

PETROLEUM DIVISION

21 SEP 1987

Velocity Data

DEPT. NAT. RES & ENV
PE905662



W965

*Attachment to WCR
Well Velocity Survey
Ballangeich-1
(W965)*

WELL VELOCITY SURVEY
BALLANGEICH #1
PEP-101
Victoria
for
PHOENIX OIL AND GAS N.L.

W965

Velocity Data Pty Ltd
Brisbane, Australia.
September 8, 1987.

WELL VELOCITY SURVEY

BALLANGEICH #1

PEP-101

VICTORIA

PETROLEUM DIVISION

21 SEP 1987

for

PHOENIX OIL AND GAS N.L.

by

VELOCITY DATA PTY. LTD.

Brisbane, Australia

September 8, 1987.

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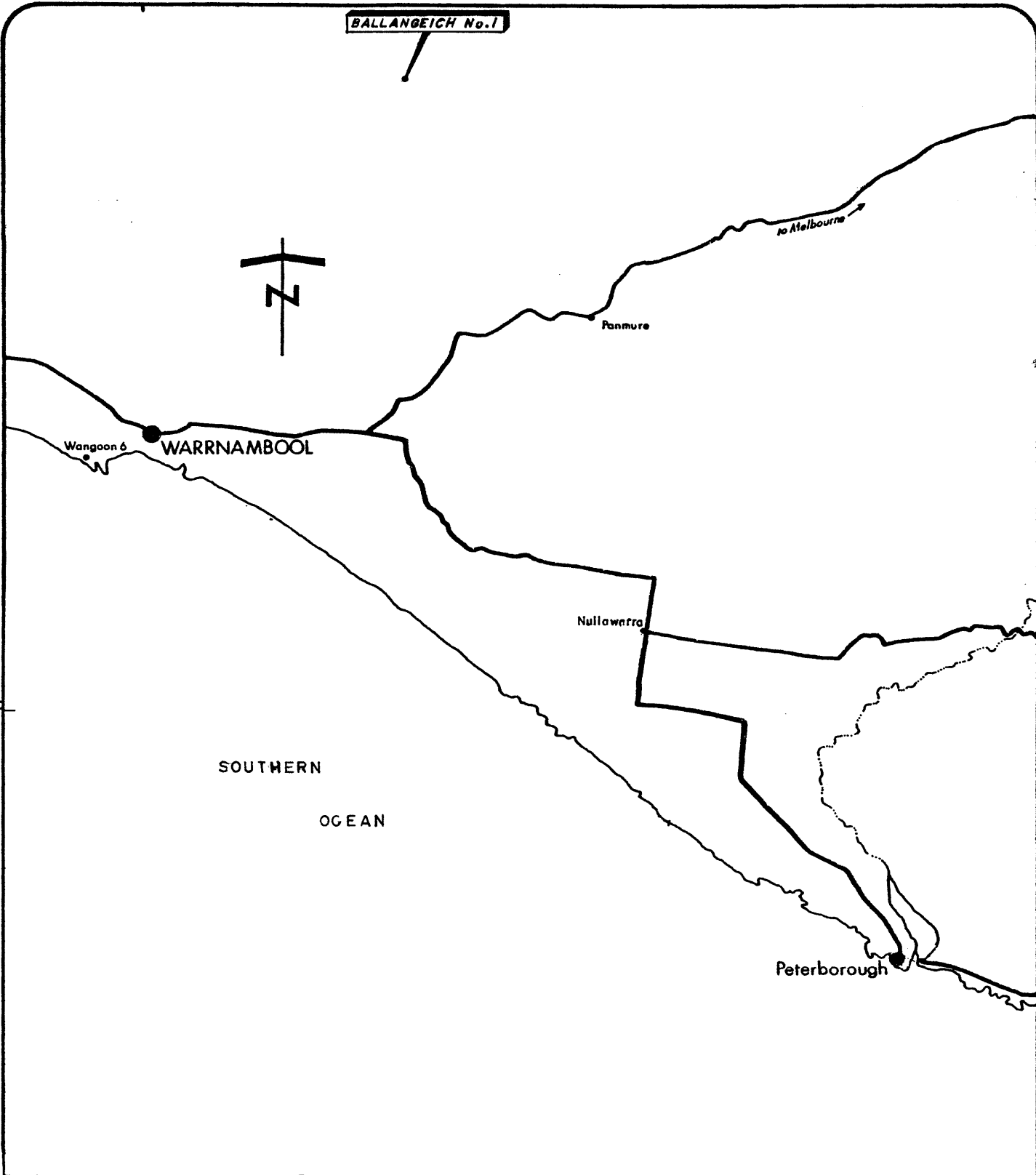
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Enclosures

