236.94	
								3215
1240.00	1533.07	1512.07	2439	2496	63.12	137.97	236.39	
								3311
1242.00	1536.38	1515.38	2440	2497	62.95	137.61	235.81	
								3208
1244.00	1539.59	1518.59	2441	2499	62.79	137.27	235.26	
								3322
1246.00	1542.91	1521.91	2443	2500	62.62	136.92	234.68	

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
								3453
1248.00	1546.36	1525.36	2444	2502	62.44	136.53	234.05	
								3479
1250.00	1549.84	1528.84	2446	2504	62.25	136.14	233.41	
								3392
1252.00	1553.23	1532.23	2448	2506	62.08	135.77	232.81	
								3228
1254.00	1556.46	1535.46	2449	2507	61.92	135.44	232.27	
								3211
1256.00	1559.67	1538.67	2450	2508	61.76	135.11	231.74	
								3395
1258.00	1563.06	1542.06	2452	2510	61.59	134.75	231.15	
								3336
1260.00	1566.40	1545.40	2453	2511	61.42	134.40	230.58	
								3196
1262.00	1569.60	1548.60	2454	2513	61.27	134.08	230.06	
								3102
1264.00	1572.70	1551.70	2455	2514	61.13	133.79	229.58	
								3168
1266.00	1575.87	1554.87	2456	2515	60.98	133.48	229.08	
								3206
1268.00	1579.07	1558.07	2458	2516	60.83	133.16	228.56	
								3291
1270.00	1582.36	1561.36	2459	2517	60.67	132.83	228.02	
								3305
1272.00	1585.67	1564.67	2460	2519	60.51	132.50	227.48	
								3314
1274.00	1588.98	1567.98	2462	2520	60.36	132.16	226.93	
								3445
1276.00	1592.43	1571.43	2463	2522	60.19	131.81	226.35	
								3399
1278.00	1595.83	1574.83	2465	2524	60.02	131.46	225.78	
								3184
1280.00	1599.01	1578.01	2466	2525	59.88	131.16	225.29	
								3283
1282.00	1602.29	1581.29	2467	2526	59.73	130.84	224.76	
								3366
1284.00	1605.66	1584.66	2468	2528	59.57	130.50	224.21	
								3353
1286.00	1609.01	1588.01	2470	2529	59.41	130.17	223.67	
								3416
1288.00	1612.43	1591.43	2471	2531	59.25	129.83	223.11	
								3246
1290.00	1615.67	1594.67	2472	2532	59.10	129.52	222.61	
								3425
1292.00	1619.10	1598.10	2474	2534	58.94	129.18	222.05	
								3406
1294.00	1622.50	1601.50	2475	2535	58.78	128.85	221.50	

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
								3415
1296.00	1625.92	1604.92	2477	2537	58.62	128.51	220.95	
								3451
1298.00	1629.37	1608.37	2478	2539	58.46	128.17	220.40	
								3445
1300.00	1632.82	1611.82	2480	2540	58.30	127.83	219.84	
								3497
1302.00	1636.31	1615.31	2481	2542	58.14	127.49	219.27	
								3449
1304.00	1639.76	1618.76	2483	2544	57.98	127.15	218.72	
								3423
1306.00	1643.18	1622.18	2484	2545	57.82	126.82	218.19	
								3437
1308.00	1646.62	1625.62	2486	2547	57.67	126.49	217.64	
								3416
1310.00	1650.04	1629.04	2487	2548	57.51	126.17	217.11	
								3463
1312.00	1653.50	1632.50	2489	2550	57.36	125.84	216.57	
								3468
1314.00	1656.97	1635.97	2490	2552	57.20	125.51	216.03	
								3422
1316.00	1660.39	1639.39	2491	2553	57.05	125.19	215.50	
								3480
1318.00	1663.87	1642.87	2493	2555	56.89	124.86	214.96	
								3458
1320.00	1667.33	1646.33	2494	2556	56.74	124.54	214.43	
								3408
1322.00	1670.74	1649.74	2496	2558	56.59	124.23	213.92	
								3413
1324.00	1674.15	1653.15	2497	2559	56.45	123.92	213.40	
								3375
1326.00	1677.52	1656.52	2499	2561	56.30	123.61	212.91	
								3380
1328.00	1680.90	1659.90	2500	2562	56.16	123.31	212.41	
								3534
1330.00	1684.44	1663.44	2501	2564	56.01	122.98	211.87	
								3376
1332.00	1687.81	1666.81	2503	2565	55.86	122.68	211.37	
								3380
1334.00	1691.19	1670.19	2504	2567	55.72	122.38	210.88	
								3529
1336.00	1694.72	1673.72	2506	2569	55.57	122.06	210.35	
								3520
1338.00	1698.24	1677.24	2507	2570	55.42	121.74	209.82	
								3439
1340.00	1701.68	1680.68	2508	2572	55.28	121.44	209.32	
								3530
1342.00	1705.21	1684.21	2510	2573	55.13	121.12	208.79	

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
								3504
1344.00	1708.71	1687.71	2511	2575	54.98	120.81	208.28	
								3460
1346.00	1712.17	1691.17	2513	2577	54.84	120.50	207.78	
								3559
1348.00	1715.73	1694.73	2514	2578	54.69	120.18	207.25	
								3512
1350.00	1719.24	1698.24	2516	2580	54.54	119.87	206.74	
								3565
1352.00	1722.81	1701.81	2517	2582	54.39	119.56	206.22	
								3549
1354.00	1726.36	1705.36	2519	2583	54.24	119.24	205.70	
								3432
1356.00	1729.79	1708.79	2520	2585	54.11	118.95	205.22	
								3326
1358.00	1733.12	1712.12	2522	2586	53.98	118.68	204.77	
								3472
1360.00	1736.59	1715.59	2523	2588	53.84	118.39	204.28	
								3453
1362.00	1740.04	1719.04	2524	2589	53.70	118.10	203.81	
								3446
1364.00	1743.49	1722.49	2526	2591	53.57	117.81	203.33	
								3464
1366.00	1746.95	1725.95	2527	2592	53.43	117.52	202.85	
								3388
1368.00	1750.34	1729.34	2528	2593	53.30	117.25	202.40	
								3485
1370.00	1753.83	1732.83	2530	2595	53.17	116.96	201.92	
								3438
1372.00	1757.26	1736.26	2531	2596	53.04	116.68	201.45	
								3434
1374.00	1760.70	1739.70	2532	2598	52.90	116.40	200.99	
								3494
1376.00	1764.19	1743.19	2534	2599	52.77	116.11	200.52	
								3415
1378.00	1767.61	1746.61	2535	2601	52.64	115.84	200.07	
								3443
1380.00	1771.05	1750.05	2536	2602	52.51	115.56	199.61	
								3404
1382.00	1774.45	1753.45	2538	2603	52.39	115.29	199.16	
								3433
1384.00	1777.89	1756.89	2539	2605	52.26	115.02	198.71	
								3191
1386.00	1781.08	1760.08	2540	2606	52.15	114.79	198.33	
								3828
1388.00	1784.90	1763.90	2542	2608	51.99	114.45	197.77	
								3478
1390.00	1788.38	1767.38	2543	2609	51.86	114.18	197.31	

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
								3461
1392.00	1791.84	1770.84	2544	2611	51.73	113.91	196.86	
								3458
1394.00	1795.30	1774.30	2546	2612	51.61	113.64	196.42	
								3510
1396.00	1798.81	1777.81	2547	2614	51.48	113.36	195.96	
								3483
1398.00	1802.30	1781.30	2548	2615	51.35	113.09	195.51	
								3475
1400.00	1805.77	1784.77	2550	2617	51.23	112.82	195.06	
								3496
1402.00	1809.27	1788.27	2551	2618	51.10	112.55	194.61	
								3484
1404.00	1812.75	1791.75	2552	2620	50.97	112.28	194.17	
								3497
1406.00	1816.25	1795.25	2554	2621	50.85	112.01	193.72	
								3382
1408.00	1819.63	1798.63	2555	2622	50.73	111.77	193.31	
								3592
1410.00	1823.22	1802.22	2556	2624	50.60	111.49	192.84	
								3472
1412.00	1826.69	1805.69	2558	2625	50.48	111.22	192.41	
								3448
1414.00	1830.14	1809.14	2559	2627	50.36	110.97	191.99	
								3542
1416.00	1833.68	1812.68	2560	2628	50.23	110.70	191.54	
								3580
1418.00	1837.26	1816.26	2562	2630	50.10	110.43	191.08	
								3510
1420.00	1840.77	1819.77	2563	2631	49.98	110.17	190.65	
								3431
1422.00	1844.20	1823.20	2564	2632	49.87	109.92	190.24	
								3536
1424.00	1847.74	1826.74	2566	2634	49.74	109.66	189.80	
								3482
1426.00	1851.22	1830.22	2567	2635	49.62	109.40	189.38	
								3518
1428.00	1854.74	1833.74	2568	2637	49.50	109.14	188.95	
								3430
1430.00	1858.17	1837.17	2569	2638	49.39	108.90	188.54	
								3771
1432.00	1861.94	1840.94	2571	2640	49.25	108.61	188.05	
								3622
1434.00	1865.56	1844.56	2573	2642	49.13	108.34	187.60	
								3357
1436.00	1868.92	1847.92	2574	2643	49.02	108.11	187.22	
								3509
1438.00	1872.43	1851.43	2575	2644	48.90	107.86	186.80	

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
								3553
1440.00	1875.98	1854.98	2576	2646	48.78	107.60	186.38	
								3378
1442.00	1879.36	1858.36	2577	2647	48.68	107.37	186.00	
								3407
1444.00	1882.77	1861.77	2579	2648	48.57	107.14	185.61	
								3412
1446.00	1886.18	1865.18	2580	2649	48.46	106.91	185.22	
								3528
1448.00	1889.71	1868.71	2581	2651	48.34	106.66	184.81	
								3596
1450.00	1893.30	1872.30	2582	2652	48.22	106.40	184.38	
								3463
1452.00	1896.76	1875.77	2584	2653	48.11	106.17	183.99	
								3515
1454.00	1900.28	1879.28	2585	2655	48.00	105.93	183.58	
								3508
1456.00	1903.79	1882.79	2586	2656	47.89	105.69	183.18	
								3828
1458.00	1907.62	1886.62	2588	2658	47.76	105.40	182.70	
								3702
1460.00	1911.32	1890.32	2589	2660	47.63	105.13	182.26	
								3498
1462.00	1914.82	1893.82	2591	2661	47.52	104.90	181.86	
								3553
1464.00	1918.37	1897.37	2592	2663	47.41	104.66	181.46	
								3591
1466.00	1921.96	1900.96	2593	2664	47.29	104.41	181.05	
								3520
1468.00	1925.48	1904.48	2595	2665	47.18	104.18	180.66	
								3742
1470.00	1929.22	1908.22	2596	2667	47.06	103.91	180.21	
								3613
1472.00	1932.83	1911.83	2598	2669	46.95	103.66	179.80	
								3459
1474.00	1936.29	1915.29	2599	2670	46.84	103.44	179.43	
								3454
1476.00	1939.75	1918.75	2600	2671	46.74	103.22	179.06	
								3536
1478.00	1943.28	1922.28	2601	2672	46.63	102.99	178.67	
								3734
1480.00	1947.02	1926.02	2603	2674	46.51	102.73	178.23	
								3647
1482.00	1950.67	1929.67	2604	2676	46.40	102.48	177.82	
								3637
1484.00	1954.30	1933.30	2606	2677	46.28	102.24	177.42	
								3553
1486.00	1957.86	1936.86	2607	2679	46.18	102.01	177.03	

