

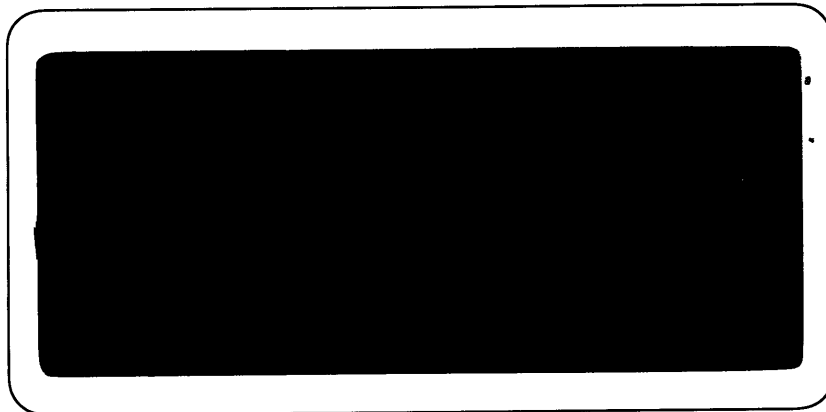
ATTACHMENT TO

DEPT. NAT. RES & ENV



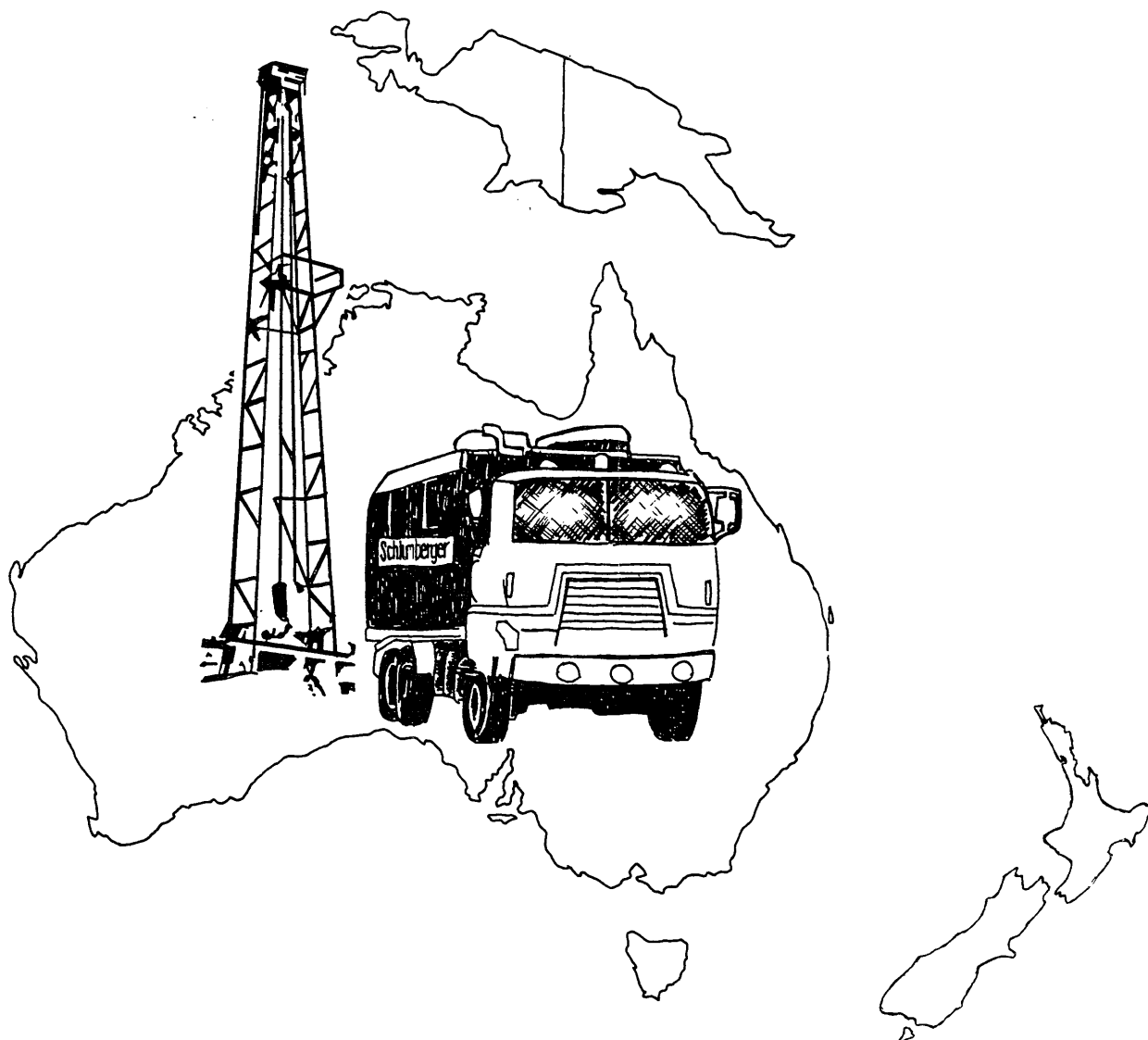
PE904281

WCR VOL 1 : MOONFISH



W1064

W1065



Schlumberger

Schlumberger

ESSO AUSTRALIA LTD

OK
SONIC CALIBRATION
AND GEOGRAM
PROCESSING REPORT

20 JAN 1993

PETROLEUM DIVISION

MOONFISH-1 ST-1

FIELD : WILDCAT

COUNTRY : AUSTRALIA

COORDINATES : 38° 15' 0" S
148° 00' 8" E

DATE OF SURVEY : 14 JULY 1992

REFERENCE NO. : SYJ-560808

INTERVAL : 2800.0 - 185.0 M

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1. Introduction

A checkshot survey of the MOONFISH-1 ST-1 deviated well has been used to calibrate the sonic log and generate synthetic seismograms using 25,35,45 hertz zero phase Ricker wavelets with a -90 degrees phase shift. The final presentation includes synthetic seismograms, at 20 cm/sec as well as a drift corrected sonic plot and a seismic calibration log.

2. Data Acquisition

The data was acquired with the CSAT acquisition tool. Recording was made on the MAXIS Unit using DLIS format.

Table 1: Survey Parameters

Datum	MSL
Elevation KB	23 metres AMSL
Elevation GL	52.0 metres below MSL
Total Depth	2795 metres below KB
Energy Source	Airgun
Source Offset	Moving source
Source Depth	10 metre below MSL
Reference Sensor	Hydrophone
Hydrophone Offset	Vertically below source
Hydrophone Depth	15 metres below MSL

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

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

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

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

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

3.2 Correction to Datum

The corrected sonic log is indexed to true vertical depth and referenced to mean sea level. Static corrections are applied to correct for source offset and source depth by assuming a water velocity of 1524 metres/sec.

3.3 Open Hole Logs

The sonic log has been recorded from 2800.0 to 185.0 metres below KB. The overall log quality is good with small zones having been patched out. A density log was recorded from TD up to 1541 metres and is extrapolated to the surface with a constant density value.

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

3.4 Sonic Calibration Results

The top of the sonic log (185 metres below KB) is chosen as the origin for the calibration drift curve. The drift curve indicates a number of corrections to be made to the sonic log. The adjusted sonic curve is considered to be the best result using the available data. A list of shifts used on the sonic data is given in the adjusted sonic parameter report.

4. Synthetic Seismogram Processing

GEOGRAM plots were generated using 25,35,45 HZ zero phase Ricker wavelets with a negative 90 degrees phase shift .

The presentations include both normal and reverse polarity on a time scale of 20cm/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 mil-lisecs). Reflection coefficients are then computed using:

$$R = \frac{\rho_2 \cdot \nu_2 - \rho_1 \cdot \nu_1}{\rho_2 \cdot \nu_2 + \rho_1 \cdot \nu_1}$$

where:

- ρ_1 = density of the layer above the reflection interface
- ρ_2 = density of the layer below the reflection interface
- ν_1 = compressional wave velocity of the layer above the reflection interface
- ν_2 = compressional wave velocity of the layer below the reflection interface

This computation is done for each time interval to generate a set of primary reflection coefficients without transmission losses.

4.3 Primaries with Transmission Loss

Transmission loss on two-way attenuation coefficients is computed using:

$$A_n = (1 - R_1^2).(1 - R_2^2).(1 - R_3^2)...(1 - R_n^2)$$

A set of primary reflection coefficients with transmission loss is generated using:

$$Primary_n = R_n.A_{n-1}$$

4.4 Primaries plus Multiples

Multiples are computed from these input reflection coefficients using the transform technique from the top of the well to obtain the impulse response of the earth. The transform outputs primaries plus multiples.

4.5 Multiples Only

By subtracting previously calculated primaries from the above result we obtain multiples only.

4.6 Wavelet

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

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

Time variant Butterworth filtering can be applied after convolution.

4.7 Polarity Convention

An increase in acoustic impedance gives a positive reflection coefficient, is written to tape as a negative number and is displayed as a white trough under normal polarity. Polarity conventions are displayed in Figure-1.

4.8 Convolution

The standard procedure of convolving the wavelet with reflection coefficients; the output is the synthetic seismogram.

A Summary of Geophysical Listings

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

A1 Geophysical Airgun Report

1. Level number : the level number starting from the top level (includes any imposed shots).
2. Measured depth from KB : dkb , the depth in meters from kelly bushing .
3. Vertical depth from SRD : $dsrd$, the depth in meters from seismic reference datum.
4. Vertical depth from GL : dgl , the depth in meters from ground level.
5. 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.
6. Vertical travel time SRC to GEO : $timv$, is corrected for source to hydrophone distance and for source offset.
7. Vertical travel time SRD to GEO : $shtm$, is $timv$ corrected for the vertical distance between source and datum.
8. Average velocity SRD to GEO : the average seismic velocity from datum to the corresponding checkshot level, $\frac{dsrd}{shtm}$.
9. Delta depth between shots : $\Delta depth$, the vertical distance between each level.
10. Delta time between shots : $\Delta time$, the difference in vertical travel time ($shtm$) between each level.
11. Interval velocity between shots : the average seismic velocity between each level, $\frac{\Delta depth}{\Delta time}$.

A2 Drift Computation Report

1. Level number : the level number starting from the top level (includes any imposed shots).
2. Vertical depth from KB : the depth in meters from kelly bushing .
3. Vertical depth from SRD : the depth in meters from seismic reference datum.
4. Vertical depth from GL : the depth in meters from ground level.
5. Vertical travel time SRD to GEO : the calculated vertical travel time from datum to downhole geophone (see column 7, Geophysical Airgun Report).

6. 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.
7. Computed drift at level : the checkshot time minus the integrated raw sonic time.
8. Computed blk-shft correction : the drift gradient between any two checkshot levels ($\frac{\Delta drift}{\Delta depth}$).

A3 Sonic Adjustment Parameter Report

1. Knee number : the knee number starting from the highest knee. (The first knees listed will generally be at SRD and the top of sonic. The drift imposed at these knees will normally be zero.)
2. Vertical depth from KB : the depth in meters from kelly bushing .
3. Vertical depth from SRD : the depth in meters from seismic reference datum.
4. Vertical depth from GL : the depth in meters from ground level.
5. Drift at knee : the value of drift imposed at each knee.
6. Blockshift used : the change in drift divided by the change in depth between any two levels.
7. Delta-T minimum used : see section 4 of report for an explanation of Δt_{min} .
8. Reduction factor : see section 4 of report.
9. Equivalent blockshift : the gradient of the imposed drift curve.

A4 Velocity Report

1. Level number : the level number starting from the top level (includes any imposed shots).
2. Vertical depth from KB : the depth in meters from kelly bushing .
3. Vertical depth from SRD : the depth in meters from seismic reference datum
4. Vertical depth from GL : the depth in meters from ground level
5. Vertical travel time SRD to GEOPH : the vertical travel time from SRD to downhole geophone (see column 7, Geophysical Airgun Report)
6. Integrated adjusted sonic time : the adjusted sonic log is integrated from top to bottom. An initial value at the the top of the sonic is set equal the checkshot time at that level. (The adjusted sonic log is the drift corrected sonic log.)

7. Drift=shot time-raw sonic : the check shot time minus the raw integrated sonic time.
8. 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.
9. 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 millisecs interval.

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

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

where:

$$\begin{aligned} \Delta t &= \text{normal moveout (secs)} \\ X &= \text{moveout distance (meters)} \\ t &= \text{two way time (secs)} \\ v_{rms} &= \text{rms velocity (meters /sec)} \end{aligned}$$

7. Second normal moveout : the correction time in millisecs to be applied to the two way travel time for a specified moveout distance (default = 4500 feet).
8. Third normal moveout : the correction time in millisecs to be applied to the two way travel time for a specified moveout distance (default = 6000 feet).

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

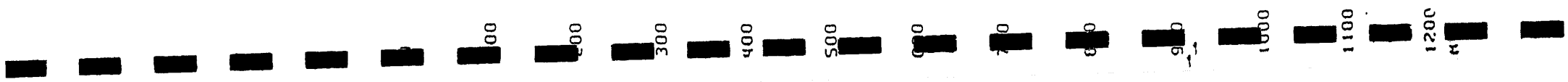
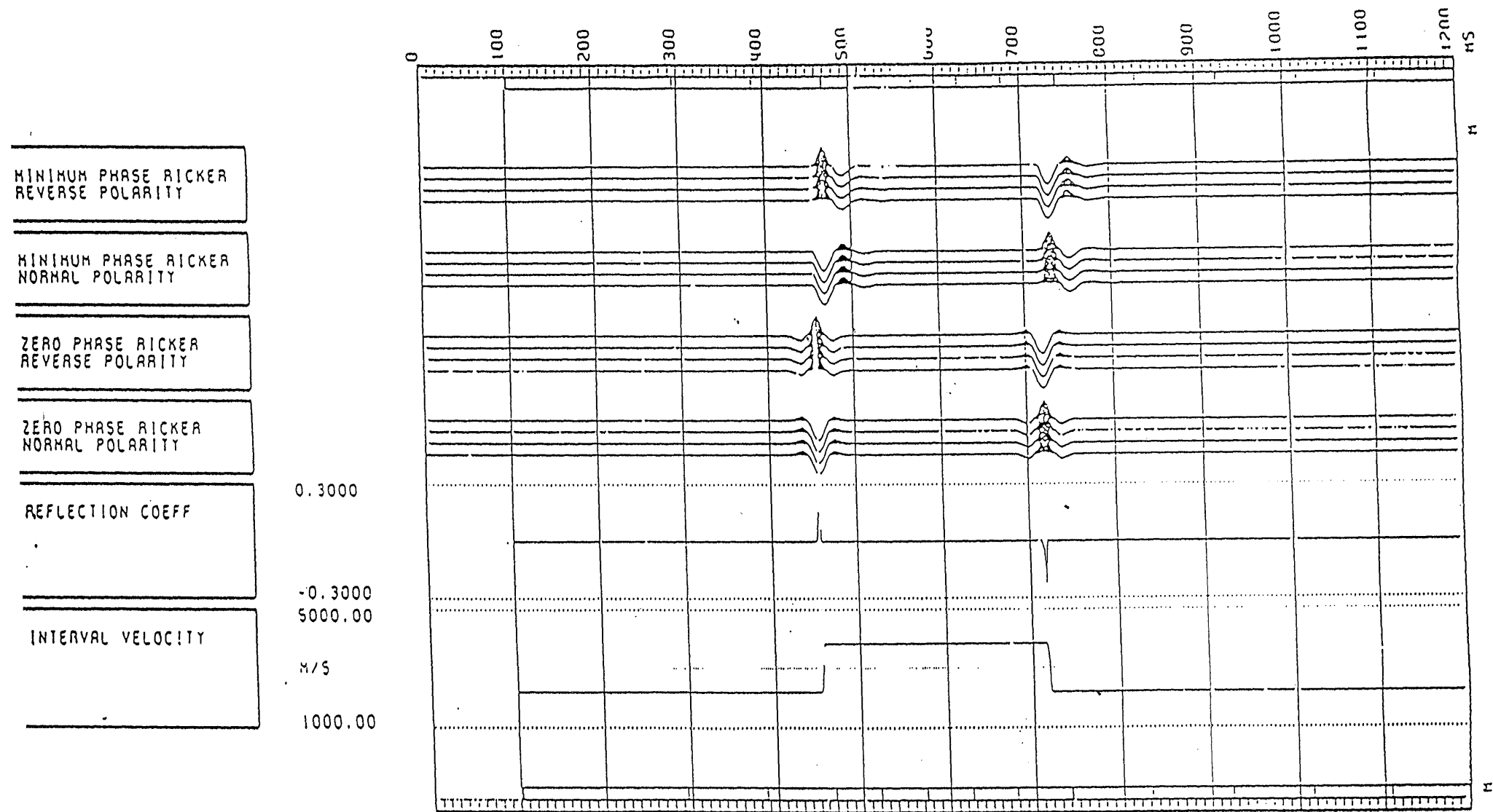
LIST OF ENCLOSURES

