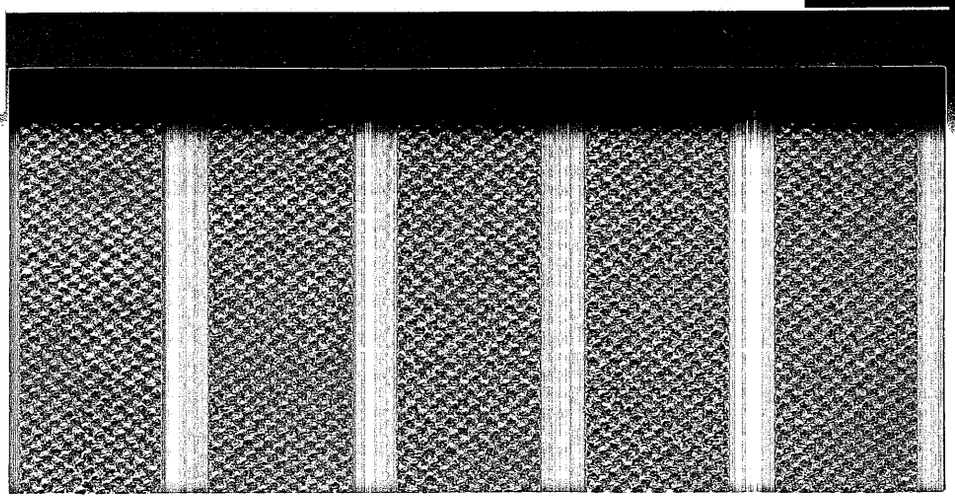


LOG CALIBRATION REPORT

ATTACHMENT TO WCR OF

MUD SKIPPER-1

W1032

LIST OF CONTENTS

PETROFINA EXPLORATION
AUSTRALIA SA

WELL: MUDSKIPPER-1

COMMENT

Well Geophone Survey

A static VSP survey was recorded in this well on 20-6-90 using an airgun source placed 60.8m from the wellhead at 170°, 5m below MSL. The gun hydrophone was placed 5m below the source.

A total of 20 levels were surveyed between 1617m and 250m below kelly bushing. Data quality was very good. Preliminary times were obtained by timing from the first trough on the gun hydrophone signal to the first trough on the well geophone signal then modified using an automated trace alignment procedure for greater accuracy.

The check levels at 350m and 250m below KB are distorted by casing arrivals. It has not been possible to obtain a first arrival time for these levels even fro stacked and filtered data and therefore these levels have been omitted form the final calibration report.

The level at 1071m below KB was recorded twice during the survey and both shots yielded similar measured times. Check levels have been selected for the calculation of reliable interval velocities and the same levels have been used for the sectional display of well geophone data.

Sonic Logs

The sonic logs are represented by the DT, DTL, DTLN and DTLF curves and the DT curve has been edited with reference to the DTL curve. The sonic logs have been edited for noise spikes and reintegrated before calibration. The integrator has been extrapolated 9m below the bottom of the log to include the check level at 1617m below KB in the calibration.

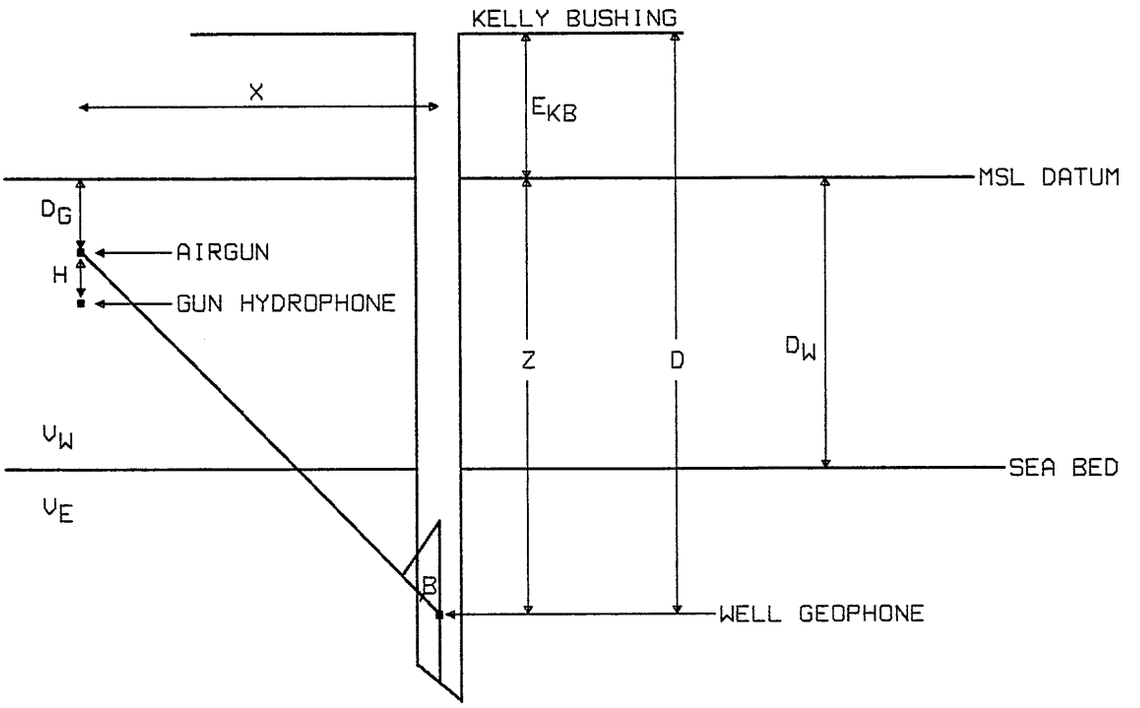
Log Calibration

The sonic log calibration is generally well controlled by the check level data and the general trends indicated have been followed. The calibration results in an average velocity from sea bed to the top of log of 2149m/s.

Processed By: John Boldock

John Boldock

SCHEMATIC CROSS-SECTION



KEY

KB – KELLY BUSHING

E_{KB} – ELEVATION OF KB ABOVE DATUM

D' – MEASURED DEPTH OF WELL GEOPHONE BELOW KB

D – VERTICAL DEPTH OF WELL GEOPHONE BELOW KB

Z – VERTICAL DEPTH OF WELL GEOPHONE BELOW DATUM

D_G – DEPTH OF GUN BELOW M.S.L.

H – DISTANCE BETWEEN GUN AND GUN HYDROPHONE

X – HORIZONTAL DISTANCE BETWEEN WELL GEOPHONE AND GUN

β – INCIDENT ANGLE AT WELL GEOPHONE LEVELS

T – TRAVEL-TIME FROM GUN HYDROPHONE TO WELL GEOPHONE

T_U – TIME FROM GUN TO WELL GEOPHONE CORRECTED TO VERTICAL

[1] BY ASSUMING STRAIGHT LINE TRAVEL PATHS $\left[\left[T + \frac{H}{V_W}\right]\cos\beta\right]$

OR [2] BY ESTIMATING THE TRUE REFRACTED TRAVEL PATHS

T_E – TIME CORRECTION FROM GUN TO DATUM $\left[= \frac{\text{GUN DEPTH}}{V_W}\right]$

T_C – CORRECTED TRAVEL-TIME BETWEEN DATUM AND WELL GEOPHONE = $T_U + T_E$

V_A – Z/T_C [AVERAGE VELOCITY]

V_I – $\Delta Z/\Delta T_C$ [INTERVAL VELOCITY]

D_W – DEPTH OF WATER

V_W – WATER VELOCITY

V_E – ELEVATION VELOCITY

SEISMOGRAPH SERVICE - BOREHOLE GEOPHYSICS DIVISION

COMPANY: PETROFINA EXPLORATION AUSTRALIA S.A.

WELL:MUDSKIPPER-1 EKB= 27.Ø M KB= 27.Ø M AMSL GUN DEPTH 5.Ø M

AIRGUN COMPUTATION VW= 1524 M/S ED= MSL GUN HYDROPHONE DEPTH 1Ø.Ø M

GUN OFFSET 6Ø.8 M

T IS THE TIME MEASURED FROM THE FIRST TROUGH ON THE GUN HYDROPHONE SIGNAL TO THE FIRST TROUGH ON THE WELL GEOPHONE SIGNAL USING AN AUTOMATED TRACE ALIGNMENT PROCEDURE

A TIME CORRECTION FOR THE DISTANCE BETWEEN GUN AND GUN HYDROPHONE AT WATER VELOCITY IS ADDED TO T BEFORE CORRECTION TO THE VERTICAL

TV IS THE TIME FROM THE GUN TO THE WELL GEOPHONE CORRECTED TO THE VERTICAL

TE = GUN DEPTH/VW

RECORD NO	D'	D	Z	X	T	TV	TE	TC	AVERAGE VELOCITY	INTERVAL DEPTH	INTERVAL TIME	INTERVAL VELOCITY
	M	M	M	M	S	S	S	S	M/S	M	S	M/S
18	425.Ø	425.Ø	398.Ø	6Ø.8	Ø.1951	Ø.196Ø	Ø.ØØ33	Ø.1993	1997			
										75.Ø	Ø.Ø289	2595
17	5ØØ.Ø	5ØØ.Ø	473.Ø	6Ø.8	Ø.2235	Ø.2249	Ø.ØØ33	Ø.2282	2Ø73			
										11Ø.Ø	Ø.Ø394	2794
16	61Ø.Ø	61Ø.Ø	583.Ø	6Ø.8	Ø.2625	Ø.2643	Ø.ØØ33	Ø.2676	2179			
										17Ø.Ø	Ø.Ø688	2471
15	78Ø.Ø	78Ø.Ø	753.Ø	6Ø.8	Ø.33Ø9	Ø.3331	Ø.ØØ33	Ø.3364	2239			
										184.Ø	Ø.Ø82Ø	2244
14	964.Ø	964.Ø	937.Ø	6Ø.8	Ø.4127	Ø.4151	Ø.ØØ33	Ø.4184	224Ø			
										1Ø7.Ø	Ø.Ø513	2Ø86
13	1Ø71.Ø	1Ø71.Ø	1Ø44.Ø	6Ø.8	Ø.4639	Ø.4664	Ø.ØØ33	Ø.4697	2223			
										1Ø5.Ø	Ø.Ø437	24Ø4
12	1176.Ø	1176.Ø	1149.Ø	6Ø.8	Ø.5Ø75	Ø.51Ø1	Ø.ØØ33	Ø.5133	2238			
										121.Ø	Ø.Ø459	2633
11	1297.Ø	1297.Ø	127Ø.Ø	6Ø.8	Ø.5534	Ø.556Ø	Ø.ØØ33	Ø.5593	2271			
										1Ø3.Ø	Ø.Ø357	2886
1Ø	14ØØ.Ø	14ØØ.Ø	1373.Ø	6Ø.8	Ø.589Ø	Ø.5917	Ø.ØØ33	Ø.595Ø	23Ø8			
9	1425.Ø	1425.Ø	1398.Ø	6Ø.8	Ø.5972	Ø.5999	Ø.ØØ33	Ø.6Ø32	2318			
8	145Ø.Ø	145Ø.Ø	1423.Ø	6Ø.8	Ø.6Ø57	Ø.6Ø84	Ø.ØØ33	Ø.6117	2326			

