hlumberger

Well Seismic Processing Report

Moonfish-2 (ATTACHMENT) (W1114)

MELBOURNE LOG INTERPRETATION CENTRE

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SONIC CALIBRATION AND GEOGRAM PLOTS

Checkshot - Stacked data

Drift Corrected Sonic

Seismic Calibration Log

25 Hz Zero phase Geogram, 20 cm/sec

35 Hz Zero phase Geogram, 20 cm/sec

45 Hz Zero phase Geogram, 20 cm/sec

Schlumberger

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ESSO AUSTRALIA LTD

WELL SEISMIC PROCESSING REPORT

Sonic Calibration and Geogram

MOONFISH-2

FIELD : MOONFISH

COUNTRY : AUSTRALIA

COORDINATES : 038 08' 57.698" S
: 148 01' 18.935" E

DATE OF SURVEY : 19 JANUARY 1995

REFERENCE NO. : SYJ.561081

INTERVAL : 2296 - 147 M

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1. Introduction

A vertical incidence seismic survey was recorded with the Combinable Seismic Imager tool (CSI) at the *Moonfish-2* well. The survey was run on 19 January 1995. The data was processed using the conventional vertical incidence processing chain. The data were stacked, the transit times were re-picked and used as input for sonic calibration processing.

2. Data Acquisition

The data was acquired in a single logging run using the three component Combinable Seismic Imager tool (CSI). A single bolt air gun was used as the source. The gun was positioned 5 meters below mean sea level. Recording was made on the Schlumberger MAXIS Unit using DLIS format .

Table 1. Survey Parameters

Elevation of KB	30.8 M
Elevation of DF	30.5 M
Elevation of GL	-53.9 M
Total Depth	2296 M M.D.
Energy Source	200 cu in. airguns
Source Offset	Moving source
Source Depth	5 M below MSL
Reference Sensor	Hydrophone
Hydrophone Offset	Moving source sensor
Hydrophone Depth	10 M below MSL
Source & Hyd. Azimuth	20 - 195 Degr.

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.

$$\frac{\Delta dr \text{ if } t}{\Delta dept\, h} < 0$$

For a negative drift 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}, $\Delta t - \Delta t_{min}$.

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

The sonic log has been recorded from 2224 to 200 metres below DF. This sonic log has been edited to alleviate cycle skipping and spiky data. The density log has also been edited to take into account bad hole condition.

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

3.3 Correction to Datum and Velocity Modelling

The sonic calibration processing has been referenced to mean sea level which the seismic reference datum . Static corrections are applied to correct for source offset and source depth. This involves using a water velocity of 1524 m/sec.

3.4 Sonic Calibration Results

The top of the sonic log (200.0 metres below DF) is chosen as the origin for the calibration drift curve.

The drift curve is the correction imposed upon the sonic log. The adjusted sonic curve is considered to be the best result using the available data. A list of shifts used on the sonic data is given below.

Table 2: Sonic Drift

Depth Interval (metres below KB)	Block Shift µsec/mt	Δt_{min} µsec/mt	Equiv Block shift µsec/mt
0.0 - 200.0	0.00	-	0.00
200.0 -1130.2	0.00	-	0.00
1130.2 - 1590.3	-	314.5	-13.04
1590.3 - 1773.0	-	278.19	-21.89
1773.0 - 1861.1	-	265.42	-1.14
1861.1 - 2031.5	24.06	-	24.06
2031.5 - 2060.8	83.62	-	83.62
2060.8 - 2224.0	4.11	-	4.11

4. Synthetic Seismogram Processing

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

The presentations include both normal and reverse polarity on a time scale of 20 cm/sec.

GEOGRAM processing produces synthetic seismic traces based on reflection coefficients generated form 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 form 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:

$$R = \frac{\rho_2.v_2 - \rho_1.v_1}{\rho_2.v_2 + \rho_1.v_1}$$

where:

ρ_1 = density of the layer above the reflection interface
ρ_2 = density of the layer below the reflection interface
v_1 = compressional wave velocity of the layer above the reflection interface
v_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 form the above result we obtain multiples only.

4.6 Wavelet

A theoretical wavelet is chosen to use for convolution with the reflection coefficients previoulsy 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 coefficient, 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

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

A1 Geophysical Airgun Report

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

2. Measured depth from KB: *dkb*, the depth in metres from kelly bushing.

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

4. Observed travel time HYD to GEO: *tim*0, the transit time picked form 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 metres from kelly bushing

3. Vertical depth from SRD: the depth in metres 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 $\left(\frac{\Delta \text{ drift}}{\Delta \text{ depth}}\right)$.

A3 Sonic Adjustment Parameter Report

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

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

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

4. 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 metres form kelly bushing.

3. Vertical depth from SRD: the depth in metres 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 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.

$$v_{rms} = \sqrt{\Sigma_1^n v_i^2 t_i / \Sigma^n{}_1 t_i}$$

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 = 1000 M).

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

where:

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

7. Second normal moveout: the correction time in millisecs to be applied to the two way travel tome for a specified moveout distance (default = 1500 M).

8. Third normal moveout: the correction time in millisecs to be applied to the two way travel time for a specified moveout distance (default = 2000 M)

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 0.002. It is equivalent to column 9 from the Velocity Report.

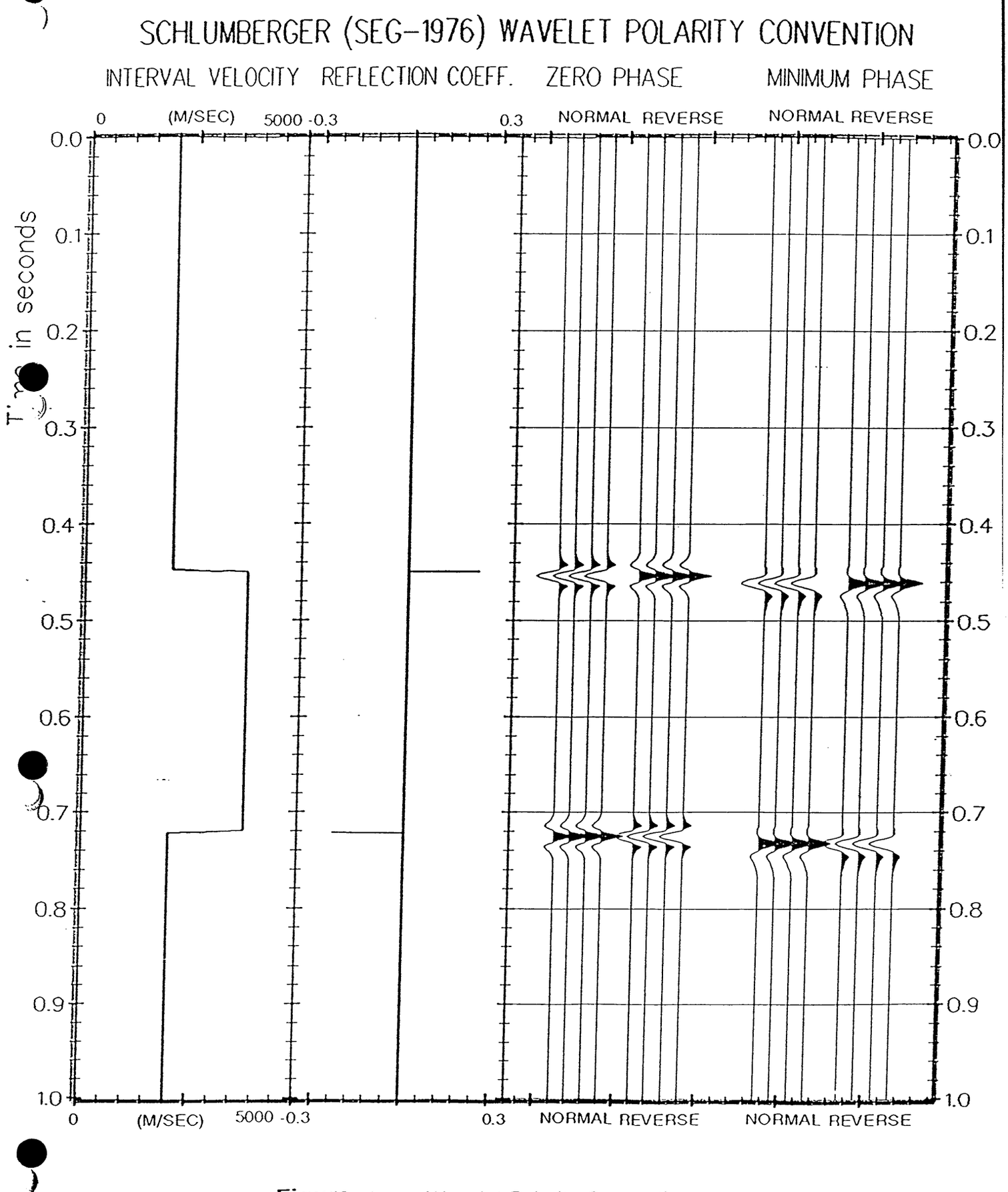

Figure 1 Wavelet Polarity Convention

Shots

ANALYST: A[redacted]IBISONO 20-FEB-95 18:32:[redacted] PROGRAM: GSHOT 007.E08 [redacted] [redacted]

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GEOPHYSICAL AIRGUN REPORT

COMPANY : ESSO AUSTRALIA LTD.
WELL : MOONFISH-2
FIELD : MOONFISH
STATE : VICTORIA
COUNTRY : AUSTRALIA
REFERENCE: SYJ.561081
LOGGED : 19-JAN-1995

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
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
TIMO.GSH - Tie In Memorized Output
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	:	30.8000	M
ELEV OF SRD AB. MSL(WST)	SRD	:	0	M
Elevation of Kelly Bushi	EKB	:	30.8000	M
VEL SOURCE-HYDRO(WST)	VELHYD	:	1524.00	M/S
VEL SOURCE-SRD (WST)	VELSUR	:	1524.00	M/S

(MATRIX PARAMETERS)

	SOURCE ELV M	SOURCE EW M	SOURCE NS M	HYDRO ELEV M	HYDRO EW M	HYDRO NS M
1	-5.0	35.3	40.4	-10.0	35.3	40.4
2	-5.0	114.2	189.2	-10.0	114.2	189.2
3	-5.0	126.5	212.3	-10.0	126.5	212.3
4	-5.0	142.6	245.3	-10.0	142.6	245.3

5	-5.0	158.1	279.6	-10.0	158.1	279.6
6	-5.0	168.2	301.7	-10.0	168.2	301.7
7	-5.0	182.4	327.4	-10.0	182.4	327.4
8	-5.0	184.5	329.0	-10.0	184.5	329.0
9	-5.0	192.3	331.7	-10.0	192.3	331.7

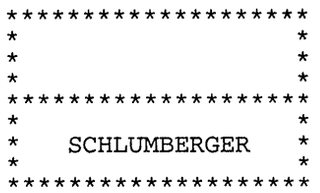
	TRT HYD-SC MS	TRT SC-SRD MS
1	3.28	3.28
2	3.28	3.28
3	3.28	3.28
4	3.28	3.28
5	3.28	3.28
6	3.28	3.28
7	3.28	3.28
8	3.28	3.28
9	3.28	3.28

	MD @ KB M	VD @ KB M	VD @ SRD M	E-W COORD M	N-S COORD M
1	1130.2	1130.2	1099.4	0	0
2	1517.7	1517.7	1486.9	0	0
3	1578.9	1578.9	1548.1	0	0
4	1669.9	1669.9	1639.1	0	0
5	1771.0	1771.0	1740.2	0	0
6	1852.1	1852.1	1821.3	0	0
7	2030.9	2030.9	2000.1	0	0
8	2063.6	2063.6	2032.9	0	0
9	2208.4	2208.4	2177.6	0	0

LEVEL NUMBER	MEASUR DEPTH FROM KB M	VERTIC DEPTH FROM SRD 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	1130.2	1099.4	453.60	456.33	459.62	2392			
							387.5	132.63	2921
2	1517.7	1486.9	592.20	588.97	592.25	2511			
							61.2	19.66	3113
3	1578.9	1548.1	613.10	608.63	611.91	2530			
							91.0	26.84	3392
4	1669.9	1639.1	641.70	635.47	638.75	2566			
							101.1	31.77	3183
5	1771.0	1740.2	675.30	667.24	670.52	2595			
							81.1	23.07	3515
6	1852.1	1821.3	699.40	690.31	693.59	2626			
							178.8	56.02	3191
7	2030.9	2000.1	756.10	746.33	749.61	2668			
							32.8	9.88	3316
8	2063.6	2032.9	765.90	756.21	759.49	2677			
							144.8	39.48	3667
9	2208.4	2177.6	804.70	795.69	798.97	2726			

