Schlumberger

B.H.P. PETROLEUM

WELL SEISMIC PROCESSING REPORT

LABELLA-1

FIELD : WILDCAT

COUNTRY : AUSTRALIA

COORDINATES : 039 00' 14.2" S
: 142 41' 42.9" E

DATE OF SURVEY : 11-FEB-1993

REFERENCE NO. : VSP :560974
: GEOGRAM:560975

INTERVAL : 2743.0 - 620.0 M

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1. Introduction

A vertical seismic profile was recorded over two suites, with overlap between surveys, for the LABELLA-1 well on the 30th of January and the 11th of February 1993. The data was processed using the conventional zero offset vertical incidence processing chain using only the vertical component. Synthetics and a seismic calibration log were also produced utilising corrected vertical times.

2. Data Acquisition

The data was acquired using the three component seismic acquisition tool (CSI).
A three 150 cu inch airgun Array was used as the source for Suite-1 and a single 200 cu inch bolt gun firing at 120 bar for Suite 2. Gun depth was 10 metres below mean sea level. Seven shots per level were taken with the levels selected by BHPP.
Recording was made on the Schlumberger MAXIS Unit, using DLIS format.
A copy of the field logs is given in the enclosure at the back of this report.

Table 1. Survey Parameters

Elevation of KB	25.3 metres AMSL
Elevation of DF	25.0 metres AMSL
Elevation of GL	95.0 metres below MSL
Total Depth	2734 metres below DF
Energy Source	3 airgun array (suite-1) Single bolt gun (suite-2)
Source Offset	47 metres
Source Depth	10 metres below MSL
Reference Sensor	Hydrophone
Hydrophone Offset	47 metres
Hydrophone Depth	17 metres below MSL
Azimuth of source	50 degrees

3. Sonic Calibration Processing

3.1 Sonic Calibration

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

The gradient of drift, that is the slope of the drift curve, can be negative or positive. For a negative drift $\frac{\Delta drift}{\Delta depth} < 0$, the sonic time is greater than the seismic time over a certain section of the log.

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

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

Two methods of correction to the sonic log are used.

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

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

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

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

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

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

3.2 Open Hole Logs

The sonic log has been recorded from 2743.0 to 620.0 metres below KB. The 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 conditions.

The gamma ray and calliper 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 is the seismic reference datum . Static corrections are applied to correct for source offset and source depth. This involves using a velocity of 1480 m/sec.

3.4 Sonic Calibration Results

The top of the sonic log (620 metres below DF) is chosen as the origin for the calibration drift curve.

The drift curve is the correction imposed upon the sonic log. The adjusted sonic curve is considered to be the best result using the available data. A list of shifts used on the sonic data is given in sonic adjustment parameter report provided in the drift listings section of the report.

4. Synthetic Seismogram Processing

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

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

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

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

4.1 Depth to Time Conversion

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

4.2 Primary Reflection Coefficients

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

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

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 from the above result we obtain multiples only.

4.6 Wavelet

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

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

Time variant Butterworth filtering can be applied after convolution.

4.7 Polarity Convention

An increase in acoustic impedance gives a positive reflection 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

This the standard procedure of convolving the wavelet with reflection coefficients. The output of the convolution is the actual 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. At this stage a shot edit is peformed and levels are selected for calibration of the sonic data and Vsp processing.

The data quality is excellent with the vertical component stacks displaying a consistent signature and a high signal to noise ratio.

5.2 Spherical Divergence Correction and Bandpass Filter

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

$$GAIN(T) = \left(\frac{T}{T_0}\right)^{\alpha}$$

is also used (T is the recorded time, T_0 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 seven level 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 level filter. The data is now displayed in two way time (plot 4).

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 700 ms. The desired outputs were chosen to be zero phase and minimum phase with a band width of 10-60 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 on 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 100 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 Plots 5 and 6.

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 7and 8 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 an excellent 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, $\frac{\text{dsrd}}{\text{shtm}}$.

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

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

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

A2 Drift Computation Report

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

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

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

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

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

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

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

A3 Sonic Adjustment Parameter Report

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

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

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

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

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

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

7. Reduction factor: see section 4 of report.

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

A4 Velocity Report

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

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

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

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

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

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

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

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

A5 Time Converted Velocity Report

the data in this listing has been resampled in time.

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

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

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

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

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

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

where v_i is the velocity between each 2 millisecs interval.

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

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

where:

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

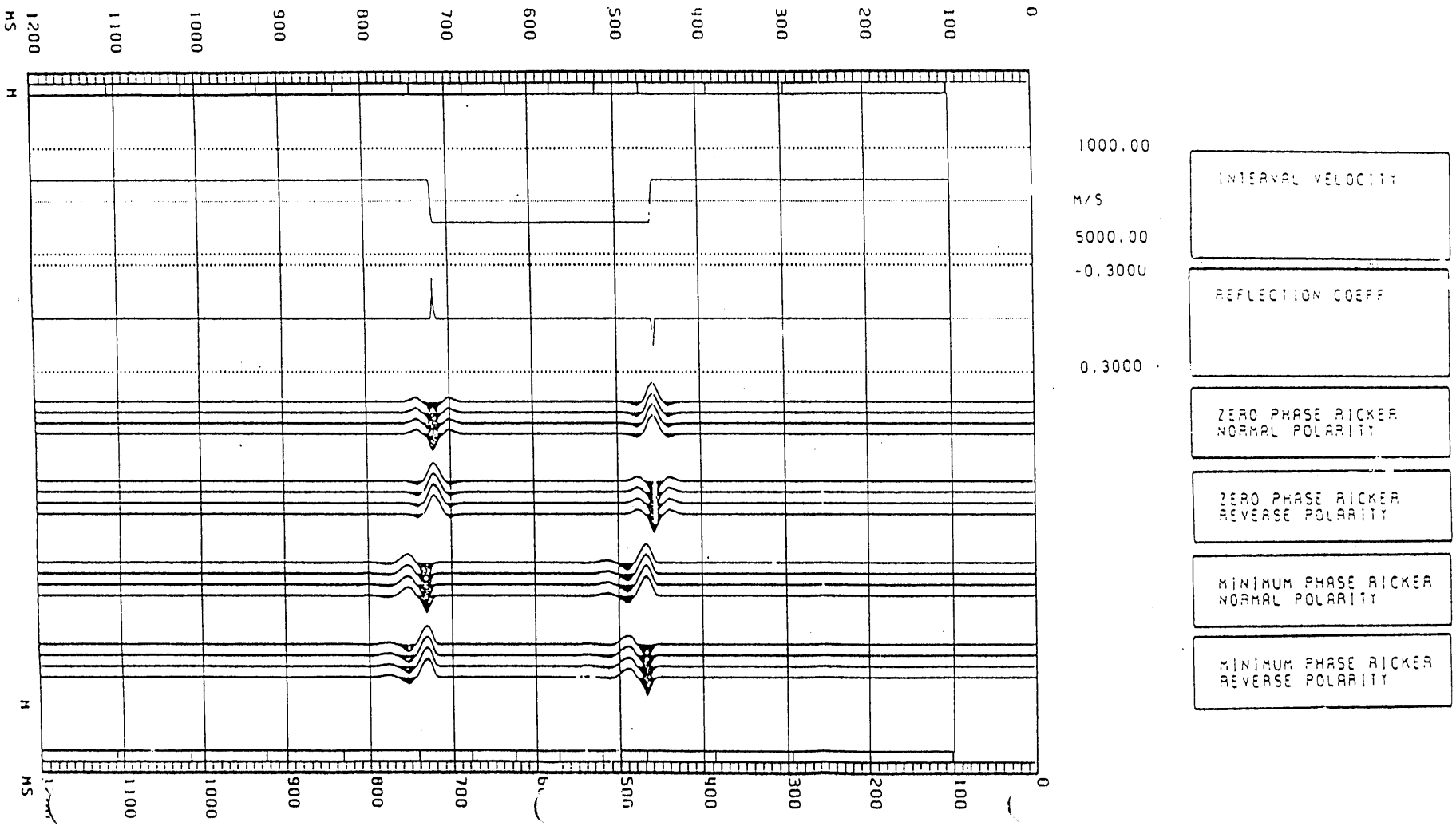
7. Second normal moveout: the correction time in millisecs to be applied to the two way travel time for a specified moveout distance (default = 4500 feet).

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

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

SCHLUMBERGER (SEG-1976) WAVELET POLARITY CONVENTION

Figure 1



SHOTS

ANALYST: Z.KATELIS 23-JUN-93 15:34:30 PROGRAM: GSHOT 007.E08

SCHLUMBERGER

GEOPHYSICAL AIRGUN REPORT

COMPANY : BHP PETROLEUM

WELL : LA BELLA-1

FIELD : WILDCAT

COUNTRY : AUSTRALIA

REFERENCE: SYJ-560875

LONG DEFINITIONS

GLOBAL

KB - Elevation of the KELLY-BUSHING Above MSL or MWL
SRD - Elevation of the Seismic Reference Datum Above MSL or MWL
EKB - Elevation of Kelly Bushing
GL - Elevation of Users Reference (Generally Ground Level) Above SRD
VELHYD - VELOCITY OF THE MEDIUM BETWEEN THE SOURCE AND THE HYDROPHONE
VELSUR - VELOCITY OF THE MEDIUM BETWEEN THE SOURCE AND THE SRD

MATRIX

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

SAMPLED

SHOT.GSH - Shot number
DKB.GSH - Measured Depth from Kelly-Bushing
DSRD.GSH - Depth from SRD
DGL.GSH - Vertical Depth Relative to Ground Level (User's Reference)
TIMO.GSH - 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
ELEV OF GL AB. SRD(WST)	GL	: -95.0000	M
VEL SOURCE-HYDRO(WST)	VELHYD	: 1480.00	M/S
VEL SOURCE-SRD (WST)	VELSUR	: 1480.00	M/S

(MATRIX PARAMETERS)

	SOURCE ELV M	SOURCE EW M	SOURCE NS M	HYDRO ELEV M	HYDRO EW M	HYDRO NS M
1	-10.00	36.00	30.21	-17.00	36.00	30.21

	TRT HYD-SC MS	TRT SC-SRD MS
1	4.73	6.76

	MD @ KB M	VD @ KB M	VD @ SRD M	E-W COORD M	N-S COORD M
1	120.00	120.00	95.00	0	0
2	200.00	200.00	175.00	0	0
3	250.00	250.00	225.00	0	0
4	300.00	300.00	275.00	0	0
5	350.00	350.00	325.00	0	0
6	400.00	400.00	375.00	0	0
7	450.00	450.00	425.00	0	0
8	500.00	500.00	475.00	0	0
9	550.00	550.00	525.00	0	0
10	600.00	600.00	575.00	0	0
11	640.00	640.00	615.00	0	0
12	690.00	690.00	665.00	0	0
13	740.00	740.00	715.00	0	0
14	780.00	780.00	755.00	0	0
15	800.00	800.00	775.00	0	0
16	820.00	820.00	795.00	0	0
17	840.00	840.00	815.00	0	0
18	861.00	861.00	836.00	0	0
19	880.00	880.00	855.00	0	0
20	900.00	900.00	875.00	0	0
21	920.00	920.00	895.00	0	0
22	940.00	940.00	915.00	0	0
23	960.00	960.00	935.00	0	0
24	980.00	980.00	955.00	0	0
25	1000.00	1000.00	975.00	0	0
26	1020.00	1020.00	995.00	0	0
27	1040.00	1040.00	1015.00	0	0
28	1060.00	1060.00	1035.00	0	0
29	1080.00	1080.00	1055.00	0	0
30	1100.00	1100.00	1075.00	0	0
31	1120.00	1120.00	1095.00	0	0
32	1140.00	1140.00	1115.00	0	0
33	1160.00	1160.00	1135.00	0	0

34	1180.00	1180.00	1155.00	0	0
35	1203.00	1203.00	1178.00	0	0
36	1220.00	1220.00	1195.00	0	0
37	1240.00	1240.00	1215.00	0	0
38	1260.00	1260.00	1235.00	0	0
39	1280.00	1280.00	1255.00	0	0
40	1300.00	1300.00	1275.00	0	0
41	1322.00	1322.00	1297.00	0	0
42	1340.00	1340.00	1315.00	0	0
43	1360.00	1360.00	1335.00	0	0
44	1380.00	1380.00	1355.00	0	0
45	1405.00	1405.00	1380.00	0	0
46	1420.00	1420.00	1395.00	0	0
47	1440.00	1440.00	1415.00	0	0
48	1460.00	1460.00	1435.00	0	0
49	1480.00	1480.00	1455.00	0	0
50	1502.00	1502.00	1477.00	0	0
51	1520.00	1520.00	1495.00	0	0
52	1540.00	1540.00	1515.00	0	0
53	1564.00	1564.00	1539.00	0	0
54	1580.00	1580.00	1555.00	0	0
55	1600.00	1600.00	1575.00	0	0
56	1620.00	1620.00	1595.00	0	0
57	1640.00	1640.00	1615.00	0	0
58	1660.00	1660.00	1635.00	0	0
59	1680.00	1680.00	1655.00	0	0
60	1701.00	1701.00	1676.00	0	0
61	1723.00	1723.00	1698.00	0	0
62	1745.00	1745.00	1720.00	0	0
63	1770.00	1770.00	1745.00	0	0
64	1801.00	1801.00	1776.00	0	0
65	1817.00	1817.00	1792.00	0	0
66	1835.00	1835.00	1810.00	0	0
67	1855.00	1855.00	1830.00	0	0
68	1875.00	1875.00	1850.00	0	0
69	1902.00	1902.00	1877.00	0	0
70	1915.00	1915.00	1890.00	0	0
71	1937.00	1937.00	1912.00	0	0
72	1959.00	1959.00	1934.00	0	0
73	1975.00	1975.00	1950.00	0	0
74	1995.00	1995.00	1970.00	0	0
75	2017.00	2017.00	1992.00	0	0
76	2035.00	2035.00	2010.00	0	0
77	2055.00	2055.00	2030.00	0	0
78	2075.00	2075.00	2050.00	0	0
79	2096.00	2096.00	2071.00	0	0
80	2115.00	2115.00	2090.00	0	0
81	2135.00	2135.00	2110.00	0	0
82	2156.00	2156.00	2131.00	0	0
83	2174.00	2174.00	2149.00	0	0
84	2195.00	2195.00	2170.00	0	0
85	2215.00	2215.00	2190.00	0	0
86	2230.00	2230.00	2205.00	0	0

87	2257.00	2257.00	2232.00	0	0
88	2283.00	2283.00	2258.00	0	0
89	2290.00	2290.00	2265.00	0	0
90	2310.00	2310.00	2285.00	0	0
91	2335.00	2335.00	2310.00	0	0
92	2355.00	2355.00	2330.00	0	0
93	2375.00	2375.00	2350.00	0	0
94	2392.00	2392.00	2367.00	0	0
95	2413.00	2413.00	2388.00	0	0
96	2435.00	2435.00	2410.00	0	0
97	2455.00	2455.00	2430.00	0	0
98	2477.00	2477.00	2452.00	0	0
99	2501.00	2501.00	2476.00	0	0
100	2515.00	2515.00	2490.00	0	0
101	2533.00	2533.00	2508.00	0	0
102	2555.00	2555.00	2530.00	0	0
103	2580.00	2580.00	2555.00	0	0
104	2595.00	2595.00	2570.00	0	0
105	2614.00	2614.00	2589.00	0	0
106	2634.00	2634.00	2609.00	0	0
107	2655.00	2655.00	2630.00	0	0
108	2675.00	2675.00	2650.00	0	0
109	2690.00	2690.00	2665.00	0	0
110	2715.00	2715.00	2690.00	0	0
111	2734.00	2734.00	2709.00	0	0

LEVEL NUMBER	MEASUR DEPTH FROM KB M	VERTIC DEPTH FROM SRD M	VERTIC DEPTH FROM GL M	OBSERV TRAVEL TIME HYD/GEO MS	VERTIC TRAVEL TIME SRC/GEO MS	VERTIC TRAVEL TIME SRD/GEO MS	AVERAGE VELOC SRD/GEO M/S	DELTA DEPTH BETWEEN SHOTS M	DELTA TIME BETWEEN SHOTS MS	INTERV VELOC BETWEEN SHOTS M/S
1	120.00	95.00	0	60.90	57.43	64.19	1480			
								80.00	35.99	2223
2	200.00	175.00	80.00	92.41	93.42	100.18	1747			
								50.00	24.64	2029
3	250.00	225.00	130.00	116.12	118.06	124.82	1803			
								50.00	23.54	2124
4	300.00	275.00	180.00	139.08	141.60	148.36	1854			
								50.00	20.66	2420
5	350.00	325.00	230.00	159.33	162.26	169.02	1923			
								50.00	20.46	2444
6	400.00	375.00	280.00	179.50	182.72	189.48	1979			
								50.00	19.00	2632
7	450.00	425.00	330.00	198.28	201.72	208.48	2039			
								50.00	21.24	2354
8	500.00	475.00	380.00	219.37	222.96	229.72	2068			
								50.00	18.34	2726
9	550.00	525.00	430.00	237.58	241.31	248.06	2116			
								50.00	19.52	2561
10	600.00	575.00	480.00	257.00	260.83	267.59	2149			
								40.00	15.03	2661
11	640.00	615.00	520.00	271.96	275.86	282.62	2176			
								50.00	18.03	2774
12	690.00	665.00	570.00	289.91	293.88	300.64	2212			
								50.00	17.64	2834
13	740.00	715.00	620.00	307.49	311.53	318.28	2246			
								40.00	14.54	2750
14	780.00	755.00	660.00	321.99	326.07	332.83	2268			
								20.00	6.89	2903
15	800.00	775.00	680.00	328.86	332.96	339.72	2281			
								20.00	7.66	2612
16	820.00	795.00	700.00	336.50	340.62	347.38	2289			
								20.00	7.14	2802
17	840.00	815.00	720.00	343.62	347.76	354.51	2299			
								21.00	7.67	2739
18	861.00	836.00	741.00	351.27	355.42	362.18	2308			
								19.00	6.71	2834
19	880.00	855.00	760.00	357.96	362.13	368.89	2318			
								20.00	7.35	2719
20	900.00	875.00	780.00	365.30	369.48	376.24	2326			
								20.00	7.17	2788
21	920.00	895.00	800.00	372.46	376.66	383.42	2334			
								20.00	8.05	2484
22	940.00	915.00	820.00	380.50	384.71	391.47	2337			
								20.00	6.99	2860
23	960.00	935.00	840.00	387.48	391.70	398.46	2347			
								20.00	8.30	2409
24	980.00	955.00	860.00	395.77	400.01	406.76	2348			

