

SCHLUMBERGER

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Client.....: Santos Ltd
Field.....: OtwayWell.....: Netherby-1 Spud date.....: 15-Jul-08
API number.....: Last survey date.....: 31-Jul-08
Engineer.....: J. Oldridge / Z. Rudd Total accepted surveys...: 63
MD of first survey.....: 0.00 m
RIG.....: Ocean Patriot MD of last survey.....: 1875.00 m
STATE.....: Victoria

----- Survey calculation methods-----

Method for positions.....: Minimum curvature
Method for DLS.....: Mason & Taylor

----- Geomagnetic data -----

Magnetic model.....: BGGM version 2007
Magnetic date.....: 20-Jul-2008
Magnetic field strength...: 1215.19 HCNT
Magnetic dec (+E/W-)...: 10.78 degrees
Magnetic dip.....: -69.86 degrees

----- Depth reference -----

Permanent datum.....: Mean Sea Level
Depth reference.....: Driller's Depth
GL above permanent.....: -66.10 m
KB above permanent.....: Top Drive
DF above permanent.....: 20.80 m

----- MWD survey Reference Criteria -----

Reference G.....: 1000.07 mGal
Reference H.....: 1215.19 HCNT
Reference Dip.....: -69.86 degrees
Tolerance of G.....: (+/-) 2.50 mGal
Tolerance of H.....: (+/-) 6.00 HCNT
Tolerance of Dip.....: (+/-) 0.45 degrees

----- Vertical section origin-----

Latitude (+N/S-)...: 0.00 m
Departure (+E/W-)...: 0.00 m

----- Platform reference point-----

Latitude (+N/S-)...: -----
Departure (+E/W-)...: -----

----- Corrections -----

Magnetic dec (+E/W-)...: 10.78 degrees
Grid convergence (+E/W-): -1.03 degrees
Total az corr (+E/W-)...: 11.81 degrees
Azimuth from Vsect Origin to target: 0.00 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 (deg)	At Azim (deg)	DLS (deg/100f)	Srvy tool type
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	87.00	0.00	0.00	87.00	87.00	0.00	0.00	0.00	0.00	0.00	0.00	SB None
3	110.29	0.34	228.85	23.29	110.29	-0.05	-0.05	-0.05	0.07	228.85	0.44	EMS None
4	139.31	0.48	70.38	29.02	139.31	-0.06	-0.06	-0.00	0.06	182.21	0.85	EMS None
5	168.50	0.56	302.02	29.19	168.50	0.06	0.06	-0.01	0.06	351.63	0.98	EMS None
6	196.58	0.62	250.43	28.08	196.58	0.08	0.08	-0.27	0.28	286.10	0.56	EMS None
7	224.66	0.70	303.64	28.08	224.66	0.12	0.12	-0.55	0.57	282.37	0.65	EMS None
8	252.74	0.64	294.72	28.08	252.73	0.28	0.28	-0.84	0.88	288.58	0.13	EMS None
9	280.80	0.72	298.73	28.06	280.79	0.43	0.43	-1.14	1.22	290.84	0.10	EMS None
10	309.51	0.65	287.17	28.71	309.50	0.57	0.57	-1.45	1.56	291.36	0.16	EMS None
11	337.98	0.69	292.15	28.47	337.97	0.68	0.68	-1.76	1.89	291.08	0.08	EMS None
12	366.89	0.70	359.25	28.91	366.88	0.92	0.92	-1.93	2.14	295.57	0.81	EMS None
13	395.80	0.92	12.26	28.91	395.78	1.32	1.32	-1.88	2.30	305.19	0.30	EMS None
14	424.75	0.87	19.30	28.95	424.73	1.76	1.76	-1.76	2.49	315.04	0.13	EMS None
15	453.68	0.56	88.31	28.93	453.66	1.97	1.97	-1.54	2.50	321.94	0.89	EMS None
16	482.49	0.59	96.35	28.81	482.47	1.96	1.96	-1.26	2.33	327.35	0.09	EMS None
17	511.36	0.65	96.56	28.87	511.34	1.92	1.92	-0.94	2.14	333.84	0.06	EMS None
18	540.27	0.70	100.87	28.91	540.24	1.87	1.87	-0.61	1.97	341.99	0.08	EMS None
19	569.05	0.71	112.99	28.78	569.02	1.77	1.77	-0.27	1.79	351.27	0.16	EMS None
20	597.90	0.69	128.34	28.85	597.87	1.59	1.59	0.03	1.59	1.05	0.20	EMS None
21	617.15	0.84	123.17	19.25	617.12	1.44	1.44	0.24	1.46	9.38	0.26	EMS None
22	634.46	0.94	124.68	17.31	634.42	1.29	1.29	0.46	1.37	19.65	0.18	EMS None
23	660.03	0.52	130.06	25.57	659.99	1.10	1.10	0.72	1.31	33.35	0.51	MWD None
24	745.26	2.31	160.81	85.23	745.19	-0.77	-0.77	1.58	1.76	116.04	0.67	MWD None
25	773.50	4.27	158.54	28.24	773.39	-2.29	-2.29	2.15	3.14	136.73	2.12	MWD None
26	801.23	5.89	157.85	27.73	801.01	-4.57	-4.57	3.07	5.50	146.11	1.78	MWD None
27	831.43	7.57	152.25	30.20	831.00	-7.76	-7.76	4.58	9.01	149.47	1.82	MWD None
28	859.94	9.31	137.33	28.51	859.20	-11.12	-11.12	7.02	13.15	147.75	2.98	MWD None
29	889.70	11.19	126.87	29.76	888.49	-14.63	-14.63	10.96	18.28	143.15	2.70	MWD None
30	919.19	12.15	123.94	29.49	917.37	-18.08	-18.08	15.82	24.02	138.80	1.17	MWD None

