

# **Anzon Australia Ltd.**

**Basker**

**Basker**

**Basker #4**

**Revision #4**

**Design: Revision #4**

## **Standard Survey Report**

**19 May, 2006**

# Halliburton Company

## Survey Report

<b>Company:</b>	Anzon Australia Ltd.	<b>Local Co-ordinate Reference:</b>	Well Basker #4
<b>Project:</b>	Basker	<b>TVD Reference:</b>	New RT @ 21.50m (Ocean Patriot)
<b>Site:</b>	Basker	<b>MD Reference:</b>	New RT @ 21.50m (Ocean Patriot)
<b>Well:</b>	Basker #4	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Revision #4	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Revision #4	<b>Database:</b>	EDM 2003.11 Single User Db

<b>Project</b>	Basker		
<b>Map System:</b>	Universal Transverse Mercator	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	GDA94		
<b>Map Zone:</b>	Zone 55S (144 E to 150 E)		

<b>Site</b>	Basker		
<b>Site Position:</b>		<b>Northing:</b>	57,595,520.00 m
<b>From:</b>	Map	<b>Easting:</b>	649,256.80 m
<b>Position Uncertainty:</b>	0.00 m	<b>Slot Radius:</b>	in
		<b>Latitude:</b>	428° 30' 20.048" N
		<b>Longitude:</b>	150° 39' 06.918" E
		<b>Grid Convergence:</b>	3.40 °

<b>Well</b>	Basker #4		
<b>Well Position</b>	<b>+N/-S</b>	0.00 m	<b>Northing:</b> 5,759,555.90 m
	<b>+E/-W</b>	0.00 m	<b>Easting:</b> 649,223.60 m
<b>Position Uncertainty</b>	0.00 m	<b>Wellhead Elevation:</b>	m
		<b>Latitude:</b>	38° 17' 58.866" S
		<b>Longitude:</b>	148° 42' 23.567" E
		<b>Water Depth:</b>	155.50 m

<b>Wellbore</b>	Revision #4		
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>
	BGGM2005	22/02/2006	13.38
			<b>Dip Angle (°)</b>
			-68.73
			<b>Field Strength (nT)</b>
			59,909

<b>Design</b>	Revision #4		
<b>Audit Notes:</b>			
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL
		<b>Tie On Depth:</b>	
<b>Vertical Section:</b>	<b>Depth From (TVD) (m)</b>	<b>+N/-S (m)</b>	<b>+E/-W (m)</b>
	0.00	0.00	0.00
			<b>Direction (°)</b>
			265.11

<b>Survey Program</b>	<b>Date</b>	19/05/2006		
<b>From (m)</b>	<b>To (m)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
175.10	970.51	17½" MWD (Revision #4)	MWD	
1,006.03	3,480.00	12-1¼" MWD (Revision #4)	MWD	

<b>Survey</b>									
<b>Measured Depth (m)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (m)</b>	<b>+N/-S (m)</b>	<b>+E/-W (m)</b>	<b>Vertical Section (m)</b>	<b>Dogleg Rate (°/30m)</b>	<b>Build Rate (°/30m)</b>	<b>Turn Rate (°/30m)</b>
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00
175.10	0.00	0.00	175.10	0.00	0.00	0.00	0.000	0.00	0.00
224.34	0.17	263.11	224.34	-0.01	-0.07	0.07	0.104	0.10	0.00
252.83	0.24	141.85	252.83	-0.06	-0.08	0.08	0.378	0.07	-127.69
281.50	0.68	251.68	281.50	-0.16	-0.20	0.22	0.831	0.46	114.93
310.11	0.57	182.42	310.11	-0.36	-0.37	0.40	0.751	-0.12	-72.62
338.88	0.62	202.07	338.88	-0.64	-0.43	0.49	0.218	0.05	20.49
367.59	0.26	36.68	367.59	-0.74	-0.45	0.51	0.913	-0.38	-172.82
396.25	0.24	140.18	396.25	-0.73	-0.38	0.44	0.411	-0.02	108.34
425.07	0.25	223.74	425.07	-0.82	-0.38	0.45	0.340	0.01	86.98
453.87	0.43	165.28	453.87	-0.97	-0.40	0.48	0.383	0.19	-60.90
482.73	0.56	82.01	482.72	-1.06	-0.23	0.32	0.691	0.14	-86.56

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<b>Site:</b>	Basker	<b>MD Reference:</b>	New RT @ 21.50m (Ocean Patriot)
<b>Well:</b>	Basker #4	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Revision #4	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Revision #4	<b>Database:</b>	EDM 2003.11 Single User Db