1.	Calculation Sheets
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142°30

BALLANGEICH No.1

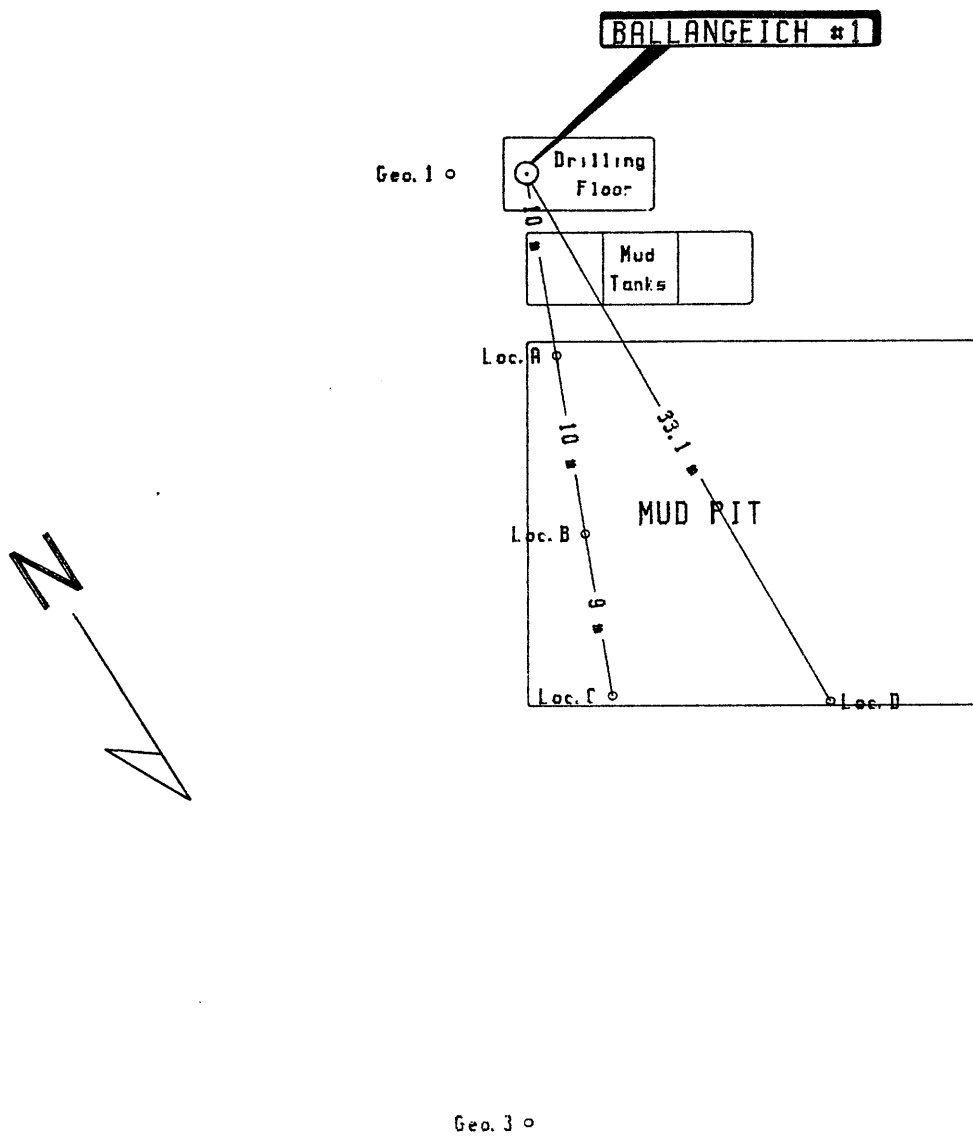


BALLANGEICH No.1
 PHOENIX OIL AND GAS N.L.
 WELL LOCATION MAP

Scale 1: 250 000



Figure 1



BALLANGEICH #1

PHOENIX OIL AND GAS N. L.
 SHOT POINT LOCATION SKETCH



Figure 2

SUMMARY

Velocity Data Pty. Ltd. conducted a velocity survey for Phoenix Oil and Gas N.L. in the Ballangeich No. 1 well, Victoria. The date of the survey was July 27, 1987.

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

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

GENERAL INFORMATION

Name of Well	:	Ballangeich #1
Location (Figure 1)	:	PEP-101, Victoria.
Coordinates	:	Latitude 038 14' 12" S Longitude 142 38' 28" E
Date of Survey	:	July 27, 1987.
Wireline Logging	:	Gearhart DDL-03
Weather	:	Fine
Operational Base	:	Brisbane
Operator	:	N. Delfos
Client Representative	:	B. Sell

EQUIPMENT

Downhole Tool

Veldata Camlock 100 (90 mm)

Sensors:

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

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 analogue presentation. The system includes a DEC LSI-11 CPU, twin cassette tape unit and printer.

RECORDING

Energy Source : Explosive, AN-60
Shot Location : Mud pit
Charge Size : 1 to 2 (125 gm) sticks
Average Shot Depth : 1 metre
Average Shot Offset : 33.1 metres
Recording Geometry : Figure 2

Shots were recorded on digital cassette tape. However, it was found that these tapes could not be read for processing purposes. Consequently, this velocity survey has been performed from the corresponding back-up analogue records. Copies of the shots used are included with this report. (Figure 4)

PROCESSING**Elevation Data**

Elevation of KB : 103.5 metres above sea level
Elevation of Ground : 98.3 metres above sea level
Elevation of Seismic Datum : 100.0 metres above sea level
Depth Surveyed : 1235.0 metres below KB
Total Depth : 1245.7 metres below KB
Depth of Casing : 161.0 metres below KB
Sonic Log Interval : 161.0 to 1241.7 metres below KB

PROCESSING**Recorded Data**

Number of Shots Used : 16
Number of Levels Recorded : 12
Data Quality : Fair
Noise Level : Moderate
Rejected Shots : Nil

Correction for Instrument Delay and Shot Offset

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

- (i) Subtraction of the instrument delay (0.0 msec) from the recorded arrival times
- (ii) geometric correction for non-verticality 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 710 m/sec
- (iv) readdition of the instrument delay (0.0 msec).

The shot static correction velocity was determined by fitting a depth linear velocity model to the surface geophone data.

Correction to Datum

The velocity survey pick times have been corrected to the same datum as indicated on the seismic section. This corresponds to using a recorded time of 0.0 for the datum at 100.0 metres.

PROCESSING

Calibration of Sonic Log - Method

Sonic times were adjusted to checkshot times using a linear correction of the sonic transit 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 generally small. The largest adjustment was 40.38 us/m on the interval 1150.0 to 1202.0 metres below KB.

In aggregate, the shot and sonic interval times differed by 13.8 ms over the logged portion of the well.

PROCESSING**Trace Playouts (Figure 4)**

Figure 4 is a copy of all analogue traces used. The usual trace playouts are not available due to corruption of the field data tape. Each shot has been labelled with its shot number, depth below KB, shot offset, shot size and explosive source type.

Tie to Seismic Section (Figure 5)

A tie was effected between the seismic section and the well velocity data using a two-way time correction of 0.0 msec. That is, it is assumed that the recorded velocity survey pick times are correct. Both the seismic section and the velocity survey used the same reference datum.

Peter Boles
Geophysicist.

PE905661

This is an enclosure indicator page.
The enclosure PE905661 is enclosed within the
container PE905662 at this location in this
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The enclosure PE905661 has the following characteristics:

ITEM_BARCODE = PE905661
CONTAINER_BARCODE = PE905662
NAME = Time-Depth & Velocity Curves Graph
BASIN = OTWAY
PERMIT = PEP101
TYPE = WELL
SUBTYPE = VELOCITY_CHART
DESCRIPTION = Ballangeich-1 Time-Depth & Velocity
Curves graph, figure 3 from Velocity
Survey Report
REMARKS =
DATE_CREATED = 27/07/87
DATE_RECEIVED = 21/09/87
W_NO = W965
WELL_NAME = BALLANGEICH-1
CONTRACTOR = VELOCITY DATA PTY. LTD.
CLIENT_OP_CO = PHOENIX OIL & GAS N.L.

(Inserted by DNRE - Vic Govt Mines Dept)

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CONTAINER_BARCODE = PE905662
NAME = Well Velocity Survey Calculations
BASIN = OTWAY
PERMIT = PEP101
TYPE = WELL
SUBTYPE = DIAGRAM
DESCRIPTION = Ballangeich-1 Well Survey Calculations,
page 1 from Well Velocity Survey Report
REMARKS =
DATE_CREATED = 27/07/87
DATE_RECEIVED = 21/09/87
W_NO = W965
WELL_NAME = BALLANGEICH-1
CONTRACTOR = VELOCITY DATA PTY. LTD.
CLIENT_OP_CO = PHOENIX OIL & GAS N.L.

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PE905664

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container PE905662 at this location in this
document.

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CONTAINER_BARCODE = PE905662
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BASIN = OTWAY
PERMIT = PEP101
TYPE = WELL
SUBTYPE = DIAGRAM
DESCRIPTION = Ballangeich-1 Well Survey Calculations,
page 2 from Well Velocity Survey Report
REMARKS =
DATE_CREATED = 27/07/87
DATE_RECEIVED = 21/09/87
W_NO = W965
WELL_NAME = BALLANGEICH-1
CONTRACTOR = VELOCITY DATA PTY. LTD.
CLIENT_OP_CO = PHOENIX OIL & GAS N.L.