Drift

ANALYST: [redacted]WIBISONO 20-FEB-95 18:33[redacted] PROGRAM: GDRIFT 007.E09



DRIFT COMPUTATION REPORT

COMPANY : ESSO AUSTRALIA LTD.
WELL : MOONFISH-2
FIELD : MOONFISH
STATE : VICTORIA
COUNTRY : AUSTRALIA
REFERENCE: SYJ.561081
LOGGED : 19-JAN-1995

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
XSTART - TOP OF ZONE PROCESSED BY WST
XSTOP - BOTTOM OF ZONE PROCESSED BY WST
UNFDEN - UNIFORM DENSITY VALUE
GAD001 - RAW SONIC CHANNEL NAME USED FOR WST SONIC ADJUSTMENT

ZONE

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

SAMPLED

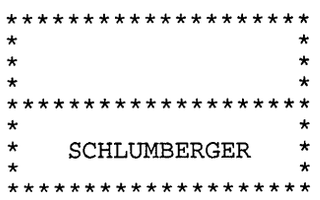
SHOT - Shot number
DKB - Measured Depth from Kelly-Bushing
DSRD - Depth from SRD
SHTM - Shot time (WST)
RAWS - Raw Sonic (WST)
SHDR - Drift at Shot or Knee
BLSH - Block Shift between Shots or Knee

(GLOBAL PARAMETERS)		(VALUE)	
ELEV OF KB AB. MSL (WST)	KB	30.8000	M
ELEV OF SRD AB. MSL(WST)	SRD	0	M
Elevation of Kelly Bushi	EKB	30.8000	M
TOP OF ZONE PROCD (WST)	XSTART	0	M
BOT OF ZONE PROCD (WST)	XSTOP	0	M
UNIFORM DENSITY VALUE	UNFDEN	2.30000	G/C3
RAW SONIC CH NAME (WST)	GAD001	DT.TVD.ATT.002.FLP.*	

(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	VERTICAL DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	VERTICAL TRAVEL TIME SRD/GEO MS	INTEGRATED RAW SONIC TIME MS	COMPUTED DRIFT AT LEVEL MS	COMPUTED BLK-SHFT CORRECTION US/M
1	200.1	169.3	106.54	106.54	0	0
2	1130.2	1099.4	459.62	459.62	0	0
3	1517.7	1486.9	592.25	597.28	-5.03	-12.99
4	1578.9	1548.1	611.91	617.47	-5.57	-8.76
5	1669.9	1639.1	638.75	646.78	-8.03	-27.02
6	1771.0	1740.2	670.52	680.38	-9.86	-18.08
7	1852.1	1821.3	693.59	703.87	-10.28	-5.25
8	2030.9	2000.1	749.61	755.58	-5.98	24.09
9	2063.6	2032.9	759.49	763.02	-3.53	74.68
10	2208.4	2177.6	798.97	801.85	-2.88	4.46
11	2224.0	2193.2	802.91	805.79	-2.88	0

ANALYST: A[redacted]VIBISONO 20-FEB-95 18:42[redacted] PROGRAM: GADJST 008.E08



SONIC ADJUSTMENT PARAMETER REPORT

COMPANY : ESSO AUSTRALIA LTD.
WELL : MOONFISH-2
FIELD : MOONFISH
STATE : VICTORIA
COUNTRY : AUSTRALIA
REFERENCE: SYJ.561081
LOGGED : 19-JAN-1995

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
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	: 1589.08	M/S

(ZONED PARAMETERS)		(VALUE)		(LIMITS)	
USER DRIFT ZONE (WST)	ZDRIFT	:-2.880000	MS	2224.00	- 2060.80
		-3.550000		2060.80	2031.50
		-6.000000		2031.50	1861.10
		-10.10000		1861.10	1773.00
		-10.00000		1773.00	1590.30
		-6.000000		1590.30	1130.20
		0		1130.20	200.100
		0		200.100	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	: 0		30479.7	- 0
USER VELOC (WST)	LAYVEL	: 2634.250	M/S	1130.20	- 200.100
		1589.080		200.100	0

KNEE NUMBER	VERTICAL DEPTH FROM KB M	VERTICAL DEPTH FROM SRD 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	200.1	169.3	0	0			0
3	1130.2	1099.4	0		314.50	.68	-13.04
4	1590.3	1559.5	-6.00		278.19	.54	-21.89
5	1773.0	1742.2	-10.00		265.42	.96	-1.14
6	1861.1	1830.3	-10.10	24.06			24.06
7	2031.5	2000.7	-6.00	83.62			83.62
8	2060.8	2030.0	-3.55	4.11			4.11
9	2224.0	2193.2	-2.88				

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
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

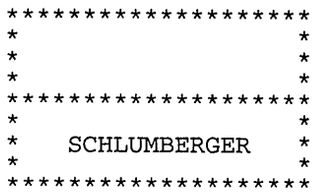
SHOT - Shot number
DKB - Measured Depth from Kelly-Bushing
DSRD - Depth from SRD
SHTM - Shot time (WST)
ADJS - Adjusted Sonic Travel Time
SHDR - Drift at Shot or Knee
REST - Residual Travel Time at Knee
INTV - Internal Velocity, Average

(GLOBAL PARAMETERS)		(VALUE)	
ELEV OF KB AB. MSL (WST)	KB :	30.8000	M
ELEV OF SRD AB. MSL(WST)	SRD :	0	M
Elevation of Kelly Bushi	EKB :	30.8000	M
UNIFORM EARTH VELOCITY	UNERTH :	1589.08	M/S

(ZONED PARAMETERS)		(VALUE)		(LIMITS)		
LAYER OPTION FLAG VELOC	LOFVEL :	0		30479.7	-	0
USER VELOC (WST)	LAYVEL :	2634.250	M/S	1130.20	-	200.100
		1589.080		200.100		0

LEVEL NUMBER	VERTICAL DEPTH FROM KB M	VERTICAL DEPTH FROM SRD 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
							1589
1	200.1	169.3	106.54	106.54	0	0	
							2634
2	1130.2	1099.4	459.62	459.59	0	.02	
							2927
3	1517.7	1486.9	592.25	591.96	-5.03	.29	
							3110
4	1578.9	1548.1	611.91	611.64	-5.57	.26	
							3284
5	1669.9	1639.1	638.75	639.37	-8.03	-.62	
							3262
6	1771.0	1740.2	670.52	670.37	-9.86	.15	
							3467
7	1852.1	1821.3	693.59	693.76	-10.28	-.17	
							3205
8	2030.9	2000.1	749.61	749.54	-5.98	.07	
							3304
9	2063.6	2032.9	759.49	759.46	-3.53	.03	
							3673
10	2208.4	2177.6	798.97	798.87	-2.88	.10	
							3832
11	2224.0	2193.2	802.91	802.93	-2.88	-.02	

ANALYST: WIBISONO 20-FEB-95 18:42 PROGRAM: GADJST 008.E08

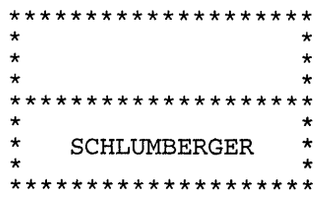


VELOCITY REPORT

COMPANY : ESSO AUSTRALIA LTD.
WELL : MOONFISH-2
FIELD : MOONFISH
STATE : VICTORIA
COUNTRY : AUSTRALIA
REFERENCE: SYJ.561081
LOGGED : 19-JAN-1995

Time / Depth

ANALYST: [redacted]WIBISONO 20-FEB-95 18:44[redacted] PROGRAM: GTRFRM 001.E13 [redacted] [redacted]



TIME CONVERTED VELOCITY REPORT

COMPANY : ESSO AUSTRALIA LTD.
WELL : MOONFISH-2
FIELD : MOONFISH
STATE : VICTORIA
COUNTRY : AUSTRALIA
REFERENCE: SYJ.561081
LOGGED : 19-JAN-1995

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 Users 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	:	30.8000	M
ELEV OF SRD AB. MSL(WST)	SRD	:	0	M
ELEV OF GL AB. SRD(WST)	GL	:	0	M
UNIFORM EARTH VELOCITY	UNERTH	:	1589.08	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	: 0		30479.7 - 0
USER VELOC (WST)	LAYVEL	: 2634.250	M/S	1130.20 - 200.100
		1589.080		200.100 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	VERTICAL 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
								1589
0	30.8	0						1589
2.00	32.4	1.6	1589	1589	627.30	941.94	1256.59	1589
4.00	34.0	3.2	1589	1589	625.31	939.95	1254.60	1589
6.00	35.6	4.8	1589	1589	623.32	937.96	1252.60	1589
8.00	37.2	6.4	1589	1589	621.35	935.98	1250.62	1589
10.00	38.7	7.9	1589	1589	619.37	934.00	1248.63	1589
12.00	40.3	9.5	1589	1589	617.41	932.02	1246.65	1589
14.00	41.9	11.1	1589	1589	615.45	930.05	1244.67	1589
16.00	43.5	12.7	1589	1589	613.50	928.08	1242.69	1589
18.00	45.1	14.3	1589	1589	611.55	926.11	1240.72	1589
20.00	46.7	15.9	1589	1589	609.61	924.15	1238.75	1589
22.00	48.3	17.5	1589	1589	607.68	922.20	1236.78	1589
24.00	49.9	19.1	1589	1589	605.75	920.25	1234.82	1589
26.00	51.5	20.7	1589	1589	603.83	918.30	1232.86	1589
28.00	53.0	22.2	1589	1589	601.92	916.36	1230.90	1589
30.00	54.6	23.8	1589	1589	600.01	914.42	1228.95	1589
32.00	56.2	25.4	1589	1589	598.11	912.48	1227.00	1589
34.00	57.8	27.0	1589	1589	596.21	910.55	1225.05	1589
36.00	59.4	28.6	1589	1589	594.32	908.63	1223.10	1589
38.00	61.0	30.2	1589	1589	592.44	906.71	1221.16	1589
40.00	62.6	31.8	1589	1589	590.56	904.79	1219.23	1589
42.00	64.2	33.4	1589	1589	588.69	902.88	1217.29	1589
44.00	65.8	35.0	1589	1589	586.83	900.97	1215.36	1589
46.00	67.3	36.5	1589	1589	584.97	899.06	1213.43	

TWO-WAY TRAVEL TIME FROM SRD MS	VERTICAL 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
								1589
48.00	68.9	38.1	1589	1589	583.12	897.16	1211.50	1589
50.00	70.5	39.7	1589	1589	581.28	895.27	1209.58	1589
52.00	72.1	41.3	1589	1589	579.44	893.37	1207.66	1589
54.00	73.7	42.9	1589	1589	577.61	891.49	1205.75	1589
56.00	75.3	44.5	1589	1589	575.78	889.60	1203.84	1589
58.00	76.9	46.1	1589	1589	573.96	887.72	1201.93	1589
60.00	78.5	47.7	1589	1589	572.15	885.85	1200.02	1589
62.00	80.1	49.3	1589	1589	570.34	883.98	1198.12	1589
64.00	81.7	50.9	1589	1589	568.54	882.11	1196.22	1589
66.00	83.2	52.4	1589	1589	566.75	880.25	1194.32	1589
68.00	84.8	54.0	1589	1589	564.96	878.39	1192.43	1589
70.00	86.4	55.6	1589	1589	563.18	876.53	1190.53	1589
72.00	88.0	57.2	1589	1589	561.40	874.68	1188.65	1589
74.00	89.6	58.8	1589	1589	559.63	872.84	1186.76	1589
76.00	91.2	60.4	1589	1589	557.87	871.00	1184.88	1589
78.00	92.8	62.0	1589	1589	556.11	869.16	1183.00	1589
80.00	94.4	63.6	1589	1589	554.36	867.33	1181.13	1589
82.00	96.0	65.2	1589	1589	552.61	865.50	1179.26	1589
84.00	97.5	66.7	1589	1589	550.88	863.67	1177.39	1589
86.00	99.1	68.3	1589	1589	549.14	861.85	1175.52	1589
88.00	100.7	69.9	1589	1589	547.42	860.04	1173.66	1589
90.00	102.3	71.5	1589	1589	545.70	858.22	1171.80	1589
92.00	103.9	73.1	1589	1589	543.98	856.42	1169.95	1589
94.00	105.5	74.7	1589	1589	542.28	854.61	1168.10	