7	1475.Ø	1475.Ø	1448.Ø	6Ø.8	Ø.6142	Ø.6169	Ø.ØØ33	Ø.62Ø2	2335			
										1ØØ.Ø	Ø.Ø34Ø	2937
6	15ØØ.Ø	15ØØ.Ø	1473.Ø	6Ø.8	Ø.623Ø	Ø.6258	Ø.ØØ33	Ø.629Ø	2342			
5	1525.Ø	1525.Ø	1498.Ø	6Ø.8	Ø.63Ø6	Ø.6334	Ø.ØØ33	Ø.6367	2353			
4	155Ø.Ø	155Ø.Ø	1523.Ø	6Ø.8	Ø.6352	Ø.638Ø	Ø.ØØ33	Ø.6413	2375			
3	1575.Ø	1575.Ø	1548.Ø	6Ø.8	Ø.6421	Ø.6449	Ø.ØØ33	Ø.6481	2388			
2	16ØØ.Ø	16ØØ.Ø	1573.Ø	6Ø.8	Ø.6479	Ø.65Ø7	Ø.ØØ33	Ø.6539	24Ø5			
										117.Ø	Ø.Ø291	4Ø26
1	1617.Ø	1617.Ø	159Ø.Ø	6Ø.8	Ø.652Ø	Ø.6548	Ø.ØØ33	Ø.6581	2416			

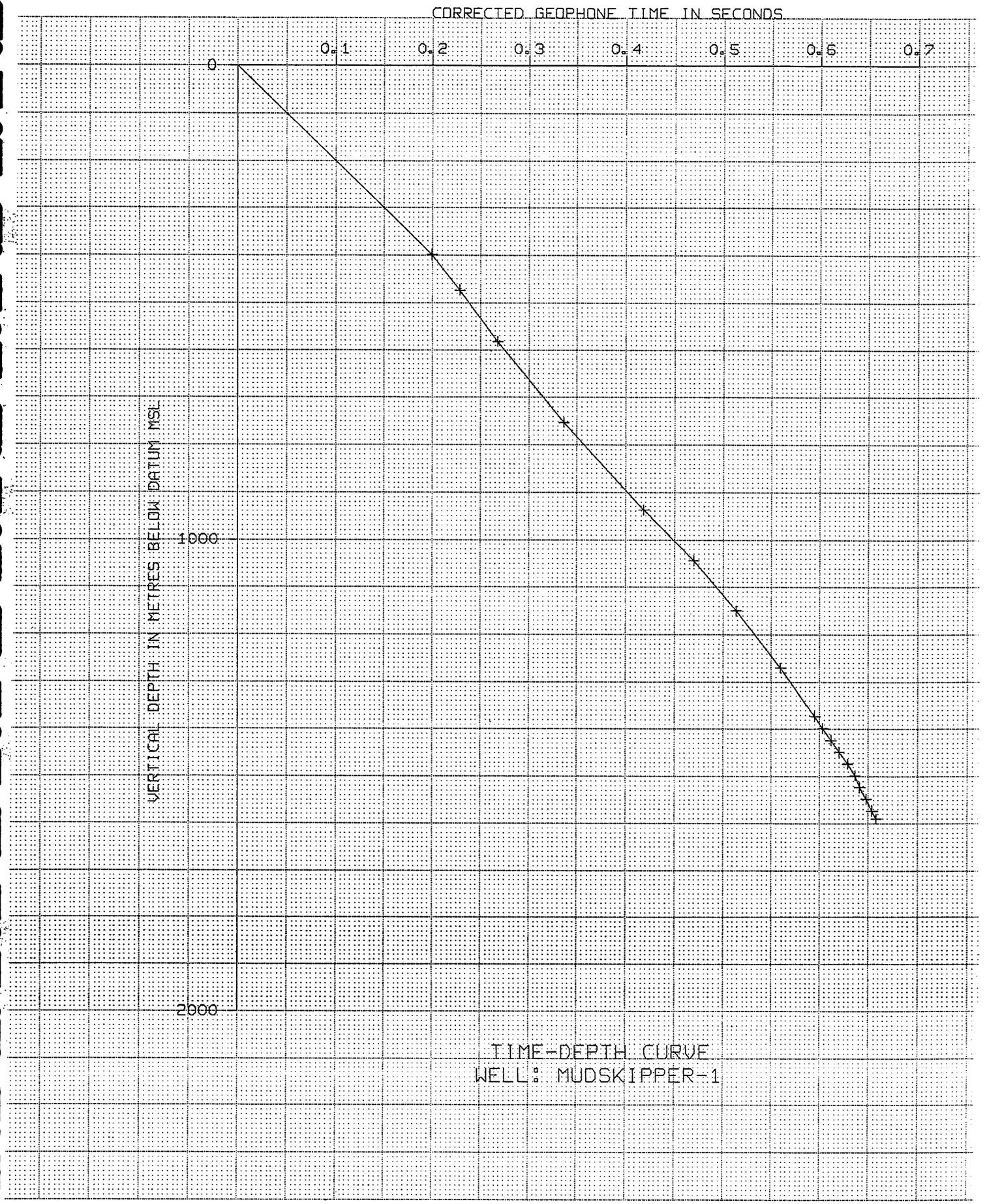
PE906526

This is an enclosure indicator page.
The enclosure PE906526 is enclosed within the container PE903068 at this location in this document.

The enclosure PE906526 has the following characteristics:

ITEM_BARCODE	= PE906526
CONTAINER_BARCODE	= PE903068
NAME	= Interval Velocity Curve
BASIN	= GIPPSLAND
PERMIT	= VIC/P20
TYPE	= WELL
SUBTYPE	= VELOCITY _CHART
DESCRIPTION	= Geophone Data Interval Velocity Curve (enclosure from Attachment to WCR--Log Calibration Report) for Mudskipper-1
REMARKS	=
DATE_CREATED	= 31/07/90
DATE_RECEIVED	= 2/08/90
W_NO	= W1032
WELL_NAME	= MUDSKIPPER-1
CONTRACTOR	=
CLIENT_OP_CO	= PETROFINA EXPLORATION AUSTRALIA

(Inserted by DNRE - Vic Govt Mines Dept)



TIME-DEPTH CURVE
WELL: MUDSKIPPER-1

DESCRIPTION OF SHIFTS USED IN VELOCITY LOG CALIBRATION

TWO TYPES OF SHIFT MAY BE APPLIED :

(1) SHIFTS TO LOWER VELOCITIES WHICH ARE APPLIED LINEARLY.
THESE SHIFTS ARE CALCULATED USING THE FORMULA :-

$$\frac{(T_L - T_C)_2 - (T_L - T_C)_1}{Z_2 - Z_1} \times 10^3$$

WHERE TL AND TC ARE THE TRAVEL TIMES TO A GIVEN CHECK LEVEL, MEASURED FROM THE VELOCITY LOG AND WELL GEOPHONE DATA RESPECTIVELY; AND WHERE Z IS THE DEPTH OF THE CHECK LEVEL BELOW DATUM.
(TL -TC) IS EXPRESSED IN MS (AS ON THE CALIBRATION CURVE) AND THE RESULTING LINEAR SHIFT IS EXPRESSED IN µS/FT.

(2) SHIFTS TO HIGHER VELOCITIES WHICH ARE APPLIED DIFFERENTIALLY IN ORDER TO APPLY LARGER CORRECTIONS TO LOWER VELOCITY SECTIONS OF LOG. THIS IS BASED ON THE ASSUMPTION THAT LOWER VELOCITY SECTIONS OF LOG CONTRIBUTE MORE TRANSIT TIME ERRORS THAN HIGHER VELOCITY SECTIONS DUE TO CAVING AND OTHER BOREHOLE EFFECTS.
ADDITIONALLY, THIS TYPE OF SHIFT MAY BE RESTRICTED BY DEFINING A BASELINE VALUE SUCH THAT SECTIONS OF LOG RECORDED AT A HIGHER VELOCITY THAN THAT OF THE BASELINE WILL RECEIVE NO SHIFT.

RESTRICTED DIFFERENTIAL SHIFTS (UNRESTRICTED SHIFTS WILL HAVE A BASELINE VALUE OF ZERO) ARE CALCULATED USING THE FORMULA :-

$$\left[\frac{(T_{C_2} - T_{C_1}) - (Z_2 - Z_1) \times \text{BASELINE VALUE} \times 10^{-6}}{(T_{L_2} - T_{L_1}) - (Z_2 - Z_1) \times \text{BASELINE VALUE} \times 10^{-6}} \right] \times 100\%$$

WHERE TC AND TL ARE EXPRESSED IN SECONDS AND THE BASELINE VALUE IS EXPRESSED IN µS/FT.

PE906527

This is an enclosure indicator page.
The enclosure PE906527 is enclosed within the container PE903068 at this location in this document.

The enclosure PE906527 has the following characteristics:

ITEM_BARCODE	= PE906527
CONTAINER_BARCODE	= PE903068
NAME	= Log Calibration Curve
BASIN	= GIPPSLAND
PERMIT	= VIC/P20
TYPE	= WELL
SUBTYPE	= VELOCITY _CHART
DESCRIPTION	= Log Calibration Curve (enclosure from attachment to WCR-- Log Calibration Report) for Mudskipper-1
REMARKS	=
DATE_CREATED	= 31/07/90
DATE_RECEIVED	= 2/08/90
W_NO	= W1032
WELL_NAME	= MUDSKIPPER-1
CONTRACTOR	=
CLIENT_OP_CO	= PETROFINA EXPLORATION AUSTRALIA

(Inserted by DNRE - Vic Govt Mines Dept)

SEISMOGRAPH SERVICE - BOREHOLE GEOPHYSICS DIVISION

COMPANY: PETROFINA EXPLORATION AUSTRALIA S.A.

