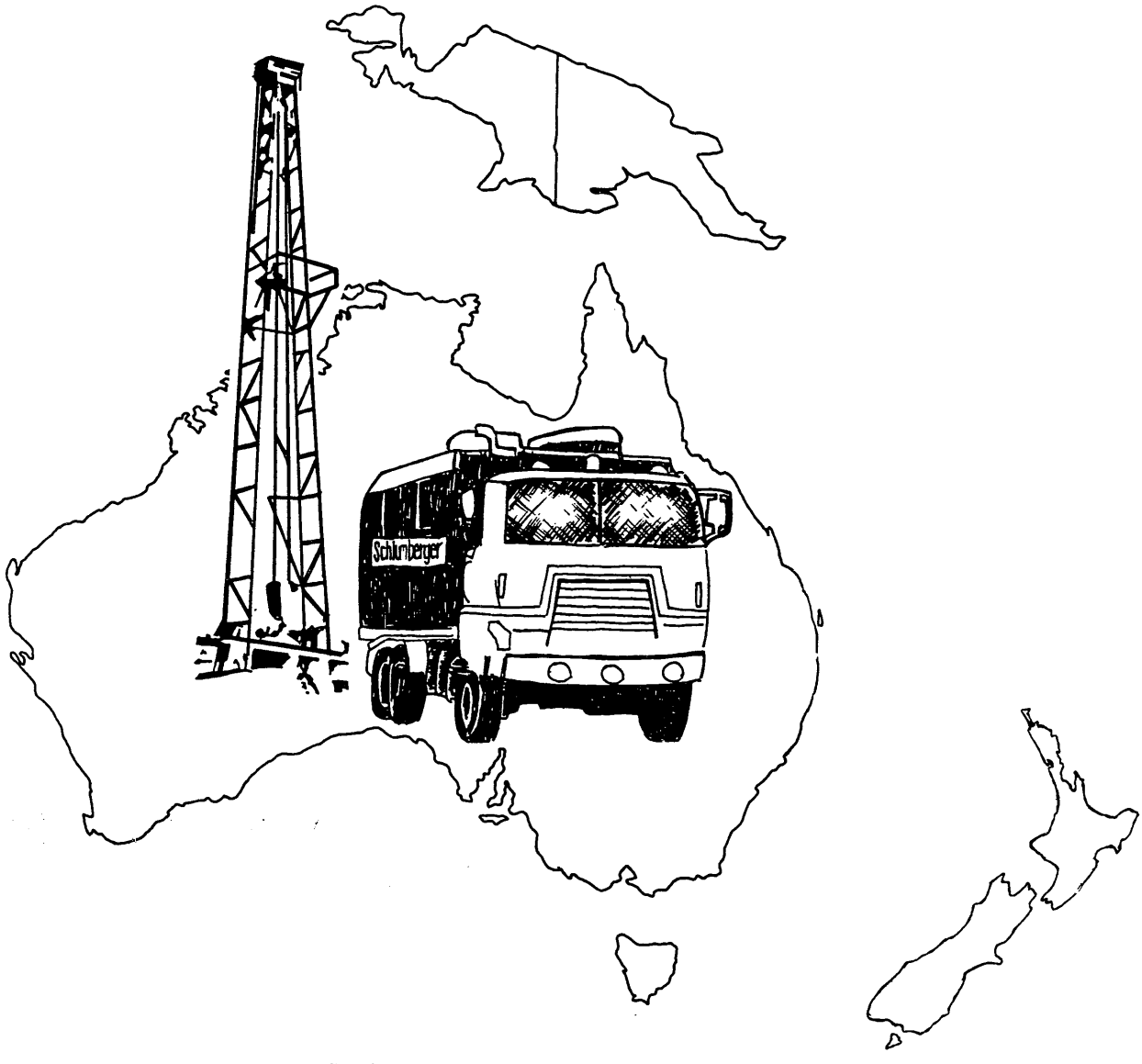
Attachment to WCR
Sonic Calibration & Geogram Processing Report

Sweetlips-1
(W1003)

[redacted]



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ESSO AUSTRALIA LTD.

SONIC CALIBRATION AND GEOGRAM PROCESSING REPORT

SWEETLIPS #1

FIELD	:	WILDCAT
STATE	:	VICTORIA
COUNTRY	:	AUSTRALIA
COORDINATES	:	038° 05' 47.30" S 148° 02' 08.66" E
LOCATION	:	GIPPSLAND BASIN VICL10
DATE OF SURVEY	:	10-AUG-1989
REFERENCE NO.	:	SYJ-56472
INTERVAL	:	1850.0 - 800.0 M

Contents

List of Tables

1. Introduction

A checkshot survey of the Sweetlips #1 well has been used to calibrate the sonic log and generate a synthetic seismogram using 25,35 and 45 hertz zero phase Ricker wavelets. The final presentation includes a synthetic seismogram at 10 cm/sec as well as a drift corrected sonic plot and a seismic calibration log.

2. Data Acquisition

The data was acquired with the WST (Well seismic tool) tool. 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	52 metres below MSL
Total Depth	1850.0 metres below KB
Energy Source	Airgun
Source Offset	45 metres
Source Depth	3.0 metres below MSL
Source Azimuth	0 deg
Hydrophone Offset	45 metres
Hydrophone Depth	1.5 metres below MSL
Hydrophone Azimuth	0 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/ft.

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

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

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

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

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

3.2 Correction to Datum

The corrected sonic log is indexed to true vertical depth and referenced to mean sea level (SRD).

3.3 Open Hole Logs

The sonic log has been recorded from 1850.0 to 800.0 metres below KB. The overall log quality is good with small zones of cycle skipping having been patched out.The density log was recorded over the same interval.

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

3.4 Sonic Calibration Results

The top of the sonic log (800.0 metres below KB) is chosen as the origin for the calibration drift curve. The drift curve indicates a number of corrections to be made to the sonic log. The adjusted sonic curve is considered to be the best result using the available data. A list of shifts used on the sonic data is given in the geophysical listings section.

4. Synthetic Seismogram Processing

GEOGRAM plots were generated using 25,35 and 45 hertz zero phase Ricker wavelet

.

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 meters from kelly bushing .

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

4. 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.

5. Vertical travel time SRC to GEO : *timv*, is corrected for source to hydrophone distance and for source offset.

6. Vertical travel time SRD to GEO : *shtm*, is *timv* corrected for the vertical distance between source and datum.

7. Average velocity SRD to GEO : the average seismic velocity from datum to the corresponding checkshot level, $\frac{dsrd}{shtm}$.

8. Delta depth between shots : $\Delta depth$, the vertical distance between each level.

9. Delta time between shots : $\Delta time$, the difference in vertical travel time (*shtm*) between each level.

10. Interval velocity between shots : the average seismic velocity between each level, $\frac{\Delta depth}{\Delta time}$.

A2 Drift Computation Report

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

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

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

4. Vertical travel time SRD to GEO : the calculated vertical travel time from datum to downhole geophone (see column 7, Geophysical Airgun Report).

5. 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.

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

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

A3 Sonic Adjustment Parameter Report

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

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

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

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

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

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

7. Reduction factor : see section 4 of report.

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

A4 Velocity Report

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

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

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

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

5. 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.)

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

7. 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.

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

A5 Time Converted Velocity Report

The data in this listing has been resampled in time.

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

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

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

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

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

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

where v_i is the velocity between each 2 millisecs interval.

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

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

where:

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

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

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

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

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)

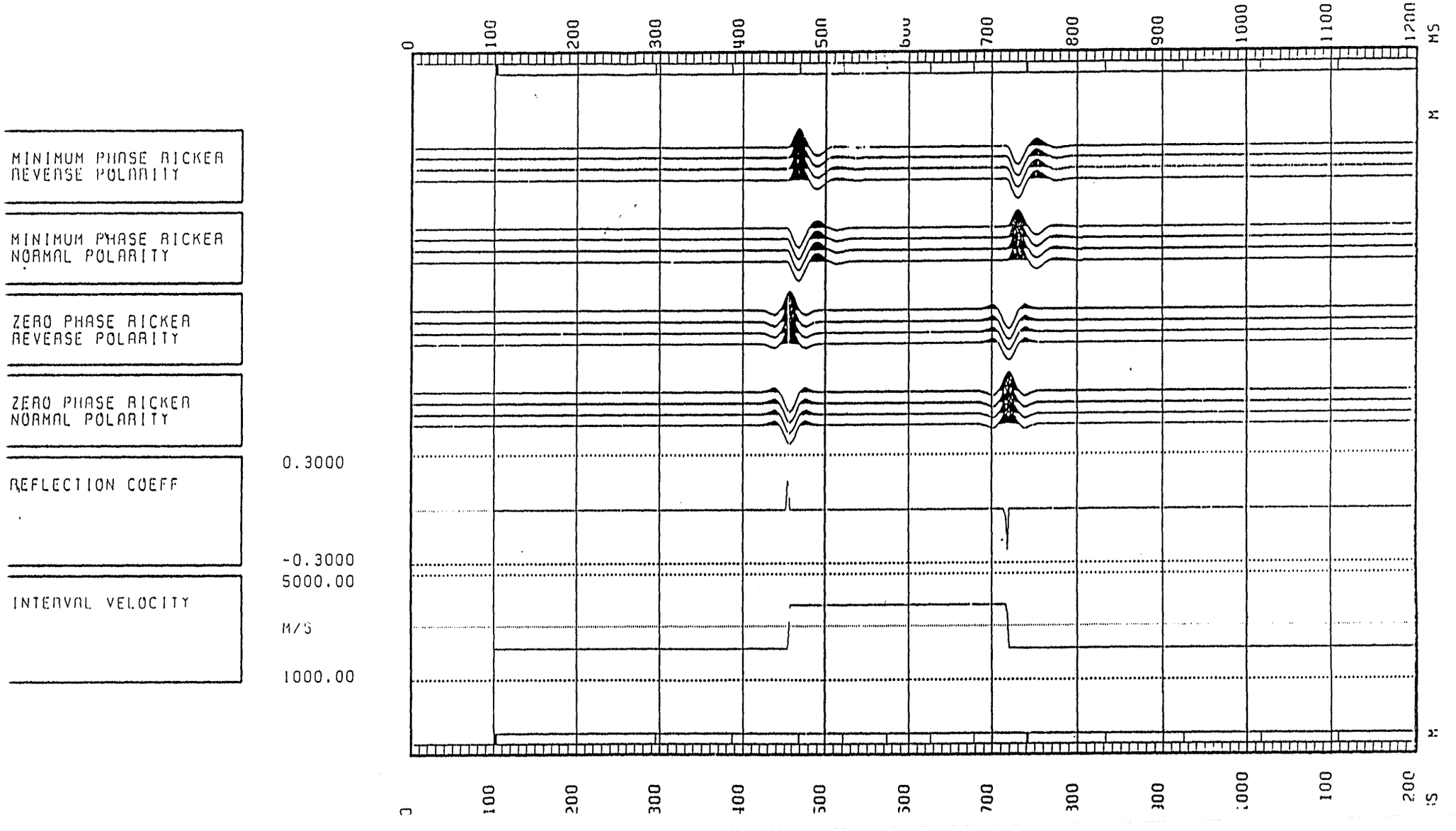
LIST OF ENCLOSURES

Drift Corrected Sonic
Seismic Calibration Log
25 hz zero phase Geogram 10 cm/sec
35 hz zero phase Geogram 10 cm/sec
45 hz zero phase Geogram 10 cm/sec

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

SCHLUMBERGER (SEG-1976) WAVELET POLARITY CONVENTION

Figure 1

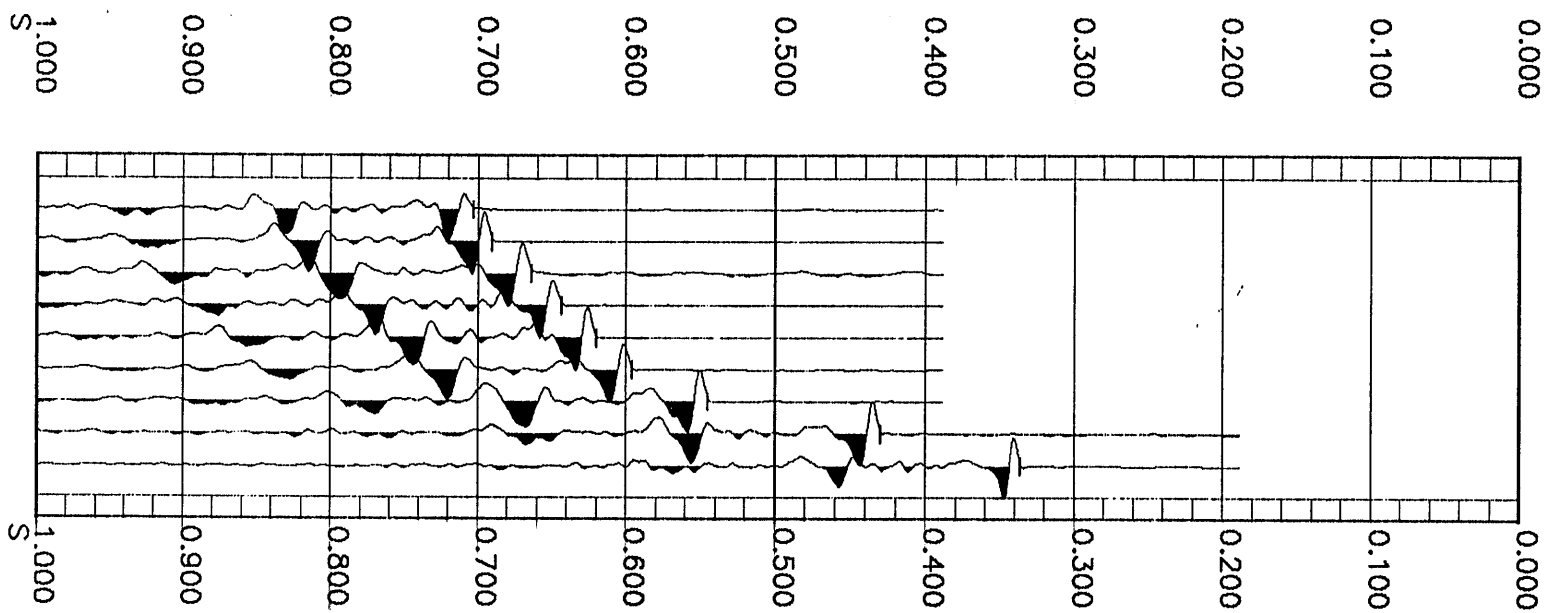


CLIENT = ESSO AUSTRALIA LTD.