Survey									
Measured Depth (m)	Inclination (°)	Azimuth (°)	Vertical Depth (m)	+N/-S (m)	+E/-W (m)	Vertical Section (m)	Dogleg Rate (°/30m)	Build Rate (°/30m)	Turn Rate (°/30m)
511.46	0.39	79.68	511.45	-1.02	0.01	0.08	0.179	-0.18	-2.43
540.02	0.47	24.97	540.01	-0.90	0.15	-0.07	0.422	0.08	-57.47
568.65	0.22	142.01	568.64	-0.83	0.23	-0.16	0.632	-0.26	122.64
596.85	1.34	247.04	596.84	-1.00	-0.04	0.12	1.503	1.19	111.73
625.50	6.54	249.39	625.41	-1.71	-1.87	2.01	5.447	5.45	2.46
654.09	7.66	257.17	653.78	-2.71	-5.25	5.47	1.546	1.18	8.16
682.75	8.24	265.12	682.17	-3.30	-9.16	9.41	1.300	0.61	8.32
711.72	8.55	270.76	710.83	-3.45	-13.39	13.63	0.911	0.32	5.84
740.73	11.20	268.10	739.41	-3.52	-18.36	18.59	2.780	2.74	-2.75
769.62	12.68	264.80	767.67	-3.90	-24.32	24.56	1.692	1.54	-3.43
798.37	12.70	267.68	795.72	-4.31	-30.62	30.88	0.660	0.02	3.01
826.93	14.94	264.68	823.45	-4.78	-37.42	37.70	2.470	2.35	-3.15
855.68	17.23	267.77	851.07	-5.29	-45.37	45.66	2.550	2.39	3.22
884.22	17.03	267.08	878.35	-5.67	-53.77	54.06	0.300	-0.21	-0.73
912.70	18.43	263.44	905.48	-6.39	-62.41	62.72	1.880	1.47	-3.83
941.57	18.44	263.17	932.86	-7.46	-71.47	71.85	0.089	0.01	-0.28
970.51	18.49	263.81	960.31	-8.50	-80.58	81.01	0.216	0.05	0.66
1,006.03	18.22	263.21	994.03	-9.76	-91.69	92.19	0.278	-0.23	-0.51
1,029.04	18.47	263.91	1,015.87	-10.57	-98.89	99.43	0.434	0.33	0.91
1,059.64	20.13	264.08	1,044.75	-11.63	-108.95	109.54	1.628	1.63	0.17
1,091.79	21.19	264.12	1,074.83	-12.80	-120.23	120.88	0.989	0.99	0.04
1,120.29	22.06	264.40	1,101.32	-13.85	-130.68	131.39	0.922	0.92	0.29
1,148.74	23.53	265.09	1,127.55	-14.85	-141.66	142.41	1.575	1.55	0.73
1,166.48	24.41	265.10	1,143.76	-15.47	-148.84	149.62	1.488	1.49	0.02
1,176.93	24.84	265.08	1,153.26	-15.84	-153.18	153.97	1.235	1.23	-0.06
1,205.73	25.45	266.48	1,179.33	-16.74	-165.38	166.21	0.888	0.64	1.46
1,234.49	25.51	265.74	1,205.29	-17.58	-177.72	178.58	0.338	0.06	-0.77
1,263.20	25.87	267.10	1,231.17	-18.36	-190.14	191.02	0.722	0.38	1.42
1,291.75	26.00	266.25	1,256.84	-19.08	-202.61	203.50	0.414	0.14	-0.89
1,320.11	23.84	267.67	1,282.56	-19.72	-214.54	215.44	2.371	-2.28	1.50
1,348.60	23.46	267.58	1,308.66	-20.20	-225.96	226.86	0.402	-0.40	-0.09
1,377.17	23.23	267.54	1,334.89	-20.68	-237.27	238.17	0.242	-0.24	-0.04
1,405.84	22.71	267.15	1,361.28	-21.19	-248.45	249.35	0.567	-0.54	-0.41
1,434.44	21.97	267.39	1,387.74	-21.71	-259.31	260.21	0.782	-0.78	0.25
1,463.13	22.01	267.10	1,414.34	-22.23	-270.04	270.95	0.121	0.04	-0.30
1,491.83	21.79	268.70	1,440.97	-22.62	-280.73	281.64	0.665	-0.23	1.67
1,520.53	21.61	266.95	1,467.63	-23.02	-291.34	292.24	0.702	-0.19	-1.83
1,549.33	22.21	263.87	1,494.36	-23.89	-302.04	302.98	1.350	0.62	-3.21
1,578.03	21.41	264.26	1,521.00	-24.99	-312.65	313.64	0.850	-0.84	0.41
1,606.79	20.45	263.34	1,547.86	-26.10	-322.86	323.91	1.058	-1.00	-0.96
1,635.29	20.73	263.47	1,574.54	-27.25	-332.82	333.93	0.299	0.29	0.14
1,663.93	20.52	262.36	1,601.35	-28.49	-342.83	344.01	0.465	-0.22	-1.16
1,692.37	21.37	263.53	1,627.91	-29.74	-352.92	354.17	0.999	0.90	1.23
1,721.26	21.83	262.07	1,654.77	-31.07	-363.47	364.80	0.735	0.48	-1.52
1,750.09	22.56	260.84	1,681.46	-32.69	-374.24	375.66	0.900	0.76	-1.28
1,779.16	22.33	263.23	1,708.33	-34.23	-385.23	386.74	0.971	-0.24	2.47
1,807.91	23.57	265.88	1,734.81	-35.29	-396.39	397.95	1.684	1.29	2.77
1,832.20	23.47	265.58	1,757.08	-36.01	-406.05	407.64	0.193	-0.12	-0.37
1,865.36	23.22	265.42	1,787.52	-37.04	-419.15	420.78	0.233	-0.23	-0.14
1,894.09	23.12	265.71	1,813.94	-37.92	-430.42	432.09	0.158	-0.10	0.30
1,922.61	22.73	265.42	1,840.20	-38.78	-441.50	443.20	0.427	-0.41	-0.31
1,951.13	22.39	266.14	1,866.54	-39.58	-452.41	454.14	0.461	-0.36	0.76
1,979.66	22.07	265.65	1,892.95	-40.35	-463.18	464.93	0.389	-0.34	-0.52
2,008.13	22.10	266.23	1,919.33	-41.11	-473.85	475.63	0.232	0.03	0.61