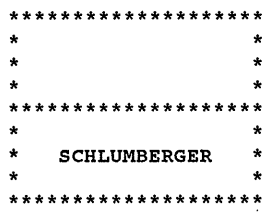
TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
								3538
1488.00	1961.39	1940.39	2608	2680	46.07	101.78	176.65	
								3538
1490.00	1964.93	1943.93	2609	2681	45.97	101.56	176.28	
								3613
1492.00	1968.54	1947.54	2611	2683	45.86	101.32	175.88	
								3707
1494.00	1972.25	1951.25	2612	2684	45.74	101.08	175.47	
								3629
1496.00	1975.88	1954.88	2613	2686	45.63	100.84	175.08	
								3593
1498.00	1979.47	1958.47	2615	2687	45.53	100.61	174.69	
								3678
1500.00	1983.15	1962.15	2616	2689	45.42	100.38	174.29	
								3748
1502.00	1986.90	1965.90	2618	2691	45.30	100.13	173.88	
								3651
1504.00	1990.55	1969.55	2619	2692	45.19	99.90	173.48	
								3821
1506.00	1994.37	1973.37	2621	2694	45.08	99.64	173.06	
								3699
1508.00	1998.07	1977.07	2622	2695	44.97	99.40	172.66	
								3756
1510.00	2001.83	1980.83	2624	2697	44.85	99.16	172.25	
								3730
1512.00	2005.56	1984.56	2625	2699	44.74	98.92	171.85	
								3659
1514.00	2009.22	1988.22	2626	2700	44.64	98.69	171.46	
								3569
1516.00	2012.78	1991.78	2628	2702	44.53	98.48	171.10	
								3651
1518.00	2016.44	1995.44	2629	2703	44.43	98.25	170.72	
								3570
1520.00	2020.01	1999.01	2630	2704	44.33	98.04	170.36	
								3754
1522.00	2023.76	2002.76	2632	2706	44.22	97.80	169.96	
								3691
1524.00	2027.45	2006.45	2633	2708	44.12	97.57	169.58	
								3677
1526.00	2031.13	2010.13	2635	2709	44.01	97.35	169.20	
								3710
1528.00	2034.84	2013.84	2636	2711	43.91	97.12	168.82	
								3782
1530.00	2038.62	2017.62	2637	2712	43.80	96.88	168.42	
								3758
1532.00	2042.38	2021.38	2639	2714	43.69	96.65	168.03	
								3799
1534.00	2046.18	2025.18	2640	2716	43.58	96.42	167.64	

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
								3733
1536.00	2049.91	2028.91	2642	2717	43.48	96.19	167.25	
								3735
1538.00	2053.64	2032.64	2643	2719	43.37	95.97	166.88	
								3761
1540.00	2057.41	2036.41	2645	2720	43.27	95.74	166.49	
								3722
1542.00	2061.13	2040.13	2646	2722	43.16	95.52	166.12	
								3776
1544.00	2064.90	2043.90	2648	2724	43.06	95.29	165.74	
								3828
1546.00	2068.73	2047.73	2649	2725	42.95	95.06	165.34	
								4063
1548.00	2072.79	2051.79	2651	2727	42.83	94.80	164.90	
								4361
1550.00	2077.15	2056.15	2653	2730	42.69	94.50	164.40	
								4351
1552.00	2081.51	2060.51	2655	2733	42.55	94.20	163.89	
								4120
1554.00	2085.63	2064.63	2657	2735	42.43	93.94	163.45	
								4093
1556.00	2089.72	2068.72	2659	2737	42.31	93.68	163.01	
								3871
1558.00	2093.59	2072.59	2661	2739	42.21	93.45	162.62	
								3899
1560.00	2097.49	2076.49	2662	2741	42.10	93.21	162.23	
								3901
1562.00	2101.39	2080.39	2664	2743	41.99	92.98	161.84	
								3948
1564.00	2105.34	2084.34	2665	2744	41.88	92.75	161.44	
								3967
1566.00	2109.30	2088.30	2667	2746	41.77	92.51	161.04	
								4067
1568.00	2113.37	2092.37	2669	2748	41.66	92.26	160.62	
								4013
1570.00	2117.38	2096.38	2671	2750	41.55	92.02	160.22	
								4691
1572.00	2122.08	2101.08	2673	2754	41.40	91.70	159.66	
								4858
1574.00	2126.93	2105.93	2676	2758	41.24	91.35	159.07	
								5016
1576.00	2131.95	2110.95	2679	2762	41.07	90.98	158.44	
								4963
1578.00	2136.91	2115.91	2682	2765	40.90	90.62	157.83	
								5090
1580.00	2142.00	2121.00	2685	2770	40.73	90.25	157.20	
								4751
1582.00	2146.75	2125.75	2687	2773	40.58	89.92	156.65	

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
								4732
1584.00	2151.49	2130.49	2690	2776	40.43	89.61	156.11	
								4747
1586.00	2156.23	2135.23	2693	2780	40.29	89.29	155.57	

?C

ANALYST: K. MCPHAIL 3-JAN-90 16:01:14 PROGRAM: GMULTP 006.E06



SYNTHETIC SEISMOGRAM TABLE

COMPANY : ESSO AUSTRALIA LTD.

WELL : ADMIRAL-1

FIELD : WILDCAT

COUNTRY : AUSTRALIA

REFERENCE: 540744

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 :
GRF001- CHANNEL NAME FOR INPUT DENSITY LOG DATA
GTR001- 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	211.430	M
BOTTOM DEPTH OF PROCESSI	IGESTP	2135.23	M
INITIAL TWO WAY TRAVEL T	INITAU	.268000	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	2969.08	M/S
UNIFORM EARTH VELOCITY	UNERTH	1540.00	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	: 0	G/C3	0 -	0
USER VELOC (WST)	LAYVEL	: 1609.000	M/S	231.190 -	122.000
		1540.000		122.000	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
		1952	2.150					
270.0	213.38			-.012	.99986	-.01178	-.01178	0
		1906	2.150					
272.0	215.29			.010	.99976	.00982	.00968	-.00014
		1944	2.150					
274.0	217.23			-.003	.99976	-.00267	-.00244	.00023
		1934	2.150					
276.0	219.17			-.019	.99939	-.01929	-.01944	-.00016
		1860	2.150					
278.0	221.03			.019	.99901	.01932	.01891	-.00041
		1934	2.150					
280.0	222.96			-.003	.99900	-.00335	-.00252	.00083
		1921	2.150					
282.0	224.88			.001	.99900	.00061	.00008	-.00053
		1923	2.150					
284.0	226.80			.014	.99881	.01375	.01352	-.00023
		1977	2.150					
286.0	228.78			-.001	.99881	-.00067	.00039	.00106
		1974	2.150					
288.0	230.75			-.004	.99880	-.00363	-.00438	-.00074
		1960	2.150					
290.0	232.71			-.005	.99877	-.00491	-.00483	.00008
		1941	2.150					
292.0	234.65			0	.99877	-.00019	.00028	.00047
		1940	2.150					
294.0	236.59			.004	.99875	.00435	.00391	-.00045
		1957	2.150					
296.0	238.55			-.002	.99875	-.00164	-.00164	.00001
		1950	2.150					
298.0	240.50			-.005	.99873	-.00508	-.00525	-.00017
		1931	2.150					
300.0	242.43			-.006	.99869	-.00580	-.00590	-.00010
		1908	2.150					
302.0	244.34			-.001	.99869	-.00062	-.00053	.00009
		1906	2.150					
304.0	246.25			.008	.99862	.00837	.00833	-.00003
		1938	2.150					
306.0	248.19			.030	.99770	.03035	.03056	.00020
		2060	2.150					
308.0	250.25			-.028	.99690	-.02827	-.02775	.00051
		1946	2.150					
310.0	252.19			.008	.99684	.00779	.00657	-.00122
		1977	2.150					
312.0	254.17			-.015	.99662	-.01466	-.01347	.00118
		1920	2.150					
314.0	256.09			-.007	.99657	-.00690	-.00646	.00044
		1893	2.150					
316.0	257.98			.004	.99656	.00379	.00185	-.00193
		1908	2.150					

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
318.0	259.89			.008	.99650	.00760	.00922	.00163
		1937	2.150					
320.0	261.83			.002	.99650	.00207	.00086	-.00121
		1945	2.150					
322.0	263.77			.001	.99650	.00121	.00055	-.00066
		1950	2.150					
324.0	265.72			.015	.99628	.01466	.01587	.00121
		2008	2.150					
326.0	267.73			.037	.99488	.03734	.03806	.00073
		2164	2.150					
328.0	269.89			-.028	.99409	-.02811	-.02728	.00083
		2045	2.150					
330.0	271.94			.068	.98944	.06796	.06644	-.00152
		2346	2.150					
332.0	274.28			-.075	.98388	-.07416	-.07132	.00285
		2018	2.150					
334.0	276.30			.046	.98178	.04553	.04228	-.00325
		2214	2.150					
336.0	278.52			.014	.98158	.01384	.01570	.00186
		2278	2.150					
338.0	280.79			.030	.98072	.02899	.03210	.00311
		2416	2.150					
340.0	283.21			-.044	.97886	-.04280	-.04776	-.00495
		2214	2.150					
342.0	285.42			.015	.97865	.01422	.01453	.00031
		2279	2.150					
344.0	287.70			-.023	.97813	-.02257	-.02139	.00119
		2177	2.150					
346.0	289.88			.043	.97636	.04158	.04017	-.00141
		2370	2.150					
348.0	292.25			-.036	.97512	-.03485	-.03286	.00199
		2207	2.150					
350.0	294.46			.044	.97319	.04338	.04172	-.00166
		2412	2.150					
352.0	296.87			-.074	.96791	-.07166	-.06858	.00308
		2081	2.150					
354.0	298.95			.078	.96200	.07562	.06867	-.00695
		2434	2.150					
356.0	301.38			-.031	.96109	-.02965	-.02031	.00935
		2288	2.150					
358.0	303.67			.026	.96043	.02521	.01927	-.00595
		2412	2.150					
360.0	306.08			.019	.96009	.01801	.02293	.00492
		2504	2.150					
362.0	308.59			-.028	.95932	-.02726	-.02992	-.00266
		2366	2.150					
364.0	310.95			.030	.95847	.02845	.02668	-.00177
		2510	2.150					
366.0	313.46			-.013	.95832	-.01221	-.00854	.00367

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
		2447	2.150					
368.0	315.91			-.044	.95643	-.04255	-.04409	-.00154
		2239	2.150					
370.0	318.15			.040	.95486	.03870	.03821	-.00049
		2428	2.150					
372.0	320.58			-.018	.95454	-.01740	-.01463	.00277
		2341	2.150					
374.0	322.92			.007	.95450	.00675	-.00024	-.00699
		2374	2.150					
376.0	325.29			.044	.95265	.04197	.04371	.00173
		2593	2.150					
378.0	327.89			-.043	.95087	-.04117	-.03223	.00894
		2378	2.150					
380.0	330.26			.055	.94804	.05191	.04133	-.01059
		2653	2.150					
382.0	332.92			-.016	.94781	-.01470	-.00394	.01076
		2572	2.150					
384.0	335.49			.018	.94749	.01751	.00987	-.00765
		2668	2.150					
386.0	338.16			-.034	.94639	-.03222	-.02916	.00306
		2493	2.150					
388.0	340.65			.014	.94620	.01337	.00438	-.00898
		2564	2.150					
390.0	343.21			-.041	.94460	-.03896	-.02247	.01648
		2361	2.150					
392.0	345.57			0	.94460	-.00035	-.02720	-.02685
		2360	2.150					
394.0	347.93			.018	.94428	.01740	.03792	.02052
		2448	2.150					
396.0	350.38			.018	.94398	.01674	-.00156	-.01830
		2537	2.150					
398.0	352.92			.027	.94327	.02588	.03999	.01411
		2680	2.150					
400.0	355.60			-.090	.93569	-.08455	-.09208	-.00753
		2239	2.150					
402.0	357.84			.093	.92754	.08733	.09273	.00540
		2700	2.150					
404.0	360.54			-.038	.92617	-.03562	-.03553	.00009
		2500	2.150					
406.0	363.04			-.024	.92566	-.02191	-.01876	.00315
		2385	2.150					
408.0	365.42			.025	.92509	.02292	.00462	-.01830
		2506	2.150					
410.0	367.93			-.017	.92481	-.01606	.01482	.03088
		2420	2.150					
412.0	370.35			.026	.92419	.02397	-.00904	-.03301
		2549	2.150					
414.0	372.90			-.052	.92173	-.04764	-.02609	.02155
		2299	2.150					