Drift Corrected Sonic
Seismic Calibration Log
25 hz zero phase Geogram 20 cm/sec
35 hz zero phase Geogram 20 cm/sec
45 hz zero phase Geogram 20 cm/sec

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

SCHLUMBERGER (SEG-1978) WAVELET POLARITY CONVENTION

Figure 1

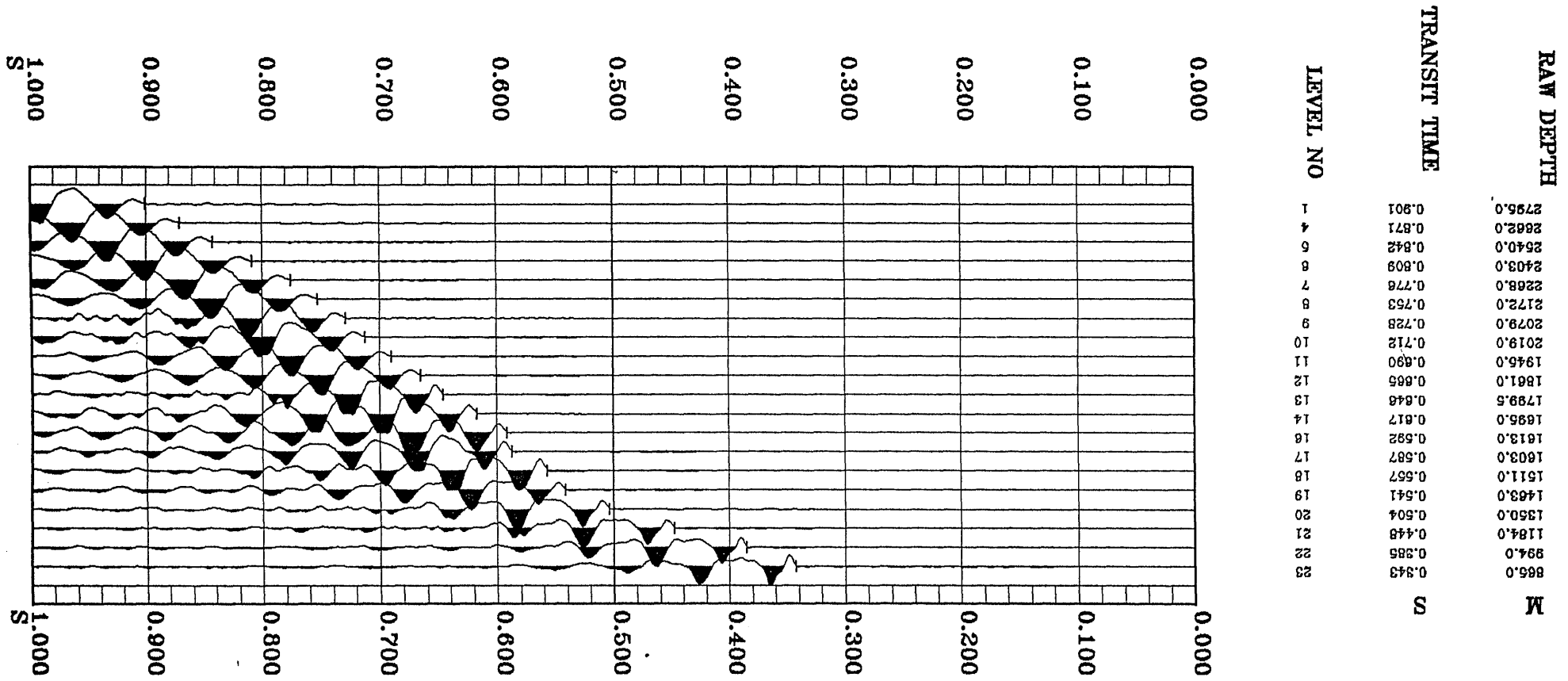


CLIENT = ESSO AUSTRALIA LTD.

FIELD = WILDCAT

WELL = MOONFISH-1 ST-1

Figure 2



SHOTS

ANALYST: T. BOWMAN

11-AUG-92 09:36:11

PROGRAM: GSHOT 007.E08

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*                                     *  
*   SCHLUMBERGER                     *  
*                                     *  
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GEOPHYSICAL AIRGUN REPORT

COMPANY : ESSO AUSTRALIA LTD
WELL : MOONFISH #1
FIELD : WILDCAT
STATE : VICTORIA
COUNTRY : AUSTRALIA
REFERENCE: 560308
LOGGED : 13-JUL-92

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)
 GUNEMZ - 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)
 HYDEMZ - HYDROPHONE DISTANCE FROM THE BOREH AXIS IN EW DIRECTION (CF GUNELZ)
 HYDNMZ - 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
 DEVMEL - 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)
 TIND.GSH - TIE IN MEMORIZED OUTPUT
 TIMV.GSH - VERTICAL TRAVEL TIME FROM THE SOURCE TO THE GEOPHONE
 SHIP.GSH - SHOT TIME (WST)
 AVSV.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	:	23.0000	M
ELEV OF SRD AB. MSL(WST)	SRD	:	0	M
ELEVATION OF KELLY BUSHI	EKB	:	23.0000	M
ELEV OF GL AB. SRD (WST)	GL	:	-52.0000	M
VEL SOURCE-HYDRO(WST)	VELHYD	:	1524.00	M/S
VEL SOURCE-SRD (WST)	VELSUR	:	1524.00	M/S

(MATRIX PARAMETERS)

	SOURCE ELV M	SOURCE EW M	SOURCE NS M	HYDRO ELEV M	HYDRO EW M	HYDRO NS M
1	-10.00	0	0	-15.00	0	0
2	-10.00	0	0	-15.00	0	0
3	-10.00	112.66	23.64	-15.00	112.66	23.64
4	-10.00	175.81	29.77	-15.00	175.81	29.77
5	-10.00	252.41	-1.19	-15.00	252.41	-1.19
6	-10.00	301	-49.86	-15.00	301.17	-49.86
7	-10.00	333.79	-84.03	-15.00	333.79	-84.03
8	-10.00	347.43	-98.31	-15.00	347.43	-98.31
9	-10.00	373.55	-125.28	-15.00	373.55	-125.28
10	-10.00	376.45	-128.16	-15.00	376.45	-128.16
11	-10.00	399.94	-151.44	-15.00	399.94	-151.44
12	-10.00	429.36	-180.22	-15.00	429.36	-180.22
13	-10.00	445.57	-196.43	-15.00	445.57	-196.43
14	-10.00	466.48	-217.62	-15.00	466.48	-217.62
15	-10.00	485.28	-237.84	-15.00	485.28	-237.84
16	-10.00	501.15	-254.58	-15.00	501.15	-254.58
17	-10.00	526.94	-281.24	-15.00	526.94	-281.24
18	-10.00	555.16	-311.16	-15.00	555.16	-311.16
19	-10.00	590.26	-348.24	-15.00	590.26	-348.24
20	-10.00	621.49	-381.00	-15.00	621.49	-381.00
21	-10.00	652.96	-414.54	-15.00	652.96	-414.54
22	-10.00	694.89	-459.24	-15.00	694.89	-459.24

TRT HYD-06
00

TRT SC-SRD
00

1	0.56
2	0.56
3	0.56
4	0.56
5	0.56
6	0.56
7	0.56
8	0.56
9	0.56
10	0.56
11	0.56
12	0.56
13	0.56
14	0.56
15	0.56
16	0.56
17	0.56
18	0.56
19	0.56
20	0.56
21	0.56
22	0.56

20	3.28	6.56
21	3.28	6.56
22	3.28	6.56

	MD @ KB M	VD @ KB M	VD @ SRD M	E-W COORD M	N-S COORD M
1	75.00	75.00	52.00	0	0
2	185.01	185.01	162.01	- .09	- .18
3	365.04	840.31	817.31	112.67	23.63
4	994.00	952.38	929.38	175.83	29.76
5	1184.00	1122.76	1099.76	252.41	-1.22
6	1350.00	1273.76	1250.76	301.19	-49.88
7	1463.00	1376.43	1353.42	333.77	-84.05
8	1511.00	1420.17	1397.17	347.40	-98.35
9	1603.00	1504.15	1481.15	373.57	-125.31
10	1613.00	1513.28	1490.28	376.44	-128.21
11	1695.00	1588.26	1565.26	400.06	-151.53
12	1799.50	1684.37	1661.37	429.33	-180.26
13	1861.00	1741.43	1718.43	445.58	-196.45
14	1945.00	1819.96	1796.96	466.48	-217.71
15	2019.00	1883.63	1865.63	485.27	-237.87
16	2079.00	1944.02	1921.02	501.11	-254.65
17	2172.00	2029.29	2006.29	526.92	-281.29
18	2268.00	2116.04	2093.04	555.13	-311.21
19	2403.00	2240.97	2217.97	590.24	-348.26
20	2540.03	2370.29	2347.29	621.46	-381.04
21	2662.00	2483.22	2460.22	652.90	-414.65
22	2795.00	2601.20	2578.20	694.84	-459.31

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	75.00	52.00	0	24.27	27.55	34.11	1524			
2	185.01	162.01	110.01	87.00	90.28	96.84	1673	110.01	62.73	1754
3	865.04	817.31	765.31	342.60	345.88	352.44	2319	655.30	255.60	2564
4	994.00	929.38	877.38	384.82	388.10	394.66	2355	112.06	42.22	2654
5	1184.00	1099.76	1047.76	447.82	451.10	457.66	2403	170.39	63.00	2705
6	1350.00	1250.76	1198.76	503.79	507.07	513.63	2435	151.00	55.97	2698
7	1463.00	1353.42	1301.43	540.94	544.22	550.78	2457	102.66	37.15	2763
8	1511.00	1397.17	1345.17	556.94	560.22	566.78	2465	43.74	16.00	2734
9	1603.00	1481.15	1429.15	587.25	590.53	597.09	2481	83.98	30.31	2771
10	1613.00	1490.28	1438.28	591.68	594.96	601.52	2478	9.13	4.43	2060
11	1695.00	1565.26	1513.26	616.72	620.00	626.56	2498	74.98	25.04	2994
12	1799.50	1661.37	1609.37	646.07	649.35	655.91	2533	96.11	29.35	3275
13	1861.00	1718.43	1666.43	665.05	668.33	674.89	2546	57.06	18.98	3006
14	1945.00	1796.96	1744.96	689.94	693.22	699.78	2568	78.53	24.89	3155
15	2019.00	1865.63	1813.63	711.98	715.26	721.82	2585	68.68	22.04	3116
16	2079.00	1921.02	1869.02	728.49	731.77	738.33	2602	55.39	16.51	3355
17	2172.00	2006.29	1954.29	752.74	756.02	762.58	2631	85.27	24.25	3516
18	2268.00	2093.04	2041.04	775.61	778.89	785.45	2665	86.75	22.87	3793
19	2403.00	2217.97	2165.97	808.60	811.88	818.44	2710	124.93	32.99	3787
20	2540.03	2347.29	2295.29	842.19	845.47	852.03	2755	129.33	33.59	3850
21	2662.00	2460.22	2408.22	870.86	874.14	880.70	2793	112.92	28.67	3939
22	2795.00	2578.20	2526.20	900.60	903.88	910.44	2832	117.99	29.74	3967

ANALYST: T. BOWMAN

11-AUG-92 09:36:11

PROGRAM: GSHOT 007.E08

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

COMPANY : ESSO AUSTRALIA LTD
WELL : MOONFISH #1
FIELD : WILDCAT
STATE : VICTORIA
COUNTRY : AUSTRALIA
REFERENCE: 560808
LOGGED : 13-JUL-92

DRIFT

DRIFT

ANALYST: T. BOWMAN

11-AUG-92 10:01:27

PROGRAM: GADJUST 008.E08

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*   SCHLUMBERGER                     *  
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SONIC ADJUSTMENT PARAMETER REPORT

COMPANY : ESSO AUSTRALIA LTD
WELL : MOONFISH #1
FIELD : WILDCAT
STATE : VICTORIA
COUNTRY : AUSTRALIA
REFERENCE: 560808
LOGGED : 13-JUL-92

ANALYST: T. BOWMAN

11-AUG-92 10:01:27

PROGRAM: GADJST 008.E08

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*                                     *  
*   SCHLUMBERGER                     *  
*                                     *  
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SONIC ADJUSTMENT PARAMETER REPORT

COMPANY : ESSO AUSTRALIA LTD
WELL : MOONFISH #1
FIELD : WILDCAT
STATE : VICTORIA
COUNTRY : AUSTRALIA
REFERENCE: 560808
LOGGED : 13-JUL-92

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	:	1524.00	M/S

(ZONED PARAMETERS)

(VALUE)

(LIMITS)

USER DRIFT ZONE (WST)	ZDRIFT	:	16.00000	MS	2604.97	-	1505.65
		:	10.50000		1505.65		952.000
		:	3.800000		952.000		185.010
		:	0		185.010		0
ADJUSMNT MODE (WST)	ADJOPZ	:	-999.2500		30479.7	-	0
USER DELTA-T MIN (WST)	ADJUSZ	:	-999.2500	US/F	30479.7	-	0
LAYER OPTION FLAG VELOC	LOFVEL	:	1.000000		30479.7	-	0
USER VELOC (WST)	LAYVEL	:	1673.000	M/S	185.010	-	75.0000
			1524.000		75.0000		0