LEVEL NUMBER	MEASUR DEPTH FROM KB M	VERTIC DEPTH FROM SRD M	VERTIC DEPTH FROM GL M	OBSERV TRAVEL TIME HYD/GEO MS	VERTIC TRAVEL TIME SRC/GEO MS	VERTIC TRAVEL TIME SRD/GEO MS	AVERAGE VELOC SRD/GEO M/S	DELTA DEPTH BETWEEN SHOTS M	DELTA TIME BETWEEN SHOTS MS	INTERV VELOC BETWEEN SHOTS M/S
25	1000.00	975.00	880.00	404.19	408.44	415.19	2348	20.00	8.43	2372
26	1020.00	995.00	900.00	411.59	415.85	422.60	2354	20.00	7.41	2699
27	1040.00	1015.00	920.00	419.58	423.85	430.60	2357	20.00	8.00	2500
28	1060.00	1035.00	940.00	426.78	431.06	437.81	2364	20.00	7.21	2774
29	1080.00	1055.00	960.00	433.99	438.28	445.03	2371	20.00	7.22	2770
30	1100.00	1075.00	980.00	440.53	444.83	451.58	2381	20.00	6.55	3053
31	1120.00	1095.00	1000.00	447.43	451.74	458.49	2388	20.00	6.91	2895
32	1140.00	1115.00	1020.00	454.38	458.70	465.45	2396	20.00	6.96	2874
33	1160.00	1135.00	1040.00	460.79	465.11	471.87	2405	20.00	6.42	3116
34	1180.00	1155.00	1060.00	467.39	471.72	478.48	2414	20.00	6.61	3026
35	1203.00	1178.00	1083.00	475.26	479.60	486.36	2422	23.00	7.88	2919
36	1220.00	1195.00	1100.00	480.99	485.34	492.09	2428	17.00	5.74	2963
37	1240.00	1215.00	1120.00	487.80	492.16	498.91	2435	20.00	6.82	2934
38	1260.00	1235.00	1140.00	494.38	498.74	505.50	2443	20.00	6.59	3036
39	1280.00	1255.00	1160.00	501.77	506.14	512.90	2447	20.00	7.40	2704
40	1300.00	1275.00	1180.00	506.95	511.33	518.08	2461	20.00	5.19	3855
41	1322.00	1297.00	1202.00	513.09	517.47	524.23	2474	22.00	6.15	3579
42	1340.00	1315.00	1220.00	517.81	522.20	528.96	2486	18.00	4.73	3808
43	1360.00	1335.00	1240.00	523.19	527.59	534.34	2498	20.00	5.39	3713
44	1380.00	1355.00	1260.00	527.99	532.39	539.15	2513	20.00	4.81	4161
45	1405.00	1380.00	1285.00	535.34	539.75	546.51	2525	25.00	7.36	3398
46	1420.00	1395.00	1300.00	540.22	544.64	551.39	2530	15.00	4.88	3071
47	1440.00	1415.00	1320.00	545.52	549.94	556.70	2542	20.00	5.31	3769
48	1460.00	1435.00	1340.00	552.73	557.16	563.91	2545	20.00	7.21	2772

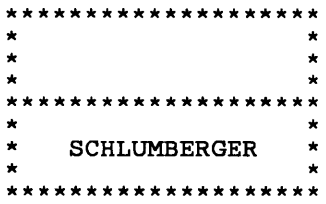
LEVEL NUMBER	MEASUR DEPTH FROM KB M	VERTIC DEPTH FROM SRD M	VERTIC DEPTH FROM GL M	OBSERV TRAVEL TIME HYD/GEO MS	VERTIC TRAVEL TIME SRC/GEO MS	VERTIC TRAVEL TIME SRD/GEO MS	AVERAGE VELOC SRD/GEO M/S	DELTA DEPTH BETWEEN SHOTS M	DELTA TIME BETWEEN SHOTS MS	INTERV VELOC BETWEEN SHOTS M/S
49	1480.00	1455.00	1360.00	558.43	562.86	569.62	2554	20.00	5.71	3506
50	1502.00	1477.00	1382.00	564.23	568.67	575.42	2567	22.00	5.81	3789
51	1520.00	1495.00	1400.00	571.68	576.12	582.88	2565	18.00	7.45	2415
52	1540.00	1515.00	1420.00	576.85	581.30	588.05	2576	20.00	5.17	3865
53	1564.00	1539.00	1444.00	584.53	588.98	595.74	2583	24.00	7.69	3123
54	1580.00	1555.00	1460.00	589.74	594.19	600.95	2588	16.00	5.21	3069
55	1600.00	1575.00	1480.00	596.33	600.79	607.55	2592	20.00	6.59	3033
56	1620.00	1595.00	1500.00	602.57	607.03	613.79	2599	20.00	6.24	3203
57	1640.00	1615.00	1520.00	609.09	613.56	620.31	2604	20.00	6.52	3066
58	1660.00	1635.00	1540.00	616.60	621.07	627.83	2604	20.00	7.51	2662
59	1680.00	1655.00	1560.00	622.65	627.12	633.88	2611	20.00	6.05	3304
60	1701.00	1676.00	1581.00	629.86	634.34	641.09	2614	21.00	7.21	2911
61	1723.00	1698.00	1603.00	637.09	641.57	648.33	2619	22.00	7.23	3041
62	1745.00	1720.00	1625.00	645.69	650.17	656.93	2618	22.00	8.60	2557
63	1770.00	1745.00	1650.00	653.29	657.78	664.54	2626	25.00	7.60	3288
64	1801.00	1776.00	1681.00	663.00	667.49	674.25	2634	31.00	9.72	3191
65	1817.00	1792.00	1697.00	667.91	672.41	679.16	2639	16.00	4.91	3257
66	1835.00	1810.00	1715.00	673.33	677.83	684.59	2644	18.00	5.42	3319
67	1855.00	1830.00	1735.00	679.57	684.07	690.83	2649	20.00	6.24	3204
68	1875.00	1850.00	1755.00	685.49	689.99	696.75	2655	20.00	5.92	3377
69	1902.00	1877.00	1782.00	693.22	697.73	704.49	2664	27.00	7.73	3491
70	1915.00	1890.00	1795.00	696.81	701.32	708.08	2669	13.00	3.59	3619
71	1937.00	1912.00	1817.00	703.21	707.72	714.48	2676	22.00	6.40	3436
72	1959.00	1934.00	1839.00	709.25	713.77	720.52	2684	22.00	6.04	3641

LEVEL NUMBER	MEASUR DEPTH FROM KB M	VERTIC DEPTH FROM SRD M	VERTIC DEPTH FROM GL M	OBSERV TRAVEL TIME HYD/GEO MS	VERTIC TRAVEL TIME SRC/GEO MS	VERTIC TRAVEL TIME SRD/GEO MS	AVERAGE VELOC SRD/GEO M/S	DELTA DEPTH BETWEEN SHOTS M	DELTA TIME BETWEEN SHOTS MS	INTERV VELOC BETWEEN SHOTS M/S
								16.00	4.61	3469
73	1975.00	1950.00	1855.00	713.86	718.38	725.14	2689			
								20.00	5.40	3702
74	1995.00	1970.00	1875.00	719.26	723.78	730.54	2697			
								22.00	5.91	3721
75	2017.00	1992.00	1897.00	725.17	729.69	736.45	2705			
								18.00	4.62	3894
76	2035.00	2010.00	1915.00	729.79	734.32	741.07	2712			
								20.00	5.23	3822
77	2055.00	2030.00	1935.00	735.02	739.55	746.31	2720			
								20.00	5.84	3423
78	2075.00	2050.00	1955.00	740.86	745.39	752.15	2726			
								21.00	4.80	4372
79	2096.00	2071.00	1976.00	745.66	750.19	756.95	2736			
								19.00	5.72	3320
80	2115.00	2090.00	1995.00	751.38	755.92	762.67	2740			
								20.00	5.62	3557
81	2135.00	2110.00	2015.00	757.00	761.54	768.30	2746			
								21.00	5.62	3735
82	2156.00	2131.00	2036.00	762.62	767.16	773.92	2754			
								18.00	5.37	3351
83	2174.00	2149.00	2054.00	767.99	772.53	779.29	2758			
								21.00	5.08	4132
84	2195.00	2170.00	2075.00	773.07	777.62	784.37	2767			
								20.00	5.27	3793
85	2215.00	2190.00	2095.00	778.34	782.89	789.64	2773			
								15.00	3.90	3845
86	2230.00	2205.00	2110.00	782.24	786.79	793.55	2779			
								27.00	7.18	3759
87	2257.00	2232.00	2137.00	789.42	793.97	800.73	2787			
								26.00	6.81	3816
88	2283.00	2258.00	2163.00	796.23	800.78	807.54	2796			
								7.00	2.04	3430
89	2290.00	2265.00	2170.00	798.27	802.83	809.58	2798			
								20.00	5.19	3852
90	2310.00	2285.00	2190.00	803.46	808.02	814.77	2804			
								25.00	6.41	3899
91	2335.00	2310.00	2215.00	809.87	814.43	821.19	2813			
								20.00	5.16	3875
92	2355.00	2330.00	2235.00	815.03	819.59	826.35	2820			
								20.00	5.17	3867
93	2375.00	2350.00	2255.00	820.20	824.76	831.52	2826			
								17.00	3.94	4313
94	2392.00	2367.00	2272.00	824.14	828.71	835.46	2833			
								21.00	6.98	3008
95	2413.00	2388.00	2293.00	831.12	835.69	842.44	2835			
								22.00	5.08	4329
96	2435.00	2410.00	2315.00	836.20	840.77	847.53	2844			

LEVEL NUMBER	MEASUR DEPTH FROM KB M	VERTIC DEPTH FROM SRD M	VERTIC DEPTH FROM GL M	OBSERV TRAVEL TIME HYD/GEO MS	VERTIC TRAVEL TIME SRC/GEO MS	VERTIC TRAVEL TIME SRD/GEO MS	AVERAGE VELOC SRD/GEO M/S	DELTA DEPTH BETWEEN SHOTS M	DELTA TIME BETWEEN SHOTS MS	INTERV VELOC BETWEEN SHOTS M/S
								20.00	6.19	3230
97	2455.00	2430.00	2335.00	842.39	846.96	853.72	2846	22.00	4.39	5009
98	2477.00	2452.00	2357.00	846.78	851.35	858.11	2857	24.00	5.97	4019
99	2501.00	2476.00	2381.00	852.75	857.32	864.08	2865	14.00	3.23	4333
100	2515.00	2490.00	2395.00	855.98	860.56	867.31	2871	18.00	4.53	3972
101	2533.00	2508.00	2413.00	860.51	865.09	871.84	2877	22.00	5.82	3779
102	2555.00	2530.00	2435.00	866.33	870.91	877.67	2883	25.00	6.13	4077
103	2580.00	2555.00	2460.00	872.46	877.04	883.80	2891	15.00	3.94	3806
104	2595.00	2570.00	2475.00	876.40	880.98	887.74	2895	19.00	4.65	4085
105	2614.00	2589.00	2494.00	881.05	885.63	892.39	2901	20.00	5.59	3577
106	2634.00	2609.00	2514.00	886.64	891.22	897.98	2905	21.00	5.27	3984
107	2655.00	2630.00	2535.00	891.91	896.50	903.25	2912	20.00	5.03	3975
108	2675.00	2650.00	2555.00	896.94	901.53	908.28	2918	15.00	3.91	3835
109	2690.00	2665.00	2570.00	900.85	905.44	912.19	2922	25.00	5.28	4733
110	2715.00	2690.00	2595.00	906.13	910.72	917.48	2932	19.00	4.90	3877
111	2734.00	2709.00	2614.00	911.03	915.62	922.38	2937			

DRIFT

ANALYST: Z.KATELIS 23-JUN-93 15:43:08 PROGRAM: GADJST 008.E08



SONIC ADJUSTMENT PARAMETER REPORT

COMPANY : BHP PETROLEUM

WELL : LA BELLA-1

FIELD : WILDCAT

COUNTRY : AUSTRALIA

REFERENCE: SYJ-560875

LONG DEFINITIONS

GLOBAL

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

ZONE

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

SAMPLED

SHOT - Shot number
VDKB - Vertical Depth Relative to KB
DSRD - Depth from SRD
DGL - Vertical Depth Relative to Ground Level (User's Reference)
KNEE - Knee
BLSH - Block Shift between Shots or Knee
DTMI - Value of Delta-T Minimum used
COEF - Delta-T MIN Coefficient used in the Drift Zone
DRGR - Gradient of Drift Curve

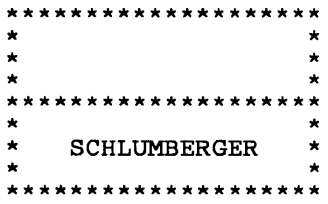
(GLOBAL PARAMETERS)		(VALUE)		
ORIG OF ADJ DATA (WST)	SRCDRF	: 2.00000		
CONS SONIC ADJST (WST)	CONADJ	: 24.6063	US/M	
UNIFORM EARTH VELOCITY	UNERTH	: 1480.00	M/S	

(ZONED PARAMETERS)		(VALUE)		(LIMITS)	
USER DRIFT ZONE (WST)	ZDRIFT	: 23.20000	MS	2734.00	- 2055.00
		21.17000		2055.00	1807.30
		19.10000		1807.30	1557.00
		13.80000		1557.00	1140.00
		12.20000		1140.00	900.000
		8.200000		900.000	620.000
		0		620.000	0
ADJUSMNT MODE (WST)	ADJOPZ	:-999.2500		30479.7	- 0
USER DELTA-T MIN (WST)	ADJUSZ	:-999.2500	US/M	30479.7	- 0
LAYER OPTION FLAG VELOC	LOFVEL	: 1.000000		30479.7	- 0
USER VELOC (WST)	LAYVEL	: 2664.000	M/S	620.000	- 600.000
		2561.000		600.000	550.000
		2726.000		550.000	500.000
		2354.000		500.000	450.000
		2632.000		450.000	400.000
		2444.000		400.000	350.000
		2420.000		350.000	300.000
		2124.000		300.000	250.000
		2029.000		250.000	200.000

2223.000	200.000	120.000
1480.000	120.000	0

KNEE NUMBER	VERTICAL DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	VERTICAL DEPTH FROM GL M	DRIFT AT KNEE MS	BLOCKSHIFT USED US/M	DELTA-T MINIMUM USED US/M	REDUCTION FACTOR G	EQUIVALENT BLOCKSHIFT US/M
					0			0
2	620.00	595.00	500.00	0	29.29			29.29
3	900.00	875.00	780.00	8.20	16.67			16.67
4	1140.00	1115.00	1020.00	12.20	3.84			3.84
5	1557.00	1532.00	1437.00	13.80	21.17			21.17
6	1807.30	1782.30	1687.30	19.10	8.36			8.36
7	2055.00	2030.00	1935.00	21.17	2.99			2.99
8	2734.00	2709.00	2614.00	23.20				

ANALYST: Z.KATELIS 23-JUN-93 15:43:21 PROGRAM: GADJST 008.E08



VELOCITY REPORT

COMPANY : BHP PETROLEUM

WELL : LA BELLA-1

FIELD : WILDCAT

COUNTRY : AUSTRALIA

REFERENCE: SYJ-560875

LONG DEFINITIONS

GLOBAL

KB - Elevation of the KELLY-BUSHING Above MSL or MWL
SRD - Elevation of the Seismic Reference Datum Above MSL or MWL
EKB - Elevation of Kelly Bushing
GL - Elevation of Users Reference (Generally Ground Level) Above SRD
UNERTH - UNIFORM EARTH VELOCITY (GTRFRM)

ZONE

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

SAMPLED

SHOT - Shot number
DKB - Measured Depth from Kelly-Bushing
DSRD - Depth from SRD
DGL - Vertical Depth Relative to Ground Level (User's Reference)
SHTM - Shot time (WST)
ADJS - Adjusted Sonic Travel Time
SHDR - Drift at Shot or Knee
REST - Residual Travel Time at Knee
INTV - Internal Velocity, Average

(GLOBAL PARAMETERS)		(VALUE)	
ELEV OF KB AB. MSL (WST)	KB	25.0000	M
ELEV OF SRD AB. MSL(WST)	SRD	0	M
Elevation of Kelly Bushi	EKB	25.0000	M
ELEV OF GL AB. SRD(WST)	GL	-95.0000	M
UNIFORM EARTH VELOCITY	UNERTH	1480.00	M/S

(ZONED PARAMETERS)		(VALUE)		(LIMITS)
LAYER OPTION FLAG VELOC	LOFVEL	1.000000		30479.7 - 0
USER VELOC (WST)	LAYVEL	2664.000	M/S	620.000 - 600.000
		2561.000		600.000 - 550.000
		2726.000		550.000 - 500.000
		2354.000		500.000 - 450.000
		2632.000		450.000 - 400.000
		2444.000		400.000 - 350.000
		2420.000		350.000 - 300.000
		2124.000		300.000 - 250.000
		2029.000		250.000 - 200.000
		2223.000		200.000 - 120.000
		1480.000		120.000 - 0

