

## Henry-2DW1 Geodetic Survey

Report Date:	October 17, 2008	Survey / DLS Computation Method:	Minimum Curvature / Lubinski
Client:	Santos Limited	Vertical Section Azimuth:	119.010°
Field:	Henry	Vertical Section Origin:	N 0.000 m, E 0.000 m
Structure / Slot:	Henry / 1	TVD Reference Datum:	RKB
Well:	Henry-2	TVD Reference Elevation:	21.5 m relative to LAT
Borehole:	Henry-2DW1	Sea Bed / Ground Level Elevation:	-67.000 m relative to LAT
UWI/API#:		Magnetic Declination:	10.771°
Survey Name / Date:	Henry-2DW1 / September 16, 2008	Total Field Strength:	60768.920 nT
Tort / AHD / DDI / ERD ratio:	103.943° / 720.46 m / 5.467 / 0.420	Magnetic Dip:	-69.885°
Grid Coordinate System:	GDA94/MGA94 Zone 54	Declination Date:	September 16, 2008
Location Lat/Long:	S 38 42 14.557, E 142 37 13.057	Magnetic Declination Model:	BGGM 2008
Location Grid N/E Y/X:	N 5714819.295 m, E 640890.807 m	North Reference:	Grid North
Grid Convergence Angle:	-1.01333239°	Total Corr Mag North -> Grid North:	+11.784°
Grid Scale Factor:	0.99984444	Local Coordinates Referenced To:	Well Head

