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Schlumberger

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ESSO AUSTRALIA LTD

CHECKSHOT PROCESSING REPORT

Vertical Incidence Checkshot Survey

BLACKBACK A-1A

FIELD: BLACKBACK
COUNTRY: AUSTRALIA
COORDINATES: 038 32' 31.677" S
148 33' 11.274" E
CHECKSHOT SURVEY: 23-Jun-1999
REFERENCE No:
INTERVAL: 3170-1250 m MD

Prepared by Henry Cao

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1. Acquisition Summary

The aim of the checkshot survey at Blackback A-1A was to record the vertical transit time from the surface to the downhole tool in the well at 11 different levels. To achieve this, the airgun was suspended from a boat that followed the deviated well trajectory and fired remotely over a radio link.

A single G airgun with a 150 cubic inch chamber was used as the energy source and charged from high pressure bottled nitrogen. The gun was fired at 1800 psi, 6 m below the sea level off the side of the boat.

A CSAT tool was used for downhole data acquisition. The Macha offset shooting equipment (OSE) was used to remotely fire the airgun and return the hydrophone signal to the Maxis logging unit. Pre-job checks determined a 3 msec delay in the hydrophone data transmission over the radio link, so a +3 msec correction has been applied to the raw transit times to compensate for the radio delay.

Navigation was supplied by Esso Australia Limited (see Appendix I). On average, the airgun locations were misplaced to their target positions (the surface projections of the pre-job determined downhole geophone locations) by 2.8 and 6.0 meters in easting (X) and northing (Y), respectively. The standard deviations for the misplacement are 17.2 and 19.5 metres in easting and northing.

By comparing the pre-job target source positions with the surface projections of the actual downhole geophone locations, it was found that most discrepancies between these two were within 10 m. The combined discrepancies (difference between the actual source position and the target source position and that between the target source position and the surface projection of the actual downhole sensor) can yield a maximum TWT difference of 0.3 ms from the true vertical TWT. Therefore, all the data meet the accuracy requirement.

2. Processing Sequence

1. Re-stack data using radio hydrophone channels as zero time reference. The break times from these stacks are very close (within 0.5 ms) to those shown on the field acquisition log print except for levels at 1970 and 2570 m MD where the Maxis picked earlier on the reference hydrophone channels.
2. Add 3 msec to the one way times to compensate for radio delay.
3. Enter surface gun co-ordinates, gun depth and hydrophone depth. The gun depth was 6 metres below sea level and the hydrophone depth was 4.5 metres below sea level.
4. Enter well deviation and inclination data. The true vertical depths are computed using the "minimum radius of curvature" method.
5. Compute vertical transit times based on the survey geometry. Interval velocities are derived from the vertical transit times and TVD's.

Table 1 lists the key parameters and result of the checkshot survey. Figure 1 shows the stacked Z-component data. The X and Y data were recorded but not required for checkshot processing so are not displayed. Figure 2 displays TWT and interval velocity computed from checkshot corrected transit times

Table 1 Listing of key parameters for the checkshot survey

MD (m)	R_X (m)	R_Y (m)	R_Z (m)	S_X (m)	S_Y (m)	S_Z (m)	TT (s)	TWT (s)	Velocity (m/s)
421			395			6	0.2553	0.5266	1500
1250	635353	5733095	1151	635353	5733095	6	0.5712	1.1585	2393
1370	635347	5733195	1216	635347	5733205	6	0.5956	1.2073	2663
1570	635362	5733343	1350	635362	5733343	6	0.6417	1.2993	2912
1770	635397	5733441	1519	635397	5733440	6	0.6931	1.4021	3287
1970	635459	5733471	1715	635459	5733471	6	0.7472	1.5104	3621
2170	635527	5733448	1892	635527	5733448	6	0.7986	1.6132	3443
2370	635598	5733421	2077	635597	5733421	6	0.8513	1.7186	3511
2570	635671	5733392	2261	635670	5733391	6	0.8961	1.8082	4109
2770	635742	5733360	2445	635742	5733360	6	0.9444	1.9047	3811
2970	635817	5733326	2628	635816	5733326	6	1.0075	2.0310	2898
3170	635893	5733288	2809	635893	5733288	6	1.0696	2.1553	2914

Note that MD stands for measured depth, R and S for receiver and source, and X, Y and Z are easting, northing and TVD depth from MSL respectively. TT stands for transit time, a time difference between the arrival times at the hydrophone and downhole geophone. TWT is the two way time for a seismic wave traveling from the surface at MSL to the downhole geophone, and back to the mean sea level. Velocity is the interval velocity derived between two neighboring levels.

