CBA A-33 Final Survey Report

Report Date:	June 24, 2009	**Survey / DLS Computation Method:**	Minimum Curvature / Lubinski
Client:	Esso Australia Pty Ltd	**Vertical Section Azimuth:**	207.230°
Field:	Cobia GDA 94	**Vertical Section Origin:**	S 2.700 m, E 8.710 m
Structure / Slot:	Cobia / 33	**TVD Reference Datum:**	RKB
Well:	33	**TVD Reference Elevation:**	41.0 m relative to MSL
Borehole:	CBA A-33	**Sea Bed / Ground Level Elevation:**	-79.000 m relative to MSL
UWI/API#:		**Magnetic Declination:**	13.218°
Survey Name / Date:	CBA A-33 Surveys / October 16, 2007	**Total Field Strength:**	59971.573 nT
Tort / AHD / DDI / ERD ratio:	62.829° / 600.30 m / 5.106 / 0.240	**Magnetic Dip:**	-68.860°
Grid Coordinate System:	GDA94/MGA94 Zone 55	**Declination Date:**	June 18, 2009
Location Lat/Long:	S 38 26 57.543, E 148 18 32.826	**Magnetic Declination Model:**	BGGM 2008
Location Grid N/E Y/X:	N 5743518.761 m, E 614234.558 m	**North Reference:**	Grid North
Grid Convergence Angle:	-0.81412671°	**Total Corr Mag North -> Grid North:**	+14.032°
Grid Scale Factor:	0.99976070	**Local Coordinates Referenced To:**	Structure Reference Point

Positions are calculated based on Grid North

Comments	Measured Depth (m)	Inclination (deg)	Grid North Azimuth (deg)	True North Azimuth (deg)	TVD (m)	Sub-Sea 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	-0.81	0.00	-40.99	0.00	-2.70	8.71	0.00	5743518.76	614234.56	S 38 26 57.543	E 148 18 32.826
	16.66	0.00	0.00	-0.81	16.66	-24.33	0.00	-2.70	8.71	0.00	5743518.76	614234.56	S 38 26 57.543	E 148 18 32.826
	36.66	0.24	294.89	294.08	36.66	-4.33	0.00	-2.68	8.67	0.36	5743518.78	614234.52	S 38 26 57.543	E 148 18 32.824
	38.66	0.25	303.61	302.80	38.66	-2.33	0.00	-2.68	8.66	0.58	5743518.78	614234.51	S 38 26 57.543	E 148 18 32.824
	40.66	0.23	259.46	258.65	40.66	-0.33	0.00	-2.68	8.66	2.72	5743518.78	614234.50	S 38 26 57.543	E 148 18 32.824
	42.66	0.18	292.07	291.26	42.66	1.67	0.01	-2.68	8.65	1.87	5743518.78	614234.50	S 38 26 57.543	E 148 18 32.824
	44.66	0.25	248.27	247.46	44.66	3.67	0.01	-2.68	8.64	2.60	5743518.78	614234.49	S 38 26 57.543	E 148 18 32.823
	46.66	0.17	292.97	292.16	46.66	5.67	0.01	-2.68	8.64	2.64	5743518.78	614234.48	S 38 26 57.543	E 148 18 32.823
	48.66	0.19	310.99	310.18	48.66	7.67	0.01	-2.67	8.63	0.90	5743518.79	614234.48	S 38 26 57.543	E 148 18 32.823
	50.66	0.17	259.27	258.46	50.66	9.67	0.01	-2.67	8.63	2.37	5743518.79	614234.47	S 38 26 57.543	E 148 18 32.823
	52.66	0.15	297.42	296.61	52.66	11.67	0.02	-2.67	8.62	1.59	5743518.79	614234.47	S 38 26 57.543	E 148 18 32.822
	54.66	0.26	223.06	222.25	54.66	13.67	0.02	-2.67	8.62	3.94	5743518.79	614234.46	S 38 26 57.543	E 148 18 32.822
	56.66	0.19	237.40	236.59	56.66	15.67	0.03	-2.68	8.61	1.34	5743518.78	614234.46	S 38 26 57.543	E 148 18 32.822
	58.66	0.18	256.40	255.59	58.66	17.67	0.03	-2.68	8.60	0.93	5743518.78	614234.45	S 38 26 57.543	E 148 18 32.822
