

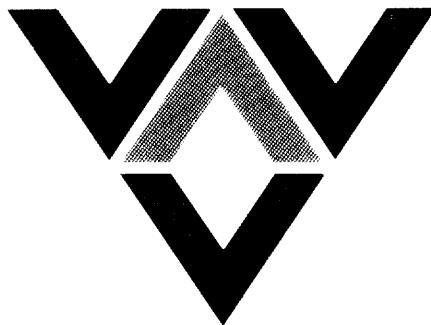


PE905695

APPENDIX 7 FROM WOR
VELOCITY DATA
BOGGY CREEK -1
W1053

APPENDIX -7

Velocity Survey Velocity Data



BOGGY CREEK #1

PEP 104

Victoria

for

Gas and Fuel Exploration N.L.

recorded by

VELOCITY DATA PTY. LTD.

processed by

Integrated Seismic Technologies

Brisbane, Australia

January 21, 1992

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142°

143°

BALLARAT

VICTORIA

36°

39°

SOUTHERN
OCEAN

PORT FADY WARRNAMBOOL

BOGGY CREEK No.1

COLAC

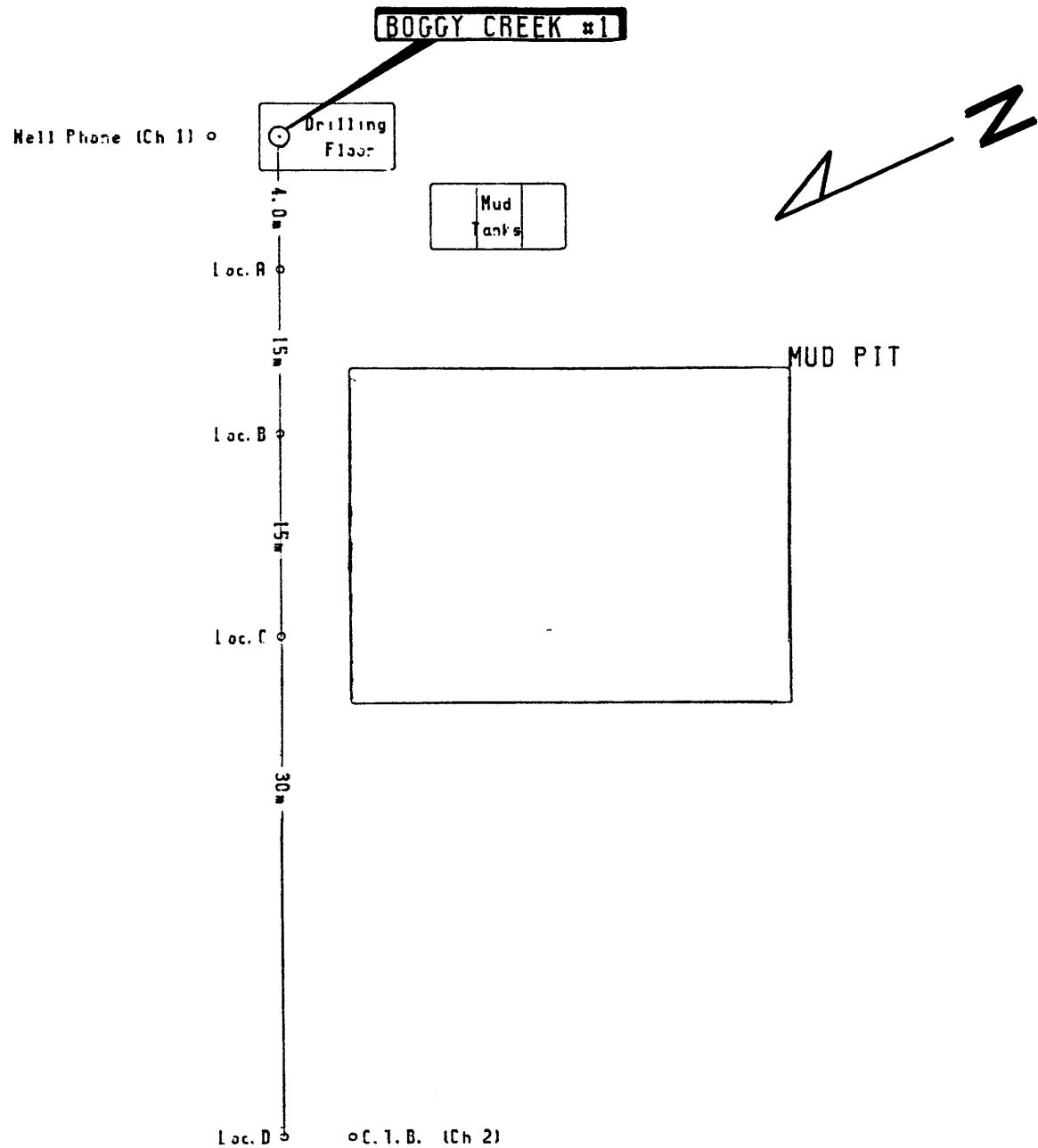
BOGGY CREEK No 1
GAS AND FUEL EXPLORATION N.L.

WELL LOCATION MAP

Scale 1:1000 000



Figure 1



BOGGY CREEK #1

GAS AND FUEL EXPLORATION
SHOT POINT LOCATION SKETCH



Figure 2

SUMMARY

Velocity Data Pty. Ltd. conducted a velocity survey for Gas and Fuel Exploration N/L in the Boggy Creek No 1 well, PEP 104 Victoria. The date of the survey was the 5th January 1992.

The results of the survey, which are considered to be reliable, have been used to calibrate the sonic log.

Explosives were used as an energy source with shots being fired in the flair pit.

GENERAL INFORMATION

| | | |
|-----------------------|---|---|
| Name of Well | : | Boggy Creek #1 |
| Location (Figure 1) | : | PEP 104, Victoria |
| Coordinates | : | Latitude 038 31' 34.1" Longitude 142 49' 28.1" |
| Date of Survey | : | January 5th, 1992 |
| Wireline Logging | : | Gearhart BPB |
| Weather | : | Fine, Calm |
| Operational Base | : | Brisbane |
| Operator | : | H. Hunt |
| Shooter | : | J. Brown |
| Client Representative | : | Mr A. Tabassi |

EQUIPMENT**Downhole Tool**

Veldata Camlock 100 (90 mm)

Sensors:

6 HSI 4.5 Hz 215 ohm, high temperature (300 degrees Fahrenheit) detectors connected in series parallel. Frequency response 8-300 Hz within 3db.

Preamplifier:

48 dB fixed gain.

Frequency response 5-200 Hz within 3 dB.

Reference Geophone

Mark Products L1 4.5 Hz

Recording Instrument

VDLS 11/10 software controlled digital recording system utilising SIE OPA-10 floating point amplifiers for digital recording and SIE OPA-4 amplifiers for analog presentation. The system includes a DEC LSI-11 CPU, twin cassette tape unit and printer.

RECORDING

| | | |
|---------------------|---|---------------------|
| Energy Source | : | Explosive, AN-60 |
| Shot Location | : | Flair pit |
| Charge Size | : | .25 / 2 stick(125g) |
| Average Shot Depth | : | 4.0 metres |
| Average Shot Offset | : | 60.0 metres |
| Recording Geometry | : | Figure 2 |

Shots were recorded on digital cassette tape. Printouts of the shots used are included with this report. (Enclosure 2)

The sample rate was 1 ms with 0.5 ms sampling over a 200ms window encompassing the first arrivals. The scale of the graphic display varies with signal strength and is noted on each playout.

The times were picked from the printouts using the numerical value of the signal strength. (Enclosure 2)

PROCESSING**Elevation Data**

| | | |
|----------------------------|---|---------------------------------|
| Elevation of KB | : | 34.9 metres ASL |
| Elevation of Ground | : | 30.0 metres ASL |
| Elevation of Seismic Datum | : | 0.0 metres ASL |
| Depth Surveyed | : | 1880.0 metres below KB |
| Total Depth | : | 1900.0 metres below KB |
| Depth of Casing | : | 320.0 metres below KB |
| Sonic Log Interval | : | 320.1 to 1884.6 metres below KB |

PROCESSING**Recorded Data**

| | | |
|---------------------------|---|-----------|
| Number of Shots Used | : | 26 |
| Number of Levels Recorded | : | 22 |
| Data Quality | : | Excellent |
| Noise Level | : | Low |

Correction for Instrument Delay and Shot Offset

The 'corrected' times shown on the calculation sheet have been obtained by:

- (i) Subtraction of the instrument delay (4msecs) from the recorded arrival times.
- (ii) geometric correction for non-vertically of ray paths resulting from shot offset.
- (iii) shot static correction to correct for the depth of shot below ground level at the well head using a correction velocity of 775 metres/sec.
- (iv) readdition of the instrument delay (4msecs)

Correction to Datum

The datum selected was 0 metres above sea level. This level was shot five times during the survey of which four have been used to calculate an effective datum correction of 22.8 msecs.

Please note that this value includes a 4 msecs instrumentation delay.

PROCESSING**Calibration of Sonic Log - Method**

Sonic times were adjusted to checkshot times using polynomial derived least squares fit correction of the sonic transient times.

These differences arise as the sonic tool measures the local velocity characteristics of the formation with a high frequency signal, whereas the downhole geophone records the bulk velocity character using a signal of significantly lower frequency.

Calibration of Sonic Log - Results (Enclosure 1)

The discrepancies between shot and sonic interval velocities were large towards the top portion of the hole. It was therefore considered necessary to eliminate the sonic between the intervals 320.1 and 538.1 metres. The checkshot and sonic were then re-calibrated and a maximum adjustment of 66.67 μ sec/metre, in the interval 540.0 to 570.0 metres below KB considered acceptable.

In aggregate, the shot and sonic interval times differed by 2.2 msecs over the logged portion of the well

PROCESSING

Trace Playouts (Figure 4)

Figure 4A is a plot of all traces used. No filter or gain recovery has been applied.

