SCHLUMBERGER

APP. 5 FROM VOL. I OF WCR. (W1097)

ESSO AUSTRALIA LTD

WELL SEISMIC PROCESSING REPORT

ZERO OFFSET VSP AND GEOGRAM

BLACKBACK-3

Melbourne Log Interpretation Centre
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MELBOURNE VIC 3004

GEOGRAM PLOTS

Drift Corrected Sonic
Seismic Calibration Log
20 hz zero phase Geogram
25 hz zero phase Geogram
35 hz zero phase Geogram
45 hz zero phase Geogram
Geograms with -90 degr. phase shift

VSP PLOTS

Plot 1	Stacked data
Plot 2	Amplitude Recovery
Plot 3	Velocity Filter
Plot 4	Waveshaping Deconvolution Zero Phase
Plot 5	Waveshaping Deconvolution - Corridor Stack
Plot 5A	Waveshaping Deconvolution - Corridor Stack (-90 degr. phase shift)
Plot 6	VSP and Geogram Composite - normal polarity
Plot 7	VSP and Geogram Composite - reverse polarity

Schlumberger

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ESSO AUSTRALIA LTD.

WELL SEISMIC PROCESSING REPORT

Zero Offset VSP and Geogram

BLACKBACK-3

FIELD : BLACKBACK

COUNTRY : AUSTRALIA

COORDINATES : 038 31' 34.85" S
: 148 31' 05.50" E

LOCATION : VICTORIA

DATE OF SURVEY : 06 APRIL 1994

REFERENCE NO. : VSP :561011
GEOGRAM :561012

INTERVAL : 3100 - 500 M

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1. Introduction

A vertical seismic profile was recorded using the Combinable Seismic Imager tool (CSI) at the *BLACKBACK-3* well. The data was processed using the conventional zero offset processing chain using only the vertical component.

2. Data Acquisition

The data was acquired in single logging run using the three components Combinable Seismic Imager tool (CSI). An array of three sleeve air guns was as the source, positioned 5 meters below the sea level. Recording was made on the Schlumberger Maxis 500 Unit using DLIS format .

Table 1. Survey Parameters

Elevation of KB	25.0 M
Elevation of DF	24.7 M
Elevation of GL	- 318.0 M
Total Depth	3100 M
Energy Source	3 X 150 cu in airguns
Source Offset	58 M
Source Depth	5 M below MSL
Reference Sensor	Hydrophone
Hydrophone Offset	58 M
Hydrophone Depth	12 M below MSL
Source & Hyd. Azimuth	229 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 3100.0 to 500.0 metres below KB. 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 (500.0 metres below KB) 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 - 500	0	-	0
500 - 2111	3.10	-	3.10
2111 - 2797	8.46	-	8.46
2797 - 3100	-	253.14	-4.29

4. Synthetic Seismogram Processing

GEOGRAM plots were generated using 20, 25, 35, and 45 Hz zero phase ricker wavelets, and -90 degr. phase rotation.

The presentations include both normal and reverse polarity on a time scale of 40 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.

5. VSP Processing

The vertical component of the VSP data was processed using the conventional zero offset vertical incident processing chain. The following subsections describe the main aspects of the processing chain.

5.1 Stacking

A median stack was performed on the vertical and horizontal component data. The surface sensor (hydrophone) breaks are used as the zero time for stacking. The break time of each trace is recomputed after stacking.

The data quality is fairly good with the vertical component stacks displaying a consistent signature and a high signal to noise ratio, as seen on Plo1 1.

5.2 Spherical Divergence Correction and Bandpass Filter

A bandpass filter of 5-100 hertz bandwidth was applied and time varying gain function of the exponential form :

$$GAIN(T) = \left(\frac{T}{T_o}\right)^{\alpha}$$

where T is the recorded time, T_o is the first break time and $\alpha = 1.0$

Trace equalisation was applied by normalising the RMS amplitude of the first break to correct for transmission losses of the direct wave. A normalisation window of 100 millisecs was used (see plot 2).

5.3 Velocity filter

The downgoing coherent energy is estimated using a three levels median velocity filter. The filter array is moved down one level after each computation and the process is repeated level by level over the entire dataset. As a result, the deepest and shallowest levels are lost because of edge effects.

The residual wavefield is obtained by subtracting the downgoing coherent energy from the total wavefield. The residual wavefield is dominated by reflected compressional events (plot 3).

The upgoing wavefield is enhanced by making a median stack of the upgoing aligned traces using a 5 levels filter. The data is now displayed in two way time (plot 3).

5.4 Waveshaping Deconvolution

The waveshaping deconvolution operator is a double sided operator and is designed trace by trace opening 20 ms before the first break with a window length of 1000 ms. The desired outputs were chosen to be zero phase with a band width of 5-80 Hz. Once the design is made upon the downgoing wavefield, it is applied to the downgoing and subtracted wavefield at the same level. The upgoing compressional wavefield is enhanced in an exactly analogous manner to before.

The result of waveshaping deconvolution on the residual wavefield is shown in Plot 4. The deconvolution is applied before any coherency enhancement in order to collapse the multiple sequence of shear arrivals, diffractions or out of plane reflections.

A corridor stack was computed on the data after zero phase waveshaping deconvolution by defining a timing window 150 msec wide along the time depth curve and stacking the data onto a single trace. This trace under normal circumstances should satisfy the assumption of one dimensionality and provide the best seismic representation of the borehole. This is displayed on Plot 5 .
Plot 5A shows the enhanced upgoing wavefield and corridor stacks with -90 degr. phase rotation.

5.5 VSP Acoustic Impedance Inversion

The zero phase waveshaping should permit a better interpretation of acoustic contrast, hence the data used for the inversion has been taken from the VSP after zero phase waveshaping deconvolution.

The inversion technique is based on entropy minimisation of the reflection coefficient series. In other words, the algorithm chooses the sparsest sequences of reflection coefficients as the preferred solution. The low frequency trend is extracted from the time depth curve such that the inversion technique is achieved without any input from the logged data.

It is important to point out that the acoustic impedance inversion is obtained without any input from the logged data. The quality of the inversion can be assessed by the similarity of the match between the logged impedance and inverted impedance.

Plots 6 and 7 are composite displays of the VSP data, inverted impedance, logged impedance and synthetic seismograms. These displays are a guide to the tie between the geograms and corridor stack.

There is a good tie between the synthetic seismogram and VSP. There are some subtle variations on the Amplitude of the events. The VSP provides a measure of the earth filter effect whilst the synthetic makes some very basic assumptions to approximate the earth filter effect.

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 $\Delta\ t_{min}$.

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)

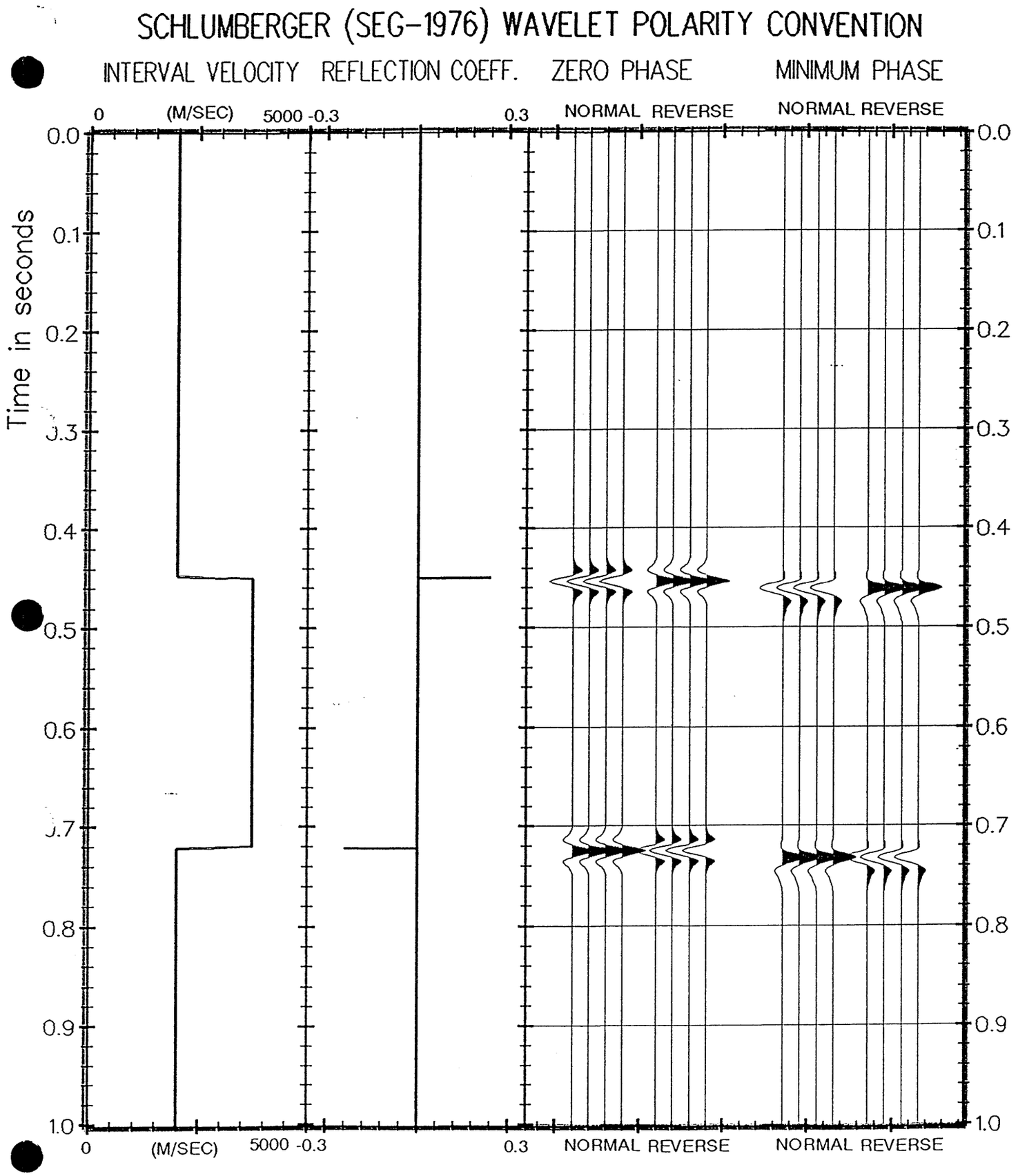
9. Interval velocity: the velocity between each sampled depth. Typically, the sampling rate is 2 millisecs two way time, (1 millisec one way time) therefore the interval velocity will be equal to the depth increment divided by 0.002. It is equivalent to column 9 from the Velocity Report.

GEOGRAM PLOTS

Drift Corrected Sonic
Seismic Calibration Log
20 hz zero phase Geogram
25 hz zero phase Geogram
35 hz zero phase Geogram
45 hz zero phase Geogram
Geograms with -90 degr. phase shift

VSP PLOTS

Plot 1	Stacked data
Plot 2	Amplitude Recovery
Plot 3	Velocity Filter
Plot 4	Waveshaping Deconvolution Zero Phase
Plot 5	Waveshaping Deconvolution - Corridor Stack
Plot 5A	Waveshaping Deconvolution - Corridor Stack (-90 degr. phase shift)
Plot 6	VSP and Geogram Composite - normal polarity
Plot 7	VSP and Geogram Composite - reverse polarity


SCHLUMBERGER (SEG-1976) WAVELET POLARITY CONVENTION
INTERVAL VELOCITY
REFLECTION COEFF.
ZERO PHASE
MINIMUM PHASE
0
(M/SEC)
5000
-0.3
0.3
NORMAL
REVERSE
NORMAL
REVERSE
Time in seconds
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0

SHOTS

SCHLUMBERGER

GEOPHYSICAL AIRGUN REPORT

COMPANY : ESSO AUSTRALIA LTD.
WELL : BLACKBACK #3
FIELD : BLACKBACK
STATE : VICTORIA
COUNTRY : AUSTRALIA
REFERENCE: SYJ.561011/561012
LOGGED : 06-APR-1994

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	:	25.0000	M
ELEV OF SRD AB. MSL(WST)	SRD	:	0	M
Elevation of Kelly Bushi	EKB	:	25.0000	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	-43.8	-38.1	-10.0	-43.8	-38.1

	TRT HYD-SC MS	TRT SC-SRD MS
1	3.28	3.28

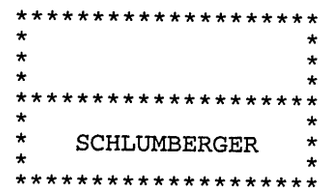
	MD @ KB M	VD @ KB M	VD @ SRD M	E-W COORD M	N-S COORD M
1	500.0	500.0	475.0	0	0
2	750.0	750.0	725.0	0	0
3	1092.0	1092.0	1067.0	0	0
4	1250.0	1250.0	1225.0	0	0
5	1425.0	1425.0	1400.0	0	0
6	1610.0	1610.0	1585.0	0	0
7	1805.0	1805.0	1780.0	0	0
8	2110.0	2110.0	2085.0	0	0
9	2240.0	2240.0	2215.0	0	0
10	2430.0	2430.0	2405.0	0	0
11	2535.0	2535.0	2510.0	0	0
12	2620.0	2620.0	2595.0	0	0
13	2640.0	2640.0	2615.0	0	0
14	2660.0	2660.0	2635.0	0	0
15	2680.0	2680.0	2655.0	0	0
16	2700.0	2700.0	2675.0	0	0
17	2720.0	2720.0	2695.0	0	0
18	2740.0	2740.0	2715.0	0	0
19	2760.0	2760.0	2735.0	0	0
20	2780.0	2780.0	2755.0	0	0
21	2800.0	2800.0	2775.0	0	0
22	2820.0	2820.0	2795.0	0	0
23	2830.0	2830.0	2805.0	0	0
24	2840.0	2840.0	2815.0	0	0
25	2860.0	2860.0	2835.0	0	0
26	2880.0	2880.0	2855.0	0	0
27	2900.0	2900.0	2875.0	0	0
28	2920.0	2920.0	2895.0	0	0
29	2940.0	2940.0	2915.0	0	0
30	2960.0	2960.0	2935.0	0	0
31	2980.0	2980.0	2955.0	0	0
32	3000.0	3000.0	2975.0	0	0
33	3020.0	3020.0	2995.0	0	0
34	3040.0	3040.0	3015.0	0	0
35	3060.0	3060.0	3035.0	0	0
36	3080.0	3080.0	3055.0	0	0
37	3090.0	3090.0	3065.0	0	0

LEVEL NUMBER	MEASUR DEP FRO 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	500.0	475.0	294.00	295.04	298.32	1592			
2	750.0	725.0	400.50	402.48	405.76	1787	250.0	107.43	2327
3	1092.0	1067.0	522.50	525.00	528.28	2020	342.0	122.52	2791
4	1250.0	1225.0	572.30	574.93	578.21	2119	158.0	49.93	3164
5	1425.0	1400.0	626.90	629.64	632.92	2212	175.0	54.71	3199
6	1610.0	1585.0	683.50	686.32	689.60	2298	185.0	56.68	3264
7	1805.0	1780.0	740.60	743.48	746.76	2384	195.0	57.17	3411
8	2110.0	2085.0	824.20	827.16	830.44	2511	305.0	83.68	3645
9	2240.0	2215.0	858.20	861.18	864.47	2562	130.0	34.02	3821
10	2430.0	2405.0	910.00	913.01	916.30	2625	190.0	51.83	3666
11	2535.0	2510.0	943.70	946.73	950.01	2642	105.0	33.71	3115
12	2620.0	2595.0	974.00	977.04	980.32	2647	85.0	30.31	2804
13	2640.0	2615.0	981.40	984.44	987.72	2648	20.0	7.40	2702
14	2660.0	2635.0	988.40	991.44	994.72	2649	20.0	7.00	2856
15	2680.0	2655.0	996.10	999.14	1002.42	2649	20.0	7.70	2597
16	2700.0	2675.0	1002.60	1005.64	1008.92	2651	20.0	6.50	3076
17	2720.0	2695.0	1008.90	1011.95	1015.23	2655	20.0	6.30	3174
18	2740.0	2715.0	1015.00	1018.05	1021.33	2658	20.0	6.10	3278
19	2760.0	2735.0	1022.20	1025.25	1028.53	2659	20.0	7.20	2777
20	2780.0	2755.0	1028.80	1031.85	1035.13	2661	20.0	6.60	3029
21	2800.0	2775.0	1036.70	1039.75	1043.03	2661	20.0	7.90	2531
22	2820.0	2795.0	1042.10	1045.16	1048.44	2666	20.0	5.40	3702
23	2830.0	2805.0	1044.70	1047.76	1051.04	2669	10.0	2.60	3845
24	2840.0	2815.0	1047.90	1050.96	1054.24	2670	10.0	3.20	3124

