

## SCHLUMBERGER

Survey report

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Client..... Santos Ltd  
 Field..... Otway  
 Well..... Pecten East-1  
 API number.....  
 Engineer..... J. Oldridge / A. Bayly  
 RIG..... Ocean Patriot  
 STATE..... Victoria

Spud date..... 23-Jun-08  
 Last survey date..... 06-Jul-08  
 Total accepted surveys... 55  
 MD of first survey..... 0.00 m  
 MD of last survey..... 1993.00 m

----- Survey calculation methods-----  
 Method for positions..... Minimum curvature  
 Method for DLS..... Mason & Taylor

----- Depth reference -----  
 Permanent datum..... Australian Height Datum  
 Depth reference..... Driller's Depth  
 GL above permanent..... 59.70 m  
 KB above permanent..... Top Drive  
 DF above permanent..... 20.80 m

----- Vertical section origin-----  
 Latitude (+N/S-)..... 0.00 m  
 Departure (+E/W-)..... 0.00 m

----- Platform reference point-----  
 Latitude (+N/S-)..... ---  
 Departure (+E/W-)..... ---

Azimuth from Vsect Origin to target: 0.00 degrees

----- Geomagnetic data -----  
 Magnetic model..... BGGM version 2007  
 Magnetic date..... 29-Jun-2008  
 Magnetic field strength... 1214.73 HCNT  
 Magnetic dec (+E/W-)..... 10.80 degrees  
 Magnetic dip..... -69.83 degrees

----- MWD survey Reference Criteria -----  
 Reference G..... 1000.06 mGal  
 Reference H..... 1214.74 HCNT  
 Reference Dip..... -69.83 degrees  
 Tolerance of G..... (+/-) 2.50 mGal  
 Tolerance of H..... (+/-) 6.00 HCNT  
 Tolerance of Dip..... (+/-) 0.45 degrees

----- Corrections -----  
 Magnetic dec (+E/W-)..... 10.80 degrees  
 Grid convergence (+E/W-).. -1.07 degrees  
 Total az corr (+E/W-)..... 11.87 degrees  
 (Total az corr = magnetic dec - grid conv)  
 Survey Correction Type ...:  
 I=Sag Corrected Inclination  
 M=Schlumberger Magnetic Correction  
 S=Shell Magnetic Correction  
 F=Failed Axis Correction  
 R=Magnetic Resonance Tool Correction  
 D=Dmag Magnetic Correction

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Seq #	Measured depth (m)	Incl angle (deg)	Azimuth angle (deg)	Course length (m)	TVD depth (m)	Vertical section (m)	Displ +N/S- (m)	Displ +E/W- (m)	Total displ (m)	At Azim (deg)	DLS (deg/100f)	Srvy tool type	Tool Corr (deg)
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	TIP	None
2	80.50	0.00	0.00	80.50	80.50	0.00	0.00	0.00	0.00	0.00	0.00	SB	None
3	100.22	0.31	192.19	19.72	100.22	-0.05	-0.05	-0.01	0.05	192.19	0.48	MS	None
4	129.23	0.72	126.87	29.01	129.23	-0.24	-0.24	0.12	0.27	153.65	0.69	MS	None
5	158.47	0.93	153.25	29.24	158.47	-0.56	-0.56	0.37	0.67	146.44	0.45	MS	None
6	186.57	0.37	216.94	28.10	186.56	-0.84	-0.84	0.42	0.94	153.35	0.91	MS	None
7	214.65	0.39	95.93	28.08	214.64	-0.92	-0.92	0.46	1.03	153.38	0.72	MS	None
8	242.72	0.08	107.95	28.07	242.71	-0.93	-0.93	0.57	1.10	148.44	0.34	MS	None
9	270.58	0.13	47.49	27.86	270.57	-0.92	-0.92	0.62	1.11	146.18	0.12	MS	None
10	279.92	0.21	93.74	9.34	279.91	-0.91	-0.91	0.64	1.12	144.95	0.50	MS	None
11	308.81	0.70	190.12	28.89	308.80	-1.09	-1.09	0.66	1.28	148.72	0.79	MS	None
12	337.67	0.63	187.60	28.86	337.66	-1.42	-1.42	0.61	1.55	156.75	0.08	MS	None
13	366.59	0.68	185.93	28.92	366.58	-1.75	-1.75	0.57	1.84	161.90	0.06	MS	None
14	395.33	0.68	19.42	28.74	395.32	-1.76	-1.76	0.61	1.86	160.84	1.43	MS	None
15	424.18	0.62	192.55	28.85	424.17	-1.75	-1.75	0.63	1.86	160.08	1.37	MS	None
16	453.01	0.59	200.09	28.83	453.00	-2.04	-2.04	0.55	2.11	164.94	0.09	MS	None
17	481.91	0.66	180.35	28.90	481.89	-2.35	-2.35	0.50	2.40	168.04	0.24	MS	None
18	510.72	0.65	195.28	28.81	510.70	-2.67	-2.67	0.45	2.71	170.38	0.18	MS	None
19	539.63	0.70	195.89	28.91	539.61	-3.00	-3.00	0.36	3.02	173.13	0.05	MS	None
20	568.40	0.54	206.41	28.77	568.38	-3.29	-3.29	0.25	3.30	175.60	0.21	MS	None
21	597.28	0.59	205.80	28.88	597.26	-3.54	-3.54	0.13	3.55	177.94	0.05	MS	None
22	616.42	0.40	109.32	19.14	616.40	-3.66	-3.66	0.15	3.66	177.68	1.19	MS	None
23	678.32	0.27	62.01	61.90	678.30	-3.66	-3.66	0.48	3.69	172.52	0.14	PUP	None
24	764.17	0.40	151.54	85.85	764.14	-3.83	-3.83	0.80	3.91	168.17	0.17	PUP	None
25	880.73	0.59	217.65	116.56	880.70	-4.66	-4.66	0.63	4.70	172.31	0.15	PUP	None
26	909.85	1.97	252.45	29.12	909.81	-4.93	-4.93	0.06	4.93	179.30	1.59	PUP	None
27	991.51	2.15	267.80	81.66	991.42	-5.41	-5.41	-2.81	6.10	207.43	0.22	PUP	None
28	1109.66	1.30	255.86	118.15	1109.52	-5.82	-5.82	-6.32	8.60	227.35	0.24	PUP	None
29	1197.14	1.38	257.72	87.48	1196.97	-6.29	-6.29	-8.31	10.43	232.89	0.03	PUP	None
30	1254.68	1.42	257.96	57.54	1254.50	-6.59	-6.59	-9.69	11.72	235.79	0.02	PUP	None

