

W804

OIL and GAS DIVISION

WCR.

KYARRA No.1A

21 OCT 1983

VELOCITY SURVEY DATA

Attachment 2

~~APPENDIX~~

ATTACHMENT TO

WCR FOR KYARRA-1A (W804)

DEPT. NAT. RES & ENV



PE906074

ATTACHMENT TO WCR
KYARRA-1A
(W804)

VELOCITY SURVEY
DATA

SEISMOGRAPH SERVICE LIMITED
WELL GEOPHONE SURVEY FIELD REPORT
AIR GUN

Page 1 of 13

WELL NAME KYARRA NO. 1A COUNTRY AUSTRALIA (OFF SHORE) JOB NO. Q-75
 CLIENT Australian Aquitaine WELL LOCATION 38° 40' 52.54" S DATE OF SURVEY 25 - 2 - 83
Petroleum Pty Ltd. 147° 11' 12.31" E RIG NAME & HEADING Ocean Digger

WELL GEOPHONE REF. LEVEL RT ELEVATION OF REF. LEVEL 30.2m GUN OFFSET DISTANCE 51m
 TYPE GEOPHONE LT GCH 100 ELEVATION OF SEA BED -43.5m GUN DEPTH 4m
 TYPE INSTRUMENT DCA/DCR/R4A ELEVATION OF GROUND ///// GUN HYDROPHONE DEPTH 7m
 GUN CHAMBER SIZE 80 cu in DEPTH CASING & SIZE 969m @ 13 3/8" GUN DIRECTION _____
 EQUIPMENT NO. Q4 SAMPLE INTERVAL 2ms MULTIPLEX TIME 5s of data
 CASSETTES NOT REWOUND NO. OF CASSETTES 6

Tape Counter	Record No.	Depth Well Geophone M or	No. of Shots	Time Recorded Hours	T ms	GAIN dB		Filter Setting High Cut Hz.	Gun Pressure p.s.i.	REMARKS
						Record	DHA			
101-102	1	255	2	10:14		12	ON	55	1500	
103-105	2	945	3	10:42		30	"	"	"	
106-109	3	1005	4	10:53		39	"	"	"	
110-113	4	1275	4	11:06		51	"	"	"	
114-116	5	1245	3	11:10		48	"	"	"	
117-121	6	1215	5	11:15		39/42	"	"	"	
122-201	7	1185	3	11:20		42	"	"	"	
202-204	8	1155	3	11:30		42/39	"	"	"	
205-207	9	1125	3	11:35		39	"	"	"	
208-210	10	1095	3			39	"	"	"	
211-213	11	1065	3			39	"	"	"	
214-216	12	1005	3			39/42	"	"	"	
217-219	13	945	3			39	"	"	"	
220-222	14	915	3			36	"	"	"	
223-302	15	885	3	12:00		"	"	"	"	
303-305	16	855	3			"	"	"	"	
306-308	17	825	3			"	"	"	"	
308-312	18	795	5	12:15		"	"	"	"	

WELL SEISMIC DATUM MSL DEPTH WEATHERING // ELEVATION VELOCITY // WEATHERING VELOCITY //
 ELEVATION REF. DATUM /// DIRECTION GUN HYDROPHONE BREAKS DOWN
 DIRECTION WELL PHONE BREAKS UP OPERATORS GARMSTON/STOKES
 ADDRESS DATA SHOULD BE SENT _____

REMARKS _____

SEISMOGRAPH SERVICE LIMITED
WELL GEOPHONE SURVEY FIELD REPORT
AIR GUN

WELL NAME _____ COUNTRY _____ JOB NO. _____
 CLIENT _____ WELL LOCATION _____ DATE OF SURVEY _____
 _____ RIG NAME & HEADING _____

WELL GEOPHONE REF. LEVEL _____ ELEVATION OF REF. LEVEL _____ GUN OFFSET DISTANCE _____
 TYPE GEOPHONE _____ ELEVATION OF SEA BED _____ GUN DEPTH _____
 TYPE INSTRUMENT _____ ELEVATION OF GROUND _____ GUN HYDROPHONE DEPTH _____
 GUN CHAMBER SIZE _____ DEPTH CASING & SIZE _____ GUN DIRECTION _____
 EQUIPMENT NO. _____ SAMPLE INTERVAL _____ MULTIPLEX TIME _____
 CASSETTES NOT REWOUND NO. OF CASSETTES _____

Tape Counter	Record No.	Depth Well Geophone M	No. of Shots	Time Recorded Hours	T ms	GAIN dB		Filter Setting High Cut Hz.	Gun Pressure p.s.i.	REMARKS
						Record	DHA			
313-315	19	765	3	12:20		33	ON	55	1500	
316-321	20	735	6			"	"	"	"	
322-402	21	705	4	12:35		30/33	"	"	"	
403-407	22	675	5			30	"	"	"	
408-410	23	645	3			27	"	"	"	
411-413	24	615	3			24	"	"	"	
414-416	25	585	3			21	"	"	"	
417-419	26	555	3	13:07		21/18	"	"	"	
420-422	27	525	3			18	"	"	"	
501-503	28	495	3			15	"	"	"	
504-506	29	465	3			"	"	"	"	
507-509	30	435	3			"	"	"	"	
510-512	31	405	3			"	"	"	"	
513-515	32	375	3			"	"	"	"	
516-518	33	345	3	13:22		"	"	"	"	
519-521	34	315	3			12	"	"	"	
601-603	35	285	3			"	"	"	"	
604-606	36	255	3	13:29		"	"	"	"	

WELL SEISMIC DATUM _____ DEPTH WEATHERING _____ ELEVATION VELOCITY _____ WEATHERING VELOCITY _____
 ELEVATION REF. DATUM _____ DIRECTION GUN HYDROPHONE BREAKS _____
 DIRECTION WELL PHONE BREAKS _____ OPERATORS _____
 ADDRESS DATA SHOULD BE SENT _____

REMARKS _____



SEISMOGRAPH SERVICE (ENGLAND) LTD
WELL SURVEY DIVISION

COMPANY: AUSTRALIAN AQUITAINE PETROLEUM PTY. LTD.