	60.66	0.20	297.74	296.93	60.66	19.67	0.03	-2.68	8.60	2.03	5743518.78	614234.45	S 38 26 57.543	E 148 18 32.821
	62.66	0.24	276.40	275.59	62.66	21.67	0.04	-2.68	8.59	1.36	5743518.78	614234.44	S 38 26 57.543	E 148 18 32.821
	64.66	0.22	273.19	272.38	64.66	23.67	0.04	-2.68	8.58	0.36	5743518.78	614234.43	S 38 26 57.543	E 148 18 32.821
	66.66	0.29	249.88	249.07	66.66	25.67	0.04	-2.68	8.57	1.86	5743518.78	614234.42	S 38 26 57.543	E 148 18 32.820
	68.66	0.29	256.71	255.90	68.66	27.67	0.05	-2.68	8.56	0.52	5743518.78	614234.41	S 38 26 57.543	E 148 18 32.820
	70.66	0.27	270.40	269.59	70.66	29.67	0.06	-2.68	8.55	1.04	5743518.78	614234.40	S 38 26 57.543	E 148 18 32.820
	72.66	0.32	265.13	264.32	72.66	31.67	0.06	-2.68	8.54	0.85	5743518.78	614234.39	S 38 26 57.543	E 148 18 32.819
	74.66	0.30	298.10	297.29	74.66	33.67	0.06	-2.68	8.53	2.65	5743518.78	614234.38	S 38 26 57.543	E 148 18 32.819
	76.66	0.33	257.14	256.33	76.66	35.67	0.07	-2.68	8.52	3.33	5743518.78	614234.37	S 38 26 57.543	E 148 18 32.818
	78.66	0.29	290.54	289.73	78.66	37.67	0.07	-2.68	8.51	2.73	5743518.78	614234.36	S 38 26 57.543	E 148 18 32.818
	80.66	0.29	286.15	285.34	80.66	39.67	0.07	-2.68	8.50	0.33	5743518.78	614234.35	S 38 26 57.543	E 148 18 32.818
	82.66	0.33	279.92	279.11	82.66	41.67	0.08	-2.67	8.49	0.78	5743518.79	614234.34	S 38 26 57.543	E 148 18 32.817
	84.66	0.34	290.80	289.99	84.66	43.67	0.08	-2.67	8.48	0.96	5743518.79	614234.33	S 38 26 57.543	E 148 18 32.817
	86.66	0.34	294.63	293.82	86.66	45.67	0.08	-2.67	8.47	0.34	5743518.79	614234.32	S 38 26 57.543	E 148 18 32.816
	88.66	0.29	307.58	306.77	88.66	47.67	0.08	-2.66	8.46	1.30	5743518.80	614234.31	S 38 26 57.542	E 148 18 32.816
	90.66	0.26	281.54	280.73	90.66	49.67	0.08	-2.66	8.45	1.91	5743518.80	614234.30	S 38 26 57.542	E 148 18 32.815
	92.66	0.25	293.72	292.91	92.66	51.67	0.08	-2.65	8.44	0.83	5743518.81	614234.29	S 38 26 57.542	E 148 18 32.815
	94.66	0.25	302.92	302.11	94.66	53.67	0.08	-2.65	8.44	0.60	5743518.81	614234.28	S 38 26 57.542	E 148 18 32.815
	96.66	0.26	285.89	285.08	96.66	55.67	0.08	-2.65	8.43	1.14	5743518.81	614234.28	S 38 26 57.542	E 148 18 32.814
	98.66	0.25	302.46	301.65	98.66	57.67	0.08	-2.64	8.42	1.11	5743518.82	614234.27	S 38 26 57.542	E 148 18 32.814
	100.66	0.22	293.72	292.91	100.66	59.67	0.08	-2.64	8.41	0.70	5743518.82	614234.26	S 38 26 57.542	E 148 18 32.814
	102.66	0.23	282.98	282.17	102.66	61.67	0.08	-2.64	8.41	0.65	5743518.82	614234.25	S 38 26 57.542	E 148 18 32.813
	104.66	0.19	278.57	277.76	104.66	63.67	0.08	-2.64	8.40	0.65	5743518.83	614234.25	S 38 26 57.542	E 148 18 32.813
	106.66	0.21	273.94	273.13	106.66	65.67	0.09	-2.63	8.39	0.39	5743518.83	614234.24	S 38 26 57.542	E 148 18 32.813
	108.66	0.21	270.34	269.53	108.66	67.67	0.09	-2.63	8.38	0.20	5743518.83	614234.23	S 38 26 57.542	E 148 18 32.813
	110.66	0.24	288.48	287.67	110.66	69.67	0.09	-2.63	8.38	1.15	5743518.83	614234.22	S 38 26 57.541	E 148 18 32.812