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<b>Wellbore:</b>	Revision #4	<b>Survey Calculation Method:</b>	Minimum Curvature
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Survey									
Measured Depth (m)	Inclination (°)	Azimuth (°)	Vertical Depth (m)	+N/-S (m)	+E/-W (m)	Vertical Section (m)	Dogleg Rate (°/30m)	Build Rate (°/30m)	Turn Rate (°/30m)
2,036.70	22.65	265.90	1,945.75	-41.86	-484.70	486.51	0.592	0.58	-0.35
2,065.37	22.69	266.00	1,972.20	-42.64	-495.73	497.56	0.058	0.04	0.10
2,094.12	23.82	265.25	1,998.62	-43.51	-507.04	508.91	1.219	1.18	-0.78
2,122.91	22.88	264.88	2,025.05	-44.49	-518.41	520.32	0.991	-0.98	-0.39
2,151.75	22.84	266.31	2,051.63	-45.35	-529.58	531.52	0.579	-0.04	1.49
2,180.57	23.94	267.75	2,078.08	-45.94	-541.01	542.95	1.290	1.15	1.50
2,209.36	24.32	268.28	2,104.35	-46.34	-552.77	554.71	0.456	0.40	0.55
2,238.12	25.23	268.19	2,130.46	-46.72	-564.81	566.74	0.950	0.95	-0.09
2,266.76	25.65	268.18	2,156.33	-47.11	-577.11	579.03	0.440	0.44	-0.01
2,295.23	26.09	267.23	2,181.94	-47.60	-589.52	591.44	0.637	0.46	-1.00
2,323.86	26.23	267.68	2,207.64	-48.16	-602.13	604.05	0.254	0.15	0.47
2,352.61	26.53	267.73	2,233.40	-48.68	-614.90	616.81	0.314	0.31	0.05
2,381.60	26.79	267.15	2,259.31	-49.26	-627.89	629.81	0.381	0.27	-0.60
2,410.64	26.70	266.45	2,285.24	-49.99	-640.94	642.87	0.338	-0.09	-0.72
2,439.34	26.90	266.47	2,310.86	-50.79	-653.86	655.80	0.209	0.21	0.02
2,467.89	27.11	266.39	2,336.29	-51.59	-666.79	668.76	0.224	0.22	-0.08
2,496.64	27.60	266.02	2,361.83	-52.47	-679.98	681.97	0.541	0.51	-0.39
2,525.16	27.72	265.68	2,387.09	-53.43	-693.18	695.21	0.209	0.13	-0.36
2,553.57	28.03	265.54	2,412.20	-54.44	-706.42	708.49	0.335	0.33	-0.15
2,582.45	28.18	266.17	2,437.68	-55.43	-719.99	722.10	0.345	0.16	0.65
2,611.79	28.71	266.08	2,463.47	-56.37	-733.94	736.07	0.544	0.54	-0.09
2,640.94	27.83	265.83	2,489.15	-57.34	-747.71	749.87	0.914	-0.91	-0.26
2,669.25	27.16	265.59	2,514.26	-58.32	-760.74	762.94	0.720	-0.71	-0.25
2,697.88	24.86	266.02	2,539.99	-59.24	-773.26	775.50	2.418	-2.41	0.45
2,727.14	22.34	267.37	2,566.80	-59.92	-784.95	787.21	2.642	-2.58	1.38
2,755.41	20.81	268.40	2,593.09	-60.31	-795.34	797.59	1.673	-1.62	1.09
2,784.09	20.58	267.75	2,619.92	-60.65	-805.47	807.71	0.340	-0.24	-0.68
2,813.43	20.73	265.54	2,647.37	-61.26	-815.80	818.05	0.812	0.15	-2.26
2,841.68	20.35	264.62	2,673.83	-62.11	-825.68	827.97	0.529	-0.40	-0.98