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
25	2860.0	2835.0	1053.60	1056.66	1059.94	2675	20.0	5.70	3508
26	2880.0	2855.0	1058.90	1061.96	1065.24	2680	20.0	5.30	3772
27	2900.0	2875.0	1064.40	1067.46	1070.74	2685	20.0	5.50	3635
28	2920.0	2895.0	1070.30	1073.36	1076.65	2689	20.0	5.90	3389
29	2940.0	2915.0	1076.30	1079.37	1082.65	2692	20.0	6.00	3332
30	2960.0	2935.0	1081.80	1084.87	1088.15	2697	20.0	5.50	3635
31	2980.0	2955.0	1088.00	1091.07	1094.35	2700	20.0	6.20	3225
32	3000.0	2975.0	1093.00	1096.07	1099.35	2706	20.0	5.00	3999
33	3020.0	2995.0	1097.90	1100.97	1104.25	2712	20.0	4.90	4080
34	3040.0	3015.0	1103.40	1106.48	1109.76	2717	20.0	5.50	3635
35	3060.0	3035.0	1108.70	1111.78	1115.06	2722	20.0	5.30	3772
36	3080.0	3055.0	1114.20	1117.28	1120.56	2726	20.0	5.50	3635
37	3090.0	3065.0	1116.70	1119.78	1123.06	2729	10.0	2.50	3999

DRIFT

DRIFT



DRIFT COMPUTATION REPORT

COMPANY : ESSO AUSTRALIA LTD.
WELL : BLACKBACK #3
FIELD : BLACKBACK
STATE : VICTORIA
COUNTRY : AUSTRALIA
REFERENCE: SYJ.561011/561012
LOGGED : 06-APR-1994

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	: 25.0000	M
ELEV OF SRD AB. MSL(WST)	SRD	: 0	M
Elevation of Kelly Bushi	EKB	: 25.0000	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.LOG.003.FUN.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	MEASURED 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	500.0	475.0	298.32	298.32	0	0
2	750.0	725.0	405.76	404.33	1.43	5.72
3	1092.0	1067.0	528.28	526.35	1.93	1.45
4	1250.0	1225.0	578.21	575.82	2.39	2.97
5	1425.0	1400.0	632.92	630.07	2.85	2.59
6	1610.0	1585.0	689.60	685.33	4.27	7.67
7	1805.0	1780.0	746.76	742.07	4.70	2.21
8	2110.0	2085.0	830.44	825.47	4.97	.88
9	2240.0	2215.0	864.47	858.54	5.92	7.34
10	2430.0	2405.0	916.30	909.26	7.03	5.85
11	2535.0	2510.0	950.01	942.05	7.96	8.83
12	2620.0	2595.0	980.32	971.74	8.58	7.28
13	2640.0	2615.0	987.72	978.72	8.99	20.72
14	2660.0	2635.0	994.72	985.57	9.15	7.76
15	2680.0	2655.0	1002.42	992.38	10.04	44.58
16	2700.0	2675.0	1008.92	998.99	9.93	-5.50
17	2720.0	2695.0	1015.23	1005.54	9.69	-12.11
18	2740.0	2715.0	1021.33	1012.08	9.25	-22.05
19	2760.0	2735.0	1028.53	1018.70	9.84	29.39
20	2780.0	2755.0	1035.13	1025.27	9.86	1.14
21	2800.0	2775.0	1043.03	1031.80	11.23	68.68
22	2820.0	2795.0	1048.44	1037.87	10.56	-33.54
23	2830.0	2805.0	1051.04	1040.83	10.20	-35.69
24	2840.0	2815.0	1054.24	1043.72	10.52	31.21

LEVEL NUMBER	MEASURED 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
25	2860.0	2835.0	1059.94	1049.53	10.41	-5.43
26	2880.0	2855.0	1065.24	1055.21	10.03	-18.69
27	2900.0	2875.0	1070.74	1060.91	9.83	-10.17
28	2920.0	2895.0	1076.65	1066.62	10.03	9.90
29	2940.0	2915.0	1082.65	1072.47	10.17	7.29
30	2960.0	2935.0	1088.15	1078.26	9.89	-14.06
31	2980.0	2955.0	1094.35	1083.74	10.61	35.86
32	3000.0	2975.0	1099.35	1089.33	10.02	-29.27
33	3020.0	2995.0	1104.25	1094.75	9.50	-26.09
34	3040.0	3015.0	1109.76	1100.06	9.70	9.86
35	3060.0	3035.0	1115.06	1105.49	9.57	-6.37
36	3080.0	3055.0	1120.56	1110.89	9.67	5.03
37	3090.0	3065.0	1123.06	1113.56	9.50	-17.68
38	3100.0	3075.0	1125.85	1116.36	9.50	0

ANALYST: WIBISONO 26-MAY-94 09:4)8 PROGRAM: GADJST 008.E08

SONIC ADJUSTMENT PARAMETER REPORT

COMPANY : ESSO AUSTRALIA LTD.
WELL : BLACKBACK #3
FIELD : BLACKBACK
STATE : VICTORIA
COUNTRY : AUSTRALIA
REFERENCE: SYJ.561011/561012
LOGGED : 06-APR-1994

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

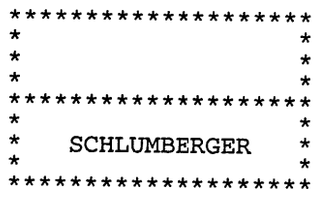
SHOT - Shot number
VDKB - Vertical Depth Relative to KB
DSRD - Depth from SRD
KNEE - Knee
BLSH - Block Shift between Shots or Knee
DTMI - Value of Delta-T Minimum used
COEF - Delta-T MIN Coefficient used in the Drift Zone
DRGR - Gradient of Drift Curve

(GLOBAL PARAMETERS)		(VALUE)	
ORIG OF ADJ DATA (WST)	SRCDRF	: 2.00000	
CONS SONIC ADJST (WST)	CONADJ	: 24.6063	US/M
UNIFORM EARTH VELOCITY	UNERTH	: 1592.00	M/S

(ZONED PARAMETERS)		(VALUE)		(LIMITS)		
USER DRIFT ZONE (WST)	ZDRIFT	: 9.500000	MS	3100.00	-	2797.00
		10.80000		2797.00		2111.50
		5.000000		2111.50		500.000
		0		500.000		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	: 0		30479.7	-	0
USER VELOC (WST)	LAYVEL	: 1592.000	M/S	500.000	-	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
2	500.0	475.0	0	0			0
3	2111.5	2086.5	5.00	3.10			3.10
4	2797.0	2772.0	10.80	8.46			8.46
5	3100.0	3075.0	9.50		253.14	1.00	-4.29

ANALYST: WIBISONO 26-MAY-94 09:4. .9 PROGRAM: GADJST 008.E08



VELOCITY REPORT

COMPANY : ESSO AUSTRALIA LTD.
WELL : BLACKBACK #3
FIELD : BLACKBACK
STATE : VICTORIA
COUNTRY : AUSTRALIA
REFERENCE: SYJ.561011/561012
LOGGED : 06-APR-1994

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	: 25.0000	M
ELEV OF SRD AB. MSL(WST)	SRD	: 0	M
Elevation of Kelly Bushi	EKB	: 25.0000	M
UNIFORM EARTH VELOCITY	UNERTH	: 1592.00	M/S

(ZONED PARAMETERS)		(VALUE)		(LIMITS)		
LAYER OPTION FLAG VELOC	LOFVEL	: 0		30479.7	-	0
USER VELOC (WST)	LAYVEL	: 1592.000	M/S	500.000	-	0

LEVEL NUMBER	MEASURED 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
1	500.0	475.0	298.32	298.32	0	0	1592
2	750.0	725.0	405.76	405.09	1.43	.67	2342
3	1092.0	1067.0	528.28	528.17	1.93	.11	2779
4	1250.0	1225.0	578.21	578.12	2.39	.09	3163
5	1425.0	1400.0	632.92	632.91	2.85	0	3194
6	1610.0	1585.0	689.60	688.75	4.27	.85	3313
7	1805.0	1780.0	746.76	746.08	4.70	.68	3401
8	2110.0	2085.0	830.44	830.43	4.97	.01	3616
9	2240.0	2215.0	864.47	864.60	5.92	-.13	3805
10	2430.0	2405.0	916.30	916.93	7.03	-.63	3631
11	2535.0	2510.0	950.01	950.61	7.96	-.60	3118
12	2620.0	2595.0	980.32	981.02	8.58	-.70	2795
13	2640.0	2615.0	987.72	988.17	8.99	-.45	2795
14	2660.0	2635.0	994.72	995.19	9.15	-.47	2850
15	2680.0	2655.0	1002.42	1002.17	10.04	.25	2864
16	2700.0	2675.0	1008.92	1008.95	9.93	-.03	2951
17	2720.0	2695.0	1015.23	1015.66	9.69	-.44	2980
18	2740.0	2715.0	1021.33	1022.38	9.25	-1.05	2979
19	2760.0	2735.0	1028.53	1029.16	9.84	-.63	2949
20	2780.0	2755.0	1035.13	1035.91	9.86	-.77	2963
21	2800.0	2775.0	1043.03	1042.57	11.23	.46	3000
22	2820.0	2795.0	1048.44	1048.65	10.56	-.21	3292
23	2830.0	2805.0	1051.04	1051.60	10.20	-.57	3383
24	2840.0	2815.0	1054.24	1054.49	10.52	-.25	3462

LEVEL NUMBER	MEASURED 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
25	2860.0	2835.0	1059.94	1060.30	10.41	-.36	3442
26	2880.0	2855.0	1065.24	1065.98	10.03	-.74	3524
27	2900.0	2875.0	1070.74	1071.68	9.83	-.94	3506
28	2920.0	2895.0	1076.65	1077.39	10.03	-.74	3504
29	2940.0	2915.0	1082.65	1083.24	10.17	-.60	3415
30	2960.0	2935.0	1088.15	1089.02	9.89	-.88	3460
31	2980.0	2955.0	1094.35	1094.51	10.61	-.16	3648
32	3000.0	2975.0	1099.35	1100.09	10.02	-.74	3580
33	3020.0	2995.0	1104.25	1105.52	9.50	-1.27	3686
34	3040.0	3015.0	1109.76	1110.82	9.70	-1.07	3772
35	3060.0	3035.0	1115.06	1116.25	9.57	-1.20	3682
36	3080.0	3055.0	1120.56	1121.65	9.67	-1.09	3704
37	3090.0	3065.0	1123.06	1124.33	9.50	-1.27	3732
38	3100.0	3075.0	1125.85	1127.18	9.50	-1.32	3505

TIME / DEPTH

TIME/DEPTH

Unistat
5th Cut
A4 Dividers
Re-order code 97052

ANALYST: WIBISONO 26-MAY-94 09:4 .9 PROGRAM: GTRFRM 001.E13

SCHLUMBERGER

TIME CONVERTED VELOCITY REPORT

COMPANY : ESSO AUSTRALIA LTD.
WELL : BLACKBACK #3
FIELD : BLACKBACK
STATE : VICTORIA
COUNTRY : AUSTRALIA
REFERENCE: SYJ.561011/561012
LOGGED : 06-APR-1994

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 :	25.0000	M
ELEV OF SRD AB. MSL(WST)	SRD :	0	M
ELEV OF GL AB. SRD(WST)	GL :	0	M
UNIFORM EARTH VELOCITY	UNERTH :	1592.00	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	: 0		30479.7	-	0
USER VELOC (WST)	LAYVEL	: 1592.000	M/S	500.000	-	0
LAYER OPTION FLAG DENS	LOFDEN	:-1.000000		30479.7	-	0
USER SUPPLIED DENSITY DA	LAYDEN	: 0	G/C3	0	-	0

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
2.00	26.6	1.6	1592	1592	626.14	940.21	1254.28	1592
4.00	28.2	3.2	1592	1592	624.15	938.22	1252.29	1592
6.00	29.8	4.8	1592	1592	622.17	936.23	1250.30	1592
8.00	31.4	6.4	1592	1592	620.19	934.25	1248.31	1592
10.00	33.0	8.0	1592	1592	618.22	932.26	1246.32	1592
12.00	34.6	9.6	1592	1592	616.26	930.29	1244.34	1592
14.00	36.1	11.1	1592	1592	614.30	928.32	1242.36	1592
16.00	37.7	12.7	1592	1592	612.34	926.35	1240.38	1592
18.00	39.3	14.3	1592	1592	610.40	924.38	1238.41	1592
20.00	40.9	15.9	1592	1592	608.46	922.42	1236.44	1592
22.00	42.5	17.5	1592	1592	606.53	920.47	1234.47	1592
24.00	44.1	19.1	1592	1592	604.60	918.52	1232.51	1592
26.00	45.7	20.7	1592	1592	602.68	916.57	1230.55	1592
28.00	47.3	22.3	1592	1592	600.76	914.63	1228.59	1592
30.00	48.9	23.9	1592	1592	598.86	912.69	1226.64	1592
32.00	50.5	25.5	1592	1592	596.96	910.75	1224.69	1592
34.00	52.1	27.1	1592	1592	595.06	908.82	1222.74	1592
36.00	53.7	28.7	1592	1592	593.17	906.90	1220.80	1592
38.00	55.2	30.2	1592	1592	591.29	904.98	1218.86	1592
40.00	56.8	31.8	1592	1592	589.41	903.06	1216.92	1592
42.00	58.4	33.4	1592	1592	587.54	901.15	1214.98	1592
44.00	60.0	35.0	1592	1592	585.68	899.24	1213.05	1592
46.00	61.6	36.6	1592	1592	583.82	897.33	1211.12	1592
48.00	63.2	38.2	1592	1592	581.97	895.43	1209.20	

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
50.00	64.8	39.8	1592	1592	580.13	893.54	1207.28	1592
52.00	66.4	41.4	1592	1592	578.29	891.64	1205.36	1592
54.00	68.0	43.0	1592	1592	576.46	889.76	1203.44	1592
56.00	69.6	44.6	1592	1592	574.63	887.87	1201.53	1592
58.00	71.2	46.2	1592	1592	572.81	885.99	1199.62	1592
60.00	72.8	47.8	1592	1592	571.00	884.12	1197.71	1592
62.00	74.4	49.4	1592	1592	569.19	882.25	1195.81	1592
64.00	75.9	50.9	1592	1592	567.39	880.38	1193.91	1592
66.00	77.5	52.5	1592	1592	565.60	878.52	1192.01	1592
68.00	79.1	54.1	1592	1592	563.81	876.66	1190.12	1592
70.00	80.7	55.7	1592	1592	562.03	874.81	1188.23	1592
72.00	82.3	57.3	1592	1592	560.25	872.96	1186.34	1592
74.00	83.9	58.9	1592	1592	558.48	871.11	1184.46	1592
76.00	85.5	60.5	1592	1592	556.72	869.27	1182.58	1592
78.00	87.1	62.1	1592	1592	554.97	867.43	1180.70	1592
80.00	88.7	63.7	1592	1592	553.21	865.60	1178.83	1592
82.00	90.3	65.3	1592	1592	551.47	863.77	1176.95	1592
84.00	91.9	66.9	1592	1592	549.73	861.95	1175.09	1592
86.00	93.5	68.5	1592	1592	548.00	860.13	1173.22	1592
88.00	95.0	70.0	1592	1592	546.27	858.31	1171.36	1592
90.00	96.6	71.6	1592	1592	544.56	856.50	1169.50	1592
92.00	98.2	73.2	1592	1592	542.84	854.69	1167.65	1592
94.00	99.8	74.8	1592	1592	541.14	852.89	1165.79	1592
96.00	101.4	76.4	1592	1592	539.43	851.09	1163.94	

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
98.00	103.0	78.0	1592	1592	537.74	849.29	1162.10	1592
100.00	104.6	79.6	1592	1592	536.05	847.50	1160.26	1592
102.00	106.2	81.2	1592	1592	534.37	845.72	1158.42	1592
104.00	107.8	82.8	1592	1592	532.69	843.93	1156.58	1592
106.00	109.4	84.4	1592	1592	531.02	842.15	1154.75	1592
108.00	111.0	86.0	1592	1592	529.36	840.38	1152.92	1592
110.00	112.6	87.6	1592	1592	527.70	838.61	1151.09	1592
112.00	114.2	89.2	1592	1592	526.05	836.84	1149.26	1592
114.00	115.7	90.7	1592	1592	524.40	835.08	1147.44	1592
116.00	117.3	92.3	1592	1592	522.76	833.32	1145.63	1592
118.00	118.9	93.9	1592	1592	521.13	831.57	1143.81	1592
120.00	120.5	95.5	1592	1592	519.50	829.82	1142.00	1592
122.00	122.1	97.1	1592	1592	517.88	828.08	1140.19	1592
124.00	123.7	98.7	1592	1592	516.26	826.34	1138.39	1592
126.00	125.3	100.3	1592	1592	514.65	824.60	1136.58	1592
128.00	126.9	101.9	1592	1592	513.05	822.87	1134.79	1592
130.00	128.5	103.5	1592	1592	511.45	821.14	1132.99	1592
132.00	130.1	105.1	1592	1592	509.86	819.41	1131.20	1592
134.00	131.7	106.7	1592	1592	508.27	817.69	1129.41	1592
136.00	133.3	108.3	1592	1592	506.69	815.98	1127.62	1592
138.00	134.8	109.8	1592	1592	505.12	814.26	1125.84	1592
140.00	136.4	111.4	1592	1592	503.55	812.56	1124.06	1592
142.00	138.0	113.0	1592	1592	501.99	810.85	1122.28	1592
144.00	139.6	114.6	1592	1592	500.44	809.15	1120.51	