FIELD = WILDCAT

WELL = SWEETLIPS 1

Figure 2



LEVEL NO	TRANSIT TIME	RAW DEPTH
	S	M
1	0.703	1850.0
2	0.690	1813.0
3	0.664	1725.0
4	0.643	1655.0
5	0.620	1584.0
6	0.596	1510.0
7	0.545	1370.0
8	0.430	1050.0
9	0.336	800.0

SHOTS

ANALYST: Z.KATELIS 14-SEP-89 10:29:58 PROGRAM: GSHOT 007.E08

SCHLUMBERGER

GEOPHYSICAL AIRGUN REPORT

COMPANY : ESSO AUSTRALIA LTD.
WELL : SWEETLIPS #1
FIELD : WILDCAT
COUNTRY : AUSTRALIA
REFERENCE: SYJ-56472

ANALYST: Z.KATELIS 14-SEP-89 10:29:58 PROGRAM: GSHOT 007.E08

GEOPHYSICAL AIRGUN REPORT

COMPANY : ESSO AUSTRALIA LTD.
WELL : SWEETLIPS #1
FIELD : WILDCAT
COUNTRY : AUSTRALIA
REFERENCE: SYJ-56472

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	
ELEV OF GL AB. SRD(WST)	GL	-52.0000	M
VEL SOURCE-HYDRO(WST)	VELHYD	1500.00	M/S
VEL SOURCE-SRD (WST)	VELSUR	1500.00	M/S

(MATRIX PARAMETERS)

	SOURCE ELV M	SOURCE EW M	SOURCE NS M	HYDRO ELEV M	HYDRO EW M	HYDRO NS M
1	-3.00	0	45.00	-1.50	0	45.00

	TRT HYD-SC MS	TRT SC-SRD MS
1	1.00	2.00

	MD @ KB M	VD @ KB M	VD @ SRD M	E-W COORD M	N-S COORD M
1	73.00	73.00	52.00	0	0
2	800.00	800.00	779.00	0	0
3	1050.00	1050.00	1029.00	0	0
4	1370.00	1370.00	1349.00	0	0
5	1510.00	1510.00	1489.00	0	0
6	1584.00	1584.00	1563.00	0	0
7	1655.00	1655.00	1634.00	0	0
8	1725.00	1725.00	1704.00	0	0
9	1813.00	1813.00	1792.00	0	0
10	1850.00	1850.00	1829.00	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	73.00	52.00	0	43.82	33.01	35.01	1485			
								727.00	303.36	2396
2	800.00	779.00	727.00	335.94	336.37	338.37	2302			
								250.00	94.46	2647
3	1050.00	1029.00	977.00	430.25	430.84	432.84	2377			
								320.00	114.86	2786
4	1370.00	1349.00	1297.00	545.00	545.70	547.70	2463			
								140.00	50.81	2755
5	1510.00	1489.00	1437.00	595.78	596.51	598.51	2488			
								74.00	24.48	3023
6	1584.00	1563.00	1511.00	620.24	620.98	622.98	2509			
								71.00	23.19	3061
7	1655.00	1634.00	1582.00	643.42	644.17	646.17	2529			
								70.00	20.28	3451
8	1725.00	1704.00	1652.00	663.69	664.46	666.46	2557			
								88.00	26.61	3307
9	1813.00	1792.00	1740.00	690.29	691.07	693.07	2586			
								37.00	13.08	2828
10	1850.00	1829.00	1777.00	703.37	704.16	706.16	2590			

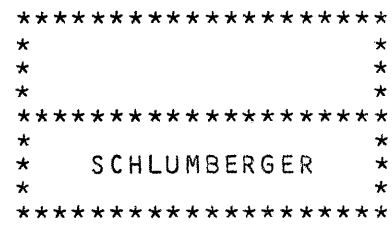
DRIFT

ANALYST: Z.KATELIS 14-SEP-89 10:32:01 PROGRAM: GDRIFT 007.E09

DRIFT COMPUTATION REPORT

COMPANY : ESSO AUSTRALIA LTD.
WELL : SWEETLIPS #1
FIELD : WILDCAT
COUNTRY : AUSTRALIA
REFERENCE: SYJ-56472

ANALYST: Z.KATELIS 14-SEP-89 10:32:01 PROGRAM: GDRIFT 007.E09



DRIFT COMPUTATION REPORT

COMPANY : ESSO AUSTRALIA LTD.
WELL : SWEETLIPS #1
FIELD : WILDCAT
COUNTRY : AUSTRALIA
REFERENCE: SYJ-56472

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	-52.0000	M
TOP OF ZONE PROCD (WST)	XSTART	0	M
BOT OF ZONE PROCD (WST)	XSTOP	0	M
RAW SONIC CH NAME (WST)	GAD001	DT.ATT.002.FLP.*	
UNIFORM DENSITY VALUE	UNFDEN	2.30000	G/C3

(ZONED PARAMETERS)		(VALUE)		(LIMITS)		
LAYER OPTION FLAG DENS	LOFDEN	1.000000		30479.7	-	0
USER SUPPLIED DENSITY DA	LAYDEN	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
							0
1	73.00	52.00	0	35.01	35.01	0	0
2	800.00	779.00	727.00	338.37	338.37	0	14.63
3	1050.00	1029.00	977.00	432.84	429.18	3.66	17.57
4	1370.00	1349.00	1297.00	547.70	538.41	9.28	15.33
5	1510.00	1489.00	1437.00	598.51	587.08	11.43	-.21
6	1584.00	1563.00	1511.00	622.98	611.57	11.41	8.66
7	1655.00	1634.00	1582.00	646.17	634.15	12.03	-12.74
8	1725.00	1704.00	1652.00	666.46	655.32	11.14	9.00
9	1813.00	1792.00	1740.00	693.07	681.14	11.93	41.21
10	1850.00	1829.00	1777.00	706.16	692.70	13.45	

TIME / DEPTH

ANALYST: Z.KATELIS 14-SEP-89 11:31:26 PROGRAM: GADJST 008.E08

SCHLUMBERGER

SONIC ADJUSTMENT PARAMETER REPORT

COMPANY : ESSO AUSTRALIA LTD.
WELL : SWEETLIPS #1
FIELD : WILDCAT
COUNTRY : AUSTRALIA
REFERENCE: SYJ-56472

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 GRCUND 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	: 1485.00	M/S

(ZONED PARAMETERS)		(VALUE)		(LIMITS)
USER DRIFT ZONE (WST)	ZDRIFT	: 12.00000	MS	1850.00 - 1655.00
		12.00000		1655.00 1510.00
		11.40000		1510.00 1370.00
		9.300000		1370.00 1050.00
		3.700000		1050.00 800.000
		0		800.000 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	: 2396.000	M/S	800.000 - 73.0000
		1485.000		73.0000 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	800.00	779.00	727.00	0	14.80			14.80
3	1050.00	1029.00	977.00	3.70	17.50			17.50
4	1370.00	1349.00	1297.00	9.30	15.00			15.00
5	1510.00	1489.00	1437.00	11.40	4.14			4.14
6	1655.00	1634.00	1582.00	12.00	0			0
7	1850.00	1829.00	1777.00	12.00				

ANALYST: Z.KATELIS 14-SEP-89 11:31:42 PROGRAM: GADJST 008.E08

VELOCITY REPORT

COMPANY : ESSO AUSTRALIA LTD.
WELL : SWEETLIPS #1
FIELD : WILDCAT
COUNTRY : AUSTRALIA
REFERENCE: SYJ-56472

ANALYST: Z.KATELIS 14-SEP-89 11:31:42 PROGRAM: GADJST 008.E08

VELOCITY REPORT

COMPANY : ESSO AUSTRALIA LTD.
WELL : SWEETLIPS #1
FIELD : WILDCAT
COUNTRY : AUSTRALIA
REFERENCE: SYJ-56472

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

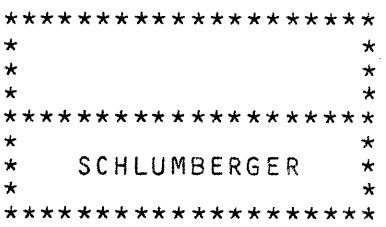
SHOT - SHOT NUMBER
DKB - MEASURED DEPTH FROM KELLY-BUSHING
DSRD - DEPTH FROM SRD
DGL - VERTICAL DEPTH RELATIVE TO GROUND LEVEL (USER'S REFERENCE)
SHTM - SHOT TIME (WST)
ADJS - ADJUSTED SONIC TRAVEL TIME
SHDR - DRIFT AT SHOT OR KNEE
REST - RESIDUAL TRAVEL TIME AT KNEE
INTV - INTERNAL VELOCITY, AVERAGE

(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	-52.0000	M
UNIFORM EARTH VELOCITY	UNERTH	1485.00	M/S

(ZONED PARAMETERS)		(VALUE)		(LIMITS)	
LAYER OPTION FLAG VELOC	LOFVEL	1.000000		30479.7	- 0
USER VELOC (WST)	LAYVEL	2396.000	M/S	800.000	- 73.0000
		1485.000		73.0000	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
								1485
1	73.00	52.00	0	35.01	35.01	0	0	
								2396
2	800.00	779.00	727.00	338.37	338.37	0	0	
								2646
3	1050.00	1029.00	977.00	432.84	432.87	3.66	-.04	
								2787
4	1370.00	1349.00	1297.00	547.70	547.71	9.28	-.01	
								2758
5	1510.00	1489.00	1437.00	598.51	598.47	11.43	.04	
								2984
6	1584.00	1563.00	1511.00	622.98	623.27	11.41	-.29	
								3104
7	1655.00	1634.00	1582.00	646.17	646.14	12.03	.04	
								3306
8	1725.00	1704.00	1652.00	666.46	667.31	11.14	-.86	
								3408
9	1813.00	1792.00	1740.00	693.07	693.14	11.93	-.06	
								3203
10	1850.00	1829.00	1777.00	706.16	704.69	13.45	1.47	

ANALYST: Z.KATELIS 14-SEP-89 11:36:28 PROGRAM: GTRFRM 001.E12



TIME CONVERTED VELOCITY REPORT

COMPANY : ESSO AUSTRALIA LTD.
WELL : SWEETLIPS #1
FIELD : WILDCAT
COUNTRY : AUSTRALIA
REFERENCE: SYJ-56472

ANALYST: Z.KATELIS 14-SEP-89 11:36:28 PROGRAM: GTRFRM 001.E12

TIME CONVERTED VELOCITY REPORT

COMPANY : ESSO AUSTRALIA LTD.
WELL : SWEETLIPS #1
FIELD : WILDCAT
COUNTRY : AUSTRALIA
REFERENCE: SYJ-56472

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	-52.0000	M
UNIFORM EARTH VELOCITY	UNERTH	1485.00	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	:	2396.000	M/S	800.000	-	73.0000
			1485.000		73.0000		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
								1485
0	21.00	0						1485
2.00	22.49	1.49	1485	1485	671.40	1008.10	1344.80	1485
4.00	23.97	2.97	1485	1485	669.41	1006.11	1342.81	1485
6.00	25.46	4.46	1485	1485	667.43	1004.12	1340.81	1485
8.00	26.94	5.94	1485	1485	665.45	1002.13	1338.83	1485
10.00	28.43	7.42	1485	1485	663.47	1000.15	1336.84	1485
12.00	29.91	8.91	1485	1485	661.51	998.17	1334.85	1485
14.00	31.40	10.40	1485	1485	659.55	996.20	1332.87	1485
16.00	32.88	11.88	1485	1485	657.59	994.23	1330.90	1485
18.00	34.37	13.37	1485	1485	655.64	992.26	1328.92	1485
20.00	35.85	14.85	1485	1485	653.70	990.30	1326.95	1485
22.00	37.34	16.34	1485	1485	651.76	988.34	1324.98	1485
24.00	38.82	17.82	1485	1485	649.83	986.39	1323.02	1485
26.00	40.31	19.31	1485	1485	647.90	984.44	1321.05	1485
28.00	41.79	20.79	1485	1485	645.98	982.49	1319.09	1485
30.00	43.28	22.28	1485	1485	644.07	980.55	1317.14	1485
32.00	44.76	23.76	1485	1485	642.16	978.61	1315.18	1485
34.00	46.25	25.25	1485	1485	640.26	976.67	1313.23	1485
36.00	47.73	26.73	1485	1485	638.36	974.74	1311.28	1485
38.00	49.22	28.21	1485	1485	636.47	972.82	1309.34	1485
40.00	50.70	29.70	1485	1485	634.59	970.89	1307.40	1485
42.00	52.19	31.19	1485	1485	632.71	968.97	1305.46	1485
44.00	53.67	32.67	1485	1485	630.84	967.06	1303.52	1485
46.00	55.16	34.16	1485	1485	628.97	965.15	1301.59	

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
								1485
48.00	56.64	35.64	1485	1485	627.11	963.24	1299.66	1485
50.00	58.13	37.13	1485	1485	625.25	961.34	1297.73	1485
52.00	59.61	38.61	1485	1485	623.41	959.44	1295.80	1485
54.00	61.10	40.10	1485	1485	621.56	957.54	1293.88	1485
56.00	62.58	41.58	1485	1485	619.73	955.65	1291.97	1485
58.00	64.07	43.07	1485	1485	617.89	953.76	1290.05	1485
60.00	65.55	44.55	1485	1485	616.07	951.88	1288.14	1485
62.00	67.04	46.04	1485	1485	614.25	950.00	1286.23	1485
64.00	68.52	47.52	1485	1485	612.44	948.13	1284.32	1485
66.00	70.01	49.01	1485	1485	610.63	946.25	1282.42	1485
68.00	71.49	50.49	1485	1485	608.83	944.39	1280.52	1489
70.00	72.98	51.98	1485	1485	606.98	942.45	1278.51	2396
72.00	75.38	54.38	1510	1518	590.75	918.87	1247.63	2396
74.00	77.77	56.77	1534	1548	576.16	897.72	1219.98	2396
76.00	80.17	59.17	1557	1576	562.92	878.60	1195.04	2396
78.00	82.56	61.56	1579	1603	550.84	861.21	1172.39	2396
80.00	84.96	63.96	1599	1627	539.74	845.30	1151.71	2396
82.00	87.36	66.36	1618	1650	529.50	830.66	1132.73	2396
84.00	89.75	68.75	1637	1672	520.00	817.12	1115.21	2396
86.00	92.15	71.15	1655	1692	511.16	804.56	1098.98	2396
88.00	94.55	73.55	1672	1711	502.88	792.84	1083.89	2396
90.00	96.94	75.94	1688	1730	495.12	781.89	1069.80	2396
92.00	99.34	78.34	1703	1747	487.80	771.60	1056.61	2396
94.00	101.74	80.74	1718	1763	480.90	761.92	1044.21	

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
								2396
96.00	104.13	83.13	1732	1779	474.36	752.78	1032.53	2396
98.00	106.53	85.53	1746	1793	468.15	744.12	1021.50	2396
100.00	108.93	87.93	1759	1807	462.24	735.91	1011.05	2396
102.00	111.32	90.32	1771	1821	456.60	728.10	1001.14	2396
104.00	113.72	92.72	1783	1834	451.21	720.65	991.70	2396
106.00	116.12	95.12	1795	1846	446.04	713.54	982.71	2396
108.00	118.51	97.51	1806	1857	441.09	706.74	974.13	2396
110.00	120.91	99.91	1817	1869	436.33	700.21	965.92	2396
112.00	123.30	102.30	1827	1879	431.75	693.95	958.05	2396
114.00	125.70	104.70	1837	1890	427.33	687.93	950.50	2396
116.00	128.10	107.10	1847	1900	423.06	682.13	943.24	2396
118.00	130.49	109.49	1856	1909	418.94	676.54	936.26	2396
120.00	132.89	111.89	1865	1918	414.95	671.13	929.52	2396
122.00	135.29	114.29	1874	1927	411.09	665.91	923.03	2396
124.00	137.68	116.68	1882	1935	407.34	660.86	916.75	2396
126.00	140.08	119.08	1890	1944	403.70	655.96	910.68	2396
128.00	142.48	121.48	1898	1952	400.16	651.21	904.80	2396
130.00	144.87	123.87	1906	1959	396.72	646.60	899.10	2396
132.00	147.27	126.27	1913	1966	393.37	642.12	893.57	2396
134.00	149.67	128.67	1920	1974	390.11	637.75	888.20	2396
136.00	152.06	131.06	1927	1980	386.92	633.51	882.98	2396
138.00	154.46	133.46	1934	1987	383.82	629.37	877.90	2396
140.00	156.86	135.86	1941	1994	380.78	625.33	872.95	2396
142.00	159.25	138.25	1947	2000	377.82	621.40	868.13	

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
								2396
144.00	161.65	140.65	1953	2006	374.92	617.55	863.43	2396
146.00	164.04	143.04	1960	2012	372.09	613.79	858.34	2396
148.00	166.44	145.44	1965	2017	369.31	610.12	854.36	2396
150.00	168.84	147.84	1971	2023	366.59	606.52	849.98	2396
152.00	171.23	150.23	1977	2028	363.93	603.00	845.70	2396
154.00	173.63	152.63	1982	2033	361.31	599.55	841.51	2396
156.00	176.03	155.03	1988	2039	358.75	596.17	837.41	2396
158.00	178.42	157.42	1993	2043	356.24	592.85	833.39	2396
160.00	180.82	159.82	1998	2048	353.77	589.60	829.46	2396
162.00	183.22	162.22	2003	2053	351.34	586.41	825.60	2396
164.00	185.61	164.61	2007	2057	348.96	583.27	821.81	2396
166.00	188.01	167.01	2012	2062	346.62	580.19	818.09	2396
168.00	190.41	169.41	2017	2066	344.31	577.16	814.44	2396
170.00	192.80	171.80	2021	2070	342.05	574.19	810.86	2396
172.00	195.20	174.20	2026	2074	339.82	571.26	807.33	2396
174.00	197.60	176.60	2030	2078	337.63	568.37	803.86	2396
176.00	199.99	178.99	2034	2082	335.47	565.54	800.46	2396
178.00	202.39	181.39	2038	2086	333.34	562.74	797.10	2396
180.00	204.78	183.78	2042	2090	331.25	559.99	793.80	2396
182.00	207.18	186.18	2046	2093	329.18	557.28	790.55	2396
184.00	209.58	188.58	2050	2097	327.15	554.61	787.35	2396
186.00	211.97	190.97	2053	2100	325.14	551.97	784.19	2396
188.00	214.37	193.37	2057	2104	323.16	549.37	781.08	2396
190.00	216.77	195.77	2061	2107	321.21	546.81	778.01	