TWO-WAY TRAVEL TIME FROM SRD MS	VERTICAL 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
								1589
96.00	107.1	76.3	1589	1589	540.58	852.81	1166.25	1589
98.00	108.7	77.9	1589	1589	538.88	851.02	1164.40	1589
100.00	110.3	79.5	1589	1589	537.19	849.22	1162.56	1589
102.00	111.8	81.0	1589	1589	535.51	847.44	1160.72	1589
104.00	113.4	82.6	1589	1589	533.83	845.65	1158.88	1589
106.00	115.0	84.2	1589	1589	532.16	843.88	1157.05	1589
108.00	116.6	85.8	1589	1589	530.50	842.10	1155.22	1589
110.00	118.2	87.4	1589	1589	528.84	840.33	1153.39	1589
112.00	119.8	89.0	1589	1589	527.18	838.56	1151.56	1589
114.00	121.4	90.6	1589	1589	525.54	836.80	1149.74	1589
116.00	123.0	92.2	1589	1589	523.90	835.04	1147.92	1589
118.00	124.6	93.8	1589	1589	522.26	833.29	1146.11	1589
120.00	126.1	95.3	1589	1589	520.63	831.54	1144.30	1589
122.00	127.7	96.9	1589	1589	519.01	829.79	1142.49	1589
124.00	129.3	98.5	1589	1589	517.40	828.05	1140.68	1589
126.00	130.9	100.1	1589	1589	515.79	826.31	1138.88	1589
128.00	132.5	101.7	1589	1589	514.18	824.58	1137.08	1589
130.00	134.1	103.3	1589	1589	512.58	822.85	1135.29	1589
132.00	135.7	104.9	1589	1589	510.99	821.13	1133.49	1589
134.00	137.3	106.5	1589	1589	509.40	819.41	1131.70	1589
136.00	138.9	108.1	1589	1589	507.82	817.69	1129.92	1589
138.00	140.4	109.6	1589	1589	506.25	815.98	1128.13	1589
140.00	142.0	111.2	1589	1589	504.68	814.27	1126.35	1589
142.00	143.6	112.8	1589	1589	503.12	812.56	1124.58	

TWO-WAY TRAVEL TIME FROM SRD MS	VERTICAL DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
144.00	145.2	114.4	1589	1589	501.56	810.86	1122.80	1589
146.00	146.8	116.0	1589	1589	500.01	809.17	1121.03	1589
148.00	148.4	117.6	1589	1589	498.46	807.47	1119.26	1589
150.00	150.0	119.2	1589	1589	496.93	805.79	1117.50	1589
152.00	151.6	120.8	1589	1589	495.39	804.10	1115.74	1589
154.00	153.2	122.4	1589	1589	493.86	802.42	1113.98	1589
156.00	154.7	123.9	1589	1589	492.34	800.75	1112.22	1589
158.00	156.3	125.5	1589	1589	490.83	799.07	1110.47	1589
160.00	157.9	127.1	1589	1589	489.32	797.41	1108.72	1589
162.00	159.5	128.7	1589	1589	487.81	795.74	1106.97	1589
164.00	161.1	130.3	1589	1589	486.31	794.08	1105.23	1589
166.00	162.7	131.9	1589	1589	484.82	792.43	1103.49	1589
168.00	164.3	133.5	1589	1589	483.33	790.78	1101.75	1589
170.00	165.9	135.1	1589	1589	481.85	789.13	1100.02	1589
172.00	167.5	136.7	1589	1589	480.38	787.48	1098.29	1589
174.00	169.0	138.2	1589	1589	478.91	785.85	1096.56	1589
176.00	170.6	139.8	1589	1589	477.44	784.21	1094.84	1589
178.00	172.2	141.4	1589	1589	475.98	782.58	1093.11	1589
180.00	173.8	143.0	1589	1589	474.53	780.95	1091.40	1589
182.00	175.4	144.6	1589	1589	473.08	779.33	1089.68	1589
184.00	177.0	146.2	1589	1589	471.64	777.71	1087.97	1589
186.00	178.6	147.8	1589	1589	470.21	776.09	1086.26	1589
188.00	180.2	149.4	1589	1589	468.78	774.48	1084.55	1589
190.00	181.8	151.0	1589	1589	467.35	772.87	1082.85	

TWO-WAY TRAVEL TIME FROM SRD MS	VERTICAL DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
96.00	107.1	76.3	1589	1589	540.58	852.81	1166.25	1589
98.00	108.7	77.9	1589	1589	538.88	851.02	1164.40	1589
100.00	110.3	79.5	1589	1589	537.19	849.22	1162.56	1589
102.00	111.8	81.0	1589	1589	535.51	847.44	1160.72	1589
104.00	113.4	82.6	1589	1589	533.83	845.65	1158.88	1589
106.00	115.0	84.2	1589	1589	532.16	843.88	1157.05	1589
108.00	116.6	85.8	1589	1589	530.50	842.10	1155.22	1589
110.00	118.2	87.4	1589	1589	528.84	840.33	1153.39	1589
112.00	119.8	89.0	1589	1589	527.18	838.56	1151.56	1589
114.00	121.4	90.6	1589	1589	525.54	836.80	1149.74	1589
116.00	123.0	92.2	1589	1589	523.90	835.04	1147.92	1589
118.00	124.6	93.8	1589	1589	522.26	833.29	1146.11	1589
120.00	126.1	95.3	1589	1589	520.63	831.54	1144.30	1589
122.00	127.7	96.9	1589	1589	519.01	829.79	1142.49	1589
124.00	129.3	98.5	1589	1589	517.40	828.05	1140.68	1589
126.00	130.9	100.1	1589	1589	515.79	826.31	1138.88	1589
128.00	132.5	101.7	1589	1589	514.18	824.58	1137.08	1589
130.00	134.1	103.3	1589	1589	512.58	822.85	1135.29	1589
132.00	135.7	104.9	1589	1589	510.99	821.13	1133.49	1589
134.00	137.3	106.5	1589	1589	509.40	819.41	1131.70	1589
136.00	138.9	108.1	1589	1589	507.82	817.69	1129.92	1589
138.00	140.4	109.6	1589	1589	506.25	815.98	1128.13	1589
140.00	142.0	111.2	1589	1589	504.68	814.27	1126.35	1589
142.00	143.6	112.8	1589	1589	503.12	812.56	1124.58	

TWO-WAY TRAVEL TIME FROM SRD MS	VERTICAL DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
192.00	183.4	152.6	1589	1589	465.93	771.27	1081.15	1589
194.00	184.9	154.1	1589	1589	464.52	769.67	1079.45	1589
196.00	186.5	155.7	1589	1589	463.11	768.08	1077.76	1589
198.00	188.1	157.3	1589	1589	461.71	766.48	1076.07	1589
200.00	189.7	158.9	1589	1589	460.31	764.90	1074.38	1589
202.00	191.3	160.5	1589	1589	458.92	763.31	1072.70	1589
204.00	192.9	162.1	1589	1589	457.53	761.73	1071.02	1589
206.00	194.5	163.7	1589	1589	456.15	760.16	1069.34	1589
208.00	196.1	165.3	1589	1589	454.78	758.59	1067.66	1589
210.00	197.7	166.9	1589	1589	453.41	757.02	1065.99	1589
212.00	199.2	168.4	1589	1589	452.05	755.46	1064.32	1855
214.00	201.1	170.3	1592	1592	449.68	752.34	1060.56	2062
216.00	203.2	172.4	1596	1597	446.47	747.91	1055.02	2052
218.00	205.2	174.4	1600	1602	443.36	743.64	1049.69	2039
220.00	207.3	176.5	1604	1606	440.37	739.53	1044.58	2064
222.00	209.3	178.5	1608	1611	437.32	735.34	1039.34	2032
224.00	211.3	180.5	1612	1615	434.47	731.42	1034.49	2040
226.00	213.4	182.6	1616	1619	431.63	727.53	1029.65	2098
228.00	215.5	184.7	1620	1624	428.60	723.34	1024.41	2099
230.00	217.6	186.8	1624	1629	425.62	719.22	1019.27	2101
232.00	219.7	188.9	1628	1633	422.69	715.16	1014.20	2150
234.00	221.8	191.0	1633	1639	419.62	710.88	1008.83	2145
236.00	224.0	193.2	1637	1643	416.63	706.71	1003.60	2130
238.00	226.1	195.3	1641	1648	413.74	702.70	998.58	

TWO-WAY TRAVEL TIME FROM SRD MS	VERTICAL 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
240.00	228.3	197.5	1646	1653	410.81	698.62	993.47	2155
242.00	230.4	199.6	1650	1658	407.83	694.44	988.21	2185
244.00	232.7	201.9	1655	1664	404.71	690.05	982.66	2236
246.00	234.8	204.0	1659	1668	401.93	686.17	977.81	2157
248.00	237.2	206.4	1664	1675	398.50	681.27	971.57	2352
250.00	239.7	208.9	1671	1683	394.65	675.69	964.40	2485
252.00	242.1	211.3	1677	1690	391.12	670.62	957.91	2421
254.00	244.5	213.7	1683	1697	387.66	665.65	951.56	2421
256.00	247.1	216.3	1690	1705	383.87	660.13	944.46	2538
258.00	249.7	218.9	1697	1714	379.79	654.16	936.73	2641
260.00	252.1	221.3	1702	1721	376.70	649.73	931.11	2383
262.00	254.4	223.6	1707	1726	373.83	645.65	925.94	2333
264.00	256.8	226.0	1712	1732	371.01	641.63	920.84	2335
266.00	259.2	228.4	1718	1739	367.73	636.88	914.76	2496
268.00	261.7	230.9	1723	1745	364.54	632.26	908.85	2488
270.00	264.2	233.4	1729	1751	361.58	627.99	903.40	2437
272.00	266.6	235.8	1734	1757	358.82	624.03	898.38	2388
274.00	269.2	238.4	1740	1765	355.44	619.08	891.99	2611
276.00	271.6	240.8	1745	1770	352.70	615.13	886.97	2419
278.00	273.9	243.1	1749	1775	350.21	611.58	882.49	2343
280.00	276.1	245.3	1752	1778	348.23	608.82	879.08	2163
282.00	278.3	247.5	1756	1782	346.08	605.80	875.32	2238
284.00	280.5	249.7	1758	1785	344.22	603.22	872.15	2134
286.00	282.5	251.7	1760	1786	342.66	601.11	869.61	2011

TWO-WAY TRAVEL TIME FROM SRD MS	VERTICAL 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
288.00	284.7	253.9	1763	1789	340.71	598.40	866.25	2185
290.00	286.8	256.0	1765	1792	338.98	596.02	863.34	2101
292.00	289.0	258.2	1768	1795	337.08	593.35	860.04	2185
294.00	291.0	260.2	1770	1797	335.51	591.20	857.43	2050
296.00	293.2	262.4	1773	1799	333.72	588.71	854.37	2151
298.00	295.3	264.5	1775	1802	331.95	586.23	851.31	2158
300.00	297.5	266.7	1778	1805	330.07	583.58	848.02	2213
302.00	299.8	269.0	1781	1808	328.16	580.87	844.64	2240
304.00	301.9	271.1	1784	1811	326.43	578.45	841.65	2165
306.00	304.1	273.3	1786	1813	324.70	576.02	838.65	2174
308.00	306.3	275.5	1789	1816	322.87	573.42	835.41	2232
310.00	308.6	277.8	1792	1820	320.96	570.69	831.99	2280
312.00	310.8	280.0	1795	1823	319.18	568.17	828.85	2227
314.00	313.1	282.3	1798	1826	317.37	565.59	825.62	2254
316.00	315.3	284.5	1801	1828	315.65	563.15	822.59	2219
318.00	317.6	286.8	1804	1831	313.89	560.62	819.43	2254
320.00	319.8	289.0	1806	1834	312.14	558.13	816.32	2252
322.00	322.1	291.3	1809	1837	310.45	555.71	813.30	2237
324.00	324.3	293.5	1812	1840	308.76	553.30	810.29	2244
326.00	326.5	295.7	1814	1843	307.09	550.91	807.32	2243
328.00	328.8	298.0	1817	1845	305.51	548.66	804.52	2208
330.00	331.0	300.2	1819	1848	303.92	546.38	801.68	2222
332.00	333.2	302.4	1822	1850	302.33	544.10	798.85	2230
334.00	335.4	304.6	1824	1853	300.74	541.82	796.00	2241

