

PETROLEUM DIVISION



ERIC THE RED_1
VIC/P31
WELL COMPLETION REPORT
BASIC DATA (VOLUME 2)

15 078 003

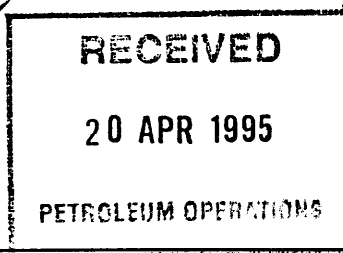
15 DEC 1993

PETROLEUM DIVISION

7

Tony + Kern!
Please file in ERIC The RED
Completion Report.

Km/DT



1

Otway Basin, Vic/P31

~~Eric The Red~~

~~V.M.~~
21-4-95

Well Completion Report - Interpretative Volume

1 WELL INDEX SHEET

COMPANY:	BHP Petroleum Pty Ltd	WELL:	Eric The Red - 1	TYPE:	W/cat
SPUDDED:	0700 hrs 17th Feb 1993	BASIN:	Otway		
COMPLETED:	0330 hrs 6th Mar 1993	TENEMENT:	VIC/P31		
TD:	1875 mRT	ELEV. W. D.:	100 mRT	K. B.:	25 m
LOCATION:	Lat. 39deg 00min 45.44sec South	Long.	143deg 10min 51.45sec East		
STATUS:	P & A	1st FLANGE:	30" @ 137 m		

FORMATION/ LITHOLOGIC SUMMARY/ MARKER	TOPS(m)		SEISMIC	
	DRILL	SUB SEA	TWT	REMARKS
No returns	100-364			
Tertiary	100	75		Fossiliferous calcarenite with interbedded marl.
Nirranda Group	370	345		Sandstones with minor siltstones.
Wangerrip Group	413	388		Sandstones with minor claystone and siltstones.
Sherbrook Group	537	512	545	Interbedded siltstones, sandstones and claystones with calcite cement, pyrite nodules and trace glauconite.
Shipwreck Group Upper	1043	1018	1000	Interbedded sandstones, siltstones and claystones with minor coal at base.
Lower	1436	1411	1080	Interbedded sandstones and claystones with minor coal. Conglomerate near the base.
Otway Group Eumeralla Formation	1747	1722	1310	Interbedded sandstones and claystones with minor siltstones.

LOGS:

SUITE 1

L-MSFL-SDT-GR-SP-CAL-AMS
VSP
CST-GR (30)

SUITE 2

DLL-MSFL-SDT-GR-CAL-SP-AMS
FMS-LDL-CNL-GR-AMS
VSP
RFT
CST-GR (60)

SWC: SHOT 90 REC 74

DITCH SAMPLES: 370 - 1875 m

STORED: Kestrel Management, Mt. Waverley, Vic.

CORES: No cores cut.

CASING/TUBING SIZE	30"	13.375"	9.625"
LANDED AT (m)	137	355	1007
CEMENT (sacks)	456	500	254

TEST RESULTS, FLUID ANALYSIS, LOST CIRCULATION (INTERVAL, CAUSES) PLUG TOPS, REMARKS

Plug No. 1 was set from 1100-900 m; 270 sacks cement

Plug No. 2 was set from 174-124 m; 120 sacks cement

BA



**B.H.P. PETROLEUM
WELL SEISMIC PROCESSING REPORT**

ERIC THE RED # 1

FIELD : WILDCAT
COUNTRY : AUSTRALIA
COORDINATES : 039 00' 45.44" S
: 143 10' 51.45" E

DATE OF SURVEY : 27-FEB-1992

REFERENCE NO. : VSP :560879
: GEOGRAM:560880

INTERVAL : 1848.0 - 373.0 M

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1. Introduction

A vertical seismic profile was recorded over two suites for the ERIC THE RED # 1 well on the 21st and the 27th of February 1992. 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 (CSAT). A 3 x 150 cu. in. sleeve gun array was used as the source and fired at a pressure of 110 bars. It was positioned 7 meters below mean sea level. Recording was made on the Schlumberger MAXIS Unit , using DLIS format and provided on DAT tape.

Table 1. Survey Parameters

Elevation of KB	25.30 metres AMSL
Elevation of DF	25.00 metres AMSL
Elevation of GL	-75.00 metres AMSL
Total Depth	1848 metres below KB
Energy Source	Sleeve guns
Source Offset	47 metres
Source Depth	7 metres below MSL
Reference Sensor	Hydrophone
Hydrophone Offset	47 metres
Hydrophone Depth	14 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 $\mu\text{sec/ft}$.

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:

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

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

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

3.2 Open Hole Logs

The sonic log has been recorded from 1848.0 to 373.0 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 water velocity of 1480 m/sec.

3.4 Sonic Calibration Results

The top of the sonic log (373.0 metres below KB) is chosen as the origin for the calibration drift curve.

The drift curve is the correction imposed upon the sonic log. The adjusted sonic curve is considered to be the best result using the available data. A list of shifts used on the sonic data is given 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 milliseconds). Reflection coefficients are then computed using:

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

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.

The data quality is excellent with the vertical component stacks displaying a consistent signature and a high signal to noise ratio. The horizontal components display some tube wave energy.

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 & 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 7 and 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: *tim0*, the transit time picked from the stacked data by subtracting the surface sensor first break time from the downhole sensor first break time.
5. Vertical travel time SRC to GEO: *timv*, is corrected for source to hydrophone distance and for source offset.
6. Vertical travel time SRD to GEO: *shtm*, is *timv* corrected for the vertical distance between source and datum.
7. Average velocity SRD to GEO: the average seismic velocity from datum to the corresponding checkshot level, $\frac{dsrd}{shtm}$.
8. Delta depth between shots: $\Delta depth$, the vertical distance between each level.
9. Delta time between shots: $\Delta time$, the difference in vertical travel time (*shtm*), between each level.
10. Interval velocity between shots: the average seismic velocity between each level, $\frac{\Delta depth}{\Delta time}$.

A2 Drift Computation Report

1. Level number: the level number starting from the top level (includes any imposed shots).
2. Vertical depth from KB: the depth in 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 from 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.

$$v_{rms} = \sqrt{\frac{\sum_1^n v_i^2 t_i}{\sum_1^n t_i}}$$

where v_i is the velocity between each 2 milliseecs interval.

6. First normal moveout: the correction time in milliseecs 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:

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

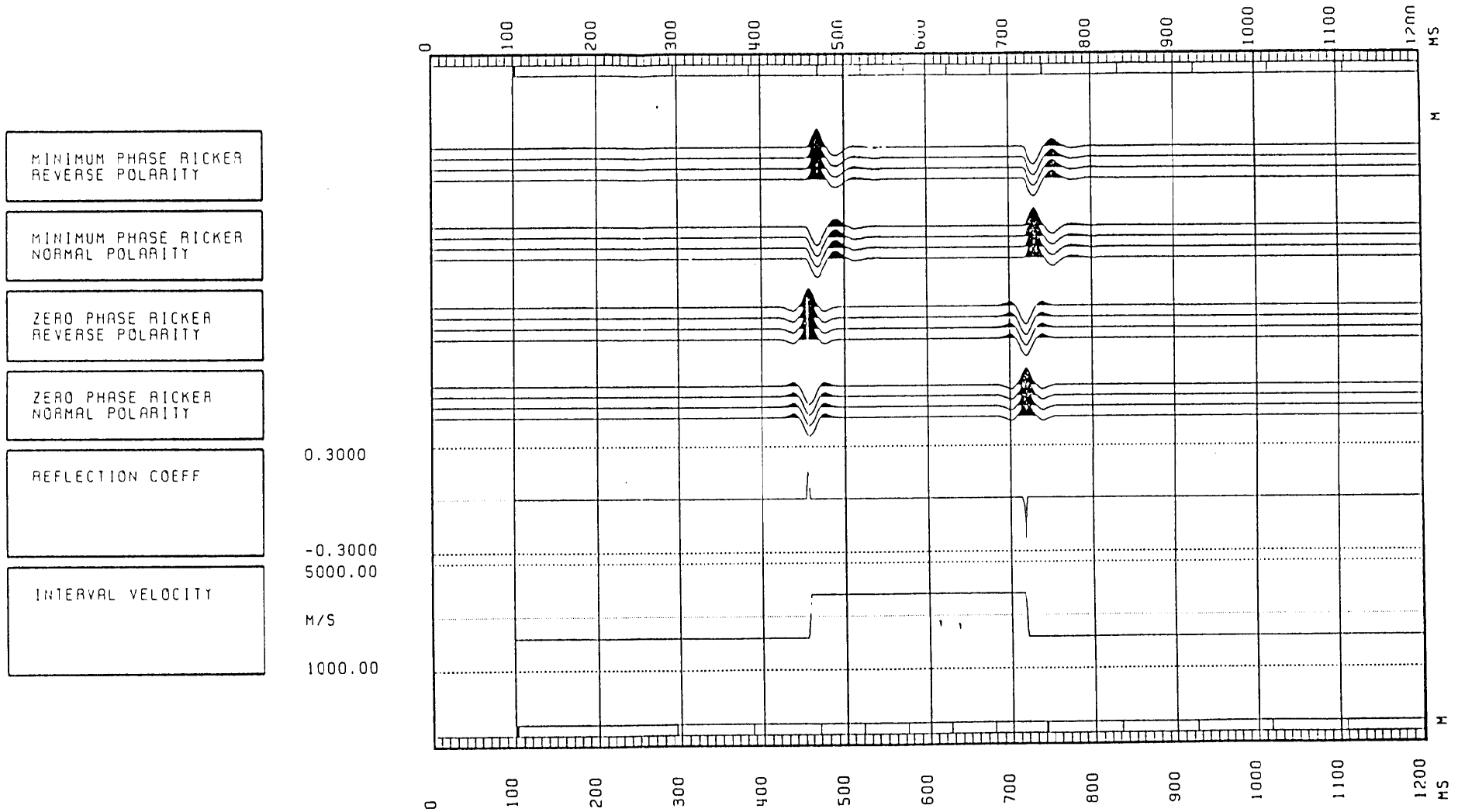
7. Second normal moveout: the correction time in milliseecs to be applied to the two way travel time for a specified moveout distance (default = 4500 feet).

8. Third normal moveout: the correction time in milliseecs 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 milliseecs two way time, (1 milliseec 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



ANALYST: Z.KATELIS

10-MAR-93 12:44:11

PROGRAM: GSHOT 007.E08

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*  
*  
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*  
* SCHLUMBERGER *  
*  
*****
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GEOPHYSICAL AIRGUN REPORT

COMPANY : BHP PETROLEUM
WELL : ERIC THE RED-1
FIELD : WILDCAT
COUNTRY : P.N.G.
REFERENCE: SYJ-560880

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
 DEWVEL - 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	:	-75.0000	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	-7.00	36.00	30.21	-14.00	36.00	30.21

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

	MD @ KB M	VD @ KB M	VD @ SRD M	E-W COORD M	N-S COORD M
1	100.00	100.00	75.00	0	0
2	175.00	175.00	150.00	0	0
3	225.00	225.00	200.00	0	0
4	275.00	275.00	250.00	0	0
5	325.00	325.00	300.00	0	0
6	347.00	347.00	322.00	0	0
7	373.00	373.00	348.00	0	0
8	385.00	385.00	360.00	0	0
9	398.00	398.00	373.00	0	0
10	415.00	415.00	390.00	0	0
11	447.00	447.00	422.00	0	0
12	475.00	475.00	450.00	0	0
13	497.00	497.00	472.00	0	0
14	518.00	518.00	493.00	0	0
15	540.00	540.00	515.00	0	0
16	560.00	560.00	535.00	0	0
17	580.00	580.00	555.00	0	0
18	600.00	600.00	575.00	0	0
19	620.00	620.00	595.00	0	0
20	640.00	640.00	615.00	0	0
21	660.00	660.00	635.00	0	0
22	680.00	680.00	655.00	0	0
23	700.00	700.00	675.00	0	0
24	720.00	720.00	695.00	0	0
25	740.00	740.00	715.00	0	0
26	762.00	762.00	737.00	0	0
27	780.00	780.00	755.00	0	0
28	800.00	800.00	775.00	0	0
29	820.00	820.00	795.00	0	0
30	840.00	840.00	815.00	0	0
31	860.00	860.00	835.00	0	0
32	880.00	880.00	855.00	0	0
33	900.00	900.00	875.00	0	0