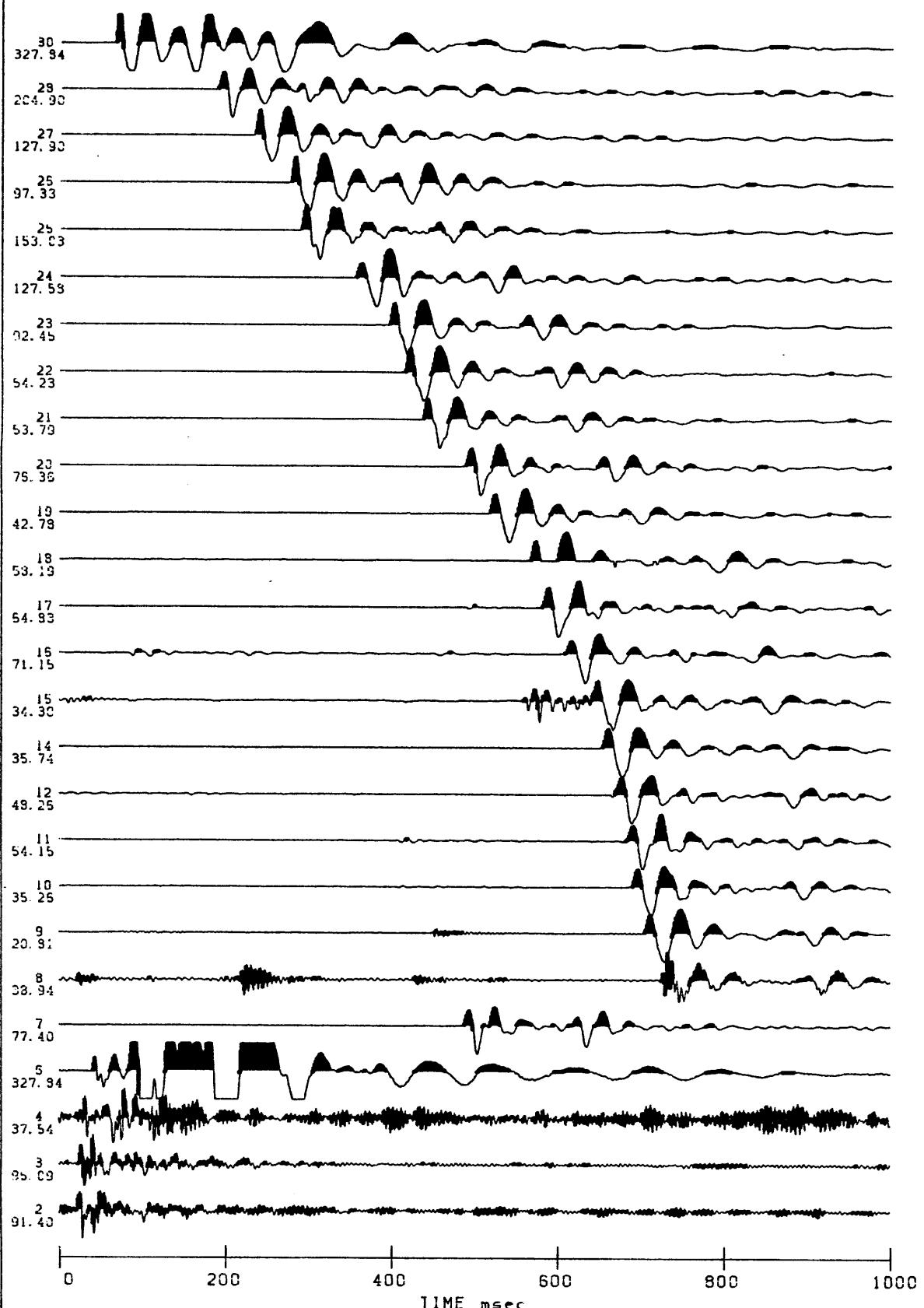
Figure 4B is a plot to scale in depth and time of selected traces. No filter or gain recovery has been applied.

Figure 4C is a plot to scale in depth and time of selected traces with a 5 Hz - 40 Hz filter and a gain recovery function of t^2 applied.

Figure 4D is a plot of selected surface traces. No filter or gain recovery has been applied.