WELL: KYARRA NO.1A

LISTING OF : TWO-WAY TRAVEL TIME IN SECONDS BELOW DATUM OF MEAN SEA LEVEL

VERTICAL DEPTH IN METRES BELOW DATUM OF MEAN SEA LEVEL

VELOCITIES IN M/SEC

REFLECTION COEFFICIENTS

TWO-WAY TRANSMISSION LOSS

ELEVATION OF RT AT 30.2 METRES ABOVE DATUM OF MEAN SEA LEVEL

TIMES START AT TOP OF VELOCITY LOG AT 0.2183 SECONDS TWO-WAY TIME

TIME INCREMENT IS 0.0020 SECONDS TWO-WAY TIME

TIME	DEPTH	INT.VEL.	AVG.VEL.	RMS.VEL.	REF.CFT.	TRN.LOSS
0.2183	193.8	1775.4	1775.4	1775.4		
0.2203	195.8	2054.1	1778.0	1778.2	0.0728	0.0053
0.2223	197.9	2049.0	1780.4	1780.8	-0.0013	0.0053
0.2243	199.9	2047.4	1782.8	1783.3	-0.0004	0.0053
0.2263	202.0	2049.2	1785.2	1785.9	0.0005	0.0053
0.2283	204.0	2020.3	1787.2	1788.1	-0.0071	0.0053
0.2303	205.8	1845.4	1787.7	1788.6	-0.0452	0.0074
0.2323	207.8	1966.6	1789.3	1790.2	0.0318	0.0084
0.2343	209.8	1978.0	1790.9	1791.9	0.0029	0.0084
0.2363	211.8	2056.5	1793.1	1794.3	0.0195	0.0088
0.2383	213.8	2004.5	1794.9	1796.1	-0.0128	0.0089
0.2403	215.9	2058.5	1797.1	1798.5	0.0133	0.0091
0.2423	218.0	2067.8	1799.3	1800.9	0.0022	0.0091
0.2443	220.1	2079.6	1801.6	1803.3	0.0029	0.0091
0.2463	222.1	2054.4	1803.7	1805.5	-0.0061	0.0092
0.2483	224.1	2018.0	1805.4	1807.3	-0.0089	0.0092
0.2503	226.2	2083.5	1807.6	1809.7	0.0160	0.0095
0.2523	228.4	2155.8	1810.4	1812.7	0.0171	0.0098
0.2543	230.4	2076.9	1812.5	1814.9	-0.0186	0.0101
0.2563	232.5	2082.0	1814.6	1817.2	0.0012	0.0101
0.2583	234.6	2100.5	1816.8	1819.5	0.0044	0.0101
0.2603	236.7	2124.8	1819.2	1822.1	0.0058	0.0102
0.2623	238.8	2076.0	1821.1	1824.1	-0.0116	0.0103
0.2643	240.9	2071.0	1823.0	1826.1	-0.0012	0.0103
0.2663	243.1	2165.4	1825.6	1828.9	0.0223	0.0108
0.2683	245.2	2123.0	1827.8	1831.3	-0.0099	0.0109
0.2703	247.3	2142.7	1830.1	1833.8	0.0046	0.0109
0.2723	249.5	2130.3	1832.3	1836.1	-0.0029	0.0109
0.2743	251.6	2143.4	1834.6	1838.5	0.0031	0.0109
0.2763	253.7	2139.8	1836.8	1840.9	-0.0008	0.0109
0.2783	255.9	2138.3	1839.0	1843.2	-0.0004	0.0109
0.2803	258.0	2151.7	1841.2	1845.6	0.0031	0.0109
0.2823	260.1	2111.0	1843.1	1847.6	-0.0095	0.0110
0.2843	262.3	2166.3	1845.4	1850.0	0.0129	0.0112
0.2863	264.5	2191.8	1847.8	1852.7	0.0058	0.0112
0.2883	266.7	2196.7	1850.2	1855.3	0.0011	0.0112
0.2903	268.9	2169.3	1852.4	1857.6	-0.0063	0.0113
0.2923	271.0	2148.6	1854.5	1859.8	-0.0048	0.0113
0.2943	273.2	2185.5	1856.7	1862.2	0.0085	0.0114
0.2963	275.4	2184.5	1858.9	1864.5	-0.0002	0.0114
0.2983	277.5	2164.4	1861.0	1866.7	-0.0046	0.0114
0.3003	279.7	2133.8	1862.8	1868.6	-0.0071	0.0114
0.3023	281.8	2130.8	1864.6	1870.5	-0.0007	0.0114
0.3043	284.0	2169.5	1866.6	1872.6	0.0090	0.0115
0.3063	286.2	2201.1	1868.7	1874.9	0.0072	0.0116
0.3083	288.4	2174.6	1870.7	1877.0	-0.0061	0.0116
0.3103	290.6	2196.3	1872.8	1879.2	0.0050	0.0116
0.3123	292.7	2193.4	1874.9	1881.4	-0.0007	0.0116
0.3143	294.9	2187.2	1876.9	1883.5	-0.0014	0.0116
0.3163	297.1	2179.6	1878.8	1885.5	-0.0017	0.0116
0.3183	299.3	2167.7	1880.6	1887.4	-0.0027	0.0116
0.3203	301.5	2185.6	1882.5	1889.4	0.0041	0.0117
0.3223	303.6	2147.5	1884.1	1891.2	-0.0088	0.0117
0.3243	305.8	2233.8	1886.3	1893.5	0.0197	0.0121
0.3263	308.1	2204.6	1888.3	1895.5	-0.0066	0.0122
0.3283	310.2	2187.9	1890.1	1897.4	-0.0038	0.0122
0.3303	312.4	2193.5	1891.9	1899.4	0.0013	0.0122
0.3323	314.7	2249.6	1894.1	1901.7	0.0126	0.0123