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
416.0	375.20			.057	.91871	.05277	.02935	-.02342
		2578	2.150					
418.0	377.77			.012	.91857	.01142	.03243	.02100
		2643	2.150					
420.0	380.42			-.025	.91800	-.02281	-.02965	-.00684
		2515	2.150					
422.0	382.93			.025	.91741	.02329	.01908	-.00421
		2646	2.150					
424.0	385.58			-.023	.91694	-.02083	-.01154	.00929
		2528	2.150					
426.0	388.11			-.019	.91661	-.01741	-.02008	-.00268
		2434	2.150					
428.0	390.54			.041	.91508	.03738	.02616	-.01122
		2641	2.150					
430.0	393.18			-.029	.91430	-.02672	.00090	.02761
		2491	2.150					
432.0	395.67			.038	.91298	.03480	-.00331	-.03811
		2689	2.150					
434.0	398.36			-.028	.91225	-.02573	.00125	.02698
		2541	2.150					
436.0	400.90			.026	.91163	.02395	.00783	-.01612
		2678	2.150					
438.0	403.58			-.020	.91126	-.01826	-.00856	.00970
		2573	2.150					
440.0	406.15			.010	.91117	.00930	.00352	-.00578
		2626	2.150					
442.0	408.78			-.002	.91116	-.00210	-.00431	-.00222
		2614	2.150					
444.0	411.39			.017	.91089	.01580	.02601	.01022
		2706	2.150					
446.0	414.10			-.003	.91088	-.00319	-.01677	-.01359
		2687	2.150					
448.0	416.79			-.032	.90996	-.02883	-.01108	.01775
		2522	2.150					
450.0	419.31			.036	.90882	.03230	.01431	-.01800
		2708	2.150					
452.0	422.02			0	.90882	-.00019	.01097	.01115
		2707	2.150					
454.0	424.73			.036	.90761	.03308	.03006	-.00303
		2912	2.150					
456.0	427.64			-.024	.90710	-.02164	-.02155	.00009
		2776	2.150					
458.0	430.41			.012	.90696	.01091	.01761	.00670
		2844	2.150					
460.0	433.26			-.024	.90645	-.02154	-.02471	-.00317
		2712	2.150					
462.0	435.97			.026	.90586	.02326	.02513	.00187
		2854	2.150					
464.0	438.82			-.012	.90572	-.01114	-.01410	-.00296

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
		2785	2.150					
466.0	441.61			0	.90572	.00009	-.00414	-.00424
		2786	2.150					
468.0	444.39			-.072	.90108	-.06481	-.05895	.00585
		2414	2.150					
470.0	446.81			.055	.89840	.04918	.03497	-.01421
		2692	2.150					
472.0	449.50			0	.89840	.00030	.00818	.00788
		2694	2.150					
474.0	452.19			-.011	.89830	-.00952	-.00979	-.00026
		2638	2.150					
476.0	454.83			.023	.89784	.02026	.01812	-.00214
		2759	2.150					
478.0	457.59			-.089	.89065	-.08032	-.06929	.01103
		2306	2.150					
480.0	459.90			.014	.89049	.01204	-.01800	-.03004
		2369	2.150					
482.0	462.27			-.013	.89035	-.01133	.02611	.03744
		2310	2.150					
484.0	464.58			.085	.88398	.07527	.03975	-.03553
		2736	2.150					
486.0	467.31			-.056	.88125	-.04916	-.01749	.03167
		2448	2.150					
488.0	469.76			.037	.88004	.03264	.00626	-.02638
		2637	2.150					
490.0	472.40			.004	.88002	.00367	.01043	.00676
		2659	2.150					
492.0	475.06			-.037	.87883	-.03242	-.02025	.01218
		2470	2.150					
494.0	477.52			.020	.87849	.01732	-.00139	-.01871
		2569	2.150					
496.0	480.09			.027	.87783	.02400	.04402	.02001
		2713	2.150					
498.0	482.81			-.060	.87464	-.05293	-.05685	-.00392
		2405	2.150					
500.0	485.21			.010	.87455	.00901	-.01125	-.02026
		2455	2.150					
502.0	487.67			.050	.87232	.04414	.06923	.02509
		2716	2.150					
504.0	490.38			-.039	.87102	-.03372	-.04014	-.00643
		2514	2.150					
506.0	492.90			-.037	.86981	-.03246	-.04201	-.00955
		2333	2.150					
508.0	495.23			.029	.86909	.02501	.02922	.00421
		2471	2.150					
510.0	497.70			.054	.86652	.04728	.02650	-.02078
		2756	2.150					
512.0	500.46			-.057	.86370	-.04940	-.01538	.03402
		2458	2.150					

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
514.0	502.91			-.004	.86368	-.00385	-.04760	-.04375
		2437	2.150					
516.0	505.35			.053	.86123	.04606	.09019	.04413
		2711	2.150					
518.0	508.06			-.063	.85778	-.05446	-.06365	-.00918
		2389	2.150					
520.0	510.45			.075	.85293	.06450	.05040	-.01410
		2777	2.150					
522.0	513.23			.001	.85293	.00110	.01458	.01348
		2784	2.150					
524.0	516.01			-.031	.85210	-.02661	-.03893	-.01231
		2616	2.150					
526.0	518.63			-.029	.85140	-.02453	-.00805	.01648
		2469	2.150					
528.0	521.10			.004	.85138	.00339	-.01633	-.01973
		2489	2.150					
530.0	523.59			.032	.85053	.02686	.04638	.01952
		2651	2.150					
532.0	526.24			.004	.85052	.00366	-.02750	-.03116
		2674	2.150					
534.0	528.91			.010	.85044	.00814	.05053	.04240
		2726	2.150					
536.0	531.64			.028	.84979	.02359	.00600	-.01759
		2881	2.150					
538.0	534.52			-.081	.84420	-.06889	-.05020	.01869
		2449	2.150					
540.0	536.97			.005	.84418	.00430	-.02002	-.02432
		2474	2.150					
542.0	539.44			.081	.83868	.06813	.07091	.00279
		2909	2.150					
544.0	542.35			-.027	.83809	-.02235	-.01126	.01108
		2758	2.150					
546.0	545.11			.019	.83777	.01628	.00465	-.01163
		2867	2.150					
548.0	547.97			-.022	.83735	-.01866	-.00215	.01651
		2742	2.150					
550.0	550.72			-.038	.83613	-.03198	-.03624	-.00426
		2540	2.150					
552.0	553.26			.022	.83572	.01857	-.00583	-.02441
		2656	2.150					
554.0	555.91			.010	.83563	.00846	.02964	.02118
		2710	2.150					
556.0	558.62			.031	.83485	.02556	.03476	.00920
		2881	2.150					
558.0	561.50			-.003	.83485	-.00238	-.03083	-.02845
		2865	2.150					
560.0	564.37			-.016	.83462	-.01358	.03414	.04772
		2773	2.150					
562.0	567.14			-.007	.83458	-.00599	-.05364	-.04765

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
		2733	2.150					
564.0	569.88			-.016	.83436	-.01366	.01692	.03058
		2645	2.150					
566.0	572.52			.014	.83419	.01195	-.00206	-.01401
		2722	2.150					
568.0	575.24			.029	.83347	.02454	.02955	.00501
		2887	2.150					
570.0	578.13			.003	.83346	.00242	-.00485	-.00727
		2904	2.150					
572.0	581.03			.001	.83346	.00104	.00764	.00660
		2911	2.150					
574.0	583.95			.005	.83343	.00434	.01153	.00718
		2942	2.150					
576.0	586.89			.059	.83057	.04882	.07103	.02221
		3308	2.150					
578.0	590.20			-.025	.83007	-.02050	-.05740	-.03690
		3149	2.150					
580.0	593.34			-.027	.82946	-.02255	-.00068	.02187
		2982	2.150					
582.0	596.33			.013	.82932	.01057	-.00688	-.01746
		3059	2.150					
584.0	599.39			-.068	.82551	-.05621	-.04550	.01071
		2671	2.150					
586.0	602.06			-.012	.82539	-.01016	-.00419	.00597
		2606	2.150					
588.0	604.66			.064	.82205	.05249	.02187	-.03063
		2960	2.150					
590.0	607.62			-.004	.82204	-.00308	.02091	.02399
		2938	2.150					
592.0	610.56			-.003	.82203	-.00231	-.02051	-.01819
		2921	2.150					
594.0	613.48			-.023	.82159	-.01896	.00122	.02018
		2789	2.150					
596.0	616.27			.013	.82145	.01066	.00969	-.00096
		2863	2.150					
598.0	619.13			-.050	.81936	-.04144	-.05693	-.01549
		2588	2.150					
600.0	621.72			.051	.81727	.04139	.04558	.00419
		2863	2.150					
602.0	624.58			-.023	.81682	-.01913	-.03371	-.01457
		2732	2.150					
604.0	627.32			-.022	.81643	-.01783	-.01948	-.00165
		2615	2.150					
606.0	629.93			-.003	.81643	-.00231	.01983	.02214
		2601	2.150					
608.0	632.53			.069	.81250	.05660	.05033	-.00627
		2988	2.150					
610.0	635.52			-.012	.81239	-.00957	-.00924	.00033
		2919	2.150					

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
612.0	638.44			.001	.81239	.00091	-.00381	-.00471
		2925	2.150					
614.0	641.36			.023	.81197	.01856	.01143	-.00713
		3062	2.150					
616.0	644.43			-.048	.81010	-.03891	-.01857	.02034
		2782	2.150					
618.0	647.21			-.019	.80981	-.01532	-.02553	-.01021
		2679	2.150					
620.0	649.89			-.009	.80975	-.00698	.00981	.01680
		2633	2.150					
622.0	652.52			.070	.80580	.05660	.02804	-.02856
		3029	2.150					
624.0	655.55			-.056	.80328	-.04498	-.04388	.00109
		2708	2.150					
626.0	658.26			.022	.80290	.01760	.02207	.00447
		2830	2.150					
628.0	661.09			.003	.80289	.00216	-.00214	-.00430
		2845	2.150					
630.0	663.93			-.028	.80228	-.02223	-.01869	.00354
		2692	2.150					
632.0	666.62			-.018	.80202	-.01431	-.00735	.00696
		2597	2.150					
634.0	669.22			.060	.79916	.04788	.02696	-.02092
		2927	2.150					
636.0	672.15			-.054	.79688	-.04276	-.03341	.00935
		2630	2.150					
638.0	674.78			.030	.79617	.02378	-.00232	-.02610
		2792	2.150					
640.0	677.57			.020	.79584	.01622	.07113	.05491
		2908	2.150					
642.0	680.48			-.022	.79546	-.01733	-.02915	-.01182
		2784	2.150					
644.0	683.26			0	.79546	-.00009	-.01659	-.01650
		2783	2.150					
646.0	686.04			.050	.79349	.03960	.03154	-.00807
		3075	2.150					
648.0	689.12			-.024	.79302	-.01930	.00532	.02462
		2929	2.150					
650.0	692.05			-.022	.79263	-.01744	-.05893	-.04149
		2803	2.150					
652.0	694.85			.001	.79263	.00084	.05293	.05209
		2809	2.150					
654.0	697.66			-.001	.79263	-.00067	-.00139	-.00072
		2804	2.150					
656.0	700.46			.024	.79219	.01879	-.00175	-.02053
		2940	2.150					
658.0	703.40			-.004	.79217	-.00336	.00019	.00354
		2915	2.150					
660.0	706.32			-.039	.79099	-.03063	-.03786	-.00722