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
146.00	141.2	116.2	1592	1592	498.89	807.46	1118.74	1592
148.00	142.8	117.8	1592	1592	497.34	805.76	1116.97	1592
150.00	144.4	119.4	1592	1592	495.80	804.08	1115.20	1592
152.00	146.0	121.0	1592	1592	494.27	802.39	1113.44	1592
154.00	147.6	122.6	1592	1592	492.74	800.71	1111.69	1592
156.00	149.2	124.2	1592	1592	491.22	799.04	1109.93	1592
158.00	150.8	125.8	1592	1592	489.71	797.37	1108.18	1592
160.00	152.4	127.4	1592	1592	488.20	795.70	1106.43	1592
162.00	154.0	129.0	1592	1592	486.69	794.04	1104.68	1592
164.00	155.5	130.5	1592	1592	485.20	792.38	1102.94	1592
166.00	157.1	132.1	1592	1592	483.71	790.72	1101.20	1592
168.00	158.7	133.7	1592	1592	482.22	789.07	1099.46	1592
170.00	160.3	135.3	1592	1592	480.74	787.42	1097.73	1592
172.00	161.9	136.9	1592	1592	479.26	785.78	1096.00	1592
174.00	163.5	138.5	1592	1592	477.80	784.14	1094.27	1592
176.00	165.1	140.1	1592	1592	476.33	782.51	1092.55	1592
178.00	166.7	141.7	1592	1592	474.87	780.88	1090.83	1592
180.00	168.3	143.3	1592	1592	473.42	779.25	1089.11	1592
182.00	169.9	144.9	1592	1592	471.98	777.63	1087.40	1592
184.00	171.5	146.5	1592	1592	470.54	776.01	1085.68	1592
186.00	173.1	148.1	1592	1592	469.10	774.39	1083.98	1592
188.00	174.6	149.6	1592	1592	467.67	772.78	1082.27	1592
190.00	176.2	151.2	1592	1592	466.25	771.18	1080.57	1592
192.00	177.8	152.8	1592	1592	464.83	769.57	1078.87	

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
194.00	179.4	154.4	1592	1592	463.42	767.98	1077.17	1592
196.00	181.0	156.0	1592	1592	462.01	766.38	1075.48	1592
198.00	182.6	157.6	1592	1592	460.61	764.79	1073.79	1592
200.00	184.2	159.2	1592	1592	459.21	763.20	1072.10	1592
202.00	185.8	160.8	1592	1592	457.82	761.62	1070.42	1592
204.00	187.4	162.4	1592	1592	456.44	760.04	1068.74	1592
206.00	189.0	164.0	1592	1592	455.06	758.47	1067.06	1592
208.00	190.6	165.6	1592	1592	453.68	756.90	1065.38	1592
210.00	192.2	167.2	1592	1592	452.31	755.33	1063.71	1592
212.00	193.8	168.8	1592	1592	450.95	753.77	1062.04	1592
214.00	195.3	170.3	1592	1592	449.59	752.21	1060.38	1592
216.00	196.9	171.9	1592	1592	448.24	750.65	1058.72	1592
218.00	198.5	173.5	1592	1592	446.89	749.10	1057.06	1592
220.00	200.1	175.1	1592	1592	445.55	747.55	1055.40	1592
222.00	201.7	176.7	1592	1592	444.22	746.01	1053.75	1592
224.00	203.3	178.3	1592	1592	442.89	744.47	1052.10	1592
226.00	204.9	179.9	1592	1592	441.56	742.94	1050.45	1592
228.00	206.5	181.5	1592	1592	440.24	741.40	1048.80	1592
230.00	208.1	183.1	1592	1592	438.93	739.88	1047.16	1592
232.00	209.7	184.7	1592	1592	437.62	738.35	1045.52	1592
234.00	211.3	186.3	1592	1592	436.31	736.83	1043.89	1592
236.00	212.9	187.9	1592	1592	435.01	735.32	1042.26	1592
238.00	214.4	189.4	1592	1592	433.72	733.81	1040.63	1592
240.00	216.0	191.0	1592	1592	432.43	732.30	1039.00	

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
242.00	217.6	192.6	1592	1592	431.15	730.79	1037.38	1592
244.00	219.2	194.2	1592	1592	429.87	729.29	1035.76	1592
246.00	220.8	195.8	1592	1592	428.59	727.80	1034.14	1592
248.00	222.4	197.4	1592	1592	427.33	726.30	1032.53	1592
250.00	224.0	199.0	1592	1592	426.06	724.81	1030.91	1592
252.00	225.6	200.6	1592	1592	424.80	723.33	1029.31	1592
254.00	227.2	202.2	1592	1592	423.55	721.85	1027.70	1592
256.00	228.8	203.8	1592	1592	422.30	720.37	1026.10	1592
258.00	230.4	205.4	1592	1592	421.06	718.90	1024.50	1592
260.00	232.0	207.0	1592	1592	419.82	717.43	1022.90	1592
262.00	233.6	208.6	1592	1592	418.59	715.96	1021.31	1592
264.00	235.1	210.1	1592	1592	417.36	714.50	1019.72	1592
266.00	236.7	211.7	1592	1592	416.14	713.04	1018.13	1592
268.00	238.3	213.3	1592	1592	414.92	711.58	1016.55	1592
270.00	239.9	214.9	1592	1592	413.71	710.13	1014.97	1592
272.00	241.5	216.5	1592	1592	412.50	708.69	1013.39	1592
274.00	243.1	218.1	1592	1592	411.30	707.24	1011.81	1592
276.00	244.7	219.7	1592	1592	410.10	705.80	1010.24	1592
278.00	246.3	221.3	1592	1592	408.91	704.37	1008.67	1592
280.00	247.9	222.9	1592	1592	407.72	702.94	1007.11	1592
282.00	249.5	224.5	1592	1592	406.54	701.51	1005.54	1592
284.00	251.1	226.1	1592	1592	405.36	700.08	1003.98	1592
286.00	252.7	227.7	1592	1592	404.19	698.66	1002.42	1592
288.00	254.2	229.2	1592	1592	403.02	697.24	1000.87	

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
290.00	255.8	230.8	1592	1592	401.85	695.83	999.32	1592
292.00	257.4	232.4	1592	1592	400.69	694.42	997.77	1592
294.00	259.0	234.0	1592	1592	399.54	693.01	996.22	1592
296.00	260.6	235.6	1592	1592	398.39	691.61	994.68	1592
298.00	262.2	237.2	1592	1592	397.24	690.21	993.14	1592
300.00	263.8	238.8	1592	1592	396.10	688.82	991.60	1592
302.00	265.4	240.4	1592	1592	394.97	687.43	990.07	1592
304.00	267.0	242.0	1592	1592	393.84	686.04	988.54	1592
306.00	268.6	243.6	1592	1592	392.71	684.66	987.01	1592
308.00	270.2	245.2	1592	1592	391.59	683.27	985.49	1592
310.00	271.8	246.8	1592	1592	390.47	681.90	983.96	1592
312.00	273.4	248.4	1592	1592	389.36	680.52	982.44	1592
314.00	274.9	249.9	1592	1592	388.25	679.16	980.93	1592
316.00	276.5	251.5	1592	1592	387.15	677.79	979.41	1592
318.00	278.1	253.1	1592	1592	386.05	676.43	977.90	1592
320.00	279.7	254.7	1592	1592	384.95	675.07	976.40	1592
322.00	281.3	256.3	1592	1592	383.86	673.71	974.89	1592
324.00	282.9	257.9	1592	1592	382.78	672.36	973.39	1592
326.00	284.5	259.5	1592	1592	381.70	671.01	971.89	1592
328.00	286.1	261.1	1592	1592	380.62	669.67	970.39	1592
330.00	287.7	262.7	1592	1592	379.55	668.33	968.90	1592
332.00	289.3	264.3	1592	1592	378.48	666.99	967.41	1592
334.00	290.9	265.9	1592	1592	377.42	665.66	965.92	1592
336.00	292.5	267.5	1592	1592	376.36	664.33	964.44	

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
338.00	294.0	269.0	1592	1592	375.31	663.00	962.96	1592
340.00	295.6	270.6	1592	1592	374.26	661.68	961.48	1592
342.00	297.2	272.2	1592	1592	373.21	660.36	960.00	1592
344.00	298.8	273.8	1592	1592	372.17	659.04	958.53	1592
346.00	300.4	275.4	1592	1592	371.13	657.73	957.06	1592
348.00	302.0	277.0	1592	1592	370.10	656.42	955.59	1592
350.00	303.6	278.6	1592	1592	369.07	655.12	954.13	1592
352.00	305.2	280.2	1592	1592	368.04	653.82	952.66	1592
354.00	306.8	281.8	1592	1592	367.02	652.52	951.20	1592
356.00	308.4	283.4	1592	1592	366.01	651.22	949.75	1592
358.00	310.0	285.0	1592	1592	365.00	649.93	948.30	1592
360.00	311.6	286.6	1592	1592	363.99	648.64	946.84	1592
362.00	313.2	288.2	1592	1592	362.99	647.36	945.40	1592
364.00	314.7	289.7	1592	1592	361.99	646.08	943.95	1592
366.00	316.3	291.3	1592	1592	360.99	644.80	942.51	1592
368.00	317.9	292.9	1592	1592	360.00	643.53	941.07	1592
370.00	319.5	294.5	1592	1592	359.01	642.26	939.63	1592
372.00	321.1	296.1	1592	1592	358.03	640.99	938.20	1592
374.00	322.7	297.7	1592	1592	357.05	639.72	936.77	1592
376.00	324.3	299.3	1592	1592	356.08	638.46	935.34	1592
378.00	325.9	300.9	1592	1592	355.11	637.21	933.92	1592
380.00	327.5	302.5	1592	1592	354.14	635.95	932.49	1592
382.00	329.1	304.1	1592	1592	353.18	634.70	931.08	1592
384.00	330.7	305.7	1592	1592	352.22	633.46	929.66	

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
386.00	332.3	307.3	1592	1592	351.26	632.21	928.24	1592
388.00	333.8	308.8	1592	1592	350.31	630.97	926.83	1592
390.00	335.4	310.4	1592	1592	349.37	629.74	925.42	1592
392.00	337.0	312.0	1592	1592	348.42	628.50	924.02	1592
394.00	338.6	313.6	1592	1592	347.48	627.27	922.62	1592
396.00	340.2	315.2	1592	1592	346.55	626.05	921.22	1592
398.00	341.8	316.8	1592	1592	345.62	624.82	919.82	1592
400.00	343.4	318.4	1592	1592	344.69	623.60	918.42	1592
402.00	345.0	320.0	1592	1592	343.76	622.39	917.03	1592
404.00	346.6	321.6	1592	1592	342.84	621.17	915.64	1592
406.00	348.2	323.2	1592	1592	341.93	619.96	914.26	1592
408.00	349.8	324.8	1592	1592	341.02	618.76	912.87	1592
410.00	351.4	326.4	1592	1592	340.11	617.55	911.49	1592
412.00	353.0	328.0	1592	1592	339.20	616.35	910.11	1592
414.00	354.5	329.5	1592	1592	338.30	615.15	908.74	1592
416.00	356.1	331.1	1592	1592	337.40	613.96	907.37	1592
418.00	357.7	332.7	1592	1592	336.51	612.77	906.00	1592
420.00	359.3	334.3	1592	1592	335.62	611.58	904.63	1592
422.00	360.9	335.9	1592	1592	334.73	610.40	903.26	1592
424.00	362.5	337.5	1592	1592	333.85	609.22	901.90	1592
426.00	364.1	339.1	1592	1592	332.97	608.04	900.54	1592
428.00	365.7	340.7	1592	1592	332.10	606.87	899.19	1592
430.00	367.3	342.3	1592	1592	331.22	605.69	897.83	1592
432.00	368.9	343.9	1592	1592	330.35	604.53	896.48	

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
434.00	370.5	345.5	1592	1592	329.49	603.36	895.13	1592
436.00	372.1	347.1	1592	1592	328.63	602.20	893.79	1592
438.00	373.6	348.6	1592	1592	327.77	601.04	892.45	1592
440.00	375.2	350.2	1592	1592	326.92	599.89	891.11	1592
442.00	376.8	351.8	1592	1592	326.07	598.73	889.77	1592
444.00	378.4	353.4	1592	1592	325.22	597.58	888.43	1592
446.00	380.0	355.0	1592	1592	324.37	596.44	887.10	1592
448.00	381.6	356.6	1592	1592	323.53	595.30	885.77	1592
450.00	383.2	358.2	1592	1592	322.70	594.16	884.44	1592
452.00	384.8	359.8	1592	1592	321.86	593.02	883.12	1592
454.00	386.4	361.4	1592	1592	321.03	591.89	881.80	1592
456.00	388.0	363.0	1592	1592	320.21	590.76	880.48	1592
458.00	389.6	364.6	1592	1592	319.38	589.63	879.16	1592
460.00	391.2	366.2	1592	1592	318.56	588.50	877.85	1592
462.00	392.8	367.8	1592	1592	317.75	587.38	876.54	1592
464.00	394.3	369.3	1592	1592	316.93	586.27	875.23	1592
466.00	395.9	370.9	1592	1592	316.12	585.15	873.93	1592
468.00	397.5	372.5	1592	1592	315.32	584.04	872.62	1592
470.00	399.1	374.1	1592	1592	314.51	582.93	871.32	1592
472.00	400.7	375.7	1592	1592	313.71	581.82	870.02	1592
474.00	402.3	377.3	1592	1592	312.92	580.72	868.73	1592
476.00	403.9	378.9	1592	1592	312.12	579.62	867.44	1592
478.00	405.5	380.5	1592	1592	311.33	578.53	866.15	1592
480.00	407.1	382.1	1592	1592	310.54	577.43	864.86	

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
482.00	408.7	383.7	1592	1592	309.76	576.34	863.57	1592
484.00	410.3	385.3	1592	1592	308.98	575.25	862.29	1592
486.00	411.9	386.9	1592	1592	308.20	574.17	861.01	1592
488.00	413.4	388.4	1592	1592	307.43	573.09	859.73	1592
490.00	415.0	390.0	1592	1592	306.66	572.01	858.46	1592
492.00	416.6	391.6	1592	1592	305.89	570.93	857.19	1592
494.00	418.2	393.2	1592	1592	305.12	569.86	855.92	1592
496.00	419.8	394.8	1592	1592	304.36	568.79	854.65	1592
498.00	421.4	396.4	1592	1592	303.60	567.72	853.39	1592
500.00	423.0	398.0	1592	1592	302.85	566.66	852.13	1592
502.00	424.6	399.6	1592	1592	302.09	565.60	850.87	1592
504.00	426.2	401.2	1592	1592	301.34	564.54	849.61	1592
506.00	427.8	402.8	1592	1592	300.60	563.48	848.36	1592
508.00	429.4	404.4	1592	1592	299.85	562.43	847.10	1592
510.00	431.0	406.0	1592	1592	299.11	561.38	845.86	1592
512.00	432.6	407.6	1592	1592	298.37	560.34	844.61	1592
514.00	434.1	409.1	1592	1592	297.64	559.29	843.36	1592
516.00	435.7	410.7	1592	1592	296.91	558.25	842.12	1592
518.00	437.3	412.3	1592	1592	296.18	557.21	840.88	1592
520.00	438.9	413.9	1592	1592	295.45	556.18	839.65	1592
522.00	440.5	415.5	1592	1592	294.73	555.15	838.41	1592
524.00	442.1	417.1	1592	1592	294.01	554.12	837.18	1592
526.00	443.7	418.7	1592	1592	293.29	553.09	835.95	1592
528.00	445.3	420.3	1592	1592	292.58	552.07	834.73	

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
530.00	446.9	421.9	1592	1592	291.86	551.05	833.50	1592
532.00	448.5	423.5	1592	1592	291.16	550.03	832.28	1592
534.00	450.1	425.1	1592	1592	290.45	549.01	831.06	1592
536.00	451.7	426.7	1592	1592	289.75	548.00	829.85	1592
538.00	453.2	428.2	1592	1592	289.05	546.99	828.63	1592
540.00	454.8	429.8	1592	1592	288.35	545.98	827.42	1592
542.00	456.4	431.4	1592	1592	287.65	544.98	826.21	1592
544.00	458.0	433.0	1592	1592	286.96	543.98	825.01	1592
546.00	459.6	434.6	1592	1592	286.27	542.98	823.80	1592
548.00	461.2	436.2	1592	1592	285.59	541.98	822.60	1592
550.00	462.8	437.8	1592	1592	284.90	540.99	821.40	1592
552.00	464.4	439.4	1592	1592	284.22	540.00	820.21	1592
554.00	466.0	441.0	1592	1592	283.54	539.01	819.01	1592
556.00	467.6	442.6	1592	1592	282.87	538.03	817.82	1592
558.00	469.2	444.2	1592	1592	282.19	537.05	816.63	1592
560.00	470.8	445.8	1592	1592	281.52	536.07	815.44	1592
562.00	472.4	447.4	1592	1592	280.86	535.09	814.26	1592
564.00	473.9	448.9	1592	1592	280.19	534.12	813.08	1592
566.00	475.5	450.5	1592	1592	279.53	533.14	811.90	1592
568.00	477.1	452.1	1592	1592	278.87	532.18	810.72	1592
570.00	478.7	453.7	1592	1592	278.21	531.21	809.54	1592
572.00	480.3	455.3	1592	1592	277.56	530.25	808.37	1592
574.00	481.9	456.9	1592	1592	276.90	529.29	807.20	1592
576.00	483.5	458.5	1592	1592	276.25	528.33	806.03	