TIME	DEPTH	INT.VEL.	AVG.VEL.	RMS.VEL.	REF.CFT.	TRN.LOSS
0.3343	317.0	2339.6	1896.7	1904.6	0.0196	0.0127
0.3363	319.4	2383.1	1899.6	1907.8	0.0092	0.0128
0.3383	321.7	2335.5	1902.2	1910.6	-0.0101	0.0129
0.3403	324.1	2340.1	1904.8	1913.4	0.0010	0.0129
0.3423	326.3	2248.0	1906.8	1915.5	-0.0201	0.0133
0.3443	328.7	2375.0	1909.5	1918.5	0.0275	0.0140
0.3463	331.1	2362.9	1912.1	1921.4	-0.0025	0.0141
0.3483	333.5	2415.3	1915.0	1924.6	0.0110	0.0142
0.3503	335.9	2418.7	1917.9	1927.8	0.0007	0.0142
0.3523	338.3	2437.1	1920.8	1931.0	0.0038	0.0142
0.3543	340.8	2440.7	1923.8	1934.3	0.0007	0.0142
0.3563	343.1	2312.5	1926.0	1936.6	-0.0270	0.0149
0.3583	345.5	2425.3	1928.7	1939.7	0.0238	0.0155
0.3603	347.9	2382.9	1931.3	1942.4	-0.0088	0.0155
0.3623	350.3	2438.4	1934.1	1945.5	0.0115	0.0157
0.3643	352.8	2452.9	1936.9	1948.7	0.0030	0.0157
0.3663	355.2	2426.0	1939.6	1951.6	-0.0055	0.0157
0.3683	357.7	2460.6	1942.4	1954.7	0.0071	0.0158
0.3703	360.1	2430.7	1945.0	1957.6	-0.0061	0.0158
0.3723	362.6	2494.2	1948.0	1960.9	0.0129	0.0160
0.3743	365.1	2480.4	1950.8	1964.0	-0.0028	0.0160
0.3763	367.6	2493.8	1953.7	1967.2	0.0027	0.0160
0.3783	370.0	2450.8	1956.4	1970.1	-0.0087	0.0160
0.3803	372.5	2507.0	1959.3	1973.3	0.0113	0.0162
0.3823	375.1	2519.6	1962.2	1976.5	0.0025	0.0162
0.3843	377.6	2578.3	1965.4	1980.1	0.0115	0.0163
0.3863	380.2	2580.3	1968.6	1983.7	0.0004	0.0163
0.3883	382.8	2589.8	1971.8	1987.3	0.0018	0.0163
0.3903	385.4	2615.8	1975.1	1991.0	0.0050	0.0163
0.3923	388.0	2599.1	1978.3	1994.6	-0.0032	0.0163
0.3943	390.6	2566.3	1981.2	1997.9	-0.0063	0.0164
0.3963	393.1	2501.8	1983.9	2000.8	-0.0127	0.0165
0.3983	395.7	2580.0	1986.9	2004.1	0.0154	0.0168
0.4003	398.2	2580.4	1989.8	2007.4	0.0001	0.0168
0.4023	400.8	2558.2	1992.7	2010.5	-0.0043	0.0168
0.4043	403.4	2557.6	1995.4	2013.6	-0.0001	0.0168
0.4063	406.0	2639.1	1998.6	2017.1	0.0157	0.0170
0.4083	408.8	2752.8	2002.3	2021.4	0.0211	0.0175
0.4103	411.4	2646.5	2005.5	2024.9	-0.0197	0.0179
0.4123	414.1	2728.8	2009.0	2028.9	0.0153	0.0181
0.4143	416.9	2720.7	2012.4	2032.8	-0.0015	0.0181
0.4163	419.6	2732.2	2015.9	2036.7	0.0021	0.0181
0.4183	422.3	2761.0	2019.4	2040.8	0.0052	0.0181
0.4203	425.0	2694.9	2022.6	2044.4	-0.0121	0.0183
0.4223	427.7	2686.2	2025.8	2047.9	-0.0016	0.0183
0.4243	430.4	2652.5	2028.7	2051.2	-0.0063	0.0183
0.4263	433.1	2715.3	2032.0	2054.8	0.0117	0.0184
0.4283	435.8	2656.7	2034.9	2058.0	-0.0109	0.0186
0.4303	438.4	2630.2	2037.6	2061.1	-0.0050	0.0186
0.4323	440.8	2428.2	2039.4	2062.9	-0.0399	0.0201
0.4343	443.2	2437.8	2041.3	2064.8	0.0020	0.0202
0.4363	445.5	2268.7	2042.3	2065.8	-0.0359	0.0214
0.4383	447.8	2309.0	2043.5	2067.0	0.0088	0.0215
0.4403	450.1	2259.0	2044.5	2067.9	-0.0109	0.0216
0.4423	452.3	2181.5	2045.1	2068.4	-0.0174	0.0219
0.4443	454.3	2077.4	2045.3	2068.4	-0.0244	0.0225
0.4463	456.5	2142.3	2045.7	2068.8	0.0154	0.0227
0.4483	458.7	2243.6	2046.6	2069.6	0.0231	0.0232