34	920.00	920.00	895.00	0	0
35	940.00	940.00	915.00	0	0
36	963.00	963.00	938.00	0	0
37	980.00	980.00	955.00	0	0
38	1005.00	1005.00	980.00	0	0
39	1030.00	1030.00	1005.00	0	0
40	1040.00	1040.00	1015.00	0	0
41	1060.00	1060.00	1035.00	0	0
42	1080.00	1080.00	1055.00	0	0
43	1100.00	1100.00	1075.00	0	0
44	1123.00	1123.00	1098.00	0	0
45	1145.00	1145.00	1120.00	0	0
46	1163.00	1163.00	1138.00	0	0
47	1180.00	1180.00	1155.00	0	0
48	1200.00	1200.00	1175.00	0	0
49	1220.00	1220.00	1195.00	0	0
50	1240.00	1240.00	1215.00	0	0
51	1260.00	1260.00	1235.00	0	0
52	1280.00	1280.00	1255.00	0	0
53	1304.00	1304.00	1279.00	0	0
54	1316.00	1316.00	1291.00	0	0
55	1331.00	1331.00	1306.00	0	0
56	1355.00	1355.00	1330.00	0	0
57	1380.00	1380.00	1355.00	0	0
58	1400.00	1400.00	1375.00	0	0
59	1420.00	1420.00	1395.00	0	0
60	1440.00	1440.00	1415.00	0	0
61	1460.00	1460.00	1435.00	0	0
62	1480.00	1480.00	1455.00	0	0
63	1505.00	1505.00	1480.00	0	0
64	1525.00	1525.00	1500.00	0	0
65	1544.00	1544.00	1519.00	0	0
66	1560.00	1560.00	1535.00	0	0
67	1580.00	1580.00	1555.00	0	0
68	1600.00	1600.00	1575.00	0	0
69	1620.00	1620.00	1595.00	0	0
70	1640.00	1640.00	1615.00	0	0
71	1660.00	1660.00	1635.00	0	0
72	1680.00	1680.00	1655.00	0	0
73	1702.00	1702.00	1677.00	0	0
74	1720.00	1720.00	1695.00	0	0
75	1743.00	1743.00	1718.00	0	0
76	1760.00	1760.00	1735.00	0	0
77	1780.00	1780.00	1755.00	0	0
78	1800.00	1800.00	1775.00	0	0
79	1820.00	1820.00	1795.00	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	100.00	75.00	0	51.12	45.94	50.67	1480			
2	175.00	150.00	75.00	85.82	86.02	90.75	1653	75.00	40.08	1871
3	225.00	200.00	125.00	112.85	114.24	118.97	1681	50.00	28.22	1772
4	275.00	250.00	175.00	140.23	142.32	147.05	1700	50.00	28.08	1781
5	325.00	300.00	225.00	164.85	167.44	172.17	1742	50.00	25.12	1991
6	347.00	322.00	247.00	174.91	177.67	182.40	1765	22.00	10.23	2150
7	373.00	348.00	273.00	174.91	177.67	182.40	1765	26.00	12.44	2090
8	385.00	360.00	285.00	187.18	190.11	194.84	1786	12.00	4.59	2615
9	398.00	373.00	298.00	191.69	194.70	199.43	1805	13.00	6.48	2007
10	415.00	390.00	315.00	198.10	201.18	205.91	1811	17.00	7.37	2307
11	447.00	422.00	347.00	205.38	208.55	213.28	1829	32.00	14.92	2145
12	475.00	450.00	375.00	220.16	223.46	228.19	1849	28.00	11.66	2402
13	497.00	472.00	397.00	231.71	235.12	239.85	1876	22.00	8.51	2586
14	518.00	493.00	418.00	240.14	243.63	248.36	1900	21.00	8.61	2438
15	540.00	515.00	440.00	248.69	252.24	256.97	1918	22.00	8.77	2508
16	560.00	535.00	460.00	257.40	261.01	265.74	1938	20.00	8.49	2356
17	580.00	555.00	480.00	265.84	269.50	274.23	1951	20.00	8.12	2464
18	600.00	580.00	500.00	273.91	277.62	282.35	1966	20.00	8.12	2464
19	620.00	595.00	520.00	281.42	285.18	289.90	1983	20.00	7.55	2647
20	640.00	615.00	540.00	289.86	293.65	298.38	1994	20.00	8.48	2359
21	660.00	635.00	560.00	298.58	293.65	298.38	1994	20.00	8.75	2285
22	680.00	655.00	580.00	306.33	302.41	307.14	2002	20.00	7.78	2569
23	700.00	675.00	600.00	306.33	310.19	314.92	2016	20.00	8.78	2278
24	720.00	695.00	620.00	315.08	318.97	323.70	2023	20.00	8.78	2278
				322.89	326.81	331.54	2036	20.00	7.84	2551
				330.95	334.90	339.63	2046	20.00	8.09	2473

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	7.60	2633
25	740.00	715.00	640.00	338.52	342.50	347.23	2059	22.00	8.66	2541
26	762.00	737.00	662.00	347.15	351.15	355.88	2071	18.00	7.07	2546
27	780.00	755.00	680.00	354.20	358.22	362.95	2080	20.00	7.73	2587
28	800.00	775.00	700.00	361.91	365.96	370.68	2091	20.00	7.59	2635
29	820.00	795.00	720.00	369.48	373.55	378.28	2102	20.00	7.87	2542
30	840.00	815.00	740.00	377.33	381.41	386.14	2111	20.00	7.97	2510
31	860.00	835.00	760.00	385.28	389.38	394.11	2119	20.00	8.23	2431
32	880.00	855.00	780.00	393.49	397.61	402.34	2125	20.00	7.79	2569
33	900.00	875.00	800.00	401.26	405.40	410.13	2133	20.00	7.50	2668
34	920.00	895.00	820.00	408.74	412.89	417.62	2143	20.00	7.31	2738
35	940.00	915.00	840.00	416.03	420.20	424.93	2153	23.00	8.34	2759
36	963.00	938.00	863.00	424.35	428.53	433.26	2165	17.00	6.42	2647
37	980.00	955.00	880.00	430.76	434.96	439.69	2172	25.00	9.82	2547
38	1005.00	980.00	905.00	440.56	444.77	449.50	2180	25.00	11.38	2196
39	1030.00	1005.00	930.00	451.93	456.15	460.88	2181	10.00	4.02	2490
40	1040.00	1015.00	940.00	455.94	460.17	464.90	2183	20.00	6.77	2953
41	1060.00	1035.00	960.00	462.70	466.94	471.67	2194	20.00	7.41	2699
42	1080.00	1055.00	980.00	470.10	474.35	479.08	2202	20.00	6.03	3316
43	1100.00	1075.00	1000.00	476.12	480.38	485.11	2216	23.00	9.01	2552
44	1123.00	1098.00	1023.00	485.12	489.40	494.13	2222	22.00	6.76	3254
45	1145.00	1120.00	1045.00	491.87	496.16	500.89	2236	18.00	6.22	2895
46	1163.00	1138.00	1063.00	498.08	502.38	507.11	2244	17.00	5.93	2868
47	1180.00	1155.00	1080.00	504.00	508.30	513.03	2251	20.00	6.13	3263
48	1200.00	1175.00	1100.00	510.12	514.43	519.16	2263			

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	1220.00	1195.00	1120.00	516.12	520.44	525.17	2275	20.00	6.01	3328
50	1240.00	1215.00	1140.00	522.45	526.78	531.51	2286	20.00	6.34	3155
51	1260.00	1235.00	1160.00	529.36	533.70	538.43	2294	20.00	6.92	2891
52	1280.00	1255.00	1180.00	536.04	540.39	545.12	2302	20.00	6.69	2991
53	1304.00	1279.00	1204.00	543.46	547.82	552.55	2315	24.00	7.43	3230
54	1316.00	1291.00	1216.00	547.73	552.09	556.82	2319	12.00	4.27	2808
55	1331.00	1306.00	1231.00	552.88	557.25	561.97	2324	15.00	5.16	2910
56	1355.00	1330.00	1255.00	560.57	564.94	569.67	2335	24.00	7.70	3118
57	1380.00	1355.00	1280.00	569.39	573.77	578.50	2342	25.00	8.83	2832
58	1400.00	1375.00	1300.00	574.05	578.44	583.17	2358	20.00	4.67	4285
59	1420.00	1395.00	1320.00	580.63	585.02	589.75	2365	20.00	6.59	3037
60	1440.00	1415.00	1340.00	587.09	591.49	596.22	2373	20.00	6.47	3093
61	1460.00	1435.00	1360.00	593.61	598.02	602.75	2381	20.00	6.53	3065
62	1480.00	1455.00	1380.00	600.06	604.47	609.20	2388	20.00	6.46	3098
63	1505.00	1480.00	1405.00	606.99	611.41	616.14	2402	25.00	6.94	3604
64	1525.00	1500.00	1425.00	612.64	617.06	621.79	2412	20.00	5.66	3536
65	1544.00	1519.00	1444.00	618.11	622.54	627.27	2422	19.00	5.47	3470
66	1560.00	1535.00	1460.00	622.89	627.32	632.05	2429	16.00	4.78	3345
67	1580.00	1555.00	1480.00	627.56	632.00	636.73	2442	20.00	4.68	4278
68	1600.00	1575.00	1500.00	633.70	638.14	642.87	2450	20.00	6.14	3255
69	1620.00	1595.00	1520.00	639.35	643.80	648.53	2459	20.00	5.65	3537
70	1640.00	1615.00	1540.00	644.74	649.19	653.92	2470	20.00	5.39	3707
71	1660.00	1635.00	1560.00	649.47	653.93	658.66	2482	20.00	4.73	4224
72	1680.00	1655.00	1580.00	654.65	659.11	663.84	2493	20.00	5.18	3858

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
73	1702.00	1677.00	1602.00	661.19	665.66	670.39	2502	22.00	6.54	3362
74	1720.00	1695.00	1620.00	666.09	670.56	675.29	2510	18.00	4.90	3671
75	1743.00	1718.00	1643.00	672.17	676.64	681.37	2521	23.00	6.08	3780
76	1760.00	1735.00	1660.00	676.33	680.81	685.54	2531	17.00	4.16	4083
77	1780.00	1755.00	1680.00	681.86	686.34	691.07	2540	20.00	5.53	3614
78	1800.00	1775.00	1700.00	687.98	692.47	697.19	2546	20.00	6.12	3266
79	1820.00	1795.00	1720.00	692.99	697.48	702.21	2556	20.00	5.01	3989

ANALYST: Z.KATELIS

10-MAR-93 12:45:37

PROGRAM: GDRIFT 007.E09

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*          SCHLUMBERGER              *  
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DRIFT COMPUTATION REPORT

COMPANY : BHP PETROLEUM
WELL : ERIC THE RED-1
FIELD : WILDCAT
COUNTRY : P.N.G.
REFERENCE: SYJ-560880

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

ZONE

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

SAMPLED

SHOT - Shot number
 DKB - Measured Depth from Kelly-Bushing
 DSRD - Depth from SRD
 DGL - Vertical Depth Relative to Ground Level (User's Reference)
 SHTM - Shot time (WST)
 RAWSONIC - Raw Sonic (WST)
 SHDR - Drift at Shot or Knee
 BLSH - Block Shift between Shots or Knee

(GLOBAL PARAMETERS)

(VALUE)

ELEV OF KB AB. MSL (WST)	KB	:	25.0000	M
ELEV OF SRD AB. MSL (WST)	SRD	:	0	M
Elevation of Kelly Bushi	EKB	:	25.0000	M
ELEV OF GL AB. SRD (WST)	GL	:	-75.0000	M
TOP OF ZONE PROCD (WST)	XSTART	:	0	M
BOT OF ZONE PROCD (WST)	XSTOP	:	0	M
RAW SONIC CH NAME (WST)	GAD001	:	DT.ATT.002.FLP.*	
UNIFORM DENSITY VALUE	UNFDEN	:	2.30000	G/C3

(ZONED PARAMETERS)

(VALUE)

(LIMITS)

LAYER OPTION FLAG DENS	LOFDEN	:	1.000000	30479.7	-	0	
USER SUPPLIED DENSITY DA	LAYDEN	:	0	G/C3	0	-	0

LEVEL NUMBER	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	VERTICAL DEPTH FROM GL M	VERTICAL TRAVEL TIME SRD/GEO MS	INTEGRATED RAW SONIC TIME MS	COMPUTED DRIFT AT LEVEL MS	COMPUTED BLK-SHFT CORRECTION US/F
							0
1	100.00	75.00	0	50.67	50.67	0	0
2	175.00	150.00	75.00	90.75	90.75	0	0
3	225.00	200.00	125.00	118.97	118.97	0	0
4	275.00	250.00	175.00	147.05	147.05	0	0
5	325.00	300.00	225.00	172.17	172.17	0	0
6	347.00	322.00	247.00	182.40	182.40	0	0
7	373.00	348.00	273.00	194.84	194.84	0	0
8	385.00	360.00	285.00	199.43	200.60	-1.17	-29.61
9	398.00	373.00	298.00	205.91	206.83	-.92	5.77
10	415.00	390.00	315.00	213.28	214.63	-1.35	-7.76
11	447.00	422.00	347.00	228.19	229.35	-1.16	1.84
12	475.00	450.00	375.00	239.85	241.75	-1.90	-8.07
13	497.00	472.00	397.00	248.36	250.25	-1.90	.07
14	518.00	493.00	418.00	256.97	259.46	-2.48	-8.51
15	540.00	515.00	440.00	265.74	268.70	-2.96	-6.59
16	560.00	535.00	460.00	274.23	276.83	-2.59	5.57
17	580.00	555.00	480.00	282.35	284.59	-2.24	5.45
18	600.00	575.00	500.00	289.90	292.27	-2.37	-2.00
19	620.00	595.00	520.00	298.38	301.35	-2.97	-9.21
20	640.00	615.00	540.00	307.14	310.09	-2.95	.30
21	660.00	635.00	560.00	314.92	318.07	-3.14	-2.94
22	680.00	655.00	580.00	323.70	326.68	-2.98	2.56
23	700.00	675.00	600.00	331.54	334.94	-3.40	-6.51
24	720.00	695.00	620.00	339.63	342.71	-3.08	4.92