TWO-WAY TRAVEL TIME FROM SRD MS	VERTICAL DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
336.00	337.7	306.9	1827	1855	299.22	539.65	793.30	2209
338.00	339.9	309.1	1829	1858	297.65	537.40	790.49	2243
340.00	342.2	311.4	1832	1861	295.98	534.96	787.43	2315
342.00	344.6	313.8	1835	1864	294.27	532.46	784.25	2349
344.00	346.9	316.1	1838	1867	292.55	529.94	781.07	2362
346.00	349.3	318.5	1841	1871	290.77	527.32	777.73	2409
348.00	352.0	321.2	1846	1876	288.63	524.08	773.54	2621
350.00	354.1	323.3	1847	1877	287.39	522.33	771.40	2109
352.00	356.4	325.6	1850	1880	285.85	520.08	768.57	2305
354.00	358.7	327.9	1853	1883	284.28	517.78	765.66	2334
356.00	361.0	330.2	1855	1885	282.86	515.73	763.10	2248
358.00	363.4	332.6	1858	1889	281.11	513.11	759.75	2464
360.00	366.0	335.2	1862	1893	279.26	510.33	756.16	2536
362.00	368.3	337.5	1864	1896	277.81	508.19	753.47	2307
364.00	370.5	339.7	1867	1898	276.45	506.21	750.99	2255
366.00	372.9	342.1	1870	1901	274.87	503.87	748.00	2404
368.00	375.2	344.4	1872	1903	273.46	501.78	745.37	2311
370.00	377.6	346.8	1875	1906	271.93	499.50	742.46	2399
372.00	380.4	349.6	1880	1912	269.75	496.15	738.06	2801
374.00	382.8	352.0	1882	1915	268.27	493.94	735.25	2392
376.00	385.1	354.3	1885	1917	266.94	491.96	732.75	2306
378.00	387.5	356.7	1887	1920	265.56	489.92	730.17	2339
380.00	389.8	359.0	1890	1922	264.20	487.88	727.59	2346
382.00	392.0	361.2	1891	1924	263.09	486.27	725.60	2163

TWO-WAY TRAVEL TIME FROM SRD MS	VERTICAL DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
384.00	394.0	363.2	1892	1924	262.18	485.01	724.08	2000
386.00	396.3	365.5	1894	1927	260.81	482.96	721.47	2371
388.00	398.9	368.1	1897	1930	259.20	480.49	718.28	2554
390.00	401.3	370.5	1900	1933	257.80	478.38	715.57	2418
392.00	403.4	372.6	1901	1934	256.84	477.00	713.89	2080
394.00	405.2	374.4	1901	1934	256.15	476.07	712.84	1837
396.00	407.3	376.5	1902	1934	255.21	474.72	711.18	2076
398.00	409.9	379.1	1905	1938	253.58	472.20	707.90	2615
400.00	412.5	381.7	1909	1942	252.00	469.76	704.73	2592
402.00	415.2	384.4	1912	1946	250.38	467.24	701.43	2642
404.00	417.8	387.0	1916	1951	248.74	464.69	698.09	2667
406.00	420.6	389.8	1920	1955	246.99	461.96	694.50	2756
408.00	423.0	392.2	1922	1958	245.76	460.09	692.10	2387
410.00	425.6	394.8	1926	1962	244.21	457.67	688.94	2646
412.00	428.1	397.3	1929	1965	242.83	455.55	686.18	2526
414.00	430.7	399.9	1932	1968	241.43	453.38	683.35	2557
416.00	433.3	402.5	1935	1971	240.05	451.23	680.56	2558
418.00	435.6	404.8	1937	1973	238.89	449.46	678.29	2379
420.00	438.2	407.4	1940	1977	237.50	447.29	675.46	2586
422.00	441.1	410.3	1945	1982	235.72	444.45	671.67	2907
424.00	443.6	412.8	1947	1985	234.48	442.53	669.19	2485
426.00	446.3	415.5	1951	1989	233.04	440.26	666.21	2672
428.00	449.1	418.3	1955	1993	231.45	437.74	662.86	2805
430.00	452.0	421.2	1959	1998	229.79	435.06	659.30	2888

TWO-WAY TRAVEL TIME FROM SRD MS	VERTICAL DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
432.00	454.7	423.9	1963	2002	228.31	432.72	656.19	2751
434.00	457.5	426.7	1966	2006	226.88	430.45	653.19	2726
436.00	460.3	429.5	1970	2011	225.32	427.95	649.87	2849
438.00	462.9	432.1	1973	2014	224.10	426.02	647.33	2580
440.00	465.5	434.7	1976	2017	222.80	423.96	644.62	2655
442.00	468.1	437.3	1979	2020	221.65	422.15	642.26	2531
444.00	470.9	440.1	1983	2025	220.16	419.76	639.06	2852
446.00	473.7	442.9	1986	2029	218.76	417.51	636.07	2790
448.00	476.4	445.6	1989	2032	217.48	415.46	633.36	2700
450.00	479.2	448.4	1993	2036	216.08	413.21	630.36	2819
452.00	482.0	451.2	1996	2040	214.78	411.10	627.56	2755
454.00	484.8	454.0	2000	2044	213.39	408.85	624.55	2845
456.00	487.6	456.8	2004	2048	212.08	406.75	621.74	2783
458.00	490.5	459.7	2007	2052	210.73	404.55	618.81	2843
460.00	493.2	462.4	2010	2056	209.52	402.61	616.22	2716
462.00	496.0	465.2	2014	2060	208.19	400.44	613.31	2858
464.00	498.8	468.0	2017	2063	206.99	398.48	610.71	2745
466.00	501.7	470.9	2021	2067	205.66	396.32	607.81	2877
468.00	504.6	473.8	2025	2072	204.34	394.15	604.88	2901
470.00	507.4	476.6	2028	2076	203.07	392.08	602.10	2855
472.00	510.4	479.6	2032	2080	201.70	389.83	599.05	2974
474.00	513.2	482.4	2035	2084	200.52	387.89	596.47	2799
476.00	515.9	485.1	2038	2087	199.44	386.14	594.12	2704
478.00	518.8	488.0	2042	2091	198.19	384.08	591.35	2899

TWO-WAY TRAVEL TIME FROM SRD MS	VERTICAL 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	521.7	490.9	2045	2095	196.93	382.00	588.53	2930
482.00	524.5	493.7	2049	2099	195.79	380.11	585.99	2824
484.00	527.4	496.6	2052	2102	194.58	378.12	583.31	2899
486.00	530.2	499.4	2055	2106	193.50	376.33	580.90	2785
488.00	533.0	502.2	2058	2109	192.43	374.58	578.54	2774
490.00	535.7	504.9	2061	2112	191.40	372.88	576.27	2747
492.00	538.5	507.7	2064	2115	190.34	371.12	573.90	2799
494.00	541.5	510.7	2067	2119	189.19	369.22	571.31	2910
496.00	544.3	513.5	2070	2122	188.15	367.49	568.98	2803
498.00	546.8	516.0	2072	2124	187.28	366.08	567.11	2587
500.00	549.7	518.9	2075	2128	186.24	364.34	564.75	2834
502.00	552.6	521.8	2079	2131	185.13	362.48	562.22	2926
504.00	555.4	524.6	2082	2134	184.16	360.88	560.06	2758
506.00	558.1	527.3	2084	2137	183.22	359.31	557.95	2744
508.00	560.9	530.1	2087	2140	182.25	357.69	555.76	2789
510.00	563.7	532.9	2090	2143	181.27	356.04	553.53	2825
512.00	566.5	535.7	2093	2146	180.31	354.45	551.37	2795
514.00	569.4	538.6	2096	2149	179.32	352.79	549.11	2856
516.00	572.2	541.4	2099	2152	178.35	351.16	546.90	2846
518.00	575.1	544.3	2102	2156	177.36	349.48	544.60	2896
520.00	577.9	547.1	2104	2158	176.45	347.95	542.52	2796
522.00	580.6	549.8	2106	2161	175.62	346.56	540.65	2689
524.00	583.5	552.7	2109	2164	174.67	344.97	538.47	2864
526.00	586.2	555.4	2112	2166	173.84	343.56	536.57	2721

TWO-WAY TRAVEL TIME FROM SRD MS	VERTICAL 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
								2747
528.00	588.9	558.1	2114	2169	172.99	342.14	534.64	2804
530.00	591.7	560.9	2117	2172	172.12	340.66	532.63	2942
532.00	594.7	563.9	2120	2175	171.16	339.03	530.38	2957
534.00	597.6	566.8	2123	2178	170.20	337.38	528.12	3010
536.00	600.6	569.8	2126	2182	169.21	335.69	525.79	2928
538.00	603.6	572.8	2129	2185	168.29	334.12	523.62	2961
540.00	606.5	575.7	2132	2189	167.36	332.52	521.42	3039
542.00	609.6	578.8	2136	2192	166.38	330.84	519.10	2898
544.00	612.5	581.7	2138	2195	165.51	329.35	517.05	3009
546.00	615.5	584.7	2142	2199	164.58	327.74	514.82	3062
548.00	618.5	587.7	2145	2203	163.62	326.09	512.52	2974
550.00	621.5	590.7	2148	2206	162.73	324.55	510.40	2920
552.00	624.4	593.6	2151	2209	161.88	323.10	508.38	2976
554.00	627.4	596.6	2154	2212	161.01	321.59	506.29	2857
556.00	630.3	599.5	2156	2215	160.22	320.22	504.42	3193
558.00	633.5	602.7	2160	2219	159.23	318.49	501.99	2970
560.00	636.4	605.6	2163	2222	158.39	317.03	499.96	2954
562.00	639.4	608.6	2166	2225	157.56	315.60	497.98	2840
564.00	642.2	611.4	2168	2228	156.82	314.31	496.20	3148
566.00	645.4	614.6	2172	2232	155.89	312.69	493.93	2891
568.00	648.3	617.5	2174	2234	155.13	311.37	492.09	2838
570.00	651.1	620.3	2176	2237	154.41	310.11	490.36	2899
572.00	654.0	623.2	2179	2239	153.65	308.80	488.54	2821
574.00	656.8	626.0	2181	2242	152.95	307.58	486.85	

TWO-WAY TRAVEL TIME FROM SRD MS	VERTICAL 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
								2824
576.00	659.6	628.8	2183	2244	152.25	306.37	485.17	2648
578.00	662.3	631.5	2185	2246	151.65	305.33	483.75	2638
580.00	664.9	634.1	2187	2247	151.06	304.31	482.35	2529
582.00	667.5	636.7	2188	2248	150.52	303.40	481.11	2732
584.00	670.2	639.4	2190	2250	149.89	302.30	479.60	2785
586.00	673.0	642.2	2192	2252	149.24	301.17	478.02	2485
588.00	675.5	644.7	2193	2253	148.74	300.31	476.85	2643
590.00	678.1	647.3	2194	2254	148.17	299.31	475.49	2675
592.00	680.8	650.0	2196	2256	147.58	298.30	474.09	2648
594.00	683.4	652.6	2197	2257	147.02	297.31	472.73	2642
596.00	686.1	655.3	2199	2259	146.46	296.34	471.39	2660
598.00	688.7	657.9	2200	2260	145.89	295.36	470.03	2637
600.00	691.4	660.6	2202	2261	145.34	294.40	468.71	2688
602.00	694.0	663.2	2203	2263	144.78	293.41	467.34	2775
604.00	696.8	666.0	2205	2265	144.17	292.35	465.86	2916
606.00	699.7	668.9	2208	2267	143.51	291.17	464.20	2811
608.00	702.6	671.8	2210	2269	142.89	290.09	462.69	2893
610.00	705.4	674.6	2212	2272	142.25	288.95	461.09	2710
612.00	708.2	677.4	2214	2273	141.70	287.97	459.73	2994
614.00	711.1	680.3	2216	2276	141.02	286.76	458.01	2779
616.00	713.9	683.1	2218	2278	140.44	285.74	456.58	2846
618.00	716.8	686.0	2220	2280	139.84	284.67	455.08	2756
620.00	719.5	688.7	2222	2282	139.28	283.69	453.70	2951
622.00	722.5	691.7	2224	2284	138.64	282.54	452.09	