LEVEL NUMBER	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	VERTICAL DEPTH FROM GL M	VERTICAL TRAVEL TIME SRD/GEOPH MS	INTEGRATED ADJUSTED SONIC TIME MS	DRIFT = SHOT TIME - RAW SON MS	RESIDUAL = SHOT TIME - ADJ SON MS	ADJUSTED INTERVAL VELOCITY M/S
								1480
1	120.00	95.00	0	64.19	64.19	0	0	
								2223
2	200.00	175.00	80.00	100.18	100.18	0	0	
								2029
3	250.00	225.00	130.00	124.82	124.82	0	0	
								2125
4	300.00	275.00	180.00	148.36	148.35	0	0	
								2420
5	350.00	325.00	230.00	169.02	169.02	0	0	
								2444
6	400.00	375.00	280.00	189.48	189.47	0	.01	
								2631
7	450.00	425.00	330.00	208.48	208.48	0	0	
								2354
8	500.00	475.00	380.00	229.72	229.71	0	.01	
								2725
9	550.00	525.00	430.00	248.06	248.06	0	.01	
								2562
10	600.00	575.00	480.00	267.59	267.58	0	.01	
								2659
11	620.12	595.12	500.12	275.14	275.14	0	0	
								2746
12	640.00	615.00	520.00	282.62	282.38	.80	.23	
								2763
13	690.00	665.00	570.00	300.64	300.48	2.20	.16	
								2807
14	740.00	715.00	620.00	318.28	318.29	3.49	-.01	
								2719
15	780.00	755.00	660.00	332.83	333.00	4.49	-.17	
								2811
16	800.00	775.00	680.00	339.72	340.12	4.84	-.40	
								2629
17	820.00	795.00	700.00	347.38	347.72	5.50	-.35	
								2804
18	840.00	815.00	720.00	354.51	354.86	6.08	-.34	
								2800
19	861.00	836.00	741.00	362.18	362.36	6.87	-.17	
								2741
20	880.00	855.00	760.00	368.89	369.29	7.20	-.40	
								2861
21	900.00	875.00	780.00	376.24	376.28	8.16	-.04	
								2637
22	920.00	895.00	800.00	383.42	383.86	8.08	-.45	
								2667
23	940.00	915.00	820.00	391.47	391.36	8.97	.11	
								2590
24	960.00	935.00	840.00	398.46	399.08	8.57	-.62	

LEVEL NUMBER	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	VERTICAL DEPTH FROM GL M	VERTICAL TRAVEL TIME SRD/GEOPH MS	INTEGRATED ADJUSTED SONIC TIME MS	DRIFT = SHOT TIME - RAW SON MS	RESIDUAL = SHOT TIME - ADJ SON MS	ADJUSTED INTERVAL VELOCITY M/S
								2514
25	980.00	955.00	860.00	406.76	407.04	9.25	-.28	
								2516
26	1000.00	975.00	880.00	415.19	414.99	10.07	.21	
								2549
27	1020.00	995.00	900.00	422.60	422.83	9.96	-.23	
								2527
28	1040.00	1015.00	920.00	430.60	430.75	10.38	-.15	
								2683
29	1060.00	1035.00	940.00	437.81	438.20	10.46	-.39	
								2874
30	1080.00	1055.00	960.00	445.03	445.16	11.06	-.13	
								2983
31	1100.00	1075.00	980.00	451.58	451.87	11.24	-.28	
								2997
32	1120.00	1095.00	1000.00	458.49	458.54	11.81	-.05	
								2892
33	1140.00	1115.00	1020.00	465.45	465.45	12.18	0	
								3174
34	1160.00	1135.00	1040.00	471.87	471.76	12.37	.12	
								3091
35	1180.00	1155.00	1060.00	478.48	478.23	12.59	.25	
								3250
36	1203.00	1178.00	1083.00	486.36	485.30	13.48	1.06	
								2884
37	1220.00	1195.00	1100.00	492.09	491.20	13.39	.90	
								2810
38	1240.00	1215.00	1120.00	498.91	498.32	13.17	.60	
								2903
39	1260.00	1235.00	1140.00	505.50	505.21	12.94	.29	
								3042
40	1280.00	1255.00	1160.00	512.90	511.78	13.83	1.11	
								3294
41	1300.00	1275.00	1180.00	518.08	517.85	13.02	.23	
								3358
42	1322.00	1297.00	1202.00	524.23	524.41	12.71	-.17	
								3642
43	1340.00	1315.00	1220.00	528.96	529.35	12.56	-.39	
								3434
44	1360.00	1335.00	1240.00	534.34	535.17	12.19	-.83	
								3911
45	1380.00	1355.00	1260.00	539.15	540.29	11.96	-1.13	
								3810
46	1405.00	1380.00	1285.00	546.51	546.85	12.86	-.34	
								3208
47	1420.00	1395.00	1300.00	551.39	551.52	13.13	-.13	
								3425
48	1440.00	1415.00	1320.00	556.70	557.36	12.66	-.66	

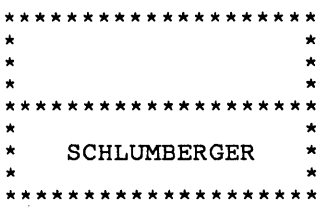
LEVEL NUMBER	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	VERTICAL DEPTH FROM GL M	VERTICAL TRAVEL TIME SRD/GEOPH MS	INTEGRATED ADJUSTED SONIC TIME MS	DRIFT = SHOT TIME - RAW SON MS	RESIDUAL = SHOT TIME - ADJ SON MS	ADJUSTED INTERVAL VELOCITY M/S
								3304
49	1460.00	1435.00	1340.00	563.91	563.41	13.91	.50	
								3289
50	1480.00	1455.00	1360.00	569.62	569.50	13.60	.12	
								3347
51	1502.00	1477.00	1382.00	575.42	576.07	12.93	-.64	
								3196
52	1520.00	1495.00	1400.00	582.88	581.70	14.82	1.18	
								3210
53	1540.00	1515.00	1420.00	588.05	587.93	13.84	.12	
								3066
54	1564.00	1539.00	1444.00	595.74	595.76	13.91	-.02	
								2925
55	1580.00	1555.00	1460.00	600.95	601.23	13.99	-.28	
								3088
56	1600.00	1575.00	1480.00	607.55	607.70	14.53	-.16	
								3117
57	1620.00	1595.00	1500.00	613.79	614.12	14.78	-.33	
								2924
58	1640.00	1615.00	1520.00	620.31	620.96	14.89	-.65	
								2834
59	1660.00	1635.00	1540.00	627.83	628.02	15.78	-.19	
								2936
60	1680.00	1655.00	1560.00	633.88	634.83	15.44	-.95	
								2907
61	1701.00	1676.00	1581.00	641.09	642.05	15.87	-.96	
								3092
62	1723.00	1698.00	1603.00	648.33	649.17	16.46	-.84	
								3152
63	1745.00	1720.00	1625.00	656.93	656.15	18.54	.78	
								3104
64	1770.00	1745.00	1650.00	664.54	664.21	18.62	.33	
								3111
65	1801.00	1776.00	1681.00	674.25	674.17	19.03	.08	
								3215
66	1817.00	1792.00	1697.00	679.16	679.15	19.18	.01	
								3334
67	1835.00	1810.00	1715.00	684.59	684.55	19.35	.04	
								3243
68	1855.00	1830.00	1735.00	690.83	690.71	19.59	.11	
								3436
69	1875.00	1850.00	1755.00	696.75	696.53	19.86	.22	
								3503
70	1902.00	1877.00	1782.00	704.49	704.24	20.11	.24	
								3496
71	1915.00	1890.00	1795.00	708.08	707.96	20.10	.12	
								3515
72	1937.00	1912.00	1817.00	714.48	714.22	20.42	.26	

LEVEL NUMBER	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	VERTICAL DEPTH FROM GL M	VERTICAL TRAVEL TIME SRD/GEOPH MS	INTEGRATED ADJUSTED SONIC TIME MS	DRIFT = SHOT TIME - RAW SON MS	RESIDUAL = SHOT TIME - ADJ SON MS	ADJUSTED INTERVAL VELOCITY M/S
								3565
73	1959.00	1934.00	1839.00	720.52	720.39	20.48	.13	
								3596
74	1975.00	1950.00	1855.00	725.14	724.84	20.77	.30	
								3636
75	1995.00	1970.00	1875.00	730.54	730.34	20.84	.20	
								3700
76	2017.00	1992.00	1897.00	736.45	736.29	20.99	.16	
								3771
77	2035.00	2010.00	1915.00	741.07	741.06	20.99	.01	
								3832
78	2055.00	2030.00	1935.00	746.31	746.28	21.17	.03	
								3730
79	2075.00	2050.00	1955.00	752.15	751.64	21.71	.51	
								3907
80	2096.00	2071.00	1976.00	756.95	757.02	21.21	-.06	
								3527
81	2115.00	2090.00	1995.00	762.67	762.40	21.60	.27	
								3522
82	2135.00	2110.00	2015.00	768.30	768.08	21.61	.21	
								3746
83	2156.00	2131.00	2036.00	773.92	773.69	21.68	.23	
								3498
84	2174.00	2149.00	2054.00	779.29	778.83	21.96	.46	
								3744
85	2195.00	2170.00	2075.00	784.37	784.44	21.49	-.07	
								3821
86	2215.00	2190.00	2095.00	789.64	789.68	21.59	-.03	
								3973
87	2230.00	2205.00	2110.00	793.55	793.45	21.76	.09	
								3781
88	2257.00	2232.00	2137.00	800.73	800.59	21.88	.13	
								3974
89	2283.00	2258.00	2163.00	807.54	807.14	22.23	.40	
								3826
90	2290.00	2265.00	2170.00	809.58	808.97	22.46	.62	
								3702
91	2310.00	2285.00	2190.00	814.77	814.37	22.31	.41	
								3795
92	2335.00	2310.00	2215.00	821.19	820.96	22.21	.23	
								3691
93	2355.00	2330.00	2235.00	826.35	826.38	22.02	-.03	
								3706
94	2375.00	2350.00	2255.00	831.52	831.77	21.85	-.25	
								3769
95	2392.00	2367.00	2272.00	835.46	836.28	21.33	-.82	
								3856
96	2413.00	2388.00	2293.00	842.44	841.73	22.93	.72	

LEVEL NUMBER	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	VERTICAL DEPTH FROM GL M	VERTICAL TRAVEL TIME SRD/GEOPH MS	INTEGRATED ADJUSTED SONIC TIME MS	DRIFT = SHOT TIME - RAW SON MS	RESIDUAL = SHOT TIME - ADJ SON MS	ADJUSTED INTERVAL VELOCITY M/S
								3703
97	2435.00	2410.00	2315.00	847.53	847.67	22.14	-.14	
								3861
98	2455.00	2430.00	2335.00	853.72	852.85	23.21	.87	
								3853
99	2477.00	2452.00	2357.00	858.11	858.56	21.96	-.45	
								3918
100	2501.00	2476.00	2381.00	864.08	864.68	21.88	-.60	
								4150
101	2515.00	2490.00	2395.00	867.31	868.06	21.77	-.75	
								4038
102	2533.00	2508.00	2413.00	871.84	872.52	21.90	-.67	
								4017
103	2555.00	2530.00	2435.00	877.67	877.99	22.31	-.33	
								3949
104	2580.00	2555.00	2460.00	883.80	884.32	22.19	-.52	
								3864
105	2595.00	2570.00	2475.00	887.74	888.20	22.29	-.47	
								3993
106	2614.00	2589.00	2494.00	892.39	892.96	22.24	-.57	
								4053
107	2634.00	2609.00	2514.00	897.98	897.90	22.96	.08	
								4025
108	2655.00	2630.00	2535.00	903.25	903.11	23.08	.14	
								3946
109	2675.00	2650.00	2555.00	908.28	908.18	23.10	.10	
								4035
110	2690.00	2665.00	2570.00	912.19	911.90	23.34	.30	
								4193
111	2715.00	2690.00	2595.00	917.48	917.86	22.73	-.39	
								4231
112	2734.00	2709.00	2614.00	922.38	922.35	23.20	.02	

TIME/DEPTH

ANALYST: Z.KATELIS 23-JUN-93 15:46:48 PROGRAM: GTRFRM 001.E13



TIME CONVERTED VELOCITY REPORT

COMPANY : BHP PETROLEUM

WELL : LA BELLA-1

FIELD : WILDCAT

COUNTRY : AUSTRALIA

REFERENCE: SYJ-560875

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	: -95.0000	M
UNIFORM EARTH VELOCITY	UNERTH	: 1480.00	M/S
UNIFORM DENSITY VALUE	UNFDEN	: 2.30000	G/C3

(MATRIX PARAMETERS)

	MVOUT DIST M
1	1000.0
2	1500.0
3	2000.0

(ZONED PARAMETERS)		(VALUE)		(LIMITS)
LAYER OPTION FLAG VELOC	LOFVEL	: 1.000000		30479.7 - 0
USER VELOC (WST)	LAYVEL	: 2664.000	M/S	620.000 - 600.000
		2561.000		600.000 550.000
		2726.000		550.000 500.000
		2354.000		500.000 450.000
		2632.000		450.000 400.000
		2444.000		400.000 350.000
		2420.000		350.000 300.000
		2124.000		300.000 250.000
		2029.000		250.000 200.000
		2223.000		200.000 120.000
		1480.000		120.000 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
								1480
0	25.00	0						1480
2.00	26.48	1.48	1480	1480	673.68	1011.52	1349.35	1480
4.00	27.96	2.96	1480	1480	671.69	1009.52	1347.36	1480
6.00	29.44	4.44	1480	1480	669.70	1007.53	1345.36	1480
8.00	30.92	5.92	1480	1480	667.72	1005.55	1343.38	1480
10.00	32.40	7.40	1480	1480	665.75	1003.56	1341.39	1480
12.00	33.88	8.88	1480	1480	663.78	1001.58	1339.40	1480
14.00	35.36	10.36	1480	1480	661.82	999.61	1337.42	1480
16.00	36.84	11.84	1480	1480	659.87	997.64	1335.45	1480
18.00	38.32	13.32	1480	1480	657.92	995.67	1333.47	1480
20.00	39.80	14.80	1480	1480	655.97	993.71	1331.50	1480
22.00	41.28	16.28	1480	1480	654.03	991.75	1329.53	1480
24.00	42.76	17.76	1480	1480	652.10	989.80	1327.56	1480
26.00	44.24	19.24	1480	1480	650.18	987.85	1325.60	1480
28.00	45.72	20.72	1480	1480	648.26	985.90	1323.64	1480
30.00	47.20	22.20	1480	1480	646.34	983.96	1321.68	1480
32.00	48.68	23.68	1480	1480	644.43	982.02	1319.73	1480
34.00	50.16	25.16	1480	1480	642.53	980.08	1317.78	1480
36.00	51.64	26.64	1480	1480	640.63	978.15	1315.83	1480
38.00	53.12	28.12	1480	1480	638.74	976.23	1313.89	1480
40.00	54.60	29.60	1480	1480	636.86	974.30	1311.94	1480
42.00	56.08	31.08	1480	1480	634.98	972.38	1310.00	1480
44.00	57.56	32.56	1480	1480	633.11	970.47	1308.07	1480
46.00	59.04	34.04	1480	1480	631.24	968.56	1306.13	

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
								1480
48.00	60.52	35.52	1480	1480	629.38	966.65	1304.20	1480
50.00	62.00	37.00	1480	1480	627.52	964.75	1302.28	1480
52.00	63.48	38.48	1480	1480	625.67	962.85	1300.35	1480
54.00	64.96	39.96	1480	1480	623.83	960.95	1298.43	1480
56.00	66.44	41.44	1480	1480	621.99	959.06	1296.51	1480
58.00	67.92	42.92	1480	1480	620.16	957.17	1294.60	1480
60.00	69.40	44.40	1480	1480	618.33	955.29	1292.68	1480
62.00	70.88	45.88	1480	1480	616.51	953.41	1290.77	1480
64.00	72.36	47.36	1480	1480	614.70	951.53	1288.87	1480
66.00	73.84	48.84	1480	1480	612.89	949.66	1286.96	1480
68.00	75.32	50.32	1480	1480	611.09	947.79	1285.06	1480
70.00	76.80	51.80	1480	1480	609.29	945.93	1283.16	1480
72.00	78.28	53.28	1480	1480	607.50	944.07	1281.27	1480
74.00	79.76	54.76	1480	1480	605.72	942.21	1279.38	1480
76.00	81.24	56.24	1480	1480	603.94	940.36	1277.49	1480
78.00	82.72	57.72	1480	1480	602.16	938.51	1275.60	1480
80.00	84.20	59.20	1480	1480	600.40	936.67	1273.72	1480
82.00	85.68	60.68	1480	1480	598.63	934.83	1271.84	1480
84.00	87.16	62.16	1480	1480	596.88	932.99	1269.96	1480
86.00	88.64	63.64	1480	1480	595.13	931.16	1268.08	1480
88.00	90.12	65.12	1480	1480	593.38	929.33	1266.21	1480
90.00	91.60	66.60	1480	1480	591.64	927.50	1264.34	1480
92.00	93.08	68.08	1480	1480	589.91	925.68	1262.48	1480
94.00	94.56	69.56	1480	1480	588.18	923.86	1260.62	