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
								2396
192.00	219.16	198.16	2064	2110	319.29	544.28	774.99	2396
194.00	221.56	200.56	2068	2113	317.39	541.78	772.00	2396
196.00	223.96	202.96	2071	2117	315.51	539.31	769.06	2396
198.00	226.35	205.35	2074	2120	313.67	536.88	766.15	2396
200.00	228.75	207.75	2077	2122	311.84	534.47	763.28	2396
202.00	231.15	210.15	2081	2125	310.04	532.10	760.45	2396
204.00	233.54	212.54	2084	2128	308.26	529.75	757.65	2396
206.00	235.94	214.94	2087	2131	306.50	527.43	754.89	2396
208.00	238.34	217.34	2090	2134	304.76	525.14	752.15	2396
210.00	240.73	219.73	2093	2136	303.04	522.87	749.45	2396
212.00	243.13	222.13	2096	2139	301.34	520.63	746.78	2396
214.00	245.52	224.52	2098	2141	299.67	518.41	744.14	2396
216.00	247.92	226.92	2101	2144	298.01	516.22	741.53	2396
218.00	250.32	229.32	2104	2146	296.37	514.05	738.94	2396
220.00	252.71	231.71	2106	2149	294.75	511.90	736.39	2396
222.00	255.11	234.11	2109	2151	293.15	509.78	733.86	2396
224.00	257.51	236.51	2112	2154	291.56	507.67	731.35	2396
226.00	259.90	238.90	2114	2156	290.00	505.59	728.87	2396
228.00	262.30	241.30	2117	2158	288.45	503.53	726.42	2396
230.00	264.70	243.70	2119	2160	286.91	501.48	723.99	2396
232.00	267.09	246.09	2121	2162	285.39	499.46	721.58	2396
234.00	269.49	248.49	2124	2164	283.89	497.46	719.19	2396
236.00	271.89	250.89	2126	2167	282.40	495.47	716.83	2396
238.00	274.28	253.28	2128	2169	280.93	493.51	714.49	

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
								2396
240.00	276.68	255.68	2131	2171	279.48	491.56	712.17	2396
242.00	279.07	258.07	2133	2173	278.04	489.63	709.97	2396
244.00	281.47	260.47	2135	2174	276.61	487.71	707.59	2396
246.00	283.87	262.87	2137	2176	275.20	485.82	705.33	2396
248.00	286.26	265.26	2139	2178	273.80	483.94	703.09	2396
250.00	288.66	267.66	2141	2180	272.41	482.07	700.87	2396
252.00	291.06	270.06	2143	2182	271.04	480.22	698.67	2396
254.00	293.45	272.45	2145	2184	269.68	478.39	696.48	2396
256.00	295.85	274.85	2147	2185	268.33	476.57	694.32	2396
258.00	298.25	277.25	2149	2187	267.00	474.77	692.17	2396
260.00	300.64	279.64	2151	2189	265.68	472.98	690.03	2396
262.00	303.04	282.04	2153	2190	264.37	471.21	687.92	2396
264.00	305.44	284.44	2155	2192	263.08	469.45	685.82	2396
266.00	307.83	286.83	2157	2194	261.79	467.71	683.73	2396
268.00	310.23	289.23	2158	2195	260.52	465.97	681.66	2396
270.00	312.63	291.63	2160	2197	259.26	464.26	679.61	2396
272.00	315.02	294.02	2162	2198	258.01	462.55	677.57	2396
274.00	317.42	296.42	2164	2200	256.77	460.86	675.55	2396
276.00	319.81	298.81	2165	2201	255.54	459.18	673.54	2396
278.00	322.21	301.21	2167	2203	254.33	457.51	671.54	2396
280.00	324.61	303.61	2169	2204	253.12	455.86	669.56	2396
282.00	327.00	306.00	2170	2206	251.93	454.22	667.60	2396
284.00	329.40	308.40	2172	2207	250.74	452.59	665.64	2396
286.00	331.80	310.80	2173	2208	249.57	450.97	663.70	

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
								2396
288.00	334.19	313.19	2175	2210	248.40	449.36	661.78	
								2396
290.00	336.59	315.59	2176	2211	247.25	447.77	659.86	
								2396
292.00	338.99	317.99	2178	2212	246.10	446.18	657.96	
								2396
294.00	341.38	320.38	2179	2214	244.97	444.61	656.07	
								2396
296.00	343.78	322.78	2181	2215	243.84	443.05	654.19	
								2396
298.00	346.18	325.18	2182	2216	242.72	441.50	652.33	
								2396
300.00	348.57	327.57	2184	2218	241.62	439.96	650.47	
								2396
302.00	350.97	329.97	2185	2219	240.52	438.43	648.63	
								2396
304.00	353.37	332.37	2187	2220	239.43	436.91	646.80	
								2396
306.00	355.76	334.76	2188	2221	238.35	435.40	644.98	
								2396
308.00	358.16	337.16	2189	2222	237.28	433.90	643.17	
								2396
310.00	360.55	339.55	2191	2224	236.22	432.41	641.38	
								2397
312.00	362.95	341.95	2192	2225	235.17	430.93	639.59	
								2396
314.00	365.35	344.35	2193	2226	234.12	429.46	637.82	
								2396
316.00	367.74	346.74	2195	2227	233.08	428.00	636.05	
								2396
318.00	370.14	349.14	2196	2228	232.05	426.55	634.30	
								2396
320.00	372.54	351.54	2197	2229	231.03	425.11	632.55	
								2396
322.00	374.93	353.93	2198	2230	230.02	423.68	630.82	
								2396
324.00	377.33	356.33	2200	2231	229.02	422.25	629.09	
								2396
326.00	379.73	358.73	2201	2232	228.02	420.84	627.38	
								2396
328.00	382.12	361.12	2202	2233	227.03	419.43	625.67	
								2396
330.00	384.52	363.52	2203	2234	226.05	418.04	623.98	
								2396
332.00	386.92	365.92	2204	2235	225.08	416.65	622.29	
								2396
334.00	389.31	368.31	2205	2236	224.11	415.27	620.62	

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
								2396
336.00	391.71	370.71	2207	2237	223.15	413.90	618.95	2396
338.00	394.11	373.11	2208	2238	222.20	412.54	617.29	2396
340.00	396.50	375.50	2209	2239	221.26	411.18	615.64	2396
342.00	398.90	377.90	2210	2240	220.32	409.84	614.00	2396
344.00	401.29	380.29	2211	2241	219.39	408.50	612.37	2396
346.00	403.69	382.69	2212	2242	218.47	407.17	610.75	2396
348.00	406.09	385.09	2213	2243	217.56	405.85	609.13	2396
350.00	408.48	387.48	2214	2244	216.65	404.54	607.52	2396
352.00	410.88	389.88	2215	2245	215.74	403.23	605.93	2396
354.00	413.28	392.28	2216	2246	214.85	401.93	604.34	2396
356.00	415.67	394.67	2217	2247	213.96	400.64	602.76	2396
358.00	418.07	397.07	2218	2248	213.08	399.36	601.18	2396
360.00	420.47	399.47	2219	2248	212.20	398.08	599.62	2396
362.00	422.86	401.86	2220	2249	211.33	396.81	598.06	2396
364.00	425.26	404.26	2221	2250	210.47	395.55	596.51	2396
366.00	427.66	406.66	2222	2251	209.61	394.30	594.97	2396
368.00	430.05	409.05	2223	2252	208.76	393.05	593.43	2396
370.00	432.45	411.45	2224	2253	207.92	391.81	591.91	2396
372.00	434.85	413.85	2225	2253	207.08	390.58	590.39	2396
374.00	437.24	416.24	2226	2254	206.25	389.35	588.88	2396
376.00	439.64	418.64	2227	2255	205.42	388.13	587.37	2396
378.00	442.03	421.03	2228	2256	204.60	386.92	585.88	2397
380.00	444.43	423.43	2229	2256	203.79	385.72	584.39	2396
382.00	446.83	425.83	2229	2257	202.98	384.52	582.90	

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
								2396
384.00	449.22	428.22	2230	2258	202.18	383.33	581.43	2396
386.00	451.62	430.62	2231	2259	201.38	382.14	579.96	2396
388.00	454.02	433.02	2232	2259	200.59	380.96	578.50	2396
390.00	456.41	435.41	2233	2260	199.80	379.79	577.04	2396
392.00	458.81	437.81	2234	2261	199.02	378.62	575.59	2396
394.00	461.21	440.21	2235	2262	198.25	377.46	574.15	2396
396.00	463.60	442.60	2235	2262	197.48	376.31	572.72	2396
398.00	466.00	445.00	2236	2263	196.71	375.16	571.29	2396
400.00	468.40	447.40	2237	2264	195.95	374.02	569.87	2396
402.00	470.79	449.79	2238	2264	195.20	372.89	568.45	2396
404.00	473.19	452.19	2239	2265	194.45	371.76	567.04	2396
406.00	475.58	454.58	2239	2266	193.71	370.64	565.64	2396
408.00	477.98	456.98	2240	2266	192.97	369.52	564.25	2396
410.00	480.38	459.38	2241	2267	192.24	368.41	562.86	2396
412.00	482.77	461.77	2242	2268	191.51	367.30	561.47	2396
414.00	485.17	464.17	2242	2268	190.78	366.21	560.10	2396
416.00	487.57	466.57	2243	2269	190.06	365.11	558.72	2396
418.00	489.96	468.96	2244	2270	189.35	364.02	557.36	2396
420.00	492.36	471.36	2245	2270	188.64	362.94	556.00	2396
422.00	494.76	473.76	2245	2271	187.94	361.87	554.65	2396
424.00	497.15	476.15	2246	2271	187.24	360.80	553.30	2396
426.00	499.55	478.55	2247	2272	186.54	359.73	551.96	2396
428.00	501.95	480.95	2247	2273	185.85	358.67	550.62	2396
430.00	504.34	483.34	2248	2273	185.17	357.62	549.29	

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
432.00	506.74	485.74	2249	2274	184.48	356.57	547.97	2396
434.00	509.14	488.14	2249	2274	183.81	355.53	546.65	2396
436.00	511.53	490.53	2250	2275	183.14	354.49	545.34	2396
438.00	513.93	492.93	2251	2275	182.47	353.45	544.03	2396
440.00	516.32	495.32	2251	2276	181.80	352.43	542.73	2396
442.00	518.72	497.72	2252	2277	181.14	351.41	541.44	2396
444.00	521.12	500.12	2253	2277	180.49	350.39	540.15	2396
446.00	523.51	502.51	2253	2278	179.84	349.38	538.86	2396
448.00	525.91	504.91	2254	2278	179.19	348.37	537.58	2396
450.00	528.31	507.31	2255	2279	178.55	347.37	536.31	2396
452.00	530.70	509.70	2255	2279	177.91	346.37	535.04	2396
454.00	533.10	512.10	2256	2280	177.28	345.38	533.78	2396
456.00	535.50	514.50	2257	2280	176.65	344.39	532.52	2396
458.00	537.89	516.89	2257	2281	176.02	343.41	531.26	2396
460.00	540.29	519.29	2258	2281	175.40	342.43	530.02	2396
462.00	542.69	521.69	2258	2282	174.78	341.46	528.77	2396
464.00	545.08	524.08	2259	2282	174.17	340.49	527.54	2396
466.00	547.48	526.48	2260	2283	173.56	339.53	526.30	2396
468.00	549.88	528.88	2260	2283	172.95	338.57	525.08	2396
470.00	552.27	531.27	2261	2284	172.35	337.62	523.85	2396
472.00	554.67	533.67	2261	2284	171.75	336.67	522.64	2396
474.00	557.06	536.06	2262	2285	171.15	335.73	521.42	2396
476.00	559.46	538.46	2262	2285	170.56	334.79	520.22	2396
478.00	561.86	540.86	2263	2286	169.97	333.85	519.01	

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
480.00	564.25	543.25	2264	2286	169.39	332.92	517.81	2396
482.00	566.65	545.65	2264	2287	168.81	332.00	516.62	2396
484.00	569.05	548.05	2265	2287	168.23	331.08	515.43	2396
486.00	571.44	550.44	2265	2288	167.66	330.16	514.25	2396
488.00	573.84	552.84	2266	2288	167.09	329.25	513.07	2396
490.00	576.24	555.24	2266	2289	166.52	328.34	511.90	2396
492.00	578.63	557.63	2267	2289	165.96	327.44	510.73	2396
494.00	581.03	560.03	2267	2289	165.40	326.54	509.56	2396
496.00	583.43	562.43	2268	2290	164.85	325.64	508.40	2396
498.00	585.82	564.82	2268	2290	164.29	324.75	507.25	2396
500.00	588.22	567.22	2269	2291	163.74	323.86	506.09	2396
502.00	590.62	569.62	2269	2291	163.20	322.98	504.95	2397
504.00	593.01	572.01	2270	2292	162.66	322.10	503.80	2396
506.00	595.41	574.41	2270	2292	162.12	321.23	502.67	2397
508.00	597.80	576.80	2271	2293	161.58	320.36	501.53	2396
510.00	600.20	579.20	2271	2293	161.05	319.49	500.40	2397
512.00	602.60	581.60	2272	2293	160.52	318.63	499.23	2396
514.00	604.99	583.99	2272	2294	159.99	317.77	498.16	2396
516.00	607.39	586.39	2273	2294	159.47	316.92	497.04	2397
518.00	609.79	588.79	2273	2295	158.95	316.07	495.93	2396
520.00	612.18	591.18	2274	2295	158.43	315.23	494.82	2397
522.00	614.58	593.58	2274	2295	157.92	314.38	493.72	2396
524.00	616.98	595.98	2275	2296	157.40	313.55	492.62	2397
526.00	619.37	598.37	2275	2296	156.90	312.71	491.53	

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
528.00	621.77	600.77	2276	2297	156.39	311.88	490.44	2396
530.00	624.17	603.17	2276	2297	155.89	311.06	489.35	2396
532.00	626.56	605.56	2277	2297	155.39	310.23	488.27	2397
534.00	628.96	607.96	2277	2298	154.89	309.41	487.19	2396
536.00	631.36	610.36	2277	2298	154.40	308.60	486.12	2397
538.00	633.75	612.75	2278	2298	153.91	307.79	485.05	2396
540.00	636.15	615.15	2278	2299	153.42	306.98	483.98	2397
542.00	638.54	617.54	2279	2299	152.94	306.18	482.92	2396
544.00	640.94	619.94	2279	2300	152.45	305.38	481.86	2397
546.00	643.34	622.34	2280	2300	151.98	304.58	480.81	2396
548.00	645.73	624.73	2280	2300	151.50	303.79	479.75	2396
550.00	648.13	627.13	2280	2301	151.02	303.00	478.71	2397
552.00	650.53	629.53	2281	2301	150.55	302.21	477.67	2396
554.00	652.92	631.92	2281	2301	150.08	301.43	476.63	2397
556.00	655.32	634.32	2282	2302	149.62	300.65	475.59	2397
558.00	657.72	636.72	2282	2302	149.16	299.88	474.56	2397
560.00	660.11	639.11	2283	2302	148.70	299.10	473.54	2396
562.00	662.51	641.51	2283	2303	148.24	298.34	472.51	2396
564.00	664.91	643.91	2283	2303	147.78	297.57	471.49	2397
566.00	667.30	646.30	2284	2303	147.33	296.81	470.48	2396
568.00	669.70	648.70	2284	2304	146.88	296.05	469.46	2397
570.00	672.10	651.10	2285	2304	146.43	295.30	468.46	2396
572.00	674.49	653.49	2285	2304	145.99	294.55	467.45	2397
574.00	676.89	655.89	2285	2305	145.54	293.80	466.45	2396