WELL: MUDSKIPPER-1

LISTING OF CALIBRATED VELOCITY LOG DATA
AT 0.0020 SECONDS TWO-WAY TIME INTERVALS

LISTING SHOWS :

TWO-WAY TRAVEL TIME IN SECONDS BELOW DATUM MISLW

VERTICAL DEPTH(D) IN METRES BELOW REFERENCE LEVEL, KB AT 27.0M ABOVE DATUM MISLW

VERTICAL DEPTH(Z) IN METRES BELOW DATUM MISLW

INTERVAL,AVERAGE AND RMS VELOCITIES IN M/SEC

REFLECTION COEFFICIENTS

TWO-WAY TRANSMISSION LOSS

NOTE : THE FIRST INTERVAL VELOCITY IS CALCULATED BETWEEN DATUM AND THE FIRST TIME SAMPLE. SUBSEQUENT INTERVAL VELOCITIES ARE CALCULATED BETWEEN THE CURRENT TIME SAMPLE AND THE PRECEDING TIME SAMPLE.

TIME	DEPTH(D)	DEPTH(Z)	INT.VEL.	AVG.VEL.	RMS.VEL.	REF.CFT.	TRN.LOSS
Ø.34ØØ	351.Ø	324.Ø	19Ø6.Ø	19Ø6.Ø	19Ø6.Ø		
Ø.342Ø	353.4	326.4	24Ø7.6	19Ø9.Ø	19Ø9.4	Ø.1163	Ø.Ø135
Ø.344Ø	355.9	328.9	2445.7	1912.1	1912.9	Ø.ØØ79	Ø.Ø136
Ø.346Ø	358.3	331.3	2425.2	1915.1	1916.3	-Ø.ØØ42	Ø.Ø136
Ø.348Ø	36Ø.7	333.7	2422.4	1918.Ø	1919.6	-Ø.ØØØ6	Ø.Ø136
Ø.35ØØ	363.2	336.2	2435.1	192Ø.9	1922.9	Ø.ØØ26	Ø.Ø136
Ø.352Ø	365.6	338.6	2473.7	1924.1	1926.5	Ø.ØØ79	Ø.Ø137
Ø.354Ø	368.2	341.2	2524.3	1927.5	193Ø.4	Ø.Ø1Ø1	Ø.Ø138
Ø.356Ø	37Ø.6	343.6	2466.7	193Ø.5	1933.8	-Ø.Ø115	Ø.Ø139
Ø.358Ø	373.1	346.1	2462.3	1933.5	1937.2	-Ø.ØØØ9	Ø.Ø139
Ø.36ØØ	375.5	348.5	2456.5	1936.4	194Ø.4	-Ø.ØØ12	Ø.Ø139
Ø.362Ø	378.Ø	351.Ø	2466.7	1939.3	1943.7	Ø.ØØ21	Ø.Ø139
Ø.364Ø	38Ø.5	353.5	2513.3	1942.5	1947.3	Ø.ØØ94	Ø.Ø14Ø
Ø.366Ø	383.Ø	356.Ø	2515.2	1945.6	195Ø.9	Ø.ØØØ4	Ø.Ø14Ø
Ø.368Ø	385.6	358.6	252Ø.2	1948.7	1954.4	Ø.ØØ1Ø	Ø.Ø14Ø
Ø.37ØØ	388.1	361.1	2551.5	1952.Ø	1958.1	Ø.ØØ62	Ø.Ø14Ø
Ø.372Ø	39Ø.7	363.7	2554.9	1955.2	1961.8	Ø.ØØØ7	Ø.Ø14Ø
Ø.374Ø	393.2	366.2	2497.3	1958.1	1965.1	-Ø.Ø114	Ø.Ø142
Ø.376Ø	395.6	368.6	2421.7	196Ø.6	1967.8	-Ø.Ø154	Ø.Ø144
Ø.378Ø	398.1	371.1	253Ø.4	1963.6	1971.2	Ø.Ø219	Ø.Ø149
Ø.38ØØ	4ØØ.7	373.7	2551.7	1966.7	1974.7	Ø.ØØ42	Ø.Ø149
Ø.382Ø	4Ø3.2	376.2	2534.8	1969.7	1978.Ø	-Ø.ØØ33	Ø.Ø149
Ø.384Ø	4Ø5.7	378.7	2534.6	1972.6	1981.3	Ø.ØØØØ	Ø.Ø149
Ø.386Ø	4Ø8.3	381.3	2558.3	1975.6	1984.7	Ø.ØØ47	Ø.Ø149
Ø.388Ø	41Ø.9	383.9	2587.9	1978.8	1988.3	Ø.ØØ57	Ø.Ø149
Ø.39ØØ	413.5	386.5	26Ø9.3	1982.Ø	1992.Ø	Ø.ØØ41	Ø.Ø15Ø
Ø.392Ø	416.1	389.1	2567.9	1985.Ø	1995.4	-Ø.ØØ8Ø	Ø.Ø15Ø
Ø.394Ø	418.7	391.7	2633.9	1988.3	1999.1	Ø.Ø127	Ø.Ø152
Ø.396Ø	421.4	394.4	2654.2	1991.7	2ØØ3.Ø	Ø.ØØ38	Ø.Ø152
Ø.398Ø	424.Ø	397.Ø	2653.Ø	1995.Ø	2ØØ6.8	-Ø.ØØØ2	Ø.Ø152
Ø.4ØØØ	426.6	399.6	2635.7	1998.2	2Ø1Ø.4	-Ø.ØØ33	Ø.Ø152
Ø.4Ø2Ø	429.2	4Ø2.2	2581.1	2ØØ1.1	2Ø13.6	-Ø.Ø1Ø5	Ø.Ø153
Ø.4Ø4Ø	431.8	4Ø4.8	2541.6	2ØØ3.8	2Ø16.6	-Ø.ØØ77	Ø.Ø154
Ø.4Ø6Ø	434.3	4Ø7.3	2569.9	2ØØ6.6	2Ø19.7	Ø.ØØ55	Ø.Ø154
Ø.4Ø8Ø	436.9	4Ø9.9	2596.6	2ØØ9.5	2Ø22.9	Ø.ØØ52	Ø.Ø154
Ø.41ØØ	439.5	412.5	26ØØ.Ø	2Ø12.3	2Ø26.1	Ø.ØØØ7	Ø.Ø154
Ø.412Ø	442.1	415.1	258Ø.Ø	2Ø15.1	2Ø29.2	-Ø.ØØ39	Ø.Ø154
Ø.414Ø	444.7	417.7	26Ø9.4	2Ø18.Ø	2Ø32.4	Ø.ØØ57	Ø.Ø155
Ø.416Ø	447.3	42Ø.3	26Ø1.6	2Ø2Ø.8	2Ø35.5	-Ø.ØØ15	Ø.Ø155
Ø.418Ø	449.9	422.9	2575.3	2Ø23.4	2Ø38.4	-Ø.ØØ51	Ø.Ø155
Ø.42ØØ	452.5	425.5	26Ø8.7	2Ø26.2	2Ø41.5	Ø.ØØ65	Ø.Ø155
Ø.422Ø	455.1	428.1	26Ø1.6	2Ø28.9	2Ø44.5	-Ø.ØØ14	Ø.Ø156
Ø.424Ø	457.7	43Ø.7	26Ø8.7	2Ø31.7	2Ø47.6	Ø.ØØ14	Ø.Ø156
Ø.426Ø	46Ø.3	433.3	2618.9	2Ø34.4	2Ø5Ø.6	Ø.ØØ19	Ø.Ø156
Ø.428Ø	462.9	435.9	26ØØ.9	2Ø37.1	2Ø53.5	-Ø.ØØ34	Ø.Ø156
Ø.43ØØ	465.5	438.5	2613.Ø	2Ø39.8	2Ø56.5	Ø.ØØ23	Ø.Ø156
Ø.432Ø	468.2	441.2	2632.3	2Ø42.5	2Ø59.5	Ø.ØØ37	Ø.Ø156
Ø.434Ø	47Ø.8	443.8	2642.7	2Ø45.3	2Ø62.6	Ø.ØØ2Ø	Ø.Ø156
Ø.436Ø	473.5	446.5	2653.8	2Ø48.1	2Ø65.7	Ø.ØØ21	Ø.Ø156
Ø.438Ø	476.2	449.2	2685.2	2Ø51.Ø	2Ø68.9	Ø.ØØ59	Ø.Ø156
Ø.44ØØ	478.9	451.9	27Ø2.6	2Ø53.9	2Ø72.2	Ø.ØØ32	Ø.Ø156
Ø.442Ø	481.5	454.5	2676.7	2Ø56.7	2Ø75.4	-Ø.ØØ48	Ø.Ø157
Ø.444Ø	484.2	457.2	2686.5	2Ø59.6	2Ø78.5	Ø.ØØ18	Ø.Ø157
Ø.446Ø	486.9	459.9	27Ø2.5	2Ø62.5	2Ø81.8	Ø.ØØ3Ø	Ø.Ø157
Ø.448Ø	489.6	462.6	2699.8	2Ø65.3	2Ø84.9	-Ø.ØØØ5	Ø.Ø157
Ø.45ØØ	492.3	465.3	2649.Ø	2Ø67.9	2Ø87.8	-Ø.ØØ95	Ø.Ø158
Ø.452Ø	495.Ø	468.Ø	2672.4	2Ø7Ø.6	2Ø9Ø.7	Ø.ØØ44	Ø.Ø158
Ø.454Ø	497.7	47Ø.7	27Ø3.6	2Ø73.4	2Ø93.8	Ø.ØØ58	Ø.Ø158