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
96.00	96.04	71.04	1480	1480	586.46	922.05	1258.76	1480
98.00	97.52	72.52	1480	1480	584.75	920.24	1256.90	1480
100.00	99.00	74.00	1480	1480	583.04	918.43	1255.05	1480
102.00	100.48	75.48	1480	1480	581.33	916.63	1253.20	1480
104.00	101.96	76.96	1480	1480	579.63	914.84	1251.35	1480
106.00	103.44	78.44	1480	1480	577.94	913.04	1249.50	1480
108.00	104.92	79.92	1480	1480	576.25	911.25	1247.66	1480
110.00	106.40	81.40	1480	1480	574.57	909.47	1245.82	1480
112.00	107.88	82.88	1480	1480	572.90	907.68	1243.98	1480
114.00	109.36	84.36	1480	1480	571.23	905.90	1242.15	1480
116.00	110.84	85.84	1480	1480	569.56	904.13	1240.32	1480
118.00	112.32	87.32	1480	1480	567.90	902.36	1238.49	1480
120.00	113.80	88.80	1480	1480	566.25	900.59	1236.67	1480
122.00	115.28	90.28	1480	1480	564.60	898.83	1234.85	1480
124.00	116.76	91.76	1480	1480	562.96	897.07	1233.03	1480
126.00	118.24	93.24	1480	1480	561.32	895.32	1231.21	1480
128.00	119.72	94.72	1480	1480	559.69	893.56	1229.40	2110
130.00	121.83	96.83	1490	1492	552.86	883.93	1217.03	2223
132.00	124.05	99.05	1501	1505	545.25	873.09	1203.06	2223
134.00	126.28	101.28	1512	1519	537.98	862.77	1189.77	2223
136.00	128.50	103.50	1522	1531	531.03	852.93	1177.10	2223
138.00	130.72	105.72	1532	1544	524.38	843.52	1165.02	2223
140.00	132.94	107.94	1542	1555	518.00	834.51	1153.46	2223
142.00	135.17	110.17	1552	1567	511.87	825.87	1142.40	

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
								2223
144.00	137.39	112.39	1561	1578	505.97	817.57	1131.79	
								2223
146.00	139.61	114.61	1570	1588	500.29	809.60	1121.61	
								2223
148.00	141.84	116.84	1579	1599	494.82	801.92	1111.82	
								2223
150.00	144.06	119.06	1587	1609	489.53	794.52	1102.40	
								2223
152.00	146.28	121.28	1596	1618	484.42	787.38	1093.32	
								2223
154.00	148.50	123.50	1604	1627	479.48	780.49	1084.56	
								2223
156.00	150.73	125.73	1612	1636	474.69	773.82	1076.10	
								2223
158.00	152.95	127.95	1620	1645	470.05	767.36	1067.92	
								2223
160.00	155.17	130.17	1627	1654	465.54	761.11	1060.01	
								2223
162.00	157.40	132.40	1635	1662	461.17	755.04	1052.34	
								2223
164.00	159.62	134.62	1642	1670	456.92	749.15	1044.92	
								2223
166.00	161.84	136.84	1649	1678	452.79	743.43	1037.71	
								2223
168.00	164.06	139.06	1656	1685	448.76	737.87	1030.71	
								2223
170.00	166.29	141.29	1662	1692	444.84	732.47	1023.91	
								2223
172.00	168.51	143.51	1669	1700	441.02	727.20	1017.30	
								2223
174.00	170.73	145.73	1675	1706	437.30	722.07	1010.86	
								2223
176.00	172.96	147.96	1681	1713	433.66	717.07	1004.60	
								2223
178.00	175.18	150.18	1687	1720	430.11	712.19	998.49	
								2223
180.00	177.40	152.40	1693	1726	426.64	707.43	992.54	
								2223
182.00	179.63	154.62	1699	1732	423.25	702.77	986.73	
								2223
184.00	181.85	156.85	1705	1738	419.93	698.23	981.06	
								2223
186.00	184.07	159.07	1710	1744	416.68	693.78	975.52	
								2223
188.00	186.29	161.29	1716	1750	413.51	689.43	970.10	
								2223
190.00	188.52	163.52	1721	1756	410.39	685.18	964.81	

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
192.00	190.74	165.74	1726	1761	407.34	681.01	959.63	2223
194.00	192.96	167.96	1732	1767	404.35	676.93	954.56	2223
196.00	195.19	170.19	1737	1772	401.42	672.92	949.60	2223
198.00	197.41	172.41	1741	1777	398.54	669.00	944.73	2223
200.00	199.63	174.63	1746	1782	395.72	665.15	939.97	2223
202.00	201.69	176.69	1749	1785	393.52	662.27	936.50	2058
204.00	203.72	178.72	1752	1788	391.45	659.57	933.28	2029
206.00	205.75	180.75	1755	1790	389.41	656.90	930.10	2029
208.00	207.78	182.78	1757	1793	387.39	654.27	926.96	2029
210.00	209.81	184.81	1760	1795	385.39	651.67	923.86	2029
212.00	211.84	186.84	1763	1797	383.41	649.10	920.80	2029
214.00	213.86	188.86	1765	1800	381.46	646.55	917.78	2029
216.00	215.89	190.89	1768	1802	379.54	644.04	914.79	2029
218.00	217.92	192.92	1770	1804	377.63	641.55	911.83	2029
220.00	219.95	194.95	1772	1806	375.74	639.10	908.91	2029
222.00	221.98	196.98	1775	1808	373.88	636.66	906.02	2029
224.00	224.01	199.01	1777	1810	372.03	634.26	903.16	2029
226.00	226.04	201.04	1779	1813	370.21	631.88	900.34	2029
228.00	228.07	203.07	1781	1815	368.40	629.52	897.54	2029
230.00	230.10	205.10	1783	1817	366.62	627.19	894.77	2029
232.00	232.13	207.13	1786	1818	364.85	624.88	892.03	2029
234.00	234.16	209.16	1788	1820	363.10	622.59	889.32	2029
236.00	236.19	211.19	1790	1822	361.37	620.33	886.64	2029
238.00	238.22	213.22	1792	1824	359.65	618.08	883.98	

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
240.00	240.25	215.25	1794	1826	357.96	615.86	881.34	2029
242.00	242.28	217.28	1796	1828	356.28	613.66	878.74	2029
244.00	244.31	219.31	1798	1829	354.61	611.47	876.15	2029
246.00	246.33	221.33	1799	1831	352.96	609.31	873.59	2029
248.00	248.36	223.36	1801	1833	351.33	607.17	871.05	2050
250.00	250.41	225.41	1803	1835	349.66	604.96	868.43	2124
252.00	252.54	227.54	1806	1837	347.83	602.50	865.44	2124
254.00	254.66	229.66	1808	1840	346.02	600.06	862.49	2124
256.00	256.79	231.79	1811	1842	344.23	597.64	859.57	2124
258.00	258.91	233.91	1813	1844	342.46	595.25	856.69	2124
260.00	261.04	236.04	1816	1847	340.71	592.89	853.83	2124
262.00	263.16	238.16	1818	1849	338.98	590.55	851.00	2124
264.00	265.28	240.28	1820	1851	337.27	588.23	848.20	2124
266.00	267.41	242.41	1823	1853	335.57	585.94	845.43	2124
268.00	269.53	244.53	1825	1856	333.89	583.67	842.69	2124
270.00	271.66	246.66	1827	1858	332.23	581.42	839.97	2124
272.00	273.78	248.78	1829	1860	330.59	579.19	837.28	2124
274.00	275.91	250.91	1831	1862	328.96	576.99	834.62	2124
276.00	278.03	253.03	1834	1864	327.35	574.80	831.98	2124
278.00	280.15	255.15	1836	1866	325.76	572.63	829.36	2124
280.00	282.28	257.28	1838	1868	324.18	570.49	826.77	2124
282.00	284.40	259.40	1840	1870	322.62	568.36	824.20	2124
284.00	286.53	261.53	1842	1872	321.07	566.25	821.66	2124
286.00	288.65	263.65	1844	1874	319.54	564.17	819.14	

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
288.00	290.77	265.77	1846	1875	318.02	562.10	816.64	2124
290.00	292.90	267.90	1848	1877	316.52	560.04	814.16	2124
292.00	295.02	270.02	1849	1879	315.03	558.01	811.70	2124
294.00	297.15	272.15	1851	1881	313.55	555.99	809.26	2124
296.00	299.27	274.27	1853	1883	312.09	553.99	806.84	2124
298.00	301.60	276.60	1856	1886	310.25	551.36	803.57	2328
300.00	304.02	279.02	1860	1890	308.24	548.47	799.92	2420
302.00	306.44	281.44	1864	1894	306.26	545.61	796.32	2420
304.00	308.86	283.86	1867	1898	304.31	542.80	792.77	2420
306.00	311.28	286.28	1871	1902	302.38	540.02	789.26	2420
308.00	313.70	288.70	1875	1906	300.48	537.27	785.80	2420
310.00	316.12	291.12	1878	1909	298.61	534.56	782.38	2420
312.00	318.54	293.54	1882	1913	296.76	531.88	779.01	2420
314.00	320.96	295.96	1885	1917	294.93	529.23	775.68	2420
316.00	323.38	298.38	1888	1920	293.13	526.62	772.38	2420
318.00	325.80	300.80	1892	1924	291.35	524.04	769.13	2420
320.00	328.22	303.22	1895	1927	289.59	521.49	765.91	2420
322.00	330.64	305.64	1898	1931	287.86	518.97	762.74	2420
324.00	333.06	308.06	1902	1934	286.15	516.48	759.60	2420
326.00	335.48	310.48	1905	1938	284.45	514.02	756.49	2420
328.00	337.90	312.90	1908	1941	282.78	511.58	753.42	2420
330.00	340.31	315.31	1911	1944	281.13	509.17	750.39	2420
332.00	342.73	317.73	1914	1947	279.50	506.79	747.38	2420
334.00	345.15	320.15	1917	1950	277.89	504.44	744.41	

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								2420
336.00	347.57	322.57	1920	1954	276.30	502.11	741.47	
								2421
338.00	349.99	324.99	1923	1957	274.72	499.80	738.56	
								2444
340.00	352.44	327.44	1926	1960	273.13	497.46	735.60	
								2444
342.00	354.88	329.88	1929	1963	271.56	495.14	732.67	
								2444
344.00	357.33	332.33	1932	1966	270.00	492.85	729.77	
								2444
346.00	359.77	334.77	1935	1969	268.46	490.58	726.89	
								2444
348.00	362.21	337.21	1938	1972	266.94	488.34	724.05	
								2444
350.00	364.66	339.66	1941	1975	265.44	486.12	721.24	
								2444
352.00	367.10	342.10	1944	1978	263.95	483.92	718.46	
								2444
354.00	369.55	344.55	1947	1981	262.48	481.75	715.70	
								2444
356.00	371.99	346.99	1949	1984	261.03	479.59	712.97	
								2444
358.00	374.44	349.44	1952	1987	259.60	477.46	710.27	
								2444
360.00	376.88	351.88	1955	1990	258.18	475.35	707.60	
								2444
362.00	379.32	354.32	1958	1993	256.77	473.27	704.95	
								2444
364.00	381.77	356.77	1960	1995	255.38	471.20	702.32	
								2444
366.00	384.21	359.21	1963	1998	254.01	469.15	699.72	
								2444
368.00	386.66	361.66	1966	2001	252.65	467.12	697.15	
								2444
370.00	389.10	364.10	1968	2004	251.30	465.11	694.60	
								2444
372.00	391.54	366.54	1971	2006	249.97	463.12	692.07	
								2444
374.00	393.99	368.99	1973	2009	248.65	461.15	689.56	
								2444
376.00	396.43	371.43	1976	2011	247.35	459.20	687.08	
								2444
378.00	398.88	373.88	1978	2014	246.06	457.26	684.62	
								2553
380.00	401.43	376.43	1981	2017	244.65	455.11	681.86	
								2632
382.00	404.06	379.06	1985	2021	243.15	452.81	678.88	

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
384.00	406.69	381.69	1988	2024	241.66	450.54	675.93	2632
386.00	409.32	384.32	1991	2028	240.20	448.29	673.02	2632
388.00	411.96	386.96	1995	2032	238.75	446.07	670.14	2632
390.00	414.59	389.59	1998	2035	237.33	443.87	667.28	2632
392.00	417.22	392.22	2001	2039	235.91	441.69	664.46	2632
394.00	419.85	394.85	2004	2042	234.52	439.54	661.67	2632
396.00	422.48	397.48	2007	2045	233.14	437.41	658.91	2632
398.00	425.11	400.11	2011	2049	231.78	435.30	656.17	2632
400.00	427.75	402.75	2014	2052	230.43	433.22	653.47	2632
402.00	430.38	405.38	2017	2055	229.10	431.16	650.79	2632
404.00	433.01	408.01	2020	2059	227.79	429.12	648.13	2632
406.00	435.64	410.64	2023	2062	226.49	427.10	645.51	2632
408.00	438.27	413.27	2026	2065	225.20	425.10	642.90	2632
410.00	440.90	415.90	2029	2068	223.93	423.12	640.33	2632
412.00	443.54	418.54	2032	2071	222.68	421.16	637.78	2632
414.00	446.17	421.17	2035	2074	221.44	419.22	635.25	2632
416.00	448.80	423.80	2037	2077	220.21	417.30	632.75	2469
418.00	451.27	426.27	2040	2080	219.16	415.68	630.67	2354
420.00	453.62	428.62	2041	2081	218.23	414.27	628.88	2354
422.00	455.98	430.98	2043	2082	217.31	412.87	627.10	2354
424.00	458.33	433.33	2044	2084	216.40	411.48	625.33	2354
426.00	460.68	435.68	2045	2085	215.49	410.09	623.57	2354
428.00	463.04	438.04	2047	2086	214.59	408.72	621.83	2354
430.00	465.39	440.39	2048	2088	213.70	407.35	620.09	

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
								2354
432.00	467.74	442.74	2050	2089	212.81	405.99	618.36	
								2354
434.00	470.10	445.10	2051	2090	211.93	404.65	616.65	
								2354
436.00	472.45	447.45	2053	2092	211.06	403.31	614.94	
								2354
438.00	474.81	449.81	2054	2093	210.20	401.97	613.24	
								2354
440.00	477.16	452.16	2055	2094	209.34	400.65	611.56	
								2354
442.00	479.51	454.51	2057	2095	208.49	399.34	609.88	
								2354
444.00	481.87	456.87	2058	2097	207.64	398.03	608.21	
								2354
446.00	484.22	459.22	2059	2098	206.80	396.73	606.55	
								2354
448.00	486.57	461.57	2061	2099	205.97	395.44	604.90	
								2354
450.00	488.93	463.93	2062	2100	205.15	394.16	603.26	
								2354
452.00	491.28	466.28	2063	2101	204.33	392.89	601.63	
								2354
454.00	493.63	468.63	2064	2103	203.51	391.62	600.01	
								2354
456.00	495.99	470.99	2066	2104	202.70	390.37	598.40	
								2354
458.00	498.34	473.34	2067	2105	201.90	389.12	596.79	
								2483
460.00	500.82	475.82	2069	2107	201.00	387.69	594.94	
								2726
462.00	503.55	478.55	2072	2110	199.90	385.91	592.57	
								2726
464.00	506.28	481.28	2074	2113	198.81	384.14	590.22	
								2726
466.00	509.00	484.00	2077	2116	197.73	382.39	587.89	
								2726
468.00	511.73	486.73	2080	2119	196.67	380.66	585.59	
								2726
470.00	514.45	489.45	2083	2122	195.61	378.95	583.30	
								2726
472.00	517.18	492.18	2086	2125	194.57	377.25	581.04	
								2726
474.00	519.91	494.91	2088	2128	193.53	375.56	578.79	
								2726
476.00	522.63	497.63	2091	2130	192.51	373.89	576.57	
								2726
478.00	525.36	500.36	2094	2133	191.50	372.24	574.36	

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
480.00	528.08	503.08	2096	2136	190.50	370.60	572.17	2726
482.00	530.81	505.81	2099	2139	189.51	368.98	570.00	2726
484.00	533.53	508.53	2101	2142	188.53	367.37	567.85	2726
486.00	536.26	511.26	2104	2144	187.55	365.78	565.72	2726
488.00	538.99	513.99	2106	2147	186.59	364.20	563.61	2726
490.00	541.71	516.71	2109	2150	185.64	362.63	561.51	2726
492.00	544.44	519.44	2112	2152	184.70	361.08	559.43	2726
494.00	547.16	522.16	2114	2155	183.77	359.54	557.36	2724
496.00	549.89	524.89	2116	2158	182.84	358.02	555.32	2561
498.00	552.45	527.45	2118	2159	182.05	356.72	553.59	2561
500.00	555.01	530.01	2120	2161	181.26	355.43	551.88	2561
502.00	557.57	532.57	2122	2163	180.48	354.14	550.18	2561
504.00	560.13	535.13	2124	2165	179.70	352.87	548.49	2561
506.00	562.69	537.69	2125	2166	178.93	351.61	546.81	2561
508.00	565.26	540.26	2127	2168	178.16	350.35	545.14	2561
510.00	567.82	542.82	2129	2170	177.41	349.11	543.48	2561
512.00	570.38	545.38	2130	2171	176.66	347.87	541.83	2561
514.00	572.94	547.94	2132	2173	175.91	346.64	540.19	2561
516.00	575.50	550.50	2134	2175	175.17	345.42	538.56	2561
518.00	578.06	553.06	2135	2176	174.44	344.21	536.94	2561
520.00	580.62	555.62	2137	2178	173.71	343.00	535.33	2561
522.00	583.18	558.18	2139	2179	172.99	341.81	533.74	2561
524.00	585.74	560.74	2140	2181	172.27	340.62	532.15	2561
526.00	588.31	563.31	2142	2183	171.56	339.44	530.57	

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
528.00	590.87	565.87	2143	2184	170.86	338.27	529.00	2561
530.00	593.43	568.43	2145	2186	170.16	337.10	527.44	2561
532.00	595.99	570.99	2147	2187	169.46	335.95	525.89	2561
534.00	598.55	573.55	2148	2189	168.77	334.80	524.35	2561
536.00	601.16	576.16	2150	2190	168.06	333.61	522.74	2611
538.00	603.82	578.82	2152	2192	167.33	332.36	521.06	2661
540.00	606.48	581.48	2154	2194	166.59	331.13	519.39	2661
542.00	609.15	584.15	2156	2196	165.87	329.91	517.73	2661
544.00	611.81	586.81	2157	2198	165.15	328.69	516.08	2661
546.00	614.47	589.47	2159	2200	164.44	327.49	514.44	2661
548.00	617.13	592.13	2161	2202	163.73	326.29	512.82	2661
550.00	619.79	594.79	2163	2204	163.03	325.10	511.20	2561
552.00	622.35	597.35	2164	2205	162.39	324.02	509.75	2978
554.00	625.33	600.33	2167	2208	161.51	322.50	507.64	2772
556.00	628.10	603.10	2169	2211	160.77	321.23	505.89	2771
558.00	630.87	605.87	2172	2213	160.03	319.96	504.15	2644
560.00	633.52	608.52	2173	2215	159.37	318.83	502.62	2589
562.00	636.11	611.11	2175	2216	158.74	317.77	501.17	2790
564.00	638.90	613.90	2177	2218	158.01	316.51	499.44	2820
566.00	641.72	616.72	2179	2221	157.27	315.23	497.67	2836
568.00	644.55	619.55	2182	2223	156.52	313.94	495.89	2833
570.00	647.38	622.38	2184	2226	155.79	312.67	494.13	2528
572.00	649.91	624.91	2185	2227	155.22	311.70	492.82	2774
574.00	652.69	627.69	2187	2229	154.53	310.51	491.17	