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
578.00	485.1	460.1	1592	1592	275.61	527.37	804.87	1592
580.00	486.7	461.7	1592	1592	274.96	526.42	803.71	1592
582.00	488.3	463.3	1592	1592	274.32	525.47	802.55	1592
584.00	489.9	464.9	1592	1592	273.68	524.52	801.39	1592
586.00	491.5	466.5	1592	1592	273.04	523.58	800.23	1592
588.00	493.0	468.0	1592	1592	272.41	522.63	799.08	1592
590.00	494.6	469.6	1592	1592	271.78	521.69	797.93	1592
592.00	496.2	471.2	1592	1592	271.15	520.76	796.78	1592
594.00	497.8	472.8	1592	1592	270.52	519.82	795.63	1592
596.00	499.4	474.4	1592	1592	269.90	518.89	794.49	1858
598.00	501.3	476.3	1593	1593	269.00	517.48	792.66	2028
600.00	503.3	478.3	1594	1595	267.91	515.73	790.35	2082
602.00	505.4	480.4	1596	1596	266.77	513.88	787.90	2074
604.00	507.5	482.5	1598	1598	265.64	512.07	785.48	2091
606.00	509.5	484.5	1599	1600	264.51	510.23	783.03	2088
608.00	511.6	486.6	1601	1602	263.38	508.40	780.61	2107
610.00	513.7	488.7	1602	1604	262.25	506.56	778.15	2139
612.00	515.9	490.9	1604	1606	261.08	504.66	775.61	2123
614.00	518.0	493.0	1606	1608	259.95	502.81	773.13	2145
616.00	520.1	495.1	1608	1610	258.79	500.93	770.61	2123
618.00	522.3	497.3	1609	1612	257.68	499.11	768.18	2106
620.00	524.4	499.4	1611	1614	256.59	497.33	765.80	2125
622.00	526.5	501.5	1613	1616	255.49	495.53	763.40	2156
624.00	528.7	503.7	1614	1618	254.37	493.68	760.91	

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
626.00	530.8	505.8	1616	1620	253.23	491.81	758.38	2178
628.00	533.0	508.0	1618	1622	252.10	489.95	755.89	2172
630.00	535.2	510.2	1620	1624	250.99	488.13	753.43	2169
632.00	537.3	512.3	1621	1626	249.91	486.35	751.04	2151
634.00	539.5	514.5	1623	1628	248.85	484.59	748.68	2145
636.00	541.7	516.7	1625	1630	247.74	482.75	746.20	2195
638.00	543.9	518.9	1627	1632	246.61	480.88	743.67	2216
640.00	546.1	521.1	1628	1634	245.51	479.06	741.20	2202
642.00	548.3	523.3	1630	1636	244.44	477.28	738.79	2188
644.00	550.5	525.5	1632	1638	243.39	475.54	736.44	2174
646.00	552.6	527.6	1633	1640	242.36	473.83	734.14	2161
648.00	554.9	529.9	1635	1642	241.24	471.95	731.59	2259
650.00	557.0	532.0	1637	1644	240.23	470.28	729.32	2161
652.00	559.2	534.2	1639	1646	239.17	468.51	726.93	2213
654.00	561.5	536.5	1641	1648	238.13	466.77	724.56	2212
656.00	563.7	538.7	1642	1650	237.08	465.01	722.18	2224
658.00	565.9	540.9	1644	1652	236.06	463.29	719.84	2214
660.00	568.1	543.1	1646	1654	235.08	461.67	717.64	2166
662.00	570.3	545.3	1647	1656	234.10	460.02	715.40	2189
664.00	572.5	547.5	1649	1658	233.07	458.28	713.03	2243
666.00	574.7	549.7	1651	1660	232.04	456.55	710.67	2249
668.00	577.0	552.0	1653	1662	231.02	454.83	708.33	2247
670.00	579.3	554.3	1655	1664	229.97	453.06	705.90	2286
672.00	581.6	556.6	1656	1667	228.91	451.26	703.44	2308

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
674.00	583.9	558.9	1659	1669	227.83	449.42	700.90	2343
676.00	586.3	561.3	1661	1672	226.71	447.51	698.27	2390
678.00	588.7	563.7	1663	1674	225.61	445.63	695.68	2380
680.00	591.0	566.0	1665	1676	224.55	443.83	693.20	2347
682.00	593.3	568.3	1667	1679	223.55	442.12	690.85	2300
684.00	595.6	570.6	1669	1681	222.56	440.42	688.52	2302
686.00	597.9	572.9	1670	1683	221.59	438.77	686.25	2284
688.00	600.2	575.2	1672	1685	220.62	437.12	683.98	2291
690.00	602.5	577.5	1674	1687	219.68	435.51	681.77	2270
692.00	604.7	579.7	1676	1689	218.77	433.97	679.66	2236
694.00	606.9	581.9	1677	1690	217.92	432.51	677.66	2192
696.00	609.2	584.2	1679	1692	217.03	430.99	675.57	2238
698.00	611.4	586.4	1680	1694	216.10	429.41	673.39	2288
700.00	613.7	588.7	1682	1696	215.21	427.88	671.28	2258
702.00	616.0	591.0	1684	1698	214.30	426.31	669.12	2288
704.00	618.3	593.3	1686	1700	213.34	424.67	666.85	2342
706.00	620.7	595.7	1688	1703	212.36	422.97	664.49	2390
708.00	623.2	598.2	1690	1705	211.30	421.12	661.91	2491
710.00	625.6	600.6	1692	1708	210.30	419.38	659.48	2434
712.00	628.1	603.1	1694	1710	209.29	417.63	657.04	2446
714.00	630.5	605.5	1696	1713	208.33	415.96	654.71	2408
716.00	632.9	607.9	1698	1715	207.36	414.27	652.36	2426
718.00	635.4	610.4	1700	1718	206.40	412.60	650.03	2427
720.00	637.7	612.7	1702	1720	205.49	411.02	647.82	2376

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
722.00	640.1	615.1	1704	1722	204.55	409.38	645.54	2419
724.00	642.6	617.6	1706	1725	203.58	407.68	643.16	2470
726.00	645.1	620.1	1708	1727	202.65	406.05	640.88	2435
728.00	647.4	622.4	1710	1729	201.77	404.52	638.73	2379
730.00	649.8	624.8	1712	1731	200.93	403.04	636.67	2346
732.00	652.2	627.2	1714	1733	200.03	401.46	634.46	2425
734.00	654.6	629.6	1716	1736	199.14	399.90	632.28	2421
736.00	657.0	632.0	1717	1738	198.29	398.42	630.21	2370
738.00	659.4	634.4	1719	1740	197.45	396.94	628.13	2386
740.00	662.0	637.0	1722	1743	196.45	395.17	625.64	2587
742.00	664.4	639.4	1723	1745	195.58	393.64	623.48	2438
744.00	666.9	641.9	1726	1747	194.66	392.00	621.17	2519
746.00	669.3	644.3	1727	1749	193.86	390.59	619.20	2361
748.00	671.8	646.8	1729	1752	192.94	388.96	616.89	2535
750.00	674.3	649.3	1731	1754	192.10	387.48	614.81	2434
752.00	676.7	651.7	1733	1756	191.29	386.04	612.78	2410
754.00	679.1	654.1	1735	1758	190.48	384.62	610.78	2409
756.00	681.6	656.6	1737	1761	189.61	383.07	608.59	2509
758.00	684.2	659.2	1739	1763	188.66	381.37	606.17	2629
760.00	686.8	661.8	1742	1766	187.77	379.78	603.91	2558
762.00	689.2	664.2	1743	1768	186.97	378.36	601.90	2445
764.00	691.8	666.8	1746	1771	186.09	376.78	599.66	2571
766.00	694.3	669.3	1748	1773	185.22	375.23	597.46	2557
768.00	696.9	671.9	1750	1776	184.38	373.72	595.31	2540

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
770.00	699.4	674.4	1752	1778	183.53	372.21	593.16	2547
772.00	702.0	677.0	1754	1781	182.66	370.63	590.91	2609
774.00	704.6	679.6	1756	1783	181.81	369.11	588.75	2572
776.00	707.2	682.2	1758	1786	180.97	367.60	586.58	2581
778.00	709.8	684.8	1760	1788	180.13	366.08	584.42	2593
780.00	712.4	687.4	1763	1791	179.26	364.52	582.18	2637
782.00	714.9	689.9	1764	1793	178.51	363.16	580.25	2485
784.00	717.4	692.4	1766	1795	177.75	361.80	578.31	2493
786.00	719.8	694.8	1768	1797	177.04	360.52	576.50	2430
788.00	722.3	697.3	1770	1799	176.34	359.25	574.70	2435
790.00	724.8	699.8	1772	1801	175.57	357.87	572.72	2536
792.00	727.5	702.5	1774	1804	174.71	356.31	570.48	2692
794.00	730.1	705.1	1776	1807	173.90	354.84	568.36	2633
796.00	732.7	707.7	1778	1809	173.11	353.41	566.31	2607
798.00	735.2	710.2	1780	1811	172.42	352.16	564.52	2462
800.00	737.5	712.5	1781	1813	171.80	351.04	562.93	2348
802.00	739.9	714.9	1783	1814	171.19	349.94	561.37	2340
804.00	742.1	717.1	1784	1815	170.64	348.96	559.99	2220
806.00	744.5	719.5	1785	1817	169.98	347.77	558.28	2443
808.00	747.1	722.1	1787	1819	169.27	346.47	556.42	2541
810.00	749.7	724.7	1789	1822	168.52	345.09	554.43	2618
812.00	752.3	727.3	1791	1824	167.78	343.75	552.49	2601
814.00	754.9	729.9	1793	1826	167.03	342.37	550.51	2636
816.00	757.5	732.5	1795	1829	166.31	341.06	548.61	2591

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
818.00	759.9	734.9	1797	1830	165.70	339.95	547.03	2403
820.00	762.6	737.6	1799	1832	164.99	338.64	545.13	2611
822.00	765.2	740.2	1801	1835	164.26	337.30	543.20	2636
824.00	767.8	742.8	1803	1837	163.57	336.05	541.39	2574
826.00	770.4	745.4	1805	1839	162.86	334.73	539.48	2641
828.00	773.0	748.0	1807	1841	162.19	333.51	537.71	2562
830.00	775.5	750.5	1808	1843	161.54	332.32	535.99	2534
832.00	778.1	753.1	1810	1846	160.85	331.05	534.15	2625
834.00	780.8	755.8	1812	1848	160.14	329.73	532.23	2677
836.00	783.5	758.5	1815	1851	159.44	328.43	530.35	2669
838.00	786.0	761.0	1816	1852	158.82	327.28	528.69	2532
840.00	788.5	763.5	1818	1854	158.21	326.16	527.07	2510
842.00	790.9	765.9	1819	1856	157.66	325.16	525.62	2397
844.00	793.5	768.5	1821	1858	156.99	323.92	523.82	2643
846.00	796.2	771.2	1823	1860	156.30	322.65	521.96	2694
848.00	799.0	774.0	1825	1863	155.59	321.32	520.01	2752
850.00	801.7	776.7	1828	1866	154.90	320.03	518.14	2720
852.00	804.4	779.4	1830	1868	154.25	318.82	516.37	2659
854.00	807.1	782.1	1832	1870	153.56	317.55	514.50	2732
856.00	809.8	784.8	1834	1873	152.89	316.28	512.65	2731
858.00	812.6	787.6	1836	1875	152.20	315.00	510.76	2761
860.00	815.3	790.3	1838	1878	151.54	313.77	508.96	2717
862.00	818.1	793.1	1840	1880	150.87	312.52	507.13	2744
864.00	820.8	795.8	1842	1883	150.22	311.31	505.35	2716

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
866.00	823.4	798.4	1844	1885	149.61	310.16	503.68	2654
868.00	826.1	801.1	1846	1887	149.01	309.03	502.02	2650
870.00	828.8	803.8	1848	1889	148.36	307.81	500.22	2758
872.00	831.5	806.5	1850	1892	147.73	306.64	498.50	2711
874.00	834.2	809.2	1852	1894	147.16	305.57	496.94	2607
876.00	836.9	811.9	1854	1896	146.53	304.39	495.19	2748
878.00	839.7	814.7	1856	1899	145.88	303.15	493.37	2807
880.00	842.5	817.5	1858	1901	145.24	301.96	491.60	2782
882.00	845.1	820.1	1860	1903	144.68	300.89	490.04	2639
884.00	847.6	822.6	1861	1905	144.17	299.94	488.64	2517
886.00	850.0	825.0	1862	1906	143.72	299.10	487.42	2380
888.00	852.8	827.8	1864	1908	143.11	297.97	485.74	2749
890.00	855.5	830.5	1866	1910	142.54	296.88	484.14	2695
892.00	858.0	833.0	1868	1912	142.03	295.92	482.73	2561
894.00	860.7	835.7	1870	1914	141.48	294.89	481.21	2647
896.00	863.1	838.1	1871	1915	141.05	294.08	480.03	2383
898.00	865.4	840.4	1872	1916	140.62	293.28	478.86	2371
900.00	867.7	842.7	1873	1917	140.24	292.57	477.83	2253
902.00	870.1	845.1	1874	1918	139.79	291.72	476.57	2458
904.00	872.6	847.6	1875	1920	139.34	290.88	475.35	2437
906.00	874.9	849.9	1876	1921	138.94	290.13	474.25	2329
908.00	877.4	852.4	1878	1922	138.48	289.27	472.98	2486
910.00	880.2	855.2	1879	1924	137.92	288.19	471.38	2764
912.00	883.0	858.0	1882	1927	137.33	287.07	469.71	2825

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
914.00	885.8	860.8	1884	1929	136.75	285.97	468.07	2813
916.00	888.6	863.6	1886	1932	136.17	284.87	466.43	2823
918.00	891.4	866.4	1888	1934	135.60	283.78	464.80	2821
920.00	894.2	869.2	1890	1936	135.05	282.73	463.24	2778
922.00	897.1	872.1	1892	1939	134.48	281.62	461.59	2856
924.00	899.8	874.8	1894	1941	133.94	280.60	460.06	2763
926.00	902.6	877.6	1895	1943	133.43	279.63	458.61	2712
928.00	905.1	880.1	1897	1944	132.97	278.76	457.31	2589
930.00	907.6	882.6	1898	1946	132.56	277.96	456.14	2478
932.00	910.4	885.4	1900	1948	132.05	276.99	454.70	2731
934.00	913.2	888.2	1902	1950	131.51	275.96	453.15	2819
936.00	916.0	891.0	1904	1952	130.97	274.93	451.60	2839
938.00	918.9	893.9	1906	1955	130.43	273.89	450.04	2843
940.00	921.7	896.7	1908	1957	129.89	272.85	448.48	2865
942.00	924.6	899.6	1910	1960	129.33	271.76	446.84	2931
944.00	927.5	902.5	1912	1962	128.79	270.73	445.29	2875
946.00	930.2	905.2	1914	1964	128.33	269.83	443.95	2695
948.00	932.9	907.9	1915	1966	127.87	268.96	442.64	2677
950.00	935.6	910.6	1917	1967	127.42	268.10	441.35	2659
952.00	938.3	913.3	1919	1969	126.95	267.19	439.99	2742
954.00	941.1	916.1	1921	1972	126.46	266.24	438.55	2812
956.00	944.0	919.0	1923	1974	125.93	265.22	437.02	2906
958.00	946.9	921.9	1925	1976	125.43	264.25	435.56	2848
960.00	949.8	924.8	1927	1979	124.92	263.25	434.05	2905

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
962.00	952.6	927.6	1929	1981	124.43	262.31	432.62	2841
964.00	955.4	930.4	1930	1983	123.96	261.41	431.27	2779
966.00	958.1	933.1	1932	1985	123.52	260.54	429.96	2747
968.00	960.9	935.9	1934	1986	123.07	259.68	428.67	2740
970.00	963.6	938.6	1935	1988	122.63	258.82	427.37	2748
972.00	966.1	941.1	1936	1990	122.27	258.14	426.34	2485
974.00	968.6	943.6	1938	1991	121.91	257.44	425.30	2502
976.00	971.3	946.3	1939	1992	121.50	256.66	424.12	2657
978.00	974.2	949.2	1941	1995	121.02	255.71	422.68	2913
980.00	977.1	952.1	1943	1997	120.52	254.73	421.20	2963
982.00	980.1	955.1	1945	2000	120.01	253.73	419.68	3007
984.00	983.2	958.2	1947	2002	119.50	252.74	418.17	3003
986.00	986.2	961.2	1950	2005	119.00	251.76	416.68	3000
988.00	989.1	964.1	1952	2007	118.50	250.79	415.20	2996
990.00	992.1	967.1	1954	2010	118.01	249.84	413.74	2992
992.00	995.1	970.1	1956	2012	117.53	248.89	412.29	2989
994.00	998.1	973.1	1958	2015	117.05	247.95	410.86	2985
996.00	1001.1	976.1	1960	2017	116.58	247.02	409.44	2981
998.00	1004.1	979.1	1962	2019	116.11	246.09	408.03	2978
1000.00	1007.0	982.0	1964	2022	115.64	245.18	406.64	2974
1002.00	1010.0	985.0	1966	2024	115.18	244.28	405.26	2971
1004.00	1013.0	988.0	1968	2026	114.73	243.39	403.89	2967
1006.00	1016.0	991.0	1970	2029	114.28	242.50	402.54	2964
1008.00	1019.0	994.0	1972	2031	113.81	241.59	401.14	3015