LEVEL NUMBER	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	VERTICAL DEPTH FROM GL M	VERTICAL TRAVEL TIME SRD/GEO MS	INTEGRATED RAW SONIC TIME MS	COMPUTED DRIFT AT LEVEL MS	COMPUTED BLK-SHFT CORRECTION US/F
							- .57
25	740.00	715.00	640.00	347.23	350.34	-3.12	1.67
26	762.00	737.00	662.00	355.88	358.88	-3.00	-3.43
27	780.00	755.00	680.00	362.95	366.15	-3.20	4.39
28	800.00	775.00	700.00	370.68	373.60	-2.91	-2.39
29	820.00	795.00	720.00	378.28	381.34	-3.07	1.17
30	840.00	815.00	740.00	386.14	389.14	-2.99	-5.72
31	860.00	835.00	760.00	394.11	397.48	-3.37	3.99
32	880.00	855.00	780.00	402.34	405.44	-3.11	- .41
33	900.00	875.00	800.00	410.13	413.26	-3.13	-3.14
34	920.00	895.00	820.00	417.62	420.96	-3.34	-5.08
35	940.00	915.00	840.00	424.93	428.60	-3.67	-4.11
36	963.00	938.00	863.00	433.26	437.25	-3.98	.78
37	980.00	955.00	880.00	439.69	443.62	-3.94	5.55
38	1005.00	980.00	905.00	449.50	452.98	-3.48	17.28
39	1030.00	1005.00	930.00	460.88	462.95	-2.07	7.07
40	1040.00	1015.00	940.00	464.90	466.73	-1.83	-11.92
41	1060.00	1035.00	960.00	471.67	474.29	-2.62	4.43
42	1080.00	1055.00	980.00	479.08	481.41	-2.33	-10.17
43	1100.00	1075.00	1000.00	485.11	488.11	-2.99	9.72
44	1123.00	1098.00	1023.00	494.13	496.39	-2.26	-14.31
45	1145.00	1120.00	1045.00	500.89	504.18	-3.29	-3.64
46	1163.00	1138.00	1063.00	507.11	510.61	-3.51	1.63
47	1180.00	1155.00	1080.00	513.03	516.45	-3.42	-6.84
48	1200.00	1175.00	1100.00	519.16	523.03	-3.86	

LEVEL NUMBER	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	VERTICAL DEPTH FROM GL M	VERTICAL TRAVEL TIME SRD/GEO MS	INTEGRATED RAW SONIC TIME MS	COMPUTED DRIFT AT LEVEL MS	COMPUTED BLK-SHFT CORRECTION US/F
49	1220.00	1195.00	1120.00	525.17	529.45	-4.28	-6.32
50	1240.00	1215.00	1140.00	531.51	535.80	-4.29	-.10
51	1260.00	1235.00	1160.00	538.43	542.46	-4.03	3.94
52	1280.00	1255.00	1180.00	545.12	549.49	-4.37	-5.22
53	1304.00	1279.00	1204.00	552.55	557.05	-4.51	-1.74
54	1316.00	1291.00	1216.00	556.82	560.88	-4.06	11.32
55	1331.00	1306.00	1231.00	561.97	566.07	-4.10	-.69
56	1355.00	1330.00	1255.00	569.67	574.23	-4.56	-5.89
57	1380.00	1355.00	1280.00	578.50	582.37	-3.87	8.38
58	1400.00	1375.00	1300.00	583.17	588.70	-5.54	-25.35
59	1420.00	1395.00	1320.00	589.75	595.31	-5.55	-.25
60	1440.00	1415.00	1340.00	596.22	601.93	-5.71	-2.45
61	1460.00	1435.00	1360.00	602.75	608.46	-5.71	.03
62	1480.00	1455.00	1380.00	609.20	614.82	-5.62	1.35
63	1505.00	1480.00	1405.00	616.14	622.24	-6.10	-5.87
64	1525.00	1500.00	1425.00	621.79	628.56	-6.76	-10.03
65	1544.00	1519.00	1444.00	627.27	634.06	-6.79	-.45
66	1560.00	1535.00	1460.00	632.05	638.53	-6.47	6.06
67	1580.00	1555.00	1480.00	636.73	644.17	-7.44	-14.73
68	1600.00	1575.00	1500.00	642.87	649.79	-6.92	7.89
69	1620.00	1595.00	1520.00	648.53	655.62	-7.09	-2.63
70	1640.00	1615.00	1540.00	653.92	661.40	-7.48	-5.84
71	1660.00	1635.00	1560.00	658.66	666.72	-8.06	-8.93
72	1680.00	1655.00	1580.00	663.84	672.35	-8.51	-6.82

LEVEL NUMBER	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	VERTICAL DEPTH FROM GL M	VERTICAL TRAVEL TIME SRD/GEO MS	INTEGRATED RAW SONIC TIME MS	COMPUTED DRIFT AT LEVEL MS	COMPUTED BLK-SHFT CORRECTION US/F
							-1.57
73	1702.00	1677.00	1602.00	670.39	679.01	-8.62	-6.64
74	1720.00	1695.00	1620.00	675.29	684.31	-9.02	.09
75	1743.00	1718.00	1643.00	681.37	690.38	-9.01	-14.23
76	1760.00	1735.00	1660.00	685.54	695.34	-9.80	-.34
77	1780.00	1755.00	1680.00	691.07	700.90	-9.83	7.68
78	1800.00	1775.00	1700.00	697.19	706.52	-9.32	-6.93
79	1820.00	1795.00	1720.00	702.21	711.99	-9.78	0
80	1847.85	1822.85	1747.85	709.95	719.72	-9.78	

ANALYST: Z.KATELIS

10-MAR-93 15:14:34

PROGRAM: GADJST 008.E08

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SONIC ADJUSTMENT PARAMETER REPORT

COMPANY : BHP PETROLEUM
WELL : ERIC THE RED-1
FIELD : WILDCAT
COUNTRY : P.N.G.
REFERENCE: SYJ-560880

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 ADJUSTMENT 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	:	7.50000	US/F
UNIFORM EARTH VELOCITY	UNERTH	:	1480.00	M/S

(ZONED PARAMETERS)

(VALUE)

(LIMITS)

USER DRIFT ZONE (WST)	ZDRIFT	:	-9.800000	MS	1848.00	-	1301.00
			-4.400000		1301.00		1100.00
			-3.000000		1100.00		919.700
			-3.300000		919.700		560.000
			-2.600000		560.000		373.000
			0		373.000		0
ADJUSMNT MODE (WST)	ADJOPZ	:	-999.2500		30479.7	-	0
			USER DELTA-T MIN (WST)	ADJUSZ	:	-999.2500	US/F
LAYER OPTION FLAG VELOC	LOFVEL	:	1.000000		30479.7	-	0
			USER VELOC (WST)	LAYVEL	:	2090.000	M/S
			2150.000		347.000		325.000
			1991.000		325.000		275.000
			1781.000		275.000		225.000
			1772.000		225.000		175.000
			1871.000		175.000		100.000
			1480.000		100.000		0

COMPANY : BHP PETROLEUM

WELL : ERIC THE RED-1

PAGE 2

KNEE NUMBER	VERTICAL DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	VERTICAL DEPTH FROM GL M	DRIFT AT KNEE MS	BLOCKSHIFT USED US/F	DELTA-T MINIMUM USED US/F	REDUCTION FACTOR G	EQUIVALENT BLOCKSHIFT US/F
					0			0
2	373.00	348.00	273.00	0		121.89	.69	-4.24
3	560.00	535.00	460.00	-2.60		113.94	.94	-.59
4	919.70	894.70	819.70	-3.30	.51			.51
5	1100.00	1075.00	1000.00	-3.00		93.59	.79	-2.12
6	1301.00	1276.00	1201.00	-4.40		80.63	.70	-3.01
7	1848.00	1823.00	1748.00	-9.80				

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*          SCHLUMBERGER              *  
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VELOCITY REPORT

: BHP PETROLEUM
: ERIC THE RED-1
: WILDCAT
: P.N.G.
CE: SYJ-560880

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	:	-75.0000	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	:	2090.000	M/S	373.000	-	347.000
			2150.000		347.000		325.000
			1991.000		325.000		275.000
			1781.000		275.000		225.000
			1772.000		225.000		175.000
			1871.000		175.000		100.000
			1480.000		100.000		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
1	100.00	75.00	0	50.67	50.67	0	0	1480
2	175.00	150.00	75.00	90.75	90.75	0	0	1871
3	225.00	200.00	125.00	118.97	118.97	0	0	1772
4	275.00	250.00	175.00	147.05	147.05	0	0	1781
5	325.00	300.00	225.00	172.17	172.16	0	.01	1991
6	347.00	322.00	247.00	182.40	182.40	0	0	2149
7	373.00	348.00	273.00	194.84	194.84	0	0	2090
8	385.00	360.00	285.00	199.43	200.30	-1.17	-.87	2198
9	398.00	373.00	298.00	205.91	206.21	-.92	-.30	2200
10	415.00	390.00	315.00	213.28	213.70	-1.35	-.42	2270
11	447.00	422.00	347.00	228.19	227.80	-1.16	.39	2269
12	475.00	450.00	375.00	239.85	239.71	-1.90	.14	2351
13	497.00	472.00	397.00	248.36	248.18	-1.90	.18	2598
14	518.00	493.00	418.00	256.97	257.13	-2.48	-.16	2345
15	540.00	515.00	440.00	265.74	266.19	-2.96	-.45	2429
16	560.00	535.00	460.00	274.23	274.22	-2.59	.01	2490
17	580.00	555.00	480.00	282.35	281.94	-2.24	.41	2592
18	600.00	575.00	500.00	289.90	289.61	-2.37	.30	2608
19	620.00	595.00	520.00	298.38	298.59	-2.97	-.21	2226
20	640.00	615.00	540.00	307.14	307.26	-2.95	-.12	2307
21	660.00	635.00	560.00	314.92	315.20	-3.14	-.28	2519
22	680.00	655.00	580.00	323.70	323.74	-2.98	-.04	2342
23	700.00	675.00	600.00	331.54	331.96	-3.40	-.42	2434
24	720.00	695.00	620.00	339.63	339.69	-3.08	-.06	2587

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 =		RESIDUAL =		ADJUSTED INTERVAL VELOCITY M/S
						SHOT TIME - RAW SON MS	SHOT TIME - ADJ SON MS	SHOT TIME - ADJ SON MS	SHOT TIME - ADJ SON MS	
										2628
25	740.00	715.00	640.00	347.23	347.30	-3.12		-.07		2589
26	762.00	737.00	662.00	355.88	355.80	-3.00		.09		2488
27	780.00	755.00	680.00	362.95	363.03	-3.20		-.08		2694
28	800.00	775.00	700.00	370.68	370.45	-2.91		.23		2589
29	820.00	795.00	720.00	378.28	378.18	-3.07		.10		2572
30	840.00	815.00	740.00	386.14	385.95	-2.99		.19		2412
31	860.00	835.00	760.00	394.11	394.25	-3.37		-.13		2520
32	880.00	855.00	780.00	402.34	402.19	-3.11		.15		2570
33	900.00	875.00	800.00	410.13	409.97	-3.13		.16		2605
34	920.00	895.00	820.00	417.62	417.65	-3.34		-.02		2608
35	940.00	915.00	840.00	424.93	425.31	-3.67		-.39		2647
36	963.00	938.00	863.00	433.26	434.00	-3.98		-.74		2655
37	980.00	955.00	880.00	439.69	440.41	-3.94		-.72		2658
38	1005.00	980.00	905.00	449.50	449.81	-3.48		-.31		2498
39	1030.00	1005.00	930.00	460.88	459.82	-2.07		1.06		2634
40	1040.00	1015.00	940.00	464.90	463.62	-1.83		1.28		2636
41	1060.00	1035.00	960.00	471.67	471.21	-2.62		.47		2799
42	1080.00	1055.00	980.00	479.08	478.35	-2.33		.73		2970
43	1100.00	1075.00	1000.00	485.11	485.09	-2.99		.03		2867
44	1123.00	1098.00	1023.00	494.13	493.11	-2.26		1.02		2907
45	1145.00	1120.00	1045.00	500.89	500.68	-3.29		.21		2884
46	1163.00	1138.00	1063.00	507.11	506.92	-3.51		.19		2981
47	1180.00	1155.00	1080.00	513.03	512.62	-3.42		.41		3085
48	1200.00	1175.00	1100.00	519.16	519.11	-3.86		.06		

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
								3147
49	1220.00	1195.00	1120.00	525.17	525.46	-4.28	-.29	3176
50	1240.00	1215.00	1140.00	531.51	531.76	-4.29	-.25	3057
51	1260.00	1235.00	1160.00	538.43	538.30	-4.03	.13	2922
52	1280.00	1255.00	1180.00	545.12	545.14	-4.37	-.03	3221
53	1304.00	1279.00	1204.00	552.55	552.60	-4.51	-.05	3302
54	1316.00	1291.00	1216.00	556.82	556.23	-4.06	.59	3107
55	1331.00	1306.00	1231.00	561.97	561.06	-4.10	.92	3150
56	1355.00	1330.00	1255.00	569.67	568.68	-4.56	1.00	3255
57	1380.00	1355.00	1280.00	578.50	576.36	-3.87	2.14	3321
58	1400.00	1375.00	1300.00	583.17	582.38	-5.54	.79	3220
59	1420.00	1395.00	1320.00	589.75	588.59	-5.55	1.16	3211
60	1440.00	1415.00	1340.00	596.22	594.82	-5.71	1.40	3247
61	1460.00	1435.00	1360.00	602.75	600.98	-5.71	1.77	3310
62	1480.00	1455.00	1380.00	609.20	607.02	-5.62	2.18	3496
63	1505.00	1480.00	1405.00	616.14	614.17	-6.10	1.97	3333
64	1525.00	1500.00	1425.00	621.79	620.17	-6.76	1.62	3555
65	1544.00	1519.00	1444.00	627.27	625.52	-6.79	1.75	3676
66	1560.00	1535.00	1460.00	632.05	629.87	-6.47	2.18	3619
67	1580.00	1555.00	1480.00	636.73	635.40	-7.44	1.33	3626
68	1600.00	1575.00	1500.00	642.87	640.91	-6.92	1.96	3531
69	1620.00	1595.00	1520.00	648.53	646.58	-7.09	1.95	3551
70	1640.00	1615.00	1540.00	653.92	652.21	-7.48	1.71	3797
71	1660.00	1635.00	1560.00	658.66	657.48	-8.06	1.18	3640
72	1680.00	1655.00	1580.00	663.84	662.97	-8.51	.87	