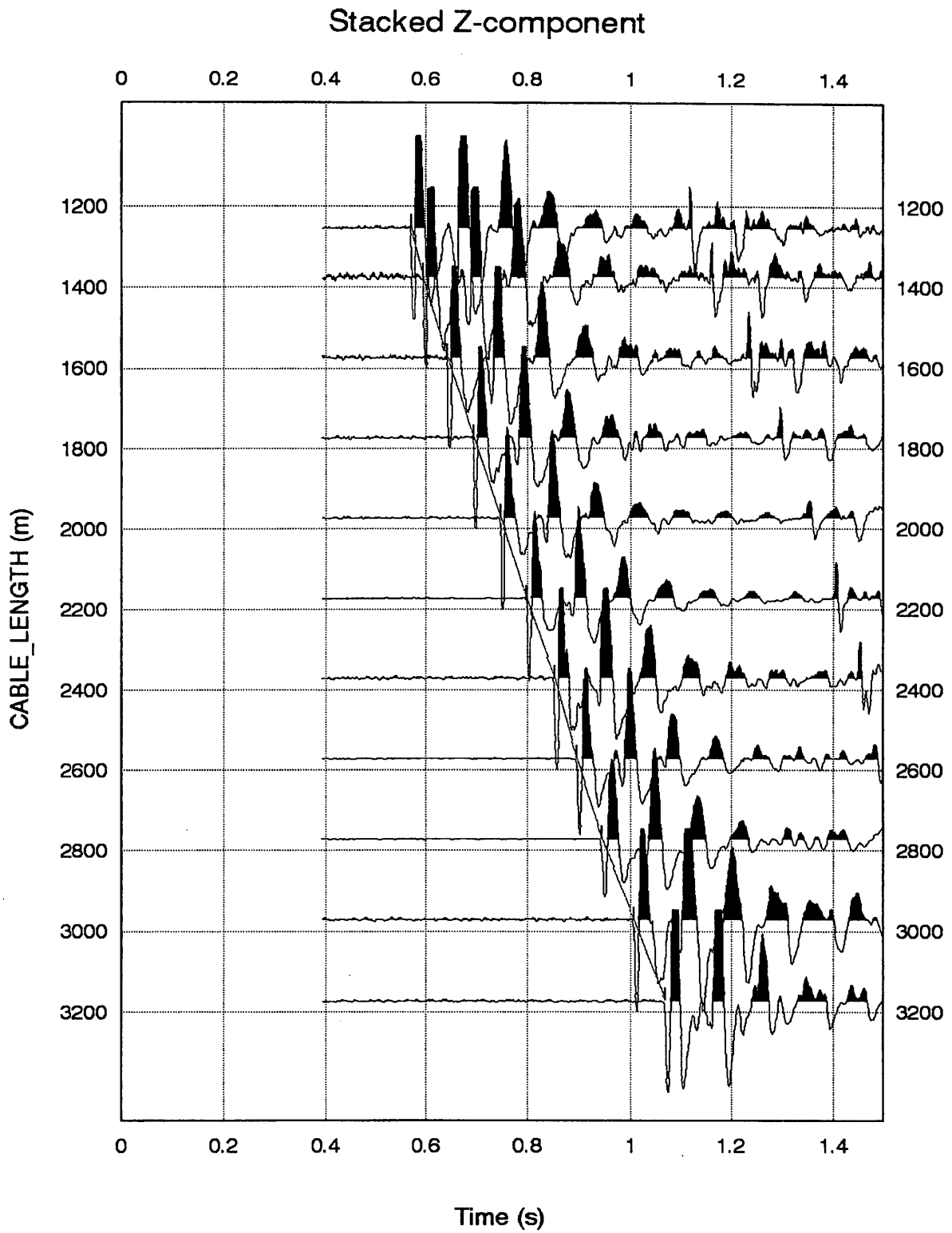
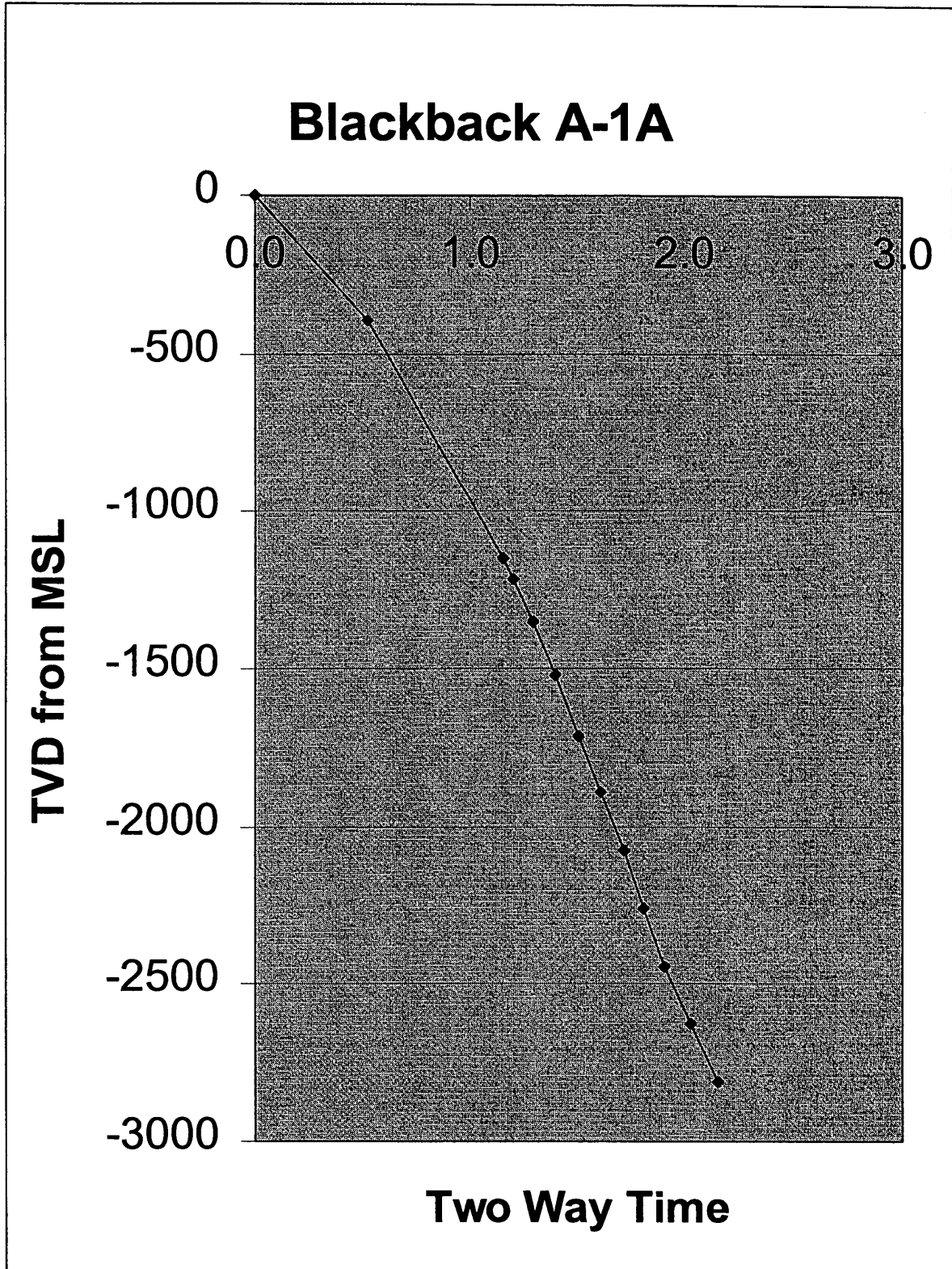