COMPANY : ESSO AUSTRALIA LTD

WELL : MOONFISH #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
2	135.01	162.01	110.01	0	0			0
3	952.00	929.00	877.00	3.80	1.51			1.51
4	1505.65	1482.65	1430.65	10.50	3.69			3.69
5	2604.97	2581.97	2529.97	16.00	1.52			1.52

ANALYST: T. BOWMAN

11-AUG-92 10:01:36

PROGRAM: GADJST 008.E08

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*   SCHLUMBERGER                     *  
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VELOCITY REPORT

COMPANY : ESSO AUSTRALIA LTD
WELL : MOONFISH #1
FIELD : WILDCAT
STATE : VICTORIA
COUNTRY : AUSTRALIA
REFERENCE: 560808
LOGGED : 13-JUL-92

ANALYST: T. BOWMAN

11-AUG-92 10:01:36

PROGRAM: GADJST 008.E08

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*****  
*          SCHLUMBERGER             *  
*                                     *  
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VELOCITY REPORT

COMPANY : ESSO AUSTRALIA LTD
WELL : MOONFISH #1
FIELD : WILDCAT
STATE : VICTORIA
COUNTRY : AUSTRALIA
REFERENCE: 560308
LOGGED : 13-JUL-92

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	:	23.0000	M
ELEV OF SRD AB. MSL(WST)	SRD	:	0	M
ELEVATION OF KELLY BUSHI	EKB	:	23.0000	M
ELEV OF GL AB. SRD(WST)	GL	:	-52.0000	M
TOP OF ZONE PROCD (WST)	XSTART	:	0	M
BOT OF ZONE PROCD (WST)	XSTOP	:	0	M
RAW SONIC CH NAME (WST)	GAD001	:	DT.ATT.003.TVD.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

COMPANY : ESSO AUSTRALIA LTD

WELL : MOONFISH #1

PAGE 2

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	75.00	52.00	0	34.11	34.11	0	0
2	185.01	162.01	110.01	96.84	96.84	0	0
3	865.04	817.31	765.31	352.44	349.43	3.02	1.40
4	994.00	929.38	877.38	394.66	390.87	3.79	2.11
5	1184.00	1099.76	1047.76	457.66	452.27	5.39	2.87
6	1350.00	1250.76	1198.76	513.63	505.25	8.39	6.04
7	1463.00	1353.42	1301.43	550.78	541.65	9.13	2.20
8	1511.00	1397.17	1345.17	566.78	556.92	9.86	5.13
9	1603.00	1481.15	1429.15	597.09	586.62	10.47	2.21
10	1613.00	1490.28	1438.28	601.52	589.57	11.95	49.46
11	1695.00	1565.26	1513.26	626.56	614.43	12.13	.73
12	1799.50	1661.37	1609.37	655.91	644.74	11.17	-3.03
13	1861.00	1718.43	1666.43	674.89	664.88	10.02	-6.19
14	1945.00	1796.96	1744.96	699.78	688.54	11.24	4.74
15	2019.00	1865.63	1813.63	721.82	707.59	14.23	13.29
16	2079.00	1921.02	1869.02	738.33	724.42	13.91	-1.76
17	2172.00	2006.29	1954.29	762.58	749.74	12.84	-3.83
18	2268.00	2093.04	2041.04	785.45	771.35	14.11	4.45
19	2403.00	2217.97	2165.97	818.44	804.97	13.47	-1.54
20	2540.03	2347.29	2295.29	852.03	837.44	14.59	2.63
21	2662.00	2460.22	2408.22	880.70	865.21	15.49	2.44
22	2795.00	2578.20	2526.20	910.44	893.70	16.75	3.23
23	2799.32	2581.97	2529.97	911.30	894.55	16.75	0

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	:	23.0000	M
ELEV OF SRD AB. MSL(WST)	SRD	:	0	M
ELEVATION OF KELLY BUSHI	EKB	:	23.0000	M
ELEV OF GL AB. SRD(WST)	GL	:	-52.0000	M
UNIFORM EARTH VELOCITY	UNERTH	:	1524.00	M/S

(ZONED PARAMETERS)

(VALUE)

(LIMITS)

LAYER OPTION FLAG VELOC	LOFVEL	:	1.000000		30479.7	-	0
USER VELOC (WST)	LAYVEL	:	1673.000	M/S	185.010	-	75.0000
			1524.000		75.0000		0

LEVEL NUMBER	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	VERTICAL DEPTH FROM GL M	VERTICAL TRAVEL TIME SRD/GEOPH MS	INTEGRATED ADJUSTED SONIC TIME MS	DRIFT = SHOT TIME - RAW SON MS	RESIDUAL = SHOT TIME - ADJ SON MS	ADJUSTED INTERVAL VELOCITY M/S
1	75.00	52.00	0	34.11	34.11	0	0	1524
2	185.01	162.01	110.01	96.84	96.84	0	0	1754
3	865.04	817.31	765.31	352.44	352.67	3.02	-.23	2561
4	994.00	929.38	877.38	394.66	394.67	3.79	-.01	2668
5	1184.00	1099.76	1047.76	457.66	458.13	5.39	-.47	2685
6	1350.00	1250.76	1198.76	513.63	512.94	8.39	.69	2755
7	1463.00	1353.42	1301.43	550.78	550.59	9.13	.19	2727
8	1511.00	1397.17	1345.17	566.78	566.38	9.86	.40	2769
9	1603.00	1481.15	1429.15	597.09	597.10	10.47	-.01	2734
10	1613.00	1490.28	1438.28	601.52	600.10	11.95	1.42	3037
11	1695.00	1565.26	1513.26	626.56	625.34	12.13	1.22	2971
12	1799.50	1661.37	1609.37	655.91	656.13	11.17	-.22	3122
13	1861.00	1718.43	1666.43	674.89	676.55	10.02	-1.66	2794
14	1945.00	1796.96	1744.96	699.78	700.61	11.24	-.83	3264
15	2019.00	1865.63	1813.63	721.82	720.00	14.23	1.82	3542
16	2079.00	1921.02	1869.02	738.33	737.11	13.91	1.22	3238
17	2172.00	2006.29	1954.29	762.58	762.86	12.84	-.28	3312
18	2268.00	2093.04	2041.04	785.45	784.90	14.11	.56	3936
19	2403.00	2217.97	2165.97	818.44	819.14	13.47	-.70	3648
20	2540.03	2347.29	2295.29	852.03	852.27	14.59	-.23	3904
21	2662.00	2460.22	2408.22	880.70	880.60	15.49	.11	3986
22	2795.00	2578.20	2526.20	910.44	909.67	16.75	.77	4057
23	2799.32	2581.97	2529.97	911.30	910.54	16.75	.75	4333

ANALYST: T. BOWMAN

11-AUG-92 09:38:19

PROGRAM: GDRIFT 007.E09

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*   SCHLUMBERGER                     *  
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DRIFT COMPUTATION REPORT

COMPANY : ESSO AUSTRALIA LTD
WELL : MOONFISH #1
FIELD : WILDCAT
STATE : VICTORIA
COUNTRY : AUSTRALIA
REFERENCE: 560303
LOGGED : 13-JUL-92

TIME / DEPTH

ANALYST: T. BOWMAN

11-AUG-92 10:04:12

PROGRAM: GTRFRM 001.E12

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*   SCHLUMBERGER                     *  
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TIME CONVERTED VELOCITY REPORT

COMPANY : ESSO AUSTRALIA LTD
WELL : MOONFISH #1
FIELD : WILDCAT
STATE : VICTORIA
COUNTRY : AUSTRALIA
REFERENCE: 560808
LOGGED : 13-JUL-92

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

TWCT - TWO WAY TRAVEL TIME (RELATIVE TO THE SEISMIC REFERENCE)
 OKB - 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	:	23.0000	M
ELEV OF SRD AB. MSL(WST)	SRD	:	0	M
ELEV OF GL AB. SRD(WST)	GL	:	-52.0000	M
UNIFORM EARTH VELOCITY	UNERTH	:	1524.00	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 : ESSO AUSTRALIA LTD

WELL : MOONFISH #1

PAGE 2

(ZONED PARAMETERS)		(VALUE)	(LIMITS)
LAYER OPTION FLAG VELOC	LOFVEL	: 1.000000	30479.7 - 0
USER VELOC (WST)	LAYVEL	: 1673.000 M/S	185.010 - 75.0000
		1524.000	75.0000 0
LAYER OPTION FLAG DENS	LOFDEN	: -1.000000	30479.7 - 0
USER SUPPLIED DENSITY DA	LAYDEN	: 0 G/C3	0 - 0

COMPANY : ESSO AUSTRALIA LTD

WELL : MOONFISH #1

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
								1524
2.00	24.52	1.52	1524	1524	654.17	982.25	1310.34	1524
4.00	26.05	3.05	1524	1524	652.18	980.26	1308.34	1524
6.00	27.57	4.57	1524	1524	650.20	978.27	1306.35	1524
8.00	29.10	6.10	1524	1524	648.22	976.28	1304.36	1524
10.00	30.62	7.62	1524	1524	646.24	974.30	1302.37	1524
12.00	32.14	9.14	1524	1524	644.28	972.32	1300.39	1524
14.00	33.67	10.67	1524	1524	642.32	970.35	1298.41	1524
16.00	35.19	12.19	1524	1524	640.36	968.38	1296.43	1524
18.00	36.72	13.72	1524	1524	638.41	966.42	1294.46	1524
20.00	38.24	15.24	1524	1524	636.47	964.46	1292.49	1524
22.00	39.76	16.76	1524	1524	634.54	962.50	1290.52	1524
24.00	41.29	18.29	1524	1524	632.61	960.54	1288.56	1524
26.00	42.81	19.81	1524	1524	630.68	958.60	1286.59	1524
28.00	44.34	21.34	1524	1524	628.77	956.65	1284.63	1524
30.00	45.86	22.86	1524	1524	626.85	954.71	1282.68	1524
32.00	47.38	24.38	1524	1524	624.95	952.77	1280.73	1524
34.00	48.91	25.91	1524	1524	623.05	950.84	1278.78	1524
36.00	50.43	27.43	1524	1524	621.15	948.91	1276.83	1524
38.00	51.96	28.96	1524	1524	619.27	946.99	1274.89	1524
40.00	53.48	30.48	1524	1524	617.39	945.06	1272.95	1524
42.00	55.00	32.00	1524	1524	615.51	943.15	1271.01	1524
44.00	56.53	33.53	1524	1524	613.64	941.24	1269.07	1524
46.00	58.05	35.05	1524	1524	611.78	939.33	1267.14	1524
48.00	59.58	36.58	1524	1524	609.92	937.42	1265.21	

COMPANY : ESSO AUSTRALIA LTD

WELL : MOONFISH #1

PAGE 4

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
50.00	61.10	38.10	1524	1524	608.07	935.52	1263.29	1524
52.00	62.62	39.62	1524	1524	606.23	933.62	1261.37	1524
54.00	64.15	41.15	1524	1524	604.39	931.73	1259.45	1524
56.00	65.67	42.67	1524	1524	602.55	929.84	1257.53	1524
58.00	67.20	44.20	1524	1524	600.73	927.96	1255.62	1524
60.00	68.72	45.72	1524	1524	598.91	926.08	1253.71	1524
62.00	70.24	47.24	1524	1524	597.09	924.20	1251.80	1524
64.00	71.77	48.77	1524	1524	595.28	922.33	1249.90	1524
66.00	73.29	50.29	1524	1524	593.48	920.46	1247.99	1524
68.00	74.82	51.82	1524	1524	591.68	918.60	1246.10	1731
70.00	76.55	53.55	1530	1530	587.21	912.70	1238.81	1754
72.00	78.30	55.30	1536	1537	582.62	906.62	1231.28	1754
74.00	80.05	57.05	1542	1543	578.22	900.82	1224.12	1754
76.00	81.81	58.81	1543	1549	573.99	895.28	1217.30	1754
78.00	83.56	60.56	1553	1555	569.93	889.97	1210.80	1754
80.00	85.32	62.32	1558	1560	566.01	884.88	1204.57	1754
82.00	87.07	64.07	1563	1565	562.22	879.98	1198.60	1754
84.00	88.82	65.82	1567	1570	558.56	875.26	1192.86	1754
86.00	90.58	67.58	1572	1574	555.01	870.70	1187.34	1754
88.00	92.33	69.33	1576	1579	551.57	866.29	1182.02	1754
90.00	94.08	71.08	1580	1583	548.22	862.03	1176.89	1754
92.00	95.84	72.84	1583	1587	544.96	857.89	1171.92	1754
94.00	97.59	74.59	1587	1590	541.79	853.88	1167.11	1754
96.00	99.34	76.34	1591	1594	538.70	849.97	1162.45	1754

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
98.00	101.10	78.10	1594	1597	535.67	846.17	1157.93	1754
100.00	102.85	79.85	1597	1601	532.72	842.47	1153.53	1754
102.00	104.61	81.61	1600	1604	529.83	838.86	1149.25	1754
104.00	106.36	83.36	1603	1607	527.00	835.33	1145.08	1754
106.00	108.11	85.11	1606	1610	524.23	831.89	1141.02	1754
108.00	109.87	86.87	1609	1612	521.51	828.52	1137.05	1754
110.00	111.62	88.62	1611	1615	518.85	825.22	1133.18	1754
112.00	113.37	90.37	1614	1618	516.23	821.99	1129.39	1754
114.00	115.13	92.13	1616	1620	513.66	818.82	1125.68	1754
116.00	116.88	93.88	1619	1623	511.13	815.71	1122.06	1754
118.00	118.64	95.64	1621	1625	508.64	812.65	1118.50	1754
120.00	120.39	97.39	1623	1627	506.19	809.65	1115.01	1754
122.00	122.14	99.14	1625	1629	503.78	806.71	1111.59	1754
124.00	123.90	100.90	1627	1631	501.40	803.81	1108.23	1754
126.00	125.65	102.65	1629	1633	499.06	800.95	1104.93	1754
128.00	127.40	104.40	1631	1635	496.76	798.14	1101.69	1754
130.00	129.16	106.16	1633	1637	494.48	795.37	1098.49	1754
132.00	130.91	107.91	1635	1639	492.23	792.65	1095.35	1754
134.00	132.67	109.67	1637	1641	490.02	789.96	1092.26	1754
136.00	134.42	111.42	1639	1643	487.83	787.30	1089.22	1754
138.00	136.17	113.17	1640	1644	485.67	784.69	1086.21	1754
140.00	137.93	114.93	1642	1646	483.53	782.10	1083.25	1754
142.00	139.68	116.68	1643	1647	481.42	779.55	1080.34	1754
144.00	141.43	118.43	1645	1649	479.33	777.03	1077.46	1754