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
576.00	679.28	658.28	2286	2305	145.10	293.05	465.45	2396
578.00	681.68	660.68	2286	2305	144.66	292.31	464.46	2397
580.00	684.08	663.08	2286	2306	144.23	291.57	463.47	2396
582.00	686.47	665.47	2287	2306	143.80	290.84	462.48	2397
584.00	688.87	667.87	2287	2306	143.37	290.11	461.50	2396
586.00	691.27	670.27	2288	2307	142.94	289.38	460.52	2397
588.00	693.66	672.66	2288	2307	142.51	288.66	459.55	2396
590.00	696.06	675.06	2288	2307	142.09	287.93	458.57	2396
592.00	698.46	677.46	2289	2308	141.67	287.21	457.61	2397
594.00	700.85	679.85	2289	2308	141.25	286.50	456.64	2396
596.00	703.25	682.25	2289	2308	140.83	285.79	455.68	2397
598.00	705.65	684.65	2290	2308	140.42	285.08	454.72	2396
600.00	708.04	687.04	2290	2309	140.00	284.37	453.77	2397
602.00	710.44	689.44	2290	2309	139.59	283.67	452.81	2396
604.00	712.83	691.83	2291	2309	139.19	282.97	451.87	2396
606.00	715.23	694.23	2291	2310	138.78	282.27	450.92	2397
608.00	717.63	696.63	2292	2310	138.38	281.58	449.98	2396
610.00	720.02	699.02	2292	2310	137.98	280.89	449.04	2397
612.00	722.42	701.42	2292	2311	137.58	280.20	448.11	2396
614.00	724.82	703.82	2293	2311	137.18	279.51	447.18	2397
616.00	727.21	706.21	2293	2311	136.78	278.83	446.25	2396
618.00	729.61	708.61	2293	2311	136.39	278.15	445.32	2396
620.00	732.01	711.01	2294	2312	136.00	277.47	444.40	2397
622.00	734.40	713.40	2294	2312	135.61	276.80	443.48	2396

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
								2397
624.00	736.80	715.80	2294	2312	135.23	276.13	442.57	
								2396
626.00	739.20	718.20	2295	2312	134.84	275.46	441.66	
								2397
628.00	741.59	720.59	2295	2313	134.46	274.80	440.75	
								2396
630.00	743.99	722.99	2295	2313	134.08	274.14	439.84	
								2397
632.00	746.39	725.39	2296	2313	133.70	273.48	438.94	
								2396
634.00	748.78	727.78	2296	2314	133.32	272.82	438.04	
								2396
636.00	751.18	730.18	2296	2314	132.95	272.17	437.15	
								2397
638.00	753.57	732.57	2296	2314	132.58	271.52	436.25	
								2396
640.00	755.97	734.97	2297	2314	132.21	270.87	435.36	
								2397
642.00	758.37	737.37	2297	2315	131.84	270.22	434.48	
								2396
644.00	760.76	739.76	2297	2315	131.47	269.58	433.59	
								2397
646.00	763.16	742.16	2298	2315	131.11	268.94	432.71	
								2396
648.00	765.56	744.56	2298	2315	130.74	268.30	431.84	
								2396
650.00	767.95	746.95	2298	2316	130.38	267.67	430.96	
								2397
652.00	770.35	749.35	2299	2316	130.02	267.04	430.09	
								2396
654.00	772.75	751.75	2299	2316	129.66	266.41	429.22	
								2397
656.00	775.14	754.14	2299	2316	129.31	265.78	428.36	
								2396
658.00	777.54	756.54	2300	2317	128.95	265.15	427.50	
								2397
660.00	779.94	758.94	2300	2317	128.60	264.53	426.64	
								2396
662.00	782.33	761.33	2300	2317	128.25	263.91	425.78	
								2396
664.00	784.73	763.73	2300	2317	127.90	263.30	424.93	
								2397
666.00	787.13	766.13	2301	2318	127.56	262.68	424.08	
								2396
668.00	789.52	768.52	2301	2318	127.21	262.07	423.23	
								2397
670.00	791.92	770.92	2301	2318	126.87	261.46	422.38	

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
								2396
672.00	794.31	773.31	2302	2318	126.53	260.86	421.54	2397
674.00	796.71	775.71	2302	2319	126.19	260.25	420.70	2396
676.00	799.11	778.11	2302	2319	125.85	259.65	419.87	2428
678.00	801.54	780.54	2302	2319	125.50	259.03	419.00	2596
680.00	804.13	783.13	2303	2320	125.11	258.32	417.99	2650
682.00	806.78	785.78	2304	2321	124.69	257.57	416.93	2743
684.00	809.52	788.52	2306	2322	124.25	256.76	415.78	2694
686.00	812.22	791.22	2307	2324	123.83	256.00	414.68	2626
688.00	814.85	793.85	2308	2324	123.43	255.28	413.66	2642
690.00	817.49	796.49	2309	2325	123.03	254.55	412.63	2494
692.00	819.98	798.98	2309	2326	122.68	253.92	411.73	2481
694.00	822.46	801.46	2310	2326	122.34	253.29	410.86	2423
696.00	824.89	803.89	2310	2327	122.01	252.71	410.03	2481
698.00	827.37	806.37	2311	2327	121.67	252.09	409.16	2495
700.00	829.86	808.86	2311	2328	121.32	251.47	408.28	2512
702.00	832.37	811.37	2312	2328	120.98	250.84	407.39	2437
704.00	834.81	813.81	2312	2329	120.65	250.25	406.57	2423
706.00	837.23	816.23	2312	2329	120.33	249.68	405.76	2519
708.00	839.75	818.75	2313	2329	119.99	249.05	404.87	2623
710.00	842.38	821.38	2314	2330	119.62	248.37	403.89	2520
712.00	844.90	823.90	2314	2331	119.28	247.75	403.01	2343
714.00	847.24	826.24	2314	2331	118.99	247.22	402.28	2416
716.00	849.66	828.66	2315	2331	118.68	246.67	401.49	2464
718.00	852.12	831.12	2315	2331	118.36	246.08	400.66	

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
720.00	854.59	833.59	2316	2332	118.04	245.50	399.34	2465
722.00	857.11	836.11	2316	2332	117.71	244.90	398.97	2520
724.00	859.94	838.94	2318	2334	117.29	244.11	397.84	2829
726.00	862.61	841.61	2318	2335	116.91	243.43	396.85	2673
728.00	865.20	844.20	2319	2336	116.57	242.79	395.94	2585
730.00	867.89	846.89	2320	2337	116.20	242.11	394.95	2690
732.00	870.65	849.65	2321	2338	115.81	241.38	393.89	2763
734.00	873.51	852.51	2323	2340	115.39	240.60	392.75	2864
736.00	876.15	855.15	2324	2340	115.04	239.95	391.82	2636
738.00	878.75	857.75	2325	2341	114.70	239.32	390.92	2603
740.00	881.36	860.36	2325	2342	114.36	238.70	390.02	2604
742.00	883.97	862.97	2326	2343	114.03	238.08	389.12	2610
744.00	886.61	865.61	2327	2344	113.68	237.44	388.19	2644
746.00	889.30	868.30	2328	2345	113.33	236.78	387.23	2692
748.00	892.02	871.01	2329	2346	112.97	236.11	386.26	2712
750.00	894.76	873.76	2330	2347	112.60	235.43	385.27	2742
752.00	897.30	876.30	2331	2347	112.29	234.85	384.44	2543
754.00	899.82	878.82	2331	2348	111.99	234.29	383.64	2519
756.00	902.54	881.54	2332	2349	111.64	233.63	382.68	2722
758.00	905.17	884.17	2333	2350	111.31	233.03	381.80	2625
760.00	907.67	886.67	2333	2350	111.02	232.48	381.01	2507
762.00	910.33	889.33	2334	2351	110.69	231.87	380.12	2652
764.00	912.92	891.92	2335	2352	110.38	231.28	379.27	2599
766.00	915.65	894.65	2336	2353	110.03	230.64	378.32	2726

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	918.23	897.23	2337	2353	109.73	230.07	377.50	2579
770.00	920.73	899.73	2337	2354	109.45	229.54	376.73	2499
772.00	923.23	902.23	2337	2354	109.16	229.01	375.97	2504
774.00	925.81	904.81	2338	2355	108.86	228.45	375.16	2576
776.00	928.49	907.49	2339	2355	108.54	227.84	374.27	2680
778.00	931.20	910.20	2340	2356	108.21	227.22	373.35	2712
780.00	933.91	912.91	2341	2357	107.88	226.60	372.45	2711
782.00	936.64	915.64	2342	2358	107.55	225.98	371.53	2731
784.00	939.44	918.44	2343	2360	107.20	225.32	370.56	2799
786.00	942.06	921.06	2344	2360	106.90	224.76	369.73	2623
788.00	944.72	923.72	2344	2361	106.60	224.18	368.89	2652
790.00	947.25	926.25	2345	2362	106.32	223.66	368.14	2532
792.00	949.89	928.89	2346	2362	106.02	223.10	367.30	2643
794.00	952.51	931.51	2346	2363	105.73	222.54	366.49	2617
796.00	955.13	934.13	2347	2364	105.44	221.99	365.68	2622
798.00	957.87	936.87	2348	2365	105.12	221.38	364.79	2743
800.00	960.53	939.53	2349	2366	104.82	220.82	363.96	2659
802.00	963.11	942.11	2349	2366	104.54	220.30	363.19	2581
804.00	965.88	944.88	2350	2367	104.22	219.68	362.28	2770
806.00	968.46	947.46	2351	2368	103.95	219.17	361.52	2580
808.00	971.22	950.22	2352	2369	103.63	218.56	360.63	2761
810.00	973.96	952.96	2353	2370	103.33	217.98	359.77	2734
812.00	976.53	955.53	2354	2370	103.06	217.47	359.02	2571
814.00	979.03	958.03	2354	2371	102.81	217.00	358.33	2499

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
816.00	981.71	960.71	2355	2371	102.51	216.44	357.50	2687
818.00	984.57	963.57	2356	2373	102.18	215.81	356.56	2861
820.00	987.71	966.71	2358	2375	101.79	215.04	355.40	3137
822.00	990.56	969.56	2359	2376	101.46	214.42	354.48	2850
824.00	993.57	972.57	2361	2378	101.10	213.72	353.43	3010
826.00	996.33	975.33	2362	2379	100.81	213.15	352.58	2762
828.00	998.96	977.96	2362	2380	100.54	212.64	351.83	2623
830.00	1001.63	980.63	2363	2380	100.26	212.11	351.04	2673
832.00	1004.47	983.47	2364	2382	99.95	211.52	350.15	2837
834.00	1007.32	986.32	2365	2383	99.64	210.91	349.25	2850
836.00	1010.09	989.09	2366	2384	99.35	210.35	348.41	2771
838.00	1012.98	991.98	2368	2385	99.03	209.74	347.48	2896
840.00	1015.76	994.76	2368	2386	98.74	209.18	346.65	2779
842.00	1018.49	997.49	2369	2387	98.46	208.64	345.85	2723
844.00	1021.19	1000.19	2370	2388	98.19	208.12	345.07	2702
846.00	1023.76	1002.76	2371	2388	97.95	207.66	344.38	2574
848.00	1026.45	1005.45	2371	2389	97.68	207.14	343.61	2691
850.00	1029.20	1008.20	2372	2390	97.41	206.61	342.82	2747
852.00	1031.80	1010.80	2373	2390	97.16	206.14	342.11	2604
854.00	1034.50	1013.50	2374	2391	96.90	205.63	341.36	2694
856.00	1037.13	1016.13	2374	2392	96.65	205.15	340.64	2623
858.00	1039.70	1018.70	2375	2392	96.41	204.70	339.97	2575
860.00	1042.32	1021.32	2375	2393	96.17	204.23	339.27	2620
862.00	1044.95	1023.95	2376	2393	95.92	203.76	338.56	2633

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
864.00	1047.63	1026.63	2376	2394	95.67	203.27	337.82	2682
866.00	1050.39	1029.39	2377	2395	95.40	202.75	337.05	2753
868.00	1053.35	1032.35	2379	2396	95.10	202.15	336.13	2962
870.00	1056.13	1035.13	2380	2397	94.83	201.63	335.35	2777
872.00	1059.05	1038.05	2381	2399	94.53	201.05	334.47	2923
874.00	1061.86	1040.86	2382	2400	94.26	200.52	333.67	2812
876.00	1064.79	1043.79	2383	2401	93.96	199.94	332.80	2929
878.00	1067.55	1046.55	2384	2402	93.71	199.44	332.04	2756
880.00	1070.29	1049.29	2385	2403	93.45	198.94	331.30	2744
882.00	1072.93	1051.93	2385	2403	93.22	198.49	330.62	2636
884.00	1075.69	1054.69	2386	2404	92.96	198.00	329.87	2764
886.00	1078.37	1057.37	2387	2405	92.73	197.53	329.17	2677
888.00	1081.12	1060.12	2388	2406	92.48	197.04	328.43	2750
890.00	1083.92	1062.92	2389	2407	92.22	196.54	327.66	2805
892.00	1086.74	1065.74	2390	2408	91.96	196.03	326.89	2820
894.00	1089.57	1068.57	2391	2409	91.70	195.52	326.11	2822
896.00	1092.50	1071.50	2392	2410	91.42	194.97	325.23	2926
898.00	1095.20	1074.20	2392	2411	91.18	194.51	324.53	2707
900.00	1097.88	1076.88	2393	2411	90.95	194.06	323.91	2673
902.00	1100.59	1079.59	2394	2412	90.72	193.60	323.21	2712
904.00	1103.34	1082.34	2395	2413	90.48	193.14	322.51	2742
906.00	1106.05	1085.05	2395	2413	90.25	192.68	321.82	2713
908.00	1108.76	1087.76	2396	2414	90.02	192.23	321.14	2704
910.00	1111.44	1090.44	2397	2415	89.79	191.79	320.47	2685

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
912.00	1114.20	1093.20	2397	2416	89.56	191.33	319.76	2756
914.00	1116.84	1095.84	2398	2416	89.34	190.91	319.12	2645
916.00	1119.51	1098.51	2398	2417	89.12	190.48	318.43	2665
918.00	1122.15	1101.15	2399	2417	88.91	190.06	317.84	2641
920.00	1124.80	1103.80	2400	2418	88.70	189.64	317.21	2653
922.00	1127.46	1106.46	2400	2418	88.48	189.22	316.57	2652
924.00	1130.13	1109.13	2401	2419	88.27	188.80	315.93	2676
926.00	1132.80	1111.80	2401	2419	88.05	188.38	315.29	2667
928.00	1135.46	1114.46	2402	2420	87.84	187.97	314.66	2657
930.00	1138.25	1117.25	2403	2421	87.61	187.51	313.96	2793
932.00	1140.99	1119.99	2403	2422	87.39	187.07	313.29	2732
934.00	1143.66	1122.66	2404	2422	87.18	186.66	312.66	2669
936.00	1146.42	1125.42	2405	2423	86.96	186.21	311.98	2769
938.00	1149.28	1128.28	2406	2424	86.72	185.74	311.26	2852
940.00	1151.98	1130.98	2406	2425	86.50	185.32	310.62	2706
942.00	1154.73	1133.73	2407	2425	86.29	184.89	309.96	2752
944.00	1157.58	1136.58	2408	2426	86.05	184.43	309.24	2850
946.00	1160.36	1139.36	2409	2427	85.83	183.99	308.57	2776
948.00	1163.05	1142.05	2409	2428	85.63	183.58	307.96	2686
950.00	1165.87	1144.87	2410	2429	85.40	183.14	307.26	2825
952.00	1169.04	1148.04	2412	2430	85.12	182.57	306.38	3164
954.00	1171.86	1150.86	2413	2431	84.89	182.12	305.70	2823
956.00	1174.67	1153.67	2414	2432	84.67	181.69	305.03	2809
958.00	1177.59	1156.59	2415	2433	84.44	181.21	304.30	2922