**Troy Peters
Geophysical Analyst.**

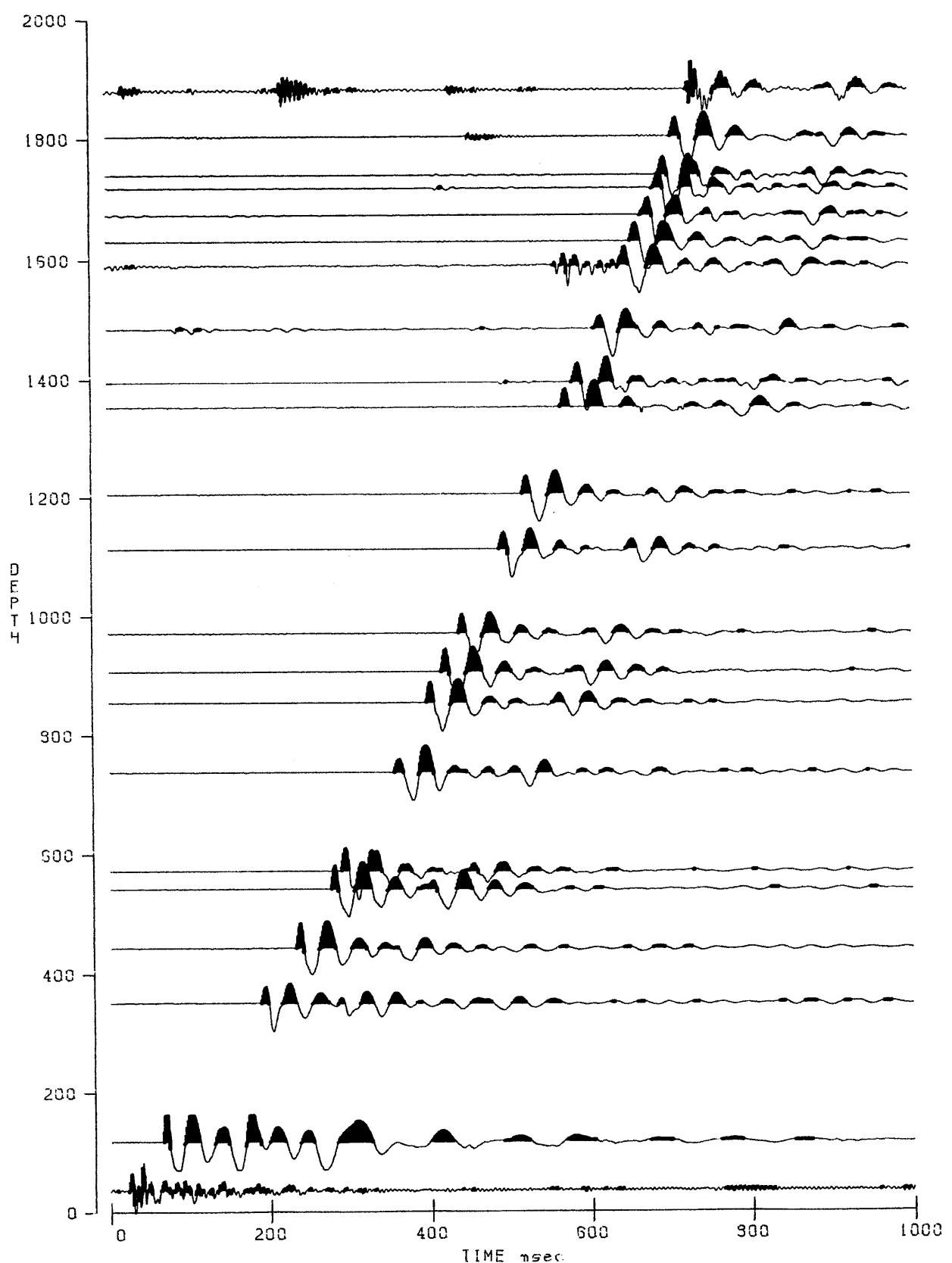


BOGGY CREEK #1

VELOCITY SURVEY TRACE DISPLAY
Filter OUT-OUT
No gain recovery



Figure 4A



BOGGY CREEK #1

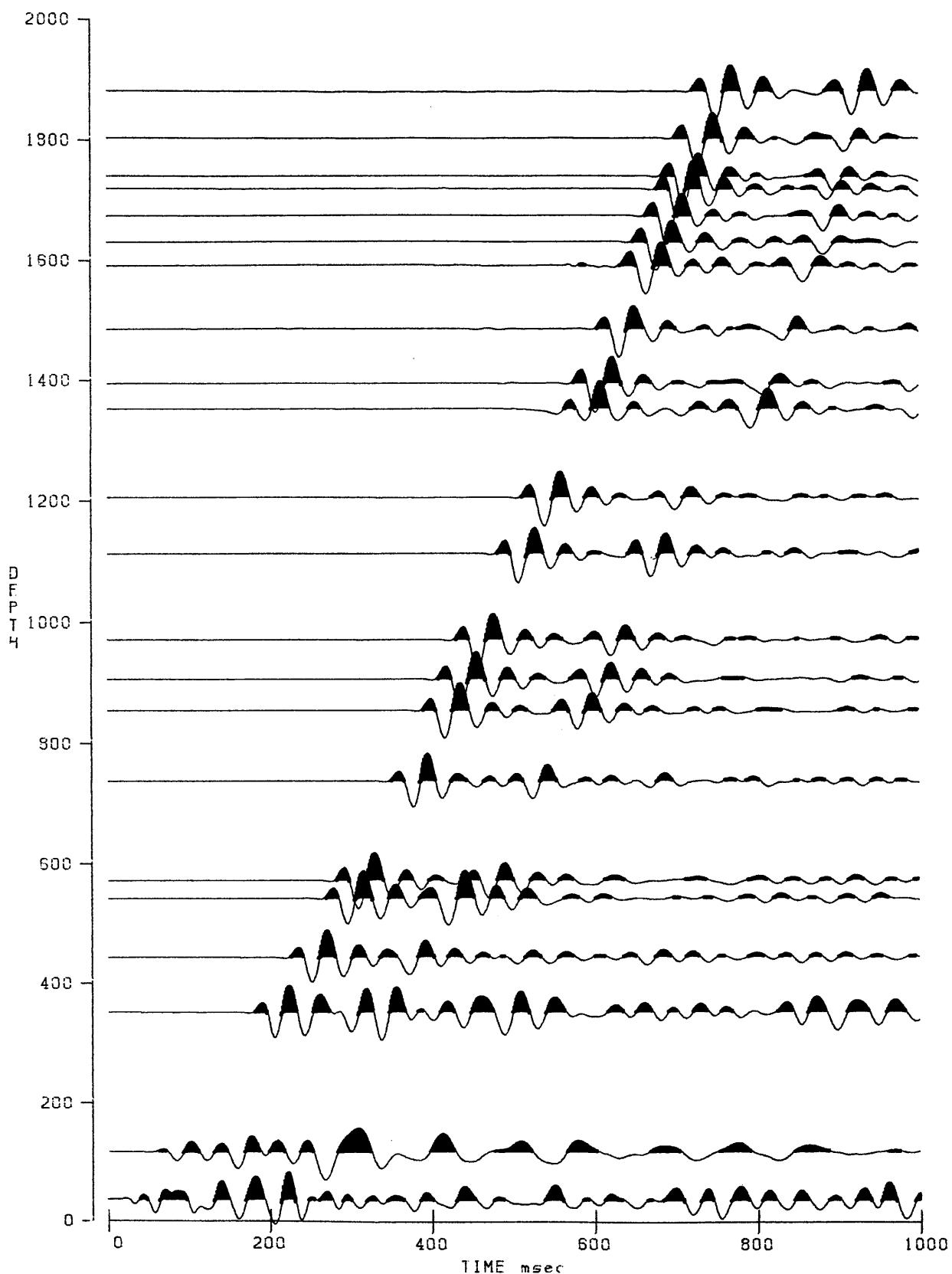
VELOCITY SURVEY TRACE DISPLAY

Filter OUT-OUT

No gain recovery



Figure 4B



BOGGY CREEK #1

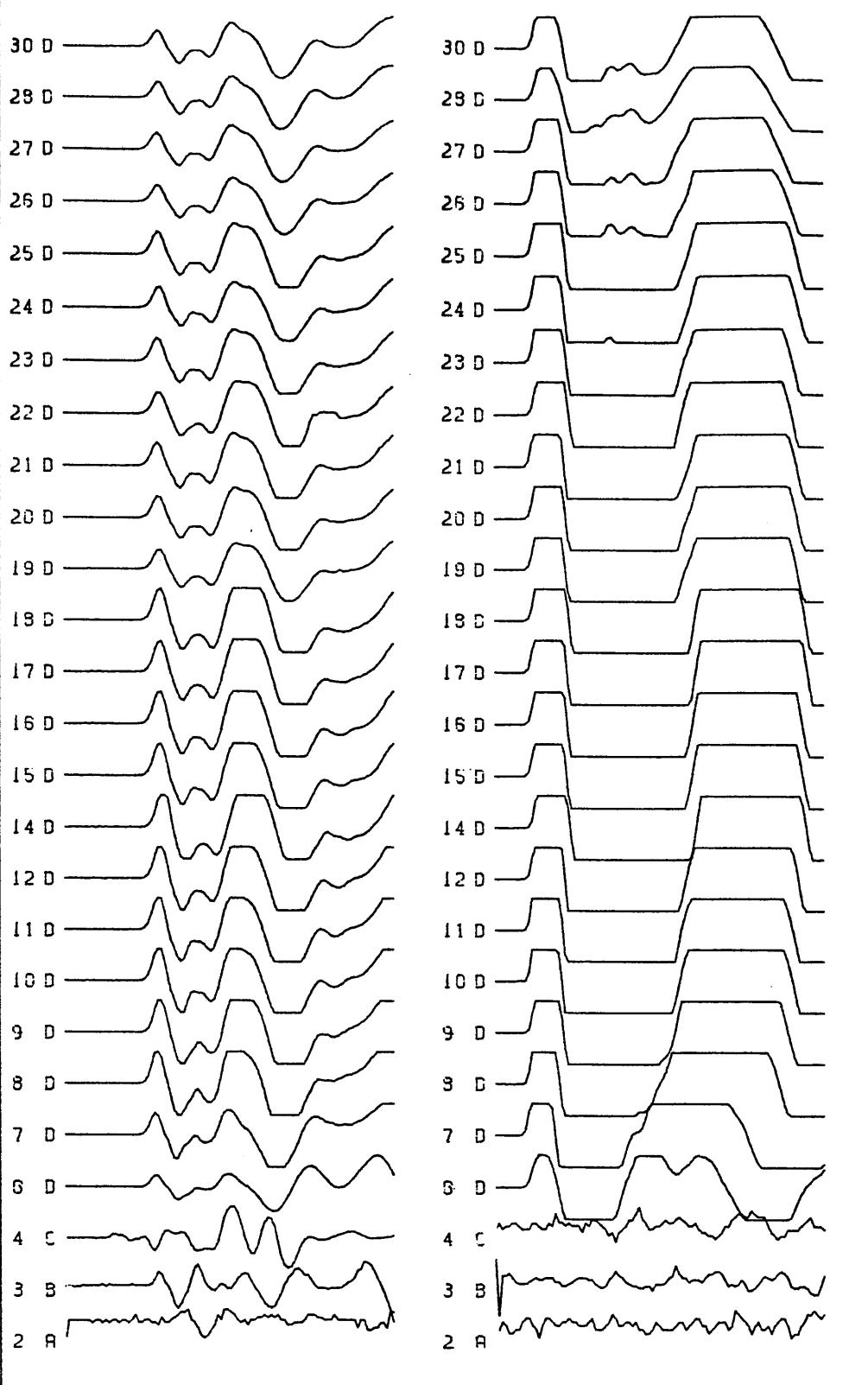
VELOCITY SURVEY TRACE DISPLAY

Filter 5-40

Gain $T^{2.0}$



Figure 4C



0 20 40 60 80 100
TIME nsec
Channel 2 0 20 40 60 80 100
TIME nsec
Channel 3

BOGGY CREEK #1

VELOCITY SURVEY TRACE DISPLAY

Auxiliary channels

Filter OUT-OUT



Figure 4D

TABLE 1.

Time-Depth curve values

Page 1.

Well : BOGGY1 CREEK #1

Client : GAS AND FUEL EXPLORATION N.L.

Survey units : METRES

Datum : 0.0

Calibrated sonic interval velocities used from 507.5 to 1845.0

| Datum | One-way | -----VELOCITIES----- | | | Datum | One-way | -----VELOCITIES----- | | |
|-------|----------|----------------------|------|----------|-------|----------|----------------------|------|----------|
| Depth | time(ms) | Average | RMS | Interval | Depth | time(ms) | Average | RMS | Interval |
| 2.5 | 1.3 | 1963 | 1963 | 1963 | 102.5 | 53.2 | 1927 | 1927 | 1857 |
| 5.0 | 2.6 | 1961 | 1961 | 1958 | 105.0 | 54.5 | 1925 | 1925 | 1856 |
| 7.5 | 3.8 | 1958 | 1958 | 1954 | 107.5 | 55.9 | 1923 | 1924 | 1856 |
| 10.0 | 5.1 | 1957 | 1957 | 1951 | 110.0 | 57.2 | 1922 | 1922 | 1856 |
| 12.5 | 6.4 | 1955 | 1955 | 1950 | 112.5 | 58.6 | 1920 | 1921 | 1856 |
| 15.0 | 7.7 | 1954 | 1954 | 1948 | 115.0 | 59.9 | 1919 | 1919 | 1855 |
| 17.5 | 9.0 | 1953 | 1953 | 1948 | 117.5 | 61.3 | 1917 | 1918 | 1855 |
| 20.0 | 10.2 | 1952 | 1952 | 1947 | 120.0 | 62.6 | 1916 | 1916 | 1855 |
| 22.5 | 11.5 | 1952 | 1952 | 1947 | 122.5 | 64.0 | 1915 | 1915 | 1855 |
| 25.0 | 12.8 | 1951 | 1951 | 1947 | 125.0 | 65.3 | 1914 | 1914 | 1855 |
| 27.5 | 14.1 | 1951 | 1951 | 1947 | 127.5 | 66.7 | 1912 | 1913 | 1855 |
| 30.0 | 15.4 | 1950 | 1950 | 1946 | 130.0 | 68.0 | 1911 | 1912 | 1855 |
| 32.5 | 16.7 | 1950 | 1950 | 1946 | 132.5 | 69.4 | 1910 | 1911 | 1855 |
| 35.0 | 17.9 | 1950 | 1950 | 1946 | 135.0 | 70.7 | 1909 | 1910 | 1855 |
| 37.5 | 19.2 | 1950 | 1950 | 1946 | 137.5 | 72.1 | 1908 | 1909 | 1855 |
| 40.0 | 20.5 | 1949 | 1949 | 1946 | 140.0 | 73.4 | 1907 | 1908 | 1855 |
| 42.5 | 21.8 | 1949 | 1949 | 1946 | 142.5 | 74.8 | 1906 | 1907 | 1855 |
| 45.0 | 23.1 | 1949 | 1949 | 1946 | 145.0 | 76.1 | 1905 | 1906 | 1855 |
| 47.5 | 24.4 | 1949 | 1949 | 1946 | 147.5 | 77.5 | 1904 | 1905 | 1855 |
| 50.0 | 25.7 | 1949 | 1949 | 1946 | 150.0 | 78.8 | 1904 | 1904 | 1855 |
| 52.5 | 26.9 | 1949 | 1949 | 1946 | 152.5 | 80.1 | 1903 | 1903 | 1855 |
| 55.0 | 28.2 | 1948 | 1948 | 1946 | 155.0 | 81.5 | 1902 | 1902 | 1855 |
| 57.5 | 29.5 | 1948 | 1948 | 1945 | 157.5 | 82.8 | 1901 | 1902 | 1855 |
| 60.0 | 30.8 | 1948 | 1948 | 1945 | 160.0 | 84.2 | 1900 | 1901 | 1855 |
| 62.5 | 32.1 | 1948 | 1948 | 1944 | 162.5 | 85.5 | 1900 | 1900 | 1855 |
| 65.0 | 33.4 | 1948 | 1948 | 1943 | 165.0 | 86.9 | 1899 | 1900 | 1855 |
| 67.5 | 34.7 | 1948 | 1948 | 1941 | 167.5 | 88.2 | 1898 | 1899 | 1855 |
| 70.0 | 35.9 | 1947 | 1947 | 1939 | 170.0 | 89.6 | 1898 | 1898 | 1855 |
| 72.5 | 37.2 | 1947 | 1947 | 1935 | 172.5 | 90.9 | 1897 | 1898 | 1855 |
| 75.0 | 38.5 | 1946 | 1946 | 1929 | 175.0 | 92.3 | 1897 | 1897 | 1855 |
| 77.5 | 39.8 | 1945 | 1945 | 1921 | 177.5 | 93.6 | 1896 | 1896 | 1855 |
| 80.0 | 41.1 | 1944 | 1944 | 1908 | 180.0 | 95.0 | 1895 | 1896 | 1855 |
| 82.5 | 42.5 | 1943 | 1943 | 1892 | 182.5 | 96.3 | 1895 | 1895 | 1855 |
| 85.0 | 43.8 | 1941 | 1941 | 1880 | 185.0 | 97.7 | 1894 | 1895 | 1855 |
| 87.5 | 45.1 | 1939 | 1939 | 1871 | 187.5 | 99.0 | 1894 | 1894 | 1855 |
| 90.0 | 46.5 | 1937 | 1937 | 1866 | 190.0 | 100.4 | 1893 | 1894 | 1855 |
| 92.5 | 47.8 | 1934 | 1935 | 1862 | 192.5 | 101.7 | 1893 | 1893 | 1855 |
| 95.0 | 49.2 | 1932 | 1933 | 1860 | 195.0 | 103.1 | 1892 | 1893 | 1855 |
| 97.5 | 50.5 | 1930 | 1931 | 1858 | 197.5 | 104.4 | 1892 | 1892 | 1855 |
| 100.0 | 51.9 | 1929 | 1929 | 1857 | 200.0 | 105.7 | 1891 | 1892 | 1855 |

TABLE 1.

Time-Depth curve values

Page 2.

Well : BOGGY CREEK #1

Survey units : METRES

Calibrated sonic interval velocities used from 507.5 to 1845.0

Client : GAS AND FUEL EXPLORATION N.L.