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
576.00	655.48	630.48	2189	2231	153.83	309.30	489.50	2794
578.00	658.35	633.35	2192	2234	153.10	308.02	487.73	2873
580.00	661.28	636.28	2194	2236	152.34	306.70	485.89	2927
582.00	664.09	639.09	2196	2239	151.66	305.51	484.24	2808
584.00	667.00	642.00	2199	2241	150.93	304.23	482.45	2908
586.00	669.79	644.79	2201	2243	150.26	303.07	480.84	2794
588.00	672.61	647.61	2203	2246	149.59	301.89	479.21	2822
590.00	675.39	650.39	2205	2248	148.94	300.77	477.64	2780
592.00	678.03	653.03	2206	2249	148.37	299.78	476.28	2636
594.00	680.85	655.85	2208	2251	147.72	298.63	474.68	2818
596.00	683.39	658.39	2209	2252	147.20	297.73	473.45	2542
598.00	686.05	661.05	2211	2254	146.63	296.74	472.08	2664
600.00	688.75	663.75	2213	2255	146.04	295.72	470.67	2699
602.00	691.32	666.32	2214	2257	145.52	294.81	469.43	2569
604.00	693.93	668.93	2215	2258	144.99	293.88	468.14	2609
606.00	696.57	671.57	2216	2259	144.45	292.93	466.83	2638
608.00	699.48	674.48	2219	2262	143.78	291.75	465.16	2915
610.00	702.37	677.37	2221	2264	143.13	290.59	463.54	2893
612.00	705.24	680.24	2223	2266	142.49	289.47	461.97	2864
614.00	707.93	682.93	2225	2268	141.94	288.50	460.62	2696
616.00	711.04	686.04	2227	2271	141.20	287.18	458.74	3108
618.00	714.30	689.30	2231	2275	140.40	285.72	456.66	3255
620.00	717.39	692.39	2234	2278	139.68	284.44	454.83	3088
622.00	720.07	695.07	2235	2279	139.16	283.51	453.54	2683

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
624.00	722.82	697.82	2237	2281	138.61	282.54	452.17	2754
626.00	725.42	700.42	2238	2282	138.13	281.69	451.00	2597
628.00	728.01	703.01	2239	2283	137.65	280.85	449.84	2589
630.00	730.67	705.67	2240	2284	137.15	279.97	448.60	2661
632.00	733.57	708.57	2242	2287	136.55	278.89	447.08	2904
634.00	736.36	711.36	2244	2288	136.00	277.92	445.70	2790
636.00	739.15	714.15	2246	2290	135.46	276.95	444.34	2791
638.00	741.96	716.96	2248	2292	134.92	275.98	442.97	2804
640.00	744.65	719.65	2249	2293	134.43	275.10	441.73	2691
642.00	747.45	722.45	2251	2295	133.89	274.14	440.38	2803
644.00	750.11	725.11	2252	2296	133.42	273.30	439.20	2654
646.00	752.65	727.65	2253	2297	132.99	272.54	438.15	2540
648.00	755.31	730.31	2254	2298	132.52	271.70	436.97	2665
650.00	758.02	733.02	2255	2300	132.04	270.84	435.75	2707
652.00	760.63	735.63	2257	2301	131.60	270.05	434.63	2614
654.00	763.30	738.30	2258	2302	131.13	269.22	433.47	2667
656.00	765.87	740.87	2259	2303	130.71	268.46	432.41	2572
658.00	768.69	743.69	2260	2305	130.20	267.54	431.09	2820
660.00	771.68	746.68	2263	2307	129.62	266.49	429.59	2992
662.00	774.27	749.27	2264	2308	129.20	265.74	428.54	2583
664.00	777.04	752.04	2265	2309	128.72	264.86	427.29	2771
666.00	780.04	755.04	2267	2312	128.15	263.83	425.80	3002
668.00	782.79	757.79	2269	2313	127.68	262.98	424.60	2753
670.00	785.51	760.51	2270	2314	127.23	262.16	423.44	2713

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
672.00	788.12	763.12	2271	2315	126.82	261.41	422.38	2614
674.00	791.16	766.16	2273	2318	126.25	260.37	420.88	3039
676.00	793.99	768.99	2275	2320	125.77	259.49	419.63	2829
678.00	796.76	771.76	2277	2321	125.31	258.66	418.43	2777
680.00	799.61	774.61	2278	2323	124.83	257.78	417.17	2844
682.00	802.62	777.62	2280	2325	124.29	256.79	415.74	3009
684.00	805.51	780.51	2282	2327	123.80	255.89	414.45	2892
686.00	808.33	783.33	2284	2329	123.34	255.04	413.23	2824
688.00	810.80	785.80	2284	2329	122.99	254.42	412.36	2468
690.00	813.16	788.16	2285	2329	122.68	253.86	411.58	2363
692.00	815.48	790.48	2285	2329	122.38	253.33	410.85	2316
694.00	818.09	793.09	2286	2330	122.00	252.64	409.85	2612
696.00	820.74	795.74	2287	2331	121.60	251.92	408.83	2647
698.00	823.48	798.48	2288	2332	121.18	251.15	407.73	2741
700.00	826.10	801.10	2289	2333	120.81	250.46	406.75	2618
702.00	829.14	804.14	2291	2335	120.29	249.50	405.35	3044
704.00	832.02	807.02	2293	2337	119.84	248.66	404.14	2873
706.00	834.55	809.55	2293	2338	119.49	248.03	403.24	2534
708.00	837.59	812.59	2295	2340	118.99	247.10	401.88	3036
710.00	840.54	815.54	2297	2342	118.52	246.22	400.61	2955
712.00	843.40	818.40	2299	2343	118.08	245.41	399.44	2855
714.00	846.24	821.24	2300	2345	117.65	244.62	398.29	2846
716.00	848.93	823.93	2301	2346	117.27	243.92	397.29	2689
718.00	851.45	826.45	2302	2347	116.95	243.33	396.44	2516

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
720.00	854.39	829.39	2304	2348	116.49	242.48	395.21	2946
722.00	857.31	832.31	2306	2350	116.05	241.66	394.01	2913
724.00	860.03	835.03	2307	2351	115.68	240.96	393.00	2720
726.00	862.88	837.88	2308	2353	115.26	240.20	391.88	2849
728.00	865.44	840.44	2309	2353	114.94	239.59	391.02	2561
730.00	867.97	842.97	2310	2354	114.62	239.01	390.18	2537
732.00	870.75	845.75	2311	2355	114.23	238.29	389.14	2773
734.00	873.64	848.64	2312	2357	113.82	237.51	388.01	2890
736.00	876.34	851.34	2313	2358	113.46	236.84	387.04	2708
738.00	879.27	854.27	2315	2360	113.04	236.06	385.89	2924
740.00	882.10	857.10	2316	2361	112.64	235.32	384.82	2835
742.00	885.08	860.08	2318	2363	112.21	234.51	383.63	2979
744.00	888.27	863.27	2321	2365	111.72	233.58	382.24	3193
746.00	891.09	866.09	2322	2367	111.34	232.87	381.21	2819
748.00	893.79	868.79	2323	2368	111.00	232.23	380.28	2699
750.00	896.54	871.54	2324	2369	110.65	231.57	379.32	2743
752.00	899.37	874.37	2325	2370	110.27	230.87	378.29	2832
754.00	902.16	877.16	2327	2371	109.91	230.19	377.29	2793
756.00	904.81	879.81	2328	2372	109.59	229.59	376.42	2646
758.00	907.48	882.48	2328	2373	109.27	228.98	375.54	2670
760.00	909.95	884.95	2329	2373	108.99	228.47	374.80	2476
762.00	912.59	887.59	2330	2374	108.68	227.89	373.95	2639
764.00	915.10	890.10	2330	2374	108.40	227.36	373.20	2508
766.00	917.70	892.70	2331	2375	108.10	226.80	372.38	2598

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
768.00	920.44	895.44	2332	2376	107.76	226.18	371.46	2738
770.00	923.20	898.20	2333	2377	107.43	225.54	370.53	2762
772.00	925.74	900.74	2334	2378	107.14	225.01	369.76	2544
774.00	928.49	903.49	2335	2379	106.81	224.39	368.85	2747
776.00	931.29	906.29	2336	2380	106.47	223.74	367.90	2803
778.00	933.88	908.88	2336	2380	106.18	223.20	367.11	2587
780.00	936.51	911.51	2337	2381	105.89	222.64	366.29	2633
782.00	939.14	914.14	2338	2382	105.59	222.09	365.48	2629
784.00	941.62	916.62	2338	2382	105.34	221.61	364.78	2474
786.00	944.29	919.29	2339	2383	105.03	221.04	363.95	2676
788.00	946.77	921.77	2340	2383	104.78	220.56	363.25	2482
790.00	949.33	924.33	2340	2383	104.51	220.04	362.50	2556
792.00	951.98	926.98	2341	2384	104.21	219.49	361.69	2647
794.00	954.75	929.75	2342	2385	103.90	218.89	360.80	2772
796.00	957.33	932.33	2343	2386	103.62	218.37	360.04	2581
798.00	959.83	934.83	2343	2386	103.37	217.90	359.35	2498
800.00	962.36	937.36	2343	2386	103.11	217.41	358.63	2531
802.00	964.76	939.76	2344	2386	102.88	216.97	358.00	2403
804.00	967.22	942.22	2344	2387	102.64	216.52	357.34	2460
806.00	969.79	944.79	2344	2387	102.37	216.02	356.60	2573
808.00	972.40	947.40	2345	2388	102.10	215.50	355.85	2608
810.00	974.89	949.89	2345	2388	101.86	215.04	355.17	2490
812.00	977.37	952.37	2346	2388	101.62	214.59	354.51	2475
814.00	979.94	954.94	2346	2389	101.36	214.09	353.78	2571

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
816.00	982.47	957.47	2347	2389	101.11	213.62	353.09	2532
818.00	984.93	959.93	2347	2389	100.87	213.18	352.44	2459
820.00	987.36	962.36	2347	2389	100.64	212.75	351.81	2434
822.00	989.95	964.95	2348	2390	100.39	212.26	351.09	2589
824.00	992.70	967.70	2349	2391	100.09	211.70	350.25	2748
826.00	995.16	970.16	2349	2391	99.87	211.26	349.62	2456
828.00	997.64	972.64	2349	2391	99.63	210.82	348.97	2482
830.00	1000.07	975.07	2350	2391	99.41	210.40	348.35	2427
832.00	1002.60	977.60	2350	2391	99.17	209.94	347.68	2535
834.00	1005.19	980.19	2351	2392	98.92	209.46	346.96	2594
836.00	1007.88	982.88	2351	2393	98.65	208.94	346.19	2681
838.00	1010.40	985.40	2352	2393	98.41	208.49	345.53	2527
840.00	1012.88	987.88	2352	2393	98.19	208.06	344.90	2476
842.00	1015.44	990.44	2353	2394	97.94	207.60	344.21	2567
844.00	1017.97	992.97	2353	2394	97.71	207.16	343.55	2522
846.00	1020.44	995.44	2353	2394	97.49	206.73	342.93	2477
848.00	1022.92	997.92	2354	2394	97.27	206.31	342.30	2476
850.00	1025.44	1000.44	2354	2395	97.04	205.87	341.65	2519
852.00	1027.91	1002.91	2354	2395	96.82	205.46	341.04	2469
854.00	1030.37	1005.37	2355	2395	96.61	205.04	340.43	2465
856.00	1032.81	1007.81	2355	2395	96.39	204.64	339.83	2441
858.00	1035.44	1010.44	2355	2396	96.15	204.17	339.13	2624
860.00	1038.08	1013.08	2356	2396	95.90	203.69	338.42	2638
862.00	1040.69	1015.69	2357	2397	95.66	203.23	337.73	2613

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
864.00	1043.28	1018.28	2357	2397	95.43	202.78	337.05	2594
866.00	1045.92	1020.92	2358	2398	95.19	202.31	336.35	2637
868.00	1048.58	1023.58	2358	2398	94.94	201.83	335.64	2664
870.00	1051.20	1026.20	2359	2399	94.70	201.37	334.95	2617
872.00	1053.90	1028.90	2360	2400	94.45	200.89	334.22	2698
874.00	1056.63	1031.63	2361	2401	94.20	200.39	333.47	2731
876.00	1059.43	1034.43	2362	2402	93.93	199.87	332.68	2803
878.00	1062.37	1037.37	2363	2403	93.64	199.29	331.81	2936
880.00	1065.39	1040.39	2365	2404	93.33	198.69	330.89	3020
882.00	1068.04	1043.04	2365	2405	93.09	198.23	330.20	2650
884.00	1070.74	1045.74	2366	2406	92.85	197.76	329.49	2700
886.00	1073.68	1048.68	2367	2407	92.56	197.19	328.63	2946
888.00	1076.59	1051.59	2368	2408	92.28	196.65	327.80	2904
890.00	1079.58	1054.58	2370	2410	91.98	196.06	326.91	2996
892.00	1082.40	1057.40	2371	2411	91.73	195.56	326.14	2817
894.00	1085.38	1060.38	2372	2412	91.44	194.99	325.28	2977
896.00	1088.60	1063.60	2374	2414	91.10	194.32	324.25	3226
898.00	1091.71	1066.71	2376	2416	90.79	193.71	323.31	3109
900.00	1094.90	1069.90	2378	2418	90.46	193.06	322.32	3184
902.00	1097.52	1072.52	2378	2419	90.25	192.64	321.69	2619
904.00	1100.46	1075.46	2379	2420	89.97	192.11	320.87	2945
906.00	1103.68	1078.68	2381	2422	89.65	191.46	319.87	3222
908.00	1107.00	1082.00	2383	2424	89.30	190.77	318.81	3318
910.00	1109.81	1084.81	2384	2425	89.06	190.30	318.09	2805

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
912.00	1112.85	1087.85	2386	2427	88.78	189.73	317.22	3042
914.00	1115.60	1090.60	2386	2427	88.55	189.28	316.53	2750
916.00	1118.53	1093.53	2388	2429	88.29	188.77	315.75	2931
918.00	1121.40	1096.40	2389	2430	88.04	188.28	315.00	2869
920.00	1124.37	1099.37	2390	2431	87.77	187.75	314.19	2976
922.00	1127.42	1102.42	2391	2433	87.49	187.20	313.34	3051
924.00	1130.31	1105.31	2392	2434	87.25	186.71	312.59	2887
926.00	1133.07	1108.07	2393	2434	87.02	186.27	311.92	2761
928.00	1135.93	1110.93	2394	2435	86.78	185.80	311.19	2857
930.00	1138.65	1113.65	2395	2436	86.57	185.37	310.54	2726
932.00	1141.73	1116.73	2396	2438	86.29	184.82	309.70	3072
934.00	1144.92	1119.92	2398	2439	86.00	184.24	308.79	3190
936.00	1148.23	1123.23	2400	2442	85.68	183.60	307.80	3317
938.00	1151.43	1126.43	2402	2444	85.39	183.02	306.90	3200
940.00	1154.42	1129.42	2403	2445	85.14	182.52	306.13	2981
942.00	1157.60	1132.60	2405	2447	84.85	181.94	305.24	3186
944.00	1160.86	1135.86	2406	2449	84.55	181.35	304.31	3260
946.00	1163.70	1138.70	2407	2450	84.33	180.90	303.63	2841
948.00	1166.69	1141.69	2409	2451	84.08	180.41	302.87	2983
950.00	1169.57	1144.57	2410	2452	83.86	179.96	302.17	2889
952.00	1172.91	1147.91	2412	2454	83.55	179.35	301.22	3335
954.00	1176.22	1151.22	2413	2456	83.25	178.75	300.28	3310
956.00	1179.26	1154.26	2415	2457	83.00	178.25	299.51	3038
958.00	1182.58	1157.58	2417	2460	82.71	177.65	298.58	3325

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
960.00	1185.80	1160.80	2418	2461	82.43	177.10	297.72	3217
962.00	1189.21	1164.21	2420	2464	82.12	176.48	296.74	3409
964.00	1192.56	1167.56	2422	2466	81.83	175.88	295.81	3352
966.00	1195.77	1170.77	2424	2468	81.56	175.34	294.97	3209
968.00	1199.06	1174.06	2426	2470	81.28	174.77	294.08	3292
970.00	1202.14	1177.14	2427	2471	81.03	174.28	293.32	3079
972.00	1205.17	1180.17	2428	2472	80.80	173.81	292.59	3025
974.00	1208.12	1183.12	2429	2473	80.58	173.37	291.90	2950
976.00	1211.03	1186.03	2430	2474	80.36	172.94	291.24	2917
978.00	1213.83	1188.83	2431	2475	80.17	172.55	290.63	2795
980.00	1216.66	1191.66	2432	2476	79.97	172.15	290.01	2833
982.00	1219.48	1194.48	2433	2477	79.77	171.76	289.40	2816
984.00	1222.27	1197.27	2433	2477	79.58	171.37	288.81	2792
986.00	1225.10	1200.10	2434	2478	79.38	170.98	288.19	2838
988.00	1227.87	1202.87	2435	2479	79.20	170.60	287.62	2765
990.00	1230.63	1205.63	2436	2479	79.01	170.23	287.04	2761
992.00	1233.51	1208.51	2437	2480	78.81	169.83	286.42	2876
994.00	1236.28	1211.28	2437	2481	78.63	169.46	285.84	2771
996.00	1239.14	1214.14	2438	2482	78.43	169.06	285.23	2861
998.00	1242.00	1217.00	2439	2482	78.23	168.67	284.62	2859
1000.00	1244.85	1219.85	2440	2483	78.04	168.28	284.01	2854
1002.00	1247.67	1222.67	2440	2484	77.85	167.91	283.43	2815
1004.00	1250.51	1225.51	2441	2485	77.66	167.52	282.83	2845
1006.00	1253.35	1228.35	2442	2485	77.47	167.14	282.24	2839