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
								2714
960.00	1180.30	1159.30	2415	2434	84.23	180.81	303.68	
								2718
962.00	1183.02	1162.02	2416	2434	84.03	180.41	303.06	
								2710
964.00	1185.73	1164.73	2416	2435	83.83	180.01	302.45	
								2763
966.00	1188.50	1167.50	2417	2436	83.62	179.60	301.81	
								2744
968.00	1191.24	1170.24	2418	2436	83.42	179.19	301.19	
								2963
970.00	1194.20	1173.20	2419	2438	83.18	178.72	300.46	
								2957
972.00	1197.16	1176.16	2420	2439	82.95	178.25	299.73	
								2872
974.00	1200.03	1179.03	2421	2440	82.73	177.81	299.05	
								2719
976.00	1202.75	1181.75	2422	2440	82.53	177.42	298.45	
								2816
978.00	1205.57	1184.57	2422	2441	82.32	177.00	297.80	
								2732
980.00	1208.30	1187.30	2423	2442	82.12	176.61	297.20	
								2773
982.00	1211.07	1190.07	2424	2443	81.92	176.21	296.58	
								2709
984.00	1213.78	1192.78	2424	2443	81.73	175.83	295.99	
								2693
986.00	1216.48	1195.48	2425	2444	81.55	175.46	295.42	
								2807
988.00	1219.28	1198.28	2426	2444	81.34	175.05	294.79	
								2771
990.00	1222.05	1201.05	2426	2445	81.15	174.66	294.18	
								2824
992.00	1224.88	1203.88	2427	2446	80.94	174.25	293.55	
								2736
994.00	1227.61	1206.61	2428	2447	80.75	173.87	292.96	
								2829
996.00	1230.44	1209.44	2429	2447	80.55	173.46	292.33	
								2862
998.00	1233.30	1212.30	2429	2448	80.34	173.05	291.69	
								2726
1000.00	1236.03	1215.03	2430	2449	80.16	172.68	291.11	
								2673
1002.00	1238.70	1217.70	2431	2449	79.98	172.32	290.55	
								2697
1004.00	1241.39	1220.39	2431	2450	79.80	171.96	290.01	
								2812
1006.00	1244.21	1223.21	2432	2451	79.61	171.57	289.40	

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
1008.00	1246.94	1225.94	2432	2451	79.42	171.20	288.23	2734
1010.00	1249.56	1228.56	2433	2452	79.25	170.87	288.31	2624
1012.00	1252.21	1231.21	2433	2452	79.09	170.53	287.73	2643
1014.00	1254.80	1233.80	2434	2452	78.92	170.20	287.28	2597
1016.00	1257.49	1236.49	2434	2453	78.75	169.85	286.74	2683
1018.00	1260.16	1239.16	2435	2453	78.58	169.51	286.20	2677
1020.00	1262.88	1241.88	2435	2454	78.40	169.15	285.65	2717
1022.00	1265.64	1244.64	2436	2454	78.22	168.79	285.08	2758
1024.00	1268.54	1247.54	2437	2455	78.02	168.38	284.45	2900
1026.00	1271.18	1250.18	2437	2456	77.85	168.05	283.94	2645
1028.00	1273.84	1252.84	2437	2456	77.69	167.72	283.42	2652
1030.00	1276.51	1255.51	2438	2457	77.52	167.39	282.90	2673
1032.00	1279.22	1258.22	2438	2457	77.35	167.04	282.36	2713
1034.00	1281.96	1260.96	2439	2458	77.18	166.69	281.82	2732
1036.00	1284.75	1263.75	2440	2458	77.00	166.33	281.25	2798
1038.00	1288.04	1267.04	2441	2460	76.75	165.82	280.44	3282
1040.00	1290.71	1269.71	2442	2461	76.58	165.49	279.93	2673
1042.00	1293.35	1272.35	2442	2461	76.42	165.17	279.44	2642
1044.00	1295.92	1274.92	2442	2461	76.27	164.87	278.97	2571
1046.00	1298.93	1277.93	2443	2462	76.07	164.45	278.31	3011
1048.00	1301.83	1280.83	2444	2463	75.88	164.07	277.71	2894
1050.00	1304.57	1283.57	2445	2464	75.71	163.73	277.18	2739
1052.00	1307.11	1286.11	2445	2464	75.57	163.44	276.73	2540
1054.00	1309.73	1288.73	2445	2464	75.42	163.13	276.25	2626

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
1056.00	1312.46	1291.46	2446	2465	75.25	162.80	275.73	2731
1058.00	1315.25	1294.25	2447	2466	75.08	162.45	275.19	2783
1060.00	1318.18	1297.18	2448	2466	74.89	162.07	274.59	2934
1062.00	1321.12	1300.12	2448	2467	74.70	161.69	273.98	2936
1064.00	1324.39	1303.39	2450	2469	74.47	161.21	273.22	3278
1066.00	1327.63	1306.63	2451	2471	74.24	160.74	272.48	3234
1068.00	1330.62	1309.62	2452	2472	74.05	160.35	271.87	2988
1070.00	1333.43	1312.43	2453	2473	73.88	160.01	271.32	2817
1072.00	1336.35	1315.35	2454	2474	73.70	159.64	270.74	2922
1074.00	1339.07	1318.07	2455	2474	73.54	159.32	270.24	2717
1076.00	1342.00	1321.00	2455	2475	73.36	158.95	269.66	2923
1078.00	1344.76	1323.76	2456	2475	73.20	158.63	269.15	2765
1080.00	1348.05	1327.05	2457	2477	72.98	158.16	268.41	3289
1082.00	1350.73	1329.73	2458	2478	72.83	157.86	267.94	2680
1084.00	1353.41	1332.41	2458	2478	72.68	157.56	267.47	2678
1086.00	1356.29	1335.29	2459	2479	72.51	157.21	266.91	2880
1088.00	1359.08	1338.08	2460	2479	72.35	156.89	266.40	2794
1090.00	1361.86	1340.86	2460	2480	72.19	156.56	265.89	2782
1092.00	1364.90	1343.90	2461	2481	72.00	156.18	265.28	3036
1094.00	1367.95	1346.95	2462	2482	71.81	155.79	264.67	3051
1096.00	1370.77	1349.77	2463	2483	71.65	155.47	264.15	2825
1098.00	1373.50	1352.50	2464	2483	71.51	155.16	263.67	2729
1100.00	1376.66	1355.66	2465	2485	71.31	154.75	263.02	3156
1102.00	1379.62	1358.62	2466	2486	71.13	154.40	262.46	2959

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
1104.00	1382.20	1361.20	2466	2486	71.00	154.13	262.04	2585
1106.00	1384.82	1363.82	2466	2486	70.87	153.86	261.61	2613
1108.00	1387.37	1366.37	2466	2486	70.74	153.60	261.20	2556
1110.00	1389.86	1368.86	2466	2486	70.62	153.35	260.82	2493
1112.00	1392.51	1371.51	2467	2487	70.48	153.08	260.38	2645
1114.00	1395.21	1374.21	2467	2487	70.34	152.79	259.93	2703
1116.00	1397.89	1376.89	2468	2487	70.20	152.51	259.48	2682
1118.00	1400.57	1379.57	2468	2488	70.07	152.23	259.04	2673
1120.00	1403.26	1382.26	2468	2488	69.93	151.94	258.59	2695
1122.00	1405.86	1384.86	2469	2488	69.80	151.68	258.18	2600
1124.00	1408.45	1387.45	2469	2489	69.67	151.42	257.77	2585
1126.00	1411.05	1390.05	2469	2489	69.55	151.16	257.36	2600
1128.00	1413.80	1392.80	2470	2489	69.40	150.87	256.90	2751
1130.00	1416.65	1395.65	2470	2490	69.25	150.56	256.40	2850
1132.00	1419.38	1398.38	2471	2490	69.11	150.27	255.95	2727
1134.00	1422.11	1401.11	2471	2491	68.97	149.99	255.50	2733
1136.00	1424.83	1403.83	2472	2491	68.83	149.71	255.05	2726
1138.00	1427.56	1406.56	2472	2492	68.70	149.42	254.60	2725
1140.00	1430.33	1409.33	2473	2492	68.56	149.13	254.14	2773
1142.00	1433.05	1412.05	2473	2493	68.42	148.86	253.70	2720
1144.00	1435.64	1414.64	2473	2493	68.30	148.61	253.31	2585
1146.00	1438.31	1417.31	2473	2493	68.17	148.34	252.88	2675
1148.00	1441.01	1420.01	2474	2493	68.04	148.07	252.45	2701
1150.00	1443.73	1422.73	2474	2494	67.90	147.80	252.02	2713

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
								2719
1152.00	1446.45	1425.45	2475	2494	67.77	147.52	251.59	2652
1154.00	1449.10	1428.10	2475	2495	67.64	147.27	251.18	2781
1156.00	1451.88	1430.88	2476	2495	67.51	146.98	250.72	2609
1158.00	1454.49	1433.49	2476	2495	67.39	146.73	250.33	2731
1160.00	1457.22	1436.22	2476	2496	67.25	146.46	249.90	2889
1162.00	1460.11	1439.11	2477	2496	67.11	146.16	249.41	2592
1164.00	1462.70	1441.70	2477	2497	66.99	145.92	249.03	2622
1166.00	1465.32	1444.32	2477	2497	66.87	145.67	248.63	2493
1168.00	1467.81	1446.81	2477	2497	66.76	145.45	248.28	2479
1170.00	1470.29	1449.29	2477	2497	66.65	145.23	247.94	2447
1172.00	1472.74	1451.74	2477	2497	66.55	145.02	247.61	2637
1174.00	1475.38	1454.38	2478	2497	66.43	144.77	247.21	2706
1176.00	1478.08	1457.08	2478	2497	66.30	144.51	246.80	2802
1178.00	1480.88	1459.88	2479	2498	66.17	144.23	246.35	2809
1180.00	1483.69	1462.69	2479	2498	66.03	143.95	245.91	2824
1182.00	1486.52	1465.52	2480	2499	65.90	143.67	245.46	2863
1184.00	1489.38	1468.38	2480	2500	65.76	143.39	245.00	2846
1186.00	1492.23	1471.23	2481	2500	65.62	143.10	244.54	2937
1188.00	1495.16	1474.16	2482	2501	65.48	142.80	244.06	2949
1190.00	1498.11	1477.11	2483	2502	65.33	142.50	243.57	3081
1192.00	1501.19	1480.19	2484	2503	65.17	142.17	243.04	3249
1194.00	1504.44	1483.44	2485	2504	65.00	141.80	242.45	3794
1196.00	1508.24	1487.24	2487	2507	64.76	141.30	241.63	3409
1198.00	1511.64	1490.64	2489	2509	64.56	140.90	240.98	

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
								2821
1200.00	1514.47	1493.47	2489	2509	64.43	140.63	240.55	
								2710
1202.00	1517.18	1496.18	2489	2510	64.32	140.38	240.15	
								2290
1204.00	1519.47	1498.47	2489	2509	64.23	140.21	239.88	
								2790
1206.00	1522.26	1501.26	2490	2510	64.11	139.95	239.47	
								3220
1208.00	1525.48	1504.48	2491	2511	63.94	139.60	238.90	
								3033
1210.00	1528.51	1507.51	2492	2512	63.79	139.29	238.40	
								2921
1212.00	1531.44	1510.44	2492	2513	63.65	139.01	237.95	
								2830
1214.00	1534.27	1513.27	2493	2514	63.53	138.75	237.52	
								2883
1216.00	1537.15	1516.15	2494	2514	63.40	138.48	237.08	
								2918
1218.00	1540.07	1519.07	2494	2515	63.26	138.20	236.63	
								3040
1220.00	1543.11	1522.11	2495	2516	63.12	137.89	236.14	
								3081
1222.00	1546.19	1525.19	2496	2517	62.97	137.58	235.64	
								3252
1224.00	1549.44	1528.44	2497	2518	62.80	137.24	235.08	
								2957
1226.00	1552.40	1531.40	2498	2519	62.67	136.96	234.63	
								2922
1228.00	1555.32	1534.32	2499	2520	62.54	136.68	234.19	
								3059
1230.00	1558.38	1537.38	2500	2521	62.39	136.38	233.70	
								2883
1232.00	1561.26	1540.26	2500	2521	62.27	136.12	233.27	
								2871
1234.00	1564.13	1543.13	2501	2522	62.14	135.86	232.85	
								3200
1236.00	1567.33	1546.33	2502	2523	61.99	135.53	232.33	
								3260
1238.00	1570.59	1549.59	2503	2525	61.83	135.20	231.78	
								3141
1240.00	1573.73	1552.73	2504	2526	61.68	134.89	231.28	
								2899
1242.00	1576.63	1555.63	2505	2526	61.55	134.63	230.85	
								3443
1244.00	1580.07	1559.08	2507	2528	61.37	134.25	230.25	
								3152
1246.00	1583.23	1562.23	2508	2529	61.23	133.95	229.75	

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
1248.00	1586.08	1565.08	2508	2530	61.11	133.70	229.34	2852
1250.00	1589.39	1568.39	2509	2531	60.95	133.36	228.79	3314
1252.00	1592.61	1571.61	2511	2532	60.80	133.04	228.27	3220
1254.00	1595.89	1574.89	2512	2534	60.64	132.71	227.74	3283
1256.00	1599.08	1578.08	2513	2535	60.49	132.41	227.24	3184
1258.00	1602.12	1581.12	2514	2536	60.36	132.13	226.79	3042
1260.00	1605.07	1584.07	2514	2537	60.23	131.87	226.36	2952
1262.00	1607.86	1586.86	2515	2537	60.12	131.64	225.99	2786
1264.00	1611.21	1590.21	2516	2538	59.96	131.30	225.44	3349
1266.00	1614.18	1593.18	2517	2539	59.84	131.04	225.02	2974
1268.00	1617.19	1596.19	2518	2540	59.71	130.77	224.58	3008
1270.00	1619.67	1598.67	2518	2540	59.63	130.59	224.30	2478
1272.00	1622.84	1601.84	2519	2541	59.49	130.30	223.82	3171
1274.00	1626.17	1605.17	2520	2542	59.33	129.97	223.28	3334
1276.00	1629.09	1608.09	2521	2543	59.21	129.73	222.88	2915
1278.00	1632.31	1611.31	2522	2544	59.07	129.43	222.39	3221
1280.00	1635.71	1614.71	2523	2546	58.91	129.09	221.84	3402
1282.00	1639.13	1618.13	2524	2547	58.75	128.75	221.29	3413
1284.00	1642.34	1621.34	2525	2549	58.61	128.46	220.81	3213
1286.00	1645.36	1624.36	2526	2549	58.49	128.20	220.39	3019
1288.00	1648.59	1627.59	2527	2551	58.35	127.91	219.91	3226
1290.00	1651.70	1630.70	2528	2552	58.22	127.63	219.46	3111
1292.00	1654.56	1633.56	2529	2552	58.11	127.41	219.09	2859
1294.00	1658.06	1637.06	2530	2554	57.95	127.06	218.52	3505

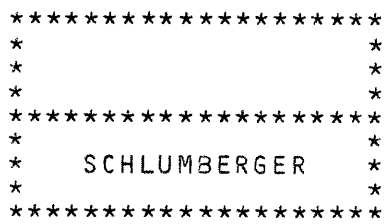
TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
1296.00	1661.20	1640.20	2531	2555	57.82	126.79	218.07	3143
1298.00	1665.25	1644.25	2534	2558	57.60	126.33	217.32	4045
1300.00	1668.79	1647.79	2535	2560	57.43	125.98	216.75	3545
1302.00	1672.19	1651.19	2536	2561	57.28	125.66	216.23	3397
1304.00	1675.64	1654.64	2538	2563	57.13	125.34	215.69	3453
1306.00	1679.00	1658.00	2539	2564	56.99	125.03	215.19	3354
1308.00	1682.42	1661.42	2540	2566	56.84	124.71	214.67	3425
1310.00	1685.65	1664.65	2541	2567	56.70	124.43	214.21	3225
1312.00	1688.83	1667.83	2542	2568	56.57	124.16	213.76	3184
1314.00	1692.24	1671.24	2544	2569	56.43	123.85	213.26	3405
1316.00	1695.37	1674.37	2545	2570	56.31	123.59	212.83	3130
1318.00	1698.56	1677.56	2546	2571	56.18	123.33	212.39	3193
1320.00	1701.67	1680.67	2546	2572	56.06	123.07	211.98	3107
1322.00	1705.24	1684.24	2548	2574	55.90	122.74	211.42	3577
1324.00	1708.61	1687.61	2549	2575	55.76	122.44	210.93	3370
1326.00	1711.65	1690.65	2550	2576	55.65	122.20	210.54	3035
1328.00	1714.80	1693.80	2551	2577	55.53	121.95	210.13	3148
1330.00	1717.73	1696.73	2551	2578	55.42	121.73	209.77	2930
1332.00	1720.75	1699.75	2552	2578	55.31	121.49	209.38	3024
1334.00	1723.97	1702.97	2553	2580	55.19	121.23	208.95	3219
1336.00	1727.17	1706.17	2554	2581	55.06	120.97	208.52	3195
1338.00	1730.38	1709.38	2555	2582	54.94	120.71	208.09	3212
1340.00	1733.54	1712.54	2556	2583	54.82	120.46	207.68	3167
1342.00	1736.74	1715.74	2557	2584	54.70	120.20	207.26	3191