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
1010.00	1022.0	997.0	1974	2034	113.34	240.66	399.72	3049
1012.00	1025.0	1000.0	1976	2036	112.91	239.81	398.42	2938
1014.00	1027.9	1002.9	1978	2038	112.48	238.96	397.11	2955
1016.00	1030.9	1005.9	1980	2040	112.04	238.09	395.79	2980
1018.00	1033.8	1008.8	1982	2042	111.62	237.26	394.50	2946
1020.00	1036.8	1011.8	1984	2045	111.19	236.41	393.20	2980
1022.00	1039.8	1014.8	1986	2047	110.75	235.55	391.89	2991
1024.00	1042.8	1017.8	1988	2049	110.32	234.70	390.58	3005
1026.00	1045.8	1020.8	1990	2052	109.90	233.86	389.28	2998
1028.00	1048.7	1023.7	1992	2054	109.49	233.06	388.06	2921
1030.00	1051.7	1026.7	1994	2056	109.09	232.26	386.83	2944
1032.00	1054.7	1029.7	1996	2058	108.67	231.42	385.54	3017
1034.00	1057.8	1032.8	1998	2060	108.23	230.56	384.20	3074
1036.00	1060.8	1035.8	2000	2063	107.81	229.72	382.91	3035
1038.00	1063.8	1038.8	2002	2065	107.41	228.92	381.68	2985
1040.00	1066.8	1041.8	2003	2067	106.99	228.11	380.42	3024
1042.00	1069.9	1044.9	2006	2070	106.57	227.25	379.10	3094
1044.00	1072.9	1047.9	2008	2072	106.16	226.44	377.85	3030
1046.00	1076.0	1051.0	2010	2074	105.74	225.61	376.57	3078
1048.00	1079.1	1054.1	2012	2077	105.32	224.77	375.26	3108
1050.00	1082.2	1057.2	2014	2079	104.92	223.97	374.02	3058
1052.00	1085.3	1060.3	2016	2082	104.50	223.14	372.73	3113
1054.00	1088.4	1063.4	2018	2084	104.09	222.32	371.47	3090
1056.00	1091.4	1066.4	2020	2086	103.70	221.55	370.26	3035

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
1058.00	1094.5	1069.5	2022	2089	103.30	220.74	369.02	3088
1060.00	1097.6	1072.6	2024	2091	102.89	219.92	367.74	3136
1062.00	1100.8	1075.8	2026	2094	102.48	219.09	366.45	3165
1064.00	1103.9	1078.9	2028	2096	102.07	218.28	365.19	3139
1066.00	1107.0	1082.0	2030	2098	101.68	217.50	363.97	3107
1068.00	1110.1	1085.1	2032	2101	101.29	216.72	362.76	3097
1070.00	1113.1	1088.1	2034	2103	100.93	216.00	361.64	3004
1072.00	1116.3	1091.3	2036	2105	100.54	215.22	360.44	3110
1074.00	1119.3	1094.3	2038	2107	100.17	214.47	359.27	3078
1076.00	1122.5	1097.5	2040	2110	99.78	213.69	358.04	3157
1078.00	1125.7	1100.7	2042	2112	99.37	212.88	356.78	3217
1080.00	1128.9	1103.9	2044	2115	98.97	212.07	355.52	3215
1082.00	1132.2	1107.2	2047	2118	98.57	211.26	354.24	3254
1084.00	1135.5	1110.5	2049	2120	98.15	210.42	352.92	3308
1086.00	1138.7	1113.7	2051	2123	97.76	209.63	351.70	3213
1088.00	1141.9	1116.9	2053	2125	97.39	208.88	350.52	3160
1090.00	1145.0	1120.0	2055	2127	97.03	208.16	349.40	3102
1092.00	1148.1	1123.1	2057	2130	96.67	207.44	348.28	3107
1094.00	1151.3	1126.3	2059	2132	96.30	206.68	347.08	3211
1096.00	1154.4	1129.4	2061	2134	95.94	205.96	345.95	3150
1098.00	1157.5	1132.5	2063	2137	95.59	205.26	344.85	3101
1100.00	1160.6	1135.6	2065	2139	95.26	204.58	343.79	3064
1102.00	1163.7	1138.7	2067	2141	94.91	203.89	342.71	3105
1104.00	1166.9	1141.9	2069	2143	94.56	203.18	341.59	3164

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
1106.00	1170.0	1145.0	2071	2145	94.21	202.46	340.47	3169
1108.00	1173.2	1148.2	2073	2148	93.86	201.76	339.37	3161
1110.00	1176.4	1151.4	2075	2150	93.51	201.06	338.27	3168
1112.00	1179.5	1154.5	2076	2152	93.17	200.37	337.18	3162
1114.00	1182.7	1157.7	2079	2155	92.82	199.66	336.07	3205
1116.00	1185.9	1160.9	2081	2157	92.48	198.96	334.97	3198
1118.00	1189.1	1164.1	2083	2159	92.14	198.27	333.88	3190
1120.00	1192.3	1167.3	2084	2161	91.80	197.59	332.81	3172
1122.00	1195.4	1170.4	2086	2164	91.48	196.93	331.77	3137
1124.00	1198.6	1173.6	2088	2166	91.15	196.28	330.74	3134
1126.00	1201.7	1176.7	2090	2168	90.83	195.62	329.71	3149
1128.00	1204.9	1179.9	2092	2170	90.50	194.95	328.65	3200
1130.00	1208.1	1183.1	2094	2172	90.17	194.28	327.59	3206
1132.00	1211.4	1186.4	2096	2175	89.84	193.60	326.51	3239
1134.00	1214.6	1189.6	2098	2177	89.51	192.92	325.45	3229
1136.00	1217.8	1192.8	2100	2179	89.18	192.26	324.40	3229
1138.00	1221.0	1196.0	2102	2181	88.87	191.62	323.39	3166
1140.00	1224.1	1199.1	2104	2184	88.55	190.99	322.39	3171
1142.00	1227.3	1202.3	2106	2186	88.25	190.36	321.40	3167
1144.00	1230.5	1205.5	2108	2188	87.94	189.73	320.40	3185
1146.00	1233.7	1208.7	2109	2190	87.63	189.10	319.40	3188
1148.00	1236.8	1211.8	2111	2192	87.33	188.49	318.43	3159
1150.00	1240.0	1215.0	2113	2194	87.02	187.87	317.45	3187
1152.00	1243.3	1218.3	2115	2196	86.72	187.24	316.45	3215

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
1154.00	1246.4	1221.4	2117	2198	86.42	186.63	315.48	3188
1156.00	1249.5	1224.5	2119	2200	86.13	186.05	314.57	3107
1158.00	1252.6	1227.6	2120	2202	85.85	185.48	313.66	3103
1160.00	1255.8	1230.8	2122	2204	85.57	184.90	312.75	3129
1162.00	1258.9	1233.9	2124	2206	85.29	184.33	311.84	3123
1164.00	1262.0	1237.0	2125	2208	85.02	183.77	310.95	3098
1166.00	1265.1	1240.1	2127	2210	84.75	183.21	310.07	3097
1168.00	1268.2	1243.2	2129	2212	84.47	182.66	309.19	3106
1170.00	1271.3	1246.3	2130	2213	84.21	182.12	308.34	3065
1172.00	1274.4	1249.4	2132	2215	83.94	181.56	307.45	3123
1174.00	1277.5	1252.5	2134	2217	83.67	181.01	306.57	3133
1176.00	1280.6	1255.6	2135	2219	83.41	180.47	305.71	3095
1178.00	1283.6	1258.6	2137	2220	83.15	179.96	304.90	3029
1180.00	1286.7	1261.7	2138	2222	82.90	179.44	304.08	3049
1182.00	1289.8	1264.8	2140	2224	82.65	178.92	303.25	3077
1184.00	1292.9	1267.9	2142	2226	82.39	178.39	302.42	3088
1186.00	1296.0	1271.0	2143	2227	82.13	177.86	301.56	3125
1188.00	1299.1	1274.1	2145	2229	81.87	177.33	300.72	3131
1190.00	1302.2	1277.2	2147	2231	81.62	176.81	299.89	3095
1192.00	1305.3	1280.3	2148	2233	81.37	176.29	299.06	3115
1194.00	1308.4	1283.4	2150	2235	81.11	175.77	298.23	3121
1196.00	1311.6	1286.6	2152	2236	80.86	175.24	297.39	3154
1198.00	1314.7	1289.7	2153	2238	80.60	174.72	296.55	3143
1200.00	1318.0	1293.0	2155	2240	80.33	174.15	295.64	3293

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
1202.00	1321.4	1296.4	2157	2243	80.05	173.57	294.72	3317
1204.00	1324.6	1299.6	2159	2245	79.78	173.02	293.83	3264
1206.00	1327.9	1302.9	2161	2247	79.51	172.46	292.94	3289
1208.00	1331.2	1306.2	2163	2249	79.24	171.91	292.06	3264
1210.00	1334.4	1309.4	2164	2251	78.98	171.37	291.20	3257
1212.00	1337.7	1312.7	2166	2253	78.72	170.84	290.34	3256
1214.00	1341.0	1316.0	2168	2255	78.46	170.30	289.47	3279
1216.00	1344.2	1319.2	2170	2257	78.20	169.76	288.62	3261
1218.00	1347.5	1322.5	2172	2259	77.94	169.23	287.76	3277
1220.00	1350.8	1325.8	2173	2261	77.69	168.70	286.91	3277
1222.00	1354.0	1329.0	2175	2263	77.44	168.19	286.10	3211
1224.00	1357.3	1332.3	2177	2265	77.19	167.66	285.24	3300
1226.00	1360.6	1335.6	2179	2267	76.93	167.14	284.40	3296
1228.00	1363.7	1338.7	2180	2269	76.71	166.68	283.66	3086
1230.00	1366.8	1341.8	2182	2270	76.48	166.20	282.89	3167
1232.00	1370.0	1345.0	2183	2272	76.25	165.72	282.12	3184
1234.00	1373.2	1348.2	2185	2274	76.01	165.24	281.35	3185
1236.00	1376.3	1351.3	2187	2276	75.79	164.78	280.61	3119
1238.00	1379.4	1354.4	2188	2277	75.58	164.34	279.91	3074
1240.00	1382.5	1357.5	2189	2279	75.37	163.90	279.20	3086
1242.00	1385.6	1360.6	2191	2280	75.15	163.45	278.48	3097
1244.00	1388.6	1363.6	2192	2282	74.95	163.03	277.80	3051
1246.00	1391.8	1366.8	2194	2283	74.72	162.56	277.04	3198
1248.00	1395.2	1370.2	2196	2286	74.47	162.04	276.21	3361

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
1250.00	1398.5	1373.5	2198	2288	74.23	161.53	275.39	3350
1252.00	1401.9	1376.9	2199	2290	73.99	161.03	274.58	3331
1254.00	1405.2	1380.2	2201	2292	73.74	160.53	273.77	3349
1256.00	1408.6	1383.6	2203	2294	73.50	160.03	272.96	3353
1258.00	1411.9	1386.9	2205	2296	73.26	159.53	272.15	3357
1260.00	1415.3	1390.3	2207	2298	73.02	159.02	271.34	3384
1262.00	1418.7	1393.7	2209	2300	72.79	158.54	270.55	3342
1264.00	1421.9	1396.9	2210	2302	72.56	158.07	269.79	3284
1266.00	1425.2	1400.2	2212	2304	72.34	157.61	269.05	3251
1268.00	1428.4	1403.4	2214	2306	72.13	157.16	268.32	3243
1270.00	1431.5	1406.5	2215	2307	71.93	156.75	267.67	3096
1272.00	1434.6	1409.6	2216	2309	71.73	156.35	267.01	3106
1274.00	1437.8	1412.8	2218	2310	71.54	155.94	266.35	3114
1276.00	1440.9	1415.9	2219	2312	71.34	155.52	265.68	3145
1278.00	1444.0	1419.0	2221	2313	71.14	155.11	265.02	3130
1280.00	1447.3	1422.3	2222	2315	70.93	154.67	264.29	3286
1282.00	1450.7	1425.7	2224	2317	70.70	154.20	263.53	3363
1284.00	1454.1	1429.1	2226	2319	70.48	153.73	262.76	3383
1286.00	1457.4	1432.4	2228	2321	70.26	153.26	262.01	3375
1288.00	1460.9	1435.9	2230	2323	70.02	152.76	261.20	3498
1290.00	1464.3	1439.3	2232	2325	69.79	152.29	260.44	3403
1292.00	1467.9	1442.9	2234	2328	69.56	151.80	259.63	3516
1294.00	1471.6	1446.6	2236	2330	69.29	151.24	258.72	3718
1296.00	1475.2	1450.2	2238	2333	69.04	150.72	257.87	3629

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
1298.00	1478.6	1453.6	2240	2335	68.83	150.27	257.14	3386
1300.00	1481.9	1456.9	2241	2337	68.62	149.83	256.42	3359
1302.00	1485.3	1460.3	2243	2339	68.41	149.39	255.71	3350
1304.00	1488.6	1463.6	2245	2341	68.20	148.96	255.01	3331
1306.00	1492.1	1467.1	2247	2343	67.98	148.49	254.24	3505
1308.00	1495.5	1470.5	2248	2345	67.78	148.07	253.56	3329
1310.00	1498.6	1473.6	2250	2346	67.60	147.70	252.96	3124
1312.00	1501.8	1476.8	2251	2348	67.42	147.32	252.34	3170
1314.00	1504.8	1479.8	2252	2349	67.25	146.97	251.76	3082
1316.00	1508.2	1483.2	2254	2351	67.05	146.55	251.09	3333
1318.00	1511.6	1486.6	2256	2353	66.84	146.11	250.37	3427
1320.00	1515.0	1490.0	2258	2355	66.64	145.68	249.66	3431
1322.00	1518.5	1493.5	2259	2357	66.43	145.24	248.95	3448
1324.00	1521.9	1496.9	2261	2359	66.22	144.81	248.24	3433
1326.00	1525.4	1500.4	2263	2361	66.02	144.38	247.54	3441
1328.00	1528.8	1503.8	2265	2363	65.81	143.95	246.84	3451
1330.00	1532.2	1507.2	2267	2365	65.61	143.52	246.14	3435
1332.00	1535.7	1510.7	2268	2367	65.41	143.11	245.46	3414
1334.00	1539.0	1514.0	2270	2368	65.22	142.70	244.80	3376
1336.00	1542.5	1517.5	2272	2371	65.01	142.27	244.09	3511
1338.00	1546.1	1521.1	2274	2373	64.80	141.82	243.36	3554
1340.00	1549.7	1524.7	2276	2375	64.59	141.37	242.62	3594
1342.00	1553.3	1528.3	2278	2377	64.38	140.92	241.88	3595
1344.00	1556.8	1531.8	2279	2379	64.17	140.50	241.19	3514

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
1346.00	1560.2	1535.2	2281	2381	63.99	140.11	240.55	3360
1348.00	1563.5	1538.5	2283	2383	63.81	139.73	239.94	3330
1350.00	1566.7	1541.7	2284	2384	63.64	139.38	239.35	3251
1352.00	1569.9	1544.9	2285	2386	63.48	139.03	238.79	3206
1354.00	1573.1	1548.1	2287	2387	63.32	138.70	238.25	3144
1356.00	1576.2	1551.2	2288	2388	63.17	138.38	237.72	3118
1358.00	1579.2	1554.2	2289	2389	63.03	138.08	237.24	2982
1360.00	1582.1	1557.1	2290	2390	62.89	137.80	236.77	2963
1362.00	1585.1	1560.1	2291	2391	62.75	137.50	236.29	2997
1364.00	1588.2	1563.2	2292	2392	62.61	137.20	235.80	3020
1366.00	1591.2	1566.2	2293	2394	62.46	136.90	235.30	3067
1368.00	1594.3	1569.3	2294	2395	62.32	136.59	234.81	3069
1370.00	1597.4	1572.4	2295	2396	62.17	136.28	234.30	3105
1372.00	1600.6	1575.6	2297	2397	62.01	135.95	233.75	3228
1374.00	1604.0	1579.0	2298	2399	61.85	135.59	233.16	3330
1376.00	1607.4	1582.4	2300	2401	61.67	135.23	232.56	3394
1378.00	1610.8	1585.8	2302	2402	61.50	134.85	231.95	3422
1380.00	1614.2	1589.2	2303	2404	61.32	134.49	231.35	3409
1382.00	1617.3	1592.3	2304	2405	61.18	134.18	230.85	3111
1384.00	1620.4	1595.4	2306	2407	61.03	133.88	230.35	3124
1386.00	1623.6	1598.6	2307	2408	60.89	133.57	229.84	3160
1388.00	1626.8	1601.8	2308	2409	60.73	133.24	229.31	3249
1390.00	1630.1	1605.1	2310	2411	60.57	132.91	228.75	3306
1392.00	1633.5	1608.5	2311	2412	60.41	132.56	228.18	3372