Comments	Measured Depth (m)	Inclination (deg)	Azimuth Grid (deg)	TVD (m)	Vertical Section (m)	NS Grid North (m)	EW Grid North (m)	DLS (deg/30 m)	Northing (m)	Easting (m)	Latitude	Longitude
Tie-In	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5714819.30	640890.81	S 38 42 14.557	E 142 37 13.057
Sea Floor	87.00	0.00	0.00	87.00	0.00	0.00	0.00	0.00	5714819.30	640890.81	S 38 42 14.557	E 142 37 13.057
	100.54	0.86	166.76	100.54	0.07	-0.10	0.02	1.91	5714819.20	640890.83	S 38 42 14.560	E 142 37 13.058
	121.29	0.69	181.46	121.29	0.23	-0.38	0.06	0.38	5714818.92	640890.86	S 38 42 14.569	E 142 37 13.059
	139.00	0.44	330.20	139.00	0.22	-0.42	0.02	1.85	5714818.87	640890.83	S 38 42 14.571	E 142 37 13.058
	168.19	0.76	319.12	168.19	-0.06	-0.18	-0.16	0.35	5714819.12	640890.64	S 38 42 14.563	E 142 37 13.050
	196.26	0.86	317.61	196.25	-0.43	0.12	-0.43	0.11	5714819.41	640890.38	S 38 42 14.554	E 142 37 13.039
	224.34	0.90	318.13	224.33	-0.84	0.44	-0.72	0.04	5714819.73	640890.09	S 38 42 14.544	E 142 37 13.027
	252.42	0.82	320.95	252.41	-1.23	0.76	-0.99	0.10	5714820.05	640889.82	S 38 42 14.533	E 142 37 13.015
	280.48	0.85	321.06	280.46	-1.61	1.07	-1.25	0.03	5714820.37	640889.56	S 38 42 14.523	E 142 37 13.004
	309.36	0.90	321.89	309.34	-2.02	1.42	-1.52	0.05	5714820.71	640889.29	S 38 42 14.512	E 142 37 12.993
	338.11	0.88	317.75	338.09	-2.44	1.76	-1.81	0.07	5714821.06	640889.00	S 38 42 14.501	E 142 37 12.980
	366.97	0.91	337.60	366.94	-2.83	2.14	-2.05	0.32	5714821.43	640888.76	S 38 42 14.489	E 142 37 12.970
	395.76	0.18	193.03	395.73	-2.99	2.30	-2.14	1.11	5714821.60	640888.66	S 38 42 14.484	E 142 37 12.966
	424.60	0.23	186.43	424.57	-2.96	2.20	-2.16	0.06	5714821.50	640888.65	S 38 42 14.487	E 142 37 12.966
	453.40	0.22	174.07	453.37	-2.90	2.09	-2.16	0.05	5714821.38	640888.65	S 38 42 14.491	E 142 37 12.966
	482.27	0.28	178.70	482.24	-2.84	1.96	-2.15	0.07	5714821.26	640888.65	S 38 42 14.495	E 142 37 12.966
	511.15	0.30	175.17	511.12	-2.76	1.82	-2.15	0.03	5714821.11	640888.66	S 38 42 14.500	E 142 37 12.966
	540.11	0.32	168.39	540.08	-2.66	1.66	-2.12	0.04	5714820.96	640888.68	S 38 42 14.505	E 142 37 12.968
	568.89	0.41	174.22	568.86	-2.55	1.48	-2.10	0.10	5714820.78	640888.71	S 38 42 14.510	E 142 37 12.969
	597.83	0.27	181.06	597.80	-2.46	1.31	-2.09	0.15	5714820.61	640888.72	S 38 42 14.516	E 142 37 12.969
	626.63	0.41	176.71	626.60	-2.37	1.14	-2.08	0.15	5714820.44	640888.72	S 38 42 14.521	E 142 37 12.970
	634.07	0.47	178.32	634.04	-2.34	1.08	-2.08	0.25	5714820.38	640888.73	S 38 42 14.523	E 142 37 12.970
	681.58	0.29	157.36	681.55	-2.15	0.78	-2.03	0.14	5714820.07	640888.78	S 38 42 14.533	E 142 37 12.972
	740.06	0.45	140.43	740.03	-1.82	0.46	-1.82	0.10	5714819.76	640888.98	S 38 42 14.543	E 142 37 12.981
	768.28	0.83	157.79	768.24	-1.56	0.19	-1.68	0.45	5714819.48	640889.13	S 38 42 14.552	E 142 37 12.987
	797.08	2.50	141.89	797.03	-0.82	-0.50	-1.21	1.79	5714818.80	640889.60	S 38 42 14.574	E 142 37 13.007
	826.15	3.39	139.33	826.06	0.57	-1.65	-0.26	0.93	5714817.65	640890.55	S 38 42 14.611	E 142 37 13.047
	854.44	3.40	141.08	854.30	2.13	-2.94	0.81	0.11	5714816.36	640891.62	S 38 42 14.652	E 142 37 13.092
	883.67	3.87	140.62	883.47	3.85	-4.37	1.98	0.48	5714814.92	640892.79	S 38 42 14.698	E 142 37 13.142
	912.33	4.77	142.55	912.05	5.85	-6.07	3.32	0.95	5714813.23	640894.13	S 38 42 14.752	E 142 37 13.198
	940.43	6.91	146.93	940.01	8.41	-8.41	4.95	2.33	5714810.89	640895.76	S 38 42 14.827	E 142 37 13.268
	969.38	10.03	149.10	968.64	12.13	-12.03	7.20	3.25	5714807.26	640898.01	S 38 42 14.943	E 142 37 13.363
	998.24	13.64	148.11	996.88	17.28	-17.08	10.29	3.76	5714802.22	640901.09	S 38 42 15.105	E 142 37 13.495
	1026.48	16.66	146.70	1024.13	23.78	-23.29	14.27	3.23	5714796.01	640905.08	S 38 42 15.304	E 142 37 13.664
	1056.39	19.21	141.25	1052.59	32.13	-30.72	19.71	3.06	5714788.58	640910.51	S 38 42 15.542	E 142 37 13.895
	1084.97	21.95	138.51	1079.34	41.52	-38.39	26.19	3.05	5714780.92	640916.99	S 38 42 15.787	E 142 37 14.168
	1112.81	24.41	135.23	1104.94	51.95	-46.37	33.69	2.99	5714772.93	640924.49	S 38 42 16.041	E 142 37 14.485
	1141.90	25.91	132.79	1131.27	63.90	-54.95	42.59	1.88	5714764.35	640933.39	S 38 42 16.315	E 142 37 14.859
	1169.55	27.21	130.42	1156.00	75.96	-63.16	51.83	1.82	5714756.15	640942.63	S 38 42 16.575	E 142 37 15.248