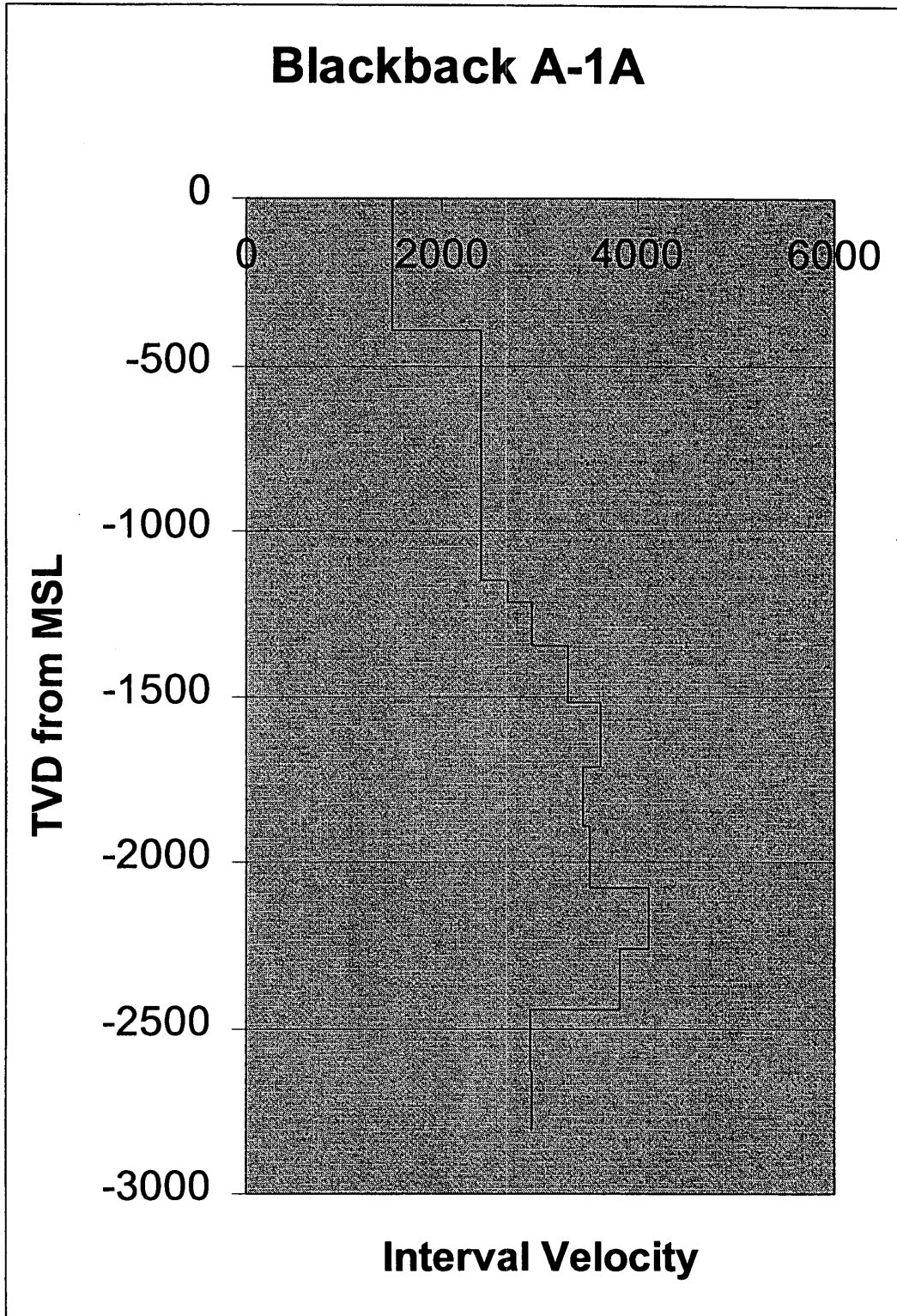