TIME	DEPTH	INT.VEL.	AVG.VEL.	RMS.VEL.	REF.CFT.	TRN.LOSS
0.4503	461.1	2366.2	2048.0	2071.0	0.0266	0.0239
0.4523	463.7	2630.1	2050.6	2073.8	0.0528	0.0267
0.4543	466.1	2367.3	2052.0	2075.2	-0.0526	0.0293
0.4563	468.5	2426.0	2053.6	2076.9	0.0122	0.0295
0.4583	470.7	2136.8	2054.0	2077.1	-0.0634	0.0334
0.4603	472.9	2214.9	2054.7	2077.7	0.0179	0.0337
0.4623	475.0	2108.5	2054.9	2077.9	-0.0246	0.0343
0.4643	477.1	2113.8	2055.2	2078.0	0.0012	0.0343
0.4663	479.2	2078.4	2055.3	2078.0	-0.0084	0.0344
0.4683	481.3	2085.0	2055.4	2078.1	0.0016	0.0344
0.4703	483.8	2509.2	2057.3	2080.1	0.0923	0.0426
0.4723	486.2	2483.4	2059.1	2082.0	-0.0052	0.0426
0.4743	488.5	2218.6	2059.8	2082.6	-0.0563	0.0457
0.4763	490.7	2250.4	2060.6	2083.3	0.0071	0.0457
0.4783	492.8	2035.1	2060.5	2083.1	-0.0502	0.0481
0.4803	494.9	2145.3	2060.9	2083.3	0.0264	0.0488
0.4823	497.3	2407.0	2062.3	2084.8	0.0575	0.0519
0.4843	499.7	2370.2	2063.6	2086.1	-0.0077	0.0520
0.4863	501.9	2256.2	2064.4	2086.8	-0.0246	0.0526
0.4883	504.2	2309.7	2065.4	2087.7	0.0117	0.0527
0.4903	506.5	2306.6	2066.3	2088.7	-0.0007	0.0527
0.4923	509.0	2457.0	2067.9	2090.3	0.0316	0.0536
0.4943	511.1	2114.3	2068.1	2090.4	-0.0750	0.0589
0.4963	513.6	2507.1	2069.9	2092.3	0.0850	0.0657
0.4983	516.2	2541.7	2071.8	2094.2	0.0069	0.0658
0.5003	518.6	2405.4	2073.1	2095.6	-0.0276	0.0665
0.5023	521.0	2393.6	2074.4	2096.9	-0.0024	0.0665
0.5043	523.3	2354.1	2075.5	2097.9	-0.0083	0.0666
0.5063	526.0	2644.2	2077.7	2100.4	0.0580	0.0697
0.5083	528.5	2574.8	2079.7	2102.5	-0.0133	0.0699
0.5103	531.0	2425.4	2081.1	2103.8	-0.0299	0.0707
0.5123	533.3	2365.4	2082.2	2104.9	-0.0125	0.0708
0.5143	535.7	2338.3	2083.2	2105.9	-0.0058	0.0709
0.5163	537.9	2260.3	2083.8	2106.5	-0.0170	0.0711
0.5183	540.3	2367.0	2084.9	2107.5	0.0230	0.0716
0.5203	543.0	2689.1	2087.3	2110.1	0.0637	0.0754
0.5223	545.6	2619.8	2089.3	2112.3	-0.0131	0.0756
0.5243	548.2	2574.3	2091.2	2114.2	-0.0088	0.0756
0.5263	550.6	2402.3	2092.3	2115.4	-0.0346	0.0767
0.5283	553.1	2537.4	2094.0	2117.2	0.0274	0.0774
0.5303	555.5	2406.2	2095.2	2118.3	-0.0265	0.0781
0.5323	557.8	2267.9	2095.8	2118.9	-0.0296	0.0789
0.5343	560.1	2268.2	2096.5	2119.5	0.0001	0.0789
0.5363	562.4	2354.9	2097.5	2120.4	0.0188	0.0792
0.5383	564.8	2393.5	2098.6	2121.5	0.0081	0.0793
0.5403	567.3	2475.3	2099.9	2122.9	0.0168	0.0795
0.5423	569.8	2540.4	2101.6	2124.6	0.0130	0.0797
0.5443	572.4	2530.9	2103.2	2126.2	-0.0019	0.0797
0.5463	574.8	2463.0	2104.5	2127.6	-0.0136	0.0799
0.5483	577.3	2525.5	2106.0	2129.1	0.0125	0.0800
0.5503	579.8	2435.3	2107.2	2130.3	-0.0182	0.0803
0.5523	582.2	2442.9	2108.4	2131.6	0.0016	0.0803
0.5543	584.7	2437.8	2109.6	2132.7	-0.0011	0.0803
0.5563	587.1	2416.2	2110.7	2133.8	-0.0044	0.0803
0.5583	589.3	2268.8	2111.3	2134.3	-0.0315	0.0812
0.5603	591.7	2318.0	2112.0	2135.0	0.0107	0.0814
0.5623	593.9	2252.7	2112.5	2135.4	-0.0143	0.0815
0.5643	596.4	2513.6	2113.9	2136.9	0.0547	0.0843