2,869.89	19.14	264.86	2,700.38	-62.98	-835.17	837.49	1.290	-1.29	0.26
2,898.59	18.93	265.94	2,727.51	-63.73	-844.50	846.85	0.429	-0.22	1.13
2,927.63	17.73	265.97	2,755.07	-64.38	-853.61	855.99	1.240	-1.24	0.03
2,956.77	16.24	266.55	2,782.94	-64.93	-862.10	864.50	1.544	-1.53	0.60
2,984.81	15.17	265.41	2,809.93	-65.46	-869.67	872.09	1.191	-1.14	-1.22
3,013.54	13.08	266.70	2,837.79	-65.95	-876.66	879.10	2.207	-2.18	1.35
3,042.49	11.59	267.59	2,866.08	-66.26	-882.84	885.28	1.557	-1.54	0.92
3,070.24	10.14	268.21	2,893.33	-66.45	-888.07	890.50	1.573	-1.57	0.67
3,099.47	8.90	269.44	2,922.15	-66.56	-892.90	895.32	1.290	-1.27	1.26
3,126.92	7.62	272.84	2,949.32	-66.49	-896.84	899.24	1.497	-1.40	3.72
3,154.38	6.95	271.52	2,976.56	-66.35	-900.32	902.70	0.754	-0.73	-1.44
3,184.68	6.18	274.43	3,006.66	-66.18	-903.78	906.13	0.830	-0.76	2.88
3,212.14	5.61	271.92	3,033.97	-66.02	-906.59	908.92	0.683	-0.62	-2.74
3,241.95	5.14	272.66	3,063.65	-65.91	-909.38	911.69	0.478	-0.47	0.74
3,270.13	4.86	277.14	3,091.72	-65.70	-911.83	914.11	0.511	-0.30	4.77
3,297.42	3.88	281.92	3,118.94	-65.37	-913.88	916.13	1.148	-1.08	5.25
3,327.08	3.55	281.91	3,148.53	-64.97	-915.76	917.97	0.334	-0.33	-0.01
3,355.16	3.03	283.04	3,176.57	-64.62	-917.33	919.50	0.560	-0.56	1.21
3,412.73	2.54	279.42	3,234.07	-64.07	-920.08	922.19	0.271	-0.26	-1.89
3,440.98	2.44	280.54	3,262.29	-63.86	-921.28	923.37	0.118	-0.11	1.19
3,471.94	2.68	285.72	3,293.22	-63.54	-922.63	924.69	0.323	0.23	5.02
3,480.00	2.68	285.72	3,301.27	-63.44	-922.99	925.04	0.000	0.00	0.00

# Halliburton Company

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<b>Project:</b>	Basker	<b>TVD Reference:</b>	New RT @ 21.50m (Ocean Patriot)
<b>Site:</b>	Basker	<b>MD Reference:</b>	New RT @ 21.50m (Ocean Patriot)
<b>Well:</b>	Basker #4	<b>North Reference:</b>	Grid
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### Targets

#### Target Name

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (m)	+N/-S m	+E/-W m	Northing (m)	Easting (m)	Latitude	Longitude
- Shape									
Top Zone 2 Reservo	0.00	0.00	3,086.00	-83.90	-981.60	5,759,472.00	648,242.00	38° 18' 02.173" S	148° 41' 43.234" E
- actual wellpath misses by 72.56m at 3264.38m MD (3086.00 TVD, -65.76 N, -911.34 E)									
- Rectangle (sides W100.00 H50.00 D0.00)									

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_