Figure 1. Stacked Z-component data, traces indexed by measured depth



(A)



(B)

Figure 2. TWT and Interval Velocity derived from corrected transit times.

A1

Navigation Data for Source Position

Acquisition Geometry Summary for Checkshot Survey at Blackback A-1A							
Wellhead Position:		635355.1E		5732873.4N			
Location		Bass Strait					
Client		Esso Australia		BB A-1A			
Navigated By		Date		23/06/1999			
MD	Shot #	Actual Easting	Northing	Target Easting	Northing	dE	dN
1250	1	635345.2	5733096.6	635353.4	5733094.6	-8.2	2.0
	2	635348.3	5733095.5	635353.4	5733094.6	-5.1	0.9
	3	635341.9	5733090.5	635353.4	5733094.6	-11.5	-4.1
	4	635339.2	5733093.8	635353.4	5733094.6	-14.2	-0.8
	5	635344.3	5733095.6	635353.4	5733094.6	-9.1	1.0
	6	635353.4	5733099.5	635353.4	5733094.6	0.0	4.9
	7	635359.7	5733097.4	635353.4	5733094.6	6.3	2.8
	8	635362.8	5733097.0	635353.4	5733094.6	9.4	2.4
	9	635365.7	5733097.0	635353.4	5733094.6	12.3	2.4
2170	10	635550.8	5733425.1	635527.2	5733448.1	23.6	-23.0
	11	635556.5	5733424.8	635527.2	5733448.1	29.3	-23.3
	12	635551.2	5733425.6	635527.2	5733448.1	24.0	-22.5
	13	635563.2	5733434.1	635527.2	5733448.1	36.0	-14.0
	14	635566.8	5733434.8	635527.2	5733448.1	39.6	-13.3
	15	635548.6	5733438.3	635527.2	5733448.1	21.4	-9.8
3170	16	635901.6	5733291.3	635893.1	5733287.8	8.5	3.5
	17	635916.4	5733303.5	635893.1	5733287.8	23.3	15.7
	18	635920.5	5733294.4	635893.1	5733287.8	27.4	6.6
	19	635925.7	5733244.5	635893.1	5733287.8	32.6	-43.3
	20	635866.5	5733197.5	635893.1	5733287.8	-26.6	-90.3
	21	635915.8	5733206.8	635893.1	5733287.8	22.7	-81.0
	22	635916.1	5733193.1	635893.1	5733287.8	23.0	-94.7
	23	635927.4	5733261.6	635893.1	5733287.8	34.3	-26.2
	24	635924.2	5733260.9	635893.1	5733287.8	31.1	-26.9
2970	25	635804.9	5733306.0	635816.0	5733326.0	-11.1	-20.0
	26	635810.4	5733318.8	635816.0	5733326.0	-5.6	-7.2
	27	635802.2	5733322.2	635816.0	5733326.0	-13.8	-3.8
	28	635803.9	5733336.3	635816.0	5733326.0	-12.1	10.3
2770	29	635733.8	5733389.7	635742.0	5733360.0	-8.2	29.7
	30	635720.8	5733388.3	635742.0	5733360.0	-21.2	28.3
	31	635714.4	5733390.6	635742.0	5733360.0	-27.6	30.6
	32	635724.3	5733369.7	635742.0	5733360.0	-17.7	9.7
	33	635728.4	5733366.8	635742.0	5733360.0	-13.6	6.8
	34	635735.8	5733356.8	635742.0	5733360.0	-6.2	-3.2
	35	635747.0	5733363.0	635742.0	5733360.0	5.0	3.0
	36	635753.0	5733353.4	635742.0	5733360.0	11.0	-6.6
2570	37	635681.2	5733374.4	635670.0	5733391.0	11.2	-16.6
	38	635682.7	5733373.9	635670.0	5733391.0	12.7	-17.1
	39	635683.4	5733375.1	635670.0	5733391.0	13.4	-15.9
	40	635683.7	5733374.3	635670.0	5733391.0	13.7	-16.7
	41	635681.6	5733370.8	635670.0	5733391.0	11.6	-20.2