TIME	DEPTH(D)	DEPTH(Z)	INT.VEL.	AVG.VEL.	RMS.VEL.	REF.CFT.	TRN.LOSS
Ø.456Ø	5ØØ.3	473.3	2689.1	2Ø76.1	2Ø96.8	-Ø.ØØ27	Ø.Ø158
Ø.458Ø	5Ø3.Ø	476.Ø	2691.2	2Ø78.8	2Ø99.7	Ø.ØØØ4	Ø.Ø158
Ø.46ØØ	5Ø5.7	478.7	2664.9	2Ø81.3	21Ø2.5	-Ø.ØØ49	Ø.Ø158
Ø.462Ø	5Ø8.4	481.4	2673.7	2Ø83.9	21Ø5.3	Ø.ØØ16	Ø.Ø158
Ø.464Ø	511.Ø	484.Ø	267Ø.1	2Ø86.4	21Ø8.1	-Ø.ØØØ7	Ø.Ø159
Ø.466Ø	513.7	486.7	2689.6	2Ø89.Ø	211Ø.9	Ø.ØØ36	Ø.Ø159
Ø.468Ø	516.5	489.5	2736.Ø	2Ø91.7	2114.Ø	Ø.ØØ85	Ø.Ø159
Ø.47ØØ	519.2	492.2	2725.8	2Ø94.4	2117.Ø	-Ø.ØØ19	Ø.Ø159
Ø.472Ø	521.9	494.9	2733.9	2Ø97.2	212Ø.Ø	Ø.ØØ15	Ø.Ø159
Ø.474Ø	524.7	497.7	2744.4	2Ø99.9	2123.Ø	Ø.ØØ19	Ø.Ø159
Ø.476Ø	527.4	5ØØ.4	2721.1	21Ø2.5	2125.9	-Ø.ØØ43	Ø.Ø16Ø
Ø.478Ø	53Ø.1	5Ø3.1	2736.9	21Ø5.1	2128.8	Ø.ØØ29	Ø.Ø16Ø
Ø.48ØØ	532.9	5Ø5.9	2741.3	21Ø7.8	2131.7	Ø.ØØØ8	Ø.Ø16Ø
Ø.482Ø	535.6	5Ø8.6	2756.7	211Ø.5	2134.7	Ø.ØØ28	Ø.Ø16Ø
Ø.484Ø	538.4	511.4	2724.1	2113.Ø	2137.4	-Ø.ØØ6Ø	Ø.Ø16Ø
Ø.486Ø	541.1	514.1	2757.1	2115.7	214Ø.4	Ø.ØØ6Ø	Ø.Ø16Ø
Ø.488Ø	543.8	516.8	2734.3	2118.2	2143.1	-Ø.ØØ41	Ø.Ø161
Ø.49ØØ	546.6	519.6	2759.Ø	212Ø.8	2146.Ø	Ø.ØØ45	Ø.Ø161
Ø.492Ø	549.4	522.4	278Ø.3	2123.5	2149.Ø	Ø.ØØ38	Ø.Ø161
Ø.494Ø	552.1	525.1	2758.2	2126.1	2151.8	-Ø.ØØ4Ø	Ø.Ø161
Ø.496Ø	554.9	527.9	278Ø.9	2128.7	2154.7	Ø.ØØ41	Ø.Ø161
Ø.498Ø	557.8	53Ø.8	2838.4	2131.6	2157.9	Ø.Ø1Ø2	Ø.Ø162
Ø.5ØØØ	56Ø.6	533.6	2833.9	2134.4	2161.Ø	-Ø.ØØØ8	Ø.Ø162
Ø.5Ø2Ø	563.4	536.4	2839.5	2137.2	2164.1	Ø.ØØ1Ø	Ø.Ø162
Ø.5Ø4Ø	566.3	539.3	2855.4	214Ø.Ø	2167.3	Ø.ØØ28	Ø.Ø162
Ø.5Ø6Ø	569.1	542.1	2857.Ø	2142.9	217Ø.4	Ø.ØØØ3	Ø.Ø162
Ø.5Ø8Ø	572.Ø	545.Ø	2878.4	2145.8	2173.7	Ø.ØØ37	Ø.Ø163
Ø.51ØØ	574.9	547.9	2855.2	2148.5	2176.8	-Ø.ØØ4Ø	Ø.Ø163
Ø.512Ø	577.7	55Ø.7	2772.2	2151.Ø	2179.4	-Ø.Ø147	Ø.Ø165
Ø.514Ø	58Ø.5	553.5	2832.2	2153.6	2182.3	Ø.Ø1Ø7	Ø.Ø166
Ø.516Ø	583.3	556.3	2772.Ø	2156.Ø	2184.9	-Ø.Ø1Ø7	Ø.Ø167
Ø.518Ø	586.1	559.1	2845.8	2158.7	2187.9	Ø.Ø131	Ø.Ø169
Ø.52ØØ	588.9	561.9	2813.3	2161.2	219Ø.6	-Ø.ØØ57	Ø.Ø169
Ø.522Ø	591.8	564.8	2913.2	2164.1	2193.8	Ø.Ø174	Ø.Ø172
Ø.524Ø	594.7	567.7	2873.8	2166.8	2196.8	-Ø.ØØ68	Ø.Ø173
Ø.526Ø	597.6	57Ø.6	2872.7	2169.5	2199.8	-Ø.ØØØ2	Ø.Ø173
Ø.528Ø	6ØØ.5	573.5	2889.5	2172.2	22Ø2.8	Ø.ØØ29	Ø.Ø173
Ø.53ØØ	6Ø3.3	576.3	2881.8	2174.9	22Ø5.8	-Ø.ØØ13	Ø.Ø173
Ø.532Ø	6Ø6.1	579.1	2758.2	2177.1	22Ø8.1	-Ø.Ø219	Ø.Ø177
Ø.534Ø	6Ø8.9	581.9	2791.9	2179.4	221Ø.6	Ø.ØØ61	Ø.Ø178
Ø.536Ø	611.5	584.5	2619.3	2181.Ø	2212.2	-Ø.Ø319	Ø.Ø188
Ø.538Ø	614.Ø	587.Ø	2485.2	2182.2	2213.3	-Ø.Ø263	Ø.Ø195
Ø.54ØØ	616.5	589.5	25Ø1.7	2183.3	2214.5	Ø.ØØ33	Ø.Ø195
Ø.542Ø	619.2	592.2	2726.6	2185.3	2216.6	Ø.Ø43Ø	Ø.Ø213
Ø.544Ø	621.9	594.9	2625.5	2187.Ø	2218.2	-Ø.Ø189	Ø.Ø216
Ø.546Ø	624.3	597.3	243Ø.1	2187.9	2219.Ø	-Ø.Ø386	Ø.Ø231
Ø.548Ø	626.8	599.8	2548.2	2189.2	222Ø.3	Ø.Ø237	Ø.Ø236
Ø.55ØØ	629.3	6Ø2.3	2466.7	219Ø.2	2221.3	-Ø.Ø163	Ø.Ø239
Ø.552Ø	631.8	6Ø4.8	2487.1	2191.3	2222.3	Ø.ØØ41	Ø.Ø239
Ø.554Ø	634.3	6Ø7.3	25Ø9.5	2192.4	2223.4	Ø.ØØ45	Ø.Ø239
Ø.556Ø	636.6	6Ø9.6	2289.4	2192.8	2223.6	-Ø.Ø459	Ø.Ø26Ø
Ø.558Ø	639.2	612.2	2625.2	2194.3	2225.2	Ø.Ø683	Ø.Ø3Ø5
Ø.56ØØ	641.7	614.7	2497.7	2195.4	2226.2	-Ø.Ø249	Ø.Ø311
Ø.562Ø	644.2	617.2	2445.2	2196.3	2227.Ø	-Ø.Ø1Ø6	Ø.Ø312
Ø.564Ø	646.5	619.5	2366.5	2196.9	2227.5	-Ø.Ø164	Ø.Ø315
Ø.566Ø	648.9	621.9	24Ø7.5	2197.6	2228.2	Ø.ØØ86	Ø.Ø316
Ø.568Ø	651.3	624.3	241Ø.9	2198.4	2228.9	Ø.ØØØ7	Ø.Ø316
Ø.57ØØ	653.8	626.8	249Ø.6	2199.4	2229.9	Ø.Ø163	Ø.Ø318