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- BASIN = OTWAY
- PERMIT = PEP101
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- SUBTYPE = DIAGRAM
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page 3 from Well Velocity Survey Report
- REMARKS =
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- DATE_RECEIVED = 21/09/87
- W_NO = W965
- WELL_NAME = BALLANGEICH-1
- CONTRACTOR = VELOCITY DATA PTY. LTD.
- CLIENT_OP_CO = PHOENIX OIL & GAS N.L.

(Inserted by DNRE - Vic Govt Mines Dept)

TABLE 1.

Time-Depth curve values

Page 1.

Well : BALLANGEICH #1

Survey units : METRES

Calibrated sonic interval velocities used from

Client : PHOENIX OIL AND GAS N.L.

Datum : 100.0

176.0 to 1230.0

Datum Depth	One-way time(ms)	-----VELOCITIES-----			Datum Depth	One-way time(ms)	-----VELOCITIES-----		
		Average	RMS	Interval			Average	RMS	Interval
2.0	1.4	1396	1396	1396	82.0	51.8	1583	1587	1772
4.0	2.8	1408	1408	1420	84.0	52.9	1587	1592	1778
6.0	4.2	1418	1418	1437	86.0	54.1	1591	1596	1783
8.0	5.6	1426	1426	1451	88.0	55.2	1595	1600	1787
10.0	7.0	1433	1433	1461	90.0	56.3	1599	1604	1792
12.0	8.3	1439	1439	1469	92.0	57.4	1603	1608	1796
14.0	9.7	1444	1444	1475	94.0	58.5	1606	1612	1801
16.0	11.0	1448	1448	1480	96.0	59.6	1610	1616	1807
18.0	12.4	1452	1452	1483	98.0	60.7	1614	1619	1814
20.0	13.7	1455	1456	1486	100.0	61.8	1617	1623	1820
22.0	15.1	1458	1459	1489	102.0	62.9	1621	1627	1825
24.0	16.4	1461	1461	1491	104.0	64.0	1625	1631	1829
26.0	17.8	1463	1464	1493	106.0	65.1	1628	1634	1831
28.0	19.1	1466	1466	1496	108.0	66.2	1631	1638	1834
30.0	20.4	1468	1468	1499	110.0	67.3	1635	1641	1835
32.0	21.8	1470	1470	1502	112.0	68.4	1638	1644	1836
34.0	23.1	1472	1472	1506	114.0	69.5	1641	1647	1837
36.0	24.4	1474	1475	1512	116.0	70.6	1644	1651	1838
38.0	25.7	1476	1477	1519	118.0	71.6	1647	1654	1838
40.0	27.0	1479	1479	1528	120.0	72.7	1650	1657	1838
42.0	28.3	1482	1482	1542	122.0	73.8	1653	1659	1839
44.0	29.6	1485	1486	1559	124.0	74.9	1655	1662	1839
46.0	30.9	1489	1490	1564	126.0	76.0	1658	1665	1839
48.0	32.1	1494	1495	1616	128.0	77.1	1661	1667	1839
50.0	33.3	1500	1501	1647	130.0	78.2	1663	1670	1839
52.0	34.5	1506	1507	1671	132.0	79.3	1666	1672	1839
54.0	35.7	1512	1513	1689	134.0	80.3	1668	1675	1839
56.0	36.9	1518	1520	1703	136.0	81.4	1670	1677	1839
58.0	38.1	1524	1526	1713	138.0	82.5	1672	1679	1839
60.0	39.2	1530	1532	1721	140.0	83.6	1675	1681	1839
62.0	40.4	1535	1538	1728	142.0	84.7	1677	1684	1839
64.0	41.5	1541	1544	1733	144.0	85.8	1679	1686	1839
66.0	42.7	1546	1549	1737	146.0	86.9	1681	1688	1839
68.0	43.8	1551	1555	1740	148.0	88.0	1683	1690	1839
70.0	45.0	1556	1560	1743	150.0	89.0	1685	1691	1839
72.0	46.1	1561	1565	1747	152.0	90.1	1686	1693	1839
74.0	47.3	1565	1569	1750	154.0	91.2	1688	1695	1839
76.0	48.4	1570	1574	1754	156.0	92.3	1690	1697	1838
78.0	49.5	1574	1578	1759	158.0	93.4	1692	1699	1838
80.0	50.7	1578	1583	1765	160.0	94.5	1693	1700	1838

TABLE 1.

Time-Depth curve values

Page 2.

Well : BALLANGEICH #1

Client : PHOENIX OIL AND GAS N.L.

Survey units : METRES

Datum : 100.0

Calibrated sonic interval velocities used from 176.0 to 1230.0

Datum Depth	One-way time(ms)	-----VELOCITIES-----			Datum Depth	One-way time(ms)	-----VELOCITIES-----		
		Average	RMS	Interval			Average	RMS	Interval
162.0	95.6	1695	1702	1837	242.0	141.0	1716	1721	1802
164.0	96.7	1697	1703	1836	244.0	142.2	1716	1721	1746
166.0	97.7	1698	1705	1835	246.0	143.3	1717	1722	1792
168.0	98.8	1700	1706	1833	248.0	144.5	1716	1721	1672
170.0	99.9	1701	1708	1831	250.0	145.6	1717	1722	1749
172.0	101.0	1703	1709	1828	252.0	146.7	1718	1723	1884
174.0	102.2	1702	1709	1681	254.0	147.7	1719	1725	1957
176.0	103.4	1702	1709	1685	256.0	148.8	1721	1726	1869
178.0	104.6	1702	1708	1675	258.0	149.9	1721	1726	1754
180.0	105.8	1702	1708	1728	260.0	151.1	1721	1726	1749
182.0	106.9	1702	1708	1694	262.0	152.2	1721	1726	1765
184.0	108.1	1702	1709	1737	264.0	153.3	1722	1727	1809
186.0	109.2	1703	1709	1793	266.0	154.4	1723	1728	1858
188.0	110.4	1704	1710	1741	268.0	155.5	1723	1728	1774
190.0	111.5	1704	1710	1695	270.0	156.6	1724	1729	1794
192.0	112.7	1703	1709	1694	272.0	157.7	1725	1729	1847
194.0	113.9	1703	1709	1674	274.0	158.8	1726	1731	1886
196.0	115.1	1703	1709	1711	276.0	159.8	1727	1732	1902
198.0	116.2	1703	1709	1707	278.0	160.9	1728	1733	1891
200.0	117.4	1703	1709	1720	280.0	161.9	1729	1734	1904
202.0	118.6	1704	1709	1732	282.0	162.9	1731	1736	2009
204.0	119.7	1704	1710	1753	284.0	164.0	1732	1737	1910
206.0	120.9	1704	1710	1697	286.0	165.0	1734	1739	1996
208.0	122.0	1705	1710	1754	288.0	166.0	1735	1740	1970
210.0	123.2	1705	1710	1742	290.0	167.0	1737	1742	2032
212.0	124.3	1706	1711	1769	292.0	168.0	1738	1743	1891
214.0	125.4	1706	1712	1790	294.0	169.1	1739	1744	1875
216.0	126.5	1707	1712	1777	296.0	170.2	1740	1745	1891
218.0	127.7	1708	1713	1801	298.0	171.2	1740	1746	1894
220.0	128.7	1709	1715	1892	300.0	172.2	1742	1747	1998
222.0	129.8	1710	1715	1811	302.0	173.3	1743	1748	1923
224.0	130.9	1711	1716	1800	304.0	174.3	1744	1749	1895
226.0	132.0	1712	1717	1797	306.0	175.4	1745	1750	1895
228.0	133.2	1712	1717	1751	308.0	176.5	1746	1751	1852
230.0	134.3	1712	1717	1736	310.0	177.5	1746	1752	1873
232.0	135.5	1712	1717	1728	312.0	178.6	1747	1752	1836
234.0	136.6	1713	1718	1759	314.0	179.7	1748	1753	1875
236.0	137.7	1714	1719	1825	316.0	180.7	1749	1754	1944
238.0	138.8	1714	1720	1822	318.0	181.7	1750	1756	2001
240.0	139.9	1715	1720	1819	320.0	182.7	1751	1757	1933