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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
146.00	143.19	120.19	1646	1650	477.27	774.54	1074.61	1754
148.00	144.94	121.94	1648	1652	475.22	772.08	1071.80	1754
150.00	146.70	123.70	1649	1653	473.20	769.64	1069.03	1754
152.00	148.45	125.45	1651	1655	471.21	767.23	1066.29	1754
154.00	150.20	127.20	1652	1656	469.23	764.85	1063.58	1754
156.00	151.96	128.96	1653	1657	467.27	762.49	1060.90	1754
158.00	153.71	130.71	1655	1658	465.33	760.16	1058.26	1754
160.00	155.46	132.46	1656	1660	463.41	757.85	1055.63	1754
162.00	157.22	134.22	1657	1661	461.51	755.56	1053.04	1754
164.00	158.97	135.97	1658	1662	459.63	753.29	1050.47	1754
166.00	160.72	137.72	1659	1663	457.76	751.05	1047.93	1754
168.00	162.48	139.48	1660	1664	455.91	748.82	1045.42	1754
170.00	164.23	141.23	1662	1665	454.08	746.61	1042.92	1754
172.00	165.99	142.99	1663	1666	452.26	744.43	1040.45	1754
174.00	167.74	144.74	1664	1667	450.46	742.26	1038.00	1754
176.00	169.49	146.49	1665	1668	448.67	740.11	1035.58	1754
178.00	171.25	148.25	1666	1669	446.90	737.98	1033.17	1754
180.00	173.00	150.00	1667	1670	445.14	735.86	1030.79	1754
182.00	174.75	151.75	1668	1671	443.40	733.76	1028.42	1754
184.00	176.51	153.51	1669	1672	441.67	731.68	1026.07	1754
186.00	178.26	155.26	1669	1673	439.95	729.61	1023.75	1754
188.00	180.02	157.02	1670	1674	438.25	727.56	1021.44	1754
190.00	181.77	158.77	1671	1675	436.56	725.52	1019.14	1754
192.00	183.52	160.52	1672	1676	434.89	723.50	1016.87	1754

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
								1786
194.00	185.31	162.31	1673	1677	433.11	721.31	1014.36	1944
196.00	187.25	164.25	1676	1680	430.73	718.20	1010.62	1959
198.00	189.21	166.21	1679	1683	428.34	715.05	1006.82	1986
200.00	191.20	168.20	1682	1686	425.87	711.79	1002.86	1990
202.00	193.19	170.19	1685	1689	423.42	708.55	998.92	1988
204.00	195.18	172.18	1688	1693	421.02	705.37	995.07	1977
206.00	197.15	174.15	1691	1696	418.69	702.29	991.35	1956
208.00	199.11	176.11	1693	1698	416.47	699.39	987.86	1978
210.00	201.09	178.09	1696	1701	414.20	696.39	984.25	1988
212.00	203.08	180.08	1699	1704	411.93	693.38	980.61	2046
214.00	205.12	182.12	1702	1708	409.48	690.10	976.60	2068
216.00	207.19	184.19	1705	1711	406.99	686.73	972.48	2042
218.00	209.23	186.23	1709	1715	404.62	683.57	968.61	2045
220.00	211.28	188.28	1712	1718	402.28	680.43	964.79	2093
222.00	213.37	190.37	1715	1722	399.81	677.08	960.68	2072
224.00	215.44	192.44	1718	1725	397.44	673.89	956.77	2071
226.00	217.52	194.51	1721	1728	395.11	670.75	952.94	2087
228.00	219.60	196.60	1725	1732	392.77	667.58	949.05	2178
230.00	221.78	198.78	1729	1736	390.15	663.98	944.59	2163
232.00	223.95	200.94	1732	1740	387.63	660.52	940.30	2173
234.00	226.12	203.11	1736	1745	385.12	657.06	936.02	2191
236.00	228.31	205.31	1740	1749	382.58	653.57	931.69	2284
238.00	230.59	207.59	1744	1754	379.79	649.66	926.79	2249
240.00	232.84	209.84	1749	1759	377.16	646.00	922.22	

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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
								2220
242.00	235.06	212.06	1753	1763	374.66	642.54	917.92	2199
244.00	237.26	214.26	1756	1767	372.27	639.24	913.82	2223
246.00	239.49	216.48	1760	1771	369.84	635.87	909.63	2182
248.00	241.67	218.66	1763	1775	367.57	632.74	905.77	2179
250.00	243.85	220.84	1767	1779	365.33	629.66	901.97	2165
252.00	246.01	223.00	1770	1782	363.17	626.69	898.32	2213
254.00	248.23	225.22	1773	1786	360.91	623.55	894.43	2230
256.00	250.46	227.45	1777	1790	358.63	620.38	890.49	2216
258.00	252.67	229.66	1780	1793	356.42	617.32	886.70	2184
260.00	254.86	231.85	1783	1797	354.32	614.43	883.14	2214
262.00	257.07	234.06	1787	1800	352.18	611.46	879.46	2198
264.00	259.27	236.26	1790	1804	350.10	608.59	875.91	2209
266.00	261.48	238.47	1793	1807	348.03	605.71	872.36	2229
268.00	263.71	240.70	1796	1810	345.93	602.79	868.74	2251
270.00	265.96	242.95	1800	1814	343.81	599.82	865.05	2301
272.00	268.26	245.25	1803	1818	341.59	596.69	861.14	2376
274.00	270.64	247.63	1807	1823	339.21	593.31	856.88	2351
276.00	272.99	249.98	1811	1827	336.93	590.07	852.82	2419
278.00	275.41	252.40	1816	1832	334.52	586.62	848.45	2391
280.00	277.80	254.79	1820	1837	332.22	583.32	844.30	2389
282.00	280.19	257.17	1824	1841	329.96	580.09	840.23	2446
284.00	282.64	259.62	1828	1846	327.59	576.68	835.91	2334
286.00	284.97	261.95	1832	1850	325.52	573.75	832.24	2327
288.00	287.30	264.28	1835	1854	323.50	570.88	828.65	

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
290.00	289.89	266.87	1840	1860	320.90	567.07	823.77	2588
292.00	292.17	269.16	1844	1863	319.02	564.42	820.48	2287
294.00	294.39	271.38	1846	1866	317.31	562.03	817.53	2219
296.00	296.58	273.56	1848	1868	315.69	559.78	814.78	2184
298.00	298.76	275.74	1851	1870	314.10	557.57	812.07	2178
300.00	300.98	277.96	1853	1873	312.44	555.25	809.21	2219
302.00	303.21	280.19	1856	1876	310.78	552.90	806.32	2234
304.00	305.53	282.51	1859	1879	308.97	550.32	803.09	2317
306.00	307.77	284.74	1861	1881	307.34	548.03	800.26	2234
308.00	310.07	287.05	1864	1884	305.59	545.53	797.15	2307
310.00	312.35	289.32	1867	1887	303.92	543.17	794.22	2273
312.00	314.63	291.61	1869	1890	302.25	540.79	791.26	2286
314.00	316.94	293.91	1872	1893	300.57	538.39	788.27	2303
316.00	319.27	296.24	1875	1896	298.86	535.94	785.21	2327
318.00	321.53	298.50	1877	1898	297.30	533.72	782.45	2259
320.00	323.93	300.90	1881	1902	295.50	531.11	779.16	2398
322.00	326.24	303.21	1883	1905	293.88	528.78	776.26	2311
324.00	328.55	305.52	1886	1908	292.28	526.48	773.39	2311
326.00	330.88	307.84	1889	1910	290.67	524.18	770.50	2323
328.00	333.20	310.16	1891	1913	289.09	521.89	767.65	2322
330.00	335.55	312.52	1894	1916	287.47	519.54	764.70	2354
332.00	338.07	315.03	1898	1920	285.59	516.76	761.15	2514
334.00	340.58	317.54	1901	1924	283.74	514.04	757.68	2506
336.00	342.86	319.82	1904	1927	282.30	511.97	755.10	2281

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
338.00	345.01	321.97	1905	1928	281.08	510.25	753.01	2149
340.00	347.70	324.66	1910	1933	278.96	507.06	748.88	2693
342.00	350.48	327.44	1915	1939	276.73	503.66	744.46	2779
344.00	352.78	329.73	1917	1942	275.34	501.66	741.97	2292
346.00	354.50	331.46	1916	1940	274.71	500.90	741.19	1727
348.00	356.30	333.26	1915	1940	274.00	500.00	740.22	1800
350.00	358.34	335.29	1916	1940	273.00	498.62	738.58	2036
352.00	360.93	337.88	1920	1945	271.19	495.91	735.09	2584
354.00	363.13	340.07	1921	1946	269.99	494.19	732.98	2198
356.00	365.56	342.51	1924	1949	268.46	491.92	730.10	2434
358.00	368.35	345.30	1929	1955	266.38	488.73	725.93	2790
360.00	370.93	347.87	1933	1959	264.68	486.17	722.63	2573
362.00	373.42	350.36	1936	1962	263.12	483.84	719.65	2493
364.00	375.78	352.73	1938	1965	261.77	481.85	717.14	2362
366.00	378.29	355.23	1941	1968	260.23	479.54	714.18	2505
368.00	380.72	357.66	1944	1971	258.81	477.42	711.49	2433
370.00	383.10	360.04	1946	1973	257.49	475.46	709.01	2375
372.00	385.38	362.32	1948	1975	256.30	473.72	706.84	2281
374.00	387.83	364.77	1951	1978	254.91	471.63	704.18	2445
376.00	390.39	367.32	1954	1981	253.38	469.30	701.19	2557
378.00	392.69	369.62	1956	1983	252.21	467.58	699.03	2296
380.00	394.89	371.82	1957	1984	251.17	466.07	697.16	2200
382.00	397.25	374.18	1959	1986	249.94	464.24	694.85	2358
384.00	399.49	376.42	1961	1988	248.86	462.67	692.89	2242

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
386.00	402.19	379.12	1964	1992	247.21	460.11	689.56	2701
388.00	404.68	381.60	1967	1995	245.87	458.07	686.95	2482
390.00	407.21	384.13	1970	1998	244.48	455.95	684.21	2531
392.00	409.78	386.70	1973	2001	243.05	453.77	681.40	2568
394.00	412.43	389.34	1976	2005	241.55	451.45	678.38	2642
396.00	415.02	391.93	1979	2009	240.14	449.28	675.56	2590
398.00	417.76	394.67	1983	2013	238.55	446.80	672.31	2739
400.00	420.37	397.28	1986	2016	237.15	444.63	669.50	2606
402.00	422.87	399.78	1989	2019	235.89	442.71	667.03	2498
404.00	425.03	401.94	1990	2020	235.02	441.43	665.46	2159
406.00	427.48	404.38	1992	2022	233.84	439.64	663.16	2448
408.00	430.01	406.91	1995	2025	232.60	437.72	660.68	2522
410.00	432.85	409.75	1999	2030	230.97	435.15	657.28	2845
412.00	435.32	412.21	2001	2032	229.82	433.39	655.01	2461
414.00	438.03	414.93	2004	2036	228.40	431.15	652.08	2714
416.00	440.75	417.64	2008	2040	227.00	428.95	649.18	2709
418.00	443.61	420.50	2012	2044	225.43	426.45	645.87	2865
420.00	446.35	423.24	2015	2048	224.03	424.25	642.98	2734
422.00	449.25	426.13	2020	2053	222.47	421.74	639.65	2898
424.00	451.99	428.86	2023	2057	221.11	419.60	636.83	2730
426.00	454.67	431.54	2026	2060	219.83	417.58	634.18	2681
428.00	457.29	434.16	2029	2063	218.63	415.69	631.71	2618
430.00	460.06	436.93	2032	2067	217.28	413.55	628.87	2769
432.00	462.68	439.55	2035	2070	216.11	411.70	626.45	2619

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
434.00	465.32	442.18	2038	2073	214.94	409.84	624.02	2630
436.00	467.97	444.83	2041	2076	213.75	407.97	621.56	2651
438.00	470.78	447.64	2044	2080	212.43	405.85	618.74	2804
440.00	473.68	450.54	2048	2084	211.02	403.56	615.69	2903
442.00	476.33	453.18	2051	2087	209.88	401.77	613.33	2642
444.00	479.25	456.10	2054	2091	208.49	399.51	610.31	2916
446.00	481.99	458.83	2058	2095	207.30	397.59	607.78	2736
448.00	485.00	461.85	2062	2100	205.84	395.21	604.57	3012
450.00	487.67	464.51	2064	2103	204.74	393.46	602.26	2666
452.00	490.48	467.32	2068	2106	203.53	391.49	599.64	2805
454.00	493.27	470.10	2071	2110	202.34	389.57	597.09	2786
456.00	496.06	472.90	2074	2113	201.16	387.66	594.54	2794
458.00	499.04	475.87	2078	2118	199.83	385.47	591.59	2975
460.00	501.77	478.58	2081	2121	198.75	383.74	589.29	2712
462.00	504.69	481.47	2084	2125	197.53	381.73	586.60	2890
464.00	507.55	484.31	2088	2128	196.37	379.85	584.07	2832
466.00	510.47	487.19	2091	2132	195.18	377.89	581.45	2884
468.00	513.34	490.03	2094	2136	194.04	376.03	578.95	2845
470.00	516.39	493.05	2098	2140	192.76	373.91	576.09	3013
472.00	519.33	495.95	2102	2144	191.59	371.99	573.50	2907
474.00	522.08	498.68	2104	2147	190.59	370.36	571.32	2725
476.00	525.06	501.63	2108	2151	189.42	368.41	568.70	2946
478.00	527.60	504.15	2109	2152	188.60	367.09	566.96	2521
480.00	530.45	506.96	2112	2156	187.55	365.38	564.66	2815

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
482.00	533.22	509.70	2115	2158	186.58	363.78	562.53	2740
484.00	536.03	512.48	2118	2161	185.59	362.15	560.34	2780
486.00	538.91	515.34	2121	2165	184.55	360.43	558.01	2854
488.00	541.71	518.11	2123	2167	183.59	358.83	555.87	2773
490.00	544.52	520.89	2126	2170	182.63	357.25	553.75	2776
492.00	547.44	523.77	2129	2174	181.59	355.53	551.42	2889
494.00	550.24	526.55	2132	2176	180.66	353.98	549.34	2771
496.00	552.98	529.25	2134	2179	179.78	352.53	547.39	2709
498.00	555.70	531.95	2136	2181	178.92	351.11	545.48	2695
500.00	558.54	534.76	2139	2184	177.98	349.55	543.38	2809
502.00	561.26	537.45	2141	2186	177.14	348.16	541.51	2692
504.00	564.10	540.26	2144	2189	176.22	346.63	539.44	2810
506.00	566.89	543.03	2146	2192	175.35	345.16	537.47	2766
508.00	569.62	545.72	2149	2194	174.53	343.80	535.63	2697
510.00	572.44	548.51	2151	2196	173.65	342.33	533.65	2791
512.00	575.09	551.14	2153	2198	172.89	341.07	531.96	2629
514.00	577.90	553.92	2155	2201	172.03	339.64	530.02	2778
516.00	580.63	556.62	2157	2203	171.24	338.32	528.24	2696
518.00	583.38	559.34	2160	2205	170.44	336.98	526.43	2722
520.00	586.21	562.15	2162	2208	169.59	335.55	524.49	2807
522.00	589.22	565.12	2165	2211	168.64	333.93	522.27	2973
524.00	592.09	567.96	2168	2214	167.79	332.48	520.30	2841
526.00	595.00	570.85	2171	2217	166.91	331.00	518.27	2886
528.00	597.99	573.80	2173	2220	166.00	329.44	516.13	2957