Datum : 0.0

| Datum | One-way | -----VELOCITIES----- | | | Datum | One-way | -----VELOCITIES----- | | |
|-------|----------|----------------------|------|----------|-------|----------|----------------------|------|----------|
| Depth | time(ms) | Average | RMS | Interval | Depth | time(ms) | Average | RMS | Interval |
| 202.5 | 107.1 | 1891 | 1891 | 1855 | 302.5 | 161.0 | 1879 | 1880 | 1866 |
| 205.0 | 108.4 | 1890 | 1891 | 1855 | 305.0 | 162.3 | 1879 | 1880 | 1871 |
| 207.5 | 109.8 | 1890 | 1890 | 1855 | 307.5 | 163.6 | 1879 | 1880 | 1879 |
| 210.0 | 111.1 | 1890 | 1890 | 1855 | 310.0 | 165.0 | 1879 | 1880 | 1891 |
| 212.5 | 112.5 | 1889 | 1890 | 1855 | 312.5 | 166.3 | 1879 | 1880 | 1910 |
| 215.0 | 113.8 | 1889 | 1889 | 1855 | 315.0 | 167.6 | 1880 | 1880 | 1938 |
| 217.5 | 115.2 | 1888 | 1889 | 1855 | 317.5 | 168.8 | 1881 | 1881 | 1970 |
| 220.0 | 116.5 | 1888 | 1888 | 1855 | 320.0 | 170.1 | 1881 | 1882 | 1993 |
| 222.5 | 117.9 | 1888 | 1888 | 1855 | 322.5 | 171.3 | 1882 | 1883 | 2008 |
| 225.0 | 119.2 | 1887 | 1888 | 1855 | 325.0 | 172.6 | 1883 | 1884 | 2018 |
| 227.5 | 120.6 | 1887 | 1887 | 1855 | 327.5 | 173.8 | 1884 | 1885 | 2025 |
| 230.0 | 121.9 | 1886 | 1887 | 1855 | 330.0 | 175.0 | 1885 | 1886 | 2030 |
| 232.5 | 123.3 | 1886 | 1887 | 1855 | 332.5 | 176.3 | 1886 | 1887 | 2033 |
| 235.0 | 124.6 | 1886 | 1886 | 1855 | 335.0 | 177.5 | 1887 | 1888 | 2035 |
| 237.5 | 126.0 | 1885 | 1886 | 1855 | 337.5 | 178.7 | 1888 | 1889 | 2036 |
| 240.0 | 127.3 | 1885 | 1886 | 1855 | 340.0 | 179.9 | 1889 | 1890 | 2037 |
| 242.5 | 128.7 | 1885 | 1885 | 1855 | 342.5 | 181.2 | 1890 | 1891 | 2038 |
| 245.0 | 130.0 | 1885 | 1885 | 1855 | 345.0 | 182.4 | 1891 | 1892 | 2038 |
| 247.5 | 131.4 | 1884 | 1885 | 1855 | 347.5 | 183.6 | 1892 | 1893 | 2039 |
| 250.0 | 132.7 | 1884 | 1884 | 1855 | 350.0 | 184.9 | 1893 | 1894 | 2039 |
| 252.5 | 134.0 | 1884 | 1884 | 1855 | 352.5 | 186.1 | 1894 | 1895 | 2039 |
| 255.0 | 135.4 | 1883 | 1884 | 1855 | 355.0 | 187.3 | 1895 | 1896 | 2039 |
| 257.5 | 136.7 | 1883 | 1884 | 1855 | 357.5 | 188.5 | 1896 | 1897 | 2039 |
| 260.0 | 138.1 | 1883 | 1883 | 1855 | 360.0 | 189.8 | 1897 | 1898 | 2039 |
| 262.5 | 139.4 | 1883 | 1883 | 1855 | 362.5 | 191.0 | 1898 | 1899 | 2039 |
| 265.0 | 140.8 | 1882 | 1883 | 1855 | 365.0 | 192.2 | 1899 | 1900 | 2039 |
| 267.5 | 142.1 | 1882 | 1882 | 1855 | 367.5 | 193.4 | 1900 | 1901 | 2039 |
| 270.0 | 143.5 | 1882 | 1882 | 1855 | 370.0 | 194.7 | 1901 | 1902 | 2039 |
| 272.5 | 144.8 | 1882 | 1882 | 1855 | 372.5 | 195.9 | 1902 | 1903 | 2040 |
| 275.0 | 146.2 | 1881 | 1882 | 1855 | 375.0 | 197.1 | 1902 | 1904 | 2040 |
| 277.5 | 147.5 | 1881 | 1882 | 1855 | 377.5 | 198.3 | 1903 | 1904 | 2040 |
| 280.0 | 148.9 | 1881 | 1881 | 1856 | 380.0 | 199.6 | 1904 | 1905 | 2041 |
| 282.5 | 150.2 | 1881 | 1881 | 1856 | 382.5 | 200.8 | 1905 | 1906 | 2041 |
| 285.0 | 151.6 | 1880 | 1881 | 1856 | 385.0 | 202.0 | 1906 | 1907 | 2042 |
| 287.5 | 152.9 | 1880 | 1881 | 1856 | 387.5 | 203.2 | 1907 | 1908 | 2044 |
| 290.0 | 154.3 | 1880 | 1880 | 1857 | 390.0 | 204.5 | 1907 | 1909 | 2046 |
| 292.5 | 155.6 | 1880 | 1880 | 1857 | 392.5 | 205.7 | 1908 | 1910 | 2049 |
| 295.0 | 156.9 | 1880 | 1880 | 1858 | 395.0 | 206.9 | 1909 | 1910 | 2054 |
| 297.5 | 158.3 | 1879 | 1880 | 1860 | 397.5 | 208.1 | 1910 | 1911 | 2062 |
| 300.0 | 159.6 | 1879 | 1880 | 1862 | 400.0 | 209.3 | 1911 | 1912 | 2074 |

TABLE 1.

Time-Depth curve values

Page 3.

Well : BOGGYI CREEK #1

Client : GAS AND FUEL EXPLORATION N.L.

Survey units : METRES

Datum : 0.0

Calibrated sonic interval velocities used from 507.5 to 1845.0

| Datum | One-way | -----VELOCITIES----- | | | Datum | One-way | -----VELOCITIES----- | | |
|-------|----------|----------------------|------|----------|-------|----------|----------------------|------|----------|
| Depth | time(ms) | Average | RMS | Interval | Depth | time(ms) | Average | RMS | Interval |
| 402.5 | 210.5 | 1912 | 1913 | 2091 | 502.5 | 254.5 | 1975 | 1981 | 2307 |
| 405.0 | 211.7 | 1913 | 1915 | 2118 | 505.0 | 255.6 | 1976 | 1982 | 2316 |
| 407.5 | 212.8 | 1915 | 1916 | 2159 | 507.5 | 255.7 | 1985 | 1982 | 2329 |
| 410.0 | 214.0 | 1916 | 1918 | 2200 | 510.0 | 256.6 | 1988 | 1986 | 2915 |
| 412.5 | 215.1 | 1918 | 1919 | 2228 | 512.5 | 257.4 | 1991 | 1990 | 2941 |
| 415.0 | 216.2 | 1919 | 1921 | 2248 | 515.0 | 258.4 | 1993 | 1993 | 2663 |
| 417.5 | 217.3 | 1921 | 1923 | 2261 | 517.5 | 259.3 | 1996 | 1996 | 2644 |
| 420.0 | 218.4 | 1923 | 1925 | 2270 | 520.0 | 260.3 | 1998 | 1998 | 2494 |
| 422.5 | 219.5 | 1925 | 1927 | 2276 | 522.5 | 261.6 | 1997 | 1997 | 1873 |
| 425.0 | 220.6 | 1926 | 1929 | 2280 | 525.0 | 263.1 | 1995 | 1995 | 1663 |
| 427.5 | 221.7 | 1928 | 1931 | 2282 | 527.5 | 264.5 | 1994 | 1995 | 1852 |
| 430.0 | 222.8 | 1930 | 1933 | 2284 | 530.0 | 266.1 | 1992 | 1992 | 1535 |
| 432.5 | 223.9 | 1932 | 1935 | 2285 | 532.5 | 267.8 | 1989 | 1990 | 1540 |
| 435.0 | 225.0 | 1933 | 1936 | 2286 | 535.0 | 269.3 | 1986 | 1988 | 1567 |
| 437.5 | 226.1 | 1935 | 1938 | 2286 | 537.5 | 270.7 | 1986 | 1987 | 1903 |
| 440.0 | 227.2 | 1937 | 1940 | 2287 | 540.0 | 271.6 | 1988 | 1990 | 2649 |
| 442.5 | 228.3 | 1938 | 1942 | 2287 | 542.5 | 272.5 | 1991 | 1993 | 2906 |
| 445.0 | 229.4 | 1940 | 1944 | 2287 | 545.0 | 273.5 | 1993 | 1995 | 2464 |
| 447.5 | 230.5 | 1942 | 1945 | 2287 | 547.5 | 274.2 | 1996 | 2000 | 3254 |
| 450.0 | 231.6 | 1943 | 1947 | 2287 | 550.0 | 275.1 | 1999 | 2003 | 2880 |
| 452.5 | 232.6 | 1945 | 1949 | 2287 | 552.5 | 276.0 | 2002 | 2007 | 2900 |
| 455.0 | 233.7 | 1947 | 1951 | 2288 | 555.0 | 276.9 | 2004 | 2009 | 2670 |
| 457.5 | 234.8 | 1948 | 1952 | 2288 | 557.5 | 277.9 | 2006 | 2012 | 2550 |
| 460.0 | 235.9 | 1950 | 1954 | 2288 | 560.0 | 279.1 | 2006 | 2012 | 2018 |
| 462.5 | 237.0 | 1951 | 1956 | 2288 | 562.5 | 280.5 | 2006 | 2011 | 1884 |
| 465.0 | 238.1 | 1953 | 1957 | 2288 | 565.0 | 281.5 | 2007 | 2012 | 2308 |
| 467.5 | 239.2 | 1954 | 1959 | 2288 | 567.5 | 282.5 | 2009 | 2014 | 2557 |
| 470.0 | 240.3 | 1956 | 1961 | 2288 | 570.0 | 283.6 | 2010 | 2015 | 2219 |
| 472.5 | 241.4 | 1957 | 1962 | 2288 | 572.5 | 284.7 | 2011 | 2017 | 2455 |
| 475.0 | 242.5 | 1959 | 1964 | 2288 | 575.0 | 285.5 | 2014 | 2021 | 3061 |
| 477.5 | 243.6 | 1960 | 1965 | 2288 | 577.5 | 286.5 | 2016 | 2022 | 2456 |
| 480.0 | 244.7 | 1962 | 1967 | 2288 | 580.0 | 287.4 | 2018 | 2025 | 2813 |
| 482.5 | 245.8 | 1963 | 1968 | 2288 | 582.5 | 288.3 | 2021 | 2028 | 2802 |
| 485.0 | 246.9 | 1965 | 1970 | 2289 | 585.0 | 289.2 | 2023 | 2031 | 2721 |
| 487.5 | 247.9 | 1966 | 1972 | 2289 | 587.5 | 290.2 | 2025 | 2033 | 2522 |
| 490.0 | 249.0 | 1968 | 1973 | 2290 | 590.0 | 291.3 | 2026 | 2034 | 2357 |
| 492.5 | 250.1 | 1969 | 1975 | 2291 | 592.5 | 292.3 | 2027 | 2036 | 2460 |
| 495.0 | 251.2 | 1970 | 1976 | 2293 | 595.0 | 293.3 | 2029 | 2037 | 2412 |
| 497.5 | 252.3 | 1972 | 1978 | 2296 | 597.5 | 294.4 | 2029 | 2038 | 2189 |
| 500.0 | 253.4 | 1973 | 1979 | 2300 | 600.0 | 295.5 | 2030 | 2039 | 2336 |

TABLE 1.

Time-Depth curve values

Page 4.

Well : BOGGY1 CREEK #1

Client : GAS AND FUEL EXPLORATION N.L.