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
1008.00	1256.37	1231.37	2443	2487	77.26	166.71	281.56	3019
1010.00	1259.42	1234.42	2444	2488	77.04	166.27	280.87	3055
1012.00	1262.35	1237.35	2445	2489	76.85	165.87	280.25	2925
1014.00	1265.29	1240.29	2446	2490	76.65	165.47	279.62	2939
1016.00	1268.29	1243.29	2447	2491	76.44	165.06	278.97	3004
1018.00	1271.33	1246.33	2449	2492	76.23	164.63	278.30	3036
1020.00	1274.40	1249.40	2450	2493	76.02	164.20	277.62	3071
1022.00	1277.53	1252.53	2451	2495	75.80	163.75	276.92	3129
1024.00	1280.74	1255.74	2453	2496	75.57	163.28	276.17	3210
1026.00	1283.93	1258.93	2454	2498	75.34	162.82	275.44	3193
1028.00	1287.23	1262.23	2456	2500	75.10	162.33	274.67	3294
1030.00	1290.48	1265.48	2457	2501	74.86	161.85	273.91	3259
1032.00	1293.77	1268.77	2459	2503	74.63	161.37	273.15	3286
1034.00	1297.13	1272.13	2461	2505	74.38	160.86	272.35	3360
1036.00	1300.54	1275.54	2462	2507	74.13	160.35	271.54	3414
1038.00	1303.92	1278.92	2464	2509	73.88	159.85	270.74	3376
1040.00	1307.34	1282.34	2466	2511	73.63	159.33	269.93	3421
1042.00	1310.67	1285.67	2468	2513	73.40	158.85	269.16	3330
1044.00	1314.15	1289.15	2470	2515	73.14	158.33	268.33	3477
1046.00	1317.40	1292.40	2471	2517	72.92	157.88	267.62	3250
1048.00	1320.67	1295.67	2473	2518	72.70	157.42	266.89	3272
1050.00	1324.11	1299.11	2474	2521	72.45	156.92	266.09	3442
1052.00	1327.79	1302.79	2477	2523	72.17	156.34	265.18	3680
1054.00	1331.55	1306.55	2479	2526	71.88	155.75	264.22	3760

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
1056.00	1335.18	1310.18	2481	2529	71.62	155.20	263.35	3626
1058.00	1338.80	1313.80	2484	2531	71.35	154.65	262.48	3624
1060.00	1342.29	1317.29	2485	2533	71.11	154.15	261.68	3492
1062.00	1345.80	1320.80	2487	2536	70.87	153.65	260.88	3507
1064.00	1349.21	1324.21	2489	2538	70.64	153.18	260.13	3409
1066.00	1352.65	1327.65	2491	2539	70.41	152.71	259.37	3434
1068.00	1356.06	1331.06	2493	2541	70.18	152.24	258.63	3415
1070.00	1359.44	1334.44	2494	2543	69.96	151.79	257.90	3382
1072.00	1362.92	1337.92	2496	2545	69.73	151.31	257.14	3480
1074.00	1366.49	1341.49	2498	2548	69.48	150.81	256.33	3567
1076.00	1370.79	1345.79	2501	2552	69.13	150.07	255.15	4304
1078.00	1375.11	1350.11	2505	2556	68.78	149.35	253.98	4312
1080.00	1378.99	1353.99	2507	2559	68.50	148.76	253.04	3888
1082.00	1382.84	1357.84	2510	2562	68.23	148.20	252.13	3850
1084.00	1386.51	1361.51	2512	2565	67.98	147.69	251.31	3664
1086.00	1390.41	1365.41	2515	2568	67.70	147.11	250.39	3905
1088.00	1394.49	1369.49	2517	2572	67.40	146.49	249.38	4079
1090.00	1398.39	1373.39	2520	2575	67.13	145.93	248.47	3899
1092.00	1402.23	1377.23	2522	2578	66.87	145.39	247.60	3835
1094.00	1405.56	1380.56	2524	2579	66.67	144.98	246.95	3339
1096.00	1408.84	1383.84	2525	2581	66.49	144.60	246.33	3279
1098.00	1411.97	1386.97	2526	2582	66.32	144.25	245.78	3126
1100.00	1415.29	1390.29	2528	2583	66.13	143.85	245.15	3318
1102.00	1418.41	1393.41	2529	2584	65.96	143.51	244.60	3125

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
1104.00	1421.58	1396.58	2530	2586	65.79	143.16	244.03	3172
1106.00	1424.92	1399.92	2532	2587	65.60	142.76	243.40	3341
1108.00	1428.74	1403.74	2534	2590	65.35	142.25	242.57	3821
1110.00	1432.14	1407.14	2535	2592	65.16	141.85	241.92	3400
1112.00	1435.47	1410.47	2537	2593	64.98	141.47	241.31	3322
1114.00	1438.80	1413.80	2538	2595	64.79	141.08	240.70	3337
1116.00	1442.30	1417.30	2540	2596	64.59	140.67	240.02	3494
1118.00	1445.54	1420.54	2541	2598	64.42	140.31	239.45	3240
1120.00	1448.82	1423.82	2543	2599	64.24	139.95	238.87	3285
1122.00	1452.05	1427.05	2544	2600	64.07	139.60	238.31	3223
1124.00	1455.30	1430.30	2545	2602	63.90	139.25	237.74	3251
1126.00	1458.77	1433.77	2547	2603	63.71	138.84	237.09	3472
1128.00	1461.86	1436.86	2548	2604	63.56	138.53	236.59	3088
1130.00	1465.05	1440.05	2549	2606	63.40	138.20	236.05	3194
1132.00	1468.22	1443.22	2550	2607	63.24	137.87	235.52	3172
1134.00	1471.49	1446.49	2551	2608	63.07	137.52	234.96	3264
1136.00	1474.90	1449.90	2553	2610	62.89	137.14	234.35	3409
1138.00	1478.32	1453.32	2554	2611	62.71	136.76	233.74	3427
1140.00	1482.05	1457.05	2556	2614	62.49	136.31	233.01	3732
1142.00	1485.67	1460.67	2558	2616	62.29	135.89	232.33	3616
1144.00	1489.06	1464.06	2560	2617	62.12	135.53	231.74	3389
1146.00	1492.19	1467.19	2561	2618	61.97	135.22	231.24	3131
1148.00	1495.24	1470.24	2561	2619	61.83	134.93	230.77	3053
1150.00	1498.65	1473.65	2563	2621	61.65	134.57	230.19	3409

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
1152.00	1501.82	1476.82	2564	2622	61.50	134.25	229.68	3169
1154.00	1505.05	1480.05	2565	2623	61.35	133.93	229.16	3234
1156.00	1508.30	1483.30	2566	2624	61.19	133.61	228.64	3249
1158.00	1511.46	1486.46	2567	2625	61.05	133.30	228.15	3153
1160.00	1514.68	1489.68	2568	2626	60.89	132.99	227.64	3219
1162.00	1517.83	1492.83	2569	2627	60.75	132.69	227.15	3152
1164.00	1521.02	1496.02	2570	2628	60.60	132.38	226.65	3191
1166.00	1524.25	1499.25	2572	2629	60.45	132.06	226.15	3230
1168.00	1527.41	1502.41	2573	2631	60.31	131.77	225.66	3163
1170.00	1530.70	1505.70	2574	2632	60.15	131.44	225.14	3291
1172.00	1533.93	1508.93	2575	2633	60.01	131.13	224.64	3229
1174.00	1537.10	1512.10	2576	2634	59.86	130.84	224.16	3162
1176.00	1540.26	1515.26	2577	2635	59.72	130.55	223.69	3164
1178.00	1543.29	1518.29	2578	2636	59.60	130.28	223.26	3027
1180.00	1546.34	1521.34	2579	2636	59.47	130.01	222.82	3053
1182.00	1549.37	1524.37	2579	2637	59.34	129.74	222.39	3031
1184.00	1552.50	1527.50	2580	2638	59.20	129.46	221.94	3125
1186.00	1555.47	1530.47	2581	2639	59.08	129.21	221.53	2976
1188.00	1558.86	1533.86	2582	2640	58.92	128.88	220.99	3391
1190.00	1561.91	1536.91	2583	2641	58.80	128.61	220.56	3052
1192.00	1564.72	1539.72	2583	2641	58.69	128.39	220.20	2804
1194.00	1567.54	1542.54	2584	2641	58.58	128.17	219.85	2820
1196.00	1570.29	1545.29	2584	2642	58.48	127.96	219.51	2750
1198.00	1573.08	1548.08	2584	2642	58.38	127.74	219.16	2788

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
1200.00	1576.21	1551.21	2585	2643	58.25	127.47	218.71	3135
1202.00	1579.34	1554.34	2586	2644	58.12	127.19	218.27	3134
1204.00	1582.48	1557.48	2587	2645	57.99	126.92	217.82	3140
1206.00	1585.59	1560.59	2588	2645	57.86	126.65	217.39	3101
1208.00	1588.73	1563.73	2589	2646	57.73	126.38	216.95	3144
1210.00	1591.80	1566.80	2590	2647	57.61	126.12	216.53	3068
1212.00	1594.90	1569.90	2591	2648	57.48	125.86	216.11	3105
1214.00	1597.97	1572.97	2591	2649	57.36	125.61	215.69	3065
1216.00	1600.94	1575.94	2592	2649	57.24	125.37	215.31	2972
1218.00	1603.99	1578.99	2593	2650	57.12	125.12	214.90	3047
1220.00	1606.98	1581.98	2593	2650	57.01	124.88	214.51	2999
1222.00	1610.01	1585.01	2594	2651	56.89	124.63	214.11	3024
1224.00	1613.01	1588.01	2595	2652	56.78	124.39	213.72	3003
1226.00	1616.48	1591.48	2596	2653	56.63	124.07	213.20	3470
1228.00	1619.67	1594.67	2597	2654	56.50	123.80	212.76	3191
1230.00	1622.67	1597.67	2598	2655	56.38	123.57	212.37	2998
1232.00	1625.61	1600.61	2598	2655	56.28	123.34	212.01	2937
1234.00	1628.52	1603.52	2599	2656	56.17	123.12	211.65	2915
1236.00	1631.40	1606.40	2599	2656	56.07	122.91	211.30	2880
1238.00	1634.23	1609.23	2600	2656	55.97	122.70	210.97	2825
1240.00	1637.27	1612.27	2600	2657	55.86	122.46	210.58	3040
1242.00	1640.15	1615.15	2601	2657	55.76	122.25	210.24	2883
1244.00	1642.89	1617.89	2601	2658	55.66	122.06	209.93	2738
1246.00	1645.70	1620.70	2601	2658	55.57	121.86	209.60	2815

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
1248.00	1648.53	1623.53	2602	2658	55.47	121.66	209.27	2828
1250.00	1651.38	1626.38	2602	2658	55.37	121.45	208.94	2848
1252.00	1654.28	1629.28	2603	2659	55.27	121.24	208.59	2902
1254.00	1657.13	1632.13	2603	2659	55.18	121.03	208.26	2852
1256.00	1659.99	1634.99	2603	2659	55.08	120.83	207.93	2855
1258.00	1662.90	1637.90	2604	2660	54.98	120.62	207.59	2907
1260.00	1665.72	1640.72	2604	2660	54.88	120.42	207.26	2824
1262.00	1668.73	1643.73	2605	2661	54.78	120.20	206.90	3012
1264.00	1671.58	1646.58	2605	2661	54.68	119.99	206.57	2853
1266.00	1674.63	1649.63	2606	2662	54.57	119.77	206.20	3041
1268.00	1677.69	1652.69	2607	2662	54.46	119.54	205.82	3060
1270.00	1680.53	1655.53	2607	2663	54.37	119.34	205.50	2846
1272.00	1683.46	1658.46	2608	2663	54.27	119.13	205.16	2931
1274.00	1686.32	1661.32	2608	2663	54.17	118.93	204.83	2860
1276.00	1689.23	1664.23	2609	2664	54.08	118.72	204.50	2910
1278.00	1692.08	1667.08	2609	2664	53.98	118.53	204.18	2845
1280.00	1694.95	1669.95	2609	2664	53.89	118.33	203.86	2868
1282.00	1697.86	1672.86	2610	2665	53.79	118.13	203.53	2911
1284.00	1700.88	1675.88	2610	2665	53.69	117.91	203.17	3024
1286.00	1703.84	1678.84	2611	2666	53.59	117.70	202.83	2961
1288.00	1706.95	1681.95	2612	2667	53.48	117.47	202.45	3106
1290.00	1710.00	1685.00	2612	2667	53.37	117.25	202.09	3056
1292.00	1713.08	1688.08	2613	2668	53.27	117.03	201.72	3073
1294.00	1716.19	1691.19	2614	2669	53.16	116.80	201.35	3112

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
1296.00	1719.36	1694.36	2615	2670	53.05	116.56	200.96	3176
1298.00	1722.53	1697.53	2616	2670	52.94	116.33	200.57	3165
1300.00	1725.55	1700.55	2616	2671	52.84	116.11	200.22	3022
1302.00	1728.80	1703.80	2617	2672	52.72	115.87	199.82	3253
1304.00	1731.96	1706.96	2618	2673	52.61	115.64	199.44	3156
1306.00	1735.06	1710.06	2619	2674	52.51	115.42	199.08	3102
1308.00	1738.16	1713.16	2620	2674	52.40	115.20	198.72	3094
1310.00	1741.39	1716.39	2620	2675	52.29	114.96	198.32	3231
1312.00	1744.56	1719.56	2621	2676	52.18	114.73	197.95	3171
1314.00	1747.74	1722.74	2622	2677	52.07	114.50	197.57	3184
1316.00	1750.82	1725.82	2623	2677	51.97	114.28	197.22	3076
1318.00	1753.88	1728.88	2623	2678	51.87	114.07	196.87	3063
1320.00	1756.94	1731.94	2624	2679	51.77	113.86	196.52	3065
1322.00	1760.02	1735.02	2625	2679	51.67	113.65	196.18	3080
1324.00	1763.29	1738.29	2626	2680	51.56	113.41	195.78	3264
1326.00	1766.36	1741.36	2626	2681	51.46	113.20	195.44	3075
1328.00	1769.41	1744.41	2627	2682	51.36	113.00	195.10	3051
1330.00	1772.48	1747.48	2628	2682	51.27	112.79	194.76	3063
1332.00	1775.55	1750.55	2628	2683	51.17	112.59	194.42	3068
1334.00	1778.61	1753.61	2629	2683	51.07	112.38	194.08	3068
1336.00	1781.68	1756.68	2630	2684	50.98	112.18	193.75	3068
1338.00	1784.75	1759.75	2630	2685	50.88	111.97	193.41	3068
1340.00	1787.82	1762.82	2631	2685	50.78	111.77	193.08	3114
1342.00	1790.93	1765.93	2632	2686	50.69	111.56	192.73	

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
1344.00	1794.26	1769.26	2633	2687	50.57	111.32	192.34	3330
1346.00	1797.34	1772.34	2633	2688	50.48	111.12	192.00	3079
1348.00	1800.50	1775.50	2634	2688	50.38	110.91	191.65	3162
1350.00	1803.67	1778.67	2635	2689	50.28	110.69	191.30	3170
1352.00	1806.78	1781.78	2636	2690	50.18	110.49	190.96	3113
1354.00	1810.03	1785.03	2637	2691	50.08	110.26	190.59	3246
1356.00	1813.27	1788.27	2638	2692	49.97	110.04	190.23	3241
1358.00	1816.57	1791.57	2639	2693	49.86	109.82	189.85	3304
1360.00	1819.78	1794.78	2639	2694	49.76	109.60	189.50	3203
1362.00	1823.04	1798.04	2640	2694	49.66	109.38	189.13	3262
1364.00	1826.70	1801.70	2642	2696	49.53	109.10	188.67	3658
1366.00	1829.89	1804.89	2643	2697	49.43	108.89	188.32	3191
1368.00	1833.22	1808.22	2644	2698	49.32	108.67	187.94	3325
1370.00	1836.49	1811.49	2645	2699	49.22	108.45	187.58	3278
1372.00	1839.72	1814.72	2645	2700	49.12	108.23	187.23	3231
1374.00	1842.98	1817.98	2646	2701	49.02	108.02	186.87	3260
1376.00	1846.23	1821.23	2647	2701	48.92	107.81	186.52	3241
1378.00	1849.44	1824.44	2648	2702	48.82	107.60	186.18	3213
1380.00	1852.73	1827.73	2649	2703	48.72	107.38	185.82	3295
1382.00	1856.01	1831.01	2650	2704	48.62	107.17	185.46	3276
1384.00	1859.38	1834.38	2651	2705	48.52	106.94	185.09	3366
1386.00	1862.87	1837.87	2652	2707	48.40	106.70	184.68	3494
1388.00	1866.33	1841.33	2653	2708	48.29	106.46	184.29	3463
1390.00	1869.74	1844.74	2654	2709	48.18	106.23	183.91	3411