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
								3468
1344.00	1740.20	1719.20	2558	2585	54.56	119.90	206.76	
								3099
1346.00	1743.30	1722.30	2559	2586	54.45	119.66	206.37	
								3493
1348.00	1746.80	1725.80	2561	2588	54.30	119.36	205.87	
								3283
1350.00	1750.08	1729.08	2562	2589	54.18	119.09	205.43	
								3163
1352.00	1753.24	1732.24	2562	2590	54.06	118.85	205.03	
								3310
1354.00	1756.55	1735.55	2564	2591	53.94	118.58	204.59	
								3407
1356.00	1759.96	1738.96	2565	2592	53.80	118.30	204.12	
								3480
1358.00	1763.44	1742.44	2566	2594	53.66	118.00	203.63	
								3350
1360.00	1766.79	1745.79	2567	2595	53.54	117.73	203.19	
								3207
1362.00	1770.00	1749.00	2568	2596	53.42	117.49	202.78	
								3436
1364.00	1773.43	1752.43	2570	2598	53.29	117.20	202.31	
								3347
1366.00	1776.78	1755.78	2571	2599	53.16	116.94	201.87	
								3573
1368.00	1780.35	1759.35	2572	2600	53.02	116.63	201.37	
								3241
1370.00	1783.59	1762.59	2573	2602	52.90	116.39	200.96	
								3375
1372.00	1786.97	1765.97	2574	2603	52.78	116.12	200.52	
								3502
1374.00	1790.47	1769.47	2576	2604	52.64	115.83	200.04	
								3549
1376.00	1794.02	1773.02	2577	2606	52.50	115.54	199.56	
								3341
1378.00	1797.36	1776.36	2578	2607	52.38	115.28	199.13	
								3696
1380.00	1801.06	1780.06	2580	2609	52.24	114.96	198.60	
								4040
1382.00	1805.10	1784.10	2582	2612	52.06	114.59	197.98	
								3984
1384.00	1809.08	1788.08	2584	2614	51.89	114.22	197.37	
								3426
1386.00	1812.51	1791.51	2585	2616	51.76	113.96	196.93	
								3261
1388.00	1815.77	1794.77	2586	2617	51.65	113.72	196.54	
								3227
1390.00	1818.99	1797.99	2587	2618	51.54	113.49	196.15	

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
1392.00	1822.14	1801.14	2588	2618	51.44	113.27	195.79	3144
1394.00	1825.30	1804.30	2589	2619	51.33	113.05	195.42	3162
1396.00	1828.61	1807.61	2590	2620	51.22	112.80	195.02	3310
1398.00	1831.83	1810.83	2591	2621	51.11	112.57	194.64	3221
1400.00	1835.11	1814.11	2592	2622	51.00	112.34	194.25	3286
1402.00	1838.30	1817.30	2592	2623	50.90	112.12	193.88	3187
1404.00	1841.48	1820.48	2593	2624	50.79	111.89	193.51	3185
1406.00	1844.64	1823.64	2594	2625	50.69	111.68	193.16	3155
1408.00	1847.80	1826.80	2595	2626	50.59	111.46	192.80	3155

SYNTHETIC

ANALYST: Z.KATELIS 14-SEP-89 12:15:38 PROGRAM: GMULTP 006.E06



SYNTHETIC SEISMOGRAM TABLE

COMPANY : ESSO AUSTRALIA LTD
WELL : SWEETLIPS - 1
FIELD : WILDCAT
COUNTRY : AUSTRALIA
REFERENCE: 56472
LOGGED : 10/8/89

COMPANY : ESSO AUSTRALIA LTD WELL : SWEETLIPS - 1

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 :
GRFDO1- CHANNEL NAME FOR INPUT DENSITY LOG DATA
GTRDC1- 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	779.000	M
INITIAL TWO WAY TRAVEL T	INITAU	.676740	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	2886.63	M/S
UNIFORM EARTH VELOCITY	UNERTH	1485.00	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	: 2396.000	M/S	800.000	- 73.0000	
		1485.000		73.0000		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
		2413	2.191					
678.7	781.41			.089	.99203	.08927	.08927	0
		2747	2.302					
680.7	784.16			-.045	.99001	-.04481	-.05278	-.00797
		2566	2.251					
682.7	786.73			.051	.98746	.05021	.05875	.00853
		2800	2.284					
684.7	789.53			.001	.98746	.00060	-.01096	-.01156
		2800	2.286					
686.7	792.33			-.074	.98201	-.07336	-.06742	.00594
		2494	2.212					
688.7	794.82			.042	.98027	.04139	.04967	.00828
		2618	2.292					
690.7	797.44			-.034	.97911	-.03370	-.04714	-.01344
		2466	2.272					
692.7	799.90			-.002	.97910	-.00185	.01687	.01871
		2462	2.267					
694.7	802.37			-.007	.97905	-.00705	-.01854	-.01149
		2442	2.253					
696.7	804.81			.014	.97887	.01330	.01684	.00353
		2487	2.273					
698.7	807.30			.004	.97885	.00424	.00519	.00095
		2504	2.278					
700.7	809.80			-.002	.97885	-.00187	-.00718	-.00531
		2503	2.270					
702.7	812.30			-.030	.97797	-.02927	-.02562	.00365
		2396	2.233					
704.7	814.70			.017	.97770	.01641	.01625	-.00016
		2455	2.254					
706.7	817.15			.019	.97736	.01834	.01747	-.00087
		2524	2.276					
708.7	819.68			.042	.97565	.04083	.04112	.00029
		2700	2.313					
710.7	822.38			-.079	.96956	-.07710	-.08437	-.00727
		2400	2.222					
712.7	824.78			-.008	.96949	-.00781	.00360	.01141
		2352	2.230					
714.7	827.13			.032	.96848	.03131	.02435	-.00695
		2460	2.275					
716.7	829.59			-.026	.96784	-.02486	-.02036	.00451
		2420	2.197					
718.7	832.01			.031	.96689	.03041	.04026	.00985
		2528	2.240					
720.7	834.54			.026	.96623	.02532	.00090	-.02443
		2675	2.230					
722.7	837.21			.013	.96605	.01301	.02880	.01579
		2701	2.268					
724.7	839.91			-.008	.96598	-.00820	-.01794	-.00973
		2688	2.241					

COMPANY : ESSO AUSTRALIA LTD WELL : SWEETLIPS - 1 PAGE 1

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
726.7	842.60			-.072	.96094	-.06976	-.07079	-.00103
		2508	2.079					
728.7	845.11			.061	.95743	.05815	.07065	.01251
		2683	2.193					
730.7	847.79			.044	.95555	.04232	.02723	-.01509
		2823	2.277					
732.7	850.62			.012	.95541	.01165	.02833	.01668
		2892	2.278					
734.7	853.51			-.072	.95050	-.06847	-.08036	-.01188
		2600	2.195					
736.7	856.11			.001	.95050	.00129	.00114	-.00015
		2614	2.189					
738.7	858.72			.009	.95043	.00858	.01197	.00339
		2604	2.238					
740.7	861.33			.001	.95043	.00063	.00518	.00455
		2605	2.240					
742.7	863.93			.031	.94953	.02911	.03806	.00895
		2692	2.304					
744.7	866.62			-.023	.94902	-.02215	-.04529	-.02314
		2624	2.256					
746.7	869.25			.038	.94763	.03627	.05455	.01829
		2763	2.313					
748.7	872.01			-.037	.94634	-.03501	-.04875	-.01374
		2647	2.242					
750.7	874.66			-.007	.94630	-.00629	.00173	.00802
		2586	2.265					
752.7	877.24			-.017	.94603	-.01577	-.02428	-.00851
		2525	2.244					
754.7	879.77			.070	.94141	.06615	.07578	.00963
		2784	2.340					
756.7	882.55			-.053	.93880	-.04953	-.04472	.00481
		2572	2.280					
758.7	885.12			.003	.93879	.00326	.00909	.00583
		2593	2.278					
760.7	887.72			-.018	.93848	-.01710	-.04715	-.03006
		2551	2.232					
762.7	890.27			.045	.93658	.04217	.05414	.01198
		2688	2.318					
764.7	892.96			-.014	.93641	-.01287	-.00107	.01180
		2636	2.299					
766.7	895.59			-.015	.93620	-.01383	-.01656	-.00273
		2582	2.280					
768.7	898.17			-.042	.93458	-.03902	-.03798	.00105
		2465	2.197					
770.7	900.64			.028	.93384	.02630	.01560	-.01069
		2537	2.258					
772.7	903.17			.019	.93350	.01770	.03143	.01373
		2604	2.284					
774.7	905.78			.018	.93321	.01663	-.00278	-.01942

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
		2678	2.302					
776.7	908.46			.022	.93275	.02070	.02923	.00853
		2749	2.344					
778.7	911.21			-.029	.93198	-.02665	-.03549	-.00884
		2666	2.283					
780.7	913.87			.042	.93035	.03908	.07054	.03146
		2822	2.345					
782.7	916.69			-.021	.92995	-.01931	-.04510	-.02579
		2747	2.311					
784.7	919.44			-.034	.92885	-.03190	-.03959	-.00763
		2601	2.280					
786.7	922.04			.006	.92881	.00582	.00891	.00309
		2614	2.297					
788.7	924.66			-.013	.92866	-.01196	.00170	.01366
		2562	2.283					
790.7	927.22			.022	.92823	.02011	.03709	.01699
		2653	2.303					
792.7	929.87			-.011	.92811	-.01045	-.03447	-.02402
		2608	2.291					
794.7	932.48			.013	.92796	.01190	.01039	-.00151
		2668	2.297					
796.7	935.15			.011	.92784	.01026	.01362	.00336
		2695	2.326					
798.7	937.84			-.006	.92781	-.00516	-.00581	-.00065
		2653	2.336					
800.7	940.50			.005	.92779	.00432	.00886	.00454
		2684	2.330					
802.7	943.18			-.004	.92778	-.00339	-.01703	-.01364
		2697	2.303					
804.7	945.88			-.034	.92671	-.03152	-.00886	.02266
		2574	2.254					
806.7	948.45			.064	.92295	.05905	.04725	-.01179
		2801	2.353					
808.7	951.25			-.033	.92194	-.03047	-.04258	-.01211
		2686	2.297					
810.7	953.94			-.048	.91978	-.04467	-.02888	.01579
		2515	2.227					
812.7	956.45			.010	.91968	.00940	.01305	.00366
		2528	2.261					
814.7	958.98			.067	.91558	.06144	.06561	.00417
		2787	2.344					
816.7	961.77			.038	.91422	.03520	.02679	-.00841
		2982	2.366					
818.7	964.75			.009	.91414	.00848	-.01560	-.02407
		3036	2.367					
820.7	967.78			-.034	.91311	-.03081	-.01543	.01538
		2870	2.341					
822.7	970.66			.001	.91311	.00079	.00954	.00774
		2881	2.336					

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
824.7	973.54			-.022	.91265	-.02039	-.02628	-.00589
		2768	2.325					
826.7	976.30			-.026	.91204	-.02360	-.01643	.00717
		2635	2.320					
828.7	978.94			.008	.91199	.00698	-.00447	-.01145
		2680	2.316					
830.7	981.62			.049	.90983	.04435	.06825	.02390
		2895	2.363					
832.7	984.51			-.042	.90820	-.03846	-.06309	-.02463
		2730	2.303					
834.7	987.24			.043	.90649	.03943	.06017	.02075
		2906	2.359					
836.7	990.15			-.037	.90524	-.03368	-.06012	-.02645
		2763	2.304					
838.7	992.91			.034	.90421	.03056	.05508	.02452
		2888	2.358					
840.7	995.80			-.039	.90283	-.03535	-.04250	-.00715
		2736	2.302					
842.7	998.54			-.032	.90190	-.02898	-.03552	-.00654
		2572	2.296					
844.7	1001.11			.018	.90159	.01656	.02370	.00714
		2638	2.323					
846.7	1003.75			.004	.90158	.00389	-.01365	-.01754
		2670	2.315					
848.7	1006.42			.018	.90130	.01582	.04582	.02999
		2743	2.334					
850.7	1009.16			-.028	.90058	-.02548	-.05031	-.02483
		2628	2.302					
852.7	1011.79			.019	.90025	.01729	.03369	.01639
		2710	2.320					
854.7	1014.50			-.026	.89963	-.02350	-.03175	-.00825
		2584	2.309					
856.7	1017.08			-.001	.89963	-.00125	.01877	.02002
		2589	2.298					
858.7	1019.67			.010	.89954	.00919	-.01988	-.02907
		2640	2.301					
860.7	1022.31			.001	.89954	.00095	-.01289	-.01384
		2648	2.298					
862.7	1024.96			.001	.89954	.00050	.01822	.01773
		2652	2.297					
864.7	1027.61			.055	.89683	.04936	.07311	.02375
		2893	2.350					
866.7	1030.50			-.003	.89682	-.00260	-.02132	-.01873
		2865	2.359					
868.7	1033.37			-.012	.89669	-.01059	-.02052	-.00993
		2816	2.345					
870.7	1036.19			.026	.89609	.02326	.02026	-.00300
		2925	2.378					
872.7	1039.11			-.013	.89594	-.01170	-.00433	.00737

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
		2868	2.362					
874.7	1041.98			.004	.89592	.00357	.02300	.01943
		2871	2.379					
876.7	1044.85			-.035	.89482	-.03145	-.06703	-.03559
		2726	2.335					
878.7	1047.58			-.005	.89480	-.00441	.02589	.03030
		2701	2.333					
880.7	1050.28			-.015	.89460	-.01339	-.01947	-.00608
		2643	2.315					
882.7	1052.92			.024	.89410	.02103	.02539	.00436
		2745	2.336					
884.7	1055.66			-.008	.89404	-.00742	-.02470	-.01728
		2711	2.326					
886.7	1058.38			.017	.89379	.01501	.02249	.00748
		2780	2.346					
888.7	1061.16			-.002	.89379	-.00187	.01702	.01889
		2772	2.343					
890.7	1063.93			.020	.89343	.01773	-.00059	-.01832
		2879	2.348					
892.7	1066.81			.003	.89343	.00232	-.00058	-.00291
		2891	2.350					
894.7	1069.70			-.014	.89325	-.01254	-.02412	-.01158
		2815	2.347					
896.7	1072.51			-.030	.89244	-.02696	-.00500	.02197
		2673	2.326					
898.7	1075.18			.010	.89234	.00934	.02751	.01818
		2705	2.348					
900.7	1077.89			.006	.89231	.00528	-.03224	-.03752
		2725	2.358					
902.7	1080.61			.003	.89230	.00312	.02385	.02073
		2743	2.358					
904.7	1083.36			-.016	.89208	-.01397	-.02777	-.01380
		2681	2.339					
906.7	1086.04			.003	.89207	.00291	.02692	.02400
		2709	2.330					
908.7	1088.75			.001	.89207	.00114	-.01166	-.01279
		2700	2.344					
910.7	1091.45			-.002	.89207	-.00145	-.00500	-.00355
		2715	2.323					
912.7	1094.16			-.005	.89204	-.00453	-.00975	-.00522
		2683	2.327					
914.7	1096.85			-.014	.89187	-.01232	.00027	.01259
		2629	2.310					
916.7	1099.47			.008	.89182	.00716	-.01683	-.02399
		2655	2.325					
918.7	1102.13			-.005	.89180	-.00424	-.00582	-.00158
		2642	2.314					
920.7	1104.77			.006	.89176	.00535	.01885	.01350
		2667	2.320					