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
		2698	2.150					
662.0	709.01			-.032	.79017	-.02541	-.02913	-.00372
		2530	2.150					
664.0	711.55			.038	.78901	.03028	.03960	.00931
		2732	2.150					
666.0	714.28			-.015	.78884	-.01172	-.00741	.00431
		2652	2.150					
668.0	716.93			.012	.78872	.00960	-.00806	-.01766
		2717	2.150					
670.0	719.65			.043	.78725	.03405	.01494	-.01911
		2962	2.150					
672.0	722.61			-.068	.78359	-.05368	-.01513	.03855
		2584	2.150					
674.0	725.19			.076	.77903	.05978	.05782	-.00196
		3011	2.150					
676.0	728.20			-.024	.77860	-.01837	-.00775	.01062
		2872	2.150					
678.0	731.08			.009	.77854	.00663	-.01365	-.02028
		2922	2.150					
680.0	734.00			-.024	.77810	-.01847	-.01167	.00680
		2786	2.150					
682.0	736.78			-.003	.77810	-.00237	-.02227	-.01990
		2769	2.150					
684.0	739.55			.013	.77797	.01007	.02103	.01096
		2842	2.150					
686.0	742.40			.029	.77731	.02258	.03218	.00960
		3012	2.150					
688.0	745.41			-.056	.77491	-.04320	-.03558	.00762
		2695	2.150					
690.0	748.10			.029	.77424	.02278	-.00422	-.02700
		2858	2.150					
692.0	750.96			-.021	.77391	-.01594	.00597	.02191
		2743	2.150					
694.0	753.70			-.003	.77391	-.00210	-.00363	-.00153
		2728	2.150					
696.0	756.43			.019	.77362	.01488	-.00208	-.01697
		2835	2.150					
698.0	759.27			.019	.77335	.01434	.04355	.02921
		2942	2.150					
700.0	762.21			-.015	.77318	-.01153	-.01351	-.00199
		2855	2.150					
702.0	765.06			-.050	.77123	-.03882	-.05825	-.01942
		2582	2.150					
704.0	767.65			.022	.77084	.01730	-.00589	-.02318
		2701	2.150					
706.0	770.35			.010	.77077	.00764	.02721	.01957
		2755	2.150					
708.0	773.10			.013	.77063	.01030	.00371	-.00659
		2830	2.150					

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	775.93			-.050	.76867	-.03886	-.02002	.01884
		2558	2.150					
712.0	778.49			.017	.76846	.01286	-.00153	-.01439
		2645	2.150					
714.0	781.13			.002	.76845	.00134	.01639	.01505
		2654	2.150					
716.0	783.79			.009	.76840	.00660	-.01689	-.02349
		2700	2.150					
718.0	786.49			.019	.76811	.01495	.02132	.00637
		2807	2.150					
720.0	789.30			.022	.76773	.01701	.03046	.01345
		2935	2.150					
722.0	792.23			-.023	.76732	-.01765	.00083	.01848
		2803	2.150					
724.0	795.03			.024	.76688	.01835	-.01575	-.03410
		2940	2.150					
726.0	797.97			.019	.76660	.01486	.01965	.00479
		2892	2.272					
728.0	800.87			-.055	.76430	-.04193	-.01431	.02761
		2653	2.220					
730.0	803.52			-.033	.76346	-.02539	-.04855	-.02317
		2530	2.178					
732.0	806.05			.008	.76342	.00585	.00627	.00042
		2529	2.213					
734.0	808.58			.134	.74971	.10229	.11362	.01132
		3178	2.306					
736.0	811.75			-.058	.74723	-.04313	-.04498	-.00185
		2767	2.360					
738.0	814.52			-.015	.74707	-.01096	-.04161	-.03064
		2686	2.361					
740.0	817.21			-.020	.74677	-.01490	.03588	.05078
		2599	2.345					
742.0	819.81			.046	.74522	.03404	.00589	-.02815
		2819	2.368					
744.0	822.62			.090	.73915	.06726	.07458	.00732
		3265	2.450					
746.0	825.89			-.070	.73549	-.05198	-.01490	.03708
		2957	2.350					
748.0	828.85			-.060	.73283	-.04421	-.06911	-.02490
		2622	2.350					
750.0	831.47			.005	.73281	.00378	-.02087	-.02465
		2649	2.349					
752.0	834.12			.031	.73211	.02266	.04199	.01933
		2798	2.367					
754.0	836.92			-.007	.73207	-.00537	.00454	.00990
		2754	2.370					
756.0	839.67			-.055	.72986	-.04027	-.07877	-.03850
		2573	2.271					
758.0	842.24			.032	.72911	.02333	.04523	.02191

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
		2670	2.334					
760.0	844.91			.037	.72812	.02696	.01665	-.01031
		2852	2.353					
762.0	847.76			-.027	.72760	-.01943	-.01140	.00803
		2686	2.368					
764.0	850.45			.099	.72044	.07214	.04819	-.02396
		3241	2.395					
766.0	853.69			-.087	.71495	-.06294	.00888	.07182
		2869	2.270					
768.0	856.56			-.016	.71476	-.01154	-.04262	-.03108
		2824	2.233					
770.0	859.38			-.026	.71427	-.01875	-.01796	.00079
		2743	2.182					
772.0	862.13			-.036	.71334	-.02576	-.05234	-.02658
		2786	1.999					
774.0	864.91			.076	.70922	.05419	.06278	.00860
		2875	2.255					
776.0	867.79			-.103	.70165	-.07327	-.08099	-.00772
		2478	2.127					
778.0	870.27			.003	.70165	.00199	-.00586	-.00785
		2508	2.113					
780.0	872.77			.058	.69931	.04051	.05973	.01922
		2642	2.252					
782.0	875.42			-.083	.69452	-.05788	-.08597	-.02808
		2465	2.045					
784.0	877.88			.067	.69135	.04687	.02958	-.01729
		2600	2.219					
786.0	880.48			-.017	.69116	-.01148	.02085	.03233
		2571	2.171					
788.0	883.05			-.027	.69065	-.01881	.00148	.02029
		2507	2.108					
790.0	885.56			.081	.68612	.05596	.01483	-.04113
		2665	2.333					
792.0	888.22			-.143	.67207	-.09818	-.05684	.04134
		2335	1.996					
794.0	890.56			.046	.67062	.03116	-.04188	-.07305
		2352	2.174					
796.0	892.91			.096	.66443	.06443	.08679	.02236
		2672	2.321					
798.0	895.58			-.023	.66408	-.01529	.03663	.05192
		2585	2.291					
800.0	898.17			-.057	.66192	-.03789	-.07286	-.03497
		2371	2.227					
802.0	900.54			.049	.66036	.03211	.02671	-.00540
		2518	2.311					
804.0	903.06			-.032	.65971	-.02082	-.02612	-.00531
		2440	2.240					
806.0	905.50			-.037	.65882	-.02415	-.00294	.02122
		2318	2.191					

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
808.0	907.81			.016	.65864	.01081	-.00152	-.01234
		2343	2.240					
810.0	910.16			.051	.65696	.03329	.02368	-.00960
		2456	2.364					
812.0	912.61			-.016	.65679	-.01075	-.02340	-.01265
		2440	2.303					
814.0	915.05			-.003	.65678	-.00200	.04966	.05166
		2474	2.258					
816.0	917.53			-.007	.65675	-.00482	-.04609	-.04128
		2475	2.224					
818.0	920.00			-.018	.65654	-.01150	.04242	.05392
		2411	2.204					
820.0	922.41			.034	.65578	.02237	-.02334	-.04571
		2458	2.315					
822.0	924.87			-.017	.65559	-.01124	-.01745	-.00620
		2469	2.227					
824.0	927.34			-.033	.65486	-.02191	-.03056	-.00865
		2356	2.183					
826.0	929.70			.023	.65451	.01496	.03116	.01620
		2429	2.216					
828.0	932.13			.058	.65228	.03827	.04890	.01063
		2641	2.291					
830.0	934.77			-.051	.65061	-.03296	-.03996	-.00699
		2479	2.206					
832.0	937.25			.015	.65046	.01007	-.00520	-.01526
		2491	2.264					
834.0	939.74			-.023	.65012	-.01472	-.00267	.01205
		2416	2.232					
836.0	942.15			.048	.64864	.03104	.01858	-.01246
		2562	2.316					
838.0	944.72			-.047	.64721	-.03049	.02525	.05574
		2400	2.249					
840.0	947.12			.020	.64695	.01278	-.00523	-.01802
		2420	2.321					
842.0	949.54			.079	.64291	.05113	-.00893	-.06006
		2700	2.438					
844.0	952.24			-.085	.63824	-.05480	.04147	.09627
		2450	2.264					
846.0	954.69			.011	.63816	.00716	-.01850	-.02566
		2516	2.255					
848.0	957.20			-.037	.63727	-.02390	-.06204	-.03814
		2423	2.172					
850.0	959.62			.012	.63717	.00782	.01445	.00662
		2465	2.189					
852.0	962.09			-.009	.63712	-.00583	.00534	.01117
		2430	2.180					
854.0	964.52			.052	.63542	.03286	.01871	-.01415
		2569	2.286					
856.0	967.09			-.008	.63539	-.00484	-.01898	-.01414

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
		2485	2.328					
858.0	969.57			-.041	.63432	-.02599	.03026	.05625
		2421	2.201					
860.0	971.99			.025	.63394	.01556	-.01839	-.03395
		2499	2.240					
862.0	974.49			-.084	.62949	-.05310	-.06775	-.01465
		2382	1.986					
864.0	976.88			.032	.62885	.02012	.03735	.01724
		2364	2.134					
866.0	979.24			.046	.62749	.02921	.02159	-.00762
		2526	2.192					
868.0	981.77			.002	.62749	.00107	-.00286	-.00393
		2498	2.224					
870.0	984.26			.083	.62317	.05208	.07275	.02067
		2623	2.501					
872.0	986.89			-.080	.61920	-.04975	-.03382	.01592
		2516	2.222					
874.0	989.40			-.031	.61862	-.01897	-.02952	-.01055
		2448	2.148					
876.0	991.85			.021	.61833	.01324	-.02923	-.04247
		2524	2.175					
878.0	994.38			.054	.61652	.03347	.08871	.05525
		2766	2.211					
880.0	997.14			.004	.61651	.00217	-.03047	-.03264
		2802	2.198					
882.0	999.94			-.101	.61021	-.06232	-.03633	.02598
		2510	2.004					
884.0	1002.45			-.022	.60991	-.01370	-.02039	-.00670
		2443	1.968					
886.0	1004.90			.095	.60438	.05806	.07110	.01304
		2583	2.253					
888.0	1007.48			.003	.60437	.00208	-.04546	-.04754
		2739	2.139					
890.0	1010.22			-.043	.60325	-.02604	.01423	.04027
		2476	2.171					
892.0	1012.70			-.017	.60307	-.01055	-.01857	-.00803
		2476	2.097					
894.0	1015.17			.039	.60213	.02377	-.00436	-.02813
		2405	2.336					
896.0	1017.58			-.004	.60212	-.00244	.02675	.02920
		2454	2.271					
898.0	1020.03			.024	.60177	.01447	.02267	.00820
		2527	2.314					
900.0	1022.56			-.009	.60173	-.00512	-.04085	-.03573
		2523	2.279					
902.0	1025.08			-.044	.60058	-.02626	.00616	.03241
		2482	2.123					
904.0	1027.56			-.039	.59969	-.02319	-.03911	-.01592
		2418	2.016					

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
906.0	1029.98			.046	.59841	.02771	.03470	.00699
		2463	2.171					
908.0	1032.44			.032	.59780	.01899	-.01285	-.03184
		2574	2.214					
910.0	1035.02			-.006	.59778	-.00370	.01686	.02056
		2587	2.175					
912.0	1037.60			.021	.59753	.01228	.03894	.02666
		2556	2.294					
914.0	1040.16			-.018	.59733	-.01083	-.05249	-.04166
		2488	2.273					
916.0	1042.65			.052	.59570	.03119	.06496	.03377
		2619	2.397					
918.0	1045.27			-.017	.59553	-.01018	-.00997	.00021
		2679	2.265					
920.0	1047.95			.006	.59551	.00344	.01420	.01076
		2662	2.306					
922.0	1050.61			.031	.59494	.01843	.01848	.00004
		2771	2.357					
924.0	1053.38			-.034	.59425	-.02028	-.00131	.01897
		2646	2.306					
926.0	1056.02			-.008	.59421	-.00448	-.03879	-.03431
		2582	2.327					
928.0	1058.61			-.001	.59421	-.00055	.00062	.00117
		2595	2.311					
930.0	1061.20			0	.59421	.00019	.02175	.02156
		2640	2.273					
932.0	1063.84			.035	.59350	.02059	-.01247	-.03306
		2739	2.349					
934.0	1066.58			-.033	.59287	-.01933	.02651	.04584
		2590	2.327					
936.0	1069.17			.027	.59244	.01604	-.00806	-.02410
		2698	2.358					
938.0	1071.87			-.026	.59204	-.01527	-.01162	.00365
		2617	2.309					
940.0	1074.49			-.031	.59146	-.01852	-.04639	-.02787
		2582	2.199					
942.0	1077.07			.045	.59029	.02635	.06414	.03780
		2649	2.342					
944.0	1079.72			-.026	.58990	-.01517	.02441	.03957
		2624	2.246					
946.0	1082.34			.025	.58952	.01503	-.04996	-.06499
		2695	2.301					
948.0	1085.04			.051	.58796	.03032	-.01398	-.04429
		2887	2.382					
950.0	1087.92			-.021	.58769	-.01247	.08180	.09427
		2801	2.352					
952.0	1090.72			-.026	.58729	-.01536	-.03568	-.02033
		2668	2.344					
954.0	1093.39			.016	.58714	.00940	.02958	.02018