TWO-WAY TRAVEL TIME FROM SRD MS	VERTICAL DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
624.00	725.4	694.6	2226	2286	138.04	281.46	450.56	2890
626.00	728.0	697.2	2228	2288	137.53	280.56	449.30	2674
628.00	730.8	700.0	2229	2289	136.98	279.58	447.93	2780
630.00	733.8	703.0	2232	2292	136.36	278.47	446.35	2960
632.00	736.5	705.7	2233	2293	135.84	277.54	445.04	2738
634.00	739.2	708.4	2235	2295	135.35	276.67	443.83	2661
636.00	742.1	711.3	2237	2297	134.75	275.60	442.31	2930
638.00	745.1	714.3	2239	2299	134.14	274.49	440.73	2985
640.00	747.7	716.9	2240	2300	133.68	273.69	439.61	2606
642.00	750.5	719.7	2242	2302	133.15	272.74	438.26	2805
644.00	753.5	722.7	2244	2305	132.54	271.63	436.69	3010
646.00	756.3	725.5	2246	2306	132.04	270.72	435.40	2766
648.00	759.1	728.3	2248	2308	131.52	269.79	434.08	2810
650.00	762.1	731.3	2250	2310	130.95	268.75	432.60	2956
652.00	764.7	733.9	2251	2311	130.49	267.92	431.43	2679
654.00	767.7	736.9	2253	2313	129.93	266.92	430.00	2927
656.00	770.4	739.6	2255	2315	129.47	266.09	428.83	2699
658.00	773.3	742.5	2257	2317	128.92	265.09	427.40	2944
660.00	776.0	745.2	2258	2318	128.47	264.28	426.26	2682
662.00	778.8	748.0	2260	2320	127.98	263.40	425.00	2802
664.00	781.8	751.0	2262	2322	127.43	262.39	423.56	2974
666.00	784.3	753.5	2263	2323	127.03	261.68	422.55	2567
668.00	787.1	756.3	2264	2324	126.55	260.81	421.31	2806
670.00	789.9	759.1	2266	2326	126.08	259.94	420.07	2808

TWO-WAY TRAVEL TIME FROM SRD MS	VERTICAL DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
672.00	792.5	761.7	2267	2327	125.67	259.21	419.05	2604
674.00	795.6	764.8	2269	2329	125.11	258.18	417.55	3059
676.00	798.4	767.6	2271	2331	124.65	257.33	416.34	2803
678.00	801.0	770.2	2272	2332	124.26	256.64	415.36	2577
680.00	803.6	772.8	2273	2332	123.87	255.93	414.36	2599
682.00	806.2	775.4	2274	2333	123.47	255.20	413.33	2636
684.00	808.9	778.1	2275	2334	123.06	254.46	412.28	2670
686.00	811.5	780.7	2276	2335	122.68	253.77	411.29	2599
688.00	814.1	783.3	2277	2336	122.30	253.08	410.32	2592
690.00	816.7	785.9	2278	2337	121.91	252.38	409.33	2615
692.00	819.5	788.7	2279	2338	121.49	251.60	408.21	2755
694.00	822.0	791.2	2280	2339	121.12	250.94	407.27	2574
696.00	824.6	793.8	2281	2340	120.76	250.28	406.34	2559
698.00	827.2	796.4	2282	2341	120.38	249.59	405.34	2641
700.00	829.8	799.0	2283	2341	120.02	248.93	404.40	2584
702.00	832.6	801.8	2284	2343	119.59	248.14	403.27	2802
704.00	835.2	804.4	2285	2343	119.23	247.48	402.34	2583
706.00	837.6	806.8	2286	2344	118.92	246.93	401.56	2408
708.00	840.1	809.3	2286	2344	118.59	246.31	400.68	2526
710.00	842.8	812.0	2287	2345	118.20	245.61	399.67	2686
712.00	845.5	814.7	2288	2346	117.83	244.93	398.69	2659
714.00	848.2	817.4	2290	2347	117.44	244.21	397.66	2718
716.00	851.0	820.2	2291	2349	117.02	243.44	396.54	2822
718.00	853.6	822.8	2292	2349	116.69	242.83	395.67	2545

TWO-WAY TRAVEL TIME FROM SRD MS	VERTICAL 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	856.3	825.5	2293	2351	116.30	242.10	394.61	2767
722.00	859.0	828.2	2294	2351	115.93	241.43	393.66	2658
724.00	861.6	830.8	2295	2352	115.58	240.78	392.71	2644
726.00	864.4	833.6	2296	2354	115.19	240.06	391.67	2764
728.00	866.9	836.1	2297	2354	114.87	239.46	390.82	2551
730.00	869.6	838.8	2298	2355	114.52	238.82	389.89	2642
732.00	872.1	841.3	2299	2356	114.20	238.22	389.04	2558
734.00	874.7	843.9	2300	2356	113.87	237.62	388.17	2580
736.00	877.3	846.5	2300	2357	113.54	237.01	387.29	2602
738.00	879.9	849.1	2301	2358	113.21	236.41	386.43	2584
740.00	882.6	851.8	2302	2358	112.87	235.77	385.50	2658
742.00	885.2	854.4	2303	2359	112.55	235.17	384.63	2601
744.00	887.7	856.9	2304	2360	112.23	234.59	383.80	2566
746.00	890.3	859.5	2304	2360	111.92	234.00	382.95	2581
748.00	892.9	862.1	2305	2361	111.60	233.42	382.12	2565
750.00	895.6	864.8	2306	2362	111.26	232.79	381.19	2687
752.00	898.5	867.7	2308	2363	110.87	232.04	380.10	2894
754.00	901.2	870.4	2309	2365	110.50	231.36	379.10	2787
756.00	904.2	873.4	2311	2366	110.10	230.59	377.98	2943
758.00	906.8	876.0	2311	2367	109.79	230.01	377.13	2615
760.00	909.6	878.8	2313	2368	109.42	229.33	376.13	2802
762.00	912.1	881.3	2313	2369	109.14	228.79	375.36	2526
764.00	914.8	884.0	2314	2369	108.83	228.22	374.52	2618
766.00	917.5	886.7	2315	2371	108.48	227.56	373.55	2778

TWO-WAY TRAVEL TIME FROM SRD MS	VERTICAL 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	920.1	889.3	2316	2371	108.19	227.01	372.76	2563
770.00	923.0	892.2	2317	2373	107.81	226.29	371.70	2912
772.00	925.9	895.1	2319	2374	107.42	225.56	370.62	2941
774.00	928.8	898.0	2320	2376	107.07	224.89	369.63	2837
776.00	931.5	900.7	2321	2377	106.74	224.28	368.73	2729
778.00	934.2	903.4	2322	2377	106.42	223.67	367.84	2713
780.00	936.9	906.1	2323	2378	106.11	223.09	366.98	2688
782.00	939.6	908.8	2324	2379	105.79	222.48	366.10	2725
784.00	942.4	911.6	2326	2380	105.46	221.86	365.17	2781
786.00	945.1	914.3	2326	2381	105.16	221.28	364.33	2681
788.00	947.8	917.0	2327	2382	104.86	220.71	363.49	2674
790.00	950.6	919.8	2328	2383	104.53	220.10	362.58	2777
792.00	953.5	922.7	2330	2385	104.18	219.42	361.58	2912
794.00	956.3	925.5	2331	2386	103.83	218.76	360.61	2871
796.00	959.1	928.3	2332	2387	103.51	218.16	359.71	2783
798.00	961.7	930.9	2333	2387	103.25	217.65	358.96	2572
800.00	964.4	933.6	2334	2388	102.94	217.08	358.12	2720
802.00	967.1	936.3	2335	2389	102.65	216.51	357.29	2707
804.00	969.8	939.0	2336	2390	102.36	215.97	356.49	2663
806.00	972.4	941.6	2337	2391	102.08	215.44	355.70	2661
808.00	975.2	944.4	2338	2392	101.77	214.84	354.82	2789
810.00	978.0	947.2	2339	2393	101.47	214.28	353.98	2735
812.00	980.7	949.9	2340	2393	101.19	213.74	353.18	2688
814.00	983.3	952.5	2340	2394	100.92	213.23	352.43	2621

TWO-WAY TRAVEL TIME FROM SRD MS	VERTICAL 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	985.9	955.1	2341	2395	100.66	212.72	351.68	2612
818.00	988.6	957.8	2342	2395	100.38	212.20	350.91	2668
820.00	991.3	960.5	2343	2396	100.10	211.65	350.09	2724
822.00	994.1	963.3	2344	2397	99.78	211.05	349.19	2859
824.00	996.8	966.0	2345	2398	99.50	210.51	348.40	2704
826.00	999.6	968.8	2346	2399	99.21	209.94	347.55	2793
828.00	1002.5	971.7	2347	2400	98.89	209.33	346.63	2893
830.00	1005.2	974.4	2348	2401	98.62	208.81	345.86	2693
832.00	1008.0	977.2	2349	2402	98.33	208.26	345.03	2782
834.00	1010.8	980.0	2350	2403	98.05	207.71	344.22	2761
836.00	1013.5	982.7	2351	2404	97.77	207.18	343.42	2741
838.00	1016.1	985.3	2352	2404	97.53	206.71	342.73	2591
840.00	1018.6	987.8	2352	2405	97.31	206.29	342.10	2485
842.00	1021.2	990.4	2352	2405	97.07	205.83	341.42	2576
844.00	1023.8	993.0	2353	2406	96.82	205.35	340.71	2630
846.00	1026.5	995.7	2354	2407	96.54	204.82	339.92	2753
848.00	1029.5	998.7	2355	2408	96.24	204.22	339.02	2933
850.00	1032.2	1001.4	2356	2409	95.97	203.70	338.23	2757
852.00	1035.1	1004.3	2358	2410	95.67	203.12	337.36	2907
854.00	1038.0	1007.2	2359	2411	95.38	202.57	336.53	2840
856.00	1040.9	1010.1	2360	2413	95.08	201.98	335.64	2935
858.00	1043.7	1012.9	2361	2413	94.82	201.47	334.88	2741
860.00	1046.3	1015.5	2362	2414	94.57	201.00	334.16	2679
862.00	1049.1	1018.3	2363	2415	94.31	200.48	333.39	2774

TWO-WAY TRAVEL TIME FROM SRD MS	VERTICAL 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	1051.9	1021.1	2364	2416	94.04	199.97	332.62	2774
866.00	1054.6	1023.8	2364	2416	93.80	199.50	331.90	2695
868.00	1057.4	1026.6	2365	2418	93.52	198.96	331.10	2837
870.00	1060.2	1029.4	2366	2418	93.27	198.47	330.36	2742
872.00	1062.8	1032.0	2367	2419	93.04	198.01	329.67	2666
874.00	1065.6	1034.8	2368	2420	92.77	197.50	328.90	2813
876.00	1068.3	1037.5	2369	2421	92.53	197.03	328.19	2706
878.00	1071.4	1040.6	2370	2422	92.22	196.43	327.27	3044
880.00	1074.1	1043.3	2371	2423	91.99	195.98	326.59	2664
882.00	1076.7	1045.9	2372	2423	91.77	195.54	325.94	2632
884.00	1079.4	1048.6	2373	2424	91.52	195.06	325.21	2765
886.00	1082.3	1051.5	2373	2425	91.26	194.56	324.45	2806
888.00	1085.2	1054.4	2375	2426	90.99	194.02	323.62	2935
890.00	1088.3	1057.5	2376	2428	90.68	193.40	322.69	3111
892.00	1090.9	1060.1	2377	2428	90.46	192.99	322.06	2607
894.00	1093.8	1063.0	2378	2430	90.20	192.46	321.26	2903
896.00	1097.0	1066.2	2380	2432	89.88	191.83	320.29	3180
898.00	1100.1	1069.3	2382	2433	89.57	191.22	319.36	3136
900.00	1102.9	1072.1	2382	2434	89.33	190.76	318.65	2765
902.00	1105.9	1075.1	2384	2435	89.06	190.21	317.82	2993
904.00	1108.8	1078.0	2385	2437	88.79	189.68	317.01	2958
906.00	1111.6	1080.8	2386	2437	88.56	189.24	316.34	2723
908.00	1114.4	1083.6	2387	2438	88.32	188.76	315.61	2830
910.00	1117.3	1086.5	2388	2439	88.07	188.27	314.85	2890