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
922.7	1107.44			.008	.89171	.00677	.01815	.01138
		2684	2.341					
924.7	1110.12			-.002	.89171	-.00196	.00095	.00291
		2670	2.343					
926.7	1112.79			.004	.89169	.00400	-.01208	-.01608
		2679	2.356					
928.7	1115.47			.025	.89113	.02239	.03339	.01100
		2802	2.368					
930.7	1118.27			-.017	.89087	-.01505	-.03158	-.01653
		2698	2.378					
932.7	1120.97			-.008	.89081	-.00749	.01248	.01997
		2684	2.350					
934.7	1123.65			.045	.88900	.04019	.00556	-.03463
		2898	2.383					
936.7	1126.55			-.043	.88738	-.03798	-.01520	.02278
		2695	2.352					
938.7	1129.25			.020	.88701	.01793	.02319	.00526
		2764	2.388					
940.7	1132.01			.010	.88692	.00907	.00950	.00043
		2828	2.382					
942.7	1134.84			-.021	.88653	-.01864	-.02276	-.00412
		2731	2.365					
944.7	1137.57			.015	.88633	.01320	.00796	-.00524
		2788	2.387					
946.7	1140.36			-.018	.88605	-.01573	-.00514	.01059
		2701	2.378					
948.7	1143.06			.049	.88394	.04329	.04648	.00319
		2954	2.397					
950.7	1146.01			.024	.88341	.02160	.01860	-.00300
		3075	2.418					
952.7	1149.09			-.050	.88124	-.04384	-.06504	-.02120
		2802	2.403					
954.7	1151.89			.018	.88096	.01556	.04132	.02576
		2900	2.405					
956.7	1154.79			-.023	.88048	-.02053	-.03579	-.01526
		2802	2.376					
958.7	1157.59			-.013	.88034	-.01101	.00496	.01597
		2730	2.378					
960.7	1160.32			-.011	.88024	-.00950	-.02739	-.01789
		2688	2.364					
962.7	1163.01			.013	.88010	.01129	.03067	.01938
		2744	2.376					
964.7	1165.75			0	.88010	.00003	-.00647	-.00651
		2749	2.372					
966.7	1168.50			.023	.87964	.02002	.02260	.00259
		2844	2.399					
968.7	1171.35			.026	.87906	.02254	.00270	-.01984
		2997	2.397					
970.7	1174.34			-.027	.87842	-.02377	-.02084	.00293

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
		2859	2.380					
972.7	1177.20			.002	.87842	.00155	.01707	.01552
		2854	2.392					
974.7	1180.06			-.027	.87776	-.02414	-.03100	-.00686
		2717	2.379					
976.7	1182.77			.018	.87746	.01617	.01238	-.00379
		2802	2.393					
978.7	1185.58			-.017	.87721	-.01476	-.00699	.00777
		2727	2.378					
980.7	1188.30			.011	.87710	.00985	.01444	.00459
		2785	2.381					
982.7	1191.09			-.023	.87664	-.01996	-.01384	.00612
		2679	2.365					
984.7	1193.77			.018	.87637	.01565	.00844	-.00720
		2754	2.384					
986.7	1196.52			.001	.87636	.00114	-.01381	-.01495
		2764	2.382					
988.7	1199.28			.007	.87633	.00580	.00750	.00169
		2788	2.393					
990.7	1202.07			.012	.87620	.01035	.02150	.01115
		2856	2.392					
992.7	1204.93			-.045	.87446	-.03905	-.06048	-.02143
		2692	2.321					
994.7	1207.62			.042	.87290	.03702	.05618	.01916
		2844	2.391					
996.7	1210.47			.001	.87290	.00052	-.00818	-.00870
		2851	2.388					
998.7	1213.32			-.045	.87115	-.03902	-.01028	.02874
		2655	2.345					
1000.7	1215.97			.027	.87052	.02345	.01230	-.01116
		2776	2.367					
1002.7	1218.75			-.024	.87003	-.02070	-.05092	-.03022
		2665	2.351					
1004.7	1221.41			.033	.86909	.02857	.04758	.01900
		2812	2.379					
1006.7	1224.22			-.035	.86801	-.03061	-.04721	-.01660
		2658	2.346					
1008.7	1226.88			-.005	.86799	-.00401	.02216	.02617
		2648	2.333					
1010.7	1229.53			-.008	.86794	-.00655	-.03591	-.02936
		2613	2.329					
1012.7	1232.14			.012	.86781	.01061	.03058	.01997
		2650	2.353					
1014.7	1234.79			.010	.86773	.00845	.01833	.00988
		2711	2.346					
1016.7	1237.50			-.011	.86763	-.00947	-.02113	-.01166
		2653	2.345					
1018.7	1240.16			.015	.86742	.01340	.01946	.00606
		2708	2.369					

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
1020.7	1242.87			.006	.86739	.00524	-.01548	-.02072
		2758	2.355					
1022.7	1245.62			.028	.86672	.02413	.04377	.01965
		2878	2.386					
1024.7	1248.50			-.043	.86513	-.03714	-.04645	-.00931
		2676	2.355					
1026.7	1251.18			.001	.86512	.00095	-.00317	-.00412
		2661	2.373					
1028.7	1253.84			-.002	.86512	-.00210	-.00824	-.00614
		2669	2.355					
1030.7	1256.51			.022	.86472	.01864	.05759	.03895
		2756	2.381					
1032.7	1259.26			-.026	.86413	-.02263	-.06365	-.04103
		2650	2.350					
1034.7	1261.91			.103	.85494	.08909	.12363	.03454
		3131	2.446					
1036.7	1265.05			-.036	.85385	-.03057	-.06830	-.03774
		2985	2.389					
1038.7	1268.03			-.065	.85027	-.05525	-.01851	.03674
		2664	2.351					
1040.7	1270.69			-.017	.85004	-.01407	-.02717	-.01310
		2579	2.350					
1042.7	1273.27			.025	.84950	.02145	.00769	-.01376
		2684	2.374					
1044.7	1275.96			.061	.84637	.05154	.06914	.01759
		2978	2.417					
1046.7	1278.93			-.013	.84623	-.01104	-.02737	-.01683
		2921	2.400					
1048.7	1281.86			-.060	.84316	-.05092	-.02732	.02360
		2649	2.346					
1050.7	1284.51			-.016	.84296	-.01326	-.03720	-.02394
		2582	2.333					
1052.7	1287.09			.005	.84294	.00385	.01273	.00888
		2616	2.324					
1054.7	1289.70			.038	.84170	.03231	.03600	.00369
		2758	2.379					
1056.7	1292.46			.015	.84151	.01272	.02745	.01472
		2825	2.394					
1058.7	1295.29			.029	.84081	.02426	.00918	-.01508
		2955	2.425					
1060.7	1298.24			.009	.84073	.00797	-.00298	-.01095
		3030	2.410					
1062.7	1301.27			.069	.83672	.05805	.07056	.01251
		3486	2.406					
1064.7	1304.76			-.082	.83112	-.06846	-.08047	-.01202
		2992	2.379					
1066.7	1307.75			-.007	.83109	-.00563	-.00625	-.00062
		2912	2.411					
1068.7	1310.66			-.025	.83056	-.02081	-.00937	.01144

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
		2793	2.391					
1070.7	1313.46			.031	.82977	.02574	.04070	.01496
		2936	2.420					
1072.7	1316.39			-.048	.82785	-.03991	-.03927	.00064
		2723	2.370					
1074.7	1319.11			.019	.82755	.01576	-.00932	-.02508
		2835	2.365					
1076.7	1321.95			.078	.82256	.06428	.06755	.00327
		3238	2.420					
1078.7	1325.19			-.063	.81927	-.05201	-.06122	-.00921
		2881	2.396					
1080.7	1328.07			-.066	.81568	-.05424	-.02269	.03154
		2624	2.303					
1082.7	1330.69			.027	.81508	.02198	-.00401	-.02599
		2692	2.370					
1084.7	1333.38			.042	.81367	.03399	.05531	.02132
		2923	2.372					
1086.7	1336.31			-.023	.81325	-.01844	-.05117	-.03273
		2773	2.390					
1088.7	1339.08			.029	.81259	.02320	.02736	.00416
		2893	2.425					
1090.7	1341.97			.010	.81250	.00835	.00303	-.00532
		3034	2.361					
1092.7	1345.01			.003	.81250	.00210	.02837	.02627
		3003	2.397					
1094.7	1348.01			-.039	.81127	-.03151	-.01489	.01662
		2780	2.396					
1096.7	1350.79			-.028	.81062	-.02295	-.03334	-.01039
		2649	2.376					
1098.7	1353.44			.137	.79548	.11081	.09666	-.01416
		3416	2.426					
1100.7	1356.85			-.125	.78306	-.09937	-.13181	-.03244
		2734	2.358					
1102.7	1359.59			-.040	.78183	-.03103	.03649	.06752
		2545	2.340					
1104.7	1362.13			.011	.78174	.00851	-.03124	-.03975
		2596	2.344					
1106.7	1364.73			-.002	.78174	-.00140	.00692	.00833
		2582	2.349					
1108.7	1367.31			-.022	.78138	-.01684	-.04000	-.02316
		2484	2.339					
1110.7	1369.80			.058	.77876	.04524	.06853	.02329
		2724	2.395					
1112.7	1372.52			-.013	.77863	-.00983	-.01590	-.00603
		2679	2.374					
1114.7	1375.20			.004	.77862	.00340	-.00352	-.00692
		2688	2.387					
1116.7	1377.89			-.006	.77859	-.00467	-.00772	-.00305
		2678	2.367					

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
1118.7	1380.57			-.010	.77851	-.00789	.00529	.01317
		2660	2.335					
1120.7	1383.23			-.016	.77831	-.01253	-.02383	-.01131
		2574	2.337					
1122.7	1385.80			.009	.77825	.00675	-.00179	-.00854
		2619	2.337					
1124.7	1388.42			-.002	.77825	-.00150	.02191	.02342
		2609	2.337					
1126.7	1391.03			.035	.77732	.02689	.03226	.00537
		2763	2.365					
1128.7	1393.79			.009	.77725	.00715	-.00255	-.00970
		2811	2.367					
1130.7	1396.60			-.028	.77664	-.02184	-.05795	-.03611
		2696	2.334					
1132.7	1399.30			.030	.77595	.02318	.05992	.03674
		2844	2.349					
1134.7	1402.14			-.037	.77490	-.02852	-.03461	-.00609
		2680	2.315					
1136.7	1404.82			.018	.77465	.01388	.02816	.01428
		2761	2.330					
1138.7	1407.58			-.020	.77433	-.01570	-.04567	-.02998
		2694	2.292					
1140.7	1410.28			.008	.77429	.00594	.00305	-.00290
		2737	2.291					
1142.7	1413.01			-.052	.77218	-.04035	-.01914	.02121
		2537	2.227					
1144.7	1415.55			.073	.76801	.05673	.04677	-.00996
		2804	2.335					
1146.7	1418.35			-.042	.76667	-.03210	-.00930	.02280
		2655	2.268					
1148.7	1421.01			.002	.76667	.00122	-.00548	-.00670
		2718	2.223					
1150.7	1423.73			-.014	.76651	-.01110	-.00043	.01068
		2697	2.176					
1152.7	1426.42			.020	.76619	.01562	-.01080	-.02642
		2674	2.286					
1154.7	1429.10			.020	.76588	.01539	.01356	-.00183
		2763	2.303					
1156.7	1431.86			-.040	.76468	-.03040	-.02567	.00474
		2609	2.252					
1158.7	1434.47			.055	.76236	.04212	.03487	-.00725
		2854	2.299					
1160.7	1437.32			-.029	.76169	-.02249	-.02168	.00081
		2742	2.256					
1162.7	1440.07			-.029	.76107	-.02182	-.01083	.01100
		2601	2.245					
1164.7	1442.67			-.006	.76104	-.00421	-.01166	-.00745
		2569	2.249					
1166.7	1445.24			-.021	.76071	-.01601	-.01331	.00270

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
		2488	2.226					
1168.7	1447.72			.010	.76063	.00757	.03001	.02244
		2502	2.258					
1170.7	1450.23			-.009	.76057	-.00693	-.02085	-.01391
		2456	2.259					
1172.7	1452.68			.074	.75635	.05662	.04477	-.01185
		2728	2.360					
1174.7	1455.41			-.013	.75622	-.01011	-.02281	-.01271
		2701	2.322					
1176.7	1458.11			.035	.75527	.02683	.01359	-.01324
		2821	2.387					
1178.7	1460.93			-.017	.75504	-.01302	.05631	.06933
		2802	2.321					
1180.7	1463.73			.010	.75496	.00769	-.05115	-.05884
		2829	2.347					
1182.7	1466.56			.005	.75495	.00346	.04508	.04162
		2847	2.352					
1184.7	1469.41			.004	.75494	.00289	-.02907	-.03196
		2864	2.357					
1186.7	1472.27			.025	.75446	.01903	.05234	.03331
		2961	2.398					
1188.7	1475.23			.015	.75430	.01101	-.01659	-.02760
		3007	2.431					
1190.7	1478.24			.036	.75330	.02740	.06126	.03386
		3155	2.492					
1192.7	1481.40			.038	.75223	.02834	-.00545	-.03379
		3333	2.543					
1194.7	1484.73			.098	.74502	.07364	.11628	.04263
		3908	2.639					
1196.7	1488.64			-.193	.71739	-.14350	-.16561	-.02211
		3057	2.284					
1198.7	1491.69			-.066	.71424	-.04754	-.04724	.00030
		2801	2.183					
1200.7	1494.50			-.042	.71298	-.02989	-.04330	-.01392
		2584	2.176					
1202.7	1497.08			-.101	.70567	-.07220	-.08132	-.00912
		2282	2.011					
1204.7	1499.36			.227	.66929	.16024	.21170	.05146
		3085	2.362					
1206.7	1502.45			-.010	.66922	-.00684	-.06634	-.05950
		3149	2.267					
1208.7	1505.60			-.050	.66754	-.03347	.01942	.05289
		2993	2.158					
1210.7	1508.59			-.028	.66704	-.01837	-.06496	-.04658
		2892	2.113					
1212.7	1511.48			-.005	.66702	-.00328	.00377	.00705
		2829	2.140					
1214.7	1514.31			.026	.66658	.01711	.00698	-.01014
		2899	2.198					

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
1216.7	1517.21			.006	.66656	.00410	.00174	-.00236
1218.7	1520.16	2947	2.189	.032	.66587	.02130	.06766	.04636
1220.7	1523.23	3076	2.236	.025	.66545	.01686	-.00515	-.02200
1222.7	1526.45	3217	2.248	.009	.66540	.00583	-.00685	-.01267
1224.7	1529.55	3102	2.373	-.067	.66243	-.04443	-.02850	.01593
1226.7	1532.48	2927	2.200	.058	.66018	.03857	.03709	-.00149
1228.7	1535.52	3040	2.380	-.053	.65832	-.03510	-.03502	.00008
1230.7	1538.39	2873	2.264	-.001	.65832	-.00085	-.00334	-.00249
1232.7	1541.31	2917	2.225	.005	.65830	.00314	-.00778	-.01092
1234.7	1544.24	2930	2.236	.079	.65424	.05171	.05721	.00550
1236.7	1547.46	3226	2.377	.021	.65396	.01349	-.01204	-.02553
1238.7	1550.69	3228	2.475	-.111	.64592	-.07251	-.02636	.04614
1240.7	1553.60	2912	2.197	.117	.63716	.07525	.06817	-.00709
1242.7	1556.95	3341	2.419	-.012	.63706	-.00762	.01114	.01877
1244.7	1560.24	3291	2.398	-.052	.63533	-.03326	-.00467	.02859
1246.7	1563.30	3064	2.320	-.030	.63475	-.01912	-.09728	-.07816
1248.7	1566.23	2927	2.287	.100	.62844	.06332	.06290	-.00042
1250.7	1569.60	3373	2.424	-.041	.62740	-.02558	-.01995	.00563
1252.7	1572.76	3163	2.383	.015	.62725	.00965	.05713	.04748
1254.7	1576.02	3259	2.385	.009	.62720	.00544	.03596	.03053
1256.7	1579.31	3285	2.408	-.096	.62136	-.06050	-.11442	-.05392
1258.7	1582.26	2954	2.206	-.025	.62098	-.01541	-.01818	-.00278
1260.7	1585.11	2847	2.178	.041	.61991	.02577	.00714	-.01863
1262.7	1588.09	2978	2.263	.033	.61923	.02065	.06447	.04382
1264.7	1591.22	3134	2.298	.024	.61887	.01488	-.00778	-.02266