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
73	1702.00	1677.00	1602.00	670.39	669.37	-8.62	1.01	3438
74	1720.00	1695.00	1620.00	675.29	674.50	-9.02	.79	3510
75	1743.00	1718.00	1643.00	681.37	680.49	-9.01	.88	3838
76	1760.00	1735.00	1660.00	685.54	685.30	-9.80	.23	3533
77	1780.00	1755.00	1680.00	691.07	690.77	-9.83	.30	3658
78	1800.00	1775.00	1700.00	697.19	696.29	-9.32	.90	3624
79	1820.00	1795.00	1720.00	702.21	701.70	-9.78	.51	3699
80	1847.85	1822.85	1747.85	709.95	709.38	-9.78	.57	3624

93 15:15:55 PROGRAM: GTRFRM 001.E13

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*          SCHLUMBERGER          *  
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IME CONVERTED VELOCITY REPORT

: BHP PETROLEUM
: ERIC THE RED-1
: WILDCAT
: P.N.G.
E: SYJ-560880

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	:	-75.0000	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

COMPANY : BHP PETROLEUM

WELL : ERIC THE RED-1

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(ZONED PARAMETERS)	(VALUE)	(LIMITS)
LAYER OPTION FLAG VELOC LOFVEL	: 1.000000	30479.7 - 0
USER VELOC (WST) LAYVEL	: 2090.000 M/S	373.000 - 347.000
	2150.000	347.000 325.000
	1991.000	325.000 275.000
	1781.000	275.000 225.000
	1772.000	225.000 175.000
	1871.000	175.000 100.000
	1480.000	100.000 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
X 0	X25.00	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	1480

COMPANY : BHP PETROLEUM

WELL : ERIC THE RED-1

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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	1480

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
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	1612
102.00	100.61	75.61	1483	1483	580.11	914.80	1250.74	1871
104.00	102.48	77.48	1490	1491	574.65	907.31	1241.29	1871
106.00	104.35	79.35	1497	1499	569.39	900.14	1232.25	1871
108.00	106.23	81.23	1504	1507	564.34	893.25	1223.60	1871
110.00	108.10	83.10	1511	1514	559.46	886.63	1215.29	1871
112.00	109.97	84.97	1517	1521	554.75	880.25	1207.31	1871
114.00	111.84	86.84	1524	1528	550.19	874.10	1199.63	1871
116.00	113.71	88.71	1530	1535	545.78	868.17	1192.23	1871
118.00	115.58	90.58	1535	1541	541.51	862.43	1185.09	1871
120.00	117.45	92.45	1541	1547	537.36	856.88	1178.19	1871
122.00	119.33	94.33	1546	1553	533.34	851.50	1171.53	1871
124.00	121.20	96.20	1552	1559	529.42	846.28	1165.07	1871
126.00	123.07	98.07	1557	1564	525.61	841.21	1158.82	1871
128.00	124.94	99.94	1562	1569	521.90	836.29	1152.75	1871
130.00	126.81	101.81	1566	1575	518.28	831.50	1146.86	1871
132.00	128.68	103.68	1571	1579	514.75	826.83	1141.14	1871
134.00	130.55	105.55	1575	1584	511.30	822.29	1135.57	1871
136.00	132.42	107.42	1580	1589	507.94	817.86	1130.15	1871
138.00	134.30	109.30	1584	1593	504.64	813.54	1124.87	1871
140.00	136.17	111.17	1588	1598	501.42	809.32	1119.72	1871
142.00	138.04	113.04	1592	1602	498.27	805.19	1114.70	

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
144.00	139.91	114.91	1596	1606	495.18	801.16	1109.79	1871
146.00	141.78	116.78	1600	1610	492.15	797.21	1105.00	1871
148.00	143.65	118.65	1603	1614	489.18	793.34	1100.32	1871
150.00	145.52	120.52	1607	1617	486.27	789.55	1095.74	1871
152.00	147.39	122.39	1610	1621	483.41	785.84	1091.25	1871
154.00	149.27	124.27	1614	1624	480.60	782.20	1086.86	1871
156.00	151.14	126.14	1617	1628	477.84	778.63	1082.55	1871
158.00	153.01	128.01	1620	1631	475.13	775.12	1078.33	1871
160.00	154.88	129.88	1623	1634	472.46	771.68	1074.20	1871
162.00	156.75	131.75	1627	1637	469.84	768.29	1070.13	1871
164.00	158.62	133.62	1630	1640	467.26	764.96	1066.14	1871
166.00	160.49	135.49	1632	1643	464.72	761.69	1062.23	1871
168.00	162.36	137.36	1635	1646	462.21	758.47	1058.38	1871
170.00	164.24	139.24	1638	1649	459.75	755.30	1054.59	1871
172.00	166.11	141.11	1641	1652	457.32	752.18	1050.87	1871
174.00	167.98	142.98	1643	1655	454.92	749.11	1047.21	1871
176.00	169.85	144.85	1646	1657	452.56	746.08	1043.60	1871
178.00	171.72	146.72	1649	1660	450.23	743.09	1040.05	1871
180.00	173.59	148.59	1651	1662	447.93	740.15	1036.55	1845
182.00	175.44	150.44	1653	1664	445.78	737.42	1033.34	1772
184.00	177.21	152.21	1654	1666	443.95	735.18	1030.78	1772
186.00	178.98	153.98	1656	1667	442.13	732.96	1028.25	1772
188.00	180.75	155.75	1657	1668	440.33	730.76	1025.74	1772
190.00	182.52	157.52	1658	1669	438.54	728.57	1023.25	1772

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	184.30	159.30	1659	1670	436.77	726.41	1020.78	1772
194.00	186.07	161.07	1661	1671	435.02	724.26	1018.33	1772
196.00	187.84	162.84	1662	1672	433.28	722.13	1015.91	1772
198.00	189.61	164.61	1663	1673	431.55	720.02	1013.50	1772
200.00	191.38	166.38	1664	1674	429.84	717.92	1011.12	1772
202.00	193.16	168.16	1665	1675	428.14	715.84	1008.75	1772
204.00	194.93	169.93	1666	1676	426.46	713.78	1006.40	1772
206.00	196.70	171.70	1667	1677	424.79	711.73	1004.07	1772
208.00	198.47	173.47	1668	1678	423.13	709.69	1001.76	1772
210.00	200.24	175.24	1669	1679	421.49	707.67	999.47	1772
212.00	202.02	177.02	1670	1680	419.86	705.67	997.19	1772
214.00	203.79	178.79	1671	1681	418.24	703.68	994.92	1772
216.00	205.56	180.56	1672	1682	416.63	701.70	992.68	1772
218.00	207.33	182.33	1673	1683	415.03	699.73	990.45	1772
220.00	209.10	184.10	1674	1683	413.45	697.78	988.23	1772
222.00	210.88	185.88	1675	1684	411.87	695.84	986.03	1772
224.00	212.65	187.65	1675	1685	410.31	693.92	983.84	1772
226.00	214.42	189.42	1676	1686	408.76	692.01	981.67	1772
228.00	216.19	191.19	1677	1687	407.22	690.11	979.51	1772
230.00	217.96	192.96	1678	1687	405.70	688.22	977.37	1772
232.00	219.73	194.73	1679	1688	404.18	686.34	975.24	1772
234.00	221.51	196.51	1680	1689	402.67	684.47	973.12	1772
236.00	223.28	198.28	1680	1690	401.17	682.62	971.01	1772
238.00	225.05	200.05	1681	1690	399.69	680.77	968.91	1772

COMPANY : BHP PETROLEUM

WELL : ERIC THE RED-1

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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
								1781
240.00	226.83	201.83	1682	1691	398.19	678.90	966.78	1781
242.00	228.61	203.61	1683	1692	396.69	677.04	964.66	1781
244.00	230.39	205.39	1684	1693	395.21	675.19	962.55	1781
246.00	232.17	207.17	1684	1693	393.74	673.36	960.46	1781
248.00	233.95	208.95	1685	1694	392.28	671.53	958.38	1781
250.00	235.73	210.73	1686	1695	390.83	669.72	956.30	1781
252.00	237.51	212.51	1687	1695	389.39	667.91	954.25	1781
254.00	239.30	214.30	1687	1696	387.96	666.12	952.20	1781
256.00	241.08	216.08	1688	1697	386.54	664.33	950.16	1781
258.00	242.86	217.86	1689	1697	385.13	662.56	948.14	1781
260.00	244.64	219.64	1690	1698	383.73	660.79	946.12	1781
262.00	246.42	221.42	1690	1699	382.33	659.04	944.12	1781
264.00	248.20	223.20	1691	1699	380.95	657.29	942.13	1781
266.00	249.98	224.98	1692	1700	379.57	655.56	940.14	1781
268.00	251.76	226.76	1692	1701	378.20	653.83	938.17	1781
270.00	253.54	228.54	1693	1701	376.85	652.12	936.21	1781
272.00	255.32	230.32	1694	1702	375.50	650.41	934.26	1781
274.00	257.10	232.10	1694	1702	374.16	648.71	932.31	1781
276.00	258.88	233.88	1695	1703	372.82	647.02	930.38	1781
278.00	260.66	235.66	1695	1704	371.50	645.34	928.46	1781
280.00	262.44	237.44	1696	1704	370.18	643.67	926.54	1781
282.00	264.22	239.22	1697	1705	368.87	642.00	924.64	1781
284.00	266.00	241.00	1697	1705	367.57	640.35	922.74	1781
286.00	267.78	242.78	1698	1706	366.28	638.70	920.85	1781

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	269.56	244.56	1698	1706	365.00	637.06	918.98	1781
290.00	271.35	246.35	1699	1707	363.72	635.43	917.11	1781
292.00	273.13	248.13	1699	1707	362.45	633.80	915.25	1781
294.00	274.91	249.91	1700	1708	361.19	632.19	913.39	1781
296.00	276.89	251.89	1702	1710	359.47	629.83	910.53	1987
298.00	278.88	253.88	1704	1712	357.75	627.49	907.67	1991
300.00	280.88	255.88	1706	1714	356.06	625.16	904.84	1991
302.00	282.87	257.87	1708	1716	354.38	622.86	902.04	1991
304.00	284.86	259.86	1710	1718	352.71	620.57	899.26	1991
306.00	286.85	261.85	1711	1720	351.06	618.31	896.51	1991
308.00	288.84	263.84	1713	1722	349.43	616.07	893.78	1991
310.00	290.83	265.83	1715	1724	347.81	613.85	891.07	1991
312.00	292.82	267.82	1717	1725	346.21	611.65	888.39	1991
314.00	294.81	269.81	1719	1727	344.63	609.46	885.74	1991
316.00	296.80	271.80	1720	1729	343.06	607.30	883.10	1991
318.00	298.79	273.79	1722	1731	341.50	605.15	880.49	1991
320.00	300.78	275.78	1724	1733	339.96	603.02	877.90	1991
322.00	302.77	277.77	1725	1734	338.43	600.91	875.34	1991
324.00	304.76	279.76	1727	1736	336.91	598.82	872.79	1991
326.00	306.75	281.75	1729	1738	335.41	596.74	870.26	1991
328.00	308.74	283.74	1730	1739	333.93	594.69	867.76	1991
330.00	310.74	285.74	1732	1741	332.45	592.64	865.27	1991
332.00	312.73	287.73	1733	1743	330.99	590.62	862.80	1991
334.00	314.72	289.72	1735	1744	329.54	588.61	860.35	1991

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
								1991
336.00	316.71	291.71	1736	1746	328.11	586.61	857.93	1991
338.00	318.70	293.70	1738	1747	326.68	584.63	855.51	1991
340.00	320.69	295.69	1739	1749	325.27	582.67	853.12	1991
342.00	322.68	297.68	1741	1750	323.87	580.72	850.75	1991
344.00	324.67	299.67	1742	1752	322.48	578.78	848.39	2129
346.00	326.80	301.80	1745	1754	320.85	576.44	845.46	2150
348.00	328.95	303.95	1747	1757	319.19	574.05	842.48	2150
350.00	331.10	306.10	1749	1759	317.54	571.69	839.52	2150
352.00	333.25	308.25	1751	1762	315.92	569.35	836.59	2150
354.00	335.40	310.40	1754	1764	314.31	567.03	833.69	2150
356.00	337.55	312.55	1756	1767	312.72	564.73	830.82	2150
358.00	339.70	314.70	1758	1769	311.15	562.46	827.97	2150
360.00	341.85	316.85	1760	1771	309.59	560.21	825.15	2150
362.00	344.00	319.00	1762	1774	308.04	557.97	822.36	2150
364.00	346.15	321.15	1765	1776	306.52	555.76	819.59	2110
366.00	348.26	323.26	1766	1778	305.08	553.69	817.00	2090
368.00	350.35	325.35	1768	1780	303.68	551.68	814.52	2090
370.00	352.44	327.44	1770	1782	302.30	549.70	812.05	2090
372.00	354.53	329.53	1772	1783	300.93	547.72	809.60	2090
374.00	356.62	331.62	1773	1785	299.57	545.77	807.17	2090
376.00	358.71	333.71	1775	1787	298.22	543.83	804.76	2090
378.00	360.80	335.80	1777	1789	296.89	541.90	802.36	2090
380.00	362.89	337.89	1778	1790	295.57	539.99	799.99	2090
382.00	364.98	339.98	1780	1792	294.26	538.10	797.63	2090