Survey units : METRES

Datum : 0.0

Calibrated sonic interval velocities used from 507.5 to 1845.0

| Datum | One-way | -----VELOCITIES----- | | | Datum | One-way | -----VELOCITIES----- | | |
|-------|----------|----------------------|------|----------|-------|----------|----------------------|------|----------|
| Depth | time(ms) | Average | RMS | Interval | Depth | time(ms) | Average | RMS | Interval |
| 602.5 | 296.5 | 2032 | 2041 | 2482 | 702.5 | 336.0 | 2091 | 2105 | 2887 |
| 605.0 | 297.8 | 2031 | 2040 | 1912 | 705.0 | 336.9 | 2093 | 2108 | 2937 |
| 607.5 | 298.9 | 2033 | 2041 | 2360 | 707.5 | 337.8 | 2095 | 2110 | 2805 |
| 610.0 | 299.8 | 2035 | 2044 | 2702 | 710.0 | 338.7 | 2096 | 2112 | 2666 |
| 612.5 | 300.8 | 2036 | 2045 | 2478 | 712.5 | 339.7 | 2098 | 2113 | 2594 |
| 615.0 | 301.8 | 2038 | 2047 | 2516 | 715.0 | 340.6 | 2099 | 2115 | 2653 |
| 617.5 | 302.8 | 2040 | 2049 | 2681 | 717.5 | 341.6 | 2101 | 2117 | 2623 |
| 620.0 | 303.7 | 2042 | 2052 | 2776 | 720.0 | 342.5 | 2102 | 2118 | 2584 |
| 622.5 | 304.6 | 2044 | 2054 | 2636 | 722.5 | 343.4 | 2104 | 2120 | 2940 |
| 625.0 | 305.5 | 2046 | 2056 | 2650 | 725.0 | 344.2 | 2106 | 2123 | 3012 |
| 627.5 | 306.5 | 2047 | 2059 | 2556 | 727.5 | 345.0 | 2108 | 2126 | 3027 |
| 630.0 | 307.5 | 2049 | 2059 | 2553 | 730.0 | 345.9 | 2110 | 2128 | 2879 |
| 632.5 | 308.5 | 2050 | 2061 | 2565 | 732.5 | 346.8 | 2112 | 2130 | 2727 |
| 635.0 | 309.6 | 2051 | 2062 | 2197 | 735.0 | 347.7 | 2114 | 2132 | 2832 |
| 637.5 | 310.7 | 2052 | 2062 | 2220 | 737.5 | 348.7 | 2115 | 2133 | 2642 |
| 640.0 | 311.7 | 2053 | 2064 | 2489 | 740.0 | 349.6 | 2117 | 2135 | 2734 |
| 642.5 | 312.7 | 2055 | 2066 | 2589 | 742.5 | 350.5 | 2119 | 2137 | 2767 |
| 645.0 | 313.6 | 2057 | 2068 | 2781 | 745.0 | 351.3 | 2121 | 2140 | 3108 |
| 647.5 | 314.6 | 2058 | 2070 | 2572 | 747.5 | 352.2 | 2122 | 2141 | 2641 |
| 650.0 | 315.6 | 2060 | 2072 | 2578 | 750.0 | 353.2 | 2124 | 2143 | 2670 |
| 652.5 | 316.6 | 2061 | 2073 | 2455 | 752.5 | 354.1 | 2125 | 2144 | 2587 |
| 655.0 | 317.7 | 2062 | 2074 | 2242 | 755.0 | 355.1 | 2126 | 2145 | 2570 |
| 657.5 | 318.7 | 2063 | 2075 | 2535 | 757.5 | 356.0 | 2128 | 2147 | 2813 |
| 660.0 | 319.7 | 2065 | 2077 | 2552 | 760.0 | 356.9 | 2130 | 2149 | 2773 |
| 662.5 | 320.7 | 2066 | 2078 | 2465 | 762.5 | 357.8 | 2131 | 2151 | 2859 |
| 665.0 | 321.7 | 2067 | 2079 | 2355 | 765.0 | 358.6 | 2133 | 2154 | 3014 |
| 667.5 | 322.7 | 2068 | 2080 | 2487 | 767.5 | 359.4 | 2136 | 2156 | 3127 |
| 670.0 | 323.7 | 2070 | 2082 | 2599 | 770.0 | 360.3 | 2137 | 2158 | 2849 |
| 672.5 | 324.7 | 2071 | 2084 | 2499 | 772.5 | 361.1 | 2139 | 2160 | 2846 |
| 675.0 | 325.7 | 2072 | 2085 | 2373 | 775.0 | 362.0 | 2141 | 2162 | 2986 |
| 677.5 | 326.7 | 2074 | 2086 | 2597 | 777.5 | 362.9 | 2143 | 2164 | 2797 |
| 680.0 | 327.6 | 2075 | 2088 | 2672 | 780.0 | 363.8 | 2144 | 2166 | 2642 |
| 682.5 | 328.6 | 2077 | 2090 | 2625 | 782.5 | 364.6 | 2146 | 2168 | 3073 |
| 685.0 | 329.5 | 2079 | 2092 | 2655 | 785.0 | 365.5 | 2148 | 2170 | 2833 |
| 687.5 | 330.5 | 2080 | 2093 | 2559 | 787.5 | 366.4 | 2149 | 2171 | 2731 |
| 690.0 | 331.5 | 2081 | 2095 | 2557 | 790.0 | 367.3 | 2151 | 2173 | 2761 |
| 692.5 | 332.5 | 2083 | 2096 | 2463 | 792.5 | 368.2 | 2152 | 2175 | 2879 |
| 695.0 | 333.5 | 2084 | 2098 | 2603 | 795.0 | 369.1 | 2154 | 2177 | 2861 |
| 697.5 | 334.4 | 2086 | 2100 | 2714 | 797.5 | 369.9 | 2156 | 2179 | 2935 |
| 700.0 | 335.2 | 2087 | 2103 | 3246 | 800.0 | 370.8 | 2158 | 2181 | 2998 |

TABLE 1.

Time-Depth curve values

Page 5.

Well : BOGGY1 CREEK #1

Client : GAS AND FUEL EXPLORATION N.L.

Survey units : METRES

Datum : 0.0

Calibrated sonic interval velocities used from 507.5 to 1845.0

| Datum | One-way | -----VELOCITIES----- | | | Datum | One-way | -----VELOCITIES----- | | |
|-------|----------|----------------------|------|----------|--------|----------|----------------------|------|----------|
| Depth | time(ms) | Average | RMS | Interval | Depth | time(ms) | Average | RMS | Interval |
| 802.5 | 371.6 | 2159 | 2183 | 2859 | 902.5 | 407.1 | 2217 | 2247 | 3175 |
| 805.0 | 372.5 | 2161 | 2185 | 2938 | 905.0 | 407.9 | 2219 | 2249 | 3217 |
| 807.5 | 373.4 | 2163 | 2187 | 2906 | 907.5 | 408.6 | 2221 | 2251 | 3218 |
| 810.0 | 374.2 | 2165 | 2189 | 2895 | 910.0 | 409.4 | 2223 | 2254 | 3302 |
| 812.5 | 375.1 | 2166 | 2191 | 2802 | 912.5 | 410.2 | 2225 | 2256 | 3152 |
| 815.0 | 376.0 | 2168 | 2192 | 2888 | 915.0 | 411.0 | 2226 | 2258 | 3068 |
| 817.5 | 376.8 | 2169 | 2194 | 2938 | 917.5 | 411.8 | 2228 | 2260 | 2965 |
| 820.0 | 377.7 | 2171 | 2196 | 2831 | 920.0 | 412.7 | 2229 | 2261 | 2899 |
| 822.5 | 378.6 | 2172 | 2197 | 2676 | 922.5 | 413.6 | 2231 | 2263 | 2898 |
| 825.0 | 379.6 | 2173 | 2199 | 2686 | 925.0 | 414.4 | 2232 | 2264 | 2871 |
| 827.5 | 380.5 | 2175 | 2200 | 2576 | 927.5 | 415.3 | 2233 | 2266 | 2925 |
| 830.0 | 381.6 | 2175 | 2200 | 2408 | 930.0 | 416.1 | 2235 | 2267 | 3044 |
| 832.5 | 382.8 | 2175 | 2200 | 2075 | 932.5 | 416.9 | 2237 | 2269 | 3198 |
| 835.0 | 383.9 | 2175 | 2200 | 2309 | 935.0 | 417.7 | 2238 | 2271 | 3085 |
| 837.5 | 384.8 | 2176 | 2202 | 2657 | 937.5 | 418.5 | 2240 | 2273 | 2998 |
| 840.0 | 385.7 | 2178 | 2203 | 2919 | 940.0 | 419.3 | 2242 | 2275 | 3110 |
| 842.5 | 386.5 | 2180 | 2205 | 2917 | 942.5 | 420.2 | 2243 | 2276 | 2944 |
| 845.0 | 387.4 | 2181 | 2207 | 2855 | 945.0 | 421.1 | 2244 | 2278 | 2742 |
| 847.5 | 388.3 | 2183 | 2209 | 2907 | 947.5 | 422.0 | 2245 | 2279 | 2827 |
| 850.0 | 389.1 | 2185 | 2211 | 2972 | 950.0 | 422.9 | 2246 | 2280 | 2800 |
| 852.5 | 390.0 | 2186 | 2212 | 2842 | 952.5 | 423.7 | 2248 | 2282 | 2891 |
| 855.0 | 390.9 | 2187 | 2214 | 2747 | 955.0 | 424.6 | 2249 | 2283 | 2939 |
| 857.5 | 391.8 | 2189 | 2215 | 2835 | 957.5 | 425.4 | 2251 | 2285 | 3111 |
| 860.0 | 392.7 | 2190 | 2217 | 2787 | 960.0 | 426.2 | 2252 | 2287 | 3091 |
| 862.5 | 393.6 | 2191 | 2218 | 2619 | 962.5 | 427.1 | 2254 | 2288 | 2935 |
| 865.0 | 394.6 | 2192 | 2219 | 2674 | 965.0 | 427.9 | 2255 | 2290 | 3006 |
| 867.5 | 395.5 | 2194 | 2220 | 2702 | 967.5 | 428.8 | 2256 | 2291 | 2839 |
| 870.0 | 396.4 | 2195 | 2221 | 2699 | 970.0 | 429.9 | 2256 | 2291 | 2215 |
| 872.5 | 397.3 | 2196 | 2223 | 2980 | 972.5 | 431.0 | 2256 | 2291 | 2184 |
| 875.0 | 398.1 | 2198 | 2225 | 2918 | 975.0 | 432.0 | 2257 | 2291 | 2545 |
| 877.5 | 398.9 | 2200 | 2227 | 3051 | 977.5 | 433.0 | 2258 | 2292 | 2620 |
| 880.0 | 399.7 | 2202 | 2229 | 3193 | 980.0 | 433.9 | 2259 | 2293 | 2837 |
| 882.5 | 400.6 | 2203 | 2231 | 2957 | 982.5 | 434.7 | 2260 | 2295 | 2927 |
| 885.0 | 401.4 | 2205 | 2233 | 3100 | 985.0 | 435.6 | 2261 | 2296 | 2863 |
| 887.5 | 402.2 | 2207 | 2235 | 3062 | 987.5 | 436.5 | 2262 | 2297 | 2808 |
| 890.0 | 403.0 | 2208 | 2237 | 2978 | 990.0 | 437.4 | 2263 | 2298 | 2765 |
| 892.5 | 403.8 | 2210 | 2239 | 3202 | 992.5 | 438.3 | 2265 | 2299 | 2895 |
| 895.0 | 404.6 | 2212 | 2241 | 3105 | 995.0 | 439.1 | 2266 | 2301 | 3032 |
| 897.5 | 405.4 | 2214 | 2243 | 2972 | 997.5 | 440.0 | 2267 | 2302 | 2842 |
| 900.0 | 406.3 | 2215 | 2245 | 2944 | 1000.0 | 440.9 | 2268 | 2303 | 2673 |

TABLE 1.

Time-Depth curve values

Page 6.

Well : BOGGY CREEK #1

Client : GAS AND FUEL EXPLORATION N.L.