TIME	DEPTH(D)	DEPTH(Z)	INT.VEL.	AVG.VEL.	RMS.VEL.	REF.CFT.	TRN.LOSS
0.5720	656.2	629.2	2344.5	2199.9	2230.3	-0.0302	0.0327
0.5740	658.6	631.6	2418.0	2200.7	2230.9	0.0154	0.0330
0.5760	661.0	634.0	2365.2	2201.2	2231.4	-0.0110	0.0331
0.5780	663.5	636.5	2530.6	2202.4	2232.5	0.0338	0.0342
0.5800	666.0	639.0	2541.4	2203.6	2233.7	0.0021	0.0342
0.5820	668.5	641.5	2462.3	2204.4	2234.5	-0.0158	0.0344
0.5840	670.8	643.8	2318.7	2204.8	2234.8	-0.0300	0.0353
0.5860	673.3	646.3	2444.2	2205.6	2235.5	0.0263	0.0360
0.5880	675.6	648.6	2299.1	2206.0	2235.8	-0.0306	0.0369
0.5900	677.9	650.9	2356.1	2206.5	2236.2	0.0122	0.0370
0.5920	680.3	653.3	2364.1	2207.0	2236.6	0.0017	0.0370
0.5940	682.8	655.8	2483.8	2207.9	2237.5	0.0247	0.0376
0.5960	685.2	658.2	2460.8	2208.8	2238.3	-0.0047	0.0376
0.5980	687.8	660.8	2551.6	2209.9	2239.4	0.0181	0.0379
0.6000	690.2	663.2	2415.8	2210.6	2240.0	-0.0273	0.0387
0.6020	692.6	665.6	2401.8	2211.3	2240.6	-0.0029	0.0387
0.6040	695.2	668.2	2608.4	2212.6	2241.9	0.0412	0.0403
0.6060	697.8	670.8	2620.6	2213.9	2243.2	0.0023	0.0403
0.6080	700.3	673.3	2518.3	2214.9	2244.2	-0.0199	0.0407
0.6100	702.8	675.8	2488.3	2215.8	2245.0	-0.0060	0.0407
0.6120	705.5	678.5	2632.1	2217.2	2246.4	0.0281	0.0415
0.6140	708.0	681.0	2527.8	2218.2	2247.4	-0.0202	0.0419
0.6160	710.5	683.5	2561.5	2219.3	2248.5	0.0066	0.0419
0.6180	713.3	686.3	2741.6	2221.0	2250.3	0.0340	0.0430
0.6200	715.8	688.8	2468.7	2221.8	2251.0	-0.0524	0.0456
0.6220	718.4	691.4	2598.8	2223.0	2252.2	0.0257	0.0463
0.6240	720.8	693.8	2445.8	2223.7	2252.8	-0.0303	0.0471
0.6260	723.2	696.2	2396.7	2224.3	2253.3	-0.0101	0.0472
0.6280	725.8	698.8	2564.2	2225.4	2254.4	0.0338	0.0483
0.6300	728.2	701.2	2433.1	2226.0	2255.0	-0.0262	0.0490
0.6320	730.5	703.5	2313.3	2226.3	2255.2	-0.0252	0.0496
0.6340	732.8	705.8	2314.0	2226.6	2255.3	0.0001	0.0496
0.6360	735.3	708.3	2468.9	2227.3	2256.0	0.0324	0.0506
0.6380	737.9	710.9	2571.9	2228.4	2257.1	0.0204	0.0510
0.6400	740.3	713.3	2393.4	2228.9	2257.5	-0.0360	0.0522
0.6420	742.7	715.7	2471.4	2229.7	2258.2	0.0160	0.0525
0.6440	745.2	718.2	2464.0	2230.4	2258.9	-0.0015	0.0525
0.6460	747.6	720.6	2383.1	2230.9	2259.3	-0.0167	0.0527
0.6480	749.9	722.9	2310.2	2231.1	2259.5	-0.0155	0.0529
0.6500	752.3	725.3	2402.4	2231.6	2259.9	0.0196	0.0533
0.6520	754.6	727.6	2360.2	2232.0	2260.2	-0.0089	0.0534
0.6540	757.0	730.0	2390.6	2232.5	2260.6	0.0064	0.0534
0.6560	759.5	732.5	2449.0	2233.2	2261.2	0.0121	0.0536
0.6580	761.8	734.8	2340.5	2233.5	2261.5	-0.0227	0.0540
0.6600	764.2	737.2	2329.2	2233.8	2261.7	-0.0024	0.0541
0.6620	766.5	739.5	2316.5	2234.1	2261.9	-0.0027	0.0541
0.6640	768.7	741.7	2230.3	2234.0	2261.8	-0.0190	0.0544
0.6660	771.0	744.0	2257.3	2234.1	2261.8	0.0060	0.0544
0.6680	773.1	746.1	2186.8	2234.0	2261.5	-0.0159	0.0547
0.6700	775.4	748.4	2236.6	2234.0	2261.5	0.0112	0.0548
0.6720	777.6	750.6	2249.3	2234.0	2261.4	0.0028	0.0548
0.6740	779.9	752.9	2274.0	2234.1	2261.5	0.0055	0.0548
0.6760	782.2	755.2	2336.7	2234.4	2261.7	0.0136	0.0550
0.6780	784.5	757.5	2267.5	2234.5	2261.7	-0.0150	0.0552
0.6800	786.8	759.8	2252.4	2234.6	2261.7	-0.0033	0.0552
0.6820	789.0	762.0	2255.5	2234.7	2261.7	0.0007	0.0552
0.6840	791.4	764.4	2378.8	2235.1	2262.0	0.0266	0.0559
0.6860	793.7	766.7	2320.5	2235.3	2262.2	-0.0124	0.0560

TIME	DEPTH(D)	DEPTH(Z)	INT.VEL.	AVG.VEL.	RMS.VEL.	REF.CFT.	TRN.LOSS
Ø.688Ø	796.Ø	769.Ø	2285.1	2235.5	2262.2	-Ø.ØØ77	Ø.Ø561
Ø.69ØØ	798.3	771.3	2328.9	2235.7	2262.4	Ø.ØØ95	Ø.Ø562
Ø.692Ø	8ØØ.7	773.7	2397.1	2236.2	2262.8	Ø.Ø144	Ø.Ø564
Ø.694Ø	8Ø2.9	775.9	2215.8	2236.2	2262.7	-Ø.Ø393	Ø.Ø578
Ø.696Ø	8Ø5.2	778.2	2276.6	2236.3	2262.8	Ø.Ø135	Ø.Ø58Ø
Ø.698Ø	8Ø7.5	78Ø.5	2232.4	2236.3	2262.7	-Ø.ØØ98	Ø.Ø581
Ø.7ØØØ	8Ø9.7	782.7	2221.2	2236.2	2262.5	-Ø.ØØ25	Ø.Ø581
Ø.7Ø2Ø	811.9	784.9	2214.1	2236.2	2262.4	-Ø.ØØ16	Ø.Ø581
Ø.7Ø4Ø	814.1	787.1	2171.4	2236.Ø	2262.2	-Ø.ØØ97	Ø.Ø582
Ø.7Ø6Ø	816.3	789.3	2197.Ø	2235.9	2262.Ø	Ø.ØØ59	Ø.Ø582
Ø.7Ø8Ø	818.4	791.4	2147.8	2235.6	2261.7	-Ø.Ø113	Ø.Ø583
Ø.71ØØ	82Ø.5	793.5	2103.9	2235.2	2261.2	-Ø.Ø1Ø3	Ø.Ø584
Ø.712Ø	822.7	795.7	2161.5	2235.Ø	2261.Ø	Ø.Ø135	Ø.Ø586
Ø.714Ø	824.7	797.7	2048.Ø	2234.5	2260.4	-Ø.Ø27Ø	Ø.Ø593
Ø.716Ø	826.8	799.8	2099.4	2234.1	2260.Ø	Ø.Ø124	Ø.Ø594
Ø.718Ø	829.Ø	8Ø2.Ø	2136.Ø	2233.9	2259.6	Ø.ØØ87	Ø.Ø595
Ø.72ØØ	831.Ø	8Ø4.Ø	2069.8	2233.4	2259.1	-Ø.Ø157	Ø.Ø598
Ø.722Ø	833.1	8Ø6.1	2079.4	2233.Ø	2258.6	Ø.ØØ23	Ø.Ø598
Ø.724Ø	835.2	8Ø8.2	2103.1	2232.6	2258.2	Ø.ØØ57	Ø.Ø598
Ø.726Ø	837.3	81Ø.3	2117.2	2232.3	2257.8	Ø.ØØ33	Ø.Ø598
Ø.728Ø	839.4	812.4	2084.Ø	2231.9	2257.4	-Ø.ØØ79	Ø.Ø599
Ø.73ØØ	841.5	814.5	2119.8	2231.6	2257.Ø	Ø.ØØ85	Ø.Ø599
Ø.732Ø	843.7	816.7	2164.7	2231.4	2256.8	Ø.Ø1Ø5	Ø.Ø6ØØ
Ø.734Ø	845.8	818.8	2146.9	2231.2	2256.5	-Ø.ØØ41	Ø.Ø6ØØ
Ø.736Ø	848.Ø	821.Ø	2196.8	2231.1	2256.3	Ø.Ø115	Ø.Ø6Ø2
Ø.738Ø	85Ø.2	823.2	2172.6	223Ø.9	2256.1	-Ø.ØØ55	Ø.Ø6Ø2
Ø.74ØØ	852.4	825.4	2156.7	223Ø.7	2255.8	-Ø.ØØ37	Ø.Ø6Ø2
Ø.742Ø	854.6	827.6	2206.1	223Ø.6	2255.7	Ø.Ø113	Ø.Ø6Ø3
Ø.744Ø	856.7	829.7	2175.7	223Ø.5	2255.5	-Ø.ØØ69	Ø.Ø6Ø4
Ø.746Ø	859.Ø	832.Ø	2208.7	223Ø.4	2255.4	Ø.ØØ75	Ø.Ø6Ø4
Ø.748Ø	861.2	834.2	2218.6	223Ø.4	2255.3	Ø.ØØ22	Ø.Ø6Ø4
Ø.75ØØ	863.4	836.4	2192.6	223Ø.3	2255.1	-Ø.ØØ59	Ø.Ø6Ø5
Ø.752Ø	865.5	838.5	2153.7	223Ø.1	2254.8	-Ø.ØØ9Ø	Ø.Ø6Ø5
Ø.754Ø	867.7	84Ø.7	2158.7	2229.9	2254.6	Ø.ØØ12	Ø.Ø6Ø5
Ø.756Ø	869.8	842.8	2103.2	2229.6	2254.2	-Ø.Ø13Ø	Ø.Ø6Ø7
Ø.758Ø	871.9	844.9	2107.7	2229.3	2253.8	Ø.ØØ11	Ø.Ø6Ø7
Ø.76ØØ	874.1	847.1	2206.5	2229.2	2253.7	Ø.Ø229	Ø.Ø612
Ø.762Ø	876.3	849.3	2236.9	2229.2	2253.7	Ø.ØØ68	Ø.Ø612
Ø.764Ø	878.6	851.6	2223.5	2229.2	2253.6	-Ø.ØØ3Ø	Ø.Ø612
Ø.766Ø	88Ø.8	853.8	2198.9	2229.1	2253.4	-Ø.ØØ56	Ø.Ø613
Ø.768Ø	883.Ø	856.Ø	2241.3	2229.2	2253.4	Ø.ØØ96	Ø.Ø614
Ø.77ØØ	885.2	858.2	2225.3	2229.1	2253.3	-Ø.ØØ36	Ø.Ø614
Ø.772Ø	887.5	86Ø.5	2236.8	2229.2	2253.3	Ø.ØØ26	Ø.Ø614
Ø.774Ø	889.7	862.7	2197.9	2229.1	2253.2	-Ø.ØØ88	Ø.Ø615
Ø.776Ø	891.9	864.9	2281.1	2229.2	2253.2	Ø.Ø186	Ø.Ø618
Ø.778Ø	894.2	867.2	2264.8	2229.3	2253.3	-Ø.ØØ36	Ø.Ø618
Ø.78ØØ	896.4	869.4	2201.8	2229.2	2253.1	-Ø.Ø141	Ø.Ø62Ø
Ø.782Ø	898.6	871.6	2185.1	2229.1	2253.Ø	-Ø.ØØ38	Ø.Ø62Ø
Ø.784Ø	9ØØ.8	873.8	2254.4	2229.2	2253.Ø	Ø.Ø156	Ø.Ø622
Ø.786Ø	9Ø3.1	876.1	2258.4	2229.3	2253.Ø	Ø.ØØØ9	Ø.Ø622
Ø.788Ø	9Ø5.4	878.4	2257.3	2229.3	2253.Ø	-Ø.ØØØ2	Ø.Ø622
Ø.79ØØ	9Ø7.6	88Ø.6	2280.Ø	2229.5	2253.1	Ø.ØØ5Ø	Ø.Ø622
Ø.792Ø	91Ø.Ø	883.Ø	2362.4	2229.8	2253.3	Ø.Ø177	Ø.Ø625
Ø.794Ø	912.2	885.2	2183.8	2229.7	2253.2	-Ø.Ø393	Ø.Ø64Ø
Ø.796Ø	914.4	887.4	2231.Ø	2229.7	2253.1	Ø.Ø107	Ø.Ø641
Ø.798Ø	916.7	889.7	2246.5	2229.7	2253.1	Ø.ØØ35	Ø.Ø641
Ø.8ØØØ	918.9	891.9	2246.2	2229.8	2253.1	-Ø.ØØØ1	Ø.Ø641
Ø.8Ø2Ø	921.3	894.3	2366.6	223Ø.1	2253.4	Ø.Ø261	Ø.Ø647