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
432.00	420.79	395.79	1832	1849	260.25	487.20	732.88	2562
434.00	423.02	398.02	1834	1851	259.06	485.40	730.59	2226
436.00	425.24	400.24	1836	1853	257.88	483.62	728.31	2226
438.00	427.45	402.45	1838	1854	256.74	481.89	726.10	2207
440.00	429.74	404.74	1840	1857	255.51	480.00	723.67	2288
442.00	431.99	406.99	1842	1859	254.33	478.20	721.36	2254
444.00	434.18	409.18	1843	1860	253.24	476.55	719.27	2186
446.00	436.34	411.34	1845	1862	252.19	474.96	717.24	2166
448.00	438.57	413.57	1846	1863	251.07	473.24	715.04	2233
450.00	440.83	415.83	1848	1865	249.93	471.49	712.80	2253
452.00	443.03	418.03	1850	1867	248.86	469.86	710.70	2205
454.00	445.24	420.24	1851	1869	247.79	468.23	708.63	2204
456.00	447.45	422.45	1853	1870	246.73	466.61	706.55	2211
458.00	449.64	424.64	1854	1872	245.70	465.03	704.54	2189
460.00	451.81	426.81	1856	1873	244.70	463.50	702.59	2173
462.00	453.98	428.98	1857	1875	243.71	461.99	700.66	2170
464.00	456.17	431.17	1859	1876	242.70	460.44	698.68	2194
466.00	458.40	433.40	1860	1878	241.66	458.84	696.62	2227
468.00	460.61	435.61	1862	1879	240.65	457.28	694.62	2212
470.00	462.86	437.86	1863	1881	239.61	455.66	692.53	2250
472.00	465.16	440.16	1865	1883	238.52	453.97	690.33	2295
474.00	467.52	442.52	1867	1885	237.37	452.15	687.96	2365
476.00	469.92	444.92	1869	1888	236.19	450.30	685.53	2396
478.00	472.70	447.70	1873	1892	234.57	447.66	681.99	2784

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
								3140
480.00	475.84	450.84	1879	1899	232.49	444.23	677.32	2900
482.00	478.74	453.74	1883	1904	230.77	441.42	673.51	2791
484.00	481.54	456.54	1887	1909	229.21	438.88	670.09	2739
486.00	484.27	459.27	1890	1913	227.74	436.48	666.87	2485
488.00	486.76	461.76	1892	1916	226.57	434.60	664.38	2488
490.00	489.25	464.25	1895	1918	225.40	432.73	661.91	2463
492.00	491.71	466.71	1897	1921	224.28	430.92	659.52	2406
494.00	494.12	469.12	1899	1923	223.22	429.23	657.30	2452
496.00	496.57	471.57	1901	1926	222.12	427.47	654.98	2398
498.00	498.97	473.97	1903	1928	221.09	425.83	652.81	2418
500.00	501.38	476.38	1906	1930	220.05	424.16	650.61	2421
502.00	503.80	478.80	1908	1932	219.02	422.50	648.41	2390
504.00	506.19	481.19	1910	1934	218.02	420.90	646.31	2366
506.00	508.56	483.56	1911	1936	217.06	419.35	644.28	2307
508.00	510.87	485.87	1913	1938	216.15	417.92	642.39	2272
510.00	513.14	488.14	1914	1939	215.29	416.54	640.60	2260
512.00	515.40	490.40	1916	1940	214.44	415.19	638.84	2296
514.00	517.69	492.69	1917	1942	213.57	413.80	637.02	2271
516.00	519.97	494.97	1918	1943	212.72	412.45	635.26	2302
518.00	522.27	497.27	1920	1945	211.86	411.07	633.44	2338
520.00	524.61	499.61	1922	1947	210.97	409.63	631.56	2365
522.00	526.97	501.97	1923	1948	210.07	408.17	629.63	2351
524.00	529.32	504.32	1925	1950	209.18	406.74	627.74	2452
526.00	531.77	506.77	1927	1952	208.22	405.17	625.64	

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
								2449
528.00	534.22	509.22	1929	1954	207.27	403.62	623.57	2490
530.00	536.71	511.71	1931	1957	206.29	402.01	621.42	2717
532.00	539.43	514.43	1934	1960	205.11	400.05	618.77	2759
534.00	542.19	517.19	1937	1964	203.91	398.05	616.04	2702
536.00	544.89	519.89	1940	1967	202.78	396.15	613.47	2640
538.00	547.53	522.53	1942	1970	201.71	394.38	611.07	2531
540.00	550.06	525.06	1945	1972	200.75	392.79	608.93	2412
542.00	552.47	527.47	1946	1974	199.89	391.38	607.05	2348
544.00	554.82	529.82	1948	1975	199.09	390.07	605.32	2390
546.00	557.21	532.21	1949	1977	198.26	388.72	603.51	2298
548.00	559.51	534.51	1951	1978	197.51	387.49	601.89	2205
550.00	561.71	536.71	1952	1979	196.83	386.40	600.45	2290
552.00	564.00	539.00	1953	1980	196.10	385.20	598.87	2654
554.00	566.66	541.66	1955	1983	195.09	383.50	596.56	2560
556.00	569.22	544.22	1958	1986	194.16	381.96	594.47	2564
558.00	571.78	546.78	1960	1988	193.25	380.42	592.39	2752
560.00	574.53	549.53	1963	1991	192.18	378.62	589.92	2878
562.00	577.41	552.41	1966	1995	191.03	376.65	587.21	2769
564.00	580.18	555.18	1969	1998	189.98	374.86	584.76	2974
566.00	583.15	558.15	1972	2003	188.77	372.78	581.88	2682
568.00	585.84	560.84	1975	2006	187.81	371.16	579.65	2666
570.00	588.50	563.50	1977	2008	186.87	369.57	577.48	2869
572.00	591.37	566.37	1980	2012	185.78	367.71	574.91	2431
574.00	593.80	568.80	1982	2014	185.04	366.46	573.22	

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
								2360
576.00	596.16	571.16	1983	2015	184.34	365.30	571.66	2364
578.00	598.53	573.53	1985	2016	183.64	364.14	570.11	2346
580.00	600.87	575.87	1986	2017	182.97	363.01	568.60	2105
582.00	602.98	577.98	1986	2018	182.44	362.15	567.48	2147
584.00	605.12	580.12	1987	2018	181.89	361.25	566.30	2219
586.00	607.34	582.34	1988	2019	181.30	360.28	565.01	2202
588.00	609.55	584.55	1988	2019	180.73	359.33	563.76	2259
590.00	611.80	586.80	1989	2020	180.12	358.33	562.42	2238
592.00	614.04	589.04	1990	2021	179.54	357.35	561.11	2254
594.00	616.30	591.30	1991	2022	178.94	356.36	559.79	2226
596.00	618.52	593.52	1992	2023	178.37	355.41	558.52	2491
598.00	621.01	596.01	1993	2024	177.64	354.16	556.83	2445
600.00	623.46	598.46	1995	2026	176.94	352.98	555.22	2391
602.00	625.85	600.85	1996	2027	176.28	351.87	553.71	2228
604.00	628.08	603.08	1997	2028	175.72	350.94	552.47	2227
606.00	630.30	605.30	1998	2029	175.17	350.01	551.23	2239
608.00	632.54	607.54	1998	2029	174.61	349.07	549.97	2332
610.00	634.88	609.88	2000	2030	174.00	348.04	548.59	2199
612.00	637.07	612.07	2000	2031	173.47	347.16	547.40	2320
614.00	639.39	614.39	2001	2032	172.88	346.15	546.05	2483
616.00	641.88	616.88	2003	2034	172.19	344.98	544.44	2689
618.00	644.57	619.57	2005	2036	171.39	343.58	542.50	2735
620.00	647.30	622.30	2007	2039	170.56	342.14	540.49	2315
622.00	649.62	624.62	2008	2040	169.99	341.17	539.17	

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
								2577
624.00	652.19	627.19	2010	2042	169.27	339.92	537.45	2616
626.00	654.81	629.81	2012	2044	168.53	338.65	535.69	2502
628.00	657.31	632.31	2014	2045	167.87	337.51	534.11	2243
630.00	659.55	634.55	2014	2046	167.36	336.63	532.93	2233
632.00	661.79	636.79	2015	2047	166.85	335.76	531.76	2303
634.00	664.09	639.09	2016	2048	166.30	334.84	530.51	2343
636.00	666.43	641.43	2017	2049	165.75	333.88	529.20	2433
638.00	668.87	643.87	2018	2050	165.14	332.84	527.77	2383
640.00	671.25	646.25	2020	2051	164.57	331.85	526.42	2293
642.00	673.54	648.54	2020	2052	164.05	330.96	525.20	2377
644.00	675.92	650.92	2021	2053	163.48	329.99	523.87	2339
646.00	678.26	653.26	2022	2054	162.94	329.06	522.60	2358
648.00	680.62	655.62	2024	2055	162.40	328.12	521.31	2382
650.00	683.00	658.00	2025	2056	161.85	327.16	519.99	2359
652.00	685.36	660.36	2026	2057	161.31	326.22	518.71	2335
654.00	687.69	662.69	2027	2058	160.78	325.32	517.47	2411
656.00	690.10	665.10	2028	2059	160.23	324.35	516.13	2493
658.00	692.60	667.60	2029	2060	159.63	323.31	514.68	2767
660.00	695.36	670.36	2031	2063	158.89	321.99	512.83	2402
662.00	697.76	672.76	2033	2064	158.35	321.05	511.53	2338
664.00	700.10	675.10	2033	2065	157.84	320.17	510.31	2431
666.00	702.53	677.53	2035	2066	157.29	319.21	508.98	2457
668.00	704.99	679.99	2036	2067	156.74	318.23	507.63	2507
670.00	707.50	682.50	2037	2069	156.16	317.21	506.21	

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
								2588
672.00	710.09	685.09	2039	2071	155.55	316.12	504.68	2607
674.00	712.69	687.69	2041	2072	154.93	315.03	503.13	2513
676.00	715.21	690.21	2042	2074	154.36	314.02	501.73	2751
678.00	717.96	692.96	2044	2076	153.67	312.80	500.00	2890
680.00	720.85	695.85	2047	2079	152.92	311.44	498.07	2752
682.00	723.60	698.60	2049	2081	152.25	310.24	496.36	2659
684.00	726.26	701.26	2050	2083	151.63	309.13	494.79	2657
686.00	728.92	703.92	2052	2085	151.02	308.04	493.24	2557
688.00	731.47	706.47	2054	2087	150.46	307.04	491.84	2619
690.00	734.09	709.09	2055	2088	149.87	305.99	490.36	2661
692.00	736.75	711.75	2057	2090	149.27	304.91	488.83	2525
694.00	739.28	714.28	2058	2092	148.74	303.96	487.49	2409
696.00	741.69	716.69	2059	2093	148.26	303.11	486.31	2554
698.00	744.24	719.24	2061	2094	147.72	302.15	484.94	2703
700.00	746.94	721.94	2063	2096	147.12	301.06	483.39	3176
702.00	750.12	725.12	2066	2100	146.28	299.51	481.16	2411
704.00	752.53	727.53	2067	2101	145.81	298.69	480.00	2414
706.00	754.94	729.94	2068	2102	145.35	297.86	478.85	2445
708.00	757.39	732.39	2069	2103	144.88	297.02	477.66	2774
710.00	760.16	735.16	2071	2105	144.26	295.90	476.06	2316
712.00	762.48	737.48	2072	2106	143.85	295.17	475.04	2540
714.00	765.02	740.02	2073	2107	143.34	294.26	473.75	2447
716.00	767.47	742.47	2074	2108	142.88	293.43	472.59	2377
718.00	769.84	744.84	2075	2109	142.45	292.66	471.51	

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
720.00	772.52	747.52	2076	2111	141.90	291.66	470.07	2682
722.00	774.97	749.97	2077	2112	141.45	290.85	468.93	2443
724.00	777.41	752.41	2078	2113	141.00	290.04	467.79	2444
726.00	779.93	754.93	2080	2114	140.52	289.18	466.57	2516
728.00	782.39	757.39	2081	2115	140.07	288.37	465.42	2463
730.00	784.94	759.94	2082	2116	139.59	287.50	464.18	2546
732.00	788.04	763.04	2085	2120	138.87	286.17	462.24	3102
734.00	791.13	766.13	2088	2123	138.16	284.85	460.32	3092
736.00	793.79	768.79	2089	2124	137.65	283.92	458.98	2655
738.00	796.39	771.39	2090	2126	137.17	283.03	457.71	2605
740.00	798.89	773.89	2092	2127	136.72	282.23	456.57	2499
742.00	801.37	776.37	2093	2128	136.29	281.44	455.45	2476
744.00	803.89	778.89	2094	2129	135.84	280.63	454.29	2524
746.00	806.68	781.68	2096	2131	135.29	279.61	452.82	2794
748.00	809.30	784.30	2097	2133	134.82	278.74	451.57	2617
750.00	811.84	786.84	2098	2134	134.38	277.93	450.41	2541
752.00	814.32	789.32	2099	2135	133.96	277.17	449.32	2475
754.00	816.85	791.85	2100	2136	133.52	276.37	448.18	2535
756.00	819.53	794.53	2102	2138	133.04	275.48	446.89	2674
758.00	822.15	797.15	2103	2139	132.57	274.63	445.66	2626
760.00	824.91	799.91	2105	2141	132.06	273.68	444.29	2759
762.00	827.54	802.54	2106	2142	131.61	272.84	443.07	2625
764.00	830.02	805.02	2107	2143	131.20	272.10	442.01	2487
766.00	832.55	807.55	2108	2144	130.78	271.33	440.91	2530