Survey units : METRES

Datum : 0.0

Calibrated sonic interval velocities used from 507.5 to 1945.0

| Datum | One-way | VELOCITIES | | | Datum | One-way | VELOCITIES | | |
|--------|----------|------------|------|----------|--------|----------|------------|------|----------|
| Depth | time(ms) | Average | RMS | Interval | Depth | time(ms) | Average | RMS | Interval |
| 1002.5 | 441.7 | 2269 | 2304 | 2918 | 1102.5 | 477.0 | 2311 | 2348 | 3063 |
| 1005.0 | 442.6 | 2271 | 2306 | 2882 | 1105.0 | 477.8 | 2313 | 2350 | 3069 |
| 1007.5 | 443.5 | 2272 | 2307 | 2808 | 1107.5 | 478.6 | 2314 | 2351 | 3110 |
| 1010.0 | 444.4 | 2273 | 2308 | 2805 | 1110.0 | 479.5 | 2315 | 2352 | 2842 |
| 1012.5 | 445.3 | 2274 | 2309 | 2794 | 1112.5 | 480.4 | 2316 | 2353 | 2803 |
| 1015.0 | 446.2 | 2275 | 2310 | 2776 | 1115.0 | 481.3 | 2317 | 2354 | 2837 |
| 1017.5 | 447.2 | 2275 | 2311 | 2570 | 1117.5 | 482.1 | 2318 | 2355 | 2829 |
| 1020.0 | 448.1 | 2276 | 2312 | 2707 | 1120.0 | 483.0 | 2319 | 2356 | 2800 |
| 1022.5 | 449.0 | 2277 | 2312 | 2608 | 1122.5 | 483.9 | 2320 | 2357 | 2835 |
| 1025.0 | 450.0 | 2278 | 2313 | 2709 | 1125.0 | 484.8 | 2320 | 2358 | 2684 |
| 1027.5 | 450.8 | 2279 | 2314 | 2900 | 1127.5 | 485.6 | 2322 | 2359 | 3115 |
| 1030.0 | 451.7 | 2280 | 2315 | 2770 | 1130.0 | 486.5 | 2323 | 2360 | 2947 |
| 1032.5 | 452.6 | 2281 | 2316 | 2778 | 1132.5 | 487.4 | 2324 | 2361 | 2815 |
| 1035.0 | 453.5 | 2282 | 2317 | 2776 | 1135.0 | 488.2 | 2325 | 2363 | 3034 |
| 1037.5 | 454.5 | 2283 | 2318 | 2666 | 1137.5 | 489.1 | 2326 | 2364 | 2954 |
| 1040.0 | 455.4 | 2284 | 2319 | 2608 | 1140.0 | 489.9 | 2327 | 2365 | 2870 |
| 1042.5 | 456.4 | 2284 | 2319 | 2621 | 1142.5 | 490.7 | 2328 | 2366 | 3090 |
| 1045.0 | 457.3 | 2285 | 2320 | 2644 | 1145.0 | 491.6 | 2329 | 2367 | 3050 |
| 1047.5 | 458.3 | 2286 | 2321 | 2661 | 1147.5 | 492.4 | 2331 | 2369 | 3095 |
| 1050.0 | 459.2 | 2287 | 2322 | 2795 | 1150.0 | 493.2 | 2332 | 2370 | 3110 |
| 1052.5 | 460.1 | 2288 | 2323 | 2749 | 1152.5 | 494.0 | 2333 | 2371 | 3001 |
| 1055.0 | 461.0 | 2289 | 2324 | 2719 | 1155.0 | 494.8 | 2334 | 2373 | 3037 |
| 1057.5 | 461.9 | 2289 | 2325 | 2745 | 1157.5 | 495.6 | 2335 | 2374 | 3078 |
| 1060.0 | 462.8 | 2290 | 2326 | 2743 | 1160.0 | 496.5 | 2337 | 2375 | 3046 |
| 1062.5 | 463.8 | 2291 | 2326 | 2671 | 1162.5 | 497.3 | 2338 | 2377 | 3121 |
| 1065.0 | 464.7 | 2292 | 2327 | 2764 | 1165.0 | 498.1 | 2339 | 2378 | 3085 |
| 1067.5 | 465.5 | 2293 | 2328 | 2799 | 1167.5 | 498.9 | 2340 | 2379 | 3046 |
| 1070.0 | 466.5 | 2294 | 2329 | 2725 | 1170.0 | 499.7 | 2342 | 2381 | 3276 |
| 1072.5 | 467.3 | 2295 | 2331 | 3030 | 1172.5 | 500.4 | 2343 | 2382 | 3194 |
| 1075.0 | 468.1 | 2297 | 2332 | 3180 | 1175.0 | 501.3 | 2344 | 2383 | 2972 |
| 1077.5 | 468.9 | 2298 | 2334 | 3202 | 1177.5 | 502.1 | 2345 | 2385 | 3158 |
| 1080.0 | 469.7 | 2299 | 2335 | 3066 | 1180.0 | 503.0 | 2346 | 2386 | 2819 |
| 1082.5 | 470.5 | 2301 | 2336 | 2854 | 1182.5 | 503.7 | 2348 | 2387 | 3257 |
| 1085.0 | 471.4 | 2302 | 2338 | 3022 | 1185.0 | 504.4 | 2349 | 2389 | 3455 |
| 1087.5 | 472.2 | 2303 | 2339 | 3131 | 1187.5 | 505.2 | 2351 | 2391 | 3355 |
| 1090.0 | 473.0 | 2305 | 2341 | 3176 | 1190.0 | 506.1 | 2352 | 2392 | 2887 |
| 1092.5 | 473.8 | 2306 | 2343 | 3132 | 1192.5 | 506.9 | 2352 | 2393 | 2891 |
| 1095.0 | 474.6 | 2307 | 2344 | 3080 | 1195.0 | 507.8 | 2353 | 2394 | 2873 |
| 1097.5 | 475.4 | 2309 | 2346 | 3191 | 1197.5 | 508.6 | 2355 | 2395 | 3273 |
| 1100.0 | 476.2 | 2310 | 2347 | 3036 | 1200.0 | 509.4 | 2356 | 2397 | 3106 |

TABLE 1.

Time-Depth curve values

Page 7.

Well : BOGGY1 CREEK #1

Survey units : METRES

Calibrated sonic interval velocities used from 507.5 to 1845.0

Client : GAS AND FUEL EXPLORATION N.L.

Datum : 0.0

| Datum Depth | One-way time(ms) | -----VELOCITIES----- | | | Datum Depth | One-way time(ms) | -----VELOCITIES----- | | |
|----------------|---------------------|----------------------|------|----------|----------------|---------------------|----------------------|------|----------|
| | | Average | RMS | Interval | | | Average | RMS | Interval |
| 1202.5 | 510.2 | 2357 | 2397 | 2883 | 1302.5 | 543.6 | 2396 | 2439 | 2953 |
| 1205.0 | 511.1 | 2358 | 2398 | 2967 | 1305.0 | 544.3 | 2397 | 2440 | 3464 |
| 1207.5 | 511.9 | 2359 | 2399 | 2930 | 1307.5 | 545.1 | 2399 | 2442 | 3311 |
| 1210.0 | 512.7 | 2360 | 2401 | 3049 | 1310.0 | 545.9 | 2400 | 2443 | 3221 |
| 1212.5 | 513.6 | 2361 | 2402 | 2958 | 1312.5 | 546.7 | 2401 | 2444 | 3067 |
| 1215.0 | 514.4 | 2362 | 2403 | 3066 | 1315.0 | 547.4 | 2402 | 2446 | 3560 |
| 1217.5 | 515.3 | 2363 | 2404 | 2865 | 1317.5 | 548.0 | 2404 | 2448 | 3910 |
| 1220.0 | 516.1 | 2364 | 2405 | 3024 | 1320.0 | 548.8 | 2405 | 2449 | 3336 |
| 1222.5 | 516.9 | 2365 | 2406 | 3173 | 1322.5 | 549.6 | 2406 | 2450 | 3063 |
| 1225.0 | 517.7 | 2366 | 2407 | 2910 | 1325.0 | 550.4 | 2407 | 2452 | 3192 |
| 1227.5 | 518.6 | 2367 | 2408 | 2835 | 1327.5 | 551.2 | 2408 | 2452 | 2898 |
| 1230.0 | 519.5 | 2368 | 2409 | 2912 | 1330.0 | 552.1 | 2409 | 2453 | 2863 |
| 1232.5 | 520.4 | 2369 | 2410 | 2844 | 1332.5 | 552.9 | 2410 | 2454 | 3184 |
| 1235.0 | 521.2 | 2369 | 2410 | 2849 | 1335.0 | 553.7 | 2411 | 2455 | 2983 |
| 1237.5 | 522.1 | 2370 | 2412 | 3054 | 1337.5 | 554.5 | 2412 | 2456 | 3207 |
| 1240.0 | 522.8 | 2372 | 2413 | 3414 | 1340.0 | 555.2 | 2414 | 2458 | 3757 |
| 1242.5 | 523.6 | 2373 | 2414 | 3106 | 1342.5 | 556.0 | 2415 | 2460 | 3181 |
| 1245.0 | 524.4 | 2374 | 2416 | 3173 | 1345.0 | 556.7 | 2416 | 2461 | 3160 |
| 1247.5 | 525.2 | 2375 | 2417 | 3152 | 1347.5 | 557.5 | 2417 | 2462 | 3148 |
| 1250.0 | 526.0 | 2377 | 2418 | 3191 | 1350.0 | 558.3 | 2418 | 2463 | 3205 |
| 1252.5 | 526.8 | 2378 | 2419 | 2957 | 1352.5 | 559.2 | 2419 | 2464 | 2830 |
| 1255.0 | 527.6 | 2379 | 2420 | 3034 | 1355.0 | 560.1 | 2419 | 2464 | 2869 |
| 1257.5 | 528.5 | 2379 | 2421 | 2986 | 1357.5 | 560.9 | 2420 | 2465 | 3086 |
| 1260.0 | 529.3 | 2380 | 2422 | 2871 | 1360.0 | 561.6 | 2422 | 2467 | 3537 |
| 1262.5 | 530.3 | 2381 | 2423 | 2760 | 1362.5 | 562.4 | 2423 | 2468 | 3150 |
| 1265.0 | 531.1 | 2382 | 2424 | 2894 | 1365.0 | 563.2 | 2424 | 2469 | 3219 |
| 1267.5 | 531.9 | 2383 | 2425 | 3011 | 1367.5 | 564.0 | 2425 | 2470 | 3146 |
| 1270.0 | 532.8 | 2384 | 2426 | 3040 | 1370.0 | 564.7 | 2426 | 2472 | 3448 |
| 1272.5 | 533.6 | 2385 | 2427 | 2971 | 1372.5 | 565.5 | 2427 | 2473 | 3063 |
| 1275.0 | 534.4 | 2386 | 2428 | 3094 | 1375.0 | 566.3 | 2428 | 2474 | 3022 |
| 1277.5 | 535.2 | 2387 | 2429 | 3075 | 1377.5 | 567.1 | 2429 | 2475 | 3130 |
| 1280.0 | 536.1 | 2388 | 2430 | 2924 | 1380.0 | 568.0 | 2430 | 2476 | 3019 |
| 1282.5 | 536.8 | 2389 | 2431 | 3284 | 1382.5 | 568.8 | 2431 | 2477 | 3139 |
| 1285.0 | 537.7 | 2390 | 2432 | 2912 | 1385.0 | 569.5 | 2432 | 2478 | 3131 |
| 1287.5 | 538.5 | 2391 | 2433 | 3185 | 1387.5 | 570.3 | 2433 | 2479 | 3195 |
| 1290.0 | 539.3 | 2392 | 2435 | 3196 | 1390.0 | 571.1 | 2434 | 2480 | 3085 |
| 1292.5 | 540.1 | 2393 | 2436 | 3057 | 1392.5 | 571.9 | 2435 | 2481 | 3098 |
| 1295.0 | 541.0 | 2394 | 2437 | 2891 | 1395.0 | 572.7 | 2436 | 2482 | 3124 |
| 1297.5 | 541.9 | 2395 | 2437 | 2772 | 1397.5 | 573.6 | 2437 | 2483 | 3097 |
| 1300.0 | 542.8 | 2395 | 2438 | 2760 | 1400.0 | 574.4 | 2438 | 2484 | 3135 |

TABLE 1.