	42	635683.5	5733372.3	635670.0	5733391.0	13.5	-18.7
	43	635687.6	5733371.7	635670.0	5733391.0	17.6	-19.3
	44	635685.8	5733373.6	635670.0	5733391.0	15.8	-17.4
	45	635684.4	5733384.9	635670.0	5733391.0	14.4	-6.1
2370	46	635577.4	5733418.1	635597.0	5733421.0	-19.6	-2.9
	47	635576.1	5733421.5	635597.0	5733421.0	-20.9	0.5
	48	635574.1	5733424.3	635597.0	5733421.0	-22.9	3.3
	49	635575.4	5733425.2	635597.0	5733421.0	-21.6	4.2
	50	635579.1	5733426.6	635597.0	5733421.0	-17.9	5.6
	51	635586.2	5733422.3	635597.0	5733421.0	-10.8	1.3
	52	635592.6	5733413.3	635597.0	5733421.0	-4.4	-7.7
	53	635589.9	5733407.5	635597.0	5733421.0	-7.1	-13.5
	54	635592.8	5733406.5	635597.0	5733421.0	-4.2	-14.5
2170	55	635530.6	5733439.2	635527.2	5733448.1	3.4	-8.9
	56	635529.2	5733442.0	635527.2	5733448.1	2.0	-6.1
	57	635531.9	5733451.0	635527.2	5733448.1	4.7	2.9
	58	635531.6	5733453.4	635527.2	5733448.1	4.4	5.3
	59	635528.0	5733454.4	635527.2	5733448.1	0.8	6.3
	60	635527.1	5733454.5	635527.2	5733448.1	-0.1	6.4
	61	635524.8	5733454.3	635527.2	5733448.1	-2.4	6.2
	62	635523.7	5733448.7	635527.2	5733448.1	-3.5	0.6
	63	635515.9	5733447.0	635527.2	5733448.1	-11.3	-1.1
	64	635513.8	5733439.7	635527.2	5733448.1	-13.4	-8.4
	65	635520.3	5733436.0	635527.2	5733448.1	-6.9	-12.1
	66	635522.0	5733432.8	635527.2	5733448.1	-5.2	-15.3
	67	635529.1	5733434.2	635527.2	5733448.1	1.9	-13.9
	68	635528.4	5733446.5	635527.2	5733448.1	1.2	-1.6
	69	635525.4	5733464.4	635527.2	5733448.1	-1.8	16.3
	70	635517.8	5733454.3	635527.2	5733448.1	-9.4	6.2
	71	635515.2	5733446.8	635527.2	5733448.1	-12.0	-1.3
	72	635516.9	5733445.7	635527.2	5733448.1	-10.3	-2.4
1970	73	635464.5	5733473.8	635459.0	5733471.0	5.5	2.8
	74	635468.5	5733473.9	635459.0	5733471.0	9.5	2.9
	75	635469.3	5733470.2	635459.0	5733471.0	10.3	-0.8
	76	635476.2	5733460.5	635459.0	5733471.0	17.2	-10.5
	77	635472.8	5733460.7	635459.0	5733471.0	13.8	-10.3
	78	635470.1	5733459.1	635459.0	5733471.0	11.1	-11.9
	79	635468.1	5733460.2	635459.0	5733471.0	9.1	-10.8
	80	635466.0	5733461.7	635459.0	5733471.0	7.0	-9.3
	81	635467.7	5733466.4	635459.0	5733471.0	8.7	-4.6
1770	82	635396.3	5733448.7	635397.0	5733440.0	-0.7	8.7
	83	635385.7	5733436.5	635397.0	5733440.0	-11.3	-3.5
	84	635379.9	5733431.1	635397.0	5733440.0	-17.1	-8.9
	85	635381.5	5733412.6	635397.0	5733440.0	-15.5	-27.4
	86	635379.4	5733416.8	635397.0	5733440.0	-17.6	-23.2
	87	635382.0	5733421.1	635397.0	5733440.0	-15.0	-18.9
	88	635374.5	5733440.9	635397.0	5733440.0	-22.5	0.9
	89	635388.5	5733453.1	635397.0	5733440.0	-8.5	13.1
	90	635380.4	5733441.8	635397.0	5733440.0	-16.6	1.8
	91	635395.2	5733418.1	635397.0	5733440.0	-1.8	-21.9
1570	92	635355.1	5733336.4	635362.0	5733342.0	-6.9	-5.6
	93	635355.3	5733341.3	635362.0	5733342.0	-6.7	-0.7
	94	635355.7	5733344.1	635362.0	5733342.0	-6.3	2.1