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
		2671	2.417					
956.0	1096.06			-.028	.58669	-.01627	-.05168	-.03542
		2621	2.331					
958.0	1098.68			0	.58669	-.00010	.02252	.02262
		2594	2.354					
960.0	1101.28			.002	.58669	.00097	-.02694	-.02791
		2614	2.344					
962.0	1103.89			.035	.58597	.02049	.01318	-.00731
		2775	2.368					
964.0	1106.67			-.036	.58523	-.02092	.04379	.06471
		2630	2.326					
966.0	1109.30			.016	.58507	.00946	-.03644	-.04590
		2691	2.348					
968.0	1111.99			.029	.58457	.01708	-.00624	-.02332
		2830	2.367					
970.0	1114.82			-.037	.58378	-.02153	.04822	.06976
		2658	2.341					
972.0	1117.48			-.025	.58341	-.01480	-.05579	-.04100
		2512	2.355					
974.0	1119.99			.016	.58326	.00917	.00768	-.00148
		2657	2.297					
976.0	1122.64			-.016	.58311	-.00939	-.00887	.00053
		2600	2.274					
978.0	1125.24			.030	.58259	.01739	-.01744	-.03484
		2653	2.365					
980.0	1127.90			-.003	.58259	-.00161	.02777	.02938
		2640	2.363					
982.0	1130.54			.019	.58238	.01097	-.00358	-.01455
		2723	2.379					
984.0	1133.26			-.001	.58238	-.00032	.01548	.01580
		2727	2.373					
986.0	1135.99			-.005	.58237	-.00267	-.04227	-.03961
		2739	2.341					
988.0	1138.73			-.013	.58226	-.00782	.00195	.00976
		2656	2.350					
990.0	1141.38			-.010	.58220	-.00588	.05857	.06445
		2659	2.301					
992.0	1144.04			.027	.58178	.01581	-.03514	-.05095
		2735	2.362					
994.0	1146.78			-.039	.58091	-.02244	-.04447	-.02203
		2574	2.323					
996.0	1149.35			.003	.58090	.00194	.04692	.04498
		2578	2.335					
998.0	1151.93			-.012	.58082	-.00708	-.03229	-.02522
		2585	2.273					
1000.0	1154.51			.027	.58038	.01587	.00711	-.00875
		2686	2.311					
1002.0	1157.20			.059	.57838	.03414	.05913	.02499
		2993	2.332					

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
1004.0	1160.19			-.078	.57490	-.04487	-.03866	.00621
		2629	2.273					
1006.0	1162.82			-.005	.57488	-.00270	-.04553	-.04283
		2606	2.272					
1008.0	1165.43			.036	.57415	.02053	.02280	.00227
		2695	2.359					
1010.0	1168.12			.002	.57415	.00126	.07224	.07098
		2695	2.369					
1012.0	1170.82			.040	.57323	.02298	-.05814	-.08112
		2874	2.408					
1014.0	1173.69			-.055	.57149	-.03158	.01054	.04211
		2649	2.339					
1016.0	1176.34			-.004	.57148	-.00206	.00926	.01131
		2625	2.343					
1018.0	1178.97			.035	.57076	.02023	-.01571	-.03593
		2769	2.385					
1020.0	1181.74			.049	.56938	.02815	.05300	.02484
		3024	2.410					
1022.0	1184.76			-.087	.56511	-.04927	-.06330	-.01403
		2622	2.337					
1024.0	1187.38			.070	.56236	.03942	.04841	.00899
		2935	2.401					
1026.0	1190.32			-.009	.56232	-.00489	.00995	.01484
		2870	2.413					
1028.0	1193.19			-.028	.56189	-.01554	-.02799	-.01245
		2748	2.384					
1030.0	1195.93			-.003	.56188	-.00180	-.01613	-.01433
		2721	2.393					
1032.0	1198.66			.029	.56143	.01606	-.00858	-.02464
		2855	2.414					
1034.0	1201.51			-.069	.55877	-.03858	.04192	.08050
		2574	2.334					
1036.0	1204.08			.037	.55802	.02058	-.03360	-.05418
		2709	2.387					
1038.0	1206.79			.008	.55798	.00448	.02072	.01624
		2766	2.375					
1040.0	1209.56			-.043	.55697	-.02378	-.03654	-.01276
		2647	2.279					
1042.0	1212.21			-.002	.55697	-.00104	-.02817	-.02714
		2688	2.236					
1044.0	1214.89			.093	.55216	.05171	.07714	.02543
		2984	2.427					
1046.0	1217.88			.052	.55066	.02884	.04361	.01477
		3209	2.505					
1048.0	1221.09			-.014	.55055	-.00790	.02913	.03703
		3191	2.448					
1050.0	1224.28			-.022	.55029	-.01192	-.02427	-.01235
		3111	2.405					
1052.0	1227.39			-.006	.55027	-.00336	-.00023	.00313

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
		3079	2.400					
1054.0	1230.47			.013	.55018	.00688	.01331	.00643
		3071	2.467					
1056.0	1233.54			.006	.55016	.00338	.01232	.00894
		3221	2.381					
1058.0	1236.76			-.011	.55009	-.00615	-.01986	-.01372
		3180	2.359					
1060.0	1239.94			.024	.54979	.01293	.01820	.00527
		3248	2.421					
1062.0	1243.19			-.027	.54938	-.01496	-.04535	-.03039
		3092	2.408					
1064.0	1246.28			-.109	.54280	-.06012	-.04563	.01449
		2727	2.192					
1066.0	1249.01			.029	.54233	.01599	-.01232	-.02831
		2898	2.188					
1068.0	1251.90			.023	.54203	.01271	.04733	.03462
		2930	2.267					
1070.0	1254.83			.032	.54147	.01751	-.00973	-.02724
		3077	2.304					
1072.0	1257.91			-.037	.54073	-.01998	-.05723	-.03724
		2979	2.210					
1074.0	1260.89			.024	.54040	.01322	.08595	.07272
		3010	2.297					
1076.0	1263.90			-.035	.53973	-.01906	-.06087	-.04181
		2886	2.232					
1078.0	1266.79			.012	.53965	.00673	.03138	.02465
		2938	2.248					
1080.0	1269.72			-.024	.53934	-.01286	.00702	.01989
		2901	2.171					
1082.0	1272.63			.020	.53912	.01104	-.03879	-.04983
		2879	2.279					
1084.0	1275.50			.022	.53885	.01199	.01172	-.00027
		3034	2.261					
1086.0	1278.54			-.009	.53881	-.00474	.01157	.01630
		2995	2.251					
1088.0	1281.53			-.121	.53092	-.06520	-.08103	-.01583
		2590	2.040					
1090.0	1284.12			.160	.51728	.08510	.11037	.02527
		3099	2.356					
1092.0	1287.22			-.013	.51719	-.00691	-.02326	-.01635
		3085	2.305					
1094.0	1290.31			-.035	.51655	-.01814	-.03412	-.01598
		2914	2.274					
1096.0	1293.22			-.012	.51648	-.00614	.04483	.05097
		2909	2.225					
1098.0	1296.13			.087	.51259	.04483	.00478	-.04004
		3184	2.419					
1100.0	1299.31			-.051	.51126	-.02609	.02807	.05417
		3070	2.266					

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
1102.0	1302.38			.003	.51125	.00168	-.03011	-.03179
		3041	2.303					
1104.0	1305.43			-.034	.51067	-.01721	-.03538	-.01817
		2911	2.249					
1106.0	1308.34			.048	.50950	.02444	-.03894	-.06338
		3123	2.307					
1108.0	1311.46			.073	.50678	.03726	.12389	.08664
		3502	2.382					
1110.0	1314.96			-.086	.50304	-.04355	.00082	.04437
		3211	2.186					
1112.0	1318.17			.005	.50302	.00257	-.06478	-.06735
		3151	2.251					
1114.0	1321.32			-.036	.50235	-.01835	-.01267	.00568
		2935	2.246					
1116.0	1324.26			.039	.50159	.01957	.02451	.00494
		3165	2.252					
1118.0	1327.42			-.049	.50037	-.02471	-.06602	-.04131
		3010	2.146					
1120.0	1330.43			.039	.49962	.01943	.05021	.03077
		3018	2.313					
1122.0	1333.45			-.150	.48843	-.07478	-.08360	-.00882
		2493	2.071					
1124.0	1335.95			.080	.48526	.03931	.00196	-.03735
		2779	2.183					
1126.0	1338.72			.096	.48075	.04680	.09643	.04963
		3173	2.320					
1128.0	1341.90			-.007	.48073	-.00332	-.00745	-.00413
		3187	2.278					
1130.0	1345.08			-.142	.47105	-.06822	-.07340	-.00518
		2733	1.996					
1132.0	1347.82			.062	.46921	.02939	.01435	-.01505
		2897	2.134					
1134.0	1350.72			-.063	.46737	-.02936	.01715	.04650
		2703	2.018					
1136.0	1353.42			.056	.46589	.02630	-.06921	-.09551
		2750	2.220					
1138.0	1356.17			.081	.46287	.03751	.04662	.00911
		3152	2.276					
1140.0	1359.32			-.154	.45194	-.07113	-.03228	.03884
		2706	1.945					
1142.0	1362.03			.041	.45118	.01858	.01941	.00083
		2767	2.065					
1144.0	1364.79			.104	.44633	.04679	.01200	-.03480
		3050	2.307					
1146.0	1367.84			-.072	.44401	-.03216	.00263	.03479
		2778	2.193					
1148.0	1370.62			.023	.44377	.01035	.04459	.03424
		2883	2.213					
1150.0	1373.50			0	.44377	.00019	-.03239	-.03258

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
		2894	2.207					
1152.0	1376.40			.022	.44355	.00993	-.00508	-.01501
		2952	2.263					
1154.0	1379.35			.036	.44297	.01595	.04587	.02992
		3160	2.272					
1156.0	1382.51			-.026	.44267	-.01152	.04943	.06095
		3084	2.210					
1158.0	1385.59			.001	.44267	.00037	-.03874	-.03911
		3105	2.198					
1160.0	1388.70			.006	.44266	.00246	-.02046	-.02293
		3128	2.206					
1162.0	1391.83			.002	.44266	.00069	.04672	.04602
		3133	2.210					
1164.0	1394.96			.002	.44266	.00083	-.07081	-.07164
		3138	2.215					
1166.0	1398.10			.007	.44264	.00292	.03665	.03373
		3152	2.234					
1168.0	1401.25			.026	.44234	.01146	.01787	.00640
		3223	2.301					
1170.0	1404.47			.035	.44181	.01529	.04522	.02993
		3266	2.433					
1172.0	1407.74			.033	.44134	.01441	.01451	.00010
		3387	2.505					
1174.0	1411.12			-.072	.43908	-.03159	-.03827	-.00667
		3189	2.305					
1176.0	1414.31			-.001	.43908	-.00063	-.00015	.00047
		3214	2.280					
1178.0	1417.53			-.052	.43790	-.02272	-.01762	.00511
		2999	2.203					
1180.0	1420.53			-.054	.43662	-.02367	-.00166	.02201
		2925	2.027					
1182.0	1423.45			.055	.43531	.02394	-.07011	-.09405
		2959	2.236					
1184.0	1426.41			.008	.43529	.00337	.02598	.02261
		3065	2.193					
1186.0	1429.48			-.033	.43482	-.01424	-.05789	-.04365
		2963	2.125					
1188.0	1432.44			.105	.42999	.04581	.12909	.08328
		3271	2.378					
1190.0	1435.71			-.019	.42984	-.00814	-.00816	-.00002
		3202	2.339					
1192.0	1438.91			-.057	.42844	-.02456	.01349	.03805
		3048	2.192					
1194.0	1441.96			.027	.42813	.01146	-.02897	-.04044
		3125	2.255					
1196.0	1445.09			.036	.42758	.01535	-.00412	-.01947
		3193	2.371					
1198.0	1448.28			-.023	.42735	-.00996	-.03078	-.02081
		3145	2.297					