TWO-WAY TRAVEL TIME FROM SRD MS	VERTICAL 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	1120.1	1089.3	2389	2440	87.83	187.80	314.13	2825
914.00	1122.8	1092.0	2389	2441	87.62	187.39	313.51	2654
916.00	1125.6	1094.8	2390	2442	87.39	186.93	312.82	2791
918.00	1128.4	1097.6	2391	2443	87.14	186.44	312.07	2896
920.00	1131.5	1100.7	2393	2444	86.87	185.91	311.24	3026
922.00	1134.5	1103.7	2394	2446	86.60	185.36	310.41	3054
924.00	1137.6	1106.8	2396	2447	86.33	184.82	309.57	3065
926.00	1140.6	1109.8	2397	2448	86.07	184.31	308.79	2971
928.00	1143.5	1112.7	2398	2450	85.83	183.83	308.05	2920
930.00	1146.4	1115.6	2399	2451	85.59	183.36	307.33	2883
932.00	1149.3	1118.5	2400	2452	85.35	182.88	306.59	2918
934.00	1152.2	1121.4	2401	2453	85.10	182.39	305.84	2950
936.00	1155.3	1124.5	2403	2454	84.84	181.88	305.05	3025
938.00	1158.4	1127.6	2404	2456	84.58	181.35	304.23	3091
940.00	1161.3	1130.5	2405	2457	84.34	180.88	303.50	2920
942.00	1164.2	1133.4	2406	2458	84.10	180.40	302.77	2948
944.00	1167.2	1136.4	2408	2459	83.86	179.92	302.03	2953
946.00	1170.1	1139.3	2409	2460	83.63	179.46	301.32	2911
948.00	1173.0	1142.2	2410	2461	83.40	179.01	300.62	2910
950.00	1175.9	1145.1	2411	2462	83.17	178.55	299.92	2908
952.00	1178.8	1148.0	2412	2463	82.95	178.11	299.23	2888
954.00	1181.7	1150.9	2413	2464	82.73	177.67	298.56	2867
956.00	1184.5	1153.7	2414	2465	82.51	177.23	297.88	2877
958.00	1187.4	1156.6	2415	2466	82.29	176.80	297.20	2884

TWO-WAY TRAVEL TIME FROM SRD MS	VERTICAL 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
								2941
960.00	1190.4	1159.6	2416	2467	82.06	176.34	296.50	2950
962.00	1193.3	1162.5	2417	2468	81.84	175.89	295.80	2879
964.00	1196.2	1165.4	2418	2469	81.62	175.46	295.13	3067
966.00	1199.3	1168.5	2419	2470	81.38	174.97	294.37	2935
968.00	1202.2	1171.4	2420	2472	81.16	174.52	293.68	2945
970.00	1205.1	1174.3	2421	2473	80.94	174.08	293.00	3009
972.00	1208.1	1177.3	2423	2474	80.70	173.62	292.28	2923
974.00	1211.1	1180.3	2424	2475	80.49	173.19	291.60	3073
976.00	1214.1	1183.3	2425	2476	80.25	172.71	290.86	2954
978.00	1217.1	1186.3	2426	2477	80.03	172.27	290.18	3008
980.00	1220.1	1189.3	2427	2478	79.81	171.82	289.47	2886
982.00	1223.0	1192.2	2428	2479	79.60	171.40	288.83	2903
984.00	1225.9	1195.1	2429	2480	79.39	170.99	288.19	2875
986.00	1228.8	1198.0	2430	2481	79.19	170.58	287.56	2913
988.00	1231.7	1200.9	2431	2482	78.98	170.17	286.91	2872
990.00	1234.6	1203.8	2432	2483	78.78	169.76	286.29	2918
992.00	1237.5	1206.7	2433	2484	78.58	169.35	285.64	2840
994.00	1240.3	1209.5	2434	2485	78.39	168.96	285.04	2845
996.00	1243.2	1212.4	2434	2485	78.19	168.58	284.44	2769
998.00	1245.9	1215.1	2435	2486	78.01	168.21	283.87	2921
1000.00	1248.8	1218.0	2436	2487	77.81	167.80	283.24	2832
1002.00	1251.7	1220.9	2437	2488	77.62	167.43	282.65	2877
1004.00	1254.6	1223.8	2438	2489	77.43	167.04	282.04	2885
1006.00	1257.4	1226.6	2439	2489	77.23	166.64	281.43	

TWO-WAY TRAVEL TIME FROM SRD MS	VERTICAL 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	1260.3	1229.5	2440	2490	77.04	166.25	280.82	2895
1010.00	1263.2	1232.4	2440	2491	76.85	165.87	280.22	2882
1012.00	1266.1	1235.3	2441	2492	76.65	165.47	279.59	2932
1014.00	1269.0	1238.2	2442	2493	76.47	165.10	279.01	2838
1016.00	1271.8	1241.0	2443	2494	76.28	164.72	278.43	2859
1018.00	1274.6	1243.8	2444	2494	76.10	164.37	277.87	2799
1020.00	1277.5	1246.7	2445	2495	75.92	163.99	277.28	2878
1022.00	1280.5	1249.7	2446	2496	75.72	163.59	276.66	2948
1024.00	1283.5	1252.7	2447	2497	75.52	163.19	276.02	3006
1026.00	1286.2	1255.4	2447	2498	75.36	162.85	275.51	2725
1028.00	1289.2	1258.4	2448	2499	75.16	162.46	274.89	2965
1030.00	1292.1	1261.3	2449	2499	74.97	162.08	274.29	2923
1032.00	1294.9	1264.1	2450	2500	74.80	161.73	273.74	2819
1034.00	1297.7	1266.9	2451	2501	74.63	161.37	273.19	2840
1036.00	1300.5	1269.7	2451	2501	74.46	161.04	272.67	2759
1038.00	1303.3	1272.5	2452	2502	74.30	160.71	272.15	2758
1040.00	1306.0	1275.2	2452	2502	74.14	160.39	271.65	2718
1042.00	1308.9	1278.1	2453	2503	73.95	160.01	271.05	2961
1044.00	1311.7	1280.9	2454	2504	73.79	159.67	270.52	2791
1046.00	1314.6	1283.8	2455	2505	73.61	159.33	269.98	2839
1048.00	1317.4	1286.6	2455	2505	73.45	158.99	269.45	2822
1050.00	1320.4	1289.6	2456	2506	73.26	158.61	268.85	2979
1052.00	1323.2	1292.4	2457	2507	73.09	158.27	268.31	2838
1054.00	1326.0	1295.2	2458	2507	72.93	157.94	267.79	2801

TWO-WAY TRAVEL TIME FROM SRD MS	VERTICAL 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	1329.0	1298.2	2459	2508	72.75	157.56	267.20	2967
1058.00	1331.8	1301.0	2459	2509	72.59	157.24	266.69	2795
1060.00	1334.7	1303.9	2460	2510	72.41	156.87	266.12	2949
1062.00	1337.6	1306.8	2461	2511	72.24	156.53	265.58	2869
1064.00	1340.6	1309.8	2462	2512	72.05	156.15	264.98	3019
1066.00	1343.3	1312.5	2462	2512	71.91	155.86	264.52	2666
1068.00	1346.0	1315.2	2463	2512	71.76	155.55	264.04	2751
1070.00	1348.9	1318.1	2464	2513	71.60	155.22	263.52	2837
1072.00	1351.5	1320.7	2464	2513	71.46	154.94	263.08	2639
1074.00	1354.1	1323.3	2464	2513	71.33	154.68	262.67	2548
1076.00	1356.9	1326.1	2465	2514	71.17	154.35	262.15	2869
1078.00	1359.9	1329.1	2466	2515	70.99	154.00	261.59	2956
1080.00	1362.8	1332.0	2467	2516	70.82	153.64	261.03	2967
1082.00	1365.9	1335.1	2468	2517	70.64	153.28	260.45	3023
1084.00	1369.1	1338.3	2469	2518	70.44	152.86	259.78	3238
1086.00	1372.2	1341.4	2470	2520	70.25	152.46	259.15	3132
1088.00	1375.2	1344.4	2471	2521	70.08	152.11	258.60	2985
1090.00	1378.1	1347.3	2472	2521	69.91	151.78	258.07	2897
1092.00	1381.1	1350.3	2473	2522	69.74	151.43	257.52	2995
1094.00	1384.0	1353.2	2474	2523	69.59	151.12	257.02	2839
1096.00	1386.9	1356.1	2475	2524	69.43	150.79	256.50	2923
1098.00	1389.9	1359.1	2476	2525	69.26	150.44	255.94	3004
1100.00	1392.8	1362.0	2476	2525	69.10	150.12	255.44	2886
1102.00	1395.6	1364.8	2477	2526	68.95	149.81	254.94	2854

TWO-WAY TRAVEL TIME FROM SRD MS	VERTICAL 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	1398.6	1367.8	2478	2527	68.78	149.46	254.39	3019
1106.00	1401.6	1370.8	2479	2528	68.62	149.13	253.86	2959
1108.00	1404.7	1373.9	2480	2529	68.44	148.76	253.28	3104
1110.00	1407.7	1376.9	2481	2530	68.28	148.43	252.75	2963
1112.00	1410.7	1379.9	2482	2531	68.12	148.10	252.21	3009
1114.00	1413.6	1382.8	2483	2531	67.97	147.78	251.72	2891
1116.00	1416.4	1385.6	2483	2532	67.82	147.48	251.23	2866
1118.00	1419.4	1388.6	2484	2533	67.66	147.16	250.72	2950
1120.00	1422.4	1391.6	2485	2534	67.49	146.81	250.17	3065
1122.00	1425.3	1394.5	2486	2535	67.35	146.51	249.69	2869
1124.00	1428.2	1397.4	2486	2535	67.20	146.21	249.20	2888
1126.00	1431.1	1400.3	2487	2536	67.05	145.91	248.73	2861
1128.00	1433.9	1403.1	2488	2537	66.91	145.61	248.26	2863
1130.00	1436.7	1405.9	2488	2537	66.78	145.34	247.82	2777
1132.00	1439.4	1408.6	2489	2537	66.64	145.07	247.39	2743
1134.00	1442.2	1411.4	2489	2538	66.51	144.80	246.97	2740
1136.00	1444.9	1414.1	2490	2538	66.38	144.54	246.54	2745
1138.00	1447.9	1417.1	2490	2539	66.24	144.23	246.06	2929
1140.00	1450.7	1419.9	2491	2539	66.10	143.95	245.61	2828
1142.00	1453.7	1422.9	2492	2540	65.94	143.62	245.08	3046
1144.00	1456.7	1425.9	2493	2541	65.79	143.31	244.59	2954
1146.00	1459.8	1429.0	2494	2542	65.63	142.97	244.04	3134
1148.00	1462.9	1432.1	2495	2543	65.47	142.64	243.52	3049
1150.00	1465.9	1435.1	2496	2544	65.32	142.33	243.01	3026

TWO-WAY TRAVEL TIME FROM SRD MS	VERTICAL DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
1152.00	1468.9	1438.1	2497	2545	65.16	142.01	242.50	3033
1154.00	1471.8	1441.0	2497	2546	65.02	141.72	242.03	2906
1156.00	1474.6	1443.8	2498	2546	64.89	141.45	241.61	2799
1158.00	1477.6	1446.8	2499	2547	64.75	141.15	241.12	2979
1160.00	1480.7	1449.9	2500	2548	64.59	140.82	240.59	3126
1162.00	1483.6	1452.8	2501	2549	64.45	140.53	240.13	2894
1164.00	1486.7	1455.9	2501	2550	64.30	140.22	239.63	3036
1166.00	1489.9	1459.1	2503	2551	64.13	139.88	239.08	3189
1168.00	1492.9	1462.1	2504	2552	63.99	139.58	238.59	3009
1170.00	1495.8	1465.0	2504	2553	63.85	139.29	238.13	2964
1172.00	1498.8	1468.0	2505	2553	63.71	138.99	237.66	2964
1174.00	1502.0	1471.2	2506	2554	63.55	138.66	237.12	3171
1176.00	1505.0	1474.2	2507	2555	63.40	138.35	236.62	3079
1178.00	1508.1	1477.3	2508	2556	63.25	138.04	236.12	3070
1180.00	1511.2	1480.4	2509	2557	63.10	137.73	235.62	3075
1182.00	1514.7	1483.9	2511	2559	62.91	137.33	234.98	3490
1184.00	1517.8	1487.0	2512	2560	62.76	137.01	234.46	3146
1186.00	1521.3	1490.5	2513	2562	62.57	136.63	233.83	3459
1188.00	1524.9	1494.1	2515	2564	62.36	136.19	233.13	3656
1190.00	1528.3	1497.5	2517	2566	62.19	135.84	232.55	3353
1192.00	1531.5	1500.7	2518	2567	62.04	135.52	232.03	3182
1194.00	1534.5	1503.7	2519	2568	61.90	135.22	231.55	3064
1196.00	1537.5	1506.7	2520	2569	61.76	134.95	231.11	2962
1198.00	1540.3	1509.5	2520	2569	61.65	134.70	230.72	2798