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
1394.00	1636.9	1611.9	2313	2414	60.24	132.20	227.59	3417
1396.00	1640.4	1615.4	2314	2416	60.07	131.84	227.00	3454
1398.00	1643.8	1618.8	2316	2418	59.90	131.48	226.41	3443
1400.00	1647.3	1622.3	2318	2420	59.73	131.12	225.81	3476
1402.00	1650.8	1625.8	2319	2421	59.56	130.76	225.22	3457
1404.00	1654.2	1629.2	2321	2423	59.39	130.41	224.63	3454
1406.00	1657.6	1632.6	2322	2425	59.23	130.06	224.07	3417
1408.00	1661.1	1636.1	2324	2427	59.07	129.71	223.49	3449
1410.00	1664.6	1639.6	2326	2428	58.90	129.36	222.90	3481
1412.00	1668.0	1643.0	2327	2430	58.74	129.01	222.32	3473
1414.00	1671.5	1646.5	2329	2432	58.57	128.66	221.75	3457
1416.00	1674.9	1649.9	2330	2434	58.41	128.33	221.20	3416
1418.00	1678.3	1653.3	2332	2435	58.26	128.00	220.66	3366
1420.00	1681.5	1656.5	2333	2437	58.12	127.70	220.16	3272
1422.00	1684.8	1659.8	2334	2438	57.98	127.40	219.68	3228
1424.00	1688.0	1663.0	2336	2439	57.84	127.11	219.19	3225
1426.00	1691.2	1666.2	2337	2440	57.71	126.82	218.72	3207
1428.00	1694.4	1669.4	2338	2442	57.57	126.53	218.23	3245
1430.00	1697.8	1672.8	2340	2443	57.42	126.22	217.72	3333
1432.00	1701.2	1676.2	2341	2445	57.27	125.90	217.19	3414
1434.00	1704.6	1679.6	2343	2446	57.12	125.58	216.66	3419
1436.00	1708.1	1683.1	2344	2448	56.96	125.24	216.10	3514
1438.00	1711.6	1686.6	2346	2450	56.80	124.91	215.54	3492
1440.00	1715.0	1690.0	2347	2452	56.66	124.59	215.03	3385

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
1442.00	1718.9	1693.9	2349	2454	56.46	124.18	214.34	3904
1444.00	1722.6	1697.6	2351	2456	56.30	123.82	213.75	3648
1446.00	1726.1	1701.1	2353	2458	56.14	123.49	213.20	3527
1448.00	1729.6	1704.6	2354	2460	55.99	123.16	212.66	3514
1450.00	1733.1	1708.1	2356	2462	55.83	122.84	212.12	3500
1452.00	1736.5	1711.5	2357	2463	55.69	122.53	211.60	3439
1454.00	1740.0	1715.0	2359	2465	55.54	122.22	211.09	3454
1456.00	1743.4	1718.4	2360	2466	55.40	121.91	210.58	3432
1458.00	1746.9	1721.9	2362	2468	55.25	121.60	210.06	3488
1460.00	1750.4	1725.4	2364	2470	55.10	121.28	209.54	3493
1462.00	1753.9	1728.9	2365	2471	54.96	120.98	209.02	3473
1464.00	1757.3	1732.3	2367	2473	54.82	120.67	208.52	3448
1466.00	1760.8	1735.8	2368	2475	54.67	120.37	208.01	3483
1468.00	1764.3	1739.3	2370	2476	54.53	120.06	207.50	3489
1470.00	1767.8	1742.8	2371	2478	54.39	119.76	207.00	3469
1472.00	1771.2	1746.2	2373	2480	54.25	119.46	206.51	3425
1474.00	1774.6	1749.6	2374	2481	54.11	119.17	206.02	3448
1476.00	1778.1	1753.1	2375	2483	53.97	118.87	205.53	3450
1478.00	1781.5	1756.5	2377	2484	53.84	118.59	205.06	3408
1480.00	1784.9	1759.9	2378	2486	53.71	118.30	204.58	3421
1482.00	1788.3	1763.3	2380	2487	53.57	118.02	204.11	3412
1484.00	1791.6	1766.6	2381	2488	53.45	117.76	203.68	3276
1486.00	1794.7	1769.7	2382	2489	53.34	117.53	203.29	3113
1488.00	1797.7	1772.7	2383	2490	53.24	117.32	202.95	2958

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
1490.00	1801.0	1776.0	2384	2491	53.12	117.05	202.50	3361
1492.00	1804.6	1779.6	2386	2493	52.98	116.75	201.99	3554
1494.00	1808.1	1783.1	2387	2495	52.84	116.45	201.51	3512
1496.00	1811.3	1786.3	2388	2496	52.73	116.22	201.11	3167
1498.00	1814.4	1789.4	2389	2497	52.62	115.98	200.73	3154
1500.00	1817.6	1792.6	2390	2498	52.51	115.75	200.33	3186
1502.00	1820.8	1795.8	2391	2499	52.40	115.51	199.95	3158
1504.00	1823.9	1798.9	2392	2500	52.29	115.28	199.56	3153
1506.00	1827.1	1802.1	2393	2501	52.18	115.05	199.18	3160
1508.00	1830.3	1805.3	2394	2502	52.08	114.82	198.80	3172
1510.00	1833.5	1808.5	2395	2503	51.97	114.59	198.41	3203
1512.00	1836.7	1811.7	2396	2504	51.86	114.35	198.02	3198
1514.00	1839.9	1814.9	2398	2505	51.74	114.11	197.61	3275
1516.00	1843.3	1818.3	2399	2506	51.63	113.86	197.19	3333
1518.00	1846.6	1821.6	2400	2508	51.50	113.60	196.76	3384
1520.00	1850.1	1825.1	2401	2509	51.38	113.33	196.32	3439
1522.00	1853.5	1828.5	2403	2511	51.26	113.07	195.88	3416
1524.00	1857.0	1832.0	2404	2512	51.13	112.80	195.42	3533
1526.00	1860.5	1835.5	2406	2514	51.00	112.52	194.96	3506
1528.00	1864.0	1839.0	2407	2515	50.88	112.25	194.51	3496
1530.00	1867.6	1842.6	2409	2517	50.75	111.97	194.05	3555
1532.00	1871.1	1846.1	2410	2518	50.62	111.71	193.60	3483
1534.00	1874.5	1849.5	2411	2520	50.50	111.45	193.17	3466
1536.00	1878.1	1853.1	2413	2521	50.38	111.18	192.72	3508

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
1538.00	1881.5	1856.5	2414	2523	50.25	110.92	192.28	3497
1540.00	1885.1	1860.1	2416	2524	50.13	110.65	191.84	3514
1542.00	1888.6	1863.6	2417	2526	50.01	110.39	191.40	3490
1544.00	1892.0	1867.0	2418	2527	49.89	110.14	190.98	3461
1546.00	1895.4	1870.4	2420	2529	49.77	109.89	190.56	3431
1548.00	1898.9	1873.9	2421	2530	49.66	109.64	190.14	3462
1550.00	1902.4	1877.4	2422	2532	49.54	109.39	189.72	3453
1552.00	1905.8	1880.8	2424	2533	49.43	109.15	189.32	3397
1554.00	1909.1	1884.1	2425	2534	49.32	108.92	188.93	3333
1556.00	1912.3	1887.3	2426	2535	49.22	108.70	188.57	3243
1558.00	1915.6	1890.6	2427	2536	49.12	108.48	188.21	3235
1560.00	1918.7	1893.7	2428	2537	49.02	108.28	187.86	3182
1562.00	1921.8	1896.8	2429	2538	48.93	108.09	187.54	3069
1564.00	1924.9	1899.9	2430	2539	48.84	107.89	187.21	3108
1566.00	1928.1	1903.1	2431	2540	48.74	107.68	186.86	3219
1568.00	1931.5	1906.5	2432	2541	48.64	107.45	186.48	3350
1570.00	1934.8	1909.8	2433	2542	48.54	107.24	186.12	3284
1572.00	1938.0	1913.0	2434	2543	48.44	107.02	185.76	3268
1574.00	1941.3	1916.3	2435	2544	48.34	106.81	185.41	3264
1576.00	1944.6	1919.6	2436	2545	48.24	106.59	185.04	3304
1578.00	1948.0	1923.0	2437	2546	48.14	106.37	184.67	3348
1580.00	1951.3	1926.3	2438	2548	48.03	106.15	184.30	3374
1582.00	1954.8	1929.8	2440	2549	47.92	105.92	183.91	3425
1584.00	1958.5	1933.5	2441	2551	47.80	105.65	183.46	3693

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
1586.00	1962.3	1937.3	2443	2553	47.67	105.37	182.99	3796
1588.00	1966.2	1941.2	2445	2555	47.53	105.07	182.48	3928
1590.00	1970.2	1945.2	2447	2557	47.39	104.76	181.97	3973
1592.00	1974.0	1949.0	2448	2559	47.26	104.48	181.49	3849
1594.00	1977.7	1952.7	2450	2561	47.13	104.21	181.04	3721
1596.00	1981.5	1956.5	2452	2563	47.01	103.94	180.58	3795
1598.00	1985.4	1960.4	2454	2565	46.87	103.65	180.09	3925
1600.00	1989.4	1964.4	2456	2567	46.74	103.35	179.59	3977
1602.00	1993.4	1968.4	2457	2569	46.60	103.05	179.08	4014
1604.00	1997.4	1972.4	2459	2572	46.46	102.75	178.58	4008
1606.00	2001.4	1976.4	2461	2574	46.32	102.46	178.08	3989
1608.00	2004.9	1979.9	2463	2575	46.22	102.23	177.70	3504
1610.00	2008.2	1983.2	2464	2576	46.13	102.04	177.38	3243
1612.00	2011.6	1986.6	2465	2578	46.03	101.83	177.02	3440
1614.00	2014.9	1989.9	2466	2579	45.94	101.63	176.70	3266
1616.00	2018.2	1993.2	2467	2580	45.85	101.43	176.36	3317
1618.00	2021.7	1996.7	2468	2581	45.74	101.21	175.99	3538
1620.00	2025.7	2000.7	2470	2583	45.61	100.92	175.50	4004
1622.00	2029.8	2004.8	2472	2586	45.47	100.63	175.00	4069
1624.00	2033.8	2008.8	2474	2588	45.34	100.34	174.51	4035
1626.00	2038.0	2013.0	2476	2590	45.20	100.04	174.00	4126
1628.00	2042.1	2017.1	2478	2593	45.06	99.74	173.50	4136
1630.00	2046.3	2021.3	2480	2595	44.92	99.43	172.98	4168
1632.00	2050.4	2025.4	2482	2598	44.79	99.14	172.48	4129

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
1634.00	2054.5	2029.5	2484	2600	44.65	98.85	172.00	4096
1636.00	2058.5	2033.5	2486	2602	44.52	98.57	171.52	4039
1638.00	2062.5	2037.5	2488	2604	44.40	98.31	171.08	3942
1640.00	2066.6	2041.6	2490	2607	44.27	98.02	170.59	4131
1642.00	2070.9	2045.9	2492	2610	44.12	97.70	170.05	4315
1644.00	2075.2	2050.2	2494	2612	43.98	97.40	169.54	4247
1646.00	2079.4	2054.4	2496	2615	43.85	97.10	169.04	4217
1648.00	2083.6	2058.6	2498	2617	43.71	96.82	168.55	4179
1650.00	2087.7	2062.7	2500	2619	43.59	96.54	168.09	4090
1652.00	2091.7	2066.7	2502	2622	43.46	96.27	167.63	4041
1654.00	2095.7	2070.7	2504	2624	43.34	96.01	167.18	4044
1656.00	2099.9	2074.9	2506	2626	43.21	95.73	166.72	4125
1658.00	2104.0	2079.0	2508	2629	43.09	95.46	166.26	4113
1660.00	2108.1	2083.1	2510	2631	42.96	95.19	165.80	4126
1662.00	2112.1	2087.1	2512	2633	42.84	94.93	165.36	4026
1664.00	2115.9	2090.9	2513	2635	42.74	94.71	164.99	3748
1666.00	2119.7	2094.7	2515	2636	42.63	94.48	164.59	3862
1668.00	2123.7	2098.7	2516	2638	42.52	94.24	164.18	3905
1670.00	2127.4	2102.4	2518	2640	42.42	94.02	163.82	3730
1672.00	2131.2	2106.2	2519	2642	42.32	93.80	163.44	3802
1674.00	2135.0	2110.0	2521	2643	42.22	93.58	163.06	3785
1676.00	2138.8	2113.8	2522	2645	42.12	93.35	162.69	3808
1678.00	2142.7	2117.7	2524	2647	42.01	93.12	162.30	3883
1680.00	2146.5	2121.5	2526	2648	41.91	92.90	161.92	3838

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
1682.00	2150.4	2125.4	2527	2650	41.80	92.67	161.53	3892
1684.00	2154.4	2129.4	2529	2652	41.69	92.43	161.12	3990
1686.00	2158.2	2133.2	2530	2654	41.59	92.21	160.75	3813
1688.00	2162.0	2137.0	2532	2656	41.49	92.00	160.39	3815
1690.00	2165.8	2140.8	2534	2657	41.39	91.78	160.02	3813
1692.00	2169.7	2144.7	2535	2659	41.29	91.56	159.64	3887
1694.00	2173.6	2148.6	2537	2661	41.19	91.34	159.27	3861
1696.00	2177.1	2152.1	2538	2662	41.10	91.15	158.95	3566
1698.00	2180.8	2155.8	2539	2664	41.01	90.96	158.62	3684
1700.00	2184.7	2159.7	2541	2665	40.91	90.74	158.25	3858
1702.00	2188.5	2163.5	2542	2667	40.82	90.53	157.90	3801
1704.00	2192.4	2167.4	2544	2669	40.71	90.31	157.52	3931
1706.00	2196.3	2171.3	2546	2671	40.61	90.09	157.15	3934
1708.00	2200.1	2175.1	2547	2672	40.52	89.88	156.80	3775
1710.00	2203.8	2178.8	2548	2673	40.43	89.70	156.48	3659
1712.00	2207.7	2182.7	2550	2675	40.33	89.48	156.12	3877
1714.00	2211.6	2186.6	2551	2677	40.24	89.27	155.76	3903
1716.00	2215.3	2190.3	2553	2678	40.15	89.08	155.43	3728
1718.00	2219.0	2194.0	2554	2680	40.06	88.88	155.09	3761
1720.00	2222.8	2197.8	2556	2681	39.97	88.69	154.77	3732
1722.00	2226.3	2201.3	2557	2683	39.89	88.51	154.47	3563
1724.00	2230.1	2205.1	2558	2684	39.80	88.32	154.15	3718
1726.00	2233.8	2208.8	2559	2685	39.71	88.13	153.82	3759
1728.00	2237.6	2212.6	2561	2687	39.62	87.93	153.49	3788

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
1730.00	2241.5	2216.5	2562	2689	39.53	87.73	153.15	3842
1732.00	2245.2	2220.2	2564	2690	39.44	87.55	152.83	3703
1734.00	2248.6	2223.6	2565	2691	39.37	87.39	152.56	3477
1736.00	2252.2	2227.2	2566	2692	39.29	87.22	152.27	3528
1738.00	2255.9	2230.9	2567	2694	39.21	87.03	151.95	3760
1740.00	2259.6	2234.6	2569	2695	39.12	86.85	151.65	3691
1742.00	2263.2	2238.2	2570	2696	39.05	86.68	151.36	3576
1744.00	2266.8	2241.8	2571	2697	38.97	86.51	151.07	3598
1746.00	2270.5	2245.5	2572	2699	38.89	86.33	150.77	3676
1748.00	2274.1	2249.1	2573	2700	38.80	86.16	150.47	3680
1750.00	2278.0	2253.0	2575	2702	38.72	85.97	150.14	3813
1752.00	2281.7	2256.7	2576	2703	38.63	85.78	149.83	3775
1754.00	2285.5	2260.5	2577	2704	38.55	85.60	149.52	3738
1756.00	2289.1	2264.1	2579	2706	38.47	85.43	149.23	3635
1758.00	2292.7	2267.7	2580	2707	38.40	85.27	148.96	3578
1760.00	2296.4	2271.4	2581	2708	38.32	85.10	148.66	3675
1762.00	2299.9	2274.9	2582	2709	38.25	84.94	148.39	3535
1764.00	2303.5	2278.5	2583	2710	38.17	84.77	148.11	3645
1766.00	2307.1	2282.1	2585	2712	38.09	84.61	147.83	3604
1768.00	2310.9	2285.9	2586	2713	38.01	84.43	147.53	3725
1770.00	2314.6	2289.6	2587	2714	37.94	84.26	147.24	3696
1772.00	2318.2	2293.2	2588	2715	37.86	84.10	146.97	3597
1774.00	2321.7	2296.7	2589	2717	37.79	83.94	146.70	3587
1776.00	2325.5	2300.5	2591	2718	37.71	83.77	146.41	3710