	95	635350.4	5733349.1	635362.0	5733342.0	-11.6	7.1
	96	635350.6	5733340.5	635362.0	5733342.0	-11.4	-1.5
	97	635350.7	5733330.4	635362.0	5733342.0	-11.3	-11.6
	98	635358.1	5733338.7	635362.0	5733342.0	-3.9	-3.3
	99	635357.9	5733342.2	635362.0	5733342.0	-4.1	0.2
	100	635354.9	5733337.7	635362.0	5733342.0	-7.1	-4.3
	101	635362.6	5733340.3	635362.0	5733342.0	0.6	-1.7
1370	102	635324.2	5733190.8	635347.0	5733205.0	-22.8	-14.2
	103	635347.1	5733216.2	635347.0	5733205.0	0.1	11.2
	104	635339.5	5733197.4	635347.0	5733205.0	-7.5	-7.6
	105	635341.4	5733191.2	635347.0	5733205.0	-5.6	-13.8
	106	635326.7	5733187.7	635347.0	5733205.0	-20.3	-17.3
	107	635413.2	5733282.3	635347.0	5733205.0	66.2	77.3
	108	635327.3	5733204.4	635347.0	5733205.0	-19.7	-0.6
	109	635342.3	5733211.9	635347.0	5733205.0	-4.7	6.9
	110	635341.8	5733202.8	635347.0	5733205.0	-5.2	-2.2
1250	111	635342.4	5733082.3	635353.4	5733094.6	-11.0	-12.3
	112	635345.3	5733078.3	635353.4	5733094.6	-8.1	-16.3
	113	635363.6	5733079.1	635353.4	5733094.6	10.2	-15.5
	114	635363.2	5733069.4	635353.4	5733094.6	9.8	-25.2
	115	635366.4	5733072.7	635353.4	5733094.6	13.0	-21.9
	116	635362.3	5733075.7	635353.4	5733094.6	8.9	-18.9
	117	635357.0	5733102.1	635353.4	5733094.6	3.6	7.5
	118	635352.6	5733101.3	635353.4	5733094.6	-0.8	6.7
	119	635347.7	5733101.9	635353.4	5733094.6	-5.7	7.3
	120	635348.6	5733112.2	635353.4	5733094.6	-4.8	17.6
	121	635351.2	5733100.0	635353.4	5733094.6	-2.2	5.4
Mean Value						2.8	-6.0
Std Dev						17.2	19.5

A2 Wellbore Trajectory Summary and Downhole Geophone Positions

Client: Esso Australia Ltd	Survey Computation Method: Minimum Curvature
Field: BlackBack Gippsland Offshore	DLS Computation Method: Lubinski
Structure: BlackBack Sedco 702 A-1	Vertical Section Azimuth: 54.070°
Well: A-1	Vertical Section Origin: N 0.000 m, E 0.000 m
Borehole: A-1A	TVD Reference: Rotary Table
API #:	26.0 m above MSL
Date: July 08, 1999	Magnetic Declination: 13.388°
Grid Convergence: -0.96788765°	Total Field Strength: 60292.708 nT
Scale Factor: 0.99982562	Dip: -69.040°
Location: S 38 32 31.677, E 148 33 11.274	Declination Date: June 15, 1999
: N 5732873.400 m, E 635355.100 m	Magnetic Declination Model: BGS 1998
Coordinate System: UTM Zone 55 S on Australian Datum 1984	North Reference: Grid North
	Coordinate Reference To: Structure Reference Point

Station	MD (m)	Incl (°)	Azim (°)	TVD (m)	VSec (m)	N/S (m)	E/W (m)	DLS (°/30m)	Northing (m)	Easting (m)
Tie-In	0.0	0.00	0.00	0.0	0.0	0.00	0.00	0.00	5732873	635355
	421.0	0.00	118.67	421.0	0.0	0.00	0.00	0.00	5732873	635355
	424.4	0.44	118.67	424.4	0.0	-0.01	0.01	3.88	5732873	635355
	433.9	0.67	118.67	433.9	0.1	-0.05	0.09	0.73	5732873	635355
	443.6	1.22	118.67	443.6	0.1	-0.13	0.23	1.70	5732873	635355
	453.3	1.40	118.67	453.3	0.2	-0.23	0.43	0.56	5732873	635356
	463.0	1.35	118.67	463.0	0.3	-0.35	0.63	0.15	5732873	635356
	472.6	1.94	118.67	472.6	0.4	-0.48	0.87	1.84	5732873	635356
	482.3	1.67	118.67	482.3	0.6	-0.62	1.14	0.84	5732873	635356
	487.0	1.35	118.67	487.0	0.6	-0.68	1.25	2.04	5732873	635356
	491.1	1.06	118.67	491.1	0.7	-0.72	1.33	2.12	5732873	635356
	519.9	0.83	118.67	519.9	0.9	-0.95	1.74	0.24	5732872	635357
	548.9	0.85	112.10	548.9	1.1	-1.13	2.13	0.10	5732872	635357
	578.0	0.76	117.52	578.0	1.3	-1.30	2.50	0.12	5732872	635358
	607.0	0.44	120.87	607.0	1.4	-1.45	2.76	0.33	5732872	635358
	636.1	0.66	122.56	636.1	1.5	-1.60	3.00	0.23	5732872	635358
	650.0	0.56	118.40	650.0	1.6	-1.67	3.13	0.24	5732872	635358
	689.1	1.26	120.18	689.1	1.8	-1.98	3.67	0.54	5732871	635359
	719.2	1.50	65.10	719.2	2.3	-1.98	4.31	1.29	5732871	635359
	748.8	3.53	17.27	748.7	3.4	-0.95	4.93	2.79	5732872	635360
	807.9	6.57	13.29	807.6	7.5	4.08	6.25	1.55	5732877	635361
	838.2	9.51	11.16	837.6	10.6	8.23	7.13	2.93	5732882	635362
	865.4	12.94	8.40	864.3	14.4	13.45	8.01	3.83	5732887	635363
	896.2	16.67	3.22	894.1	19.6	21.28	8.77	3.85	5732895	635364
	924.9	20.03	0.25	921.3	25.1	30.29	9.02	3.65	5732904	635364
	951.8	23.17	359.15	946.3	30.9	40.20	8.96	3.53	5732914	635364