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	835.12	810.12	2110	2146	130.36	270.54	439.77	2570
770.00	837.66	812.66	2111	2147	129.94	269.78	438.67	2541
772.00	840.11	815.11	2112	2148	129.56	269.08	437.66	2448
774.00	842.59	817.59	2113	2148	129.17	268.36	436.64	2473
776.00	844.98	819.98	2113	2149	128.81	267.70	435.69	2397
778.00	847.31	822.31	2114	2150	128.47	267.09	434.82	2326
780.00	849.63	824.63	2114	2150	128.14	266.48	433.95	2321
782.00	852.04	827.04	2115	2151	127.78	265.82	433.01	2406
784.00	854.47	829.47	2116	2152	127.42	265.15	432.04	2434
786.00	856.94	831.94	2117	2152	127.04	264.45	431.04	2471
788.00	859.40	834.40	2118	2153	126.67	263.77	430.06	2458
790.00	861.83	836.83	2119	2154	126.31	263.11	429.11	2430
792.00	864.41	839.41	2120	2155	125.91	262.36	428.02	2581
794.00	866.91	841.91	2121	2156	125.53	261.67	427.01	2501
796.00	869.44	844.44	2122	2157	125.15	260.95	425.98	2534
798.00	872.01	847.01	2123	2158	124.76	260.22	424.92	2561
800.00	874.54	849.54	2124	2159	124.38	259.52	423.90	2531
802.00	877.09	852.09	2125	2160	124.00	258.80	422.86	2556
804.00	879.56	854.56	2126	2161	123.64	258.14	421.90	2472
806.00	882.25	857.25	2127	2163	123.22	257.35	420.74	2685
808.00	884.65	859.65	2128	2163	122.89	256.74	419.85	2402
810.00	887.05	862.05	2129	2164	122.56	256.13	418.97	2403
812.00	889.61	864.61	2130	2165	122.19	255.43	417.95	2559
814.00	892.22	867.22	2131	2166	121.80	254.70	416.89	2609

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
								2584
816.00	894.80	869.80	2132	2167	121.42	253.99	415.85	2528
818.00	897.33	872.33	2133	2168	121.06	253.32	414.87	2750
820.00	900.08	875.08	2134	2170	120.64	252.52	413.69	2531
822.00	902.61	877.61	2135	2171	120.28	251.85	412.72	2920
824.00	905.53	880.53	2137	2173	119.81	250.95	411.38	2644
826.00	908.18	883.18	2138	2174	119.42	250.23	410.31	2543
828.00	910.72	885.72	2139	2175	119.07	249.57	409.35	2546
830.00	913.27	888.27	2140	2176	118.72	248.91	408.38	2554
832.00	915.82	890.82	2141	2177	118.37	248.25	407.42	2527
834.00	918.35	893.35	2142	2178	118.03	247.61	406.48	2521
836.00	920.87	895.87	2143	2179	117.69	246.97	405.55	2502
838.00	923.37	898.37	2144	2180	117.36	246.35	404.64	2557
840.00	925.93	900.93	2145	2181	117.02	245.70	403.68	2729
842.00	928.66	903.66	2146	2182	116.63	244.96	402.58	2577
844.00	931.23	906.23	2147	2183	116.28	244.30	401.62	2578
846.00	933.81	908.81	2148	2184	115.94	243.65	400.66	2765
848.00	936.58	911.58	2150	2186	115.54	242.90	399.54	2585
850.00	939.16	914.16	2151	2187	115.20	242.25	398.59	2651
852.00	941.81	916.81	2152	2188	114.85	241.57	397.58	2442
854.00	944.26	919.26	2153	2189	114.55	241.01	396.75	2571
856.00	946.83	921.83	2154	2190	114.22	240.38	395.82	2524
858.00	949.35	924.35	2155	2190	113.90	239.78	394.94	2638
860.00	951.99	926.99	2156	2192	113.55	239.12	393.96	2665
862.00	954.65	929.65	2157	2193	113.20	238.45	392.97	

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	957.48	932.48	2159	2194	112.81	237.69	391.83	2826
866.00	960.18	935.18	2160	2196	112.45	237.01	390.82	2702
868.00	963.00	938.00	2161	2197	112.06	236.27	389.71	2814
870.00	965.80	940.80	2163	2199	111.69	235.54	388.62	2800
872.00	968.31	943.31	2164	2200	111.38	234.96	387.77	2518
874.00	971.01	946.01	2165	2201	111.04	234.30	386.78	2693
876.00	973.61	948.61	2166	2202	110.72	233.69	385.87	2600
878.00	976.19	951.19	2167	2203	110.40	233.09	384.98	2585
880.00	978.93	953.93	2168	2204	110.05	232.41	383.97	2736
882.00	981.74	956.74	2169	2206	109.68	231.70	382.90	2814
884.00	984.58	959.58	2171	2208	109.31	230.98	381.81	2840
886.00	987.16	962.16	2172	2208	109.00	230.39	380.94	2581
888.00	989.88	964.88	2173	2210	108.67	229.74	379.97	2712
890.00	992.47	967.47	2174	2211	108.36	229.16	379.10	2597
892.00	995.24	970.24	2175	2212	108.01	228.48	378.09	2771
894.00	997.81	972.81	2176	2213	107.72	227.92	377.24	2570
896.00	1000.37	975.37	2177	2214	107.43	227.36	376.41	2559
898.00	1002.93	977.93	2178	2215	107.14	226.80	375.58	2557
900.00	1005.49	980.49	2179	2215	106.85	226.25	374.75	2557
902.00	1008.04	983.04	2180	2216	106.56	225.70	373.93	2557
904.00	1010.58	985.58	2180	2217	106.29	225.16	373.13	2535
906.00	1013.06	988.06	2181	2218	106.02	224.65	372.37	2483
908.00	1015.55	990.55	2182	2218	105.75	224.14	371.61	2485
910.00	1017.98	992.98	2182	2219	105.50	223.65	370.88	2436

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
								2476
912.00	1020.46	995.46	2183	2219	105.24	223.15	370.13	2433
914.00	1022.89	997.89	2184	2220	104.99	222.67	369.42	2470
916.00	1025.36	1000.36	2184	2220	104.73	222.17	368.68	2541
918.00	1027.90	1002.90	2185	2221	104.46	221.65	367.89	2547
920.00	1030.45	1005.45	2186	2222	104.19	221.12	367.11	2709
922.00	1033.16	1008.16	2187	2223	103.88	220.53	366.20	2584
924.00	1035.74	1010.74	2188	2224	103.60	219.99	365.40	2607
926.00	1038.35	1013.35	2189	2225	103.32	219.44	364.58	2670
928.00	1041.02	1016.02	2190	2226	103.03	218.87	363.72	2621
930.00	1043.64	1018.64	2191	2227	102.75	218.33	362.90	2384
932.00	1046.02	1021.02	2191	2227	102.52	217.89	362.24	2903
934.00	1048.93	1023.93	2193	2229	102.18	217.21	361.21	2691
936.00	1051.62	1026.62	2194	2230	101.88	216.65	360.35	2577
938.00	1054.19	1029.19	2194	2231	101.62	216.13	359.58	2761
940.00	1056.96	1031.96	2196	2232	101.32	215.54	358.67	2530
942.00	1059.49	1034.49	2196	2233	101.06	215.04	357.94	2642
944.00	1062.13	1037.13	2197	2234	100.79	214.51	357.12	2921
946.00	1065.05	1040.05	2199	2235	100.45	213.85	356.11	2770
948.00	1067.82	1042.82	2200	2237	100.15	213.26	355.22	2673
950.00	1070.49	1045.49	2201	2238	99.88	212.72	354.40	2674
952.00	1073.17	1048.17	2202	2239	99.60	212.18	353.58	3102
954.00	1076.27	1051.27	2204	2241	99.23	211.45	352.45	2763
956.00	1079.03	1054.03	2205	2242	98.94	210.87	351.58	2888
958.00	1081.92	1056.92	2207	2243	98.62	210.25	350.63	

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	1085.07	1060.07	2208	2246	98.24	209.50	349.48	3156
962.00	1088.04	1063.04	2210	2247	97.92	208.85	348.48	2961
964.00	1090.82	1065.82	2211	2249	97.63	208.28	347.61	2789
966.00	1093.97	1068.97	2213	2251	97.26	207.55	346.48	3149
968.00	1096.90	1071.90	2215	2253	96.94	206.93	345.53	2927
970.00	1099.76	1074.76	2216	2254	96.65	206.34	344.63	2857
972.00	1102.46	1077.46	2217	2255	96.38	205.82	343.84	2701
974.00	1105.21	1080.21	2218	2256	96.11	205.28	343.01	2756
976.00	1108.17	1083.17	2220	2258	95.80	204.66	342.05	2958
978.00	1111.13	1086.13	2221	2259	95.48	204.04	341.10	2962
980.00	1114.00	1089.00	2222	2261	95.19	203.46	340.21	2865
982.00	1116.76	1091.76	2224	2262	94.92	202.93	339.40	2764
984.00	1119.82	1094.82	2225	2264	94.60	202.28	338.39	3058
986.00	1122.69	1097.69	2227	2265	94.31	201.71	337.51	2871
988.00	1125.51	1100.51	2228	2267	94.04	201.17	336.68	2820
990.00	1128.39	1103.39	2229	2268	93.75	200.60	335.81	2878
992.00	1131.33	1106.33	2230	2269	93.46	200.02	334.90	2935
994.00	1134.26	1109.26	2232	2271	93.16	199.44	334.00	2935
996.00	1137.15	1112.15	2233	2272	92.88	198.88	333.14	2886
998.00	1139.98	1114.98	2234	2274	92.61	198.34	332.32	2836
1000.00	1143.00	1118.00	2236	2275	92.31	197.74	331.38	3012
1002.00	1145.94	1120.94	2237	2277	92.02	197.16	330.49	2945
1004.00	1148.84	1123.84	2239	2278	91.75	196.61	329.64	2896
1006.00	1151.62	1126.62	2240	2279	91.49	196.11	328.87	2784

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
								2868
1008.00	1154.49	1129.49	2241	2281	91.23	195.58	328.04	2835
1010.00	1157.32	1132.32	2242	2282	90.97	195.06	327.24	2897
1012.00	1160.22	1135.22	2244	2283	90.70	194.52	326.41	3017
1014.00	1163.24	1138.24	2245	2285	90.41	193.93	325.50	3057
1016.00	1166.29	1141.29	2247	2287	90.11	193.34	324.57	3081
1018.00	1169.38	1144.38	2248	2289	89.81	192.73	323.63	2984
1020.00	1172.36	1147.36	2250	2290	89.53	192.17	322.76	2878
1022.00	1175.24	1150.24	2251	2292	89.27	191.66	321.96	2872
1024.00	1178.11	1153.11	2252	2293	89.01	191.14	321.16	3014
1026.00	1181.12	1156.12	2254	2294	88.73	190.58	320.29	3094
1028.00	1184.22	1159.22	2255	2296	88.44	189.99	319.36	2943
1030.00	1187.16	1162.16	2257	2298	88.17	189.46	318.54	3168
1032.00	1190.33	1165.33	2258	2300	87.87	188.84	317.58	3024
1034.00	1193.35	1168.35	2260	2301	87.59	188.29	316.71	3164
1036.00	1196.52	1171.52	2262	2303	87.29	187.69	315.77	3158
1038.00	1199.67	1174.67	2263	2305	87.00	187.09	314.83	3026
1040.00	1202.70	1177.70	2265	2307	86.73	186.54	313.98	3153
1042.00	1205.85	1180.85	2267	2309	86.43	185.95	313.05	3266
1044.00	1209.12	1184.12	2268	2311	86.12	185.32	312.06	3086
1046.00	1212.21	1187.21	2270	2313	85.85	184.76	311.19	3215
1048.00	1215.42	1190.42	2272	2315	85.55	184.16	310.24	3146
1050.00	1218.57	1193.57	2273	2317	85.27	183.59	309.34	3178
1052.00	1221.74	1196.74	2275	2319	84.98	183.01	308.43	3179
1054.00	1224.92	1199.92	2277	2321	84.69	182.43	307.52	