TABLE 1.

Time-Depth curve values

Page 3.

Well : BALLANGEICH #1

Client : PHOENIX OIL AND GAS N.L.

Survey units : METRES

Datum : 100.0

Calibrated sonic interval velocities used from 176.0 to 1230.0

Datum Depth	One-way time(ms)	-----VELOCITIES-----			Datum Depth	One-way time(ms)	-----VELOCITIES-----		
		Average	RMS	Interval			Average	RMS	Interval
322.0	183.7	1752	1758	1998	402.0	222.4	1808	1820	2219
324.0	184.8	1753	1759	1928	404.0	223.3	1809	1821	2171
326.0	185.8	1754	1760	1902	406.0	224.3	1810	1822	2083
328.0	186.8	1756	1761	2015	408.0	225.4	1810	1822	1818
330.0	187.9	1756	1762	1883	410.0	226.4	1811	1823	1935
332.0	189.0	1757	1763	1868	412.0	227.3	1812	1824	2135
334.0	190.0	1758	1764	1950	414.0	228.3	1814	1826	2110
336.0	191.0	1759	1765	1971	416.0	229.2	1815	1827	2240
338.0	192.0	1760	1766	1983	418.0	230.1	1817	1829	2194
340.0	193.1	1761	1767	1896	420.0	231.0	1818	1830	2143
342.0	194.2	1761	1767	1715	422.0	231.9	1820	1832	2230
344.0	195.2	1762	1768	1945	424.0	232.8	1822	1834	2306
346.0	196.3	1763	1768	1884	426.0	233.7	1823	1836	2210
348.0	197.3	1763	1769	1950	428.0	234.6	1824	1837	2160
350.0	198.3	1765	1770	2005	430.0	235.5	1826	1838	2191
352.0	199.4	1766	1771	1945	432.0	236.4	1827	1840	2241
354.0	200.4	1767	1772	1958	434.0	237.3	1829	1842	2295
356.0	201.4	1768	1773	1959	436.0	238.1	1831	1845	2480
358.0	202.4	1768	1774	1919	438.0	239.0	1833	1846	2276
360.0	203.5	1769	1774	1828	440.0	239.8	1835	1848	2338
362.0	204.5	1770	1776	1994	442.0	240.6	1837	1851	2617
364.0	205.5	1771	1777	2086	444.0	241.4	1839	1854	2429
366.0	206.4	1774	1780	2304	446.0	242.4	1840	1854	1978
368.0	207.1	1777	1783	2581	448.0	243.3	1841	1855	2191
370.0	207.9	1780	1787	2658	450.0	244.2	1843	1857	2260
372.0	208.7	1782	1790	2457	452.0	245.2	1844	1858	2147
374.0	209.6	1785	1793	2320	454.0	246.1	1845	1859	2151
376.0	210.5	1786	1795	2193	456.0	247.0	1846	1861	2173
378.0	211.2	1789	1799	2637	458.0	247.9	1848	1863	2315
380.0	212.0	1793	1802	2671	460.0	248.7	1850	1865	2393
382.0	212.7	1796	1806	2722	462.0	249.5	1852	1867	2541
384.0	213.5	1799	1810	2759	464.0	250.2	1854	1870	2636
386.0	214.4	1801	1812	2219	466.0	251.0	1856	1872	2543
388.0	215.3	1802	1814	2128	468.0	251.8	1858	1875	2548
390.0	216.3	1803	1815	2089	470.0	252.7	1860	1876	2284
392.0	217.3	1804	1816	1957	472.0	253.6	1861	1877	2143
394.0	218.4	1804	1816	1747	474.0	254.7	1861	1878	1906
396.0	219.5	1804	1816	1861	476.0	255.6	1862	1878	2106
398.0	220.5	1805	1816	1926	478.0	256.5	1864	1880	2394
400.0	221.5	1806	1818	2104	480.0	257.4	1865	1882	2177

TABLE 1.

Time-Depth curve values

Page 4.

Well : BALLANGEICH #1

Client : PHOENIX OIL AND GAS N.L.