Time-Depth curve values

Page 8.

Well : BOGGYI CREEK #1

Client : GAS AND FUEL EXPLORATION N.L.

Survey units : METRES

Datum : 0.0

Calibrated sonic interval velocities used from 507.5 to 1845.0

| Datum | One-way | -----VELOCITIES----- | | | Datum | One-way | -----VELOCITIES----- | | |
|--------|----------|----------------------|------|----------|--------|----------|----------------------|------|----------|
| Depth | time(ms) | Average | RMS | Interval | Depth | time(ms) | Average | RMS | Interval |
| 1402.5 | 575.2 | 2438 | 2485 | 3109 | 1502.5 | 605.6 | 2481 | 2531 | 3189 |
| 1405.0 | 575.9 | 2440 | 2486 | 3334 | 1505.0 | 606.3 | 2482 | 2533 | 3333 |
| 1407.5 | 576.7 | 2441 | 2487 | 3178 | 1507.5 | 607.1 | 2483 | 2533 | 3197 |
| 1410.0 | 577.5 | 2442 | 2488 | 3086 | 1510.0 | 607.9 | 2484 | 2534 | 3206 |
| 1412.5 | 578.3 | 2443 | 2489 | 3225 | 1512.5 | 608.7 | 2485 | 2535 | 3184 |
| 1415.0 | 579.0 | 2444 | 2491 | 3370 | 1515.0 | 609.4 | 2486 | 2537 | 3387 |
| 1417.5 | 579.8 | 2445 | 2492 | 3388 | 1517.5 | 610.2 | 2487 | 2538 | 3358 |
| 1420.0 | 580.5 | 2446 | 2494 | 3577 | 1520.0 | 610.9 | 2488 | 2539 | 3287 |
| 1422.5 | 581.2 | 2447 | 2495 | 3274 | 1522.5 | 611.7 | 2489 | 2540 | 3364 |
| 1425.0 | 582.0 | 2448 | 2496 | 3188 | 1525.0 | 612.4 | 2490 | 2541 | 3327 |
| 1427.5 | 582.8 | 2449 | 2497 | 3211 | 1527.5 | 613.2 | 2491 | 2542 | 3324 |
| 1430.0 | 583.6 | 2450 | 2498 | 3138 | 1530.0 | 613.9 | 2492 | 2543 | 3262 |
| 1432.5 | 584.4 | 2451 | 2499 | 3160 | 1532.5 | 614.8 | 2493 | 2544 | 2953 |
| 1435.0 | 585.2 | 2452 | 2500 | 3091 | 1535.0 | 615.6 | 2494 | 2545 | 3076 |
| 1437.5 | 585.9 | 2453 | 2501 | 3326 | 1537.5 | 616.5 | 2494 | 2545 | 2918 |
| 1440.0 | 586.6 | 2455 | 2503 | 3599 | 1540.0 | 617.3 | 2495 | 2546 | 3002 |
| 1442.5 | 587.3 | 2456 | 2504 | 3533 | 1542.5 | 618.1 | 2495 | 2546 | 2916 |
| 1445.0 | 588.1 | 2457 | 2505 | 3253 | 1545.0 | 619.0 | 2496 | 2547 | 2918 |
| 1447.5 | 588.9 | 2458 | 2506 | 3052 | 1547.5 | 619.8 | 2497 | 2548 | 2986 |
| 1450.0 | 589.6 | 2459 | 2508 | 3529 | 1550.0 | 620.7 | 2497 | 2548 | 3022 |
| 1452.5 | 590.3 | 2461 | 2509 | 3611 | 1552.5 | 621.5 | 2498 | 2549 | 2874 |
| 1455.0 | 591.0 | 2462 | 2510 | 3458 | 1555.0 | 622.4 | 2498 | 2549 | 2954 |
| 1457.5 | 591.7 | 2463 | 2512 | 3613 | 1557.5 | 623.2 | 2499 | 2550 | 2967 |
| 1460.0 | 592.5 | 2464 | 2513 | 3300 | 1560.0 | 624.1 | 2500 | 2550 | 2864 |
| 1462.5 | 593.3 | 2465 | 2514 | 3266 | 1562.5 | 625.0 | 2500 | 2551 | 2873 |
| 1465.0 | 594.0 | 2466 | 2515 | 3265 | 1565.0 | 625.9 | 2501 | 2551 | 2817 |
| 1467.5 | 594.8 | 2467 | 2517 | 3346 | 1567.5 | 626.7 | 2501 | 2552 | 3001 |
| 1470.0 | 595.5 | 2468 | 2518 | 3294 | 1570.0 | 627.5 | 2502 | 2553 | 3015 |
| 1472.5 | 596.3 | 2469 | 2519 | 3329 | 1572.5 | 628.4 | 2503 | 2553 | 2970 |
| 1475.0 | 597.1 | 2470 | 2520 | 3251 | 1575.0 | 629.2 | 2503 | 2554 | 3049 |
| 1477.5 | 597.8 | 2472 | 2521 | 3319 | 1577.5 | 630.0 | 2504 | 2555 | 2974 |
| 1480.0 | 598.6 | 2473 | 2522 | 3216 | 1580.0 | 630.9 | 2504 | 2555 | 2868 |
| 1482.5 | 599.4 | 2474 | 2523 | 3260 | 1582.5 | 631.7 | 2505 | 2556 | 3021 |
| 1485.0 | 600.1 | 2475 | 2524 | 3258 | 1585.0 | 632.6 | 2506 | 2556 | 2921 |
| 1487.5 | 600.9 | 2475 | 2525 | 3241 | 1587.5 | 633.4 | 2506 | 2557 | 2922 |
| 1490.0 | 601.7 | 2476 | 2526 | 3135 | 1590.0 | 634.3 | 2507 | 2557 | 2981 |
| 1492.5 | 602.5 | 2477 | 2527 | 3144 | 1592.5 | 635.1 | 2507 | 2558 | 2963 |
| 1495.0 | 603.3 | 2478 | 2528 | 3157 | 1595.0 | 636.0 | 2508 | 2559 | 2979 |
| 1497.5 | 604.1 | 2479 | 2529 | 3205 | 1597.5 | 636.8 | 2509 | 2559 | 2917 |
| 1500.0 | 604.8 | 2480 | 2530 | 3355 | 1600.0 | 637.7 | 2509 | 2560 | 2877 |

TABLE 1.

Time-Depth curve values

Page 9.

Well : BOGGY1 CREEK #1

Survey units : METRES

Calibrated sonic interval velocities used from 507.5 to 1845.0

Client : GAS AND FUEL EXPLORATION N.L.

Datum : 0.0

| Datum | One-way | -----VELOCITIES----- | | | Datum | One-way | -----VELOCITIES----- | | |
|--------|----------|----------------------|------|----------|--------|----------|----------------------|------|----------|
| Depth | time(ms) | Average | RMS | Interval | Depth | time(ms) | Average | RMS | Interval |
| 1602.5 | 638.6 | 2509 | 2560 | 2670 | 1702.5 | 670.6 | 2539 | 2591 | 3311 |
| 1605.0 | 639.5 | 2510 | 2560 | 2752 | 1705.0 | 671.3 | 2540 | 2592 | 3454 |
| 1607.5 | 640.4 | 2510 | 2560 | 2833 | 1707.5 | 672.0 | 2541 | 2593 | 3489 |
| 1610.0 | 641.3 | 2511 | 2561 | 2862 | 1710.0 | 672.7 | 2542 | 2594 | 3647 |
| 1612.5 | 642.2 | 2511 | 2561 | 2828 | 1712.5 | 673.3 | 2543 | 2596 | 4155 |
| 1615.0 | 643.1 | 2511 | 2561 | 2734 | 1715.0 | 673.9 | 2545 | 2598 | 4029 |
| 1617.5 | 643.9 | 2512 | 2562 | 3006 | 1717.5 | 674.6 | 2546 | 2599 | 3726 |
| 1620.0 | 644.7 | 2513 | 2563 | 2983 | 1720.0 | 675.3 | 2547 | 2600 | 3696 |
| 1622.5 | 645.6 | 2513 | 2563 | 3000 | 1722.5 | 675.9 | 2548 | 2602 | 3792 |
| 1625.0 | 646.4 | 2514 | 2564 | 3135 | 1725.0 | 676.6 | 2550 | 2603 | 3764 |
| 1627.5 | 647.2 | 2515 | 2565 | 3191 | 1727.5 | 677.2 | 2551 | 2605 | 3842 |
| 1630.0 | 647.9 | 2516 | 2566 | 3299 | 1730.0 | 677.9 | 2552 | 2606 | 3753 |
| 1632.5 | 648.6 | 2517 | 2567 | 3626 | 1732.5 | 678.6 | 2553 | 2607 | 3599 |
| 1635.0 | 649.3 | 2518 | 2569 | 3761 | 1735.0 | 679.3 | 2554 | 2608 | 3629 |
| 1637.5 | 650.0 | 2519 | 2570 | 3475 | 1737.5 | 680.0 | 2555 | 2610 | 3561 |
| 1640.0 | 650.8 | 2520 | 2571 | 3096 | 1740.0 | 680.7 | 2556 | 2611 | 3757 |
| 1642.5 | 651.6 | 2521 | 2571 | 2960 | 1742.5 | 681.3 | 2557 | 2612 | 3722 |
| 1645.0 | 652.5 | 2521 | 2572 | 2886 | 1745.0 | 682.0 | 2559 | 2614 | 3683 |
| 1647.5 | 653.5 | 2521 | 2572 | 2585 | 1747.5 | 682.7 | 2560 | 2615 | 3521 |
| 1650.0 | 654.5 | 2521 | 2572 | 2528 | 1750.0 | 683.4 | 2561 | 2616 | 3607 |
| 1652.5 | 655.3 | 2522 | 2572 | 2691 | 1752.5 | 684.1 | 2562 | 2617 | 3645 |
| 1655.0 | 656.1 | 2523 | 2573 | 3381 | 1755.0 | 684.8 | 2563 | 2618 | 3752 |
| 1657.5 | 656.8 | 2524 | 2574 | 3493 | 1757.5 | 685.4 | 2564 | 2620 | 3683 |
| 1660.0 | 657.5 | 2525 | 2575 | 3461 | 1760.0 | 686.2 | 2565 | 2621 | 3556 |
| 1662.5 | 658.2 | 2526 | 2577 | 3588 | 1762.5 | 686.9 | 2566 | 2622 | 3384 |
| 1665.0 | 658.9 | 2527 | 2578 | 3508 | 1765.0 | 687.6 | 2567 | 2623 | 3437 |
| 1667.5 | 659.6 | 2528 | 2579 | 3502 | 1767.5 | 688.3 | 2568 | 2624 | 3768 |
| 1670.0 | 660.4 | 2529 | 2580 | 3430 | 1770.0 | 689.0 | 2569 | 2625 | 3604 |
| 1672.5 | 661.1 | 2530 | 2581 | 3214 | 1772.5 | 689.7 | 2570 | 2626 | 3358 |
| 1675.0 | 662.0 | 2530 | 2582 | 2948 | 1775.0 | 690.4 | 2571 | 2627 | 3543 |
| 1677.5 | 662.8 | 2531 | 2582 | 3038 | 1777.5 | 691.2 | 2572 | 2628 | 3394 |
| 1680.0 | 663.7 | 2531 | 2582 | 2794 | 1780.0 | 691.9 | 2573 | 2629 | 3513 |
| 1682.5 | 664.4 | 2532 | 2584 | 3460 | 1782.5 | 692.6 | 2574 | 2630 | 3478 |
| 1685.0 | 665.2 | 2533 | 2584 | 3079 | 1785.0 | 693.3 | 2575 | 2631 | 3550 |
| 1687.5 | 666.1 | 2533 | 2585 | 2829 | 1787.5 | 694.0 | 2576 | 2632 | 3592 |
| 1690.0 | 666.8 | 2534 | 2586 | 3417 | 1790.0 | 694.7 | 2577 | 2634 | 3677 |
| 1692.5 | 667.6 | 2535 | 2587 | 3306 | 1792.5 | 695.4 | 2578 | 2635 | 3570 |
| 1695.0 | 668.4 | 2536 | 2587 | 3236 | 1795.0 | 696.0 | 2579 | 2636 | 3752 |
| 1697.5 | 669.1 | 2537 | 2589 | 3585 | 1797.5 | 696.7 | 2580 | 2637 | 3570 |
| 1700.0 | 669.8 | 2538 | 2590 | 3353 | 1800.0 | 697.4 | 2581 | 2638 | 3590 |