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
								3201
1056.00	1228.12	1203.12	2279	2323	84.41	181.85	306.61	3139
1058.00	1231.26	1206.26	2280	2324	84.13	181.29	305.73	3174
1060.00	1234.44	1209.44	2282	2326	83.85	180.72	304.84	3147
1062.00	1237.58	1212.58	2284	2328	83.58	180.17	303.97	3182
1064.00	1240.77	1215.77	2285	2330	83.30	179.61	303.09	3225
1066.00	1243.99	1218.99	2287	2332	83.02	179.04	302.19	3010
1068.00	1247.00	1222.00	2288	2333	82.78	178.54	301.41	3139
1070.00	1250.14	1225.14	2290	2335	82.51	178.01	300.57	2610
1072.00	1252.75	1227.75	2291	2336	82.33	177.65	300.00	3058
1074.00	1255.81	1230.81	2292	2337	82.09	177.14	299.21	3191
1076.00	1259.00	1234.00	2294	2339	81.82	176.60	298.35	3188
1078.00	1262.19	1237.19	2295	2341	81.55	176.05	297.49	2939
1080.00	1265.13	1240.13	2297	2342	81.33	175.60	296.78	2937
1082.00	1268.06	1243.06	2298	2343	81.10	175.15	296.07	2864
1084.00	1270.93	1245.93	2299	2345	80.89	174.72	295.40	3081
1086.00	1274.01	1249.01	2300	2346	80.65	174.23	294.62	2620
1088.00	1276.63	1251.63	2301	2347	80.48	173.88	294.07	2933
1090.00	1279.56	1254.56	2302	2348	80.26	173.44	293.38	3108
1092.00	1282.67	1257.67	2303	2349	80.02	172.94	292.59	3038
1094.00	1285.71	1260.71	2305	2351	79.79	172.47	291.85	2949
1096.00	1288.66	1263.66	2306	2352	79.57	172.03	291.16	3208
1098.00	1291.86	1266.86	2308	2354	79.31	171.51	290.33	3110
1100.00	1294.97	1269.97	2309	2356	79.08	171.02	289.56	3555
1102.00	1298.53	1273.53	2311	2358	78.77	170.39	288.55	

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
								3526
1104.00	1302.05	1277.05	2314	2361	78.46	169.76	287.56	3256
1106.00	1305.31	1280.31	2315	2363	78.21	169.24	286.72	3305
1108.00	1308.62	1283.62	2317	2365	77.95	168.70	285.87	3371
1110.00	1311.99	1286.99	2319	2367	77.67	168.15	284.98	3283
1112.00	1315.27	1290.27	2321	2369	77.42	167.62	284.15	3242
1114.00	1318.51	1293.51	2322	2371	77.17	167.12	283.35	3138
1116.00	1321.65	1296.65	2324	2373	76.94	166.65	282.60	3007
1118.00	1324.66	1299.66	2325	2374	76.73	166.22	281.92	3027
1120.00	1327.68	1302.68	2326	2375	76.52	165.79	281.24	3146
1122.00	1330.83	1305.83	2328	2377	76.30	165.32	280.49	3048
1124.00	1333.88	1308.88	2329	2378	76.08	164.89	279.81	3214
1126.00	1337.09	1312.09	2331	2380	75.85	164.41	279.04	3161
1128.00	1340.25	1315.25	2332	2381	75.62	163.94	278.30	3056
1130.00	1343.31	1318.31	2333	2383	75.41	163.51	277.62	3156
1132.00	1346.47	1321.47	2335	2384	75.19	163.06	276.89	3278
1134.00	1349.74	1324.74	2336	2386	74.95	162.57	276.11	3150
1136.00	1352.89	1327.89	2338	2388	74.74	162.12	275.39	3119
1138.00	1356.01	1331.01	2339	2389	74.52	161.68	274.70	3149
1140.00	1359.16	1334.16	2341	2391	74.31	161.24	273.99	3160
1142.00	1362.32	1337.32	2342	2392	74.09	160.79	273.28	3202
1144.00	1365.52	1340.52	2344	2394	73.87	160.34	272.55	3240
1146.00	1368.76	1343.76	2345	2396	73.65	159.87	271.81	3288
1148.00	1372.05	1347.05	2347	2398	73.42	159.40	271.05	3327
1150.00	1375.38	1350.38	2348	2400	73.18	158.92	270.28	

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
1152.00	1378.78	1353.78	2350	2402	72.94	158.41	269.47	3398
1154.00	1382.17	1357.17	2352	2404	72.70	157.92	268.67	3390
1156.00	1385.45	1360.45	2354	2406	72.47	157.45	267.93	3286
1158.00	1388.79	1363.79	2355	2407	72.24	156.98	267.17	3336
1160.00	1392.09	1367.09	2357	2409	72.02	156.52	266.43	3300
1162.00	1395.46	1370.46	2359	2411	71.79	156.04	265.66	3369
1164.00	1398.76	1373.76	2360	2413	71.57	155.58	264.93	3300
1166.00	1402.04	1377.04	2362	2415	71.35	155.13	264.21	3284
1168.00	1405.30	1380.30	2364	2417	71.14	154.70	263.50	3254
1170.00	1408.45	1383.45	2365	2418	70.94	154.29	262.85	3152
1172.00	1411.65	1386.65	2366	2420	70.74	153.87	262.18	3204
1174.00	1414.72	1389.72	2368	2421	70.56	153.49	261.56	3071
1176.00	1418.02	1393.02	2369	2423	70.34	153.05	260.86	3293
1178.00	1421.38	1396.38	2371	2424	70.12	152.59	260.12	3359
1180.00	1424.62	1399.62	2372	2426	69.92	152.17	259.44	3249
1182.00	1427.76	1402.76	2374	2427	69.73	151.78	258.82	3137
1184.00	1430.94	1405.94	2375	2429	69.54	151.38	258.18	3175
1186.00	1434.13	1409.13	2376	2430	69.34	150.98	257.53	3198
1188.00	1437.32	1412.32	2378	2432	69.15	150.58	256.89	3181
1190.00	1440.60	1415.60	2379	2434	68.95	150.16	256.21	3287
1192.00	1443.85	1418.85	2381	2435	68.75	149.75	255.55	3249
1194.00	1447.05	1422.05	2382	2437	68.56	149.36	254.92	3198
1196.00	1450.29	1425.29	2383	2438	68.37	148.95	254.27	3243
1198.00	1453.59	1428.59	2385	2440	68.17	148.54	253.60	3293

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
1200.00	1456.80	1431.80	2386	2441	67.98	148.14	252.96	3218
1202.00	1460.07	1435.07	2388	2443	67.79	147.74	252.31	3267
1204.00	1463.34	1438.34	2389	2445	67.59	147.34	251.66	3271
1206.00	1466.54	1441.54	2391	2446	67.41	146.96	251.05	3198
1208.00	1469.83	1444.83	2392	2448	67.22	146.55	250.40	3293
1210.00	1473.19	1448.19	2394	2449	67.02	146.14	249.72	3357
1212.00	1476.61	1451.61	2395	2451	66.81	145.71	249.02	3423
1214.00	1479.93	1454.93	2397	2453	66.62	145.30	248.37	3323
1216.00	1483.32	1458.32	2399	2455	66.42	144.88	247.69	3386
1218.00	1486.69	1461.69	2400	2457	66.22	144.47	247.02	3371
1220.00	1490.38	1465.38	2402	2459	65.98	143.98	246.22	3683
1222.00	1493.73	1468.73	2404	2461	65.79	143.58	245.57	3352
1224.00	1497.09	1472.09	2405	2463	65.60	143.18	244.92	3359
1226.00	1500.84	1475.84	2408	2465	65.36	142.68	244.10	3759
1228.00	1504.43	1479.43	2409	2468	65.14	142.22	243.37	3582
1230.00	1507.75	1482.75	2411	2469	64.96	141.84	242.74	3322
1232.00	1511.07	1486.07	2412	2471	64.78	141.45	242.12	3325
1234.00	1514.34	1489.34	2414	2472	64.60	141.09	241.52	3266
1236.00	1517.66	1492.66	2415	2474	64.42	140.71	240.91	3317
1238.00	1520.90	1495.90	2417	2475	64.25	140.35	240.33	3247
1240.00	1524.34	1499.34	2418	2477	64.05	139.95	239.67	3436
1242.00	1527.95	1502.95	2420	2479	63.84	139.51	238.95	3607
1244.00	1531.46	1506.46	2422	2481	63.65	139.09	238.28	3512
1246.00	1535.02	1510.02	2424	2484	63.44	138.67	237.58	3564

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
								3478
1248.00	1538.50	1513.50	2425	2485	63.25	138.26	236.93	3428
1250.00	1541.93	1516.93	2427	2487	63.07	137.87	236.29	4111
1252.00	1546.04	1521.04	2430	2491	62.80	137.32	235.38	3973
1254.00	1550.01	1525.01	2432	2494	62.55	136.80	234.53	3508
1256.00	1553.52	1528.52	2434	2496	62.36	136.40	233.88	3135
1258.00	1556.66	1531.66	2435	2497	62.21	136.08	233.37	3839
1260.00	1560.50	1535.50	2437	2500	61.99	135.61	232.59	3907
1262.00	1564.40	1539.40	2440	2502	61.76	135.12	231.79	3688
1264.00	1568.09	1543.09	2442	2505	61.55	134.69	231.08	3439
1266.00	1571.53	1546.53	2443	2506	61.38	134.32	230.48	3504
1268.00	1575.03	1550.03	2445	2508	61.19	133.94	229.85	3549
1270.00	1578.58	1553.58	2447	2510	61.01	133.54	229.21	3576
1272.00	1582.16	1557.16	2448	2512	60.82	133.15	228.56	3795
1274.00	1585.95	1560.95	2450	2515	60.61	132.71	227.84	3713
1276.00	1589.67	1564.67	2452	2517	60.41	132.28	227.14	3666
1278.00	1593.33	1568.33	2454	2519	60.22	131.88	226.48	3590
1280.00	1596.92	1571.92	2456	2521	60.03	131.49	225.84	3386
1282.00	1600.31	1575.31	2458	2523	59.87	131.14	225.28	3483
1284.00	1603.79	1578.79	2459	2525	59.70	130.78	224.69	3486
1286.00	1607.28	1582.28	2461	2527	59.53	130.42	224.10	3507
1288.00	1610.78	1585.78	2462	2528	59.36	130.06	223.50	3710
1290.00	1614.50	1589.50	2464	2531	59.16	129.66	222.84	3461
1292.00	1617.96	1592.96	2466	2532	59.00	129.31	222.27	3513
1294.00	1621.47	1596.47	2467	2534	58.83	128.95	221.68	

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
								3633
1296.00	1625.10	1600.10	2469	2536	58.65	128.57	221.05	3581
1298.00	1628.68	1603.68	2471	2538	58.48	128.20	220.45	3505
1300.00	1632.19	1607.19	2473	2540	58.31	127.85	219.87	3495
1302.00	1635.68	1610.68	2474	2542	58.15	127.51	219.31	3576
1304.00	1639.26	1614.26	2476	2544	57.98	127.15	218.71	3607
1306.00	1642.87	1617.87	2478	2546	57.80	126.78	218.11	3618
1308.00	1646.48	1621.48	2479	2548	57.63	126.41	217.51	3921
1310.00	1650.40	1625.40	2482	2550	57.43	125.99	216.81	4012
1312.00	1654.42	1629.42	2484	2553	57.22	125.54	216.07	3853
1314.00	1658.27	1633.27	2486	2556	57.03	125.13	215.40	3570
1316.00	1661.84	1636.84	2488	2557	56.86	124.79	214.83	3617
1318.00	1665.46	1640.46	2489	2559	56.70	124.43	214.25	3742
1320.00	1669.20	1644.20	2491	2562	56.52	124.06	213.62	3586
1322.00	1672.78	1647.78	2493	2563	56.36	123.71	213.06	3913
1324.00	1676.70	1651.70	2495	2566	56.16	123.31	212.38	3399
1326.00	1680.10	1655.10	2496	2567	56.02	123.00	211.88	3461
1328.00	1683.56	1658.56	2498	2569	55.87	122.69	211.37	3418
1330.00	1686.98	1661.98	2499	2571	55.73	122.38	210.86	3659
1332.00	1690.63	1665.63	2501	2573	55.56	122.03	210.29	3613
1334.00	1694.25	1669.25	2503	2574	55.40	121.70	209.73	3340
1336.00	1697.59	1672.59	2504	2576	55.27	121.41	209.26	3170
1338.00	1700.76	1675.76	2505	2577	55.15	121.16	208.84	3299
1340.00	1704.06	1679.06	2506	2578	55.02	120.88	208.39	3318
1342.00	1707.37	1682.37	2507	2579	54.89	120.60	207.93	

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
								3509
1344.00	1710.88	1685.88	2509	2581	54.74	120.29	207.41	3774
1346.00	1714.66	1689.66	2511	2583	54.57	119.93	206.82	3613
1348.00	1718.27	1693.27	2512	2585	54.42	119.60	206.28	3449
1350.00	1721.72	1696.72	2514	2586	54.28	119.31	205.79	4037
1352.00	1725.76	1700.76	2516	2589	54.09	118.91	205.12	4029
1354.00	1729.78	1704.78	2518	2592	53.90	118.51	204.46	3700
1356.00	1733.48	1708.48	2520	2594	53.74	118.17	203.90	3766
1358.00	1737.25	1712.25	2522	2596	53.58	117.83	203.33	3982
1360.00	1741.23	1716.23	2524	2598	53.40	117.44	202.70	3640
1362.00	1744.87	1719.87	2526	2600	53.25	117.12	202.17	3621
1364.00	1748.49	1723.49	2527	2602	53.11	116.81	201.65	3359
1366.00	1751.85	1726.85	2528	2603	52.98	116.54	201.21	3495
1368.00	1755.35	1730.35	2530	2605	52.84	116.26	200.73	3541
1370.00	1758.89	1733.89	2531	2606	52.71	115.96	200.25	3642
1372.00	1762.53	1737.53	2533	2608	52.56	115.65	199.73	3681
1374.00	1766.21	1741.21	2535	2610	52.41	115.34	199.21	3673
1376.00	1769.88	1744.88	2536	2612	52.27	115.02	198.69	3739
1378.00	1773.62	1748.62	2538	2614	52.12	114.70	198.16	3618
1380.00	1777.24	1752.24	2539	2616	51.97	114.40	197.66	3575
1382.00	1780.82	1755.82	2541	2617	51.84	114.11	197.18	3629
1384.00	1784.45	1759.45	2543	2619	51.70	113.81	196.68	3637
1386.00	1788.08	1763.08	2544	2621	51.56	113.52	196.19	3675
1388.00	1791.76	1766.76	2546	2623	51.42	113.21	195.68	3592
1390.00	1795.35	1770.35	2547	2624	51.28	112.93	195.20	

PE600039

This is an enclosure indicator page.
The enclosure PE600039 is enclosed within the
container PE900172 at this location in this
document.