TIME	DEPTH	INT.VEL.	AVG.VEL.	RMS.VEL.	REF.CFT.	TRN.LOSS
0.5663	598.9	2480.9	2115.2	2138.2	-0.0065	0.0843
0.5683	601.5	2603.1	2116.9	2140.0	0.0240	0.0849
0.5703	604.1	2633.5	2118.8	2141.9	0.0058	0.0849
0.5723	606.6	2492.5	2120.1	2143.3	-0.0275	0.0856
0.5743	609.1	2452.7	2121.2	2144.4	-0.0080	0.0856
0.5763	611.7	2566.0	2122.8	2146.0	0.0226	0.0861
0.5783	614.3	2663.5	2124.6	2148.0	0.0187	0.0864
0.5803	616.6	2320.1	2125.3	2148.7	-0.0689	0.0908
0.5823	619.5	2864.2	2127.8	2151.5	0.1050	0.1008
0.5843	622.2	2655.5	2129.7	2153.4	-0.0378	0.1021
0.5863	625.0	2792.9	2131.9	2156.0	0.0252	0.1026
0.5883	627.6	2681.2	2133.8	2158.0	-0.0204	0.1030
0.5903	630.2	2529.7	2135.1	2159.3	-0.0291	0.1038
0.5923	633.1	2903.5	2137.7	2162.3	0.0688	0.1080
0.5943	635.6	2493.9	2138.9	2163.5	-0.0759	0.1131
0.5963	638.3	2761.1	2141.0	2165.7	0.0509	0.1154
0.5983	641.2	2858.2	2143.4	2168.4	0.0173	0.1157
0.6003	643.8	2630.2	2145.0	2170.1	-0.0415	0.1172
0.6023	646.6	2803.3	2147.2	2172.5	0.0318	0.1181
0.6043	649.4	2814.6	2149.4	2175.0	0.0020	0.1181
0.6063	652.2	2814.1	2151.6	2177.4	-0.0001	0.1181
0.6083	655.3	3056.3	2154.6	2180.9	0.0412	0.1196
0.6103	658.2	2925.7	2157.1	2183.7	-0.0218	0.1200
0.6123	661.2	3008.6	2159.9	2186.9	0.0140	0.1202
0.6143	664.1	2871.1	2162.2	2189.5	-0.0234	0.1207
0.6163	667.2	3048.8	2165.1	2192.8	0.0300	0.1215
0.6183	669.8	2608.6	2166.5	2194.3	-0.0778	0.1268
0.6203	672.8	3068.3	2169.4	2197.7	0.0810	0.1325
0.6223	675.8	2974.8	2172.0	2200.6	-0.0155	0.1327
0.6243	678.8	2947.3	2174.5	2203.4	-0.0046	0.1328
0.6263	681.7	2924.0	2176.9	2206.1	-0.0040	0.1328
0.6283	684.9	3212.8	2180.2	2210.0	0.0471	0.1347
0.6303	687.8	2956.5	2182.7	2212.8	-0.0416	0.1362
0.6323	690.9	3053.8	2185.4	2215.9	0.0162	0.1364
0.6343	694.0	3068.1	2188.2	2219.1	0.0023	0.1364
0.6363	696.8	2836.2	2190.2	2221.4	-0.0393	0.1378
0.6383	699.9	3074.4	2193.0	2224.5	0.0403	0.1392
0.6403	702.8	2942.0	2195.3	2227.1	-0.0220	0.1396
0.6423	705.8	3002.2	2197.9	2230.0	0.0101	0.1397
0.6443	708.6	2749.2	2199.6	2231.8	-0.0440	0.1413
0.6463	711.4	2877.5	2201.7	2234.1	0.0228	0.1418
0.6483	714.4	2934.7	2203.9	2236.6	0.0098	0.1419
0.6503	717.4	2972.3	2206.3	2239.2	0.0064	0.1419
0.6523	720.2	2794.7	2208.1	2241.1	-0.0308	0.1427
0.6543	723.0	2897.3	2210.2	2243.4	0.0180	0.1430
0.6563	725.9	2857.0	2212.2	2245.5	-0.0070	0.1430
0.6583	728.8	2904.8	2214.3	2247.8	0.0083	0.1431
0.6603	731.6	2821.0	2216.1	2249.8	-0.0146	0.1433
0.6623	734.4	2810.3	2217.9	2251.7	-0.0019	0.1433
0.6643	737.3	2838.0	2219.8	2253.7	0.0049	0.1433
0.6663	740.1	2855.9	2221.7	2255.7	0.0031	0.1433
0.6683	743.0	2832.4	2223.5	2257.7	-0.0041	0.1433
0.6703	745.8	2785.9	2225.2	2259.4	-0.0083	0.1434
0.6723	748.6	2822.5	2227.0	2261.3	0.0065	0.1434
0.6743	751.4	2808.5	2228.7	2263.1	-0.0025	0.1434
0.6763	754.3	2951.9	2230.8	2265.5	0.0249	0.1439
0.6783	757.3	2927.8	2232.9	2267.7	-0.0041	0.1440
0.6803	760.2	2938.8	2235.0	2270.0	0.0019	0.1440

TIME	DEPTH	INT.VEL.	AVG.VEL.	RMS.VEL.	REF.CFT.	TRN.LOSS
0.6823	763.2	2964.6	2237.1	2272.3	0.00044	0.1440
0.6843	766.2	3068.3	2239.5	2275.1	0.0172	0.1442
0.6863	769.2	2984.4	2241.7	2277.4	-0.0139	0.1444
0.6883	772.2	2965.1	2243.8	2279.7	-0.0032	0.1444
0.6903	775.1	2919.3	2245.8	2281.9	-0.0078	0.1445
0.6923	778.0	2872.7	2247.6	2283.8	-0.0081	0.1445
0.6943	780.8	2863.0	2249.3	2285.7	-0.0017	0.1445
0.6963	783.7	2850.9	2251.1	2287.5	-0.0021	0.1445
0.6983	786.5	2800.4	2252.6	2289.1	-0.0089	0.1446
0.7003	789.3	2835.1	2254.3	2290.9	0.0062	0.1446
0.7023	792.2	2883.3	2256.1	2292.8	0.0084	0.1447
0.7043	795.0	2795.0	2257.6	2294.3	-0.0156	0.1449
0.7063	797.8	2815.3	2259.2	2296.0	0.0036	0.1449
0.7083	800.7	2848.9	2260.9	2297.7	0.0059	0.1449
0.7103	803.4	2758.5	2262.3	2299.2	-0.0161	0.1452
0.7123	806.1	2705.5	2263.5	2300.4	-0.0097	0.1452
0.7143	808.9	2731.3	2264.8	2301.7	0.0047	0.1453
0.7163	811.6	2769.8	2266.2	2303.2	0.0070	0.1453
0.7183	814.3	2622.7	2267.2	2304.1	-0.0273	0.1459
0.7203	817.0	2743.0	2268.6	2305.5	0.0224	0.1464
0.7223	819.8	2790.5	2270.0	2306.9	0.0086	0.1464
0.7243	822.2	2449.3	2270.5	2307.3	-0.0651	0.1500
0.7263	824.9	2646.5	2271.5	2308.3	0.0387	0.1513
0.7283	827.5	2615.3	2272.5	2309.2	-0.0059	0.1513
0.7303	830.1	2573.6	2273.3	2310.0	-0.0080	0.1514
0.7323	832.6	2545.3	2274.0	2310.7	-0.0055	0.1514
0.7343	835.1	2446.3	2274.5	2311.1	-0.0198	0.1518
0.7363	837.4	2326.9	2274.6	2311.1	-0.0250	0.1523
0.7383	839.8	2423.9	2275.1	2311.4	0.0204	0.1526
0.7403	842.3	2523.9	2275.7	2312.0	0.0202	0.1530
0.7423	844.7	2318.5	2275.8	2312.0	-0.0424	0.1545
0.7443	846.8	2146.9	2275.5	2311.6	-0.0384	0.1558
0.7463	849.0	2228.1	2275.4	2311.4	0.0186	0.1561
0.7483	851.2	2211.1	2275.2	2311.1	-0.0038	0.1561
0.7503	853.6	2338.5	2275.4	2311.2	0.0280	0.1567
0.7523	855.9	2293.5	2275.4	2311.2	-0.0097	0.1568
0.7543	858.3	2387.4	2275.7	2311.4	0.0201	0.1571
0.7563	860.6	2342.0	2275.9	2311.4	-0.0096	0.1572
0.7583	863.0	2360.0	2276.1	2311.6	0.0038	0.1572
0.7603	865.1	2136.5	2275.7	2311.1	-0.0497	0.1593
0.7623	867.2	2132.9	2275.4	2310.7	-0.0008	0.1593
0.7643	869.6	2368.4	2275.6	2310.8	0.0523	0.1616
0.7663	871.8	2225.4	2275.5	2310.6	-0.0311	0.1624
0.7683	874.1	2227.1	2275.4	2310.4	0.0004	0.1624
0.7703	876.2	2121.0	2275.0	2309.9	-0.0244	0.1629
0.7723	878.3	2151.8	2274.6	2309.5	0.0072	0.1630
0.7743	880.5	2179.8	2274.4	2309.2	0.0065	0.1630
0.7763	882.7	2163.6	2274.1	2308.8	-0.0037	0.1630
0.7783	884.8	2178.1	2273.9	2308.5	0.0033	0.1630
0.7803	886.9	2082.7	2273.4	2308.0	-0.0224	0.1635
0.7823	889.2	2272.1	2273.4	2307.9	0.0435	0.1650
0.7843	891.6	2422.3	2273.7	2308.2	0.0320	0.1659
0.7863	894.0	2396.1	2274.1	2308.4	-0.0054	0.1659
0.7883	896.5	2474.3	2274.6	2308.8	0.0161	0.1661
0.7903	899.0	2496.9	2275.1	2309.3	0.0045	0.1662
0.7923	901.5	2462.6	2275.6	2309.7	-0.0069	0.1662
0.7943	904.1	2613.6	2276.4	2310.5	0.0297	0.1669
0.7963	906.5	2394.7	2276.7	2310.8	-0.0437	0.1685