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
530.00	601.07	576.81	2177	2224	165.07	327.84	513.92	3007
532.00	604.07	579.69	2179	2227	164.23	326.41	511.97	2875
534.00	607.09	582.57	2182	2229	163.39	324.98	510.00	2889
536.00	610.13	585.48	2185	2232	162.55	323.54	508.02	2908
538.00	613.17	588.40	2187	2235	161.71	322.10	506.04	2915
540.00	616.30	591.40	2190	2239	160.82	320.58	503.94	3000
542.00	619.19	594.16	2192	2241	160.09	319.33	502.24	2765
544.00	622.27	597.11	2195	2244	159.26	317.90	500.26	2943
546.00	625.32	600.03	2198	2247	158.45	316.51	498.34	2920
548.00	628.26	602.84	2200	2249	157.71	315.24	496.60	2813
550.00	631.22	605.68	2202	2251	156.96	313.96	494.84	2839
552.00	634.25	608.57	2205	2254	156.19	312.62	493.00	2896
554.00	637.23	611.43	2207	2256	155.45	311.34	491.24	2856
556.00	640.09	614.17	2209	2258	154.78	310.19	489.66	2739
558.00	643.26	617.20	2212	2262	153.95	308.75	487.65	3030
560.00	645.91	619.73	2213	2263	153.39	307.81	486.38	2535
562.00	648.97	622.66	2216	2265	152.64	306.49	484.56	2929
564.00	651.94	625.51	2218	2268	151.93	305.27	482.87	2844
566.00	654.51	627.96	2219	2268	151.42	304.42	481.72	2458
568.00	657.28	630.62	2220	2270	150.83	303.39	480.32	2654
570.00	660.07	633.29	2222	2271	150.23	302.36	478.91	2674
572.00	662.67	635.78	2223	2272	149.72	301.49	477.74	2487
574.00	665.50	638.48	2225	2274	149.11	300.44	476.30	2702
576.00	668.19	641.96	2226	2275	148.56	299.51	475.02	2582

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
578.00	670.77	643.54	2227	2276	148.07	298.67	473.89	2471
580.00	673.44	646.09	2228	2277	147.55	297.77	472.67	2551
582.00	676.01	648.55	2229	2277	147.07	296.95	471.56	2460
584.00	678.86	651.27	2230	2279	146.47	295.92	470.13	2724
586.00	681.44	653.75	2231	2280	145.99	295.09	469.01	2476
588.00	684.21	656.39	2233	2281	145.44	294.14	467.69	2646
590.00	686.93	659.00	2234	2282	144.91	293.22	466.44	2602
592.00	689.85	661.79	2236	2284	144.29	292.14	464.94	2798
594.00	692.80	664.62	2238	2286	143.67	291.05	463.41	2828
596.00	695.59	667.29	2239	2288	143.13	290.10	462.10	2666
598.00	698.39	669.97	2241	2289	142.58	289.14	460.78	2678
600.00	701.23	672.62	2242	2290	142.05	288.21	459.50	2657
602.00	704.46	675.54	2244	2293	141.40	287.07	457.88	2921
604.00	707.58	678.36	2246	2295	140.81	286.02	456.42	2812
606.00	710.61	681.09	2248	2296	140.25	285.05	455.07	2736
608.00	713.58	683.78	2249	2298	139.72	284.12	453.78	2687
610.00	716.72	686.62	2251	2300	139.13	283.07	452.31	2838
612.00	719.63	689.24	2252	2301	138.64	282.20	451.11	2625
614.00	722.64	691.96	2254	2302	138.11	281.26	449.80	2721
616.00	725.86	694.87	2256	2304	137.50	280.18	448.27	2906
618.00	728.88	697.59	2258	2306	136.97	279.25	446.98	2725
620.00	731.84	700.27	2259	2307	136.47	278.37	445.74	2680
622.00	735.30	703.40	2262	2310	135.78	277.12	443.96	3124
624.00	738.15	705.97	2263	2311	135.33	276.33	442.86	2573

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
626.00	741.42	708.93	2265	2314	134.72	275.24	441.32	2956
628.00	744.57	711.77	2267	2315	134.17	274.25	439.92	2846
630.00	747.48	714.40	2268	2317	133.71	273.43	438.78	2631
632.00	750.71	717.31	2270	2319	133.13	272.40	437.32	2912
634.00	753.85	720.15	2272	2320	132.60	271.44	435.96	2834
636.00	756.99	722.99	2274	2322	132.06	270.48	434.61	2838
638.00	760.16	725.85	2275	2324	131.53	269.51	433.24	2863
640.00	763.05	728.47	2276	2325	131.08	268.73	432.14	2616
642.00	766.05	731.17	2278	2326	130.61	267.88	430.95	2708
644.00	768.94	733.78	2279	2327	130.18	267.12	429.88	2607
646.00	771.67	736.25	2279	2328	129.80	266.44	428.95	2465
648.00	774.87	739.14	2281	2330	129.27	265.48	427.57	2899
650.00	778.28	742.22	2284	2332	128.66	264.38	426.00	3075
652.00	781.10	744.77	2285	2333	128.26	263.67	425.00	2550
654.00	784.11	747.49	2286	2334	127.81	262.85	423.84	2717
656.00	787.14	750.23	2287	2336	127.35	262.01	422.67	2742
658.00	790.11	752.90	2288	2337	126.91	261.23	421.56	2675
660.00	793.09	755.60	2290	2338	126.47	260.44	420.44	2698
662.00	795.94	758.17	2291	2339	126.08	259.73	419.45	2572
664.00	798.89	760.84	2292	2340	125.65	258.97	418.37	2668
666.00	802.33	763.83	2294	2342	125.12	257.99	416.96	2988
668.00	805.38	766.43	2295	2343	124.72	257.28	415.95	2602
670.00	808.56	769.14	2296	2344	124.29	256.50	414.85	2710
672.00	811.77	771.88	2297	2345	123.85	255.70	413.72	2740

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
674.00	814.92	774.56	2298	2346	123.44	254.95	412.65	2681
676.00	817.99	777.19	2299	2347	123.05	254.24	411.65	2623
678.00	820.97	779.73	2300	2348	122.68	253.59	410.72	2542
680.00	823.98	782.29	2301	2349	122.31	252.92	409.78	2567
682.00	826.96	784.83	2302	2349	121.95	252.27	408.86	2539
684.00	830.07	787.49	2303	2350	121.56	251.55	407.85	2653
686.00	833.18	790.14	2304	2351	121.17	250.84	406.84	2655
688.00	836.31	792.81	2305	2352	120.77	250.12	405.81	2672
690.00	839.60	795.61	2306	2353	120.34	249.33	404.67	2802
692.00	842.62	798.19	2307	2354	119.98	248.67	403.74	2578
694.00	845.89	800.98	2308	2355	119.56	247.90	402.63	2786
696.00	849.02	803.65	2309	2356	119.17	247.20	401.62	2672
698.00	852.02	806.21	2310	2357	118.82	246.56	400.72	2559
700.00	855.18	808.90	2311	2358	118.44	245.86	399.71	2691
702.00	858.78	811.98	2313	2360	117.93	244.91	398.33	3076
704.00	862.51	815.15	2316	2363	117.39	243.91	396.86	3175
706.00	866.20	818.30	2318	2366	116.87	242.93	395.43	3147
708.00	869.90	821.46	2321	2368	116.35	241.95	394.00	3162
710.00	873.64	824.64	2323	2371	115.82	240.97	392.56	3174
712.00	877.29	827.73	2325	2373	115.33	240.05	391.22	3090
714.00	880.82	830.72	2327	2375	114.88	239.20	389.98	2990
716.00	883.86	833.30	2328	2376	114.55	238.60	389.11	2582
718.00	886.91	835.89	2328	2377	114.22	237.98	388.24	2596
720.00	889.89	838.44	2329	2377	113.90	237.40	387.41	2543

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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
722.00	892.90	840.99	2330	2378	113.58	236.82	386.57	2559
724.00	895.71	843.41	2330	2378	113.30	236.31	385.85	2413
726.00	898.50	845.80	2330	2378	113.03	235.81	385.14	2392
728.00	900.73	847.71	2329	2376	112.86	235.52	384.76	1908
730.00	903.80	850.34	2330	2377	112.53	234.91	383.87	2633
732.00	906.67	852.82	2330	2378	112.24	234.37	383.11	2479
734.00	909.62	855.36	2331	2378	111.93	233.81	382.30	2541
736.00	912.51	857.86	2331	2378	111.64	233.27	381.53	2497
738.00	915.42	860.38	2332	2379	111.34	232.72	380.74	2521
740.00	918.33	862.89	2332	2379	111.04	232.17	379.96	2517
742.00	921.23	865.41	2333	2379	110.75	231.63	379.18	2521
744.00	924.22	868.01	2333	2380	110.44	231.05	378.34	2595
746.00	927.25	870.64	2334	2381	110.12	230.46	377.48	2634
748.00	930.29	873.29	2335	2382	109.80	229.86	376.61	2646
750.00	933.13	875.76	2335	2382	109.52	229.35	375.88	2471
752.00	936.18	878.42	2336	2383	109.20	228.75	375.00	2661
754.00	939.13	881.01	2337	2383	108.90	228.19	374.19	2583
756.00	942.15	883.64	2338	2384	108.59	227.60	373.35	2637
758.00	945.25	886.36	2339	2385	108.25	226.98	372.44	2720
760.00	948.28	889.02	2340	2386	107.94	226.39	371.58	2661
762.00	951.25	891.63	2340	2386	107.64	225.83	370.77	2609
764.00	954.37	894.39	2341	2387	107.30	225.20	369.84	2755
766.00	957.58	897.21	2343	2388	106.95	224.54	368.87	2822
768.00	960.85	900.10	2344	2390	106.59	223.85	367.85	2886

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
770.00	964.01	902.89	2345	2391	106.25	223.21	366.91	2791
772.00	967.11	905.62	2346	2392	105.93	222.61	366.03	2729
774.00	970.10	908.25	2347	2393	105.64	222.05	365.22	2637
776.00	973.08	910.89	2348	2393	105.34	221.50	364.41	2638
778.00	976.15	913.60	2349	2394	105.03	220.91	363.55	2708
780.00	979.18	916.28	2349	2395	104.73	220.34	362.71	2678
782.00	982.27	919.01	2350	2396	104.42	219.75	361.85	2729
784.00	985.34	921.72	2351	2397	104.11	219.17	361.00	2714
786.00	988.66	924.65	2353	2398	103.76	218.49	359.98	2932
788.00	991.87	927.49	2354	2399	103.42	217.86	359.05	2840
790.00	994.95	930.21	2355	2400	103.12	217.29	358.20	2722
792.00	997.81	932.75	2355	2401	102.86	216.80	357.49	2532
794.00	1000.79	935.38	2356	2401	102.58	216.27	356.72	2635
796.00	1003.68	937.94	2357	2402	102.32	215.78	356.00	2557
798.00	1006.60	940.52	2357	2402	102.06	215.28	355.26	2583
800.00	1009.60	943.17	2358	2403	101.78	214.75	354.48	2652
802.00	1012.69	945.91	2359	2404	101.48	214.18	353.65	2736
804.00	1015.73	948.60	2360	2404	101.20	213.64	352.85	2692
806.00	1018.61	951.15	2360	2405	100.95	213.16	352.14	2552
808.00	1021.51	953.73	2361	2405	100.69	212.68	351.43	2575
810.00	1024.45	956.33	2361	2406	100.43	212.18	350.70	2603
812.00	1027.37	958.93	2362	2406	100.17	211.69	349.97	2599
814.00	1030.31	961.55	2363	2407	99.91	211.19	349.24	2616
816.00	1033.31	964.22	2363	2407	99.64	210.67	348.47	2671

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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
818.00	1036.25	966.83	2364	2408	99.38	210.18	347.74	2611
820.00	1039.34	969.59	2365	2409	99.09	209.63	346.92	2756
822.00	1042.33	972.27	2366	2410	98.82	209.11	346.16	2681
824.00	1045.31	974.93	2366	2410	98.56	208.61	345.41	2665
826.00	1048.17	977.49	2367	2411	98.31	208.15	344.73	2561
828.00	1051.11	980.13	2367	2411	98.06	207.66	344.00	2634
830.00	1053.83	982.57	2368	2411	97.84	207.25	343.40	2439
832.00	1056.70	985.14	2368	2412	97.60	206.79	342.72	2574
834.00	1059.60	987.74	2369	2412	97.35	206.31	342.02	2603
836.00	1062.56	990.40	2369	2413	97.10	205.82	341.29	2659
838.00	1065.52	993.06	2370	2413	96.84	205.33	340.56	2660
840.00	1068.69	995.91	2371	2415	96.55	204.77	339.71	2849
842.00	1071.74	998.65	2372	2415	96.28	204.25	338.94	2737
844.00	1074.96	1001.53	2373	2417	95.99	203.68	338.07	2887
846.00	1078.05	1004.30	2374	2417	95.71	203.15	337.28	2772
848.00	1081.07	1007.00	2375	2418	95.46	202.66	336.55	2697
850.00	1084.10	1009.72	2376	2419	95.20	202.16	335.80	2714
852.00	1087.03	1012.33	2376	2419	94.97	201.70	335.12	2618
854.00	1089.96	1014.96	2377	2420	94.73	201.25	334.44	2626
856.00	1092.84	1017.54	2377	2420	94.50	200.81	333.79	2580
858.00	1095.84	1020.22	2378	2421	94.25	200.33	333.07	2682
860.00	1098.83	1022.90	2379	2422	94.01	199.86	332.37	2677
862.00	1101.95	1025.69	2380	2422	93.74	199.34	331.59	2797
864.00	1105.05	1028.47	2381	2423	93.48	198.84	330.83	2776

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
866.00	1108.05	1031.15	2381	2424	93.24	198.37	330.13	2679
868.00	1111.10	1033.88	2382	2425	92.99	197.89	329.40	2734
870.00	1114.10	1036.56	2383	2425	92.76	197.43	328.71	2679
872.00	1117.18	1039.33	2384	2426	92.50	196.93	327.96	2768
874.00	1120.18	1042.02	2384	2427	92.27	196.47	327.27	2687
876.00	1122.99	1044.54	2385	2427	92.06	196.07	326.68	2519
878.00	1125.95	1047.20	2385	2428	91.83	195.63	326.00	2665
880.00	1129.18	1050.10	2387	2429	91.56	195.09	325.19	2895
882.00	1132.33	1052.92	2388	2430	91.30	194.59	324.43	2828
884.00	1135.50	1055.79	2389	2431	91.03	194.07	323.64	2864
886.00	1138.46	1058.45	2389	2431	90.81	193.63	322.98	2662
888.00	1141.47	1061.17	2390	2432	90.57	193.18	322.29	2716
890.00	1144.69	1064.08	2391	2433	90.31	192.65	321.49	2911
892.00	1147.81	1066.90	2392	2434	90.06	192.16	320.74	2821
894.00	1150.88	1069.68	2393	2435	89.82	191.69	320.03	2780
896.00	1153.90	1072.41	2394	2436	89.58	191.23	319.34	2731
898.00	1156.84	1075.08	2394	2436	89.36	190.80	318.69	2672
900.00	1159.83	1077.79	2395	2437	89.14	190.36	318.02	2713
902.00	1162.87	1080.55	2396	2438	88.90	189.90	317.33	2757
904.00	1165.91	1083.31	2397	2438	88.67	189.45	316.63	2760
906.00	1168.82	1085.96	2397	2439	88.46	189.03	316.01	2652
908.00	1171.73	1088.61	2398	2439	88.25	188.62	315.38	2646
910.00	1174.64	1091.25	2398	2440	88.04	188.21	314.76	2644
912.00	1177.51	1093.87	2399	2440	87.84	187.81	314.16	2611