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
1200.0	1451.42			-.013	.42728	-.00548	.06894	.07442
		3083	2.285					
1202.0	1454.51			-.005	.42727	-.00200	-.02076	-.01876
		3224	2.164					
1204.0	1457.73			-.009	.42723	-.00379	-.02456	-.02077
		3028	2.263					
1206.0	1460.76			.003	.42723	.00144	-.02877	-.03021
		3053	2.260					
1208.0	1463.81			.040	.42656	.01689	.03920	.02231
		3184	2.345					
1210.0	1467.00			-.036	.42599	-.01553	-.02932	-.01379
		3097	2.242					
1212.0	1470.09			-.062	.42433	-.02660	-.02030	.00630
		2825	2.169					
1214.0	1472.92			-.109	.41929	-.04627	-.04407	.00220
		2448	2.011					
1216.0	1475.37			-.012	.41923	-.00507	-.07988	-.07481
		2414	1.991					
1218.0	1477.78			.081	.41651	.03376	-.03197	-.06574
		2580	2.189					
1220.0	1480.36			-.002	.41651	-.00104	.05073	.05177
		2533	2.218					
1222.0	1482.89			.153	.40678	.06364	.12270	.05906
		3226	2.370					
1224.0	1486.12			.038	.40618	.01565	-.00543	-.02108
		3437	2.402					
1226.0	1489.56			-.033	.40574	-.01338	.06907	.08245
		3220	2.401					
1228.0	1492.78			-.027	.40544	-.01106	-.02862	-.01756
		3186	2.298					
1230.0	1495.96			.010	.40540	.00412	.02018	.01606
		3222	2.319					
1232.0	1499.19			.009	.40536	.00355	.01641	.01286
		3220	2.361					
1234.0	1502.41			.001	.40536	.00051	-.03357	-.03408
		3227	2.362					
1236.0	1505.63			-.018	.40523	-.00730	-.01919	-.01189
		3162	2.325					
1238.0	1508.79			.019	.40509	.00767	.03480	.02713
		3225	2.368					
1240.0	1512.02			.022	.40489	.00902	.01094	.00192
		3296	2.423					
1242.0	1515.32			-.036	.40437	-.01449	-.03199	-.01750
		3207	2.317					
1244.0	1518.52			.019	.40422	.00781	-.01185	-.01966
		3323	2.325					
1246.0	1521.84			.033	.40377	.01345	.06717	.05372
		3444	2.398					
1248.0	1525.29			.015	.40368	.00595	.06305	.05710

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
		3482	2.442					
1250.0	1528.77			-.006	.40367	-.00225	-.06996	-.06772
		3405	2.470					
1252.0	1532.18			-.042	.40296	-.01692	.02301	.03993
		3224	2.398					
1254.0	1535.40			-.030	.40260	-.01205	-.03308	-.02104
		3207	2.271					
1256.0	1538.61			.058	.40123	.02351	.01582	-.00768
		3393	2.413					
1258.0	1542.00			-.003	.40122	-.00140	-.01601	-.01461
		3330	2.442					
1260.0	1545.33			-.050	.40023	-.01991	.00742	.02733
		3213	2.292					
1262.0	1548.54			-.029	.39989	-.01175	-.07039	-.05865
		3100	2.240					
1264.0	1551.64			.016	.39979	.00642	.00331	-.00311
		3166	2.264					
1266.0	1554.81			.021	.39961	.00843	.03691	.02848
		3194	2.341					
1268.0	1558.00			.036	.39909	.01436	.02658	.01221
		3305	2.431					
1270.0	1561.31			-.035	.39861	-.01382	-.02329	-.00947
		3292	2.278					
1272.0	1564.60			.002	.39861	.00082	.04993	.04911
		3312	2.273					
1274.0	1567.91			.038	.39804	.01508	-.02805	-.04313
		3449	2.355					
1276.0	1571.36			-.012	.39798	-.00487	.00203	.00690
		3406	2.326					
1278.0	1574.77			-.044	.39722	-.01744	-.00189	.01555
		3180	2.283					
1280.0	1577.95			.042	.39650	.01686	.00432	-.01253
		3282	2.408					
1282.0	1581.23			.033	.39608	.01300	-.02138	-.03437
		3361	2.511					
1284.0	1584.59			-.009	.39604	-.00373	.04585	.04958
		3361	2.464					
1286.0	1587.95			-.005	.39603	-.00205	-.02252	-.02047
		3412	2.402					
1288.0	1591.36			-.028	.39573	-.01093	-.01560	-.00467
		3250	2.386					
1290.0	1594.61			.041	.39506	.01630	.04444	.02814
		3423	2.460					
1292.0	1598.04			-.001	.39506	-.00049	-.01521	-.01472
		3403	2.469					
1294.0	1601.44			.003	.39505	.00135	-.03439	-.03574
		3412	2.479					
1296.0	1604.85			.005	.39504	.00190	.01286	.01096
		3450	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
1298.0	1608.30			.002	.39504	.00068	.07307	.07239
		3446	2.487					
1300.0	1611.75			.012	.39499	.00465	-.01344	-.01808
		3494	2.511					
1302.0	1615.24			-.009	.39496	-.00354	-.06243	-.05889
		3454	2.495					
1304.0	1618.69			-.008	.39493	-.00315	.00428	.00743
		3420	2.480					
1306.0	1622.11			.006	.39492	.00238	.06408	.06169
		3439	2.496					
1308.0	1625.55			-.005	.39491	-.00198	-.04731	-.04533
		3415	2.488					
1310.0	1628.97			.002	.39490	.00093	.02495	.02402
		3455	2.471					
1312.0	1632.42			.008	.39488	.00299	-.00051	-.00351
		3475	2.494					
1314.0	1635.90			-.009	.39485	-.00351	-.01443	-.01092
		3422	2.489					
1316.0	1639.32			.009	.39482	.00363	.01411	.01048
		3477	2.495					
1318.0	1642.80			-.003	.39481	-.00134	-.02876	-.02742
		3462	2.489					
1320.0	1646.26			-.005	.39480	-.00185	.02235	.02420
		3410	2.503					
1322.0	1649.67			.003	.39480	.00101	-.02057	-.02158
		3412	2.514					
1324.0	1653.08			0	.39480	-.00011	-.01277	-.01266
		3377	2.539					
1326.0	1656.46			0	.39480	.00008	.02061	.02053
		3384	2.535					
1328.0	1659.84			.009	.39477	.00369	.02077	.01708
		3527	2.478					
1330.0	1663.37			-.036	.39427	-.01402	-.00597	.00805
		3371	2.415					
1332.0	1666.74			-.006	.39426	-.00219	-.01492	-.01274
		3385	2.378					
1334.0	1670.12			.031	.39388	.01225	-.04660	-.05885
		3524	2.431					
1336.0	1673.65			.014	.39380	.00564	.01968	.01404
		3522	2.503					
1338.0	1677.17			-.016	.39370	-.00620	-.00781	-.00162
		3440	2.483					
1340.0	1680.61			.012	.39364	.00478	.05689	.05210
		3530	2.479					
1342.0	1684.14			0	.39364	.00002	-.03972	-.03974
		3503	2.499					
1344.0	1687.64			-.015	.39355	-.00583	.02671	.03254
		3441	2.470					
1346.0	1691.08			.026	.39328	.01037	.00461	-.00576

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
		3580	2.502					
1348.0	1694.66			-.013	.39322	-.00506	-.02795	-.02289
		3506	2.490					
1350.0	1698.17			.007	.39320	.00284	.01966	.01682
		3563	2.486					
1352.0	1701.73			0	.39320	0	-.01975	-.01976
		3552	2.494					
1354.0	1705.29			-.018	.39306	-.00727	.00937	.01665
		3439	2.482					
1356.0	1708.72			-.039	.39248	-.01516	-.02006	-.00490
		3324	2.377					
1358.0	1712.05			.038	.39191	.01494	.01524	.00029
		3473	2.455					
1360.0	1715.52			-.012	.39185	-.00486	-.05269	-.04783
		3441	2.417					
1362.0	1718.96			-.002	.39185	-.00061	.02469	.02531
		3457	2.399					
1364.0	1722.42			.009	.39181	.00365	.00567	.00202
		3463	2.440					
1366.0	1725.88			-.007	.39179	-.00267	.02226	.02494
		3394	2.455					
1368.0	1729.28			.030	.39145	.01162	.02905	.01743
		3480	2.541					
1370.0	1732.76			-.029	.39111	-.01151	.01693	.02844
		3438	2.425					
1372.0	1736.20			.008	.39109	.00311	-.04995	-.05306
		3433	2.468					
1374.0	1739.63			.014	.39101	.00528	-.02389	-.02917
		3486	2.497					
1376.0	1743.11			-.035	.39053	-.01373	.01861	.03234
		3415	2.376					
1378.0	1746.53			.019	.39039	.00750	.02172	.01422
		3455	2.440					
1380.0	1749.98			-.019	.39024	-.00753	.00201	.00954
		3395	2.389					
1382.0	1753.38			.015	.39015	.00595	-.04169	-.04765
		3439	2.432					
1384.0	1756.82			-.068	.38835	-.02654	.01761	.04415
		3199	2.281					
1386.0	1760.02			.128	.38196	.04981	-.03157	-.08138
		3817	2.474					
1388.0	1763.83			-.042	.38129	-.01593	.00659	.02253
		3481	2.496					
1390.0	1767.31			.001	.38129	.00038	.05803	.05764
		3457	2.518					
1392.0	1770.77			-.001	.38129	-.00054	-.01263	-.01209
		3463	2.507					
1394.0	1774.23			.009	.38126	.00340	.00350	.00010
		3504	2.522					

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
1396.0	1777.74			-.020	.38111	-.00765	.00177	.00941
		3492	2.431					
1398.0	1781.23			.006	.38109	.00219	-.04745	-.04963
		3470	2.475					
1400.0	1784.70			.012	.38104	.00441	.03898	.03457
		3499	2.512					
1402.0	1788.20			-.017	.38093	-.00648	.00292	.00940
		3477	2.443					
1404.0	1791.68			.023	.38074	.00861	.02698	.01837
		3504	2.537					
1406.0	1795.18			-.028	.38044	-.01060	-.04154	-.03095
		3372	2.493					
1408.0	1798.55			.034	.38001	.01290	-.00355	-.01645
		3600	2.500					
1410.0	1802.15			-.015	.37992	-.00566	.02546	.03111
		3472	2.516					
1412.0	1805.62			-.013	.37986	-.00485	-.00856	-.00371
		3438	2.476					
1414.0	1809.06			.019	.37972	.00716	-.01696	-.02412
		3550	2.491					
1416.0	1812.61			.006	.37971	.00223	-.02552	-.02775
		3581	2.498					
1418.0	1816.19			-.006	.37970	-.00239	.02176	.02415
		3510	2.517					
1420.0	1819.70			-.018	.37958	-.00665	-.00090	.00575
		3430	2.486					
1422.0	1823.13			.016	.37949	.00597	.04855	.04258
		3538	2.488					
1424.0	1826.67			-.014	.37941	-.00525	-.02940	-.02414
		3480	2.460					
1426.0	1830.15			.009	.37938	.00339	-.00952	-.01291
		3520	2.476					
1428.0	1833.67			-.011	.37934	-.00423	-.02625	-.02201
		3431	2.484					
1430.0	1837.10			.042	.37867	.01589	.04275	.02686
		3770	2.458					
1432.0	1840.87			-.021	.37851	-.00782	.01059	.01841
		3619	2.458					
1434.0	1844.49			-.052	.37747	-.01979	-.01676	.00303
		3356	2.387					
1436.0	1847.85			.038	.37693	.01439	.00471	-.00967
		3512	2.461					
1438.0	1851.36			.007	.37691	.00261	.03013	.02752
		3549	2.470					
1440.0	1854.91			-.020	.37675	-.00769	-.07501	-.06732
		3395	2.478					
1442.0	1858.30			.007	.37673	.00262	.05105	.04843
		3401	2.509					
1444.0	1861.70			-.024	.37651	-.00911	.00249	.01160