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Seq	Measured	Incl	Azimuth	Course	TVD	Vertical	Displ	Displ	Total	At	DLS	Srvy	Tool
#	depth	angle	angle	length	depth	section	+N/S-	+E/W-	displ	Azim	(deg/	tool	Corr
-	(m)	(deg)	(deg)	(m)	(m)	(m)	(m)	(m)	(deg)	100f)	type	(deg)	
31	948.90	12.93	122.08	29.71	946.37	-21.59	-21.59	21.23	30.28	135.47	0.90	MWD	None
32	979.41	13.44	120.85	30.51	976.07	-25.22	-25.22	27.17	37.07	132.86	0.58	MWD	None
33	1007.51	14.16	120.45	28.10	1003.36	-28.63	-28.63	32.94	43.64	131.00	0.79	MWD	None
34	1036.14	14.55	118.54	28.63	1031.10	-32.13	-32.13	39.12	50.62	129.40	0.65	MWD	None
35	1065.20	14.60	118.24	29.06	1059.22	-35.60	-35.60	45.55	57.81	128.01	0.09	MWD	None
36	1096.08	14.09	118.27	30.88	1089.14	-39.23	-39.23	52.29	65.37	126.88	0.50	MWD	None
37	1124.66	14.01	116.68	28.58	1116.87	-42.43	-42.43	58.44	72.22	125.98	0.42	MWD	None
38	1153.50	15.82	116.95	28.84	1144.73	-45.78	-45.78	65.07	79.56	125.13	1.91	MWD	None
39	1182.04	19.92	117.65	28.54	1171.89	-49.80	-49.80	72.84	88.24	124.36	4.38	MWD	None
40	1210.10	23.56	117.60	28.06	1197.95	-54.62	-54.62	82.05	98.57	123.65	3.95	MWD	None
41	1239.36	25.76	114.79	29.26	1224.54	-59.99	-59.99	93.01	110.68	122.82	2.60	MWD	None
42	1267.39	29.36	115.62	28.03	1249.39	-65.52	-65.52	104.74	123.54	122.03	3.94	MWD	None
43	1294.27	33.74	116.12	26.88	1272.29	-71.66	-71.66	117.39	137.53	121.40	4.98	MWD	None
44	1322.42	33.97	116.49	28.15	1295.67	-78.61	-78.61	131.45	153.16	120.88	0.33	MWD	None
45	1350.13	34.69	115.42	27.71	1318.55	-85.44	-85.44	145.50	168.73	120.42	1.03	MWD	None
46	1379.95	34.59	115.60	29.82	1343.08	-92.74	-92.74	160.80	185.63	119.98	0.15	MWD	None
47	1408.27	35.05	116.50	28.32	1366.33	-99.85	-99.85	175.32	201.76	119.66	0.74	MWD	None
48	1436.16	34.88	116.15	27.89	1389.19	-106.93	-106.93	189.65	217.72	119.42	0.29	MWD	None
49	1465.63	35.16	116.10	29.47	1413.32	-114.38	-114.38	204.83	234.60	119.18	0.29	MWD	None
50	1494.27	35.09	116.37	28.64	1436.75	-121.67	-121.67	219.61	251.06	118.99	0.18	MWD	None
51	1523.47	35.39	116.22	29.20	1460.60	-129.13	-129.13	234.72	267.89	118.82	0.33	MWD	None
52	1552.94	35.14	115.95	29.47	1484.66	-136.61	-136.61	250.00	284.89	118.65	0.30	MWD	None
53	1581.55	35.10	115.95	28.61	1508.06	-143.81	-143.81	264.80	301.33	118.51	0.04	MWD	None
54	1610.85	35.09	116.84	29.30	1532.03	-151.30	-151.30	279.89	318.17	118.39	0.53	MWD	None
55	1639.13	35.01	117.96	28.28	1555.18	-158.78	-158.78	294.31	334.40	118.35	0.70	MWD	None
56	1668.08	34.91	118.18	28.95	1578.91	-166.58	-166.58	308.94	350.99	118.33	0.17	MWD	None
57	1695.83	34.89	119.39	27.75	1601.67	-174.23	-174.23	322.86	366.87	118.35	0.76	MWD	None
58	1725.28	34.90	120.32	29.45	1625.82	-182.61	-182.61	337.47	383.71	118.42	0.55	MWD	None
59	1753.73	34.99	120.90	28.45	1649.15	-190.91	-190.91	351.49	399.99	118.51	0.37	MWD	None
60	1781.62	35.06	120.66	27.89	1671.98	-199.10	-199.10	365.25	415.99	118.60	0.17	MWD	None

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#	depth	angle	angle	length	depth	section	+N/S-	+E/W-	displ	Azim	(deg/	tool	Corr
-	(m)	(deg)	(deg)	(m)	(m)	(m)	(m)	(m)	(deg)	100f)	type	(deg)	
61	1811.05	35.22	120.21	29.43	1696.05	-207.68	-207.68	379.85	432.92	118.67	0.32	MWD	None
62	1838.59	35.18	119.41	27.54	1718.56	-215.57	-215.57	393.63	448.79	118.71	0.51	MWD	None
63	1875.00	35.38	119.23	36.41	1748.28	-225.87	-225.87	411.96	469.82	118.74	0.06	Projection to TD	

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