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
1778.00	2329.2	2304.2	2592	2719	37.63	83.60	146.11	3774
1780.00	2333.1	2308.1	2593	2721	37.55	83.42	145.80	3845
1782.00	2336.9	2311.9	2595	2722	37.46	83.24	145.50	3812
1784.00	2340.5	2315.5	2596	2724	37.39	83.08	145.22	3648
1786.00	2344.0	2319.0	2597	2725	37.32	82.93	144.97	3469
1788.00	2347.5	2322.5	2598	2726	37.26	82.78	144.72	3519
1790.00	2351.1	2326.1	2599	2727	37.18	82.63	144.45	3614
1792.00	2354.8	2329.8	2600	2728	37.11	82.46	144.17	3679
1794.00	2358.7	2333.7	2602	2730	37.03	82.28	143.87	3884
1796.00	2362.6	2337.6	2603	2731	36.94	82.10	143.56	3890
1798.00	2366.4	2341.4	2604	2733	36.87	81.93	143.27	3817
1800.00	2370.2	2345.2	2606	2734	36.79	81.76	142.98	3793
1802.00	2374.0	2349.0	2607	2735	36.71	81.59	142.69	3795
1804.00	2377.8	2352.8	2608	2737	36.63	81.43	142.40	3786
1806.00	2381.6	2356.6	2610	2738	36.56	81.26	142.12	3799
1808.00	2385.1	2360.1	2611	2739	36.49	81.11	141.87	3555
1810.00	2388.7	2363.7	2612	2740	36.42	80.97	141.62	3550
1812.00	2392.1	2367.1	2613	2741	36.36	80.83	141.39	3402
1814.00	2395.8	2370.8	2614	2742	36.29	80.68	141.13	3670
1816.00	2399.2	2374.2	2615	2743	36.23	80.54	140.89	3492
1818.00	2402.6	2377.6	2616	2744	36.17	80.41	140.67	3352
1820.00	2406.2	2381.2	2617	2745	36.10	80.27	140.43	3560
1822.00	2409.6	2384.6	2618	2746	36.04	80.14	140.21	3394
1824.00	2413.0	2388.0	2618	2747	35.98	80.00	139.97	3477

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
1826.00	2416.4	2391.4	2619	2747	35.92	79.87	139.75	3416
1828.00	2419.9	2394.9	2620	2748	35.86	79.74	139.52	3465
1830.00	2423.3	2398.3	2621	2749	35.80	79.61	139.31	3374
1832.00	2426.8	2401.8	2622	2750	35.74	79.48	139.08	3470
1834.00	2430.1	2405.1	2623	2751	35.68	79.35	138.86	3386
1836.00	2433.6	2408.6	2624	2752	35.62	79.22	138.64	3417
1838.00	2436.7	2411.7	2624	2752	35.57	79.11	138.46	3158
1840.00	2439.7	2414.7	2625	2752	35.53	79.01	138.29	2992
1842.00	2442.8	2417.8	2625	2753	35.48	78.91	138.11	3136
1844.00	2445.9	2420.9	2626	2753	35.43	78.81	137.93	3048
1846.00	2448.9	2423.9	2626	2753	35.39	78.71	137.77	2997
1848.00	2451.9	2426.9	2627	2754	35.34	78.61	137.60	3029
1850.00	2454.9	2429.9	2627	2754	35.30	78.51	137.44	2985
1852.00	2458.0	2433.0	2627	2754	35.25	78.41	137.26	3059
1854.00	2461.0	2436.0	2628	2755	35.21	78.31	137.10	3022
1856.00	2464.0	2439.0	2628	2755	35.16	78.22	136.93	3042
1858.00	2467.2	2442.2	2629	2755	35.11	78.11	136.74	3202
1860.00	2470.4	2445.4	2629	2756	35.06	78.00	136.56	3166
1862.00	2473.7	2448.7	2630	2757	35.01	77.89	136.36	3271
1864.00	2476.9	2451.9	2631	2757	34.96	77.77	136.18	3235
1866.00	2480.1	2455.1	2631	2758	34.91	77.67	135.99	3170
1868.00	2483.2	2458.2	2632	2758	34.86	77.56	135.82	3147
1870.00	2486.4	2461.4	2632	2758	34.82	77.46	135.64	3148
1872.00	2489.5	2464.5	2633	2759	34.77	77.36	135.46	3142

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
1874.00	2492.6	2467.6	2634	2759	34.72	77.26	135.29	3084
1876.00	2495.6	2470.6	2634	2760	34.68	77.16	135.13	3050
1878.00	2498.9	2473.9	2635	2760	34.63	77.05	134.94	3243
1880.00	2502.1	2477.1	2635	2761	34.58	76.94	134.75	3237
1882.00	2505.3	2480.3	2636	2761	34.53	76.84	134.58	3161
1884.00	2508.4	2483.4	2636	2762	34.48	76.74	134.40	3129
1886.00	2511.5	2486.5	2637	2762	34.44	76.64	134.23	3101
1888.00	2514.6	2489.6	2637	2762	34.39	76.54	134.06	3127
1890.00	2517.8	2492.8	2638	2763	34.35	76.43	133.89	3163
1892.00	2520.9	2495.9	2638	2763	34.30	76.34	133.72	3076
1894.00	2524.0	2499.0	2639	2764	34.26	76.24	133.56	3077
1896.00	2527.0	2502.0	2639	2764	34.21	76.14	133.39	3086
1898.00	2530.1	2505.1	2640	2764	34.17	76.05	133.23	3033
1900.00	2533.1	2508.1	2640	2764	34.13	75.96	133.07	3041
1902.00	2536.1	2511.1	2640	2765	34.09	75.87	132.92	2988
1904.00	2539.1	2514.1	2641	2765	34.04	75.78	132.77	2987
1906.00	2541.9	2516.9	2641	2765	34.01	75.70	132.63	2806
1908.00	2544.6	2519.6	2641	2765	33.97	75.63	132.51	2721
1910.00	2547.4	2522.4	2641	2765	33.94	75.55	132.38	2749
1912.00	2550.2	2525.2	2641	2765	33.90	75.47	132.24	2821
1914.00	2552.9	2527.9	2641	2765	33.87	75.40	132.12	2673
1916.00	2555.6	2530.6	2642	2765	33.84	75.33	132.00	2722
1918.00	2558.2	2533.2	2642	2765	33.81	75.26	131.88	2647
1920.00	2561.1	2536.1	2642	2765	33.77	75.18	131.74	2856

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
1922.00	2564.0	2539.0	2642	2765	33.73	75.09	131.60	2896
1924.00	2566.9	2541.9	2642	2765	33.69	75.01	131.46	2912
1926.00	2569.7	2544.7	2643	2765	33.66	74.93	131.33	2841
1928.00	2572.5	2547.5	2643	2765	33.62	74.86	131.20	2761
1930.00	2575.2	2550.2	2643	2765	33.59	74.78	131.07	2732
1932.00	2578.0	2553.0	2643	2765	33.55	74.71	130.94	2805
1934.00	2580.9	2555.9	2643	2765	33.52	74.63	130.81	2834
1936.00	2583.6	2558.6	2643	2765	33.48	74.55	130.68	2780
1938.00	2586.4	2561.4	2643	2765	33.45	74.48	130.56	2760
1940.00	2589.2	2564.2	2643	2765	33.42	74.41	130.43	2769
1942.00	2592.1	2567.1	2644	2765	33.38	74.33	130.29	2896
1944.00	2594.9	2569.9	2644	2766	33.34	74.25	130.16	2819
1946.00	2597.6	2572.6	2644	2765	33.31	74.18	130.04	2702
1948.00	2600.4	2575.4	2644	2766	33.28	74.10	129.91	2849
1950.00	2603.2	2578.2	2644	2766	33.24	74.03	129.78	2784
1952.00	2606.1	2581.1	2645	2766	33.21	73.95	129.65	2843
1954.00	2608.9	2583.9	2645	2766	33.17	73.88	129.52	2784
1956.00	2611.6	2586.6	2645	2766	33.14	73.80	129.40	2720
1958.00	2614.4	2589.4	2645	2766	33.11	73.73	129.27	2820
1960.00	2617.2	2592.2	2645	2766	33.07	73.66	129.15	2785
1962.00	2619.9	2594.9	2645	2766	33.04	73.59	129.03	2698
1964.00	2622.7	2597.7	2645	2766	33.01	73.51	128.90	2810
1966.00	2625.5	2600.5	2645	2766	32.97	73.44	128.78	2816
1968.00	2628.2	2603.2	2646	2766	32.94	73.37	128.66	2747

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
1970.00	2631.1	2606.1	2646	2766	32.91	73.29	128.53	2818
1972.00	2633.9	2608.8	2646	2766	32.87	73.22	128.40	2784
1974.00	2636.6	2611.6	2646	2766	32.84	73.15	128.28	2763
1976.00	2639.4	2614.4	2646	2766	32.81	73.07	128.16	2796
1978.00	2642.4	2617.4	2647	2766	32.77	72.99	128.01	3004
1980.00	2645.3	2620.3	2647	2766	32.73	72.91	127.88	2888
1982.00	2648.1	2623.1	2647	2766	32.70	72.84	127.75	2818
1984.00	2650.9	2625.9	2647	2766	32.66	72.77	127.63	2821
1986.00	2653.7	2628.7	2647	2766	32.63	72.69	127.50	2808
1988.00	2656.6	2631.6	2647	2766	32.60	72.62	127.38	2816
1990.00	2659.4	2634.4	2648	2766	32.56	72.55	127.25	2812
1992.00	2662.2	2637.2	2648	2767	32.53	72.47	127.12	2870
1994.00	2665.1	2640.1	2648	2767	32.50	72.40	127.00	2826
1996.00	2667.9	2642.9	2648	2767	32.46	72.32	126.87	2846
1998.00	2670.8	2645.8	2648	2767	32.43	72.25	126.74	2874
2000.00	2673.7	2648.7	2649	2767	32.39	72.17	126.61	2911
2002.00	2676.6	2651.6	2649	2767	32.36	72.10	126.48	2877
2004.00	2679.4	2654.4	2649	2767	32.32	72.02	126.36	2859
2006.00	2682.3	2657.3	2649	2767	32.29	71.95	126.23	2860
2008.00	2685.2	2660.2	2650	2767	32.25	71.87	126.09	2936
2010.00	2688.2	2663.2	2650	2768	32.22	71.79	125.96	2952
2012.00	2691.1	2666.1	2650	2768	32.18	71.71	125.82	2953
2014.00	2694.1	2669.1	2651	2768	32.15	71.63	125.69	2926
2016.00	2697.1	2672.1	2651	2768	32.11	71.55	125.55	3051

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
2018.00	2700.1	2675.1	2651	2768	32.07	71.47	125.42	2952
2020.00	2703.0	2678.0	2651	2769	32.04	71.40	125.28	2944
2022.00	2706.0	2681.0	2652	2769	32.00	71.32	125.15	2965
2024.00	2709.0	2684.0	2652	2769	31.96	71.23	125.01	3056
2026.00	2712.0	2687.0	2652	2769	31.93	71.16	124.88	2934
2028.00	2714.9	2689.9	2653	2769	31.89	71.08	124.75	2927
2030.00	2717.9	2692.9	2653	2770	31.86	71.00	124.61	2985
2032.00	2721.0	2696.0	2653	2770	31.82	70.92	124.47	3075
2034.00	2723.9	2698.9	2654	2770	31.79	70.84	124.33	2970
2036.00	2726.9	2701.9	2654	2770	31.75	70.77	124.20	2951
2038.00	2729.8	2704.8	2654	2770	31.72	70.69	124.08	2882
2040.00	2732.7	2707.7	2655	2771	31.68	70.61	123.94	2985
2042.00	2735.7	2710.7	2655	2771	31.65	70.54	123.81	3004
2044.00	2738.8	2713.8	2655	2771	31.61	70.45	123.67	3056
2046.00	2741.8	2716.8	2656	2771	31.57	70.38	123.54	2959
2048.00	2744.8	2719.8	2656	2772	31.54	70.30	123.40	3037
2050.00	2747.8	2722.8	2656	2772	31.50	70.22	123.27	3003
2052.00	2750.8	2725.8	2657	2772	31.47	70.14	123.14	2977
2054.00	2753.7	2728.7	2657	2772	31.43	70.07	123.01	2887
2056.00	2756.6	2731.6	2657	2772	31.40	70.00	122.89	2904
2058.00	2759.4	2734.4	2657	2772	31.37	69.93	122.77	2877
2060.00	2762.4	2737.4	2658	2773	31.34	69.86	122.64	2926
2062.00	2765.3	2740.3	2658	2773	31.30	69.78	122.51	2976
2064.00	2768.3	2743.3	2658	2773	31.27	69.71	122.39	2932

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
2066.00	2771.3	2746.3	2659	2773	31.23	69.63	122.26	2993
2068.00	2774.3	2749.3	2659	2773	31.20	69.55	122.12	3010
2070.00	2777.3	2752.3	2659	2774	31.16	69.48	121.99	2996
2072.00	2780.2	2755.2	2659	2774	31.13	69.41	121.87	2920
2074.00	2783.1	2758.1	2660	2774	31.10	69.34	121.75	2860
2076.00	2785.9	2760.9	2660	2774	31.07	69.27	121.63	2859
2078.00	2788.8	2763.8	2660	2774	31.03	69.20	121.51	2928
2080.00	2791.8	2766.8	2660	2774	31.00	69.12	121.38	2972
2082.00	2794.8	2769.8	2661	2775	30.97	69.05	121.26	2971
2084.00	2798.0	2773.0	2661	2775	30.93	68.96	121.10	3252
2086.00	2801.3	2776.3	2662	2776	30.89	68.87	120.95	3275
2088.00	2804.6	2779.6	2662	2776	30.85	68.78	120.80	3239
2090.00	2807.8	2782.8	2663	2777	30.81	68.70	120.65	3244
2092.00	2811.1	2786.1	2664	2777	30.76	68.60	120.49	3311
2094.00	2814.4	2789.4	2664	2778	30.72	68.51	120.33	3338
2096.00	2817.8	2792.8	2665	2778	30.68	68.42	120.17	3367
2098.00	2821.1	2796.1	2665	2779	30.64	68.33	120.02	3263
2100.00	2824.4	2799.4	2666	2779	30.60	68.24	119.87	3344
2102.00	2827.8	2802.8	2667	2780	30.56	68.15	119.70	3393
2104.00	2831.2	2806.2	2668	2781	30.51	68.05	119.54	3405
2106.00	2834.7	2809.7	2668	2781	30.47	67.95	119.37	3525
2108.00	2838.2	2813.2	2669	2782	30.42	67.85	119.20	3456
2110.00	2841.6	2816.6	2670	2783	30.38	67.76	119.04	3426
2112.00	2845.0	2820.0	2670	2784	30.34	67.66	118.87	3408

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
2114.00	2848.4	2823.4	2671	2784	30.29	67.57	118.71	3417
2116.00	2851.9	2826.9	2672	2785	30.25	67.47	118.55	3466
2118.00	2855.4	2830.4	2673	2786	30.21	67.38	118.38	3475
2120.00	2858.9	2833.9	2673	2786	30.16	67.28	118.21	3460
2122.00	2862.3	2837.3	2674	2787	30.12	67.19	118.05	3476
2124.00	2865.8	2840.8	2675	2788	30.08	67.09	117.89	3434
2126.00	2869.1	2844.1	2676	2788	30.04	67.00	117.73	3347
2128.00	2872.6	2847.6	2676	2789	29.99	66.91	117.57	3492
2130.00	2876.1	2851.1	2677	2790	29.95	66.81	117.40	3544
2132.00	2880.0	2855.0	2678	2791	29.90	66.69	117.20	3844
2134.00	2883.5	2858.5	2679	2792	29.85	66.59	117.03	3549
2136.00	2887.0	2862.0	2680	2793	29.81	66.50	116.87	3449
2138.00	2890.3	2865.3	2680	2793	29.77	66.41	116.72	3351
2140.00	2893.8	2868.8	2681	2794	29.73	66.32	116.55	3500
2142.00	2897.4	2872.4	2682	2795	29.68	66.22	116.38	3548
2144.00	2901.0	2876.0	2683	2796	29.63	66.12	116.21	3664
2146.00	2904.6	2879.6	2684	2796	29.59	66.02	116.04	3563
2148.00	2908.1	2883.1	2684	2797	29.55	65.93	115.87	3518
2150.00	2911.6	2886.6	2685	2798	29.50	65.83	115.71	3488
2152.00	2915.2	2890.2	2686	2799	29.46	65.73	115.54	3585
2154.00	2918.6	2893.6	2687	2799	29.42	65.65	115.39	3392
2156.00	2922.0	2897.0	2687	2800	29.38	65.56	115.24	3383
2158.00	2925.4	2900.4	2688	2801	29.34	65.47	115.09	3428
2160.00	2928.8	2903.8	2689	2801	29.30	65.38	114.94	3444