Survey units : METRES

Datum : 100.0

Calibrated sonic interval velocities used from 176.0 to 1230.0

Datum Depth	One-way time(ms)	-----VELOCITIES-----			Datum Depth	One-way time(ms)	-----VELOCITIES-----		
		Average	RMS	Interval			Average	RMS	Interval
482.0	258.3	1866	1883	2198	562.0	293.8	1913	1932	2259
484.0	259.2	1867	1884	2230	564.0	294.7	1914	1933	2356
486.0	260.1	1869	1885	2207	566.0	295.5	1916	1935	2511
488.0	261.0	1870	1887	2282	568.0	296.4	1916	1935	2080
490.0	261.8	1872	1889	2440	570.0	297.4	1917	1936	2098
492.0	262.6	1873	1890	2344	572.0	298.3	1917	1937	2161
494.0	263.5	1875	1892	2420	574.0	299.2	1918	1938	2237
496.0	264.2	1877	1895	2621	576.0	300.1	1919	1939	2207
498.0	265.2	1878	1895	2050	578.0	301.0	1920	1939	2152
500.0	266.1	1879	1896	2140	580.0	301.9	1921	1940	2216
502.0	267.2	1879	1896	1926	582.0	302.8	1922	1941	2285
504.0	268.2	1880	1897	2052	584.0	303.6	1924	1943	2634
506.0	269.1	1881	1898	2193	586.0	304.4	1925	1944	2305
508.0	269.9	1882	1899	2271	588.0	305.4	1925	1945	2114
510.0	270.8	1883	1901	2422	590.0	306.3	1926	1946	2151
512.0	271.6	1885	1903	2421	592.0	307.2	1927	1947	2288
514.0	272.5	1886	1904	2116	594.0	308.1	1928	1948	2200
516.0	273.5	1886	1904	1999	596.0	309.0	1929	1948	2219
518.0	274.5	1887	1905	2056	598.0	309.9	1929	1949	2124
520.0	275.4	1888	1906	2210	600.0	310.9	1930	1950	2171
522.0	276.3	1890	1907	2388	602.0	311.8	1931	1950	2107
524.0	277.2	1890	1908	2127	604.0	312.6	1932	1951	2420
526.0	278.1	1892	1910	2302	606.0	313.4	1934	1954	2666
528.0	278.9	1893	1912	2548	608.0	314.2	1935	1955	2344
530.0	279.8	1894	1912	2136	610.0	315.1	1936	1955	2209
532.0	280.7	1895	1914	2243	612.0	316.1	1936	1956	2170
534.0	281.6	1896	1915	2218	614.0	316.9	1937	1957	2291
536.0	282.5	1897	1916	2219	616.0	317.7	1939	1959	2474
538.0	283.4	1899	1917	2244	618.0	318.6	1940	1960	2263
540.0	284.3	1899	1918	2172	620.0	319.5	1940	1960	2187
542.0	285.2	1901	1919	2248	622.0	320.4	1941	1961	2242
544.0	286.0	1902	1921	2501	624.0	321.3	1942	1962	2244
546.0	286.9	1903	1921	2127	626.0	322.2	1943	1963	2276
548.0	287.8	1904	1922	2229	628.0	323.0	1944	1964	2425
550.0	288.7	1905	1923	2181	630.0	323.8	1946	1966	2678
552.0	289.6	1906	1925	2278	632.0	324.7	1947	1967	2260
554.0	290.4	1908	1927	2578	634.0	325.5	1948	1968	2392
556.0	291.3	1909	1928	2334	636.0	326.4	1949	1969	2237
558.0	292.1	1910	1929	2430	638.0	327.3	1949	1970	2212
560.0	292.9	1912	1931	2327	640.0	328.2	1950	1970	2185

TABLE 1.

Time-Depth curve values

Page 5.

Well : BALLANGEICH #1

Client : PHOENIX OIL AND GAS N.L.

Survey units : METRES

Datum : 100.0

Calibrated sonic interval velocities used from 176.0 to 1230.0

Datum Depth	One-way time(ms)	-----VELOCITIES-----			Datum Depth	One-way time(ms)	-----VELOCITIES-----		
		Average	RMS	Interval			Average	RMS	Interval
642.0	329.1	1951	1971	2278	722.0	363.6	1985	2008	2103
644.0	329.9	1952	1972	2382	724.0	364.5	1986	2008	2296
646.0	330.7	1953	1974	2463	726.0	365.3	1987	2009	2416
648.0	331.5	1955	1976	2692	728.0	366.2	1988	2010	2227
650.0	332.3	1956	1977	2450	730.0	367.2	1988	2010	2125
652.0	333.2	1957	1978	2223	732.0	368.1	1989	2011	2156
654.0	334.1	1957	1978	2142	734.0	369.0	1989	2011	2255
656.0	335.0	1958	1979	2222	736.0	369.9	1990	2012	2262
658.0	335.9	1959	1980	2237	738.0	370.7	1991	2013	2313
660.0	336.8	1959	1980	2228	740.0	371.6	1992	2014	2420
662.0	337.7	1960	1981	2197	742.0	372.4	1992	2015	2425
664.0	338.6	1961	1981	2219	744.0	373.3	1993	2015	2202
666.0	339.5	1962	1982	2346	746.0	374.2	1994	2016	2271
668.0	340.3	1963	1983	2347	748.0	375.1	1994	2016	2282
670.0	341.2	1964	1985	2387	750.0	375.9	1995	2017	2298
672.0	342.0	1965	1986	2394	752.0	376.7	1996	2018	2499
674.0	342.9	1966	1986	2272	754.0	377.6	1997	2019	2449
676.0	343.8	1966	1987	2232	756.0	378.3	1998	2020	2528
678.0	344.7	1967	1988	2282	758.0	379.2	1999	2021	2397
680.0	345.6	1968	1989	2263	760.0	380.0	2000	2022	2398
682.0	346.4	1969	1990	2326	762.0	380.9	2001	2023	2371
684.0	347.1	1971	1992	2854	764.0	381.7	2002	2024	2448
686.0	347.8	1972	1994	2898	766.0	382.5	2003	2025	2454
688.0	348.7	1973	1995	2274	768.0	383.3	2004	2026	2507
690.0	349.6	1974	1995	2204	770.0	384.1	2005	2027	2414
692.0	350.4	1975	1996	2374	772.0	384.9	2005	2028	2411
694.0	351.2	1976	1998	2784	774.0	385.8	2006	2029	2456
696.0	352.1	1977	1999	2225	776.0	386.6	2007	2030	2349
698.0	353.0	1977	1999	2061	778.0	387.5	2008	2031	2362
700.0	353.9	1978	1999	2167	780.0	388.3	2009	2031	2349
702.0	354.9	1978	2000	2184	782.0	389.2	2009	2032	2353
704.0	355.8	1979	2000	2173	784.0	390.0	2010	2033	2354
706.0	356.7	1979	2001	2172	786.0	390.8	2011	2034	2457
708.0	357.6	1980	2001	2221	788.0	391.6	2012	2035	2593
710.0	358.5	1980	2002	2205	790.0	392.4	2013	2036	2364
712.0	359.4	1981	2002	2173	792.0	393.3	2014	2037	2402
714.0	360.3	1981	2003	2199	794.0	394.1	2015	2038	2436
716.0	361.3	1982	2003	2131	796.0	395.0	2015	2038	2321
718.0	362.1	1983	2005	2516	798.0	395.8	2016	2039	2300
720.0	362.7	1985	2007	3214	800.0	396.7	2017	2039	2306

TABLE 1.

Time-Depth curve values

Page 6.

Well : BALLANGEICH #1
Survey units : METRESClient : PHOENIX OIL AND GAS N.L.
Datum : 100.0