TABLE 1.

Time-Depth curve values

Page 10.

Well : BOGGY1 CREEK #1

Client : GAS AND FUEL EXPLORATION N.L.

Survey units : METRES

Datum : 0.0

Calibrated sonic interval velocities used from 507.5 to 1845.0

| Datum | One-way | -----VELOCITIES----- | | | Datum | One-way | -----VELOCITIES----- | | |
|--------|----------|----------------------|------|----------|--------|----------|----------------------|------|----------|
| Depth | time(ms) | Average | RMS | Interval | Depth | time(ms) | Average | RMS | Interval |
| 1802.5 | 698.1 | 2582 | 2640 | 3629 | 1825.0 | 704.2 | 2592 | 2651 | 3574 |
| 1805.0 | 698.8 | 2583 | 2641 | 3659 | 1827.5 | 704.8 | 2593 | 2652 | 3720 |
| 1807.5 | 699.5 | 2584 | 2642 | 3537 | 1830.0 | 705.5 | 2594 | 2653 | 3570 |
| 1810.0 | 700.2 | 2585 | 2643 | 3577 | 1832.5 | 706.2 | 2595 | 2654 | 3748 |
| 1812.5 | 700.8 | 2586 | 2645 | 3937 | 1835.0 | 706.8 | 2596 | 2656 | 4074 |
| 1815.0 | 701.5 | 2587 | 2646 | 3783 | 1837.5 | 707.5 | 2597 | 2657 | 3490 |
| 1817.5 | 702.2 | 2588 | 2647 | 3593 | 1840.0 | 708.2 | 2598 | 2658 | 3677 |
| 1820.0 | 702.8 | 2590 | 2648 | 3768 | 1842.5 | 708.8 | 2599 | 2660 | 4082 |
| 1822.5 | 703.5 | 2591 | 2650 | 3951 | 1845.0 | 709.4 | 2601 | 2661 | 4091 |

PE907680

This is an enclosure indicator page.
The enclosure PE907680 is enclosed within the
container PE905695 at this location in this
document.

The enclosure PE907680 has the following characteristics:

ITEM_BARCODE = PE907680
CONTAINER_BARCODE = PE905695
NAME = Time Depth & Velocity Curves
BASIN = OTWAY
PERMIT = PEP 104
TYPE = WELL
SUBTYPE = VELOCITY_CHART
DESCRIPTION = Time Depth and Velocity Curves
(enclosure from Appendix 7 of WCR) for
Boggy Creek-1
REMARKS =
DATE_CREATED = 5/01/92
DATE RECEIVED =
W_NO = W1053
WELL_NAME = BOGGY CREEK-1
CONTRACTOR = VELOCITY DATA PTY LTD.
CLIENT_OP_CO = GAS AND FUEL EXPLORATION NL.

(Inserted by DNRE - Vic Govt Mines Dept)

PE907655

This is an enclosure indicator page.
The enclosure PE907655 is enclosed within the
container PE905695 at this location in this
document.

The enclosure PE907655 has the following characteristics:

ITEM_BARCODE = PE907655
CONTAINER_BARCODE = PE905695
NAME = Shot Calculations 1 of 6
BASIN = OTWAY
PERMIT = PEP 104
TYPE = WELL
SUBTYPE = VELOCITY_CHART
DESCRIPTION = Shot Calculations, Page 1 of 6,
(enclosure from Appendix 7 of WCR) for
Boggy Creek-1
REMARKS =
DATE_CREATED = 5/01/92
DATE RECEIVED =
W_NO = W1053
WELL_NAME = BOGGY CREEK-1
CONTRACTOR = VELSEIS PTY.LTD.
CLIENT_OP_CO = GAS AND FUEL EXPLORATION NL.

(Inserted by DNRE - Vic Govt Mines Dept)

PE907656

This is an enclosure indicator page.
The enclosure PE907656 is enclosed within the
container PE905695 at this location in this
document.

The enclosure PE907656 has the following characteristics:

ITEM_BARCODE = PE907656
CONTAINER_BARCODE = PE905695
NAME = Shot Calculations 2 of 6
BASIN = OTWAY
PERMIT = PEP 104
TYPE = WELL
SUBTYPE = VELOCITY_CHART
DESCRIPTION = Shot Calculations, Page 2 of 6,
(enclosure from Appendix 7 of WCR) for
Boggy Creek-1
REMARKS =
DATE_CREATED = 5/01/92
DATE RECEIVED =
W_NO = W1053
WELL_NAME = BOGGY CREEK-1
CONTRACTOR = VELSEIS PTY.LTD.
CLIENT_OP_CO = GAS AND FUEL EXPLORATION NL.

(Inserted by DNRE - Vic Govt Mines Dept)

PE907657

This is an enclosure indicator page.
The enclosure PE907657 is enclosed within the
container PE905695 at this location in this
document.

The enclosure PE907657 has the following characteristics:

ITEM_BARCODE = PE907657
CONTAINER_BARCODE = PE905695
NAME = Shot Calculations 3 of 6
BASIN = OTWAY
PERMIT = PEP 104
TYPE = WELL
SUBTYPE = VELOCITY_CHART
DESCRIPTION = Shot Calculations, Page 3 of 6,
(enclosure from Appendix 7 of WCR) for
Boggy Creek-1
REMARKS =
DATE_CREATED = 5/01/92
DATE_RECEIVED =
W_NO = W1053
WELL_NAME = BOGGY CREEK-1
CONTRACTOR = VELSEIS PTY.LTD.
CLIENT_OP_CO = GAS AND FUEL EXPLORATION NL.

(Inserted by DNRE - Vic Govt Mines Dept)

PE907658

This is an enclosure indicator page.
The enclosure PE907658 is enclosed within the
container PE905695 at this location in this
document.

The enclosure PE907658 has the following characteristics:

ITEM_BARCODE = PE907658
CONTAINER_BARCODE = PE905695
NAME = Shot Calculations 4 of 6
BASIN = OTWAY
PERMIT = PEP 104
TYPE = WELL
SUBTYPE = VELOCITY_CHART
DESCRIPTION = Shot Calculations, Page 4 of 6,
(enclosure from Appendix 7 of WCR) for
Boggy Creek-1
REMARKS =
DATE_CREATED = 5/01/92
DATE_RECEIVED =
W_NO = W1053
WELL_NAME = BOGGY CREEK-1
CONTRACTOR = VELSEIS PTY.LTD.
CLIENT_OP_CO = GAS AND FUEL EXPLORATION NL.

(Inserted by DNRE - Vic Govt Mines Dept)

PE907659

This is an enclosure indicator page.
The enclosure PE907659 is enclosed within the
container PE905695 at this location in this
document.

The enclosure PE907659 has the following characteristics:

ITEM_BARCODE = PE907659
CONTAINER_BARCODE = PE905695
NAME = Shot Calculations 5 of 6
BASIN = OTWAY
PERMIT = PEP 104
TYPE = WELL
SUBTYPE = VELOCITY_CHART
DESCRIPTION = Shot Calculations, Page 5 of 6,
(enclosure from Appendix 7 of WCR) for
Boggy Creek-1
REMARKS =
DATE_CREATED = 5/01/92
DATE_RECEIVED =
W_NO = W1053
WELL_NAME = BOGGY CREEK-1
CONTRACTOR = VELSEIS PTY.LTD.
CLIENT_OP_CO = GAS AND FUEL EXPLORATION NL.

(Inserted by DNRE - Vic Govt Mines Dept)

PE907660

This is an enclosure indicator page.
The enclosure PE907660 is enclosed within the
container PE905695 at this location in this
document.

The enclosure PE907660 has the following characteristics:
ITEM_BARCODE = PE907660
CONTAINER_BARCODE = PE905695
NAME = Shot Calculations 6 of 6
BASIN = OTWAY
PERMIT = PEP 104
TYPE = WELL
SUBTYPE = VELOCITY_CHART
DESCRIPTION = Shot Calculations, Page 6 of 6,
(enclosure from Appendix 7 of WCR) for
Boggy Creek-1
REMARKS =
DATE_CREATED = 5/01/92
DATE_RECEIVED =
W_NO = W1053
WELL_NAME = BOGGY CREEK-1
CONTRACTOR = VELSEIS PTY.LTD.
CLIENT_OP_CO = GAS AND FUEL EXPLORATION NL.

(Inserted by DNRE - Vic Govt Mines Dept)

PE907351

This is an enclosure indicator page.
The enclosure PE907351 is enclosed within the
container PE905695 at this location in this
document.

The enclosure PE907351 has the following characteristics:

ITEM_BARCODE = PE907351
CONTAINER_BARCODE = PE905695
NAME = Well Velocity Survey Data Printout
BASIN = OTWAY
PERMIT = PEP 104
TYPE = WELL
SUBTYPE = VELOCITY_CHART
DESCRIPTION = Well Velocity Survey Computer Data
Printout (enclosure from Appendix 7 of
WCR) for Boggy Creek-1
REMARKS = on computer tractor paper so all sheets
are connected
DATE_CREATED = 5/01/92
DATE RECEIVED = 14/01/93
W_NO = W1053
WELL_NAME = BOGGY CREEK-1
CONTRACTOR = VELOCITY DATA PTY. LTD.
CLIENT_OP_CO = GAS AND FUEL EXPLORATION NL.

(Inserted by DNRE - Vic Govt Mines Dept)