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
1392.00	1873.23	1848.23	2656	2710	48.07	105.99	183.51	3488
1394.00	1876.74	1851.74	2657	2712	47.96	105.75	183.11	3507
1396.00	1880.17	1855.17	2658	2713	47.85	105.53	182.73	3431
1398.00	1883.73	1858.73	2659	2714	47.74	105.28	182.32	3565
1400.00	1887.18	1862.18	2660	2715	47.63	105.05	181.94	3444
1402.00	1890.71	1865.71	2661	2717	47.52	104.81	181.54	3528
1404.00	1894.31	1869.31	2663	2718	47.40	104.56	181.13	3606
1406.00	1897.73	1872.73	2664	2719	47.30	104.34	180.76	3416
1408.00	1901.21	1876.21	2665	2720	47.19	104.11	180.38	3482
1410.00	1904.68	1879.68	2666	2722	47.09	103.89	180.00	3471
1412.00	1908.33	1883.33	2668	2723	46.97	103.64	179.58	3649
1414.00	1911.77	1886.77	2669	2724	46.87	103.42	179.22	3440
1416.00	1915.18	1890.18	2670	2725	46.77	103.20	178.85	3413
1418.00	1918.69	1893.69	2671	2727	46.66	102.97	178.47	3509
1420.00	1922.22	1897.22	2672	2728	46.55	102.74	178.09	3530
1422.00	1925.67	1900.67	2673	2729	46.45	102.52	177.73	3451
1424.00	1929.14	1904.14	2674	2730	46.35	102.30	177.36	3465
1426.00	1932.69	1907.69	2676	2732	46.24	102.07	176.98	3550
1428.00	1936.29	1911.29	2677	2733	46.13	101.84	176.58	3603
1430.00	1939.86	1914.86	2678	2734	46.02	101.61	176.20	3565
1432.00	1943.51	1918.51	2679	2736	45.91	101.37	175.80	3653
1434.00	1947.01	1922.01	2681	2737	45.81	101.15	175.43	3502
1436.00	1950.54	1925.54	2682	2738	45.71	100.93	175.06	3530
1438.00	1954.07	1929.07	2683	2740	45.60	100.71	174.69	3530

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
1440.00	1957.66	1932.66	2684	2741	45.50	100.48	174.31	3594
1442.00	1961.19	1936.19	2685	2742	45.40	100.26	173.95	3524
1444.00	1964.77	1939.77	2687	2744	45.29	100.04	173.57	3578
1446.00	1968.36	1943.36	2688	2745	45.19	99.81	173.20	3592
1448.00	1972.02	1947.02	2689	2746	45.08	99.58	172.81	3661
1450.00	1975.63	1950.63	2691	2748	44.97	99.35	172.43	3614
1452.00	1979.17	1954.17	2692	2749	44.87	99.14	172.07	3537
1454.00	1982.75	1957.75	2693	2750	44.77	98.92	171.70	3574
1456.00	1986.43	1961.43	2694	2752	44.66	98.69	171.31	3683
1458.00	1990.07	1965.07	2696	2753	44.56	98.46	170.94	3642
1460.00	1993.76	1968.76	2697	2755	44.45	98.23	170.55	3693
1462.00	1997.47	1972.47	2698	2756	44.34	98.00	170.16	3708
1464.00	2001.16	1976.16	2700	2758	44.24	97.77	169.78	3694
1466.00	2004.85	1979.85	2701	2759	44.13	97.55	169.40	3680
1468.00	2008.48	1983.48	2702	2761	44.03	97.33	169.03	3635
1470.00	2012.21	1987.21	2704	2762	43.92	97.10	168.65	3731
1472.00	2015.99	1990.99	2705	2764	43.82	96.86	168.25	3775
1474.00	2019.71	1994.71	2707	2765	43.71	96.64	167.87	3726
1476.00	2023.38	1998.38	2708	2767	43.61	96.42	167.50	3669
1478.00	2027.24	2002.24	2709	2769	43.50	96.18	167.10	3860
1480.00	2031.09	2006.09	2711	2770	43.38	95.94	166.69	3851
1482.00	2034.83	2009.83	2712	2772	43.28	95.71	166.32	3741
1484.00	2038.56	2013.56	2714	2773	43.18	95.49	165.94	3731
1486.00	2042.39	2017.39	2715	2775	43.07	95.26	165.55	3831

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
1488.00	2046.25	2021.25	2717	2777	42.96	95.02	165.15	3859
1490.00	2050.13	2025.13	2718	2779	42.85	94.78	164.75	3873
1492.00	2054.01	2029.01	2720	2780	42.74	94.55	164.36	3880
1494.00	2057.88	2032.88	2721	2782	42.63	94.31	163.96	3877
1496.00	2061.61	2036.61	2723	2784	42.53	94.10	163.60	3732
1498.00	2065.41	2040.41	2724	2785	42.43	93.87	163.22	3793
1500.00	2069.10	2044.10	2725	2787	42.33	93.66	162.87	3692
1502.00	2072.64	2047.64	2727	2788	42.24	93.47	162.55	3535
1504.00	2076.47	2051.47	2728	2789	42.14	93.25	162.17	3835
1506.00	2080.38	2055.38	2730	2791	42.03	93.02	161.78	3908
1508.00	2084.30	2059.30	2731	2793	41.92	92.78	161.39	3917
1510.00	2088.14	2063.14	2733	2795	41.82	92.56	161.01	3847
1512.00	2092.07	2067.07	2734	2796	41.71	92.33	160.62	3931
1514.00	2096.00	2071.00	2736	2798	41.61	92.10	160.24	3924
1516.00	2099.86	2074.86	2737	2800	41.50	91.88	159.86	3866
1518.00	2103.31	2078.31	2738	2801	41.42	91.70	159.57	3445
1520.00	2106.97	2081.97	2739	2802	41.33	91.51	159.24	3667
1522.00	2110.38	2085.38	2740	2803	41.25	91.34	158.95	3409
1524.00	2113.73	2088.73	2741	2804	41.18	91.18	158.68	3347
1526.00	2117.09	2092.09	2742	2805	41.10	91.01	158.40	3359
1528.00	2120.49	2095.49	2743	2805	41.03	90.85	158.12	3397
1530.00	2123.84	2098.84	2744	2806	40.95	90.68	157.85	3351
1532.00	2127.49	2102.49	2745	2807	40.86	90.49	157.53	3650
1534.00	2131.50	2106.50	2746	2809	40.76	90.26	157.14	4009

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
1536.00	2134.79	2109.79	2747	2810	40.68	90.11	156.88	3291
1538.00	2138.27	2113.27	2748	2811	40.61	89.94	156.59	3485
1540.00	2142.20	2117.20	2750	2813	40.50	89.72	156.22	3924
1542.00	2146.24	2121.24	2751	2815	40.40	89.49	155.83	4046
1544.00	2150.00	2125.00	2753	2816	40.31	89.29	155.50	3759
1546.00	2153.62	2128.62	2754	2817	40.22	89.11	155.19	3620
1548.00	2157.08	2132.08	2755	2818	40.15	88.94	154.91	3456
1550.00	2160.67	2135.67	2756	2819	40.06	88.77	154.61	3593
1552.00	2164.25	2139.25	2757	2821	39.98	88.59	154.32	3579
1554.00	2167.87	2142.87	2758	2822	39.90	88.41	154.01	3622
1556.00	2171.24	2146.24	2759	2822	39.83	88.26	153.75	3366
1558.00	2174.59	2149.59	2759	2823	39.76	88.10	153.50	3349
1560.00	2177.88	2152.88	2760	2824	39.69	87.96	153.25	3292
1562.00	2181.13	2156.13	2761	2824	39.62	87.81	153.01	3253
1564.00	2184.96	2159.96	2762	2826	39.53	87.62	152.68	3826
1566.00	2189.02	2164.02	2764	2828	39.43	87.39	152.30	4067
1568.00	2193.23	2168.23	2766	2830	39.32	87.16	151.90	4203
1570.00	2197.35	2172.35	2767	2832	39.22	86.93	151.51	4124
1572.00	2201.19	2176.19	2769	2834	39.13	86.74	151.18	3843
1574.00	2204.87	2179.87	2770	2835	39.04	86.56	150.88	3678
1576.00	2208.47	2183.47	2771	2836	38.97	86.39	150.60	3597
1578.00	2212.30	2187.30	2772	2837	38.88	86.20	150.27	3830
1580.00	2216.39	2191.39	2774	2839	38.78	85.98	149.90	4088
1582.00	2220.28	2195.28	2775	2841	38.69	85.79	149.57	3891

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
1584.00	2224.24	2199.24	2777	2843	38.59	85.58	149.23	3960
1586.00	2228.24	2203.24	2778	2844	38.50	85.38	148.88	3997
1588.00	2232.26	2207.26	2780	2846	38.40	85.17	148.53	4020
1590.00	2236.16	2211.16	2781	2848	38.32	84.98	148.20	3902
1592.00	2239.86	2214.86	2782	2849	38.24	84.81	147.91	3705
1594.00	2243.41	2218.41	2783	2850	38.16	84.65	147.64	3546
1596.00	2247.07	2222.07	2785	2851	38.09	84.48	147.36	3665
1598.00	2250.90	2225.90	2786	2853	38.00	84.30	147.05	3833
1600.00	2254.73	2229.73	2787	2854	37.92	84.11	146.74	3830
1602.00	2258.66	2233.66	2789	2856	37.83	83.92	146.41	3926
1604.00	2262.71	2237.71	2790	2857	37.74	83.72	146.07	4051
1606.00	2266.65	2241.65	2792	2859	37.65	83.53	145.74	3942
1608.00	2270.67	2245.67	2793	2861	37.56	83.33	145.41	4017
1610.00	2274.71	2249.71	2795	2862	37.47	83.13	145.07	4042
1612.00	2278.68	2253.68	2796	2864	37.38	82.94	144.75	3964
1614.00	2282.49	2257.49	2797	2865	37.30	82.77	144.45	3818
1616.00	2286.40	2261.40	2799	2867	37.21	82.58	144.14	3908
1618.00	2290.18	2265.18	2800	2868	37.14	82.41	143.85	3778
1620.00	2294.00	2269.00	2801	2870	37.06	82.24	143.56	3814
1622.00	2297.65	2272.65	2802	2871	36.98	82.08	143.29	3655
1624.00	2301.27	2276.27	2803	2872	36.91	81.93	143.03	3621
1626.00	2304.94	2279.94	2804	2873	36.84	81.77	142.76	3671
1628.00	2308.68	2283.68	2806	2874	36.76	81.61	142.48	3736
1630.00	2312.48	2287.48	2807	2875	36.69	81.44	142.19	3803

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
1632.00	2316.36	2291.36	2808	2877	36.61	81.26	141.90	3874
1634.00	2320.13	2295.13	2809	2878	36.53	81.10	141.62	3777
1636.00	2323.94	2298.94	2810	2880	36.45	80.93	141.33	3806
1638.00	2327.69	2302.69	2812	2881	36.38	80.77	141.06	3754
1640.00	2331.48	2306.48	2813	2882	36.30	80.61	140.78	3789
1642.00	2335.21	2310.21	2814	2883	36.23	80.45	140.51	3730
1644.00	2338.87	2313.87	2815	2884	36.16	80.30	140.25	3661
1646.00	2342.69	2317.69	2816	2886	36.09	80.13	139.97	3822
1648.00	2346.34	2321.34	2817	2887	36.02	79.98	139.72	3645
1650.00	2350.00	2325.00	2818	2888	35.95	79.83	139.46	3663
1652.00	2353.65	2328.65	2819	2889	35.88	79.68	139.21	3649
1654.00	2357.35	2332.35	2820	2890	35.81	79.53	138.95	3697
1656.00	2361.06	2336.06	2821	2891	35.74	79.38	138.69	3709
1658.00	2364.74	2339.74	2822	2892	35.67	79.23	138.44	3682
1660.00	2368.38	2343.38	2823	2893	35.60	79.08	138.19	3641
1662.00	2372.11	2347.11	2824	2894	35.53	78.93	137.93	3730
1664.00	2375.94	2350.94	2826	2896	35.46	78.77	137.66	3829
1666.00	2379.77	2354.77	2827	2897	35.39	78.61	137.39	3833
1668.00	2383.59	2358.59	2828	2898	35.32	78.46	137.12	3820
1670.00	2387.36	2362.36	2829	2899	35.24	78.30	136.86	3771
1672.00	2390.96	2365.96	2830	2900	35.18	78.16	136.62	3596
1674.00	2394.74	2369.74	2831	2901	35.11	78.01	136.36	3782
1676.00	2398.52	2373.52	2832	2903	35.04	77.86	136.10	3779
1678.00	2402.47	2377.47	2834	2904	34.96	77.69	135.82	3954

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
1680.00	2406.42	2381.42	2835	2906	34.89	77.53	135.54	3944
1682.00	2410.32	2385.32	2836	2907	34.82	77.37	135.26	3907
1684.00	2414.05	2389.05	2837	2908	34.75	77.22	135.02	3722
1686.00	2417.66	2392.66	2838	2909	34.69	77.08	134.78	3615
1688.00	2421.28	2396.28	2839	2910	34.62	76.95	134.55	3615
1690.00	2424.92	2399.92	2840	2911	34.56	76.81	134.32	3642
1692.00	2428.64	2403.64	2841	2912	34.50	76.67	134.07	3724
1694.00	2432.49	2407.49	2842	2913	34.43	76.52	133.81	3845
1696.00	2436.30	2411.30	2844	2915	34.36	76.37	133.56	3813
1698.00	2440.15	2415.15	2845	2916	34.29	76.22	133.30	3849
1700.00	2444.08	2419.08	2846	2917	34.22	76.06	133.03	3931
1702.00	2447.96	2422.96	2847	2919	34.15	75.91	132.77	3879
1704.00	2451.80	2426.80	2848	2920	34.08	75.76	132.52	3838
1706.00	2455.66	2430.66	2850	2921	34.01	75.61	132.26	3864
1708.00	2459.51	2434.51	2851	2922	33.94	75.46	132.01	3847
1710.00	2463.37	2438.37	2852	2924	33.87	75.31	131.75	3863
1712.00	2467.17	2442.17	2853	2925	33.81	75.17	131.51	3802
1714.00	2470.97	2445.97	2854	2926	33.74	75.02	131.27	3799
1716.00	2474.87	2449.87	2855	2927	33.67	74.87	131.01	3899
1718.00	2478.77	2453.77	2857	2929	33.60	74.72	130.75	3902
1720.00	2482.64	2457.64	2858	2930	33.54	74.58	130.50	3866
1722.00	2486.62	2461.62	2859	2931	33.47	74.42	130.24	3984
1724.00	2490.49	2465.49	2860	2933	33.40	74.28	129.99	3872
1726.00	2494.44	2469.44	2861	2934	33.33	74.13	129.73	3949

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
1728.00	2498.19	2473.19	2862	2935	33.27	73.99	129.50	3744
1730.00	2502.29	2477.29	2864	2937	33.19	73.83	129.23	4097
1732.00	2506.36	2481.36	2865	2938	33.12	73.67	128.95	4074
1734.00	2510.57	2485.57	2867	2940	33.04	73.50	128.66	4207
1736.00	2514.82	2489.81	2868	2942	32.97	73.33	128.37	4249
1738.00	2519.04	2494.04	2870	2944	32.89	73.16	128.08	4222
1740.00	2522.93	2497.93	2871	2945	32.82	73.02	127.84	3895
1742.00	2526.93	2501.93	2872	2946	32.76	72.87	127.58	4001
1744.00	2530.97	2505.97	2874	2948	32.69	72.72	127.32	4037
1746.00	2535.01	2510.01	2875	2949	32.62	72.57	127.06	4034
1748.00	2538.94	2513.94	2876	2951	32.55	72.42	126.82	3930
1750.00	2542.97	2517.97	2878	2952	32.48	72.27	126.56	4035
1752.00	2546.95	2521.95	2879	2953	32.42	72.13	126.31	3981
1754.00	2551.02	2526.02	2880	2955	32.35	71.98	126.06	4066
1756.00	2555.09	2530.09	2882	2956	32.28	71.83	125.80	4074
1758.00	2559.13	2534.13	2883	2958	32.21	71.68	125.54	4042
1760.00	2563.11	2538.11	2884	2959	32.15	71.54	125.30	3975
1762.00	2567.09	2542.09	2885	2961	32.08	71.39	125.05	3986
1764.00	2570.94	2545.94	2887	2962	32.02	71.26	124.83	3844
1766.00	2574.78	2549.78	2888	2963	31.96	71.13	124.60	3845
1768.00	2578.80	2553.80	2889	2964	31.89	70.99	124.36	4016
1770.00	2582.71	2557.71	2890	2966	31.83	70.85	124.13	3909
1772.00	2586.56	2561.56	2891	2967	31.77	70.72	123.90	3848
1774.00	2590.43	2565.43	2892	2968	31.71	70.59	123.68	3878

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
1776.00	2594.31	2569.31	2893	2969	31.65	70.46	123.45	3872
1778.00	2598.11	2573.11	2894	2970	31.60	70.33	123.24	3800
1780.00	2602.03	2577.03	2896	2971	31.53	70.20	123.01	3924
1782.00	2606.10	2581.10	2897	2973	31.47	70.05	122.76	4070
1784.00	2610.15	2585.15	2898	2974	31.40	69.91	122.52	4049
1786.00	2614.23	2589.23	2899	2976	31.34	69.77	122.27	4080
1788.00	2618.27	2593.27	2901	2977	31.28	69.63	122.03	4043
1790.00	2622.24	2597.24	2902	2978	31.21	69.50	121.80	3969
1792.00	2626.37	2601.37	2903	2980	31.15	69.35	121.55	4128
1794.00	2630.44	2605.44	2905	2981	31.08	69.21	121.31	4070
1796.00	2634.50	2609.50	2906	2983	31.02	69.07	121.08	4064
1798.00	2638.44	2613.44	2907	2984	30.96	68.94	120.85	3937
1800.00	2642.50	2617.50	2908	2986	30.90	68.80	120.62	4064
1802.00	2646.56	2621.56	2910	2987	30.84	68.67	120.38	4054
1804.00	2650.60	2625.60	2911	2988	30.78	68.53	120.15	4039
1806.00	2654.62	2629.62	2912	2990	30.71	68.40	119.92	4022
1808.00	2658.42	2633.42	2913	2991	30.66	68.28	119.72	3800
1810.00	2662.47	2637.47	2914	2992	30.60	68.15	119.49	4048
1812.00	2666.36	2641.36	2915	2993	30.54	68.02	119.27	3894
1814.00	2670.45	2645.45	2917	2995	30.48	67.89	119.04	4091
1816.00	2674.34	2649.34	2918	2996	30.42	67.76	118.83	3885
1818.00	2678.40	2653.40	2919	2997	30.36	67.63	118.60	4063
1820.00	2682.43	2657.43	2920	2998	30.30	67.50	118.38	4033
1822.00	2686.41	2661.41	2921	3000	30.25	67.37	118.16	3975

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
1824.00	2690.48	2665.48	2923	3001	30.19	67.24	117.93	4070
1826.00	2694.61	2669.61	2924	3003	30.12	67.11	117.70	4135
1828.00	2698.73	2673.73	2925	3004	30.06	66.97	117.47	4119
1830.00	2702.95	2677.95	2927	3006	30.00	66.83	117.23	4223
1832.00	2707.26	2682.26	2928	3007	29.93	66.69	116.98	4309
1834.00	2711.42	2686.42	2930	3009	29.87	66.55	116.74	4153
1836.00	2715.64	2690.64	2931	3010	29.81	66.41	116.50	4220
1838.00	2719.76	2694.76	2932	3012	29.75	66.28	116.28	4118
1840.00	2724.06	2699.06	2934	3014	29.68	66.14	116.03	4303
1842.00	2728.20	2703.20	2935	3015	29.62	66.01	115.81	4143
1844.00	2732.49	2707.49	2937	3017	29.56	65.86	115.56	4290

PE600289

This is an enclosure indicator page.
The enclosure PE600289 is enclosed within the container PE900383 at this location in this document.