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
914.00	1180.44	1096.53	2399	2441	87.63	187.40	313.53	2663
916.00	1183.51	1099.32	2400	2442	87.40	186.95	312.84	2793
918.00	1186.81	1102.31	2402	2443	87.13	186.42	312.03	2993
920.00	1189.99	1105.20	2403	2444	86.89	185.94	311.29	2887
922.00	1193.19	1108.12	2404	2445	86.64	185.44	310.54	2918
924.00	1196.34	1110.99	2405	2446	86.40	184.97	309.81	2869
926.00	1199.39	1113.76	2406	2447	86.18	184.53	309.14	2776
928.00	1202.43	1116.53	2406	2448	85.96	184.10	308.48	2766
930.00	1205.38	1119.22	2407	2448	85.75	183.69	307.86	2692
932.00	1208.41	1121.99	2408	2449	85.53	183.27	307.21	2764
934.00	1211.41	1124.72	2408	2450	85.32	182.85	306.57	2738
936.00	1214.48	1127.52	2409	2450	85.10	182.41	305.90	2799
938.00	1217.74	1130.50	2410	2452	84.85	181.92	305.13	2977
940.00	1220.87	1133.35	2411	2452	84.63	181.47	304.45	2850
942.00	1223.87	1136.09	2412	2453	84.42	181.06	303.81	2742
944.00	1226.89	1138.85	2413	2454	84.21	180.64	303.18	2757
946.00	1229.89	1141.59	2414	2454	84.01	180.23	302.56	2736
948.00	1232.92	1144.34	2414	2455	83.80	179.82	301.93	2758
950.00	1235.98	1147.12	2415	2456	83.59	179.41	301.29	2778
952.00	1239.01	1149.88	2416	2457	83.38	179.00	300.66	2757
954.00	1241.98	1152.58	2416	2457	83.19	178.61	300.07	2703
956.00	1244.95	1155.29	2417	2458	82.99	178.22	299.47	2707
958.00	1247.95	1158.01	2418	2458	82.79	177.83	298.87	2725
960.00	1250.90	1160.69	2418	2459	82.60	177.45	298.29	2682

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
962.00	1253.87	1163.39	2419	2459	82.41	177.07	297.70	2700
964.00	1256.98	1166.23	2420	2460	82.20	176.65	297.05	2832
966.00	1260.02	1168.98	2420	2461	82.00	176.26	296.44	2756
968.00	1263.03	1171.72	2421	2461	81.81	175.87	295.85	2738
970.00	1266.22	1174.62	2422	2462	81.59	175.43	295.17	2900
972.00	1269.32	1177.43	2423	2463	81.39	175.02	294.54	2813
974.00	1272.35	1180.19	2423	2464	81.19	174.64	293.94	2754
976.00	1275.46	1183.01	2424	2464	80.99	174.23	293.31	2824
978.00	1278.52	1185.79	2425	2465	80.79	173.84	292.71	2781
980.00	1281.48	1188.48	2425	2466	80.61	173.47	292.15	2692
982.00	1284.68	1191.40	2426	2467	80.39	173.04	291.48	2915
984.00	1287.95	1194.37	2428	2468	80.17	172.60	290.79	2965
986.00	1290.93	1197.08	2428	2468	79.99	172.23	290.22	2713
988.00	1293.92	1199.79	2429	2469	79.81	171.87	289.66	2737
990.00	1296.93	1202.53	2429	2469	79.62	171.50	289.09	2728
992.00	1299.93	1205.26	2430	2470	79.44	171.13	288.52	2763
994.00	1302.97	1208.02	2431	2471	79.25	170.76	287.94	2657
996.00	1305.89	1210.68	2431	2471	79.08	170.42	287.42	2698
998.00	1308.86	1213.37	2432	2471	78.91	170.07	286.87	2641
1000.00	1311.76	1216.02	2432	2472	78.74	169.73	286.35	2724
1002.00	1314.75	1218.74	2433	2472	78.56	169.37	285.80	2635
1004.00	1317.65	1221.37	2433	2473	78.39	169.04	285.29	2645
1006.00	1320.56	1224.02	2433	2473	78.23	168.71	284.77	2573
1008.00	1323.39	1226.59	2434	2473	78.07	168.40	284.29	

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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
1010.00	1326.34	1229.28	2434	2474	77.90	168.06	283.76	2683
1012.00	1329.36	1232.03	2435	2474	77.72	167.70	283.21	2752
1014.00	1332.39	1234.78	2435	2475	77.55	167.34	282.65	2749
1016.00	1335.44	1237.55	2436	2475	77.37	166.98	282.09	2770
1018.00	1338.37	1240.20	2437	2476	77.20	166.65	281.58	2658
1020.00	1341.29	1242.86	2437	2476	77.04	166.33	281.08	2652
1022.00	1344.13	1245.44	2437	2476	76.89	166.02	280.60	2580
1024.00	1347.13	1248.16	2438	2477	76.72	165.68	280.07	2722
1026.00	1350.16	1250.91	2438	2477	76.55	165.33	279.53	2748
1028.00	1353.03	1253.52	2439	2478	76.39	165.02	279.05	2610
1030.00	1355.82	1256.05	2439	2478	76.25	164.74	278.60	2530
1032.00	1358.64	1258.60	2439	2478	76.10	164.44	278.15	2556
1034.00	1361.62	1261.31	2440	2478	75.94	164.11	277.63	2709
1036.00	1364.58	1264.00	2440	2479	75.78	163.78	277.12	2684
1038.00	1367.58	1266.72	2441	2479	75.61	163.45	276.60	2726
1040.00	1370.55	1269.42	2441	2480	75.45	163.12	276.09	2698
1042.00	1373.49	1272.09	2442	2480	75.29	162.81	275.60	2671
1044.00	1376.52	1274.84	2442	2481	75.13	162.47	275.08	2745
1046.00	1379.69	1277.72	2443	2481	74.94	162.10	274.49	2883
1048.00	1382.64	1280.39	2443	2482	74.79	161.79	274.00	2673
1050.00	1385.79	1283.26	2444	2483	74.61	161.42	273.43	2867
1052.00	1388.90	1286.08	2445	2483	74.44	161.07	272.88	2824
1054.00	1391.85	1288.76	2445	2484	74.28	160.76	272.40	2678
1056.00	1394.96	1291.59	2446	2484	74.11	160.41	271.85	2827

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
1058.00	1397.93	1294.28	2447	2485	73.96	160.10	271.36	2696
1060.00	1400.87	1296.95	2447	2485	73.80	159.80	270.88	2670
1062.00	1403.83	1299.64	2448	2486	73.65	159.49	270.40	2690
1064.00	1406.75	1302.30	2448	2486	73.50	159.19	269.93	2653
1066.00	1409.68	1304.96	2448	2486	73.35	158.88	269.45	2666
1068.00	1412.75	1307.75	2449	2487	73.19	158.55	268.93	2791
1070.00	1415.70	1310.44	2449	2487	73.04	158.25	268.46	2682
1072.00	1418.75	1313.20	2450	2488	72.88	157.93	267.95	2766
1074.00	1421.75	1315.93	2451	2488	72.73	157.61	267.46	2729
1076.00	1424.71	1318.62	2451	2489	72.58	157.31	266.99	2691
1078.00	1427.83	1321.45	2452	2489	72.42	156.98	266.46	2831
1080.00	1430.73	1324.09	2452	2490	72.27	156.69	266.01	2635
1082.00	1433.65	1326.74	2452	2490	72.13	156.40	265.56	2650
1084.00	1436.49	1329.32	2453	2490	72.00	156.13	265.13	2586
1086.00	1439.37	1331.94	2453	2490	71.86	155.85	264.69	2615
1088.00	1442.20	1334.51	2453	2491	71.73	155.58	264.27	2570
1090.00	1445.16	1337.20	2454	2491	71.58	155.29	263.81	2687
1092.00	1448.15	1339.92	2454	2491	71.43	154.99	263.33	2723
1094.00	1451.36	1342.84	2455	2492	71.27	154.64	262.79	2916
1096.00	1454.55	1345.74	2456	2493	71.10	154.30	262.24	2903
1098.00	1457.74	1348.64	2457	2494	70.93	153.96	261.70	2904
1100.00	1461.01	1351.61	2457	2495	70.76	153.60	261.14	2970
1102.00	1464.28	1354.59	2458	2496	70.59	153.25	260.57	2979
1104.00	1467.42	1357.44	2459	2496	70.43	152.92	260.06	2853

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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
1106.00	1470.35	1360.11	2460	2497	70.29	152.64	259.62	2669
1108.00	1473.40	1362.89	2460	2497	70.14	152.34	259.14	2777
1110.00	1476.52	1365.72	2461	2498	69.99	152.03	258.64	2831
1112.00	1479.42	1368.36	2461	2498	69.85	151.75	258.21	2641
1114.00	1482.41	1371.09	2462	2499	69.71	151.47	257.76	2727
1116.00	1485.36	1373.78	2462	2499	69.58	151.19	257.32	2691
1118.00	1488.50	1376.65	2463	2500	69.42	150.87	256.81	2866
1120.00	1491.51	1379.39	2463	2500	69.28	150.58	256.35	2743
1122.00	1494.70	1382.30	2464	2501	69.12	150.25	255.83	2912
1124.00	1497.76	1385.08	2465	2501	68.98	149.96	255.36	2783
1126.00	1500.92	1387.96	2465	2502	68.82	149.64	254.86	2881
1128.00	1503.91	1390.70	2466	2503	68.68	149.36	254.41	2733
1130.00	1506.88	1393.41	2466	2503	68.55	149.08	253.97	2709
1132.00	1509.79	1396.06	2467	2503	68.42	148.82	253.56	2653
1134.00	1512.70	1398.72	2467	2504	68.29	148.55	253.14	2660
1136.00	1515.52	1401.29	2467	2504	68.17	148.31	252.75	2570
1138.00	1518.28	1403.81	2467	2504	68.06	148.08	252.38	2520
1140.00	1521.17	1406.45	2467	2504	67.93	147.82	251.98	2640
1142.00	1523.91	1408.95	2468	2504	67.82	147.59	251.62	2496
1144.00	1526.65	1411.45	2468	2504	67.71	147.36	251.26	2508
1146.00	1529.45	1414.01	2468	2504	67.59	147.12	250.88	2551
1148.00	1532.20	1416.52	2468	2504	67.48	146.90	250.52	2511
1150.00	1535.17	1419.23	2468	2504	67.35	146.63	250.09	2711
1152.00	1538.10	1421.90	2469	2505	67.22	146.37	249.68	2673

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
1154.00	1541.01	1424.56	2469	2505	67.10	146.11	249.28	2660
1156.00	1544.13	1427.41	2470	2506	66.96	145.82	248.81	2850
1152.00	1547.14	1430.16	2470	2506	66.82	145.55	248.37	2750
1160.00	1550.22	1432.97	2471	2507	66.69	145.26	247.92	2807
1162.00	1553.20	1435.69	2471	2507	66.56	145.00	247.50	2728
1164.00	1556.30	1438.52	2472	2508	66.42	144.71	247.04	2825
1166.00	1559.25	1441.22	2472	2508	66.29	144.45	246.63	2700
1168.00	1562.17	1443.88	2472	2508	66.17	144.20	246.23	2664
1170.00	1565.13	1446.59	2473	2509	66.05	143.95	245.82	2702
1172.00	1568.27	1449.45	2473	2509	65.91	143.66	245.36	2863
1174.00	1571.21	1452.13	2474	2509	65.79	143.41	244.96	2682
1176.00	1574.34	1454.99	2474	2510	65.65	143.12	244.50	2861
1178.00	1577.30	1457.69	2475	2510	65.52	142.87	244.10	2701
1180.00	1580.35	1460.48	2475	2511	65.39	142.60	243.67	2781
1182.00	1583.49	1463.34	2476	2512	65.26	142.31	243.21	2869
1184.00	1586.51	1466.10	2477	2512	65.13	142.05	242.80	2755
1186.00	1589.67	1468.99	2477	2513	64.99	141.77	242.33	2888
1188.00	1592.78	1471.82	2478	2513	64.86	141.49	241.90	2831
1190.00	1595.91	1474.68	2478	2514	64.72	141.21	241.45	2865
1192.00	1599.28	1477.76	2479	2515	64.57	140.89	240.93	3072
1194.00	1602.64	1480.82	2480	2516	64.42	140.57	240.41	3067
1196.00	1606.06	1483.94	2482	2517	64.26	140.24	239.88	3117
1198.00	1609.19	1486.80	2482	2518	64.13	139.97	239.44	2857
1200.00	1612.60	1489.91	2483	2519	63.97	139.64	238.91	3115

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
1202.00	1616.07	1493.08	2484	2520	63.81	139.31	238.37	3168
1204.00	1620.08	1496.74	2486	2522	63.59	138.86	237.64	3662
1206.00	1624.02	1500.33	2488	2525	63.39	138.43	236.94	3592
1208.00	1627.65	1503.65	2489	2526	63.21	138.06	236.35	3313
1210.00	1631.06	1506.76	2491	2527	63.06	137.75	235.84	3117
1212.00	1634.40	1509.81	2491	2528	62.92	137.44	235.35	3052
1214.00	1637.74	1512.87	2492	2529	62.77	137.14	234.86	3051
1216.00	1641.00	1515.84	2493	2530	62.63	136.86	234.40	2976
1218.00	1644.27	1518.83	2494	2531	62.50	136.57	233.94	2984
1220.00	1647.20	1521.50	2494	2531	62.39	136.35	233.58	2672
1222.00	1649.90	1523.96	2494	2531	62.30	136.16	233.27	2467
1224.00	1652.72	1526.54	2494	2531	62.20	135.95	232.94	2580
1226.00	1655.76	1529.33	2495	2531	62.08	135.70	232.55	2781
1228.00	1658.88	1532.18	2495	2532	61.96	135.45	232.13	2853
1230.00	1661.80	1534.85	2496	2532	61.85	135.23	231.78	2667
1232.00	1665.41	1538.15	2497	2534	61.68	134.88	231.22	3305
1234.00	1668.74	1541.19	2498	2534	61.55	134.59	230.75	3038
1236.00	1672.02	1544.19	2499	2535	61.41	134.31	230.30	3004
1238.00	1675.23	1547.13	2499	2536	61.29	134.05	229.87	2938
1240.00	1678.57	1550.18	2500	2537	61.15	133.76	229.40	3052
1242.00	1681.36	1552.75	2500	2537	61.05	133.56	229.08	2565
1244.00	1684.34	1555.48	2501	2537	60.94	133.34	228.72	2728
1246.00	1687.46	1558.34	2501	2538	60.82	133.09	228.32	2865
1248.00	1691.29	1561.85	2503	2540	60.64	132.71	227.70	3514