TIME	DEPTH(D)	DEPTH(Z)	INT.VEL.	AVG.VEL.	RMS.VEL.	REF.CFT.	TRN.LOSS
Ø.8Ø4Ø	923.5	896.5	2246.9	223Ø.2	2253.3	-Ø.Ø259	Ø.Ø654
Ø.8Ø6Ø	925.7	898.7	2177.2	223Ø.Ø	2253.2	-Ø.Ø158	Ø.Ø656
Ø.8Ø8Ø	927.9	9ØØ.9	2238.9	223Ø.Ø	2253.1	Ø.Ø14Ø	Ø.Ø658
Ø.81ØØ	93Ø.2	9Ø3.2	2254.5	223Ø.1	2253.1	Ø.ØØ35	Ø.Ø658
Ø.812Ø	932.4	9Ø5.4	2168.9	223Ø.Ø	2252.9	-Ø.Ø193	Ø.Ø661
Ø.814Ø	934.6	9Ø7.6	2215.8	2229.9	2252.8	Ø.Ø1Ø7	Ø.Ø663
Ø.816Ø	936.8	9Ø9.8	2193.2	2229.8	2252.7	-Ø.ØØ51	Ø.Ø663
Ø.818Ø	939.Ø	912.Ø	2233.8	2229.8	2252.6	Ø.ØØ92	Ø.Ø664
Ø.82ØØ	941.2	914.2	2187.9	2229.7	2252.5	-Ø.Ø1Ø4	Ø.Ø665
Ø.822Ø	943.4	916.4	2224.Ø	2229.7	2252.4	Ø.ØØ82	Ø.Ø665
Ø.824Ø	945.6	918.6	2158.Ø	2229.6	2252.2	-Ø.Ø151	Ø.Ø667
Ø.826Ø	947.8	92Ø.8	2189.9	2229.5	2252.Ø	Ø.ØØ73	Ø.Ø668
Ø.828Ø	95Ø.Ø	923.Ø	2186.5	2229.4	2251.9	-Ø.ØØØ8	Ø.Ø668
Ø.83ØØ	952.1	925.1	2174.7	2229.2	2251.7	-Ø.ØØ27	Ø.Ø668
Ø.832Ø	954.3	927.3	2166.7	2229.1	2251.5	-Ø.ØØ19	Ø.Ø668
Ø.834Ø	956.5	929.5	2189.8	2229.Ø	2251.4	Ø.ØØ53	Ø.Ø668
Ø.836Ø	958.7	931.7	22ØØ.4	2228.9	2251.2	Ø.ØØ24	Ø.Ø668
Ø.838Ø	96Ø.8	933.8	2165.2	2228.8	2251.Ø	-Ø.ØØ81	Ø.Ø669
Ø.84ØØ	963.1	936.1	2219.5	2228.7	2251.Ø	Ø.Ø124	Ø.Ø67Ø
Ø.842Ø	965.3	938.3	2229.1	2228.7	225Ø.9	Ø.ØØ22	Ø.Ø67Ø
Ø.844Ø	967.5	94Ø.5	2237.4	2228.8	225Ø.9	Ø.ØØ18	Ø.Ø67Ø
Ø.846Ø	969.7	942.7	2213.4	2228.7	225Ø.8	-Ø.ØØ54	Ø.Ø671
Ø.848Ø	972.Ø	945.Ø	2284.5	2228.9	225Ø.9	Ø.Ø158	Ø.Ø673
Ø.85ØØ	974.4	947.4	2347.8	2229.1	2251.1	Ø.Ø137	Ø.Ø675
Ø.852Ø	976.6	949.6	2254.9	2229.2	2251.1	-Ø.Ø2Ø2	Ø.Ø678
Ø.854Ø	978.8	951.8	2159.5	2229.Ø	225Ø.9	-Ø.Ø216	Ø.Ø683
Ø.856Ø	981.Ø	954.Ø	224Ø.8	2229.1	225Ø.9	Ø.Ø185	Ø.Ø686
Ø.858Ø	983.2	956.2	2213.Ø	2229.Ø	225Ø.8	-Ø.ØØ63	Ø.Ø686
Ø.86ØØ	985.5	958.5	2271.2	2229.1	225Ø.8	Ø.Ø13Ø	Ø.Ø688
Ø.862Ø	988.Ø	961.Ø	25Ø8.7	2229.8	2251.5	Ø.Ø497	Ø.Ø711
Ø.864Ø	99Ø.5	963.5	2437.4	223Ø.2	2251.9	-Ø.Ø144	Ø.Ø713
Ø.866Ø	992.9	965.9	24Ø5.2	223Ø.6	2252.3	-Ø.ØØ66	Ø.Ø713
Ø.868Ø	995.1	968.1	2228.6	223Ø.6	2252.2	-Ø.Ø381	Ø.Ø727
Ø.87ØØ	997.4	97Ø.4	2269.6	223Ø.7	2252.3	Ø.ØØ91	Ø.Ø728
Ø.872Ø	999.5	972.5	2166.4	223Ø.6	2252.1	-Ø.Ø233	Ø.Ø733
Ø.874Ø	1ØØ1.7	974.7	219Ø.9	223Ø.5	2251.9	Ø.ØØ56	Ø.Ø733
Ø.876Ø	1ØØ3.9	976.9	22ØØ.4	223Ø.4	2251.8	Ø.ØØ22	Ø.Ø733
Ø.878Ø	1ØØ6.1	979.1	2167.Ø	223Ø.3	2251.6	-Ø.ØØ77	Ø.Ø733
Ø.88ØØ	1ØØ8.3	981.3	22ØØ.4	223Ø.2	2251.5	Ø.ØØ77	Ø.Ø734
Ø.882Ø	1Ø1Ø.5	983.5	2181.4	223Ø.1	2251.4	-Ø.ØØ43	Ø.Ø734
Ø.884Ø	1Ø12.7	985.7	2221.6	223Ø.1	2251.3	Ø.ØØ91	Ø.Ø735
Ø.886Ø	1Ø14.9	987.9	2164.8	2229.9	2251.1	-Ø.Ø13Ø	Ø.Ø736
Ø.888Ø	1Ø17.1	99Ø.1	22Ø6.6	2229.9	2251.Ø	Ø.ØØ96	Ø.Ø737
Ø.89ØØ	1Ø19.3	992.3	2238.1	2229.9	2251.Ø	Ø.ØØ71	Ø.Ø738
Ø.892Ø	1Ø21.5	994.5	2231.9	2229.9	225Ø.9	-Ø.ØØ14	Ø.Ø738
Ø.894Ø	1Ø23.8	996.8	2269.7	223Ø.Ø	2251.Ø	Ø.ØØ84	Ø.Ø738
Ø.896Ø	1Ø26.Ø	999.Ø	2199.2	2229.9	225Ø.9	-Ø.Ø158	Ø.Ø741
Ø.898Ø	1Ø28.3	1ØØ1.3	2263.1	223Ø.Ø	225Ø.9	Ø.Ø143	Ø.Ø743
Ø.9ØØØ	1Ø3Ø.5	1ØØ3.5	221Ø.6	223Ø.Ø	225Ø.8	-Ø.Ø117	Ø.Ø744
Ø.9Ø2Ø	1Ø32.8	1ØØ5.8	2312.4	223Ø.1	225Ø.9	Ø.Ø225	Ø.Ø749
Ø.9Ø4Ø	1Ø35.1	1ØØ8.1	2298.7	223Ø.3	2251.Ø	-Ø.ØØ3Ø	Ø.Ø749
Ø.9Ø6Ø	1Ø37.3	1Ø1Ø.3	2241.7	223Ø.3	2251.Ø	-Ø.Ø126	Ø.Ø75Ø
Ø.9Ø8Ø	1Ø39.6	1Ø12.6	2219.6	223Ø.3	2251.Ø	-Ø.ØØ5Ø	Ø.Ø75Ø
Ø.91ØØ	1Ø41.8	1Ø14.8	2257.Ø	223Ø.4	2251.Ø	Ø.ØØ83	Ø.Ø751
Ø.912Ø	1Ø44.1	1Ø17.1	2275.Ø	223Ø.5	2251.Ø	Ø.ØØ4Ø	Ø.Ø751
Ø.914Ø	1Ø46.3	1Ø19.3	2251.3	223Ø.5	2251.Ø	-Ø.ØØ52	Ø.Ø751
Ø.916Ø	1Ø48.6	1Ø21.6	2219.Ø	223Ø.5	2251.Ø	-Ø.ØØ72	Ø.Ø752
Ø.918Ø	1Ø5Ø.7	1Ø23.7	2143.3	223Ø.3	225Ø.7	-Ø.Ø173	Ø.Ø755