The enclosure PE600039 has the following characteristics:

ITEM_BARCODE = PE600039
CONTAINER_BARCODE = PE900172
 NAME = ERIC THE RED 1 GEOGRAM (Synthetic
 Seismogram) 25Hz
 BASIN = Otway
 PERMIT = VIC/P31
 TYPE = WELL
 SUBTYPE = WELL_LOG
 DESCRIPTION = ERIC THE RED 1 GEOGRAM (Synthetic
 Seismogram) 25Hz
 REMARKS =
 DATE_CREATED = 5/03/92
 DATE_RECEIVED = 15/12/93
 W_NO = W1077
 WELL_NAME = ERIC THE RED 1
 CONTRACTOR = SCHLUMBERGER
 CLIENT_OP_CO = BHP

(Inserted by DNRE - Vic Govt Mines Dept)

PE600040

This is an enclosure indicator page.
The enclosure PE600040 is enclosed within the
container PE900172 at this location in this
document.

The enclosure PE600040 has the following characteristics:

ITEM_BARCODE = PE600040
CONTAINER_BARCODE = PE900172
 NAME = ERIC THE RED 1 GEOGRAM (Synthetic
 Seismogram) 35Hz
 BASIN = Otway
 PERMIT = VIC/P31
 TYPE = WELL
 SUBTYPE = WELL_LOG
DESCRIPTION = ERIC THE RED 1 GEOGRAM (Synthetic
 Seismogram) 35Hz
REMARKS =
DATE_CREATED = 5/03/92
DATE_RECEIVED = 15/12/93
 W_NO = W1077
 WELL_NAME = ERIC THE RED 1
CONTRACTOR = SCHLUMBERGER
CLIENT_OP_CO = BHP

(Inserted by DNRE - Vic Govt Mines Dept)

PE600041

This is an enclosure indicator page.
The enclosure PE600041 is enclosed within the
container PE900172 at this location in this
document.

The enclosure PE600041 has the following characteristics:

ITEM_BARCODE = PE600041
CONTAINER_BARCODE = PE900172
NAME = ERIC THE RED 1 GEOGRAM (Synthetic
Seismogram) 45Hz
BASIN = Otway
PERMIT = VIC/P31
TYPE = WELL
SUBTYPE = WELL_LOG
DESCRIPTION = ERIC THE RED 1 GEOGRAM (Synthetic
Seismogram) 45Hz
REMARKS =
DATE_CREATED = 5/03/92
DATE_RECEIVED = 15/12/93
W_NO = W1077
WELL_NAME = ERIC THE RED 1
CONTRACTOR = SCHLUMBERGER
CLIENT_OP_CO = BHP

(Inserted by DNRE - Vic Govt Mines Dept)

PE600042

This is an enclosure indicator page.
The enclosure PE600042 is enclosed within the
container PE900172 at this location in this
document.

The enclosure PE600042 has the following characteristics:

ITEM_BARCODE = PE600042
CONTAINER_BARCODE = PE900172
NAME = ERIC THE RED 1 SEISMIC CALIBRATION LOG
(ADJUSTED CONTINUOUS VELOCITY LOG)
BASIN = Otway
PERMIT = VIC/P31
TYPE = WELL
SUBTYPE = WELL_LOG
DESCRIPTION = ERIC THE RED 1 SEISMIC CALIBRATION LOG
(ADJUSTED CONTINUOUS VELOCITY LOG)
REMARKS =
DATE_CREATED = 5/03/92
DATE_RECEIVED = 15/12/93
W_NO = W1077
WELL_NAME = ERIC THE RED 1
CONTRACTOR = SCHLUMBERGER
CLIENT_OP_CO = BHP

(Inserted by DNRE - Vic Govt Mines Dept)

PE600043

This is an enclosure indicator page.
The enclosure PE600043 is enclosed within the
container PE900172 at this location in this
document.

The enclosure PE600043 has the following characteristics:

ITEM_BARCODE = PE600043
CONTAINER_BARCODE = PE900172
NAME = ERIC THE RED 1 DRIFT CORRECTED SONIC
LOG
BASIN = Otway
PERMIT = VIC/P31
TYPE = WELL
SUBTYPE = WELL_LOG
DESCRIPTION = ERIC THE RED 1 DRIFT CORRECTED SONIC
LOG
REMARKS =
DATE_CREATED = 5/03/92
DATE_RECEIVED = 15/12/93
W_NO = W1077
WELL_NAME = ERIC THE RED 1
CONTRACTOR = SCHLUMBERGER
CLIENT_OP_CO = BHP

(Inserted by DNRE - Vic Govt Mines Dept)

PE600044

This is an enclosure indicator page.
The enclosure PE600044 is enclosed within the
container PE900172 at this location in this
document.

The enclosure PE600044 has the following characteristics:

- ITEM_BARCODE = PE600044
- CONTAINER_BARCODE = PE900172
- NAME = ERIC THE RED 1 VERTICAL SEISMIC PROFILE
(STACKED DATA) PLOT 1
- BASIN = Otway
- PERMIT = VIC/P31
- TYPE = WELL
- SUBTYPE = WELL_LOG
- DESCRIPTION = ERIC THE RED 1 VERTICAL SEISMIC PROFILE
(STACKED DATA) PLOT 1
- REMARKS =
- DATE_CREATED = 5/03/92
- DATE_RECEIVED = 15/12/93
- W_NO = W1077
- WELL_NAME = ERIC THE RED 1
- CONTRACTOR = SCHLUMBERGER
- CLIENT_OP_CO = BHP

(Inserted by DNRE - Vic Govt Mines Dept)

PE600045

This is an enclosure indicator page.
The enclosure PE600045 is enclosed within the
container PE900172 at this location in this
document.

The enclosure PE600045 has the following characteristics:

ITEM_BARCODE = PE600045
CONTAINER_BARCODE = PE900172
NAME = ERIC THE RED 1VERTICAL SEISMIC PROFILE
(AMPLITUDE RECOVERY) PLOT 2
BASIN = Otway
PERMIT = VIC/P31
TYPE = WELL
SUBTYPE = WELL_LOG
DESCRIPTION = ERIC THE RED 1VERTICAL SEISMIC PROFILE
(AMPLITUDE RECOVERY) PLOT 2
REMARKS =
DATE_CREATED = 5/03/92
DATE_RECEIVED = 15/12/93
W_NO = W1077
WELL_NAME = ERIC THE RED 1
CONTRACTOR = SCHLUMBERGER
CLIENT_OP_CO = BHP

(Inserted by DNRE - Vic Govt Mines Dept)

PE600046

This is an enclosure indicator page.
The enclosure PE600046 is enclosed within the
container PE900172 at this location in this
document.

The enclosure PE600046 has the following characteristics:

- ITEM_BARCODE = PE600046
- CONTAINER_BARCODE = PE900172
- NAME = ERIC THE RED 1 VERTICAL SEISMIC PROFILE
(VELOCITY FILTERING) PLOT 3
- BASIN = Otway
- PERMIT = VIC/P31
- TYPE = WELL
- SUBTYPE = WELL_LOG
- DESCRIPTION = ERIC THE RED 1 VERTICAL SEISMIC PROFILE
(VELOCITY FILTERING) PLOT 3
- REMARKS =
- DATE_CREATED = 5/03/92
- DATE_RECEIVED = 15/12/93
- W_NO = W1077
- WELL_NAME = ERIC THE RED 1
- CONTRACTOR = SCHLUMBERGER
- CLIENT_OP_CO = BHP

(Inserted by DNRE - Vic Govt Mines Dept)

PE600047

This is an enclosure indicator page.
The enclosure PE600047 is enclosed within the
container PE900172 at this location in this
document.

The enclosure PE600047 has the following characteristics:

- ITEM_BARCODE = PE600047
- CONTAINER_BARCODE = PE900172
- NAME = ERIC THE RED 1 VERTICAL SEISMIC PROFILE
(WAVESHAPING DECONVOLUTION) PLOT 4
- BASIN = Otway
- PERMIT = VIC/P31
- TYPE = WELL
- SUBTYPE = WELL_LOG
- DESCRIPTION = ERIC THE RED 1 VERTICAL SEISMIC PROFILE
(WAVESHAPING DECONVOLUTION) PLOT 4
- REMARKS =
- DATE_CREATED = 5/03/92
- DATE_RECEIVED = 15/12/93
- W_NO = W1077
- WELL_NAME = ERIC THE RED 1
- CONTRACTOR = SCHLUMBERGER
- CLIENT_OP_CO = BHP

(Inserted by DNRE - Vic Govt Mines Dept)

PE600048

This is an enclosure indicator page.
The enclosure PE600048 is enclosed within the
container PE900172 at this location in this
document.

The enclosure PE600048 has the following characteristics:

- ITEM_BARCODE = PE600048
- CONTAINER_BARCODE = PE900172
- NAME = ERIC THE RED 1 VERTICAL SEISMIC PROFILE
(WAVESHAPING AND CORRIDOR STACK) PLOT
5
- BASIN = Otway
- PERMIT = VIC/P31
- TYPE = WELL
- SUBTYPE = WELL_LOG
- DESCRIPTION = ERIC THE RED 1 VERTICAL SEISMIC PROFILE
(WAVESHAPING AND CORRIDOR STACK) PLOT
5
- REMARKS =
- DATE_CREATED = 5/03/92
- DATE_RECEIVED = 15/12/93
- W_NO = W1077
- WELL_NAME = ERIC THE RED 1
- CONTRACTOR = SCHLUMBERGER
- CLIENT_OP_CO = BHP

(Inserted by DNRE - Vic Govt Mines Dept)

PE600049

This is an enclosure indicator page.
The enclosure PE600049 is enclosed within the
container PE900172 at this location in this
document.

The enclosure PE600049 has the following characteristics:

- ITEM_BARCODE = PE600049
- CONTAINER_BARCODE = PE900172
- NAME = ERIC THE RED 1 VERTICAL SEISMIC PROFILE
(WAVESHAPING AND CORRIDOR STACK AGC
APPLIED) PLOT 6
- BASIN = Otway
- PERMIT = VIC/P31
- TYPE = WELL
- SUBTYPE = WELL_LOG
- DESCRIPTION = ERIC THE RED 1 VERTICAL SEISMIC PROFILE
(WAVESHAPING AND CORRIDOR STACK AGC
APPLIED) PLOT 6
- REMARKS =
- DATE_CREATED = 5/03/92
- DATE_RECEIVED = 15/12/93
- W_NO = W1077
- WELL_NAME = ERIC THE RED 1
- CONTRACTOR = SCHLUMBERGER
- CLIENT_OP_CO = BHP

(Inserted by DNRE - Vic Govt Mines Dept)

PE600050

This is an enclosure indicator page.
The enclosure PE600050 is enclosed within the
container PE900172 at this location in this
document.

The enclosure PE600050 has the following characteristics:

- ITEM_BARCODE = PE600050
- CONTAINER_BARCODE = PE900172
- NAME = ERIC THE RED 1 VERTICAL SEISMIC PROFILE
(VSP AND GEOGRAM COMPOSITE NORMAL
POLARITY) PLOT 7
- BASIN = Otway
- PERMIT = VIC/P31
- TYPE = WELL
- SUBTYPE = WELL_LOG
- DESCRIPTION = ERIC THE RED 1 VERTICAL SEISMIC PROFILE
(VSP AND GEOGRAM COMPOSITE NORMAL
POLARITY) PLOT 7
- REMARKS =
- DATE_CREATED = 5/03/92
- DATE_RECEIVED = 15/12/93
- W_NO = W1077
- WELL_NAME = ERIC THE RED 1
- CONTRACTOR = SCHLUMBERGER
- CLIENT_OP_CO = BHP

(Inserted by DNRE - Vic Govt Mines Dept)

PE600051

This is an enclosure indicator page.
The enclosure PE600051 is enclosed within the
container PE900172 at this location in this
document.

The enclosure PE600051 has the following characteristics:

- ITEM_BARCODE = PE600051
- CONTAINER_BARCODE = PE900172
- NAME = ERIC THE RED 1 VERTICAL SEISMIC PROFILE
(VSP AND GEOGRAM COMPOSITE REVERSE
POLARITY) PLOT 8
- BASIN = Otway
- PERMIT = VIC/P31
- TYPE = WELL
- SUBTYPE = WELL_LOG
- DESCRIPTION = ERIC THE RED 1 VERTICAL SEISMIC PROFILE
(VSP AND GEOGRAM COMPOSITE REVERSE
POLARITY) PLOT 8
- REMARKS =
- DATE_CREATED = 5/03/92
- DATE_RECEIVED = 15/12/93
- W_NO = W1077
- WELL_NAME = ERIC THE RED 1
- CONTRACTOR = SCHLUMBERGER
- CLIENT_OP_CO = BHP

(Inserted by DNRE - Vic Govt Mines Dept)