TWO-WAY TRAVEL TIME FROM SRD MS	VERTICAL DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
1200.00	1543.0	1512.2	2520	2569	61.54	134.48	230.36	2691
1202.00	1545.7	1514.9	2521	2570	61.43	134.25	230.00	2728
1204.00	1548.8	1518.0	2522	2570	61.29	133.97	229.53	3044
1206.00	1552.0	1521.2	2523	2572	61.14	133.65	229.02	3195
1208.00	1555.0	1524.2	2523	2572	61.01	133.37	228.57	3028
1210.00	1557.9	1527.1	2524	2573	60.88	133.11	228.15	2942
1212.00	1561.6	1530.8	2526	2575	60.69	132.70	227.49	3631
1214.00	1564.5	1533.7	2527	2576	60.56	132.44	227.05	2977
1216.00	1567.9	1537.1	2528	2577	60.40	132.09	226.49	3387
1218.00	1570.7	1539.9	2529	2578	60.28	131.86	226.11	2809
1220.00	1573.6	1542.8	2529	2578	60.16	131.60	225.70	2912
1222.00	1576.8	1546.0	2530	2579	60.02	131.31	225.22	3154
1224.00	1580.0	1549.2	2531	2581	59.87	131.00	224.72	3248
1226.00	1582.7	1551.9	2532	2581	59.77	130.79	224.39	2643
1228.00	1585.4	1554.6	2532	2581	59.67	130.58	224.05	2679
1230.00	1588.3	1557.5	2533	2582	59.55	130.33	223.64	2952
1232.00	1591.6	1560.8	2534	2583	59.40	130.02	223.13	3279
1234.00	1594.8	1564.0	2535	2584	59.26	129.71	222.64	3225
1236.00	1598.2	1567.4	2536	2586	59.10	129.38	222.10	3367
1238.00	1601.7	1570.9	2538	2587	58.93	129.02	221.50	3551
1240.00	1605.0	1574.2	2539	2589	58.78	128.71	220.99	3295
1242.00	1608.5	1577.7	2541	2590	58.62	128.37	220.44	3447
1244.00	1611.8	1581.0	2542	2592	58.47	128.05	219.93	3327
1246.00	1615.0	1584.2	2543	2593	58.33	127.76	219.45	3225

TWO-WAY TRAVEL TIME FROM SRD MS	VERTICAL 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	1618.3	1587.5	2544	2594	58.18	127.45	218.95	3302
1250.00	1621.6	1590.8	2545	2595	58.04	127.15	218.45	3292
1252.00	1624.8	1594.0	2546	2596	57.90	126.86	217.98	3204
1254.00	1628.3	1597.5	2548	2598	57.74	126.52	217.42	3501
1256.00	1631.7	1600.9	2549	2599	57.59	126.21	216.92	3352
1258.00	1635.1	1604.3	2550	2601	57.44	125.90	216.41	3364
1260.00	1638.4	1607.6	2552	2602	57.30	125.60	215.92	3305
1262.00	1641.8	1611.0	2553	2604	57.15	125.29	215.40	3399
1264.00	1645.1	1614.3	2554	2605	57.01	124.99	214.92	3308
1266.00	1648.4	1617.6	2556	2606	56.87	124.68	214.42	3368
1268.00	1651.8	1621.0	2557	2608	56.72	124.37	213.90	3410
1270.00	1655.2	1624.4	2558	2609	56.58	124.07	213.42	3344
1272.00	1658.6	1627.8	2559	2610	56.43	123.77	212.92	3380
1274.00	1662.0	1631.2	2561	2612	56.29	123.46	212.41	3422
1276.00	1665.4	1634.6	2562	2613	56.14	123.16	211.92	3376
1278.00	1668.7	1637.9	2563	2615	56.00	122.86	211.43	3359
1280.00	1672.1	1641.3	2565	2616	55.86	122.56	210.94	3400
1282.00	1674.8	1644.0	2565	2616	55.77	122.38	210.64	2673
1284.00	1677.5	1646.7	2565	2616	55.68	122.19	210.34	2702
1286.00	1680.5	1649.7	2566	2617	55.58	121.97	209.97	2968
1288.00	1683.8	1653.0	2567	2618	55.44	121.67	209.49	3380
1290.00	1687.2	1656.4	2568	2620	55.30	121.38	209.00	3396
1292.00	1690.6	1659.8	2569	2621	55.16	121.10	208.54	3327
1294.00	1693.8	1663.0	2570	2622	55.04	120.83	208.10	3255

TWO-WAY TRAVEL TIME FROM SRD MS	VERTICAL 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	1697.1	1666.3	2571	2623	54.91	120.56	207.66	3273
1298.00	1700.4	1669.6	2573	2624	54.78	120.29	207.21	3276
1300.00	1703.7	1672.9	2574	2625	54.65	120.02	206.77	3304
1302.00	1706.5	1675.7	2574	2626	54.56	119.83	206.46	2777
1304.00	1709.5	1678.7	2575	2626	54.45	119.59	206.07	3079
1306.00	1712.7	1681.9	2576	2627	54.33	119.34	205.66	3189
1308.00	1716.2	1685.4	2577	2629	54.19	119.04	205.17	3465
1310.00	1719.4	1688.6	2578	2630	54.07	118.79	204.75	3239
1312.00	1722.7	1691.9	2579	2631	53.95	118.52	204.31	3312
1314.00	1726.1	1695.3	2580	2632	53.82	118.25	203.87	3322
1316.00	1729.9	1699.1	2582	2634	53.65	117.90	203.29	3809
1318.00	1733.0	1702.2	2583	2635	53.54	117.67	202.90	3121
1320.00	1736.3	1705.5	2584	2636	53.42	117.40	202.47	3312
1322.00	1739.8	1709.0	2585	2638	53.28	117.11	201.99	3502
1324.00	1743.0	1712.2	2586	2639	53.17	116.87	201.60	3158
1326.00	1746.2	1715.4	2587	2640	53.05	116.63	201.20	3220
1328.00	1749.5	1718.7	2588	2641	52.93	116.37	200.76	3348
1330.00	1752.9	1722.1	2590	2642	52.81	116.10	200.33	3337
1332.00	1755.7	1724.9	2590	2642	52.72	115.92	200.04	2796
1334.00	1759.1	1728.3	2591	2644	52.59	115.65	199.58	3437
1336.00	1762.7	1731.9	2593	2645	52.45	115.35	199.08	3616
1338.00	1766.2	1735.4	2594	2647	52.32	115.07	198.62	3449
1340.00	1769.8	1739.0	2596	2649	52.18	114.77	198.12	3634
1342.00	1773.3	1742.5	2597	2650	52.05	114.49	197.67	3459

TWO-WAY TRAVEL TIME FROM SRD MS	VERTICAL DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
1344.00	1776.0	1745.2	2597	2650	51.97	114.33	197.40	2701
1346.00	1779.7	1748.9	2599	2652	51.82	114.01	196.87	3771
1348.00	1783.4	1752.6	2600	2654	51.68	113.71	196.37	3636
1350.00	1786.4	1755.6	2601	2654	51.58	113.50	196.03	3070
1352.00	1789.5	1758.7	2602	2655	51.48	113.29	195.67	3097
1354.00	1792.9	1762.1	2603	2656	51.36	113.04	195.26	3340
1356.00	1796.4	1765.6	2604	2658	51.23	112.77	194.81	3503
1358.00	1799.8	1769.0	2605	2659	51.11	112.51	194.39	3395
1360.00	1803.8	1773.0	2607	2661	50.95	112.16	193.80	4009
1362.00	1807.5	1776.7	2609	2663	50.81	111.86	193.30	3702
1364.00	1810.9	1780.1	2610	2665	50.69	111.60	192.89	3411
1366.00	1814.4	1783.6	2611	2666	50.56	111.34	192.44	3527
1368.00	1817.7	1786.9	2612	2667	50.46	111.11	192.06	3256
1370.00	1821.4	1790.6	2614	2669	50.32	110.81	191.57	3713
1372.00	1825.1	1794.3	2616	2671	50.18	110.52	191.08	3721
1374.00	1828.4	1797.6	2617	2672	50.07	110.29	190.70	3297
1376.00	1832.0	1801.2	2618	2673	49.95	110.02	190.26	3548
1378.00	1835.9	1805.1	2620	2675	49.80	109.70	189.72	3896
1380.00	1839.1	1808.3	2621	2676	49.69	109.48	189.35	3273
1382.00	1842.5	1811.7	2622	2677	49.58	109.25	188.97	3336
1384.00	1846.1	1815.3	2623	2679	49.45	108.97	188.51	3645
1386.00	1849.8	1819.0	2625	2681	49.32	108.69	188.05	3665
1388.00	1853.0	1822.2	2626	2681	49.23	108.48	187.71	3189
1390.00	1855.9	1825.1	2626	2682	49.14	108.31	187.41	2967

TWO-WAY TRAVEL TIME FROM SRD MS	VERTICAL 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	1859.5	1828.7	2628	2683	49.02	108.04	186.97	3616
1394.00	1863.0	1832.2	2629	2685	48.90	107.79	186.56	3493
1396.00	1866.9	1836.1	2630	2687	48.76	107.50	186.06	3824
1398.00	1870.0	1839.2	2631	2687	48.67	107.30	185.74	3099
1400.00	1873.4	1842.6	2632	2689	48.56	107.06	185.34	3476
1402.00	1876.9	1846.1	2633	2690	48.45	106.83	184.95	3424
1404.00	1879.5	1848.7	2634	2690	48.39	106.69	184.72	2677
1406.00	1882.1	1851.3	2633	2690	48.32	106.56	184.51	2606
1408.00	1885.1	1854.3	2634	2690	48.24	106.39	184.22	2959
1410.00	1888.4	1857.6	2635	2691	48.14	106.17	183.87	3307
1412.00	1891.7	1860.9	2636	2692	48.05	105.97	183.52	3244
1414.00	1894.5	1863.7	2636	2692	47.97	105.81	183.26	2861
1416.00	1897.7	1866.9	2637	2693	47.88	105.62	182.94	3147
1418.00	1900.9	1870.1	2638	2694	47.79	105.42	182.61	3209
1420.00	1904.2	1873.4	2639	2695	47.69	105.20	182.26	3319
1422.00	1907.6	1876.8	2640	2696	47.58	104.98	181.89	3415
1424.00	1910.5	1879.7	2640	2696	47.51	104.82	181.63	2877
1426.00	1913.9	1883.1	2641	2697	47.41	104.60	181.26	3392
1428.00	1916.6	1885.8	2641	2697	47.34	104.46	181.02	2761
1430.00	1919.5	1888.7	2642	2698	47.27	104.30	180.76	2902
1432.00	1922.2	1891.4	2642	2698	47.20	104.17	180.54	2683
1434.00	1926.1	1895.3	2643	2700	47.07	103.89	180.08	3834
1436.00	1929.5	1898.7	2644	2701	46.97	103.66	179.70	3466
1438.00	1932.6	1901.8	2645	2701	46.88	103.48	179.40	3111