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
2162.00	2932.3	2907.3	2689	2802	29.26	65.29	114.78	3434
2164.00	2935.7	2910.7	2690	2803	29.22	65.21	114.63	3388
2166.00	2939.1	2914.1	2691	2803	29.18	65.12	114.49	3406
2168.00	2942.4	2917.4	2691	2804	29.14	65.04	114.34	3341
2170.00	2945.8	2920.8	2692	2804	29.10	64.95	114.19	3409
2172.00	2949.3	2924.3	2693	2805	29.06	64.86	114.03	3505
2174.00	2952.8	2927.8	2693	2806	29.02	64.77	113.88	3475
2176.00	2956.2	2931.2	2694	2806	28.98	64.68	113.73	3425
2178.00	2959.8	2934.8	2695	2807	28.94	64.59	113.57	3581
2180.00	2963.4	2938.4	2696	2808	28.90	64.49	113.40	3596
2182.00	2966.9	2941.9	2697	2809	28.86	64.41	113.25	3488
2184.00	2970.4	2945.4	2697	2809	28.82	64.32	113.09	3525
2186.00	2974.2	2949.2	2698	2810	28.77	64.21	112.91	3781
2188.00	2978.0	2953.0	2699	2812	28.72	64.11	112.73	3792
2190.00	2981.8	2956.8	2700	2813	28.67	64.00	112.55	3803
2192.00	2985.4	2960.4	2701	2813	28.63	63.91	112.39	3641
2194.00	2988.8	2963.8	2702	2814	28.59	63.83	112.25	3363
2196.00	2992.3	2967.3	2702	2815	28.55	63.74	112.10	3453
2198.00	2995.8	2970.8	2703	2815	28.51	63.65	111.94	3524
2200.00	2999.5	2974.5	2704	2816	28.47	63.55	111.77	3753
2202.00	3003.4	2978.4	2705	2817	28.42	63.45	111.59	3846
2204.00	3007.1	2982.1	2706	2818	28.38	63.35	111.42	3705
2206.00	3010.8	2985.8	2707	2819	28.33	63.25	111.26	3674
2208.00	3014.4	2989.4	2708	2820	28.29	63.16	111.10	3607

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
2210.00	3018.1	2993.1	2709	2821	28.25	63.06	110.93	3703
2212.00	3021.6	2996.6	2709	2822	28.21	62.98	110.78	3536
2214.00	3025.4	3000.4	2710	2823	28.16	62.88	110.61	3775
2216.00	3029.2	3004.2	2711	2824	28.12	62.78	110.43	3775
2218.00	3033.0	3008.0	2712	2825	28.07	62.68	110.26	3823
2220.00	3036.8	3011.8	2713	2826	28.03	62.58	110.09	3794
2222.00	3040.6	3015.6	2714	2827	27.98	62.48	109.91	3803
2224.00	3044.4	3019.4	2715	2828	27.94	62.38	109.74	3823
2226.00	3048.1	3023.1	2716	2829	27.89	62.28	109.57	3745
2228.00	3051.6	3026.6	2717	2830	27.86	62.20	109.43	3479
2230.00	3055.3	3030.3	2718	2830	27.81	62.11	109.27	3657
2232.00	3059.0	3034.0	2719	2831	27.77	62.01	109.11	3713
2234.00	3062.7	3037.7	2720	2832	27.73	61.92	108.95	3734
2236.00	3066.2	3041.2	2720	2833	27.69	61.84	108.80	3493
2238.00	3069.8	3044.8	2721	2834	27.65	61.75	108.65	3600
2240.00	3073.5	3048.5	2722	2835	27.61	61.66	108.49	3732
2242.00	3077.4	3052.4	2723	2836	27.56	61.56	108.32	3848
2244.00	3081.2	3056.2	2724	2837	27.52	61.46	108.15	3819
2246.00	3084.9	3059.9	2725	2838	27.48	61.37	107.99	3717
2248.00	3088.7	3063.7	2726	2839	27.44	61.27	107.83	3775
2250.00	3092.3	3067.3	2726	2839	27.40	61.19	107.68	3591
2252.00	3095.9	3070.9	2727	2840	27.36	61.10	107.53	3591
2254.00	3099.4	3074.4	2728	2841	27.32	61.02	107.39	3535

PE602740

This is an enclosure indicator page.
The enclosure PE602740 is enclosed within the container PE903933 at this location in this document.

The enclosure PE602740 has the following characteristics:

ITEM_BARCODE	= PE602740
CONTAINER_BARCODE	= PE903933
NAME	= Blackback 3 VSP stacked data plot 1
BASIN	= GIPPSLAND
PERMIT	= VIC/P24
TYPE	= WELL
SUBTYPE	= VELOCITY_CHART
DESCRIPTION	= Blackback 3 Vertical Seismic Profile with zero offset (stacked data) plot 1 from appendix-5 from volume 1 of WCR
REMARKS	=
DATE_CREATED	= 12/04/94
DATE_RECEIVED	= 20/10/94
W_NO	= W1097
WELL_NAME	= Blackback-3
CONTRACTOR	= Schlumberger
CLIENT_OP_CO	= Esso Australia Ltd

(Inserted by DNRE - Vic Govt Mines Dept)

PE602741

This is an enclosure indicator page.
The enclosure PE602741 is enclosed within the container PE903933 at this location in this document.

The enclosure PE602741 has the following characteristics:

ITEM_BARCODE	PE602741
CONTAINER_BARCODE	PE903933
NAME	Blackback 3 VSP amplitude recovert plot 2
BASIN	GIPPSLAND
PERMIT	VIC/P24
TYPE	WELL
SUBTYPE	VELOCITY_CHART
DESCRIPTION	Blackback 3 Vertical Seismic Profile with zero offset (Amplitude Recovery) plot 2 from appendix-5 from volume 1 of WCR
REMARKS	
DATE_CREATED	12/04/94
DATE_RECEIVED	20/10/94
W_NO	W1097
WELL_NAME	Blackback-3
CONTRACTOR	Schlumberger
CLIENT_OP_CO	Esso Australia Ltd

(Inserted by DNRE - Vic Govt Mines Dept)

PE602742

This is an enclosure indicator page.
The enclosure PE602742 is enclosed within the container PE903933 at this location in this document.

The enclosure PE602742 has the following characteristics:

ITEM_BARCODE	= PE602742
CONTAINER_BARCODE	= PE903933
NAME	= Blackback 3 VSP velocity filtering plot 3
BASIN	= GIPPSLAND
PERMIT	= VIC/P24
TYPE	= WELL
SUBTYPE	= VELOCITY_CHART
DESCRIPTION	= Blackback 3 Vertical Seismic Profile with zero offset (Velocity Filtering) plot 3 from appendix-5m volume 1 of WCR
REMARKS	=
DATE_CREATED	= 12/04/94
DATE_RECEIVED	= 20/10/94
W_NO	= W1097
WELL_NAME	= Blackback-3
CONTRACTOR	= Schlumberger
CLIENT_OP_CO	= Esso Australia Ltd

(Inserted by DNRE - Vic Govt Mines Dept)

PE602743

This is an enclosure indicator page.
The enclosure PE602743 is enclosed within the container PE903933 at this location in this document.

The enclosure PE602743 has the following characteristics:

ITEM_BARCODE	PE602743
CONTAINER_BARCODE	PE903933
NAME	Blackback 3 VSP waveshaping deconvolution plot 4
BASIN	GIPPSLAND
PERMIT	VIC/P24
TYPE	WELL
SUBTYPE	VELOCITY_CHART
DESCRIPTION	Blackback 3 Vertical Seismic Profile with zero offset (Waveshaping Deconvolution) plot 4 from appendix-5 from volume 1 of WCR
REMARKS	
DATE_CREATED	12/04/94
DATE_RECEIVED	20/10/94
W_NO	W1097
WELL_NAME	Blackback-3
CONTRACTOR	Schlumberger
CLIENT_OP_CO	Esso Australia Ltd

(Inserted by DNRE - Vic Govt Mines Dept)

PE602744

This is an enclosure indicator page.
The enclosure PE602744 is enclosed within the container PE903933 at this location in this document.

The enclosure PE602744 has the following characteristics:

ITEM_BARCODE	= PE602744
CONTAINER_BARCODE	= PE903933
NAME	= Blackback 3 VSP waveshaping & corridor stack (5)
BASIN	= GIPPSLAND
PERMIT	= VIC/P24
TYPE	= WELL
SUBTYPE	= VELOCITY_CHART
DESCRIPTION	= Blackback 3 Vertical Seismic Profile with zero offset (Waveshaping & Corridor Stack) plot-5 from appendix-5 from volume 1 of WCR
REMARKS	=
DATE_CREATED	= 12/04/94
DATE_RECEIVED	= 20/10/94
W_NO	= W1097
WELL_NAME	= Blackback-3
CONTRACTOR	= Schlumberger
CLIENT_OP_CO	= Esso Australia Ltd

(Inserted by DNRE - Vic Govt Mines Dept)

PE602745

This is an enclosure indicator page.
The enclosure PE602745 is enclosed within the container PE903933 at this location in this document.

The enclosure PE602745 has the following characteristics:

ITEM_BARCODE	PE602745
CONTAINER_BARCODE	PE903933
NAME	Blackback 3 VSP waveshaping & corridor stack (5A)
BASIN	GIPPSLAND
PERMIT	VIC/P24
TYPE	WELL
SUBTYPE	VELOCITY_CHART
DESCRIPTION	Blackback 3 Vertical Seismic Profile with zero offset (Waveshaping & Corridor Stack with 90 deg. phase rotation) plot-5A from appendix-5 from volume 1 of WCR
REMARKS	
DATE_CREATED	12/04/94
DATE_RECEIVED	20/10/94
W_NO	W1097
WELL_NAME	Blackback-3
CONTRACTOR	Schlumberger
CLIENT_OP_CO	Esso Australia Ltd

(Inserted by DNRE - Vic Govt Mines Dept)

PE602746

This is an enclosure indicator page.
The enclosure PE602746 is enclosed within the container PE903933 at this location in this document.

The enclosure PE602746 has the following characteristics:

ITEM_BARCODE	= PE602746
CONTAINER_BARCODE	= PE903933
NAME	= Blackback 3 VSP and geogram composite plot 6
BASIN	= GIPPSLAND
PERMIT	= VIC/P24
TYPE	= WELL
SUBTYPE	= VELOCITY_CHART
DESCRIPTION	= Blackback 3 Vertical Seismic Profile with zero offset (VSP and Geogram composite with normal polarity) plot 6 from appendix-5 from volume 1 of WCR
REMARKS	=
DATE_CREATED	= 12/04/94
DATE_RECEIVED	= 20/10/94
W_NO	= W1097
WELL_NAME	= Blackback-3
CONTRACTOR	= Schlumberger
CLIENT_OP_CO	= Esso Australia Ltd

(Inserted by DNRE - Vic Govt Mines Dept)

PE602747

This is an enclosure indicator page.
The enclosure PE602747 is enclosed within the container PE903933 at this location in this document.

The enclosure PE602747 has the following characteristics:

ITEM_BARCODE	= PE602747
CONTAINER_BARCODE	= PE903933
NAME	= Blackback 3 VSP and geogram composite plot 7
BASIN	= GIPPSLAND
PERMIT	= VIC/P24
TYPE	= WELL
SUBTYPE	= VELOCITY_CHART
DESCRIPTION	= Blackback 3 Vertical Seismic Profile with zero offset (VSP and Geogram composite with reverse polarity) plot 7 from appendix-5 from volume 1 of WCR
REMARKS	=
DATE_CREATED	= 12/04/94
DATE_RECEIVED	= 20/10/94
W_NO	= W1097
WELL_NAME	= Blackback-3
CONTRACTOR	= Schlumberger
CLIENT_OP_CO	= Esso Australia Ltd

(Inserted by DNRE - Vic Govt Mines Dept)

PE602748

This is an enclosure indicator page.
The enclosure PE602748 is enclosed within the container PE903933 at this location in this document.

The enclosure PE602748 has the following characteristics:

ITEM_BARCODE	= PE602748
CONTAINER_BARCODE	= PE903933
NAME	= Blackback 3 Seismic Calibration Log
BASIN	= GIPPSLAND
PERMIT	= VIC/P24
TYPE	= WELL
SUBTYPE	= WELL_LOG
DESCRIPTION	= Blackback 3 Seismic Calibration Log. From appendix-5, Volume 1 of WCR
REMARKS	=
DATE_CREATED	= 12/04/94
DATE_RECEIVED	= 20/10/94
W_NO	= W1097
WELL_NAME	= Blackback-3
CONTRACTOR	= Schlumberger
CLIENT_OP_CO	= Esso Australia Ltd

(Inserted by DNRE - Vic Govt Mines Dept)

PE602749

This is an enclosure indicator page.
The enclosure PE602749 is enclosed within the container PE903933 at this location in this document.

The enclosure PE602749 has the following characteristics:

ITEM_BARCODE	= PE602749
CONTAINER_BARCODE	= PE903933
NAME	= Blackback 3 Synthetic Seismogram (Geogram)
BASIN	= GIPPSLAND
PERMIT	= VIC/P24
TYPE	= WELL
SUBTYPE	= SYNTH_SEISMOGRAPH
DESCRIPTION	= Blackback 3 Synthethic Seismogram (from appendix-5, Vol 1 of WCR)
REMARKS	=
DATE_CREATED	= 12/04/94
DATE_RECEIVED	= 20/10/94
W_NO	= W1097
WELL_NAME	= Blackback-3
CONTRACTOR	= Schlumberger
CLIENT_OP_CO	= Esso Australia Ltd

(Inserted by DNRE - Vic Govt Mines Dept)

PE602750

This is an enclosure indicator page.
The enclosure PE602750 is enclosed within the container PE903933 at this location in this document.

The enclosure PE602750 has the following characteristics:

ITEM_BARCODE	= PE602750
CONTAINER_BARCODE	= PE903933
NAME	= Blackback 3 Synthetic Seismogram (Geogram)
BASIN	= GIPPSLAND
PERMIT	= VIC/P24
TYPE	= WELL
SUBTYPE	= SYNTH_SEISMOGRAPH
DESCRIPTION	= Blackback 3 Synthethic Seismogram (from appendix-5, Vol 1 of WCR)
REMARKS	=
DATE_CREATED	= 12/04/94
DATE_RECEIVED	= 20/10/94
W_NO	= W1097
WELL_NAME	= Blackback-3
CONTRACTOR	= Schlumberger
CLIENT_OP_CO	= Esso Australia Ltd

(Inserted by DNRE - Vic Govt Mines Dept)

PE602751

This is an enclosure indicator page.
The enclosure PE602751 is enclosed within the container PE903933 at this location in this document.

The enclosure PE602751 has the following characteristics:

ITEM_BARCODE	= PE602751
CONTAINER_BARCODE	= PE903933
NAME	= Blackback 3 Synthetic Seismogram (Geogram)
BASIN	= GIPPSLAND
PERMIT	= VIC/P24
TYPE	= WELL
SUBTYPE	= SYNTH_SEISMOGRAPH
DESCRIPTION	= Blackback 3 Synthethic Seismogram (from appendix-5, Vol 1 of WCR)
REMARKS	=
DATE_CREATED	= 12/04/94
DATE_RECEIVED	= 20/10/94
W_NO	= W1097
WELL_NAME	= Blackback-3
CONTRACTOR	= Schlumberger
CLIENT_OP_CO	= Esso Australia Ltd

(Inserted by DNRE - Vic Govt Mines Dept)

PE602752

This is an enclosure indicator page.
The enclosure PE602752 is enclosed within the container PE903933 at this location in this document.

The enclosure PE602752 has the following characteristics:

ITEM_BARCODE	= PE602752
CONTAINER_BARCODE	= PE903933
NAME	= Blackback 3 Drift Corrected Sonic Log
BASIN	= GIPPSLAND
PERMIT	= VIC/P24
TYPE	= WELL
SUBTYPE	= WELL_LOG
DESCRIPTION	= Blackback 3 Drift Corrected Sonic Log (from appendix-5, Vol 1 of WCR)
REMARKS	=
DATE_CREATED	= 12/04/94
DATE_RECEIVED	= 20/10/94
W_NO	= W1097
WELL_NAME	= Blackback-3
CONTRACTOR	= Schlumberger
CLIENT_OP_CO	= Esso Australia Ltd

(Inserted by DNRE - Vic Govt Mines Dept)

PE602753

This is an enclosure indicator page.
The enclosure PE602753 is enclosed within the container PE903933 at this location in this document.

The enclosure PE602753 has the following characteristics:

ITEM_BARCODE	= PE602753
CONTAINER_BARCODE	= PE903933
NAME	= Blackback 3 Synthetic Seismogram (Geogram)
BASIN	= GIPPSLAND
PERMIT	= VIC/P24
TYPE	= WELL
SUBTYPE	= SYNTH_SEISMOGRAPH
DESCRIPTION	= Blackback 3 Synthethic Seismogram (from appendix-5, Vol 1 of WCR)
REMARKS	=
DATE_CREATED	= 12/04/94
DATE_RECEIVED	= 20/10/94
W_NO	= W1097
WELL_NAME	= Blackback-3
CONTRACTOR	= Schlumberger
CLIENT_OP_CO	= Esso Australia Ltd

(Inserted by DNRE - Vic Govt Mines Dept)

PE603672

This is an enclosure indicator page.
The enclosure PE603672 is enclosed within the container PE903933 at this location in this document.

The enclosure PE603672 has the following characteristics:

ITEM_BARCODE	= PE603672
CONTAINER_BARCODE	= PE903933
NAME	= Blackback 3 Synthetic Seismogram (Geogram)
BASIN	= GIPPSLAND
PERMIT	= VIC/P24
TYPE	= WELL
SUBTYPE	= SYNTH_SEISMOGRAPH
DESCRIPTION	= Blackback 3 Synthethic Seismogram (from appendix-5, Vol 1 of WCR)
REMARKS	=
DATE_CREATED	= 12/04/94
DATE_RECEIVED	= 20/10/94
W_NO	= W1097
WELL_NAME	= Blackback-3
CONTRACTOR	= Schlumberger
CLIENT_OP_CO	= Esso Australia Ltd

(Inserted by DNRE - Vic Govt Mines Dept)