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
1250.00	1694.02	1564.36	2503	2540	60.55	132.52	227.40	2505
1252.00	1696.52	1566.65	2503	2539	60.48	132.37	227.15	2293
1254.00	1699.13	1569.05	2502	2539	60.40	132.20	226.88	2397
1256.00	1701.98	1571.66	2503	2539	60.30	132.00	226.56	2609
1258.00	1705.43	1574.82	2504	2540	60.16	131.70	226.07	3167
1260.00	1708.70	1577.83	2504	2541	60.03	131.43	225.63	3005
1262.00	1711.89	1580.76	2505	2542	59.91	131.17	225.22	2933
1264.00	1715.15	1583.75	2506	2542	59.78	130.91	224.79	2987
1266.00	1718.51	1586.84	2507	2543	59.65	130.63	224.33	3090
1268.00	1721.80	1589.86	2508	2544	59.52	130.36	223.90	3021
1270.00	1725.24	1593.03	2509	2545	59.38	130.07	223.42	3168
1272.00	1728.75	1596.25	2510	2547	59.24	129.76	222.92	3221
1274.00	1732.15	1599.38	2511	2548	59.10	129.48	222.46	3128
1276.00	1735.56	1602.51	2512	2549	58.97	129.20	222.00	3129
1278.00	1739.06	1605.73	2513	2550	58.82	128.90	221.51	3226
1280.00	1742.51	1608.90	2514	2551	58.69	128.61	221.04	3171
1282.00	1745.97	1612.09	2515	2552	58.55	128.32	220.57	3187
1284.00	1749.34	1615.19	2516	2553	58.42	128.05	220.13	3100
1286.00	1752.72	1618.30	2517	2554	58.29	127.78	219.68	3111
1288.00	1756.17	1621.48	2518	2555	58.15	127.49	219.22	3174
1290.00	1759.66	1624.69	2519	2556	58.02	127.20	218.74	3212
1292.00	1763.22	1627.97	2520	2557	57.87	126.90	218.25	3279
1294.00	1766.86	1631.32	2521	2559	57.73	126.59	217.74	3351
1296.00	1770.39	1634.56	2522	2560	57.59	126.30	217.26	3241

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
1298.00	1773.91	1637.80	2524	2561	57.45	126.01	216.79	3241
1300.00	1777.32	1640.94	2525	2562	57.32	125.74	216.35	3136
1302.00	1781.01	1644.34	2526	2564	57.17	125.42	215.83	3403
1304.00	1784.66	1647.69	2527	2565	57.03	125.12	215.33	3354
1306.00	1788.19	1650.94	2528	2566	56.89	124.83	214.86	3245
1308.00	1791.85	1654.31	2530	2568	56.75	124.53	214.36	3372
1310.00	1795.45	1657.64	2531	2569	56.61	124.23	213.87	3325
1312.00	1799.08	1660.98	2532	2570	56.47	123.93	213.38	3345
1314.00	1801.60	1663.31	2532	2570	56.40	123.79	213.15	2333
1316.00	1803.89	1665.43	2531	2569	56.34	123.68	212.97	2115
1318.00	1806.24	1667.59	2530	2569	56.29	123.56	212.78	2162
1320.00	1808.56	1669.73	2530	2568	56.23	123.44	212.59	2143
1322.00	1811.13	1672.11	2530	2568	56.16	123.30	212.36	2379
1324.00	1814.86	1675.55	2531	2570	56.01	122.98	211.84	3442
1326.00	1818.46	1678.88	2532	2571	55.88	122.70	211.37	3321
1328.00	1821.55	1681.73	2533	2571	55.78	122.49	211.03	2852
1330.00	1824.82	1684.76	2533	2572	55.66	122.25	210.64	3034
1332.00	1828.12	1687.81	2534	2573	55.55	122.01	210.24	3051
1334.00	1830.46	1689.99	2534	2572	55.49	121.89	210.06	2174
1336.00	1832.81	1692.16	2533	2572	55.44	121.77	209.87	2172
1338.00	1835.75	1694.90	2533	2572	55.35	121.58	209.56	2741
1340.00	1838.84	1697.77	2534	2572	55.25	121.37	209.22	2869
1342.00	1842.45	1701.13	2535	2574	55.11	121.09	208.74	3361
1344.00	1845.66	1704.11	2536	2574	55.01	120.86	208.37	2981

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
1346.00	1849.03	1707.25	2537	2575	54.89	120.61	207.96	3140
1348.00	1852.26	1710.26	2537	2576	54.78	120.39	207.59	3006
1350.00	1855.76	1713.53	2539	2577	54.65	120.12	207.15	3273
1352.00	1859.20	1716.74	2540	2578	54.53	119.86	206.73	3214
1354.00	1862.34	1719.68	2540	2579	54.43	119.65	206.38	2935
1356.00	1865.23	1722.38	2540	2579	54.35	119.47	206.08	2705
1358.00	1869.05	1725.97	2542	2581	54.20	119.15	205.56	3586
1360.00	1872.61	1729.31	2543	2582	54.07	118.88	205.10	3338
1362.00	1875.96	1732.45	2544	2583	53.95	118.63	204.71	3142
1364.00	1879.73	1735.98	2545	2585	53.81	118.33	204.20	3535
1366.00	1883.47	1739.49	2547	2586	53.67	118.03	203.71	3503
1368.00	1887.01	1742.80	2548	2587	53.55	117.77	203.27	3314
1370.00	1890.46	1746.03	2549	2589	53.43	117.52	202.86	3233
1372.00	1893.97	1749.33	2550	2590	53.31	117.26	202.43	3292
1374.00	1897.49	1752.63	2551	2591	53.18	117.00	202.00	3300
1376.00	1900.94	1755.86	2552	2592	53.07	116.75	201.59	3235
1378.00	1904.42	1759.12	2553	2593	52.95	116.50	201.18	3257
1380.00	1906.49	1761.06	2552	2592	52.91	116.41	201.04	1941
1382.00	1908.99	1763.40	2552	2592	52.85	116.29	200.84	2341
1384.00	1912.78	1766.93	2553	2593	52.71	116.00	200.35	3534
1386.00	1916.42	1770.33	2555	2595	52.58	115.73	199.91	3396
1388.00	1919.76	1773.44	2555	2596	52.48	115.50	199.54	3115
1390.00	1923.30	1776.74	2556	2597	52.36	115.25	199.12	3299
1392.00	1926.94	1780.13	2558	2598	52.24	114.98	198.68	3391

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
1394.00	1930.93	1783.86	2559	2600	52.09	114.67	198.15	3722
1396.00	1935.21	1787.85	2561	2603	51.91	114.30	197.54	3998
1398.00	1939.07	1791.45	2563	2604	51.78	114.01	197.05	3590
1400.00	1942.72	1794.84	2564	2606	51.65	113.75	196.62	3391
1402.00	1946.35	1798.21	2565	2607	51.53	113.49	196.20	3376
1404.00	1950.04	1801.65	2566	2608	51.41	113.23	195.76	3434
1406.00	1954.02	1805.35	2568	2610	51.27	112.92	195.25	3703
1408.00	1957.93	1808.98	2570	2612	51.13	112.63	194.77	3630
1410.00	1961.54	1812.34	2571	2613	51.01	112.38	194.35	3358
1412.00	1965.29	1815.82	2572	2614	50.89	112.11	193.91	3486
1414.00	1969.05	1819.32	2573	2616	50.76	111.85	193.47	3492
1416.00	1972.88	1822.88	2575	2617	50.64	111.57	193.01	3561
1418.00	1976.88	1826.59	2576	2619	50.50	111.27	192.51	3712
1420.00	1980.71	1830.14	2578	2621	50.37	111.00	192.06	3548
1422.00	1984.66	1833.80	2579	2623	50.23	110.71	191.58	3669
1424.00	1988.61	1837.48	2581	2624	50.10	110.42	191.10	3671
1426.00	1992.11	1840.72	2582	2625	49.99	110.20	190.73	3248
1428.00	1995.91	1844.25	2583	2627	49.87	109.94	190.29	3522
1430.00	1999.64	1847.70	2584	2628	49.75	109.69	189.88	3453
1432.00	2003.67	1851.43	2586	2630	49.62	109.40	189.39	3732
1434.00	2007.95	1855.40	2588	2632	49.46	109.07	188.84	3971
1436.00	2011.80	1858.96	2589	2634	49.34	108.80	188.40	3562
1438.00	2015.36	1862.26	2590	2635	49.24	108.58	188.03	3298
1440.00	2018.97	1865.61	2591	2636	49.13	108.35	187.65	3344

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
1442.00	2021.75	1868.18	2591	2636	49.07	108.22	187.43	2575
1444.00	2024.94	1871.13	2592	2636	48.99	108.04	187.14	2946
1446.00	2028.78	1874.67	2593	2638	48.87	107.79	186.71	3547
1448.00	2032.70	1878.30	2594	2640	48.74	107.52	186.27	3626
1450.00	2036.02	1881.37	2595	2640	48.65	107.33	185.96	3067
1452.00	2039.81	1884.87	2596	2642	48.54	107.09	185.55	3498
1454.00	2043.25	1888.05	2597	2642	48.44	106.89	185.21	3180
1456.00	2046.95	1891.46	2598	2644	48.34	106.66	184.82	3416
1458.00	2050.53	1894.78	2599	2645	48.24	106.44	184.46	3314
1460.00	2054.32	1898.27	2600	2646	48.12	106.20	184.06	3491
1462.00	2057.74	1901.42	2601	2647	48.03	106.00	183.74	3156
1464.00	2061.50	1904.89	2602	2648	47.92	105.77	183.35	3463
1466.00	2065.19	1908.29	2603	2649	47.82	105.54	182.97	3405
1468.00	2068.14	1911.01	2604	2649	47.75	105.40	182.74	2724
1470.00	2071.92	1914.49	2605	2651	47.64	105.17	182.34	3480
1472.00	2075.48	1917.77	2606	2652	47.54	104.96	182.00	3278
1474.00	2078.65	1920.70	2606	2652	47.47	104.80	181.73	2930
1476.00	2081.31	1923.15	2606	2652	47.42	104.69	181.54	2450
1478.00	2084.01	1925.64	2606	2651	47.36	104.57	181.35	2483
1480.00	2087.61	1928.95	2607	2652	47.26	104.36	181.00	3318
1482.00	2090.87	1931.95	2607	2653	47.18	104.19	180.72	2993
1484.00	2094.34	1935.14	2608	2654	47.09	104.00	180.40	3195
1486.00	2097.89	1938.41	2609	2655	47.00	103.80	180.07	3270
1488.00	2101.82	1942.03	2610	2656	46.89	103.55	179.66	3618

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
1490.00	2105.72	1945.62	2612	2658	46.77	103.31	179.25	3591
1492.00	2109.84	1949.42	2613	2660	46.65	103.04	178.80	3798
1494.00	2113.65	1952.91	2614	2661	46.54	102.82	178.42	3495
1496.00	2117.73	1956.67	2616	2663	46.42	102.56	177.99	3756
1498.00	2121.85	1960.45	2617	2664	46.30	102.29	177.55	3781
1500.00	2125.98	1964.25	2619	2666	46.18	102.03	177.10	3797
1502.00	2129.83	1967.78	2620	2668	46.07	101.80	176.72	3537
1504.00	2133.45	1971.11	2621	2669	45.98	101.61	176.39	3325
1506.00	2136.89	1974.27	2622	2669	45.90	101.43	176.09	3163
1508.00	2140.59	1977.66	2623	2670	45.80	101.22	175.75	3390
1510.00	2144.46	1981.20	2624	2672	45.70	101.00	175.37	3536
1512.00	2148.26	1984.66	2625	2673	45.60	100.78	175.01	3464
1514.00	2152.28	1988.34	2627	2674	45.49	100.54	174.61	3674
1516.00	2156.06	1991.79	2628	2676	45.39	100.34	174.26	3451
1518.00	2159.78	1995.18	2629	2677	45.30	100.13	173.92	3396
1520.00	2163.49	1998.57	2630	2678	45.20	99.93	173.59	3387
1522.00	2166.65	2001.45	2630	2678	45.14	99.79	173.35	2877
1524.00	2169.01	2003.59	2629	2677	45.10	99.71	173.22	2144
1526.00	2172.80	2007.01	2630	2679	45.00	99.51	172.88	3423
1528.00	2178.16	2011.85	2633	2683	44.82	99.10	172.19	4840
1530.00	2182.41	2015.69	2635	2684	44.70	98.85	171.77	3838
1532.00	2188.09	2020.82	2638	2689	44.49	98.40	171.00	5132
1534.00	2193.58	2025.78	2641	2693	44.30	97.98	170.30	4957
1536.00	2198.18	2029.94	2643	2696	44.16	97.69	169.81	4161

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
1538.00	2202.51	2033.85	2645	2698	44.05	97.43	169.38	3907
1540.00	2206.20	2037.18	2646	2698	43.96	97.25	169.07	3333
1542.00	2209.63	2040.28	2646	2699	43.89	97.09	168.80	3098
1544.00	2213.92	2044.16	2648	2701	43.77	96.84	168.39	3884
1546.00	2218.11	2047.96	2649	2703	43.66	96.61	167.99	3792
1548.00	2221.77	2051.26	2650	2703	43.58	96.43	167.69	3305
1550.00	2225.58	2054.71	2651	2705	43.49	96.24	167.37	3445
1552.00	2229.78	2058.48	2653	2706	43.38	96.01	166.98	3770
1554.00	2233.97	2062.18	2654	2708	43.28	95.79	166.61	3704
1556.00	2237.93	2065.73	2655	2709	43.19	95.59	166.27	3547
1558.00	2241.71	2069.16	2656	2710	43.10	95.40	165.95	3431
1560.00	2246.22	2073.25	2658	2712	42.98	95.13	165.50	4090
1562.00	2250.67	2077.29	2660	2714	42.86	94.87	165.06	4041
1564.00	2255.22	2081.42	2662	2717	42.73	94.60	164.61	4132
1566.00	2259.65	2085.44	2663	2719	42.62	94.35	164.18	4017
1568.00	2264.05	2089.44	2665	2721	42.50	94.10	163.76	3998
1570.00	2268.40	2093.41	2667	2723	42.39	93.86	163.35	3970
1572.00	2272.20	2096.87	2668	2724	42.30	93.67	163.04	3464
1574.00	2275.88	2100.23	2669	2725	42.22	93.50	162.75	3355
1576.00	2279.75	2103.76	2670	2726	42.14	93.31	162.43	3534
1578.00	2283.51	2107.19	2671	2727	42.05	93.13	162.13	3427
1580.00	2287.40	2110.74	2672	2728	41.97	92.94	161.80	3551
1582.00	2291.36	2114.37	2673	2729	41.87	92.74	161.47	3629
1584.00	2295.06	2117.76	2674	2730	41.79	92.57	161.18	3391