	112.66	0.25	293.12	292.31	112.66	71.67	0.09	-2.63	8.37	0.33	5743518.83	614234.22	S 38 26 57.541	E 148 18 32.812
	114.66	0.21	265.48	264.67	114.66	73.67	0.10	-2.63	8.36	1.75	5743518.83	614234.21	S 38 26 57.541	E 148 18 32.812
	116.66	0.19	242.45	241.64	116.66	75.67	0.10	-2.63	8.35	1.23	5743518.83	614234.20	S 38 26 57.541	E 148 18 32.811
	118.66	0.25	225.46	224.65	118.66	77.67	0.11	-2.63	8.35	1.32	5743518.83	614234.20	S 38 26 57.542	E 148 18 32.811
	120.76	0.29	213.32	212.51	120.76	79.77	0.12	-2.64	8.34	0.99	5743518.82	614234.19	S 38 26 57.542	E 148 18 32.811
	122.66	0.39	203.57	202.76	122.66	81.67	0.13	-2.65	8.34	1.82	5743518.81	614234.19	S 38 26 57.542	E 148 18 32.811
	124.66	0.51	197.13	196.32	124.66	83.67	0.14	-2.67	8.33	1.95	5743518.79	614234.18	S 38 26 57.543	E 148 18 32.810
	126.66	0.68	191.96	191.15	126.66	85.67	0.16	-2.69	8.33	2.67	5743518.77	614234.17	S 38 26 57.543	E 148 18 32.810
	128.66	0.87	189.82	189.01	128.66	87.67	0.19	-2.71	8.32	2.88	5743518.75	614234.17	S 38 26 57.544	E 148 18 32.810
	130.66	0.97	187.72	186.91	130.66	89.67	0.22	-2.75	8.32	1.58	5743518.72	614234.16	S 38 26 57.545	E 148 18 32.810

Comments	Measured Depth (m)	Inclination (deg)	Grid North Azimuth (deg)	True North Azimuth (deg)	TVD (m)	Sub-Sea TVD (m)	Vertical Section (m)	NS Grid North (m)	EW Grid North (m)	DLS (deg/30 m)	Northing (m)	Easting (m)	Latitude	Longitude
	132.66	1.25	187.37	186.56	132.66	91.67	0.26	-2.78	8.31	4.20	5743518.68	614234.16	S 38 26 57.546	E 148 18 32.810
	134.66	1.40	186.55	185.74	134.66	93.67	0.30	-2.83	8.31	2.27	5743518.63	614234.15	S 38 26 57.548	E 148 18 32.809
	136.66	1.66	186.65	185.84	136.66	95.67	0.35	-2.88	8.30	3.90	5743518.58	614234.15	S 38 26 57.550	E 148 18 32.809
	138.76	1.90	186.78	185.97	138.76	97.77	0.41	-2.95	8.29	3.43	5743518.51	614234.14	S 38 26 57.552	E 148 18 32.809
	140.66	2.12	187.54	186.73	140.65	99.67	0.47	-3.01	8.28	3.50	5743518.45	614234.13	S 38 26 57.554	E 148 18 32.809
	142.66	2.37	188.74	187.93	142.65	101.67	0.55	-3.09	8.27	3.82	5743518.37	614234.12	S 38 26 57.556	E 148 18 32.808
	144.66	2.64	189.86	189.05	144.65	103.66	0.63	-3.18	8.26	4.12	5743518.28	614234.11	S 38 26 57.559	E 148 18 32.808
	146.66	2.85	190.62	189.81	146.65	105.66	0.72	-3.27	8.24	3.20	5743518.19	614234.09	S 38 26 57.562	E 148 18 32.807
	148.66	3.07	191.59	190.78	148.65	107.66	0.82	-3.37	8.22	3.38	5743518.09	614234.07	S 38 26 57.566	E 148 18 32.806
	150.66	3.34	192.90	192.09	150.64	109.66	0.93	-3.48	8.20	4.20	5743517.98	614234.05	S 38 26 57.569	E 148 18 32.805
	152.66	3.59	194.13	193.32	152.64	111.65	1.05	-3.60	8.17	3.91	5743517.86	614234.02	S 38 26 57.573	E 148 18 32.804
	154.66	3.82	195.57	194.76	154.64	113.65	1.17	-3.72	8.14	3.72	5743517.74	614233.98	S 38 26 57.577	E 148 18 32.803
	156.66	3.94	196.59	195.78	156.63	115.64	1.31	-3.85	8.10	2.08	5743517.61	614233.95	S 38 26 57.581	E 148 18 32.802