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
		3406	2.386					
1446.0	1865.11			.049	.37561	.01847	-.01464	-.03311
		3527	2.542					
1448.0	1868.64			.007	.37559	.00253	.01115	.00861
		3597	2.527					
1450.0	1872.23			-.022	.37541	-.00818	.00905	.01722
		3461	2.514					
1452.0	1875.69			.004	.37541	.00131	-.00681	-.00813
		3507	2.499					
1454.0	1879.20			-.019	.37527	-.00720	-.02675	-.01955
		3518	2.397					
1456.0	1882.72			.047	.37443	.01771	-.01233	-.03004
		3814	2.430					
1458.0	1886.53			-.008	.37441	-.00310	.07248	.07558
		3711	2.457					
1460.0	1890.24			-.034	.37398	-.01266	-.02899	-.01633
		3506	2.430					
1462.0	1893.75			.001	.37398	.00043	-.02168	-.02210
		3544	2.409					
1464.0	1897.29			.009	.37395	.00355	.00510	.00156
		3600	2.418					
1466.0	1900.89			-.017	.37384	-.00633	-.02812	-.02179
		3510	2.397					
1468.0	1904.40			.040	.37323	.01511	.05744	.04233
		3737	2.441					
1470.0	1908.14			-.026	.37297	-.00974	-.03582	-.02608
		3620	2.392					
1472.0	1911.76			-.008	.37295	-.00305	.03741	.04046
		3464	2.459					
1474.0	1915.22			.002	.37295	.00087	-.05097	-.05185
		3446	2.483					
1476.0	1918.67			.013	.37288	.00488	-.02331	-.02819
		3540	2.481					
1478.0	1922.21			.019	.37275	.00717	.04402	.03685
		3705	2.464					
1480.0	1925.92			-.012	.37269	-.00462	-.01808	-.01346
		3676	2.422					
1482.0	1929.59			-.009	.37266	-.00329	.05693	.06023
		3632	2.409					
1484.0	1933.23			-.013	.37260	-.00468	-.02156	-.01688
		3567	2.392					
1486.0	1936.79			.011	.37255	.00417	-.02235	-.02653
		3529	2.472					
1488.0	1940.32			-.002	.37255	-.00065	-.02065	-.01999
		3535	2.459					
1490.0	1943.86			.007	.37253	.00261	.07710	.07450
		3607	2.444					
1492.0	1947.46			.022	.37236	.00807	-.03122	-.03929
		3713	2.480					

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
1494.0	1951.18			.002	.37236	.00058	.03725	.03667
		3628	2.546					
1496.0	1954.80			-.009	.37233	-.00342	-.05879	-.05537
		3592	2.524					
1498.0	1958.40			.016	.37224	.00582	-.01233	-.01815
		3678	2.544					
1500.0	1962.07			-.013	.37217	-.00496	-.00254	.00242
		3730	2.442					
1502.0	1965.80			-.008	.37215	-.00280	.05327	.05607
		3664	2.449					
1504.0	1969.47			.030	.37180	.01133	-.01840	-.02973
		3824	2.494					
1506.0	1973.29			-.007	.37178	-.00265	.06078	.06343
		3697	2.544					
1508.0	1976.99			.003	.37178	.00121	-.02074	-.02195
		3754	2.521					
1510.0	1980.74			-.020	.37164	-.00731	-.03391	-.02661
		3738	2.434					
1512.0	1984.48			.001	.37164	.00055	-.01474	-.01529
		3659	2.494					
1514.0	1988.14			-.032	.37125	-.01198	-.03751	-.02554
		3570	2.397					
1516.0	1991.71			.025	.37101	.00946	.02504	.01558
		3650	2.467					
1518.0	1995.36			-.016	.37092	-.00588	.04032	.04620
		3570	2.443					
1520.0	1998.93			.028	.37063	.01022	-.03019	-.04041
		3750	2.458					
1522.0	2002.68			-.004	.37063	-.00131	.01897	.02028
		3693	2.478					
1524.0	2006.37			-.013	.37056	-.00500	-.01032	-.00532
		3672	2.426					
1526.0	2010.04			.014	.37049	.00505	.00156	-.00349
		3709	2.468					
1528.0	2013.75			.020	.37034	.00759	.02575	.01816
		3781	2.523					
1530.0	2017.53			-.013	.37028	-.00475	-.04387	-.03912
		3758	2.474					
1532.0	2021.29			.007	.37026	.00251	.00341	.00091
		3802	2.478					
1534.0	2025.09			.003	.37026	.00094	.00788	.00694
		3735	2.536					
1536.0	2028.83			-.002	.37026	-.00087	.03624	.03711
		3734	2.524					
1538.0	2032.56			.006	.37024	.00225	-.00324	-.00550
		3760	2.538					
1540.0	2036.32			-.005	.37023	-.00193	-.01465	-.01272
		3722	2.537					
1542.0	2040.04			.004	.37023	.00133	.02766	.02633

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
		3774	2.520					
1544.0	2043.82			.011	.37018	.00424	-.04112	-.04536
		3832	2.540					
1546.0	2047.65			.029	.36987	.01077	.02407	.01330
		4039	2.554					
1548.0	2051.69			.036	.36938	.01345	.03816	.02472
		4361	2.544					
1550.0	2056.05			-.006	.36936	-.00222	-.00896	-.00673
		4349	2.520					
1552.0	2060.40			-.032	.36899	-.01170	.01319	.02489
		4115	2.500					
1554.0	2064.51			.004	.36899	.00163	.02020	.01857
		4107	2.527					
1556.0	2068.62			-.041	.36837	-.01506	-.01433	.00074
		3880	2.465					
1558.0	2072.50			-.001	.36837	-.00054	-.00081	-.00027
		3901	2.445					
1560.0	2076.40			.006	.36836	.00222	-.03830	-.04053
		3896	2.477					
1562.0	2080.30			.019	.36823	.00691	.02825	.02134
		3944	2.541					
1564.0	2084.24			-.013	.36817	-.00474	-.02906	-.02432
		3965	2.464					
1566.0	2088.21			.013	.36810	.00494	-.02018	-.02511
		4064	2.469					
1568.0	2092.27			-.009	.36807	-.00321	.02262	.02583
		3994	2.468					
1570.0	2096.27			.100	.36439	.03682	.07493	.03812
		4685	2.572					
1572.0	2100.95			.015	.36431	.00550	-.02053	-.02603
		4849	2.561					
1574.0	2105.80			.013	.36424	.00483	.00928	.00445
		5007	2.547					
1576.0	2110.81			.001	.36424	.00054	.01123	.01069
		4978	2.569					
1578.0	2115.79			.018	.36413	.00646	.05530	.04884
		5078	2.610					
1580.0	2120.86			-.033	.36372	-.01210	-.01287	-.00077
		4774	2.598					
1582.0	2125.64			-.010	.36369	-.00348	.01875	.02223
		4721	2.577					
1584.0	2130.36			-.020	.36355	-.00717	-.05348	-.04630
		4741	2.467					
1586.0	2135.10			.019	.36342	.00692	-.02208	-.02900
		4971	2.444					
1588.0	2140.07			0	0	0	.06288	.06288
1590.0							.02817	.02817

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
1592.0							-.09315	-.09315
1594.0							.03358	.03358
1596.0							.00985	.00985
1598.0							-.03556	-.03556
1600.0							.06443	.06443
1602.0							-.04520	-.04520
1604.0							.01461	.01461
1606.0							-.00797	-.00797
1608.0							-.01353	-.01353
1610.0							-.00463	-.00463
1612.0							-.00584	-.00584
1614.0							.04490	.04490
1616.0							-.00179	-.00179
1618.0							-.02935	-.02935
1620.0							-.03344	-.03344
1622.0							.05477	.05477
1624.0							-.00093	-.00093
1626.0							.00531	.00531
1628.0							-.04213	-.04213
1630.0							-.00978	-.00978
1632.0							.00105	.00105
1634.0							.05318	.05318
1636.0							-.03745	-.03745
1638.0							-.05138	-.05138
1640.0							.07356	.07356

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
1642.0							.00387	.00387
1644.0							-.08416	-.08416
1646.0							.03073	.03073
1648.0							.01809	.01809
1650.0							-.00010	-.00010
1652.0							.00534	.00534
1654.0							-.03273	-.03273
1656.0							-.01870	-.01870
1658.0							.05705	.05705
1660.0							.00301	.00301
1662.0							-.02120	-.02120
1664.0							.01270	.01270
1666.0							-.02543	-.02543
1668.0							.01641	.01641
1670.0							.02247	.02247
1672.0							.00330	.00330
1674.0							.00147	.00147
1676.0							-.06160	-.06160
1678.0							.00992	.00992
1680.0							.07531	.07531
1682.0							.00165	.00165
1684.0							-.07854	-.07854
1686.0							.00484	.00484
1688.0							.03211	.03211

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
1690.0							.01922	.01922
1692.0							-.00427	-.00427
1694.0							.00349	.00349
1696.0							-.04863	-.04863
1698.0							-.02451	-.02451
1700.0							-.00153	-.00153
1702.0							.01910	.01910
1704.0							.01930	.01930
1706.0							-.00781	-.00781
1708.0							.02967	.02967
1710.0							-.00763	-.00763
1712.0							-.00373	-.00373
1714.0							.01339	.01339
1716.0							-.03122	-.03122
1718.0							.00081	.00081
1720.0							.00961	.00961
1722.0							-.05442	-.05442
1724.0							.01764	.01764
1726.0							.02400	.02400
1728.0							-.00965	-.00965
1730.0							-.01849	-.01849
1732.0							.06950	.06950
1734.0							-.02336	-.02336
1736.0							.00838	.00838
1738.0							-.01796	-.01796

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
1740.0							.02212	.02212
1742.0							-.02441	-.02441
1744.0							-.02585	-.02585
1746.0							.06647	.06647
1748.0							-.01561	-.01561
1750.0							-.01112	-.01112
1752.0							-.00726	-.00726
1754.0							.00431	.00431
1756.0							-.00871	-.00871
1758.0							-.01425	-.01425
1760.0							.00894	.00894
1762.0							.03370	.03370
1764.0							-.01494	-.01494
1766.0							-.01535	-.01535
1768.0							-.00781	-.00781
1770.0							.00708	.00708
1772.0							-.00042	-.00042
1774.0							-.00480	-.00480
1776.0							-.01768	-.01768
1778.0							.06661	.06661
1780.0							-.02023	-.02023
1782.0							-.01794	-.01794
1784.0							.04995	.04995
1786.0							-.00792	-.00792

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							.00852	.00852
1790.0							-.05177	-.05177
1792.0							.02034	.02034
1794.0							-.02411	-.02411
1796.0							-.01753	-.01753
1798.0							.01857	.01857
1800.0							.00323	.00323
1802.0							-.03691	-.03691
1804.0							.07122	.07122
1806.0							-.01332	-.01332
1808.0							-.01275	-.01275
1810.0							-.01354	-.01354
1812.0							.01254	.01254
1814.0							.01154	.01154
1816.0							.01830	.01830
1818.0							-.00659	-.00659
1820.0							-.00904	-.00904
1822.0							-.03353	-.03353
1824.0							.02036	.02036
1826.0							-.01371	-.01371
1828.0							.00750	.00750
1830.0							.00756	.00756
1832.0							-.02245	-.02245
1834.0							.03196	.03196
1836.0							-.02278	-.02278

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
1838.0							-.00695	-.00695
1840.0							.01151	.01151
1842.0							-.04143	-.04143
1844.0							.03187	.03187
1846.0							.04709	.04709
1848.0							-.07581	-.07581
1850.0							.01666	.01666
1852.0							.02026	.02026
1854.0							.00513	.00513
1856.0							-.02867	-.02867
1858.0							.01054	.01054
1860.0							.01809	.01809
1862.0							-.00182	-.00182
1864.0							.05584	.05584
1866.0							-.07226	-.07226
1868.0							.00366	.00366
1870.0							.02421	.02421
1872.0							.01609	.01609
1874.0							-.06810	-.06810
1876.0							-.00983	-.00983
1878.0							.02178	.02178
1880.0							.03269	.03269
1882.0							-.00316	-.00316
1884.0							-.04451	-.04451