Calibrated sonic interval velocities used from 176.0 to 1230.0

Datum Depth	One-way time(ms)	-----VELOCITIES-----			Datum Depth	One-way time(ms)	-----VELOCITIES-----		
		Average	RMS	Interval			Average	RMS	Interval
802.0	397.6	2017	2040	2319	882.0	428.9	2057	2082	2555
804.0	398.4	2018	2041	2394	884.0	429.7	2057	2083	2574
806.0	399.2	2019	2042	2450	886.0	430.4	2059	2085	2714
808.0	400.0	2020	2043	2382	888.0	431.2	2060	2086	2647
810.0	400.9	2020	2043	2295	890.0	431.9	2061	2087	2683
812.0	401.8	2021	2044	2295	892.0	432.7	2062	2088	2576
814.0	402.6	2022	2045	2363	894.0	433.5	2062	2089	2545
816.0	403.4	2023	2045	2461	896.0	434.2	2063	2090	2533
818.0	404.2	2024	2047	2649	898.0	435.0	2064	2091	2603
820.0	405.0	2025	2048	2489	900.0	435.8	2065	2092	2647
822.0	405.8	2025	2049	2421	902.0	436.4	2067	2094	2996
824.0	406.6	2027	2050	2569	904.0	437.1	2068	2096	3197
826.0	407.3	2028	2051	2894	906.0	437.8	2069	2097	2604
828.0	408.1	2029	2052	2363	908.0	438.6	2070	2098	2596
830.0	408.9	2030	2053	2501	910.0	439.4	2071	2098	2564
832.0	409.7	2031	2055	2818	912.0	440.2	2072	2099	2556
834.0	410.4	2032	2056	2654	914.0	440.9	2073	2100	2598
836.0	411.2	2033	2057	2641	916.0	441.7	2074	2101	2672
838.0	412.0	2034	2058	2550	918.0	442.4	2075	2102	2647
840.0	412.7	2035	2059	2558	920.0	443.2	2076	2103	2615
842.0	413.5	2036	2061	2684	922.0	444.0	2077	2104	2616
844.0	414.2	2037	2062	2595	924.0	444.7	2078	2105	2563
846.0	415.0	2038	2063	2547	926.0	445.5	2079	2106	2624
848.0	415.8	2039	2064	2585	928.0	446.3	2079	2107	2651
850.0	416.6	2040	2065	2629	930.0	447.0	2080	2108	2579
852.0	417.3	2042	2066	2644	932.0	447.8	2081	2109	2634
854.0	418.1	2042	2067	2483	934.0	448.6	2082	2110	2609
856.0	418.9	2043	2068	2465	936.0	449.3	2083	2111	2644
858.0	419.8	2044	2069	2413	938.0	450.1	2084	2112	2656
860.0	420.5	2045	2070	2648	940.0	450.8	2085	2113	2618
862.0	421.2	2047	2072	3026	942.0	451.6	2086	2114	2565
864.0	422.0	2047	2072	2454	944.0	452.4	2087	2115	2567
866.0	422.8	2048	2073	2421	946.0	453.2	2088	2116	2594
868.0	423.6	2049	2074	2539	948.0	453.9	2088	2117	2616
870.0	424.3	2050	2076	2952	950.0	454.7	2089	2118	2658
872.0	425.0	2052	2078	2942	952.0	455.4	2090	2119	2691
874.0	425.8	2053	2078	2543	954.0	456.1	2091	2120	2806
876.0	426.5	2054	2080	2603	956.0	456.8	2093	2121	2887
878.0	427.3	2055	2081	2563	958.0	457.6	2093	2122	2464
880.0	428.1	2056	2081	2533	960.0	458.4	2094	2123	2644

TABLE 1.

Time-Depth curve values

Page 7.

Well : BALLANGEICH #1

Client : PHOENIX OIL AND GAS N.L.

Survey units : METRES

Datum : 100.0

Calibrated sonic interval velocities used from 176.0 to 1230.0

Datum Depth	One-way time(ms)	-----VELOCITIES-----			Datum Depth	One-way time(ms)	-----VELOCITIES-----		
		Average	RMS	Interval			Average	RMS	Interval
962.0	459.1	2095	2124	2695	1042.0	489.0	2131	2163	2593
964.0	459.9	2096	2125	2750	1044.0	489.7	2132	2164	2589
966.0	460.6	2097	2127	2812	1046.0	490.5	2133	2164	2620
968.0	461.3	2098	2128	2864	1048.0	491.3	2133	2165	2578
970.0	462.0	2100	2129	2830	1050.0	492.1	2134	2166	2568
972.0	462.7	2101	2130	2807	1052.0	492.8	2135	2167	2595
974.0	463.4	2102	2132	2845	1054.0	493.6	2135	2167	2655
976.0	464.1	2103	2133	3026	1056.0	494.3	2136	2168	2610
978.0	464.6	2105	2136	3794	1058.0	495.1	2137	2169	2618
980.0	465.3	2106	2137	2763	1060.0	495.8	2138	2170	2711
982.0	466.1	2107	2138	2522	1062.0	496.6	2139	2171	2633
984.0	466.9	2108	2138	2567	1064.0	497.4	2139	2172	2655
986.0	467.7	2108	2139	2574	1066.0	498.1	2140	2172	2697
988.0	468.3	2110	2141	2940	1068.0	498.8	2141	2173	2742
990.0	469.0	2111	2142	2852	1070.0	499.5	2142	2174	2900
992.0	469.8	2112	2143	2700	1072.0	500.3	2143	2175	2747
994.0	470.6	2112	2143	2515	1074.0	501.0	2144	2176	2581
996.0	471.4	2113	2144	2438	1076.0	501.8	2144	2177	2678
998.0	472.2	2113	2145	2482	1078.0	502.5	2145	2178	2627
1000.0	473.0	2114	2145	2579	1080.0	503.3	2146	2178	2654
1002.0	473.8	2115	2146	2436	1082.0	504.0	2147	2179	2695
1004.0	474.6	2116	2147	2571	1084.0	504.8	2147	2180	2684
1006.0	475.3	2116	2148	2618	1086.0	505.5	2148	2181	2675
1008.0	476.1	2117	2148	2632	1088.0	506.3	2149	2182	2722
1010.0	476.8	2118	2150	2793	1090.0	507.0	2150	2183	2693
1012.0	477.6	2119	2150	2531	1092.0	507.8	2151	2183	2550
1014.0	478.4	2120	2151	2529	1094.0	508.5	2151	2184	2697
1016.0	479.2	2120	2152	2614	1096.0	509.2	2152	2185	2863
1018.0	480.0	2121	2152	2547	1098.0	509.9	2153	2187	3102
1020.0	480.7	2122	2153	2565	1100.0	510.6	2154	2187	2667
1022.0	481.5	2123	2154	2706	1102.0	511.3	2155	2188	2744
1024.0	482.2	2124	2155	2782	1104.0	512.1	2156	2189	2756
1026.0	482.9	2125	2156	2711	1106.0	512.8	2157	2190	2661
1028.0	483.7	2125	2157	2719	1108.0	513.6	2157	2191	2683
1030.0	484.3	2127	2158	2977	1110.0	514.3	2158	2192	2703
1032.0	485.1	2127	2159	2646	1112.0	515.0	2159	2193	2809
1034.0	485.9	2128	2160	2530	1114.0	515.8	2160	2193	2657
1036.0	486.7	2129	2161	2605	1116.0	516.5	2161	2194	2723
1038.0	487.4	2130	2161	2587	1118.0	517.2	2161	2195	2751
1040.0	488.2	2130	2162	2598	1120.0	518.0	2162	2196	2600

TABLE 1.

Time-Depth curve values

Page 8.

Well : BALLANGEICH #1

Client : PHOENIX OIL AND GAS N.L.