TIME	DEPTH(D)	DEPTH(Z)	INT.VEL.	AVG.VEL.	RMS.VEL.	REF.CFT.	TRN.LOSS
0.9200	1053.0	1026.0	2277.7	2230.4	2250.8	0.0304	0.0763
0.9220	1055.3	1028.3	2281.7	2230.5	2250.9	0.0009	0.0763
0.9240	1057.6	1030.6	2294.9	2230.6	2251.0	0.0029	0.0763
0.9260	1060.0	1033.0	2423.0	2231.1	2251.3	0.0271	0.0770
0.9280	1062.3	1035.3	2311.0	2231.2	2251.5	-0.0236	0.0775
0.9300	1064.6	1037.6	2335.3	2231.4	2251.7	0.0052	0.0776
0.9320	1066.9	1039.9	2274.8	2231.5	2251.7	-0.0131	0.0777
0.9340	1069.1	1042.1	2210.9	2231.5	2251.6	-0.0142	0.0779
0.9360	1071.4	1044.4	2254.3	2231.5	2251.6	0.0097	0.0780
0.9380	1073.7	1046.7	2336.1	2231.8	2251.8	0.0178	0.0783
0.9400	1076.0	1049.0	2309.8	2231.9	2251.9	-0.0056	0.0783
0.9420	1078.3	1051.3	2334.8	2232.2	2252.1	0.0054	0.0783
0.9440	1080.7	1053.7	2324.6	2232.3	2252.3	-0.0022	0.0783
0.9460	1082.9	1055.9	2246.6	2232.4	2252.3	-0.0171	0.0786
0.9480	1085.1	1058.1	2191.4	2232.3	2252.1	-0.0124	0.0788
0.9500	1087.4	1060.4	2287.4	2232.4	2252.2	0.0214	0.0792
0.9520	1089.7	1062.7	2288.2	2232.5	2252.3	0.0002	0.0792
0.9540	1091.9	1064.9	2257.0	2232.6	2252.3	-0.0069	0.0792
0.9560	1094.2	1067.2	2271.2	2232.7	2252.3	0.0032	0.0792
0.9580	1096.5	1069.5	2311.0	2232.8	2252.5	0.0087	0.0793
0.9600	1098.9	1071.9	2366.7	2233.1	2252.7	0.0119	0.0794
0.9620	1101.3	1074.3	2373.4	2233.4	2253.0	0.0014	0.0794
0.9640	1103.6	1076.6	2371.6	2233.7	2253.2	-0.0004	0.0794
0.9660	1105.9	1078.9	2280.4	2233.8	2253.3	-0.0196	0.0798
0.9680	1108.2	1081.2	2291.4	2233.9	2253.3	0.0024	0.0798
0.9700	1110.5	1083.5	2291.9	2234.0	2253.4	0.0001	0.0798
0.9720	1112.8	1085.8	2350.0	2234.3	2253.6	0.0125	0.0799
0.9740	1115.2	1088.2	2304.7	2234.4	2253.7	-0.0097	0.0800
0.9760	1117.5	1090.5	2308.8	2234.5	2253.8	0.0009	0.0800
0.9780	1119.7	1092.7	2275.1	2234.6	2253.9	-0.0073	0.0801
0.9800	1122.1	1095.1	2357.1	2234.9	2254.1	0.0177	0.0804
0.9820	1124.5	1097.5	2394.7	2235.2	2254.4	0.0079	0.0804
0.9840	1126.8	1099.8	2291.5	2235.3	2254.5	-0.0220	0.0809
0.9860	1129.1	1102.1	2346.7	2235.5	2254.7	0.0119	0.0810
0.9880	1131.5	1104.5	2389.3	2235.9	2254.9	0.0090	0.0811
0.9900	1133.8	1106.8	2323.6	2236.0	2255.1	-0.0139	0.0812
0.9920	1136.2	1109.2	2343.4	2236.3	2255.3	0.0042	0.0813
0.9940	1138.5	1111.5	2291.5	2236.4	2255.3	-0.0112	0.0814
0.9960	1140.9	1113.9	2389.9	2236.7	2255.6	0.0210	0.0818
0.9980	1143.2	1116.2	2299.3	2236.8	2255.7	-0.0193	0.0821
1.0000	1145.6	1118.6	2400.8	2237.1	2256.0	0.0216	0.0826
1.0020	1148.0	1121.0	2481.1	2237.6	2256.5	0.0165	0.0828
1.0040	1150.3	1123.3	2288.0	2237.7	2256.5	-0.0405	0.0843
1.0060	1152.5	1125.5	2214.0	2237.7	2256.5	-0.0164	0.0846
1.0080	1154.8	1127.8	2288.7	2237.8	2256.5	0.0166	0.0848
1.0100	1157.1	1130.1	2278.2	2237.8	2256.6	-0.0023	0.0848
1.0120	1159.4	1132.4	2327.5	2238.0	2256.7	0.0107	0.0849
1.0140	1161.8	1134.8	2408.1	2238.4	2257.0	0.0170	0.0852
1.0160	1164.1	1137.1	2298.0	2238.5	2257.1	-0.0234	0.0857
1.0180	1166.5	1139.5	2375.5	2238.7	2257.3	0.0166	0.0859
1.0200	1168.9	1141.9	2341.3	2238.9	2257.5	-0.0072	0.0860
1.0220	1171.2	1144.2	2367.7	2239.2	2257.7	0.0056	0.0860
1.0240	1173.6	1146.6	2335.6	2239.4	2257.9	-0.0068	0.0860
1.0260	1176.0	1149.0	2415.3	2239.7	2258.2	0.0168	0.0863
1.0280	1178.4	1151.4	2464.5	2240.2	2258.6	0.0101	0.0864
1.0300	1181.0	1154.0	2560.7	2240.8	2259.2	0.0191	0.0867
1.0320	1183.6	1156.6	2626.3	2241.5	2260.0	0.0127	0.0869
1.0340	1186.2	1159.2	2566.9	2242.2	2260.6	-0.0114	0.0870

TIME	DEPTH(D)	DEPTH(Z)	INT.VEL.	AVG.VEL.	RMS.VEL.	REF.CFT.	TRN.LOSS
1.0360	1188.7	1161.7	2508.1	2242.7	2261.2	-0.0116	0.0871
1.0380	1191.3	1164.3	2595.2	2243.4	2261.8	0.0171	0.0874
1.0400	1193.9	1166.9	2628.4	2244.1	2262.6	0.0064	0.0874
1.0420	1196.6	1169.6	2626.5	2244.8	2263.4	-0.0004	0.0874
1.0440	1199.1	1172.1	2543.0	2245.4	2263.9	-0.0162	0.0877
1.0460	1201.6	1174.6	2541.3	2246.0	2264.5	-0.0003	0.0877
1.0480	1204.2	1177.2	2519.2	2246.5	2265.0	-0.0044	0.0877
1.0500	1206.8	1179.8	2645.3	2247.3	2265.8	0.0244	0.0882
1.0520	1209.4	1182.4	2588.1	2247.9	2266.4	-0.0109	0.0883
1.0540	1212.0	1185.0	2579.8	2248.5	2267.1	-0.0016	0.0883
1.0560	1214.5	1187.5	2565.7	2249.1	2267.7	-0.0028	0.0883
1.0580	1216.9	1189.9	2379.2	2249.4	2267.9	-0.0377	0.0896
1.0600	1219.4	1192.4	2526.4	2249.9	2268.4	0.0300	0.0905
1.0620	1221.9	1194.9	2445.7	2250.3	2268.8	-0.0162	0.0907
1.0640	1224.5	1197.5	2619.9	2251.0	2269.5	0.0344	0.0918
1.0660	1227.1	1200.1	2631.1	2251.7	2270.2	0.0021	0.0918
1.0680	1229.7	1202.7	2555.8	2252.2	2270.8	-0.0145	0.0920
1.0700	1232.3	1205.3	2621.9	2252.9	2271.5	0.0128	0.0921
1.0720	1234.8	1207.8	2511.8	2253.4	2272.0	-0.0214	0.0925
1.0740	1237.4	1210.4	2535.8	2253.9	2272.5	0.0047	0.0926
1.0760	1239.9	1212.9	2541.7	2254.5	2273.0	0.0012	0.0926
1.0780	1242.5	1215.5	2559.6	2255.0	2273.6	0.0035	0.0926
1.0800	1245.1	1218.1	2625.0	2255.7	2274.3	0.0126	0.0927
1.0820	1247.7	1220.7	2577.5	2256.3	2274.9	-0.0091	0.0928
1.0840	1250.3	1223.3	2649.4	2257.1	2275.6	0.0138	0.0930
1.0860	1252.9	1225.9	2557.7	2257.6	2276.2	-0.0176	0.0932
1.0880	1255.5	1228.5	2618.7	2258.3	2276.8	0.0118	0.0934
1.0900	1258.1	1231.1	2554.6	2258.8	2277.4	-0.0124	0.0935
1.0920	1260.7	1233.7	2654.9	2259.5	2278.1	0.0193	0.0938
1.0940	1263.3	1236.3	2562.3	2260.1	2278.7	-0.0178	0.0941
1.0960	1265.8	1238.8	2538.2	2260.6	2279.2	-0.0047	0.0941
1.0980	1268.5	1241.5	2707.2	2261.4	2280.0	0.0322	0.0951
1.1000	1271.2	1244.2	2710.7	2262.2	2280.9	0.0007	0.0951
1.1020	1273.8	1246.8	2590.0	2262.8	2281.5	-0.0228	0.0956
1.1040	1276.3	1249.3	2472.9	2263.2	2281.9	-0.0231	0.0960
1.1060	1278.9	1251.9	2637.5	2263.9	2282.5	0.0322	0.0970
1.1080	1281.9	1254.9	2953.6	2265.1	2283.9	0.0565	0.0999
1.1100	1284.7	1257.7	2826.4	2266.1	2285.0	-0.0220	0.1003
1.1120	1287.7	1260.7	2987.3	2267.4	2286.5	0.0277	0.1010
1.1140	1290.6	1263.6	2944.8	2268.6	2287.8	-0.0072	0.1010
1.1160	1293.4	1266.4	2735.1	2269.5	2288.7	-0.0369	0.1023
1.1180	1296.1	1269.1	2686.0	2270.2	2289.5	-0.0091	0.1023
1.1200	1299.0	1272.0	2931.4	2271.4	2290.8	0.0437	0.1041
1.1220	1301.9	1274.9	2885.3	2272.5	2292.0	-0.0079	0.1041
1.1240	1304.6	1277.6	2748.2	2273.4	2292.9	-0.0243	0.1046
1.1260	1307.5	1280.5	2828.5	2274.3	2293.9	0.0144	0.1048
1.1280	1310.3	1283.3	2857.3	2275.4	2295.1	0.0051	0.1048
1.1300	1313.1	1286.1	2768.8	2276.2	2296.0	-0.0157	0.1051
1.1320	1315.9	1288.9	2818.8	2277.2	2297.0	0.0090	0.1051
1.1340	1318.7	1291.7	2796.5	2278.1	2298.0	-0.0040	0.1052
1.1360	1321.4	1294.4	2737.2	2278.9	2298.8	-0.0107	0.1053
1.1380	1324.3	1297.3	2842.5	2279.9	2299.9	0.0189	0.1056
1.1400	1327.2	1300.2	2901.2	2281.0	2301.1	0.0102	0.1057
1.1420	1330.0	1303.0	2775.8	2281.9	2302.0	-0.0221	0.1061
1.1440	1332.9	1305.9	2909.9	2283.0	2303.2	0.0236	0.1066
1.1460	1335.7	1308.7	2875.7	2284.0	2304.3	-0.0059	0.1066
1.1480	1338.5	1311.5	2774.8	2284.9	2305.3	-0.0179	0.1069
1.1500	1341.3	1314.3	2804.1	2285.8	2306.2	0.0053	0.1069