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							-.01103	-.01103
1888.0							.03899	.03899
1890.0							-.03128	-.03128
1892.0							.06045	.06045
1894.0							-.00048	-.00048
1896.0							-.05570	-.05570
1898.0							.03660	.03660
1900.0							.01283	.01283
1902.0							-.03655	-.03655
1904.0							.03631	.03631
1906.0							-.00340	-.00340
1908.0							-.04692	-.04692
1910.0							.06042	.06042
1912.0							-.02456	-.02456
1914.0							-.01618	-.01618
1916.0							.02509	.02509
1918.0							.00997	.00997
1920.0							-.02539	-.02539
1922.0							-.03752	-.03752
1924.0							.02762	.02762
1926.0							.00336	.00336
1928.0							.00006	.00006
1930.0							.01714	.01714
1932.0							-.03331	-.03331
1934.0							.00396	.00396

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
1936.0							.02420	.02420
1938.0							-.01238	-.01238
1940.0							-.00308	-.00308
1942.0							-.01094	-.01094
1944.0							.01814	.01814
1946.0							.03605	.03605
1948.0							-.08009	-.08009
1950.0							.01878	.01878
1952.0							.05521	.05521
1954.0							-.06997	-.06997
1956.0							.02814	.02814
1958.0							.01830	.01830
1960.0							-.02118	-.02118
1962.0							.05290	.05290
1964.0							.00231	.00231
1966.0							-.05439	-.05439
1968.0							-.00763	-.00763
1970.0							.06167	.06167
1972.0							-.03729	-.03729
1974.0							-.00479	-.00479
1976.0							.03209	.03209
1978.0							-.08872	-.08872
1980.0							-.00596	-.00596
1982.0							.06968	.06968

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							-.00426	-.00426
1986.0							-.00284	-.00284
1988.0							-.01614	-.01614
1990.0							.01729	.01729
1992.0							.02009	.02009
1994.0							-.00381	-.00381
1996.0							.01318	.01318
1998.0							-.02162	-.02162
2000.0							-.02157	-.02157
2002.0							-.01013	-.01013
2004.0							.03899	.03899
2006.0							-.02392	-.02392
2008.0							.00817	.00817
2010.0							.01129	.01129
2012.0							-.05325	-.05325
2014.0							.01104	.01104
2016.0							.07767	.07767
2018.0							-.06629	-.06629
2020.0							.00535	.00535
2022.0							.01522	.01522
2024.0							.00114	.00114
2026.0							.02604	.02604
2028.0							-.05234	-.05234
2030.0							.02059	.02059
2032.0							-.04770	-.04770

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
2034.0							.05450	.05450
2036.0							.00295	.00295
2038.0							.01525	.01525
2040.0							-.02983	-.02983
2042.0							.04987	.04987
2044.0							-.01634	-.01634
2046.0							-.01949	-.01949
2048.0							-.04447	-.04447
2050.0							.04193	.04193
2052.0							-.02806	-.02806
2054.0							-.01004	-.01004
2056.0							.04710	.04710
2058.0							-.00451	-.00451
2060.0							-.00073	-.00073
2062.0							-.00904	-.00904
2064.0							-.01236	-.01236
2066.0							-.01803	-.01803
2068.0							.01151	.01151
2070.0							-.00828	-.00828
2072.0							.01115	.01115
2074.0							.01740	.01740
2076.0							.01123	.01123
2078.0							-.04208	-.04208
2080.0							.01806	.01806

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							.00694	.00694
2084.0							.03882	.03882
2086.0							-.02805	-.02805
2088.0							.00477	.00477
2090.0							-.01758	-.01758
2092.0							-.00592	-.00592
2094.0							.07694	.07694
2096.0							-.05302	-.05302
2098.0							-.00249	-.00249
2100.0							.02168	.02168
2102.0							.03595	.03595
2104.0							-.01376	-.01376
2106.0							-.03390	-.03390
2108.0							-.01928	-.01928
2110.0							.02539	.02539
2112.0							-.04865	-.04865
2114.0							.08259	.08259
2116.0							-.02871	-.02871
2118.0							-.00789	-.00789
2120.0							-.00650	-.00650
2122.0							.01836	.01836
2124.0							-.05814	-.05814
2126.0							.02157	.02157
2128.0							-.00659	-.00659
2130.0							-.00496	-.00496

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
2132.0							-.01901	-.01901
2134.0							.02835	.02835
2136.0							.04482	.04482
2138.0							-.01792	-.01792
2140.0							.02261	.02261
2142.0							-.01743	-.01743
2144.0							-.01355	-.01355
2146.0							-.05778	-.05778
2148.0							.03836	.03836
2150.0							.01256	.01256
2152.0							-.00681	-.00681
2154.0							-.01375	-.01375
2156.0							-.01385	-.01385
2158.0							.00888	.00888
2160.0							.03187	.03187
2162.0							.00813	.00813
2164.0							-.02793	-.02793
2166.0							.02099	.02099
2168.0							-.00445	-.00445
2170.0							-.00576	-.00576
2172.0							.00512	.00512
2174.0							.03021	.03021
2176.0							-.03044	-.03044
2178.0							-.00955	-.00955

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							-.03819	-.03819
2182.0							.07020	.07020
2184.0							-.04012	-.04012
2186.0							-.01258	-.01258
2188.0							.01571	.01571
2190.0							.02131	.02131
2192.0							-.05686	-.05686
2194.0							.07714	.07714
2196.0							.00819	.00819
2198.0							-.04433	-.04433
2200.0							-.04045	-.04045
2202.0							.00072	.00072
2204.0							.02755	.02755
2206.0							.00135	.00135
2208.0							-.02049	-.02049
2210.0							-.02530	-.02530
2212.0							.05261	.05261
2214.0							-.00462	-.00462
2216.0							.01977	.01977
2218.0							-.02808	-.02808
2220.0							.03254	.03254
2222.0							-.02094	-.02094
2224.0							-.03457	-.03457
2226.0							.02371	.02371
2228.0							-.01217	-.01217

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
2230.0							-.00491	-.00491
2232.0							-.00548	-.00548
2234.0							.02473	.02473
2236.0							-.01052	-.01052
2238.0							-.01142	-.01142
2240.0							.04383	.04383
2242.0							-.01383	-.01383
2244.0							-.03004	-.03004
2246.0							.04644	.04644
2248.0							-.03880	-.03880

?C

PE604140

This is an enclosure indicator page.
The enclosure PE604140 is enclosed within the container PE904284 at this location in this document.

The enclosure PE604140 has the following characteristics:

ITEM_BARCODE	= PE604140
CONTAINER_BARCODE	= PE904284
NAME	= Drift Corrected Sonic
BASIN	= GIPPSLAND
PERMIT	= VIC/P19
TYPE	= WELL
SUBTYPE	= WELL_LOG
DESCRIPTION	= Admiral-1 Drift Corrected Sonic. From Sonic Calibration and Geogram Processing Report (Appendix 3 of WCR volume1)
REMARKS	=
DATE_CREATED	= 02/01/1990
DATE_RECEIVED	= 07/03/1990
W_NO	= W1016
WELL_NAME	= Admiral-1
CONTRACTOR	= Schlumberger
CLIENT_OP_CO	= Esso Australia Ltd.

(Inserted by DNRE - Vic Govt Mines Dept)

PE604141

This is an enclosure indicator page.
The enclosure PE604141 is enclosed within the container PE904284 at this location in this document.

The enclosure PE604141 has the following characteristics:

ITEM_BARCODE	= PE604141
CONTAINER_BARCODE	= PE904284
NAME	= Seismic Calibration Log
BASIN	= GIPPSLAND
PERMIT	= VIC/P19
TYPE	= WELL
SUBTYPE	= VELOCITY_CHART
DESCRIPTION	= Admiral-1 Seismic Calibration Log (Adjusted Continuous Velocity). From Sonic Calibration and Geogram Processing Report (Appendix 3 of WCR volume1)
REMARKS	=
DATE_CREATED	= 02/01/1990
DATE_RECEIVED	= 07/03/1990
W_NO	= W1016
WELL_NAME	= Admiral-1
CONTRACTOR	= Schlumberger
CLIENT_OP_CO	= Esso Australia Ltd.

(Inserted by DNRE - Vic Govt Mines Dept)

PE604142

This is an enclosure indicator page.
The enclosure PE604142 is enclosed within the container PE904284 at this location in this document.

The enclosure PE604142 has the following characteristics:

ITEM_BARCODE	= PE604142
CONTAINER_BARCODE	= PE904284
NAME	= Geogram (Synthetic Seismogram)
BASIN	= GIPPSLAND
PERMIT	= VIC/P19
TYPE	= WELL
SUBTYPE	= SYNTH_SEISMOGRAPH
DESCRIPTION	= Admiral-1Geogram (Synthetic Seismogram) 25 Hertz, Zero Phase Ricker Wavelet. From Sonic Calibration and Geogram Processing Report (Appendix 3 of WCR volume1)
REMARKS	=
DATE_CREATED	= 02/01/1990
DATE_RECEIVED	= 07/03/1990
W_NO	= W1016
WELL_NAME	= Admiral-1
CONTRACTOR	= Schlumberger
CLIENT_OP_CO	= Esso Australia Ltd.

(Inserted by DNRE - Vic Govt Mines Dept)

PE604143

This is an enclosure indicator page.
The enclosure PE604143 is enclosed within the container PE904284 at this location in this document.

The enclosure PE604143 has the following characteristics:

ITEM_BARCODE	= PE604143
CONTAINER_BARCODE	= PE904284
NAME	= Geogram (Synthetic Seismogram)
BASIN	= GIPPSLAND
PERMIT	= VIC/P19
TYPE	= WELL
SUBTYPE	= SYNTH_SEISMOGRAPH
DESCRIPTION	= Admiral-1Geogram (Synthetic Seismogram) 35 Hertz, Zero Phase Ricker Wavelet. From Sonic Calibration and Geogram Processing Report (Appendix 3 of WCR volume1)
REMARKS	=
DATE_CREATED	= 02/01/1990
DATE_RECEIVED	= 07/03/1990
W_NO	= W1016
WELL_NAME	= Admiral-1
CONTRACTOR	= Schlumberger
CLIENT_OP_CO	= Esso Australia Ltd.

(Inserted by DNRE - Vic Govt Mines Dept)

PE604144

This is an enclosure indicator page.
The enclosure PE604144 is enclosed within the container PE904284 at this location in this document.

The enclosure PE604144 has the following characteristics:

ITEM_BARCODE	PE604144
CONTAINER_BARCODE	PE904284
NAME	Geogram (Synthetic Seismogram)
BASIN	GIPPSLAND
PERMIT	VIC/P19
TYPE	WELL
SUBTYPE	SYNTH_SEISMOGRAPH
DESCRIPTION	Admiral-1Geogram (Synthetic Seismogram) 45 Hertz, Zero Phase Ricker Wavelet. From Sonic Calibration and Geogram Processing Report (Appendix 3 of WCR volume1)
REMARKS	
DATE_CREATED	02/01/1990
DATE_RECEIVED	07/03/1990
W_NO	W1016
WELL_NAME	Admiral-1
CONTRACTOR	Schlumberger
CLIENT_OP_CO	Esso Australia Ltd.

(Inserted by DNRE - Vic Govt Mines Dept)

PE604145

This is an enclosure indicator page.
The enclosure PE604145 is enclosed within the container PE904284 at this location in this document.

The enclosure PE604145 has the following characteristics:

ITEM_BARCODE	= PE604145
CONTAINER_BARCODE	= PE904284
NAME	= Geogram (Synthetic Seismogram)
BASIN	= GIPPSLAND
PERMIT	= VIC/P19
TYPE	= WELL
SUBTYPE	= SYNTH_SEISMOGRAPH
DESCRIPTION	= Admiral-1Geogram (Synthetic Seismogram) 35 Hertz, Minimum Phase Ricker Wavelet. From Sonic Calibration and Geogram Processing Report (Appendix 3 of WCR volume1)
REMARKS	=
DATE_CREATED	= 02/01/1990
DATE_RECEIVED	= 07/03/1990
W_NO	= W1016
WELL_NAME	= Admiral-1
CONTRACTOR	= Schlumberger
CLIENT_OP_CO	= Esso Australia Ltd.

(Inserted by DNRE - Vic Govt Mines Dept)