The enclosure PE600289 has the following characteristics:

ITEM_BARCODE	PE600289
CONTAINER_BARCODE	PE900383
NAME	Log CSI (VSP) STE: 1/Run 1
BASIN	
OFFSHORE?	N
DATA_TYPE	WELL
DATA_SUB_TYPE	WELL_LOG
DESCRIPTION	Log CSI (VSP) STE: 1/Run 1 (1770 - 200m)
REMARKS	
DATE_WRITTEN	15-DEC-1993
DATE_PROCESSED	
DATE_RECEIVED	
RECEIVED_FROM	BHP Petroleum Pty Ltd
WELL_NAME	La Bella-1
CONTRACTOR	Schlumberger
AUTHOR	
ORIGINATOR	BHP Petroleum Pty Ltd
TOP_DEPTH	
BOTTOM_DEPTH	
ROW_CREATED_BY	xls_tb11

(Inserted by DNRE - Vic Govt Mines Dept)

PE600290

This is an enclosure indicator page.
The enclosure PE600290 is enclosed within the container PE900383 at this location in this document.

The enclosure PE600290 has the following characteristics:

ITEM_BARCODE	PE600290
CONTAINER_BARCODE	PE900383
NAME	Log CSI (VSP) STE: 2/Run 2
BASIN	
OFFSHORE?	N
DATA_TYPE	WELL
DATA_SUB_TYPE	WELL_LOG
DESCRIPTION	Log CSI (VSP) STE: 2/Run 2 (2734 - 1520m)
REMARKS	
DATE_WRITTEN	15-DEC-1993
DATE_PROCESSED	
DATE_RECEIVED	
RECEIVED_FROM	BHP Petroleum Pty Ltd
WELL_NAME	La Bella-1
CONTRACTOR	Schlumberger
AUTHOR	
ORIGINATOR	BHP Petroleum Pty Ltd
TOP_DEPTH	
BOTTOM_DEPTH	
ROW_CREATED_BY	xls_tb11

(Inserted by DNRE - Vic Govt Mines Dept)

PE600291

This is an enclosure indicator page.
The enclosure PE600291 is enclosed within the container PE900383 at this location in this document.

The enclosure PE600291 has the following characteristics:

ITEM_BARCODE	= PE600291
CONTAINER_BARCODE	= PE900383
NAME	= Log Drift Corrected Sonic
BASIN	=
OFFSHORE?	= N
DATA_TYPE	= WELL
DATA_SUB_TYPE	= WELL_LOG
DESCRIPTION	= Log Drift Corrected Sonic (2743-620m)
REMARKS	=
DATE_WRITTEN	= 15-DEC-1993
DATE_PROCESSED	=
DATE_RECEIVED	=
RECEIVED_FROM	= BHP Petroleum Pty Ltd
WELL_NAME	= La Bella-1
CONTRACTOR	= Schlumberger
AUTHOR	=
ORIGINATOR	= BHP Petroleum Pty Ltd
TOP_DEPTH	=
BOTTOM_DEPTH	=
ROW_CREATED_BY	= xls_tb11

(Inserted by DNRE - Vic Govt Mines Dept)

PE600288

This is an enclosure indicator page.
The enclosure PE600288 is enclosed within the container PE900383 at this location in this document.

The enclosure PE600288 has the following characteristics:

ITEM_BARCODE	= PE600288
CONTAINER_BARCODE	= PE900383
NAME	= Seismic Calibration log
BASIN	=
OFFSHORE?	= N
DATA_TYPE	= WELL
DATA_SUB_TYPE	= WELL_LOG
DESCRIPTION	= Seismic Calibration log
REMARKS	=
DATE_WRITTEN	= 15-DEC-1993
DATE_PROCESSED	=
DATE_RECEIVED	=
RECEIVED_FROM	= BHP Petroleum Pty Ltd
WELL_NAME	= La Bella-1
CONTRACTOR	= Schlumberger
AUTHOR	=
ORIGINATOR	= BHP Petroleum Pty Ltd
TOP_DEPTH	=
BOTTOM_DEPTH	=
ROW_CREATED_BY	= xls_tb11

(Inserted by DNRE - Vic Govt Mines Dept)

PE900409

This is an enclosure indicator page.
The enclosure PE900409 is enclosed within the container PE900383 at this location in this document.

The enclosure PE900409 has the following characteristics:

ITEM_BARCODE	= PE900409
CONTAINER_BARCODE	= PE900383
NAME	= Geograu
BASIN	=
OFFSHORE?	= N
DATA_TYPE	= WELL
DATA_SUB_TYPE	= SYNTH_SEISMOGRAM
DESCRIPTION	= Geogram
REMARKS	=
DATE_WRITTEN	= 15-DEC-1993
DATE_PROCESSED	=
DATE_RECEIVED	=
RECEIVED_FROM	= BHP Petroleum Pty Ltd
WELL_NAME	= La Bella-1
CONTRACTOR	= Schlumberger
AUTHOR	=
ORIGINATOR	= BHP Petroleum Pty Ltd
TOP_DEPTH	=
BOTTOM_DEPTH	=
ROW_CREATED_BY	= xls_tb11

(Inserted by DNRE - Vic Govt Mines Dept)

PE900411

This is an enclosure indicator page.
The enclosure PE900411 is enclosed within the container PE900383 at this location in this document.

The enclosure PE900411 has the following characteristics:

ITEM_BARCODE	= PE900411
CONTAINER_BARCODE	= PE900383
NAME	= Geograu
BASIN	=
OFFSHORE?	= N
DATA_TYPE	= WELL
DATA_SUB_TYPE	= SYNTH_SEISMOGRAM
DESCRIPTION	= Geogram
REMARKS	=
DATE_WRITTEN	= 15-DEC-1993
DATE_PROCESSED	=
DATE_RECEIVED	=
RECEIVED_FROM	= BHP Petroleum Pty Ltd
WELL_NAME	= La Bella-1
CONTRACTOR	= Schlumberger
AUTHOR	=
ORIGINATOR	= BHP Petroleum Pty Ltd
TOP_DEPTH	=
BOTTOM_DEPTH	=
ROW_CREATED_BY	= xls_tb11

(Inserted by DNRE - Vic Govt Mines Dept)

PE900410

This is an enclosure indicator page.
The enclosure PE900410 is enclosed within the container PE900383 at this location in this document.

The enclosure PE900410 has the following characteristics:

ITEM_BARCODE	= PE900410
CONTAINER_BARCODE	= PE900383
NAME	= Geograu
BASIN	=
OFFSHORE?	= N
DATA_TYPE	= WELL
DATA_SUB_TYPE	= SYNTH_SEISMOGRAM
DESCRIPTION	= Geogram
REMARKS	=
DATE_WRITTEN	= 15-DEC-1993
DATE_PROCESSED	=
DATE_RECEIVED	=
RECEIVED_FROM	= BHP Petroleum Pty Ltd
WELL_NAME	= La Bella-1
CONTRACTOR	= Schlumberger
AUTHOR	=
ORIGINATOR	= BHP Petroleum Pty Ltd
TOP_DEPTH	=
BOTTOM_DEPTH	=
ROW_CREATED_BY	= xls_tb11

(Inserted by DNRE - Vic Govt Mines Dept)

PE900391

This is an enclosure indicator page.
The enclosure PE900391 is enclosed within the container PE900383 at this location in this document.

The enclosure PE900391 has the following characteristics:

ITEM_BARCODE	= PE900391
CONTAINER_BARCODE	= PE900383
NAME	= VSP Plot 1
BASIN	=
OFFSHORE?	= N
DATA_TYPE	= WELL
DATA_SUB_TYPE	= VELOCITY_CHART
DESCRIPTION	= Vertical Seismic Profile Plot 1
REMARKS	=
DATE_WRITTEN	= 15-DEC-1993
DATE_PROCESSED	=
DATE_RECEIVED	=
RECEIVED_FROM	= BHP Petroleum Pty Ltd
WELL_NAME	= La Bella-1
CONTRACTOR	= Schlumberger
AUTHOR	=
ORIGINATOR	= BHP Petroleum Pty Ltd
TOP_DEPTH	=
BOTTOM_DEPTH	=
ROW_CREATED_BY	= xls_tb11

(Inserted by DNRE - Vic Govt Mines Dept)

PE900384

This is an enclosure indicator page.
The enclosure PE900384 is enclosed within the container PE900383 at this location in this document.

The enclosure PE900384 has the following characteristics:

ITEM_BARCODE	= PE900384
CONTAINER_BARCODE	= PE900383
NAME	= Vertical Sesmic Profile Plot 2
BASIN	=
OFFSHORE?	= N
DATA_TYPE	= WELL
DATA_SUB_TYPE	= VELOCITY_CHART
DESCRIPTION	= Vertical Sesmic Profile Plot 2
REMARKS	=
DATE_WRITTEN	= 15-DEC-1993
DATE_PROCESSED	=
DATE_RECEIVED	=
RECEIVED_FROM	= BHP Petroleum Pty Ltd
WELL_NAME	= La Bella-1
CONTRACTOR	= Schlumberger
AUTHOR	=
ORIGINATOR	= BHP Petroleum Pty Ltd
TOP_DEPTH	=
BOTTOM_DEPTH	=
ROW_CREATED_BY	= xls_tb11

(Inserted by DNRE - Vic Govt Mines Dept)

PE900385

This is an enclosure indicator page.
The enclosure PE900385 is enclosed within the container PE900383 at this location in this document.

The enclosure PE900385 has the following characteristics:

ITEM_BARCODE	= PE900385
CONTAINER_BARCODE	= PE900383
NAME	= Vertical Sesmic Profile Plot 3
BASIN	=
OFFSHORE?	= N
DATA_TYPE	= WELL
DATA_SUB_TYPE	= VELOCITY_CHART
DESCRIPTION	= Vertical Sesmic Profile Plot 3
REMARKS	=
DATE_WRITTEN	= 15-DEC-1993
DATE_PROCESSED	=
DATE_RECEIVED	=
RECEIVED_FROM	= BHP Petroleum Pty Ltd
WELL_NAME	= La Bella-1
CONTRACTOR	= Schlumberger
AUTHOR	=
ORIGINATOR	= BHP Petroleum Pty Ltd
TOP_DEPTH	=
BOTTOM_DEPTH	=
ROW_CREATED_BY	= xls_tb11

(Inserted by DNRE - Vic Govt Mines Dept)

PE900386

This is an enclosure indicator page.
The enclosure PE900386 is enclosed within the container PE900383 at this location in this document.

The enclosure PE900386 has the following characteristics:

ITEM_BARCODE	= PE900386
CONTAINER_BARCODE	= PE900383
NAME	= Vertical Sesmic Profile Plot 4
BASIN	=
OFFSHORE?	= N
DATA_TYPE	= WELL
DATA_SUB_TYPE	= VELOCITY_CHART
DESCRIPTION	= Vertical Sesmic Profile Plot 4
REMARKS	=
DATE_WRITTEN	= 15-DEC-1993
DATE_PROCESSED	=
DATE_RECEIVED	=
RECEIVED_FROM	= BHP Petroleum Pty Ltd
WELL_NAME	= La Bella-1
CONTRACTOR	= Schlumberger
AUTHOR	=
ORIGINATOR	= BHP Petroleum Pty Ltd
TOP_DEPTH	=
BOTTOM_DEPTH	=
ROW_CREATED_BY	= xls_tb11

(Inserted by DNRE - Vic Govt Mines Dept)

PE900387

This is an enclosure indicator page.
The enclosure PE900387 is enclosed within the container PE900383 at this location in this document.

The enclosure PE900387 has the following characteristics:

ITEM_BARCODE	= PE900387
CONTAINER_BARCODE	= PE900383
NAME	= Vertical Sesmic Profile Plot 5
BASIN	=
OFFSHORE?	= N
DATA_TYPE	= WELL
DATA_SUB_TYPE	= VELOCITY_CHART
DESCRIPTION	= Vertical Sesmic Profile Plot 5
REMARKS	=
DATE_WRITTEN	= 15-DEC-1993
DATE_PROCESSED	=
DATE_RECEIVED	=
RECEIVED_FROM	= BHP Petroleum Pty Ltd
WELL_NAME	= La Bella-1
CONTRACTOR	= Schlumberger
AUTHOR	=
ORIGINATOR	= BHP Petroleum Pty Ltd
TOP_DEPTH	=
BOTTOM_DEPTH	=
ROW_CREATED_BY	= xls_tb11

(Inserted by DNRE - Vic Govt Mines Dept)

PE900388

This is an enclosure indicator page.
The enclosure PE900388 is enclosed within the container PE900383 at this location in this document.

The enclosure PE900388 has the following characteristics:

ITEM_BARCODE	= PE900388
CONTAINER_BARCODE	= PE900383
NAME	= Vertical Sesmic Profile Plot 6
BASIN	=
OFFSHORE?	= N
DATA_TYPE	= WELL
DATA_SUB_TYPE	= VELOCITY_CHART
DESCRIPTION	= Vertical Sesmic Profile Plot 6
REMARKS	=
DATE_WRITTEN	= 15-DEC-1993
DATE_PROCESSED	=
DATE_RECEIVED	=
RECEIVED_FROM	= BHP Petroleum Pty Ltd
WELL_NAME	= La Bella-1
CONTRACTOR	= Schlumberger
AUTHOR	=
ORIGINATOR	= BHP Petroleum Pty Ltd
TOP_DEPTH	=
BOTTOM_DEPTH	=
ROW_CREATED_BY	= xls_tb11

(Inserted by DNRE - Vic Govt Mines Dept)

PE900389

This is an enclosure indicator page.
The enclosure PE900389 is enclosed within the container PE900383 at this location in this document.

The enclosure PE900389 has the following characteristics:

ITEM_BARCODE	= PE900389
CONTAINER_BARCODE	= PE900383
NAME	= Vertical Sesmic Profile Plot 7
BASIN	=
OFFSHORE?	= N
DATA_TYPE	= WELL
DATA_SUB_TYPE	= VELOCITY_CHART
DESCRIPTION	= Vertical Sesmic Profile Plot 7
REMARKS	=
DATE_WRITTEN	= 15-DEC-1993
DATE_PROCESSED	=
DATE_RECEIVED	=
RECEIVED_FROM	= BHP Petroleum Pty Ltd
WELL_NAME	= La Bella-1
CONTRACTOR	= Schlumberger
AUTHOR	=
ORIGINATOR	= BHP Petroleum Pty Ltd
TOP_DEPTH	=
BOTTOM_DEPTH	=
ROW_CREATED_BY	= xls_tb11

(Inserted by DNRE - Vic Govt Mines Dept)

PE900390

This is an enclosure indicator page.
The enclosure PE900390 is enclosed within the container PE900383 at this location in this document.

The enclosure PE900390 has the following characteristics:

ITEM_BARCODE	= PE900390
CONTAINER_BARCODE	= PE900383
NAME	= Vertical Sesmic Profile Plot 8
BASIN	=
OFFSHORE?	= N
DATA_TYPE	= WELL
DATA_SUB_TYPE	= VELOCITY_CHART
DESCRIPTION	= Vertical Sesmic Profile Plot 8
REMARKS	=
DATE_WRITTEN	= 15-DEC-1993
DATE_PROCESSED	=
DATE_RECEIVED	=
RECEIVED_FROM	= BHP Petroleum Pty Ltd
WELL_NAME	= La Bella-1
CONTRACTOR	= Schlumberger
AUTHOR	=
ORIGINATOR	= BHP Petroleum Pty Ltd
TOP_DEPTH	=
BOTTOM_DEPTH	=
ROW_CREATED_BY	= xls_tb11

(Inserted by DNRE - Vic Govt Mines Dept)

GEOGRAM

Drift Corrected Sonic
Seismic Calibration Log
25 hz zero phase Geogram
35 hz zero phase Geogram
45 hz zero phase Geogram

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 6	Waveshaping Deconvolution - Corridor Stack AGC
Plot 7	VSP and Geogram Composite - normal polarity 10 cm/sec 10-60 hz
Plot 8	VSP and Geogram Composite - reverse polarity 10 cm/sec 10-60 hz