	981.6	25.16	358.42	973.4	37.8	52.37	8.70	2.03	5732926	635364
	1009.8	28.29	359.43	998.6	45.0	65.06	8.47	3.36	5732938	635364
	1038.9	31.04	0.21	1023.9	53.4	79.45	8.43	2.86	5732953	635364
	1067.1	33.93	359.33	1047.8	62.3	94.63	8.36	3.11	5732968	635363
	1096.2	36.75	358.31	1071.4	71.9	111.42	8.01	2.98	5732985	635363
	1127.1	39.69	357.70	1095.7	82.5	130.51	7.34	2.88	5733004	635362
	1155.9	43.87	354.25	1117.2	92.7	149.66	5.97	4.96	5733023	635361
	1183.5	47.66	352.36	1136.5	102.3	169.30	3.65	4.37	5733043	635359
	1212.1	51.37	354.08	1155.0	112.9	190.90	1.10	4.13	5733064	635356
	1242.1	54.60	354.94	1173.1	125.0	214.73	-1.19	3.30	5733088	635354
Level 11	1250.0			1177.5					5733095	635353
	1271.8	57.80	355.55	1189.6	137.8	239.34	-3.24	3.27	5733113	635352
	1289.2	60.26	355.87	1198.5	145.6	254.19	-4.35	4.28	5733128	635351
	1305.6	58.77	355.43	1206.9	153.1	268.31	-5.42	2.81	5733142	635350
	1316.8	56.98	356.26	1212.8	158.0	277.74	-6.11	5.17	5733151	635349
	1326.3	56.12	356.96	1218.1	162.3	285.68	-6.58	3.27	5733159	635349
	1347.0	56.53	357.77	1229.5	171.8	302.87	-7.37	1.14	5733176	635348
	1363.1	56.49	358.75	1238.4	179.3	316.31	-7.78	1.52	5733190	635347
Level 10	1370.0			1242.4					5733195	635347
	1390.8	54.23	0.22	1254.2	192.5	339.11	-7.99	2.77	5733212	635347
	1423.5	51.09	2.35	1274.0	208.2	365.05	-7.42	3.28	5733238	635348
	1451.7	48.62	4.89	1292.2	222.0	386.61	-6.06	3.33	5733260	635349
	1477.9	46.73	7.60	1309.9	235.0	405.88	-3.96	3.15	5733279	635351
	1509.0	44.79	9.23	1331.5	250.5	427.87	-0.71	2.19	5733301	635354
	1536.5	43.39	10.65	1351.3	264.3	446.74	2.59	1.87	5733320	635358
	1565.1	40.78	12.05	1372.5	278.3	465.55	6.36	2.91	5733339	635361
Level 9	1570.0			1376.3					5733342	635362
	1593.9	37.97	12.26	1394.8	291.9	483.39	10.20	2.93	5733357	635365
	1622.7	36.16	13.24	1417.7	304.9	500.29	14.03	1.99	5733374	635369
	1653.6	32.70	17.26	1443.2	318.5	517.17	18.60	4.01	5733390	635374
	1684.0	31.03	21.55	1469.1	331.7	532.31	23.92	2.77	5733406	635379
	1711.3	28.73	25.70	1492.8	343.4	544.77	29.35	3.40	5733418	635384
	1740.5	26.25	29.79	1518.6	355.5	556.68	35.59	3.21	5733430	635391
	1769.0	24.22	34.87	1544.4	366.8	566.97	42.08	3.12	5733440	635397
Level 8	1770.0			1545.3					5733441	635397
	1800.1	22.39	42.33	1573.0	378.6	576.57	49.71	3.35	5733450	635405
	1831.8	21.60	52.57	1602.4	390.3	584.58	58.40	3.70	5733458	635413
	1855.3	20.88	59.61	1624.3	398.8	589.34	65.47	3.37	5733463	635421
	1883.6	20.21	68.69	1650.8	408.6	593.66	74.36	3.45	5733467	635429
	1913.2	20.52	77.41	1678.6	418.3	596.66	84.21	3.08	5733470	635439
	1942.3	20.68	85.05	1705.8	427.4	598.21	94.30	2.78	5733472	635449
Level 7	1970.0			1731.7					5733471	635459
	1970.9	21.09	95.65	1732.5	435.6	598.14	104.45	3.98	5733471	635460
	1999.7	21.50	104.27	1759.4	442.8	596.33	114.72	3.29	5733470	635470