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31	1285.95	1.48	259.75	31.27	1285.76	-6.74	-6.74	-10.46	12.45	237.22	0.07	PUP	None
32	1314.65	1.50	257.02	28.70	1314.45	-6.89	-6.89	-11.20	13.15	238.39	0.08	PUP	None
33	1343.08	1.43	249.34	28.43	1342.87	-7.10	-7.10	-11.89	13.85	239.16	0.22	PUP	None
34	1400.23	1.28	247.24	57.15	1400.00	-7.60	-7.60	-13.15	15.18	239.98	0.08	PUP	None
35	1428.81	1.37	244.58	28.58	1428.57	-7.87	-7.87	-13.75	15.84	240.22	0.12	PUP	None
36	1458.68	1.51	240.58	29.87	1458.43	-8.21	-8.21	-14.41	16.59	240.32	0.18	PUP	None

37	1487.10	1.65	235.19	28.42	1486.84	-8.63	-8.63	-15.08	17.37	240.21	0.22	PUP	None
38	1515.81	1.83	234.00	28.71	1515.54	-9.14	-9.14	-15.79	18.24	239.94	0.19	PUP	None
39	1545.03	1.95	232.90	29.22	1544.74	-9.71	-9.71	-16.56	19.20	239.61	0.13	PUP	None
40	1573.43	2.06	237.88	28.40	1573.13	-10.27	-10.27	-17.38	20.19	239.41	0.22	PUP	None
41	1601.32	2.20	234.44	27.89	1601.00	-10.85	-10.85	-18.24	21.22	239.25	0.21	PUP	None
42	1630.42	2.54	236.15	29.10	1630.07	-11.54	-11.54	-19.23	22.42	239.04	0.36	PUP	None
43	1659.81	3.11	236.63	29.39	1659.43	-12.34	-12.34	-20.43	23.87	238.88	0.59	PUP	None
44	1687.83	3.45	240.78	28.02	1687.40	-13.17	-13.17	-21.81	25.47	238.88	0.45	PUP	None
45	1716.74	3.96	241.10	28.91	1716.25	-14.07	-14.07	-23.44	27.34	239.02	0.54	PUP	None
46	1746.86	4.10	241.06	30.12	1746.30	-15.10	-15.10	-25.29	29.45	239.17	0.14	PUP	None
47	1775.20	4.48	242.79	28.34	1774.56	-16.09	-16.09	-27.16	31.57	239.35	0.43	PUP	None
48	1803.10	4.37	240.10	27.90	1802.37	-17.12	-17.12	-29.05	33.72	239.49	0.26	PUP	None
49	1832.76	4.84	243.68	29.66	1831.94	-18.24	-18.24	-31.15	36.10	239.65	0.57	PUP	None
50	1862.61	4.80	242.85	29.85	1861.68	-19.37	-19.37	-33.39	38.60	239.89	0.08	PUP	None
51	1889.75	5.24	243.63	27.14	1888.72	-20.44	-20.44	-35.51	40.98	240.08	0.50	PUP	None
52	1919.69	5.61	241.98	29.94	1918.52	-21.73	-21.73	-38.03	43.80	240.26	0.41	PUP	None
53	1947.74	5.93	242.04	28.05	1946.43	-23.06	-23.06	-40.52	46.62	240.36	0.35	PUP	None
54	1972.25	6.25	238.30	24.51	1970.80	-24.35	-24.35	-42.78	49.22	240.35	0.63	PUP	None
55	1993.00	6.25	238.30	20.75	1991.43	-25.54	-25.54	-44.70	51.48	240.26	0.00	Projection to TD	