TIME	DEPTH(D)	DEPTH(Z)	INT.VEL.	AVG.VEL.	RMS.VEL.	REF.CFT.	TRN.LOSS
1.1520	1344.2	1317.2	2838.3	2286.7	2307.2	0.0061	0.1070
1.1540	1346.9	1319.9	2790.6	2287.6	2308.2	-0.0085	0.1070
1.1560	1349.7	1322.7	2750.7	2288.4	2309.0	-0.0072	0.1071
1.1580	1352.5	1325.5	2852.7	2289.4	2310.1	0.0182	0.1074
1.1600	1355.3	1328.3	2778.8	2290.2	2310.9	-0.0131	0.1075
1.1620	1358.1	1331.1	2811.2	2291.1	2311.9	0.0058	0.1076
1.1640	1361.0	1334.0	2852.5	2292.1	2312.9	0.0073	0.1076
1.1660	1363.9	1336.9	2916.6	2293.2	2314.1	0.0111	0.1077
1.1680	1366.8	1339.8	2888.3	2294.2	2315.2	-0.0049	0.1077
1.1700	1369.8	1342.8	2981.6	2295.3	2316.5	0.0159	0.1080
1.1720	1372.9	1345.9	3138.9	2296.8	2318.2	0.0257	0.1086
1.1740	1376.0	1349.0	3124.0	2298.2	2319.8	-0.0024	0.1086
1.1760	1379.1	1352.1	3076.4	2299.5	2321.3	-0.0077	0.1086
1.1780	1382.0	1355.0	2917.2	2300.6	2322.4	-0.0266	0.1092
1.1800	1385.0	1358.0	2929.3	2301.6	2323.6	0.0021	0.1093
1.1820	1387.9	1360.9	2926.4	2302.7	2324.7	-0.0005	0.1093
1.1840	1390.9	1363.9	2989.1	2303.8	2326.0	0.0106	0.1094
1.1860	1393.8	1366.8	2919.1	2304.9	2327.1	-0.0119	0.1095
1.1880	1396.8	1369.8	2954.0	2306.0	2328.3	0.0059	0.1095
1.1900	1399.7	1372.7	2997.1	2307.1	2329.6	0.0072	0.1096
1.1920	1402.8	1375.8	3008.5	2308.3	2330.9	0.0019	0.1096
1.1940	1405.7	1378.7	2899.0	2309.3	2332.0	-0.0185	0.1099
1.1960	1408.6	1381.6	2973.3	2310.4	2333.2	0.0126	0.1100
1.1980	1411.5	1384.5	2868.2	2311.3	2334.2	-0.0180	0.1103
1.2000	1414.5	1387.5	3023.8	2312.5	2335.5	0.0264	0.1109
1.2020	1417.6	1390.6	3031.0	2313.7	2336.9	0.0012	0.1109
1.2040	1420.5	1393.5	2996.2	2314.9	2338.1	-0.0058	0.1109
1.2060	1423.4	1396.4	2836.7	2315.7	2339.0	-0.0274	0.1116
1.2080	1426.5	1399.5	3117.8	2317.1	2340.5	0.0472	0.1136
1.2100	1429.4	1402.4	2879.5	2318.0	2341.5	-0.0397	0.1150
1.2120	1432.4	1405.4	3019.9	2319.1	2342.8	0.0238	0.1155
1.2140	1435.5	1408.5	3072.6	2320.4	2344.2	0.0087	0.1156
1.2160	1438.6	1411.6	3136.1	2321.7	2345.7	0.0102	0.1157
1.2180	1441.7	1414.7	3062.0	2322.9	2347.1	-0.0120	0.1158
1.2200	1444.8	1417.8	3136.1	2324.3	2348.6	0.0120	0.1159
1.2220	1447.9	1420.9	3073.1	2325.5	2349.9	-0.0101	0.1160
1.2240	1450.4	1423.4	2525.6	2325.8	2350.2	-0.0978	0.1244
1.2260	1453.0	1426.0	2547.0	2326.2	2350.6	0.0042	0.1245
1.2280	1455.6	1428.6	2624.3	2326.7	2351.0	0.0149	0.1247
1.2300	1458.3	1431.3	2674.2	2327.2	2351.6	0.0094	0.1247
1.2320	1460.9	1433.9	2612.9	2327.7	2352.1	-0.0116	0.1249
1.2340	1463.8	1436.8	2898.8	2328.6	2353.0	0.0519	0.1272
1.2360	1466.6	1439.6	2861.9	2329.5	2354.0	-0.0064	0.1272
1.2380	1469.3	1442.3	2669.2	2330.0	2354.5	-0.0348	0.1283
1.2400	1472.4	1445.4	3099.1	2331.3	2355.9	0.0745	0.1331
1.2420	1475.9	1448.9	3497.1	2333.2	2358.2	0.0603	0.1363
1.2440	1478.7	1451.7	2840.0	2334.0	2359.0	-0.1037	0.1456
1.2460	1481.7	1454.7	2944.6	2335.0	2360.1	0.0181	0.1459
1.2480	1484.6	1457.6	2959.0	2336.0	2361.2	0.0024	0.1459
1.2500	1487.6	1460.6	2960.8	2337.0	2362.2	0.0003	0.1459
1.2520	1490.5	1463.5	2946.9	2337.9	2363.3	-0.0024	0.1459
1.2540	1493.4	1466.4	2851.1	2338.7	2364.2	-0.0165	0.1461
1.2560	1496.2	1469.2	2828.4	2339.5	2365.0	-0.0040	0.1461
1.2580	1499.1	1472.1	2902.1	2340.4	2365.9	0.0129	0.1463
1.2600	1502.1	1475.1	2973.0	2341.4	2367.0	0.0121	0.1464
1.2620	1505.2	1478.2	3079.0	2342.6	2368.3	0.0175	0.1467
1.2640	1508.0	1481.0	2817.3	2343.3	2369.1	-0.0444	0.1483
1.2660	1510.8	1483.8	2827.5	2344.1	2369.9	0.0018	0.1483

TIME	DEPTH(D)	DEPTH(Z)	INT.VEL.	AVG.VEL.	RMS.VEL.	REF.CFT.	TRN.LOSS
1.2680	1513.7	1486.7	2852.9	2344.9	2370.7	0.0045	0.1484
1.2700	1516.5	1489.5	2837.9	2345.7	2371.5	-0.0026	0.1484
1.2720	1519.3	1492.3	2820.3	2346.4	2372.3	-0.0031	0.1484
1.2740	1522.1	1495.1	2800.4	2347.1	2373.0	-0.0035	0.1484
1.2760	1525.7	1498.7	3535.5	2349.0	2375.3	0.1160	0.1598
1.2780	1530.3	1503.3	4613.8	2352.6	2380.4	0.1323	0.1745
1.2800	1534.9	1507.9	4584.0	2356.0	2385.5	-0.0032	0.1746
1.2820	1539.5	1512.5	4630.7	2359.6	2390.6	0.0051	0.1746
1.2840	1544.2	1517.2	4666.4	2363.2	2395.8	0.0038	0.1746
1.2860	1548.8	1521.8	4662.1	2366.8	2401.0	-0.0005	0.1746
1.2880	1553.6	1526.6	4734.3	2370.4	2406.4	0.0077	0.1746
1.2900	1558.2	1531.2	4662.1	2374.0	2411.5	-0.0077	0.1747
1.2920	1562.9	1535.9	4726.0	2377.6	2416.8	0.0068	0.1747
1.2940	1567.9	1540.9	4924.6	2381.6	2422.7	0.0206	0.1751
1.2960	1572.8	1545.8	4939.3	2385.5	2428.6	0.0015	0.1751
1.2980	1577.8	1550.8	4943.7	2389.5	2434.5	0.0004	0.1751
1.3000	1582.9	1555.9	5108.8	2393.6	2440.8	0.0164	0.1753
1.3020	1587.7	1560.7	4800.5	2397.3	2446.2	-0.0311	0.1761
1.3040	1592.3	1565.3	4650.3	2400.8	2451.1	-0.0159	0.1763
1.3060	1597.0	1570.0	4717.8	2404.3	2456.2	0.0072	0.1763
1.3080	1601.6	1574.6	4543.2	2407.6	2460.7	-0.0188	0.1766
1.3100	1605.8	1578.8	4257.8	2410.4	2464.5	-0.0324	0.1775
1.3120	1610.8	1583.8	4921.6	2414.3	2470.1	0.0723	0.1818
1.3140	1615.6	1588.6	4885.9	2418.0	2475.5	-0.0036	0.1818

PE901833

This is an enclosure indicator page.
The enclosure PE901833 is enclosed within the container PE903068 at this location in this document.

The enclosure PE901833 has the following characteristics:

ITEM_BARCODE	= PE901833
CONTAINER_BARCODE	= PE903068
NAME	= Display of Well Gephone Records
BASIN	= GIPPSLAND
PERMIT	= VIC/P20
TYPE	= SEISMIC
SUBTYPE	= CHART
DESCRIPTION	= Sectional Display of Well Geophone Signals, Mudskipper-1
REMARKS	=
DATE_CREATED	= 31/07/90
DATE_RECEIVED	= 2/08/90
W_NO	= W1032
WELL_NAME	= MUDSKIPPER-1
CONTRACTOR	=
CLIENT_OP_CO	= PETROFINA EXPLORATION AUSTRALIA

(Inserted by DNRE - Vic Govt Mines Dept)