TIME	DEPTH	INT.VEL.	AVG.VEL.	RMS.VEL.	REF.CFT.	TRN.LOSS
0.7983	908.8	2364.8	2277.0	2310.9	-0.0063	0.1686
0.8003	911.3	2475.9	2277.5	2311.3	0.0229	0.1690
0.8023	913.8	2491.4	2278.0	2311.8	0.0031	0.1690
0.8043	916.3	2467.9	2278.5	2312.2	-0.0047	0.1690
0.8063	918.7	2419.8	2278.8	2312.5	-0.0098	0.1691
0.8083	921.1	2412.3	2279.1	2312.7	-0.0015	0.1691
0.8103	923.4	2339.6	2279.3	2312.8	-0.0153	0.1693
0.8123	925.8	2350.9	2279.5	2312.9	0.0024	0.1693
0.8143	928.1	2302.6	2279.5	2312.9	-0.0104	0.1694
0.8163	930.4	2356.6	2279.7	2313.0	0.0116	0.1695
0.8183	932.9	2457.9	2280.2	2313.3	0.0210	0.1699
0.8203	935.3	2413.2	2280.5	2313.6	-0.0092	0.1699
0.8223	937.7	2401.2	2280.8	2313.8	-0.0025	0.1699
0.8243	940.1	2377.3	2281.0	2314.0	-0.0050	0.1700
0.8263	942.3	2245.8	2280.9	2313.8	-0.0284	0.1706
0.8283	944.5	2201.7	2280.7	2313.5	-0.0099	0.1707
0.8303	946.8	2215.8	2280.6	2313.3	0.0032	0.1707
0.8323	949.0	2251.9	2280.5	2313.1	0.0081	0.1708
0.8343	951.3	2281.7	2280.5	2313.1	0.0066	0.1708
0.8363	953.6	2323.8	2280.6	2313.1	0.0091	0.1709
0.8383	955.8	2184.7	2280.4	2312.8	-0.0309	0.1717
0.8403	958.1	2279.7	2280.4	2312.7	0.0213	0.1720
0.8423	960.3	2239.2	2280.3	2312.6	-0.0090	0.1721
0.8443	962.5	2218.0	2280.1	2312.3	-0.0047	0.1721
0.8463	964.8	2244.4	2280.1	2312.2	0.0059	0.1722
0.8483	967.0	2210.5	2279.9	2311.9	-0.0076	0.1722
0.8503	969.2	2228.5	2279.8	2311.7	0.0041	0.1722
0.8523	971.5	2276.3	2279.8	2311.7	0.0106	0.1723
0.8543	973.8	2308.0	2279.8	2311.7	0.0069	0.1724
0.8563	976.0	2232.1	2279.7	2311.5	-0.0167	0.1726
0.8583	978.3	2240.6	2279.6	2311.3	0.0019	0.1726
0.8603	980.5	2257.2	2279.6	2311.2	0.0037	0.1726
0.8623	982.9	2412.5	2279.9	2311.4	0.0333	0.1735
0.8643	985.3	2383.9	2280.1	2311.6	-0.0060	0.1735
0.8663	987.9	2577.3	2280.8	2312.2	0.0390	0.1748
0.8683	990.3	2441.4	2281.2	2312.6	-0.0271	0.1754
0.8703	992.9	2527.3	2281.7	2313.1	0.0173	0.1757
0.8723	995.4	2572.6	2282.4	2313.7	0.0089	0.1757
0.8743	998.0	2574.1	2283.1	2314.3	0.0003	0.1757
0.8763	1000.6	2603.7	2283.8	2315.0	0.0057	0.1757
0.8783	1003.2	2544.0	2284.4	2315.6	-0.0116	0.1759
0.8803	1005.8	2615.9	2285.2	2316.3	0.0139	0.1760
0.8823	1008.3	2516.5	2285.7	2316.8	-0.0194	0.1763
0.8843	1010.7	2399.3	2285.9	2317.0	-0.0238	0.1768
0.8863	1013.2	2460.5	2286.3	2317.3	0.0126	0.1769
0.8883	1015.7	2493.8	2286.8	2317.7	0.0067	0.1770
0.8903	1018.1	2482.6	2287.2	2318.1	-0.0023	0.1770
0.8923	1020.6	2492.0	2287.7	2318.5	0.0019	0.1770
0.8943	1023.1	2449.7	2288.1	2318.8	-0.0085	0.1770
0.8963	1025.6	2474.6	2288.5	2319.2	0.0050	0.1770
0.8983	1028.0	2483.2	2288.9	2319.5	0.0017	0.1770
0.9003	1030.5	2497.0	2289.4	2319.9	0.0028	0.1771
0.9023	1033.0	2494.9	2289.8	2320.3	-0.0004	0.1771
0.9043	1035.5	2517.1	2290.3	2320.8	0.0044	0.1771
0.9063	1038.0	2463.8	2290.7	2321.1	-0.0107	0.1772
0.9083	1040.6	2569.9	2291.3	2321.7	0.0211	0.1775
0.9103	1043.1	2553.4	2291.9	2322.2	-0.0032	0.1775
0.9123	1045.8	2659.6	2292.7	2323.0	0.0204	0.1779