TWO-WAY TRAVEL TIME FROM SRD MS	VERTICAL DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
1440.00	1935.4	1904.6	2645	2702	46.82	103.34	179.16	2795
1442.00	1938.4	1907.6	2646	2702	46.74	103.18	178.90	2936
1444.00	1941.8	1911.0	2647	2703	46.64	102.96	178.53	3475
1446.00	1945.2	1914.4	2648	2704	46.54	102.75	178.18	3345
1448.00	1948.2	1917.4	2648	2705	46.46	102.59	177.91	3010
1450.00	1951.2	1920.4	2649	2705	46.38	102.42	177.63	3052
1452.00	1954.4	1923.6	2650	2706	46.30	102.24	177.33	3114
1454.00	1957.6	1926.8	2650	2706	46.21	102.05	177.01	3259
1456.00	1961.0	1930.2	2651	2708	46.11	101.84	176.66	3410
1458.00	1964.4	1933.6	2652	2709	46.02	101.63	176.31	3402
1460.00	1967.7	1936.9	2653	2709	45.93	101.44	175.99	3281
1462.00	1970.9	1940.1	2654	2710	45.84	101.25	175.69	3189
1464.00	1974.1	1943.3	2655	2711	45.76	101.07	175.39	3181
1466.00	1977.6	1946.8	2656	2712	45.65	100.85	175.01	3554
1468.00	1981.1	1950.3	2657	2713	45.56	100.64	174.66	3444
1470.00	1984.4	1953.6	2658	2714	45.46	100.45	174.33	3323
1472.00	1987.9	1957.1	2659	2716	45.36	100.23	173.97	3500
1474.00	1991.2	1960.4	2660	2716	45.28	100.05	173.66	3259
1476.00	1994.7	1963.9	2661	2718	45.17	99.82	173.29	3580
1478.00	1997.7	1966.9	2662	2718	45.10	99.67	173.04	2960
1480.00	2001.0	1970.2	2662	2719	45.02	99.48	172.73	3294
1482.00	2004.3	1973.5	2663	2720	44.93	99.29	172.41	3318
1484.00	2007.6	1976.8	2664	2721	44.84	99.10	172.09	3337
1486.00	2010.8	1980.0	2665	2721	44.76	98.94	171.81	3136

TWO-WAY TRAVEL TIME FROM SRD MS	VERTICAL 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
1488.00	2014.2	1983.4	2666	2722	44.67	98.74	171.48	3405
1490.00	2017.3	1986.5	2666	2723	44.60	98.58	171.21	3070
1492.00	2020.8	1990.0	2668	2724	44.50	98.37	170.86	3533
1494.00	2024.2	1993.4	2668	2725	44.41	98.18	170.54	3358
1496.00	2026.5	1995.7	2668	2725	44.37	98.09	170.40	2305
1498.00	2029.3	1998.5	2668	2725	44.31	97.96	170.18	2799
1500.00	2032.6	2001.8	2669	2726	44.22	97.77	169.87	3349
1502.00	2036.0	2005.2	2670	2727	44.13	97.58	169.54	3410
1504.00	2039.8	2009.0	2672	2728	44.02	97.34	169.14	3821
1506.00	2043.7	2012.9	2673	2730	43.90	97.09	168.72	3851
1508.00	2047.4	2016.6	2675	2732	43.80	96.86	168.33	3747
1510.00	2050.4	2019.6	2675	2732	43.73	96.72	168.10	2918
1512.00	2052.9	2022.1	2675	2732	43.68	96.62	167.92	2598
1514.00	2056.0	2025.2	2675	2732	43.61	96.47	167.68	3027
1516.00	2058.9	2028.1	2676	2733	43.55	96.33	167.44	2966
1518.00	2062.2	2031.4	2676	2733	43.47	96.15	167.15	3257
1520.00	2065.6	2034.8	2677	2734	43.38	95.97	166.84	3387
1522.00	2069.0	2038.2	2678	2735	43.30	95.79	166.54	3376
1524.00	2072.4	2041.6	2679	2736	43.21	95.60	166.22	3438
1526.00	2075.8	2045.0	2680	2737	43.12	95.42	165.91	3379
1528.00	2079.3	2048.5	2681	2738	43.03	95.22	165.59	3494
1530.00	2082.9	2052.1	2683	2740	42.94	95.01	165.23	3643
1532.00	2086.5	2055.7	2684	2741	42.84	94.82	164.90	3547
1534.00	2090.1	2059.3	2685	2742	42.75	94.61	164.56	3604

TWO-WAY TRAVEL TIME FROM SRD MS	VERTICAL DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
1536.00	2093.7	2062.9	2686	2743	42.66	94.41	164.22	3585
1538.00	2097.2	2066.4	2687	2745	42.57	94.21	163.89	3572
1540.00	2100.8	2070.0	2688	2746	42.48	94.02	163.56	3543
1542.00	2104.2	2073.4	2689	2747	42.39	93.83	163.25	3472
1544.00	2108.0	2077.2	2691	2748	42.29	93.62	162.89	3717
1546.00	2112.0	2081.2	2692	2751	42.17	93.36	162.46	4078
1548.00	2115.8	2085.0	2694	2752	42.07	93.15	162.10	3742
1550.00	2119.3	2088.5	2695	2753	41.99	92.96	161.78	3511
1552.00	2123.1	2092.3	2696	2755	41.89	92.75	161.42	3798
1554.00	2126.9	2096.1	2698	2756	41.79	92.53	161.05	3781
1556.00	2130.7	2099.9	2699	2758	41.68	92.31	160.67	3880
1558.00	2134.7	2103.9	2701	2760	41.57	92.07	160.27	3991
1560.00	2138.8	2108.0	2703	2762	41.46	91.82	159.85	4085
1562.00	2142.6	2111.8	2704	2764	41.36	91.61	159.49	3800
1564.00	2146.3	2115.5	2705	2765	41.27	91.41	159.16	3676
1566.00	2150.5	2119.7	2707	2767	41.15	91.16	158.73	4158
1568.00	2154.0	2123.2	2708	2768	41.07	90.97	158.42	3552
1570.00	2157.9	2127.1	2710	2770	40.97	90.76	158.05	3879
1572.00	2161.4	2130.6	2711	2771	40.88	90.58	157.75	3536
1574.00	2164.8	2134.0	2712	2772	40.81	90.41	157.47	3419
1576.00	2168.6	2137.8	2713	2774	40.72	90.21	157.13	3723
1578.00	2172.2	2141.4	2714	2775	40.63	90.03	156.82	3603
1580.00	2175.9	2145.1	2715	2776	40.54	89.83	156.48	3764
1582.00	2179.7	2148.9	2717	2778	40.44	89.62	156.14	3811

TWO-WAY TRAVEL TIME FROM SRD MS	VERTICAL 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
1584.00	2183.2	2152.4	2718	2779	40.36	89.45	155.84	3507
1586.00	2187.0	2156.2	2719	2780	40.27	89.26	155.52	3717
1588.00	2191.0	2160.2	2721	2782	40.17	89.03	155.14	3998
1590.00	2194.2	2163.4	2721	2783	40.10	88.89	154.89	3245
1592.00	2197.8	2167.0	2722	2784	40.02	88.71	154.60	3578
1594.00	2201.4	2170.6	2723	2785	39.94	88.53	154.30	3586
1596.00	2205.1	2174.3	2725	2786	39.85	88.34	153.97	3742
1598.00	2209.0	2178.2	2726	2788	39.76	88.13	153.62	3905
1600.00	2212.6	2181.8	2727	2789	39.67	87.95	153.32	3631
1602.00	2216.9	2186.1	2729	2792	39.56	87.72	152.91	4202
1604.00	2220.6	2189.8	2730	2793	39.47	87.52	152.58	3784

PE906837

This is an enclosure indicator page.
The enclosure PE906837 is enclosed within the container PE906836 at this location in this document.

The enclosure PE906837 has the following characteristics:

ITEM_BARCODE	= PE906837
CONTAINER_BARCODE	= PE906836
NAME	= Verical seismic Profile
BASIN	= GIPPSLAND
PERMIT	= VIC/L10
TYPE	= WELL
SUBTYPE	= VELOCITY_CHART
DESCRIPTION	= Vertical Seismic Profile (enclosure from Seismic Survey--attachment to WCR) for Moonfish-2
REMARKS	=
DATE_CREATED	= 8/01/95
DATE_RECEIVED	=
W_NO	= W1114
WELL_NAME	= MOONFISH-2
CONTRACTOR	= SCHLUMBERGER
CLIENT_OP_CO	= ESSO AUSTRALIA LTD

(Inserted by DNRE - Vic Govt Mines Dept)

PE906838

This is an enclosure indicator page.
The enclosure PE906838 is enclosed within the container PE906836 at this location in this document.

The enclosure PE906838 has the following characteristics:

ITEM_BARCODE	= PE906838
CONTAINER_BARCODE	= PE906836
NAME	= Geogram/Syntetic Seismogram
BASIN	= GIPPSLAND
PERMIT	= VIC/L10
TYPE	= WELL
SUBTYPE	= SYNTH_SIESMOGRAM
DESCRIPTION	= Geogram/Synthetic Seismogram, 25 Hz, (enclosure from Seismic Survey--attachment to WCR) for Moonfish-2
REMARKS	=
DATE_CREATED	= 8/01/95
DATE_RECEIVED	=
W_NO	= W1114
WELL_NAME	= MOONFISH-2
CONTRACTOR	= SCHLUMBERGER
CLIENT_OP_CO	= ESSO AUSTRALIA LTD

(Inserted by DNRE - Vic Govt Mines Dept)

PE906839

This is an enclosure indicator page.
The enclosure PE906839 is enclosed within the container PE906836 at this location in this document.

The enclosure PE906839 has the following characteristics:

ITEM_BARCODE	= PE906839
CONTAINER_BARCODE	= PE906836
NAME	= Geogram/Syntetic Seismogram
BASIN	= GIPPSLAND
PERMIT	= VIC/L10
TYPE	= WELL
SUBTYPE	= SYNTH_SIESMOGRAM
DESCRIPTION	= Geogram/Synthetic Seismogram, 35 Hz, (enclosure from Seismic Survey--attachment to WCR) for Moonfish-2
REMARKS	=
DATE_CREATED	= 8/01/95
DATE_RECEIVED	=
W_NO	= W1114
WELL_NAME	= MOONFISH-2
CONTRACTOR	= SCHLUMBERGER
CLIENT_OP_CO	= ESSO AUSTRALIA LTD

(Inserted by DNRE - Vic Govt Mines Dept)

PE906840

This is an enclosure indicator page.
The enclosure PE906840 is enclosed within the container PE906836 at this location in this document.

The enclosure PE906840 has the following characteristics:

ITEM_BARCODE	= PE906840
CONTAINER_BARCODE	= PE906836
NAME	= Geogram/Syntetic Seismogram
BASIN	= GIPPSLAND
PERMIT	= VIC/L10
TYPE	= WELL
SUBTYPE	= SYNTH_SIESMOGRAM
DESCRIPTION	= Geogram/Synthetic Seismogram, 45 Hz, (enclosure from Seismic Survey--attachment to WCR) for Moonfish-2
REMARKS	=
DATE_CREATED	= 8/01/95
DATE_RECEIVED	=
W_NO	= W1114
WELL_NAME	= MOONFISH-2
CONTRACTOR	= SCHLUMBERGER
CLIENT_OP_CO	= ESSO AUSTRALIA LTD

(Inserted by DNRE - Vic Govt Mines Dept)

PE604523

This is an enclosure indicator page.
The enclosure PE604523 is enclosed within the container PE906836 at this location in this document.

The enclosure PE604523 has the following characteristics:

ITEM_BARCODE	= PE604523
CONTAINER_BARCODE	= PE906836
NAME	= Drift Corrected Sonic
BASIN	= GIPPSLAND
PERMIT	= VIC/L10
TYPE	= WELL
SUBTYPE	= VELOCITY_CHART
DESCRIPTION	= Drift Corrected Sonic (enclosure from Seismic Survey--attachment to WCR) for Moonfish-2
REMARKS	=
DATE_CREATED	= 8/01/95
DATE_RECEIVED	=
W_NO	= W1114
WELL_NAME	= MOONFISH-2
CONTRACTOR	= SCHLUMBERGER
CLIENT_OP_CO	= ESSO AUSTRALIA LTD

(Inserted by DNRE - Vic Govt Mines Dept)

PE906841

This is an enclosure indicator page.
The enclosure PE906841 is enclosed within the container PE906836 at this location in this document.

The enclosure PE906841 has the following characteristics:

ITEM_BARCODE	= PE906841
CONTAINER_BARCODE	= PE906836
NAME	= Seismic Calibration Log
BASIN	= GIPPSLAND
PERMIT	= VIC/L10
TYPE	= WELL
SUBTYPE	= VELOCITY_CHART
DESCRIPTION	= Seismic Calibration Log (enclosure from Seismic Survey--attachment to WCR) for Moonfish-2
REMARKS	=
DATE_CREATED	= 8/01/95
DATE_RECEIVED	=
W_NO	= W1114
WELL_NAME	= MOONFISH-2
CONTRACTOR	= SCHLUMBERGER
CLIENT_OP_CO	= ESSO AUSTRALIA LTD

(Inserted by DNRE - Vic Govt Mines Dept)