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
1586.00	2298.85	2121.24	2675	2731	41.71	92.39	160.87	3483
1588.00	2302.88	2124.95	2676	2733	41.61	92.18	160.53	3710
1590.00	2307.31	2129.02	2678	2735	41.50	91.94	160.11	4073
1592.00	2311.60	2132.97	2680	2737	41.39	91.71	159.72	3946
1594.00	2315.36	2136.43	2681	2738	41.31	91.53	159.42	3455
1596.00	2319.31	2140.06	2682	2739	41.22	91.34	159.10	3632
1598.00	2323.42	2143.84	2683	2741	41.13	91.13	158.74	3784
1600.00	2327.11	2147.25	2684	2742	41.05	90.96	158.46	3408
1602.00	2331.21	2151.04	2685	2743	40.95	90.75	158.11	3795
1604.00	2335.52	2155.03	2687	2745	40.85	90.52	157.72	3982
1606.00	2339.83	2159.01	2689	2747	40.74	90.30	157.33	3985
1608.00	2344.20	2163.05	2690	2749	40.64	90.06	156.94	4040
1610.00	2348.39	2166.94	2692	2751	40.54	89.85	156.57	3891
1612.00	2352.87	2171.09	2694	2753	40.42	89.60	156.16	4148
1614.00	2356.50	2174.46	2694	2754	40.35	89.45	155.89	3369
1616.00	2360.51	2178.17	2696	2755	40.26	89.25	155.57	3712
1618.00	2364.37	2181.75	2697	2756	40.18	89.07	155.26	3581
1620.00	2368.28	2185.40	2698	2758	40.09	88.89	154.95	3647
1622.00	2372.22	2189.07	2699	2759	40.01	88.70	154.64	3668
1624.00	2375.97	2192.57	2700	2760	39.93	88.54	154.35	3503
1626.00	2380.06	2196.39	2702	2761	39.84	88.33	154.01	3824
1628.00	2383.92	2200.03	2703	2763	39.75	88.15	153.71	3635
1630.00	2387.73	2203.61	2704	2764	39.67	87.98	153.41	3578
1632.00	2391.46	2207.12	2705	2765	39.60	87.81	153.13	3510

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
1634.00	2395.23	2210.67	2706	2766	39.52	87.64	152.84	3549
1636.00	2398.95	2214.16	2707	2767	39.44	87.48	152.57	3492
1638.00	2402.47	2217.47	2708	2768	39.38	87.33	152.32	3308
1640.00	2406.47	2221.23	2709	2769	39.29	87.14	152.00	3768
1642.00	2410.57	2225.09	2710	2771	39.20	86.95	151.66	3854
1644.00	2414.62	2228.90	2712	2772	39.11	86.76	151.34	3808
1646.00	2418.61	2232.65	2713	2774	39.02	86.57	151.02	3750
1648.00	2422.44	2236.25	2714	2775	38.95	86.40	150.73	3606
1650.00	2426.21	2239.79	2715	2776	38.87	86.24	150.46	3542
1652.00	2430.04	2243.39	2716	2777	38.79	86.07	150.17	3600
1654.00	2433.59	2246.73	2717	2778	38.73	85.92	149.93	3335
1656.00	2437.61	2250.52	2718	2779	38.64	85.74	149.61	3795
1658.00	2441.59	2254.30	2719	2781	38.56	85.55	149.30	3775
1660.00	2445.62	2258.11	2721	2782	38.47	85.37	148.98	3813
1662.00	2449.58	2261.86	2722	2783	38.39	85.19	148.68	3749
1664.00	2453.55	2265.62	2723	2785	38.31	85.01	148.37	3760
1666.00	2457.49	2269.36	2724	2786	38.22	84.83	148.07	3735
1668.00	2461.55	2273.20	2726	2788	38.14	84.65	147.76	3840
1670.00	2465.74	2277.17	2727	2789	38.05	84.45	147.42	3975
1672.00	2471.00	2282.16	2730	2793	37.91	84.14	146.89	4984
1674.00	2475.57	2286.49	2732	2795	37.80	83.90	146.49	4333
1676.00	2479.86	2290.56	2733	2797	37.70	83.70	146.14	4070
1678.00	2483.82	2294.31	2735	2799	37.62	83.53	145.85	3746
1680.00	2488.05	2298.32	2736	2800	37.53	83.33	145.51	4011

COMPANY : ESSO AUSTRALIA LTD

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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
1682.00	2492.59	2302.62	2738	2803	37.43	83.10	145.13	4306
1684.00	2496.79	2306.59	2739	2804	37.34	82.91	144.80	3969
1686.00	2500.92	2310.49	2741	2806	37.26	82.73	144.49	3896
1688.00	2505.34	2314.65	2742	2808	37.16	82.52	144.14	4165
1690.00	2510.00	2319.05	2744	2810	37.06	82.29	143.74	4400
1692.00	2514.22	2323.03	2746	2812	36.97	82.10	143.42	3980
1694.00	2518.52	2327.08	2747	2814	36.88	81.91	143.09	4050
1696.00	2522.66	2330.99	2749	2815	36.80	81.73	142.79	3903
1698.00	2526.81	2334.88	2750	2817	36.72	81.55	142.48	3898
1700.00	2531.01	2338.83	2752	2818	36.63	81.37	142.17	3947
1702.00	2535.06	2342.63	2753	2820	36.56	81.20	141.89	3797
1704.00	2539.03	2346.35	2754	2821	36.48	81.04	141.62	3724
1706.00	2542.62	2349.73	2755	2822	36.42	80.91	141.39	3376
1708.00	2546.06	2352.96	2755	2822	36.37	80.79	141.19	3227
1710.00	2549.73	2356.40	2756	2823	36.31	80.66	141.19	3442
1712.00	2553.75	2360.15	2757	2824	36.23	80.50	140.96	3756
1714.00	2557.72	2363.85	2758	2825	36.16	80.34	140.69	3699
1716.00	2561.88	2367.72	2760	2827	36.08	80.17	140.42	3869
1718.00	2566.04	2371.59	2761	2828	36.01	80.00	140.13	3873
1720.00	2570.23	2375.49	2762	2830	35.93	79.83	139.85	3892
1722.00	2574.62	2379.57	2764	2831	35.84	79.65	139.56	4084
1724.00	2578.93	2383.58	2765	2833	35.76	79.47	139.24	4011
1726.00	2583.20	2387.55	2767	2835	35.68	79.29	138.93	3969
1728.00	2587.70	2391.74	2768	2837	35.59	79.10	138.63	4189

TWO-WAY TRAVEL TIME FROM SRD MS	MEASURED DEPTH FROM KB M	VERTICAL DEPTH FROM SRD M	AVERAGE VELOCITY SRD/GEO M/S	RMS VELOCITY M/S	FIRST NORMAL MOVEOUT MS	SECOND NORMAL MOVEOUT MS	THIRD NORMAL MOVEOUT MS	INTERVAL VELOCITY M/S
1730.00	2592.15	2395.88	2770	2839	35.51	78.91	137.98	4137
1732.00	2596.91	2400.31	2772	2841	35.41	78.70	137.61	4432
1734.00	2601.63	2404.70	2774	2843	35.31	78.49	137.26	4389
1736.00	2606.33	2409.07	2775	2845	35.22	78.28	136.90	4369
1738.00	2610.52	2412.96	2777	2847	35.14	78.12	136.62	3892
1740.00	2614.64	2416.76	2778	2848	35.07	77.96	136.36	3804
1742.00	2618.79	2420.58	2779	2849	35.00	77.81	136.09	3818
1744.00	2623.43	2424.86	2781	2851	34.91	77.61	135.76	4281
1746.00	2628.13	2429.19	2783	2854	34.82	77.41	135.42	4328
1748.00	2632.79	2433.48	2784	2856	34.73	77.22	135.09	4297
1750.00	2637.34	2437.68	2786	2858	34.65	77.03	134.77	4195
1752.00	2641.74	2441.71	2787	2859	34.57	76.86	134.48	4029
1754.00	2646.22	2445.81	2789	2861	34.49	76.69	134.19	4098
1756.00	2650.69	2449.88	2790	2863	34.41	76.52	133.89	4077
1758.00	2654.98	2453.80	2792	2864	34.34	76.36	133.62	3921
1760.00	2659.37	2457.81	2793	2866	34.26	76.20	133.34	4007
1762.00	2663.70	2461.77	2794	2867	34.19	76.04	133.07	3959
1764.00	2667.97	2465.67	2796	2868	34.12	75.88	132.81	3897
1766.00	2672.54	2469.77	2797	2870	34.04	75.71	132.51	4101
1768.00	2677.17	2473.77	2798	2872	33.97	75.55	132.24	4001
1770.00	2681.85	2477.82	2800	2873	33.89	75.39	131.96	4052
1772.00	2686.60	2481.93	2801	2875	33.82	75.22	131.67	4104
1774.00	2691.49	2486.15	2803	2877	33.74	75.04	131.36	4229
1776.00	2696.01	2490.07	2804	2878	33.67	74.89	131.11	3915

COMPANY : ESSO AUSTRALIA LTD

WELL : MOONFISH #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
1778.00	2700.33	2493.99	2805	2880	33.60	74.74	130.85	3923
1780.00	2704.60	2497.94	2807	2881	33.53	74.59	130.58	3948
1782.00	2708.92	2501.93	2808	2882	33.46	74.43	130.32	3987
1784.00	2713.25	2505.93	2809	2884	33.39	74.27	130.05	3998
1786.00	2717.55	2509.90	2811	2885	33.32	74.12	129.79	3974
1788.00	2721.80	2513.83	2812	2887	33.25	73.97	129.53	3932
1790.00	2726.07	2517.77	2813	2888	33.18	73.82	129.28	3941
1792.00	2730.64	2521.85	2815	2890	33.11	73.66	129.01	4073
1794.00	2735.24	2525.90	2816	2891	33.04	73.51	128.74	4049
1796.00	2739.64	2529.76	2817	2893	32.97	73.37	128.50	3864
1798.00	2744.25	2533.81	2818	2894	32.90	73.21	128.23	4054
1800.00	2748.81	2537.82	2820	2896	32.83	73.06	127.97	4008
1802.00	2753.37	2541.83	2821	2897	32.76	72.91	127.71	4012
1804.00	2757.97	2545.86	2822	2899	32.69	72.76	127.45	4031
1806.00	2762.53	2549.85	2824	2900	32.62	72.61	127.20	3988
1808.00	2767.01	2553.77	2825	2901	32.56	72.47	126.96	3913
1810.00	2771.58	2557.76	2826	2903	32.49	72.32	126.70	3991
1812.00	2776.43	2561.99	2828	2905	32.42	72.16	126.42	4238
1814.00	2781.39	2566.33	2829	2907	32.34	71.98	126.12	4336
1816.00	2786.50	2570.79	2831	2909	32.26	71.80	125.81	4459
1818.00	2791.45	2575.11	2833	2911	32.18	71.63	125.52	4320
1820.00	2796.47	2579.49	2835	2913	32.10	71.46	125.23	4376

PE604658

This is an enclosure indicator page.
The enclosure PE604658 is enclosed within the
container PE904281 at this location in this
document.

The enclosure PE604658 has the following characteristics:

ITEM_BARCODE = PE604658
CONTAINER_BARCODE = PE904281
NAME = Drift Corrected Sonic
BASIN = GIPPSLAND
PERMIT = VIC/L10
TYPE = WELL
SUBTYPE = WELL_LOG
DESCRIPTION = Drift Corrected Sonic for
Moonfish-1,ST1
REMARKS =
DATE_CREATED = 27/07/1992
DATE_RECEIVED = 20/01/1993
W_NO = W1064
WELL_NAME = MOONFISH-1
CONTRACTOR = SCHLUMBERGER
CLIENT_OP_CO = ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE604659

This is an enclosure indicator page.
The enclosure PE604659 is enclosed within the
container PE904281 at this location in this
document.

The enclosure PE604659 has the following characteristics:

ITEM_BARCODE = PE604659
CONTAINER_BARCODE = PE904281
 NAME = Seismic Calibration Log
 BASIN = GIPPSLAND
 PERMIT = VIC/L10
 TYPE = WELL
 SUBTYPE = VELOCITY_CHART
DESCRIPTION = Seismic Calibration Log for
 Moonfish-1,ST1
REMARKS =
DATE_CREATED = 27/07/1992
DATE_RECEIVED = 20/01/1993
 W_NO = W1064
 WELL_NAME = MOONFISH-1
CONTRACTOR = SCHLUMBERGER
CLIENT_OP_CO = ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE604660

This is an enclosure indicator page.
The enclosure PE604660 is enclosed within the
container PE904281 at this location in this
document.

The enclosure PE604660 has the following characteristics:

ITEM_BARCODE = PE604660
CONTAINER_BARCODE = PE904281
NAME = Synthetic Seismogram, 45Hz
BASIN = GIPPSLAND
PERMIT = VIC/L10
TYPE = WELL
SUBTYPE = SYNTH_SEISMOGRAPH
DESCRIPTION = Synthetic Seismogram, 45Hz,
Moonfish-1,ST1
REMARKS =
DATE_CREATED = 27/07/1992
DATE_RECEIVED = 20/01/1993
W_NO = W1064
WELL_NAME = MOONFISH-1
CONTRACTOR = SCHLUMBERGER
CLIENT_OP_CO = ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE604661

This is an enclosure indicator page.
The enclosure PE604661 is enclosed within the
container PE904281 at this location in this
document.

The enclosure PE604661 has the following characteristics:

ITEM_BARCODE = PE604661
CONTAINER_BARCODE = PE904281
 NAME = Synthetic Seismogram, 35Hz
 BASIN = GIPPSLAND
 PERMIT = VIC/L10
 TYPE = WELL
 SUBTYPE = SYNTH_SEISMOGRAPH
DESCRIPTION = Synthetic Seismogram, 35Hz,
 Moonfish-1, ST1
REMARKS =
DATE_CREATED = 27/07/1992
DATE_RECEIVED = 20/01/1993
 W_NO = W1064
 WELL_NAME = MOONFISH-1
 CONTRACTOR = SCHLUMBERGER
CLIENT_OP_CO = ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)

PE604662

This is an enclosure indicator page.
The enclosure PE604662 is enclosed within the
container PE904281 at this location in this
document.

The enclosure PE604662 has the following characteristics:

ITEM_BARCODE = PE604662
CONTAINER_BARCODE = PE904281
NAME = Synthetic Seismogram, 25Hz
BASIN = GIPPSLAND
PERMIT = VIC/L10
TYPE = WELL
SUBTYPE = SYNTH_SEISMOGRAPH
DESCRIPTION = Synthetic Seismogram, 25Hz,
Moonfish-1,ST1
REMARKS =
DATE_CREATED = 27/07/1992
DATE_RECEIVED = 20/01/1993
W_NO = W1064
WELL_NAME = MOONFISH-1
CONTRACTOR = SCHLUMBERGER
CLIENT_OP_CO = ESSO AUSTRALIA LIMITED

(Inserted by DNRE - Vic Govt Mines Dept)