TIME	DEPTH	INT.VEL.	AVG.VEL.	RMS.VEL.	REF.CFT.	TRN.LOSS
0.9143	1048.4	2617.2	2293.4	2323.7	-0.0080	0.1779
0.9163	1050.9	2500.2	2293.9	2324.1	-0.0229	0.1784
0.9183	1053.4	2487.6	2294.3	2324.5	-0.0025	0.1784
0.9203	1055.9	2480.5	2294.7	2324.8	-0.0014	0.1784
0.9223	1058.4	2529.2	2295.2	2325.3	0.0097	0.1784
0.9243	1060.9	2515.0	2295.7	2325.7	-0.0028	0.1785
0.9263	1063.1	2196.1	2295.5	2325.5	-0.0677	0.1822
0.9283	1065.7	2581.1	2296.1	2326.0	0.0806	0.1875
0.9303	1068.3	2645.2	2296.8	2326.8	0.0123	0.1877
0.9323	1070.5	2162.4	2296.5	2326.4	-0.1004	0.1958
0.9343	1072.7	2238.7	2296.4	2326.2	0.0173	0.1961
0.9363	1075.2	2502.4	2296.9	2326.6	0.0556	0.1986
0.9383	1077.8	2525.7	2297.3	2327.1	0.0046	0.1986
0.9403	1080.4	2616.0	2298.0	2327.7	0.0176	0.1988
0.9423	1083.0	2637.6	2298.7	2328.4	0.0041	0.1989
0.9443	1085.6	2602.7	2299.4	2329.0	-0.0067	0.1989
0.9463	1088.1	2434.4	2299.7	2329.3	-0.0334	0.1998
0.9483	1090.3	2223.7	2299.5	2329.1	-0.0452	0.2014
0.9503	1092.6	2267.2	2299.4	2328.9	0.0097	0.2015
0.9523	1094.9	2306.9	2299.5	2328.9	0.0087	0.2016
0.9543	1097.2	2298.7	2299.5	2328.8	-0.0018	0.2016
0.9563	1099.3	2103.2	2299.0	2328.4	-0.0444	0.2031
0.9583	1102.0	2774.2	2300.0	2329.4	0.1376	0.2182
0.9603	1104.7	2708.5	2300.9	2330.2	-0.0120	0.2183
0.9623	1107.7	3000.5	2302.3	2331.8	0.0511	0.2204
0.9643	1110.6	2807.0	2303.4	2332.9	-0.0333	0.2212
0.9663	1113.1	2508.1	2303.8	2333.3	-0.0562	0.2237
0.9683	1115.6	2555.3	2304.3	2333.8	0.0093	0.2238
0.9703	1118.2	2584.9	2304.9	2334.3	0.0057	0.2238
0.9723	1120.8	2595.6	2305.5	2334.9	0.0021	0.2238
0.9743	1123.4	2622.8	2306.2	2335.5	0.0052	0.2238
0.9763	1126.4	2928.4	2307.4	2336.9	0.0550	0.2262
0.9783	1129.1	2799.1	2308.4	2337.9	-0.0226	0.2266
0.9803	1132.0	2878.1	2309.6	2339.2	0.0139	0.2267
0.9823	1134.2	2123.7	2309.2	2338.7	-0.1508	0.2443
0.9843	1136.4	2249.7	2309.1	2338.6	0.0288	0.2449
0.9863	1138.8	2429.0	2309.3	2338.7	0.0383	0.2460
0.9883	1141.8	2926.6	2310.6	2340.1	0.0929	0.2526
0.9903	1144.2	2466.2	2310.9	2340.3	-0.0854	0.2580
0.9923	1147.2	2943.5	2312.2	2341.7	0.0882	0.2638
0.9943	1150.1	2929.7	2313.4	2343.0	-0.0023	0.2638
0.9963	1153.3	3184.6	2315.2	2345.0	0.0417	0.2651
0.9983	1156.3	3039.3	2316.6	2346.6	-0.0233	0.2655
1.0003	1159.4	3036.2	2318.1	2348.2	-0.0005	0.2655
1.0023	1162.4	3047.8	2319.5	2349.8	0.0019	0.2655
1.0043	1165.7	3257.7	2321.4	2352.0	0.0333	0.2663
1.0063	1168.6	2937.5	2322.6	2353.3	-0.0517	0.2682
1.0083	1171.7	3086.3	2324.1	2355.0	0.0247	0.2687
1.0103	1174.7	3021.3	2325.5	2356.5	-0.0107	0.2688
1.0123	1177.6	2941.1	2326.7	2357.8	-0.0135	0.2689
1.0143	1180.6	2986.1	2328.0	2359.2	0.0076	0.2689
1.0163	1183.6	2978.8	2329.3	2360.5	-0.0012	0.2689
1.0183	1186.6	3025.8	2330.7	2362.0	0.0078	0.2690
1.0203	1189.3	2678.5	2331.4	2362.7	-0.0609	0.2717
1.0223	1192.1	2764.7	2332.2	2363.6	0.0158	0.2719
1.0243	1194.7	2667.8	2332.9	2364.2	-0.0178	0.2721
1.0263	1197.8	3003.8	2334.2	2365.6	0.0593	0.2747
1.0283	1200.5	2779.7	2335.0	2366.5	-0.0388	0.2758