	158.66	4.15	198.51	197.70	158.63	117.64	1.45	-3.99	8.06	3.75	5743517.47	614233.90	S 38 26 57.586	E 148 18 32.800
	160.66	4.32	200.37	199.56	160.62	119.63	1.59	-4.13	8.01	3.28	5743517.33	614233.86	S 38 26 57.590	E 148 18 32.798
	162.66	4.46	202.53	201.72	162.61	121.63	1.74	-4.27	7.95	3.25	5743517.19	614233.80	S 38 26 57.595	E 148 18 32.796
	164.66	4.70	204.24	203.43	164.61	123.62	1.90	-4.42	7.89	4.14	5743517.04	614233.74	S 38 26 57.600	E 148 18 32.793
	166.66	4.88	205.96	205.15	166.60	125.61	2.07	-4.57	7.82	3.45	5743516.89	614233.66	S 38 26 57.605	E 148 18 32.790
	168.66	4.99	208.02	207.21	168.59	127.61	2.24	-4.72	7.74	3.13	5743516.74	614233.59	S 38 26 57.610	E 148 18 32.787
	170.66	5.05	210.33	209.52	170.59	129.60	2.42	-4.87	7.65	3.16	5743516.59	614233.50	S 38 26 57.615	E 148 18 32.784
	172.66	5.21	212.62	211.81	172.58	131.59	2.60	-5.03	7.56	3.90	5743516.43	614233.41	S 38 26 57.619	E 148 18 32.780
	174.66	5.26	214.97	214.16	174.57	133.58	2.78	-5.18	7.46	3.30	5743516.28	614233.31	S 38 26 57.624	E 148 18 32.776
	176.66	5.38	216.71	215.90	176.56	135.57	2.96	-5.33	7.35	3.02	5743516.13	614233.20	S 38 26 57.629	E 148 18 32.771
	178.66	5.47	218.25	217.44	178.55	137.56	3.15	-5.48	7.23	2.57	5743515.98	614233.08	S 38 26 57.634	E 148 18 32.767
	180.66	5.46	220.58	219.77	180.54	139.55	3.33	-5.63	7.11	3.33	5743515.84	614232.96	S 38 26 57.639	E 148 18 32.762
	182.66	5.57	222.21	221.40	182.53	141.55	3.52	-5.77	6.99	2.87	5743515.69	614232.84	S 38 26 57.644	E 148 18 32.757
	184.66	5.51	224.72	223.91	184.52	143.54	3.70	-5.91	6.85	3.74	5743515.55	614232.70	S 38 26 57.648	E 148 18 32.751
	187.46	5.48	227.37	226.56	187.31	146.32	3.96	-6.10	6.66	2.74	5743515.36	614232.51	S 38 26 57.655	E 148 18 32.744
	189.00	5.52	225.24	224.43	188.84	147.86	4.10	-6.20	6.55	4.06	5743515.26	614232.40	S 38 26 57.658	E 148 18 32.739
	194.00	5.61	227.76	226.95	193.82	152.83	4.55	-6.53	6.20	1.56	5743514.93	614232.05	S 38 26 57.669	E 148 18 32.725
	196.67	5.54	228.80	227.99	196.48	155.49	4.80	-6.70	6.01	1.38	5743514.76	614231.86	S 38 26 57.675	E 148 18 32.717
	209.16	5.89	229.07	228.26	208.91	167.92	5.95	-7.52	5.07	0.84	5743513.94	614230.92	S 38 26 57.702	E 148 18 32.679
	217.66	6.33	225.20	224.39	217.36	176.37	6.80	-8.14	4.41	2.13	5743513.32	614230.26	S 38 26 57.722	E 148 18 32.652
	227.85	7.48	218.96	218.15	227.47	186.49	7.99	-9.05	3.59	4.04	5743512.41	614229.44	S 38 26 57.752	E 148 18 32.619
	251.74	8.80	209.91	209.10	251.12	210.14	11.33	-11.84	1.70	2.31	5743509.62	614227.55	S 38 26 57.843	E 148 18 32.543
	267.36	9.50	202.96	202.15	266.55	225.56	13.81	-14.07	0.61	2.51	5743507.40	614226.46	S 38 26 57.916	E 148 18 32.499
	281.30	9.77	197.69	196.88	280.29	239.30	16.13	-16.25	-0.20	1.98	5743505.21	614225.65	S 38 26 57.987	E 148 18 32.466
	310.66	9.68	198.83	198.02	309.23	268.24	21.03	-20.96	-1.76	0.22	5743500.50	614224.09	S 38 26 58.140	E 148 18 32.405