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
		3149	2.400					
1266.8	1594.37			-.139	.60683	-.08632	-.06098	.02533
		2761	2.067					
1268.8	1597.13			-.054	.60509	-.03247	-.06300	-.03053
		2691	1.906					
1270.8	1599.82			.178	.58595	.10762	.09399	-.01363
		3127	2.349					
1272.8	1602.95			.027	.58552	.01590	-.00933	-.02522
		3310	2.343					
1274.8	1606.26			-.076	.58214	-.04448	.00615	.05063
		3036	2.194					
1276.8	1609.29			.072	.57908	.04217	.02826	-.01391
		3300	2.334					
1278.8	1612.59			.015	.57895	.00874	.04018	.03144
		3345	2.373					
1280.8	1615.94			.020	.57871	.01179	.00490	-.00689
		3436	2.406					
1282.8	1619.37			-.093	.57370	-.05387	-.09092	-.03705
		3041	2.255					
1284.8	1622.42			-.003	.57369	-.00194	.04931	.05125
		3003	2.269					
1286.8	1625.42			.092	.56886	.05266	-.02411	-.07677
		3308	2.476					
1288.8	1628.73			-.033	.56826	-.01851	.04939	.06790
		3029	2.534					
1290.8	1631.76			-.021	.56801	-.01182	-.04057	-.02875
		3033	2.427					
1292.8	1634.79			.059	.56603	.03354	.02538	-.00816
		3503	2.365					
1294.8	1638.29			-.012	.56595	-.00667	.00808	.01475
		3458	2.340					
1296.8	1641.75			.077	.56259	.04362	.07779	.03417
		3913	2.414					
1298.8	1645.66			-.078	.55913	-.04402	-.00855	.03554
		3375	2.391					
1300.8	1649.04			-.001	.55913	-.00063	-.00873	-.00809
		3382	2.381					
1302.8	1652.42			.015	.55900	.00847	-.03235	-.04082
		3506	2.367					
1304.8	1655.93			-.030	.55849	-.01694	-.02793	-.01099
		3396	2.301					
1306.8	1659.32			-.006	.55847	-.00356	.01686	.02041
		3316	2.326					
1308.8	1662.64			-.035	.55777	-.01970	-.09883	-.07913
		3184	2.258					
1310.8	1665.82			.011	.55770	.00621	.11111	.10490
		3197	2.299					
1312.8	1669.02			.051	.55627	.02830	.00107	-.02724
		3383	2.405					

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
1314.8	1672.40			-.056	.55453	-.03109	-.02335	.00774
		3169	2.295					
1316.8	1675.57			-.006	.55451	-.00326	-.03641	-.03315
		3148	2.283					
1318.8	1678.72			.009	.55447	.00489	-.04541	-.05030
		3166	2.311					
1320.8	1681.89			.082	.55073	.04553	.10903	.06350
		3526	2.446					
1322.8	1685.41			-.025	.55038	-.01374	.00083	.01456
		3401	2.413					
1324.8	1688.81			-.157	.53674	-.08666	-.09678	-.01012
		2804	2.130					
1326.8	1691.62			.159	.52309	.08558	.05802	-.02756
		3389	2.431					
1328.8	1695.01			-.154	.51064	-.08071	-.07574	.00497
		2836	2.128					
1330.8	1697.84			.081	.50732	.04118	.04090	-.00028
		3046	2.329					
1332.8	1700.89			.047	.50618	.02409	-.00748	-.03157
		3283	2.377					
1334.8	1704.17			-.059	.50443	-.02978	-.01657	.01320
		3089	2.245					
1336.8	1707.26			.047	.50333	.02354	.03524	.01170
		3286	2.317					
1338.8	1710.55			-.048	.50216	-.02426	.01003	.03429
		3115	2.220					
1340.8	1713.66			.055	.50066	.02739	.00994	-.01745
		3234	2.385					
1342.8	1716.90			.067	.49840	.03367	-.00930	-.04297
		3577	2.467					
1344.8	1720.47			-.122	.49094	-.06099	.00852	.06951
		3058	2.257					
1346.8	1723.53			.070	.48854	.03428	.01717	-.01711
		3364	2.359					
1348.8	1726.90			-.005	.48853	-.00241	-.08349	-.08108
		3316	2.370					
1350.8	1730.21			-.037	.48785	-.01828	.07112	.08939
		3214	2.268					
1352.8	1733.43			.019	.48766	.00945	-.01293	-.02237
		3254	2.329					
1354.8	1736.68			.085	.48418	.04124	.08342	.04219
		3625	2.478					
1356.8	1740.31			-.051	.48294	-.02448	-.03673	-.01225
		3358	2.417					
1358.8	1743.66			-.032	.48246	-.01523	-.06938	-.05415
		3273	2.328					
1360.8	1746.94			.003	.48246	.00133	.12412	.12279
		3285	2.333					
1362.8	1750.22			.036	.48184	.01725	-.11862	-.13588

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
		3463	2.377					
1364.8	1753.68			-.008	.48181	-.00381	.06522	.06903
		3427	2.364					
1366.8	1757.11			-.001	.48181	-.00041	-.06319	-.06277
		3438	2.352					
1368.8	1760.55			-.034	.48126	-.01628	.05570	.07198
		3293	2.295					
1370.8	1763.84			.029	.48085	.01397	.03073	.01676
		3436	2.332					
1372.8	1767.28			.005	.48084	.00224	-.04331	-.04556
		3471	2.329					
1374.8	1770.75			.002	.48084	.00078	.01213	.01135
		3487	2.326					
1376.8	1774.24			-.037	.48017	-.01792	-.06890	-.05098
		3281	2.295					
1378.8	1777.52			.128	.47236	.06127	.12174	.06047
		4005	2.430					
1380.8	1781.52			.003	.47235	.00119	-.03777	-.03895
		4020	2.433					
1382.8	1785.54			-.057	.47084	-.02672	-.02131	.00541
		3703	2.358					
1384.8	1789.24			-.026	.47053	-.01217	.04344	.05560
		3514	2.360					
1386.8	1792.76			-.010	.47047	-.00494	-.00944	-.00450
		3188	2.548					
1388.8	1795.95			-.041	.46969	-.01919	-.01567	.00352
		3228	2.318					
1390.8	1799.17			.004	.46968	.00199	-.03180	-.03379
		3076	2.453					
1392.8	1802.25			.026	.46937	.01209	-.01493	-.02701
		3241	2.452					
1394.8	1805.49			.017	.46924	.00795	.05501	.04706
		3304	2.488					
1396.8	1808.80			-.008	.46921	-.00367	-.01443	-.01076
		3249	2.491					
1398.8	1812.04			-.004	.46920	-.00191	-.01929	-.01739
		3224	2.490					
1400.8	1815.27			-.003	.46920	-.00157	-.01739	-.01582
		3202	2.490					
1402.8	1818.47			-.006	.46918	-.00283	-.03213	-.02930
		3164	2.490					
1404.8	1821.63			-.001	.46918	-.00064	.08430	.08494
		3155	2.490					
1406.8	1824.79			0	.46918	0	-.01223	-.01223
		3155	2.490					
1408.8	1827.95			0	.46918	0	-.03838	-.03838
		3155	2.490					
1410.8	1831.10			0	0	0	.02284	.02284

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
1412.8							-.01044	-.01044
1414.3							-.00151	-.00151
1416.8							-.04935	-.04935
1418.8							.08746	.08746
1420.8							-.04359	-.04359
1422.8							.00186	.00186
1424.8							-.01017	-.01017
1426.8							.01721	.01721
1428.8							.02915	.02915
1430.8							-.05074	-.05074
1432.8							.02208	.02208
1434.8							-.03506	-.03506
1436.8							-.00764	-.00764
1438.8							.03286	.03286
1440.8							-.04789	-.04789
1442.8							.04345	.04345
1444.8							.01929	.01929
1446.8							.00519	.00519
1448.8							-.02293	-.02293
1450.8							-.06455	-.06455
1452.8							.06130	.06130
1454.8							.06331	.06331
1456.8							-.06470	-.06470
1458.8							.01711	.01711
1460.8							-.00556	-.00556

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
1462.8							.01913	.01913
1464.8							-.03046	-.03046
1466.8							.00674	.00674
1468.8							-.01833	-.01833
1470.8							.04163	.04163
1472.8							.00569	.00569
1474.8							-.02193	-.02193
1476.8							-.01443	-.01443
1478.8							.01480	.01480
1480.8							-.01045	-.01045
1482.8							-.01137	-.01137
1484.8							-.04486	-.04486
1486.8							.07807	.07807
1488.8							.04471	.04471
1490.8							-.08314	-.08314
1492.8							.00286	.00286
1494.8							.01085	.01085
1496.8							.01190	.01190
1498.8							-.02743	-.02743
1500.8							.02624	.02624
1502.8							.00756	.00756
1504.8							.00110	.00110
1506.8							-.02451	-.02451
1508.8							-.02414	-.02414

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
1510.8							.02788	.02788
1512.8							.00116	.00116
1514.8							.02053	.02053
1516.8							-.00511	-.00511
1518.8							-.00173	-.00173
1520.8							.04096	.04096
1522.8							-.04434	-.04434
1524.8							.00157	.00157
1526.8							-.02324	-.02324
1528.8							.03956	.03956
1530.8							.00127	.00127
1532.8							-.07867	-.07867
1534.8							.08146	.08146
1536.8							-.04180	-.04180
1538.8							.06130	.06130
1540.8							-.06352	-.06352
1542.8							.00062	.00062
1544.8							.00886	.00886
1546.8							.02180	.02180
1548.8							-.04409	-.04409
1550.8							.02569	.02569
1552.8							-.01275	-.01275
1554.8							.05896	.05896
1556.8							-.01927	-.01927
1558.8							-.03188	-.03188

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
1560.8							.03029	.03029
1562.8							-.06431	-.06431
1564.8							.04968	.04968
1566.8							-.04502	-.04502
1568.8							.05085	.05085
1570.8							-.00702	-.00702
1572.8							-.07358	-.07358
1574.8							.05520	.05520
1576.8							-.01274	-.01274
1578.8							.06178	.06178
1580.8							-.01496	-.01496
1582.8							.00817	.00817
1584.8							-.03683	-.03683
1586.8							.01851	.01851
1588.8							-.00916	-.00916
1590.8							-.01474	-.01474
1592.8							-.00394	-.00394
1594.8							-.01079	-.01079
1596.8							.09526	.09526
1598.8							-.08540	-.08540
1600.8							-.00419	-.00419
1602.8							.02233	.02233
1604.8							-.00667	-.00667
1606.8							-.00524	-.00524

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
1608.8							-.00927	-.00927
1610.8							.03435	.03435
1612.8							-.02132	-.02132
1614.8							.06766	.06766
1616.8							-.07291	-.07291
1618.8							.03822	.03822
1620.8							-.01750	-.01750
1622.8							-.00375	-.00375
1624.8							.01461	.01461
1626.8							-.04387	-.04387
1628.8							.02457	.02457
1630.8							-.00235	-.00235
1632.8							-.01300	-.01300
1634.8							-.02785	-.02785
1636.8							.09836	.09836
1638.8							-.05398	-.05398
1640.8							-.03668	-.03668
1642.8							-.00319	-.00319
1644.8							.06325	.06325
1646.8							.00476	.00476
1648.8							-.02026	-.02026
1650.8							-.01803	-.01803
1652.8							.03945	.03945
1654.8							-.03967	-.03967
1656.8							-.04008	-.04008

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
1658.8							.05401	.05401
1660.8							.01536	.01536
1662.8							-.01417	-.01417
1664.8							-.03113	-.03113
1666.8							.05544	.05544
1668.8							-.02289	-.02289
1670.8							-.00418	-.00418
1672.8							.01434	.01434
1674.8							-.02025	-.02025
1676.8							.00123	.00123
1678.8							-.01174	-.01174
1680.8							.03962	.03962
1682.8							-.02024	-.02024
1684.8							.00148	.00148
1686.8							-.00332	-.00332
1688.8							.00035	.00035
1690.8							-.03301	-.03301
1692.8							-.01923	-.01923
1694.8							.09046	.09046
1696.8							-.06881	-.06881
1698.8							.03294	.03294
1700.8							-.04784	-.04784
1702.8							.07834	.07834
1704.8							-.02078	-.02078

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
1706.8							-.02967	-.02967
1708.8							.03426	.03426
1710.8							-.02252	-.02252
1712.8							-.00436	-.00436
1714.8							.05268	.05268
1716.8							.01017	.01017
1718.8							-.04793	-.04793
1720.8							.00087	.00087
1722.8							-.07004	-.07004
1724.8							.09142	.09142
1726.8							-.02895	-.02895
1728.8							.02587	.02587
1730.8							.01331	.01331
1732.8							-.08861	-.08861
1734.8							.04033	.04033
1736.8							-.04759	-.04759
1738.8							.05651	.05651
1740.8							.00389	.00389
1742.8							.02085	.02085
1744.8							-.00615	-.00615
1746.8							-.03402	-.03402
1748.8							-.00512	-.00512
1750.8							.00703	.00703
1752.8							-.01594	-.01594
1754.8							.00447	.00447

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
1756.8							.02784	.02784
1758.8							.01046	.01046
1760.8							-.02097	-.02097
1762.8							-.00304	-.00304
1764.8							.02240	.02240
1766.8							-.00016	-.00016
1768.8							-.01047	-.01047
1770.8							-.00770	-.00770
1772.8							-.02200	-.02200
1774.8							.10118	.10118
1776.8							-.06988	-.06988

PE907043

This is an enclosure indicator page.
The enclosure PE907043 is enclosed within the container PE907042 at this location in this document.

The enclosure PE907043 has the following characteristics:

ITEM_BARCODE	= PE907043
CONTAINER_BARCODE	= PE907042
NAME	= Seismic Calibration Log
BASIN	= GIPPSLAND
PERMIT	= VIC/L10
TYPE	= WELL
SUBTYPE	= VELOCITY_CHART
DESCRIPTION	= Seismic Calibration Log (enclosure from attachment to WCR--Seismic Calibration and Geogram Processing Report) for Sweetlips-1
REMARKS	=
DATE_CREATED	= 14/09/89
DATE_RECEIVED	= 26/02/90
W_NO	= W1003
WELL_NAME	= SWEETLIPS-1
CONTRACTOR	= SCHLUMBERGER
CLIENT_OP_CO	= ESSO AUSTRALIA LTD

(Inserted by DNRE - Vic Govt Mines Dept)

PE907044

This is an enclosure indicator page.
The enclosure PE907044 is enclosed within the container PE907042 at this location in this document.

The enclosure PE907044 has the following characteristics:

ITEM_BARCODE	PE907044
CONTAINER_BARCODE	PE907042
NAME	Geogram
BASIN	GIPPSLAND
PERMIT	VIC/L10
TYPE	WELL
SUBTYPE	SYNTH_SEISMOGRAM
DESCRIPTION	Geogram/Synthetic Seismogram, 35Hz, (enclosure from attachment tt WCR--Sonic Calibration and Geogram Procssing Report) for Sweetlips-1
REMARKS	
DATE_CREATED	14/09/89
DATE_RECEIVED	26/02/90
W_NO	W1003
WELL_NAME	SWEETLIPS-1
CONTRACTOR	SCHLUMBERGER
CLIENT_OP_CO	ESSO AUSTRALIA LTD

(Inserted by DNRE - Vic Govt Mines Dept)

PE907045

This is an enclosure indicator page.
The enclosure PE907045 is enclosed within the container PE907042 at this location in this document.

The enclosure PE907045 has the following characteristics:

ITEM_BARCODE	= PE907045
CONTAINER_BARCODE	= PE907042
NAME	= Geogram
BASIN	= GIPPSLAND
PERMIT	= VIC/L10
TYPE	= WELL
SUBTYPE	= SYNTH_SEISMOGRAM
DESCRIPTION	= Geogram/Synthetic Seismogram, 45Hz, (enclosure from attachment tt WCR--Sonic Calibration and Geogram Procssing Report) for Sweetlips-1
REMARKS	=
DATE_CREATED	= 14/09/89
DATE_RECEIVED	= 26/02/90
W_NO	= W1003
WELL_NAME	= SWEETLIPS-1
CONTRACTOR	= SCHLUMBERGER
CLIENT_OP_CO	= ESSO AUSTRALIA LTD

(Inserted by DNRE - Vic Govt Mines Dept)