TIME	DEPTH	INT.VEL.	AVG.VEL.	RMS.VEL.	REF.CFT.	TRN.LOSS
1.0303	1203.0	2499.1	2335.4	2366.7	-0.0532	0.2778
1.0323	1205.4	2385.4	2335.4	2366.8	-0.0233	0.2782
1.0343	1207.8	2348.4	2335.5	2366.7	-0.0078	0.2782
1.0363	1210.0	2252.7	2335.3	2366.5	-0.0208	0.2786
1.0383	1212.5	2507.0	2335.6	2366.8	0.0534	0.2806
1.0403	1215.0	2457.2	2335.9	2367.0	-0.0100	0.2807
1.0423	1218.7	3702.1	2338.5	2370.3	0.2021	0.3101
1.0443	1222.0	3335.1	2340.4	2372.5	-0.0521	0.3119
1.0463	1225.0	2959.4	2341.6	2373.7	-0.0597	0.3144
1.0483	1227.7	2771.8	2342.4	2374.6	-0.0327	0.3151
1.0503	1230.5	2722.7	2343.1	2375.3	-0.0089	0.3152
1.0523	1233.2	2687.4	2343.8	2375.9	-0.0065	0.3152
1.0543	1235.9	2762.6	2344.6	2376.7	0.0138	0.3153
1.0563	1238.7	2762.6	2345.4	2377.5	0.0000	0.3153
1.0583	1241.6	2894.1	2346.4	2378.6	0.0232	0.3157
1.0603	1244.5	2875.8	2347.4	2379.6	-0.0032	0.3157
1.0623	1247.5	2999.9	2348.6	2380.9	0.0211	0.3160
1.0643	1250.5	3068.4	2350.0	2382.4	0.0113	0.3161



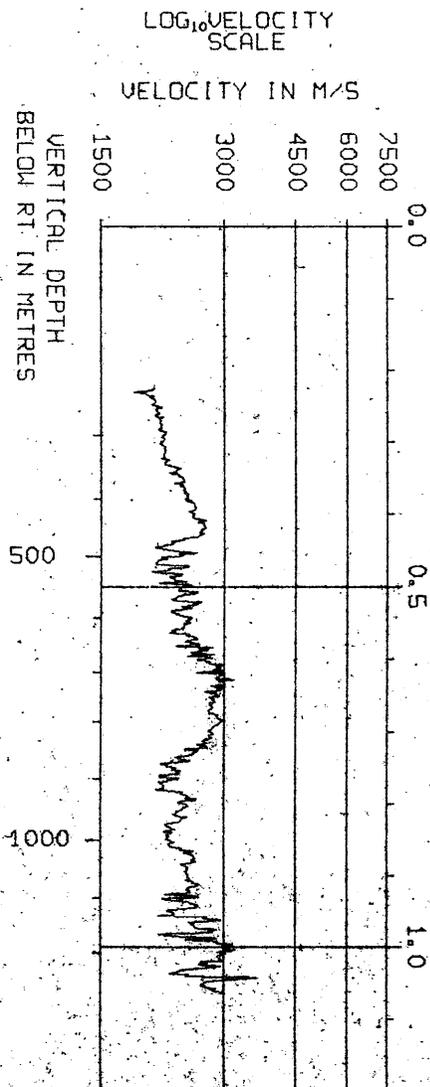
SEISMOGRAPH SERVICE (ENGLAND) LTD.
WELL SURVEY DIVISION

TWO-WAY TRAVEL TIME LOG

COMPANY: AUSTRALIAN AQUITAINE
PETROLEUM PTY. LTD.

WELL: KYARRA NO. 1A

1 S = 10. CMS
TIME IN SECONDS BELOW DATUM



PE603413

This is an enclosure indicator page.
The enclosure PE603413 is enclosed within the
container PE906074 at this location in this
document.

The enclosure PE603413 has the following characteristics:

ITEM_BARCODE = PE603413
CONTAINER_BARCODE = PE906074
NAME = Velocity Log
BASIN = GIPPSLAND
PERMIT = VIC/P17
TYPE = WELL
SUBTYPE = VELOCITY_CHART
DESCRIPTION = Velocity Log with linear time scale
(Enclosure from Velocity Survey Data
Report--attachment to WCR) for
Kyarra-1A.
REMARKS =
DATE_CREATED = 25/02/1983
DATE_RECEIVED = 21/10/1983
W_NO = W804
WELL_NAME = KYARRA-1A
CONTRACTOR = SEISMOGRAPH SERVICE LIMITED
CLIENT_OP_CO = AUSTRALIAN AQUITAINE PETROLEUM

(Inserted by DNRE - Vic Govt Mines Dept)

PE906075

This is an enclosure indicator page.
The enclosure PE906075 is enclosed within the
container PE906074 at this location in this
document.

The enclosure PE906075 has the following characteristics:

ITEM_BARCODE = PE906075
CONTAINER_BARCODE = PE906074
NAME = Air Gun Well Velocity Survey
BASIN = GIPPSLAND
PERMIT = VIC/P17
TYPE = WELL
SUBTYPE = VELOCITY_CHART
DESCRIPTION = Air Gun Well Velocity Survey for
Kyarra-1A including data and time-depth
and velocity curves.
REMARKS =
DATE_CREATED = 25/02/1983
DATE_RECEIVED = 21/10/1983
W_NO = W804
WELL_NAME = KYARRA-1A
CONTRACTOR = SEISMOGRAPH SERVICE LIMITED
CLIENT_OP_CO = AUSTRALIAN AQUITAINE PETROLEUM

(Inserted by DNRE - Vic Govt Mines Dept)