Survey units : METRES

Datum : 100.0

Calibrated sonic interval velocities used from 176.0 to 1230.0

Datum Depth	One-way time(ms)	-----VELOCITIES-----			Datum Depth	One-way time(ms)	-----VELOCITIES-----		
		Average	RMS	Interval			Average	RMS	Interval
1122.0	518.8	2163	2196	2662	1176.0	538.0	2186	2221	2746
1124.0	519.5	2164	2197	2601	1178.0	538.8	2187	2222	2790
1126.0	520.3	2164	2198	2676	1180.0	539.5	2187	2223	2828
1128.0	521.0	2165	2199	2766	1182.0	540.2	2188	2224	2793
1130.0	521.7	2166	2200	2869	1184.0	540.9	2189	2225	2782
1132.0	522.4	2167	2201	2852	1186.0	541.6	2190	2226	2788
1134.0	523.1	2168	2202	2708	1188.0	542.3	2191	2226	2802
1136.0	523.9	2168	2202	2654	1190.0	543.0	2191	2227	2796
1138.0	524.6	2169	2203	2666	1192.0	543.8	2192	2228	2759
1140.0	525.4	2170	2204	2687	1194.0	544.5	2193	2229	2676
1142.0	526.1	2171	2205	2945	1196.0	545.2	2194	2230	2750
1144.0	526.6	2172	2207	3568	1198.0	546.0	2194	2230	2790
1146.0	527.4	2173	2207	2564	1200.0	546.7	2195	2231	2638
1148.0	528.2	2173	2208	2484	1202.0	547.5	2196	2232	2699
1150.0	529.0	2174	2208	2605	1204.0	548.2	2196	2233	2834
1152.0	529.7	2175	2209	2747	1206.0	548.9	2197	2233	2720
1154.0	530.4	2176	2210	2842	1208.0	549.7	2198	2234	2646
1156.0	531.1	2176	2211	2756	1210.0	550.4	2198	2234	2545
1158.0	531.9	2177	2212	2684	1212.0	551.2	2199	2235	2556
1160.0	532.6	2178	2213	2715	1214.0	552.1	2199	2235	2299
1162.0	533.3	2179	2214	2881	1216.0	553.0	2199	2235	2284
1164.0	534.0	2180	2215	2938	1218.0	553.8	2199	2235	2522
1166.0	534.6	2181	2216	3088	1220.0	554.4	2200	2236	2938
1168.0	535.3	2182	2217	3009	1222.0	555.1	2201	2236	2970
1170.0	535.9	2183	2219	3207	1224.0	555.7	2203	2239	3464
1172.0	536.6	2184	2220	2921	1226.0	556.2	2204	2242	4262
1174.0	537.3	2185	2220	2847	1228.0	556.6	2206	2244	4380

PE905667

This is an enclosure indicator page.
The enclosure PE905667 is enclosed within the
container PE905662 at this location in this
document.

The enclosure PE905667 has the following characteristics:

ITEM_BARCODE = PE905667
CONTAINER_BARCODE = PE905662
NAME = Velocity Trace Playouts
BASIN = OTWAY
PERMIT = PEP101
TYPE = WELL
SUBTYPE = VELOCITY_CHART
DESCRIPTION = Ballangeich-1 Velocity Raw Check Shot
Trace Playouts, figures 4.1 & 4.2 from
Well Velocity Survey Report
REMARKS =
DATE_CREATED =
DATE_RECEIVED = 21/09/87
W_NO = W965
WELL_NAME = BALLANGEICH-1
CONTRACTOR =
CLIENT_OP_CO = PHOENIX OIL & GAS N.L.

(Inserted by DNRE - Vic Govt Mines Dept)

PE905668

This is an enclosure indicator page.
The enclosure PE905668 is enclosed within the
container PE905662 at this location in this
document.

The enclosure PE905668 has the following characteristics:

ITEM_BARCODE = PE905668
CONTAINER_BARCODE = PE905662
NAME = Velocity Trace Playouts
BASIN = OTWAY
PERMIT = PEP101
TYPE = WELL
SUBTYPE = VELOCITY_CHART
DESCRIPTION = Ballangeich-1 Velocity Raw Check Shot
Trace Playouts, figure 4.3 from Well
Velocity Survey Report
REMARKS =
DATE_CREATED =
DATE_RECEIVED = 21/09/87
W_NO = W965
WELL_NAME = BALLANGEICH-1
CONTRACTOR =
CLIENT_OP_CO = PHOENIX OIL & GAS N.L.

(Inserted by DNRE - Vic Govt Mines Dept)

PE905669 #

This is an enclosure indicator page.
The enclosure PE905669 is enclosed within the
container PE905662 at this location in this
document.

The enclosure PE905669 has the following characteristics:

ITEM_BARCODE = PE905669
CONTAINER_BARCODE = PE905662
NAME = Velocity Trace Playouts
BASIN = OTWAY
PERMIT = PEP101
TYPE = WELL
SUBTYPE = VELOCITY_CHART
DESCRIPTION = Ballangeich-1 Velocity Raw Check Shot
Trace Playouts, figures 4.5 & 4.6 from
Well Velocity Survey Report
REMARKS =
DATE_CREATED =
DATE_RECEIVED = 21/09/87
W_NO = W965
WELL_NAME = BALLANGEICH-1
CONTRACTOR =
CLIENT_OP_CO = PHOENIX OIL & GAS N.L.

(Inserted by DNRE - Vic Govt Mines Dept)

PE905670

This is an enclosure indicator page.
The enclosure PE905670 is enclosed within the
container PE905662 at this location in this
document.

The enclosure PE905670 has the following characteristics:

ITEM_BARCODE = PE905670
CONTAINER_BARCODE = PE905662
NAME = Velocity Trace Playouts
BASIN = OTWAY
PERMIT = PEP101
TYPE = WELL
SUBTYPE = VELOCITY_CHART
DESCRIPTION = Ballangeich-1 Velocity Raw Check Shot
Trace Playouts, figures 4.7 & 4.8 from
Well Velocity Survey Report
REMARKS =
DATE_CREATED =
DATE_RECEIVED = 21/09/87
W_NO = W965
WELL_NAME = BALLANGEICH-1
CONTRACTOR =
CLIENT_OP_CO = PHOENIX OIL & GAS N.L.

(Inserted by DNRE - Vic Govt Mines Dept)

PE905671

This is an enclosure indicator page.
The enclosure PE905671 is enclosed within the
container PE905662 at this location in this
document.

The enclosure PE905671 has the following characteristics:

ITEM_BARCODE = PE905671
CONTAINER_BARCODE = PE905662
NAME = Velocity Trace Playouts
BASIN = OTWAY
PERMIT = PEP101
TYPE = WELL
SUBTYPE = VELOCITY_CHART
DESCRIPTION = Ballangeich-1 Velocity Raw Check Shot
Trace Playouts, figures 4.9 & 4.10 from
Well Velocity Survey Report
REMARKS =
DATE_CREATED =
DATE_RECEIVED = 21/09/87
W_NO = W965
WELL_NAME = BALLANGEICH-1
CONTRACTOR =
CLIENT_OP_CO = PHOENIX OIL & GAS N.L.

(Inserted by DNRE - Vic Govt Mines Dept)

PE905672 #

This is an enclosure indicator page.
The enclosure PE905672 is enclosed within the
container PE905662 at this location in this
document.