	1198.94	28.27	128.23	1182.01	89.42	-71.82	62.42	1.50	5714747.48	640953.22	S 38 42 16.850	E 142 37 15.692
	1228.12	29.96	126.70	1207.50	103.46	-80.45	73.69	1.90	5714738.85	640964.48	S 38 42 17.124	E 142 37 16.165
	1257.97	31.15	125.30	1233.21	118.52	-89.37	85.97	1.39	5714729.94	640976.76	S 38 42 17.406	E 142 37 16.679
	1287.26	34.00	121.48	1257.89	134.24	-98.03	99.14	3.60	5714721.28	640989.93	S 38 42 17.679	E 142 37 17.231
	1315.37	36.85	115.74	1280.80	150.51	-105.79	113.44	4.67	5714713.52	641004.23	S 38 42 17.923	E 142 37 17.828
	1344.58	38.72	112.58	1303.89	168.34	-113.11	129.77	2.76	5714706.20	641020.55	S 38 42 18.150	E 142 37 18.509
	1374.02	39.86	112.30	1326.67	186.86	-120.22	147.00	1.18	5714699.09	641037.78	S 38 42 18.371	E 142 37 19.227
	1402.20	40.08	111.24	1348.27	204.82	-126.94	163.81	0.76	5714692.38	641054.59	S 38 42 18.579	E 142 37 19.928
	1431.69	39.39	110.89	1370.95	223.49	-133.71	181.40	0.74	5714685.60	641072.18	S 38 42 18.789	E 142 37 20.661
	1460.30	38.67	109.79	1393.17	241.30	-139.98	198.29	1.05	5714679.34	641089.07	S 38 42 18.982	E 142 37 21.364
	1488.25	37.49	109.07	1415.17	258.30	-145.71	214.55	1.35	5714673.61	641105.32	S 38 42 19.159	E 142 37 22.041
	1519.61	38.21	109.48	1439.93	277.26	-152.06	232.71	0.73	5714667.25	641123.48	S 38 42 19.354	E 142 37 22.798
	1537.83	38.05	110.01	1454.27	288.36	-155.86	243.30	0.60	5714663.45	641134.07	S 38 42 19.471	E 142 37 23.239
	1548.79	38.12	110.29	1462.89	295.04	-158.19	249.65	0.51	5714661.13	641140.42	S 38 42 19.543	E 142 37 23.503
	1577.82	39.48	111.06	1485.52	313.04	-164.62	266.66	1.49	5714654.70	641157.43	S 38 42 19.742	E 142 37 24.212
Tie-In	1606.72	41.45	112.42	1507.50	331.64	-171.57	284.08	2.24	5714647.75	641174.85	S 38 42 19.957	E 142 37 24.938
	1632.48	42.47	113.86	1526.66	348.78	-178.34	299.92	1.63	5714640.99	641190.68	S 38 42 20.168	E 142 37 25.598
	1659.21	42.31	111.94	1546.40	366.69	-185.35	316.52	1.46	5714633.97	641207.28	S 38 42 20.385	E 142 37 26.290
	1687.29	44.02	112.28	1566.88	385.76	-192.58	334.31	1.84	5714626.74	641225.07	S 38 42 20.610	E 142 37 27.032
	1715.86	46.85	112.60	1586.93	405.98	-200.35	353.12	2.98	5714618.98	641243.88	S 38 42 20.851	E 142 37 27.816
	1744.82	50.14	111.64	1606.12	427.51	-208.51	373.21	3.49	5714610.82	641263.96	S 38 42 21.104	E 142 37 28.653
	1773.18	53.83	111.56	1623.58	449.66	-216.73	393.99	3.90	5714602.59	641284.73	S 38 42 21.359	E 142 37 29.519
	1802.92	57.48	112.07	1640.36	474.02	-225.86	416.78	3.71	5714593.47	641307.52	S 38 42 21.641	E 142 37 30.468
	1832.14	60.75	112.81	1655.35	498.93	-235.43	439.95	3.42	5714583.90	641330.69	S 38 42 21.938	E 142 37 31.434
	1861.18	64.01	114.45	1668.81	524.54	-245.75	463.52	3.69	5714573.58	641354.25	S 38 42 22.259	E 142 37 32.417
	1889.06	67.45	115.13	1680.27	549.89	-256.41	486.59	3.76	5714562.93	641377.32	S 38 42 22.592	E 142 37 33.380
	1918.99	71.15	114.70	1690.85	577.81	-268.20	511.98	3.73	5714551.14	641402.70	S 38 42 22.959	E 142 37 34.439
	1946.70	75.01	115.29	1698.91	604.25	-279.40	536.00	4.22	5714539.94	641426.72	S 38 42 23.309	E 142 37 35.441
	1975.88	78.74	115.03	1705.54	632.60	-291.48	561.71	3.84	5714527.86	641452.43	S 38 42 23.685	E 142 37 36.514
	2005.06	82.46	115.16	1710.30	661.31	-303.69	587.78	3.83	5714515.66	641478.50	S 38 42 24.066	E 142 37 37.602
	2026.77	82.19	115.79	1713.20	682.79	-312.94	607.20	0.94	5714506.40	641497.92	S 38 42 24.355	E 142 37 38.412
Projected to TD	2047.00	82.15	116.38	1715.96	702.80	-321.75	625.20	0.87	5714497.59	641515.91	S 38 42 24.631	E 142 37 39.164

**Survey Type:** Definitive Survey

**Survey Error Model:** SLB ISCWSA version 24 \*\*\* 3-D 95.00% Confidence 2.7955 sigma

**Surveying Prog:**

**MD From ( m )**

**MD To ( m )**

**EOU Freq**

**Survey Tool Type**

**Borehole -> Survey**

0.00	88.50	Act-Stns	SLB_EMS-STD-Depth Only	Henry-2 -> Henry-2
88.50	634.07	Act-Stns	SLB_EMS-STD	Henry-2 -> Henry-2
634.07	1606.72	Act-Stns	SLB_MWD+SAG	Henry-2 -> Henry-2
1606.72	2047.00	Act-Stns	SLB_MWD+SAG	Henry-2DW1 -> Henry-2DW1

*\*Italicized stations are NOT used in position calculations.*