	2026.2	20.95	112.15	1784.1	448.4	593.35	123.82	3.29	5733467	635479
	2054.0	20.92	111.69	1810.1	453.7	589.63	133.05	0.18	5733463	635488
	2081.0	20.87	110.40	1835.3	459.0	586.18	142.03	0.51	5733459	635497
	2106.2	21.51	111.03	1858.8	464.0	582.95	150.55	0.81	5733456	635506
	2136.2	21.18	111.14	1886.7	469.9	579.03	160.73	0.33	5733452	635516
	2164.5	21.12	110.91	1913.1	475.5	575.36	170.27	0.11	5733449	635525
Level 6	2170.0			1918.2					5733448	635527
Repeat										
	2194.4	21.18	110.70	1941.0	481.4	571.53	180.35	0.10	5733445	635535
	2221.9	21.46	110.57	1966.6	486.9	568.00	189.72	0.31	5733441	635545
	2252.8	21.91	110.26	1995.3	493.2	564.02	200.41	0.45	5733437	635555
	2281.7	22.15	110.72	2022.1	499.2	560.23	210.55	0.31	5733434	635566
	2311.9	22.79	111.57	2050.0	505.5	556.07	221.31	0.71	5733429	635576
	2340.6	23.16	111.09	2076.4	511.6	552.00	231.74	0.43	5733425	635587
Level 5	2370.0			2103.5					5733421	635598
	2370.6	23.11	111.25	2104.0	518.0	547.73	242.76	0.08	5733421	635598
	2402.2	22.82	112.19	2133.1	524.6	543.17	254.20	0.44	5733416	635609
	2427.7	23.03	112.23	2156.6	529.8	539.42	263.40	0.25	5733413	635618
	2457.1	23.70	111.53	2183.6	536.0	535.08	274.21	0.74	5733408	635629
	2485.1	23.95	112.07	2209.2	542.1	530.88	284.71	0.36	5733404	635640
	2514.4	23.28	112.24	2236.1	548.3	526.44	295.60	0.69	5733400	635651
	2544.3	22.77	112.52	2263.5	554.4	522.00	306.39	0.52	5733395	635661
Level 4	2570.0			2287.3					5733392	635671
	2572.0	22.48	112.64	2289.2	560.0	517.90	316.26	0.32	5733391	635671
	2603.6	23.20	113.48	2318.2	566.3	513.10	327.53	0.75	5733386	635683
	2632.5	23.44	113.12	2344.8	572.2	508.57	338.04	0.29	5733382	635693
	2662.7	23.47	114.16	2372.5	578.2	503.75	349.05	0.41	5733377	635704
	2687.9	22.78	113.51	2395.7	583.2	499.75	358.11	0.88	5733373	635713
	2717.7	22.51	113.43	2423.2	589.1	495.18	368.63	0.27	5733368	635724
	2747.3	23.23	113.94	2450.4	594.9	490.57	379.15	0.76	5733364	635734
Level 3	2770.0			2471.3					5733360	635742
	2776.9	23.86	114.08	2477.6	600.8	485.75	389.96	0.64	5733359	635745
	2806.1	24.16	114.43	2504.2	606.7	480.88	400.78	0.34	5733354	635756
	2833.9	24.08	115.09	2529.6	612.3	476.11	411.10	0.30	5733349	635766
	2865.3	24.06	114.92	2558.3	618.5	470.71	422.70	0.07	5733344	635778
	2891.6	24.25	114.71	2582.3	623.7	466.19	432.47	0.24	5733340	635787
	2921.0	24.48	115.83	2609.1	629.6	461.00	443.45	0.53	5733334	635798
	2950.4	24.46	114.98	2635.9	635.4	455.78	454.45	0.36	5733329	635809
Level 2	2970.0			2653.7					5733326	635817
	2979.9	24.69	116.16	2662.7	641.3	450.48	465.52	0.55	5733324	635821
	3005.7	24.88	115.86	2686.1	646.4	445.73	475.25	0.26	5733319	635830
	3069.3	25.26	116.84	2743.7	658.9	433.79	499.37	0.27	5733307	635854
	3096.4	25.29	116.36	2768.2	664.3	428.59	509.74	0.23	5733302	635865
	3125.9	25.43	116.57	2794.8	670.1	422.97	521.03	0.17	5733296	635876
	3154.2	25.60	117.00	2820.4	675.7	417.48	531.91	0.27	5733291	635887

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Level 1	3170.0			2834.6					5733288	635893
	3179.9	25.62	117.24	2843.6	680.7	412.40	541.83	0.12	5733286	635897
	3210.0	26.05	116.45	2870.7	686.7	406.48	553.53	0.55	5733280	635909
	3241.7	26.17	116.33	2899.1	693.2	400.28	566.02	0.12	5733274	635921
	3255.2	26.29	116.26	2911.2	696.0	397.65	571.35	0.28	5733271	635926
	3272.0	26.35	116.20	2926.3	699.5	394.35	578.04	0.12	5733268	635933