The enclosure PE905672 has the following characteristics:

ITEM_BARCODE = PE905672
CONTAINER_BARCODE = PE905662
NAME = Velocity Trace Playouts
BASIN = OTWAY
PERMIT = PEP101
TYPE = WELL
SUBTYPE = VELOCITY_CHART
DESCRIPTION = Ballangeich-1 Velocity Raw Check Shot
Trace Playouts, figures 4.11 & 4.12
from Well Velocity Survey Report
REMARKS =
DATE_CREATED =
DATE_RECEIVED = 21/09/87
W_NO = W965
WELL_NAME = BALLANGEICH-1
CONTRACTOR =
CLIENT_OP_CO = PHOENIX OIL & GAS N.L.

(Inserted by DNRE - Vic Govt Mines Dept)

PE905673 #

This is an enclosure indicator page.
The enclosure PE905673 is enclosed within the
container PE905662 at this location in this
document.

The enclosure PE905673 has the following characteristics:

ITEM_BARCODE = PE905673
CONTAINER_BARCODE = PE905662
NAME = Velocity Trace Playouts
BASIN = OTWAY
PERMIT = PEP101
TYPE = WELL
SUBTYPE = VELOCITY_CHART
DESCRIPTION = Ballangeich-1 Velocity Raw Check Shot
Trace Playouts, figures 4.13 & 4.14
from Well Velocity Survey Report
REMARKS =
DATE_CREATED =
DATE_RECEIVED = 21/09/87
W_NO = W965
WELL_NAME = BALLANGEICH-1
CONTRACTOR =
CLIENT_OP_CO = PHOENIX OIL & GAS N.L.

(Inserted by DNRE - Vic Govt Mines Dept)

PE905674 7

This is an enclosure indicator page.
The enclosure PE905674 is enclosed within the
container PE905662 at this location in this
document.

The enclosure PE905674 has the following characteristics:

ITEM_BARCODE = PE905674
CONTAINER_BARCODE = PE905662
NAME = Velocity Trace Playouts
BASIN = OTWAY
PERMIT = PEP101
TYPE = WELL
SUBTYPE = VELOCITY_CHART
DESCRIPTION = Ballangeich-1 Velocity Raw Check Shot
Trace Playouts, figures 4.15 & 4.16
from Well Velocity Survey Report
REMARKS =
DATE_CREATED =
DATE_RECEIVED = 21/09/87
W_NO = W965
WELL_NAME = BALLANGEICH-1
CONTRACTOR =
CLIENT_OP_CO = PHOENIX OIL & GAS N.L.

(Inserted by DNRE - Vic Govt Mines Dept)

PE905675 /

This is an enclosure indicator page.
The enclosure PE905675 is enclosed within the
container PE905662 at this location in this
document.

The enclosure PE905675 has the following characteristics:

ITEM_BARCODE = PE905675
CONTAINER_BARCODE = PE905662
NAME = Velocity Trace Playouts
BASIN = OTWAY
PERMIT = PEP101
TYPE = WELL
SUBTYPE = VELOCITY_CHART
DESCRIPTION = Ballangeich-1 Velocity Raw Check Shot
Trace Playouts, figures 4.17 from Well
Velocity Survey Report
REMARKS =
DATE_CREATED =
DATE_RECEIVED = 21/09/87
W_NO = W965
WELL_NAME = BALLANGEICH-1
CONTRACTOR =
CLIENT_OP_CO = PHOENIX OIL & GAS N.L.

(Inserted by DNRE - Vic Govt Mines Dept)

PE905676 7

This is an enclosure indicator page.
The enclosure PE905676 is enclosed within the
container PE905662 at this location in this
document.

The enclosure PE905676 has the following characteristics:

ITEM_BARCODE = PE905676
CONTAINER_BARCODE = PE905662
NAME = Velocity Trace Playouts
BASIN = OTWAY
PERMIT = PEP101
TYPE = WELL
SUBTYPE = VELOCITY_CHART
DESCRIPTION = Ballangeich-1 Velocity Raw Check Shot
Trace Playouts, figure 4.4 from Well
Velocity Survey Report
REMARKS =
DATE_CREATED =
DATE_RECEIVED = 21/09/87
W_NO = W965
WELL_NAME = BALLANGEICH-1
CONTRACTOR =
CLIENT_OP_CO = PHOENIX OIL & GAS N.L.

(Inserted by DNRE - Vic Govt Mines Dept)

PE905666

This is an enclosure indicator page.
The enclosure PE905666 is enclosed within the
container PE905662 at this location in this
document.

The enclosure PE905666 has the following characteristics:

ITEM_BARCODE = PE905666
CONTAINER_BARCODE = PE905662
NAME = Seismic Section & Time-Depth Points
BASIN = OTWAY
PERMIT = PEP101
TYPE = SEISMIC
SUBTYPE = SECTION
DESCRIPTION = Ballangeich-1 Seismic Section &
Time-Depth Curve, figure 5 from Well
Velocity Survey Report
REMARKS =
DATE_CREATED = 27/07/87
DATE_RECEIVED = 21/09/87
W_NO = W965
WELL_NAME = BALLANGEICH-1
CONTRACTOR =
CLIENT_OP_CO = PHOENIX OIL & GAS N.L.

(Inserted by DNRE - Vic Govt Mines Dept)

PE604039

This is an enclosure indicator page.
The enclosure PE604039 is enclosed within the
container PE905662 at this location in this
document.

The enclosure PE604039 has the following characteristics:

ITEM_BARCODE = PE604039
CONTAINER_BARCODE = PE905662
NAME = Sonic Log
BASIN = OTWAY
PERMIT = PEP101
TYPE = WELL
SUBTYPE = WELL_LOG
DESCRIPTION = Ballangeich-1 B.H.C. Sonic Log from
Well Velocity Survey Report
REMARKS =
DATE_CREATED = 27/07/87
DATE_RECEIVED = 21/09/87
W_NO = W965
WELL_NAME = BALLANGEICH-1
CONTRACTOR = GEARHART AUSTRALIA PTY. LTD.
CLIENT_OP_CO = PHOENIX OIL & GAS N.L.

(Inserted by DNRE - Vic Govt Mines Dept)

PE604038

This is an enclosure indicator page.
The enclosure PE604038 is enclosed within the
container PE905662 at this location in this
document.

The enclosure PE604038 has the following characteristics:

ITEM_BARCODE = PE604038
CONTAINER_BARCODE = PE905662
NAME = Laterlog
BASIN = OTWAY
PERMIT = PEP101
TYPE = WELL
SUBTYPE = WELL_LOG
DESCRIPTION = Ballangeich-1 Dual Laterlog Micro
Spherically Focused Log from Well
Velocity Survey Report
REMARKS =
DATE_CREATED = 27/07/87
DATE_RECEIVED = 21/09/87
W_NO = W965
WELL_NAME = BALLANGEICH-1
CONTRACTOR = GEARHART AUSTRALIA PTY. LTD.
CLIENT_OP_CO = PHOENIX OIL & GAS N.L.

(Inserted by DNRE - Vic Govt Mines Dept)