	339.16	9.77	199.97	199.16	337.32	296.33	25.80	-25.50	-3.36	0.22	5743495.96	614222.50	S 38 26 58.288	E 148 18 32.342
	369.16	10.73	198.83	198.02	366.84	325.85	31.08	-30.54	-5.13	0.98	5743490.93	614220.73	S 38 26 58.453	E 148 18 32.272
	397.59	12.23	198.57	197.76	394.70	353.71	36.68	-35.90	-6.94	1.58	5743485.57	614218.91	S 38 26 58.627	E 148 18 32.200
	428.70	13.90	198.57	197.76	425.00	384.01	43.63	-42.56	-9.18	1.61	5743478.91	614216.67	S 38 26 58.844	E 148 18 32.112
	456.74	14.08	198.48	197.67	452.21	411.22	50.33	-48.99	-11.33	0.19	5743472.48	614214.52	S 38 26 59.054	E 148 18 32.027
	486.51	13.55	199.01	198.20	481.12	440.13	57.36	-55.72	-13.62	0.55	5743465.75	614212.24	S 38 26 59.273	E 148 18 31.936
	511.01	14.08	199.10	198.29	504.91	463.92	63.15	-61.25	-15.53	0.65	5743460.22	614210.33	S 38 26 59.453	E 148 18 31.861
	544.75	14.60	200.15	199.34	537.60	496.61	71.44	-69.12	-18.33	0.52	5743452.35	614207.52	S 38 26 59.710	E 148 18 31.750
	573.45	14.78	200.06	199.25	565.36	524.37	78.66	-75.96	-20.84	0.19	5743445.52	614205.02	S 38 26 59.933	E 148 18 31.651
	584.77	14.87	200.33	199.52	576.30	535.32	81.53	-78.68	-21.84	0.30	5743442.80	614204.02	S 38 27 0.021	E 148 18 31.611
	625.93	15.90	204.02	203.21	615.99	575.00	92.41	-88.78	-25.97	1.04	5743432.70	614199.89	S 38 27 0.351	E 148 18 31.447
	655.19	16.22	209.88	209.07	644.11	603.12	100.49	-95.98	-29.63	1.69	5743425.50	614196.22	S 38 27 0.586	E 148 18 31.300
	684.66	15.92	210.09	209.28	672.43	631.44	108.64	-103.05	-33.71	0.31	5743418.44	614192.15	S 38 27 0.817	E 148 18 31.136
	713.95	16.16	209.41	208.60	700.58	659.59	116.72	-110.08	-37.73	0.31	5743411.41	614188.13	S 38 27 1.047	E 148 18 30.974
	743.19	15.68	208.22	207.41	728.70	687.71	124.74	-117.10	-41.59	0.60	5743404.39	614184.27	S 38 27 1.276	E 148 18 30.819
	772.40	14.98	208.55	207.74	756.87	715.88	132.46	-123.90	-45.26	0.72	5743397.59	614180.60	S 38 27 1.498	E 148 18 30.671
	801.40	14.91	209.56	208.75	784.89	743.90	139.94	-130.43	-48.90	0.28	5743391.06	614176.97	S 38 27 1.712	E 148 18 30.525
	830.63	14.94	208.77	207.96	813.13	772.14	147.46	-137.01	-52.56	0.21	5743384.49	614173.30	S 38 27 1.927	E 148 18 30.378
	859.76	15.02	208.82	208.01	841.27	800.28	154.99	-143.61	-56.19	0.08	5743377.89	614169.67	S 38 27 2.143	E 148 18 30.232
	889.23	14.88	208.70	207.89	869.74	828.75	162.59	-150.27	-59.85	0.15	5743371.23	614166.02	S 38 27 2.360	E 148 18 30.085
	918.51	14.66	208.30	207.49	898.05	857.07	170.05	-156.83	-63.41	0.25	5743364.67	614162.45	S 38 27 2.575	E 148 18 29.942
	947.98	14.89	209.02	208.21	926.55	885.56	177.56	-163.42	-67.02	0.30	5743358.07	614158.85	S 38 27 2.790	E 148 18 29.798
	977.14	14.96	209.35	208.54	954.73	913.74	185.07	-169.98	-70.68	0.11	5743351.52	614155.19	S 38 27 3.005	E 148 18 29.650
	1006.32	14.71	208.53	207.72	982.93	941.95	192.54	-176.52	-74.29	0.34	5743344.98	614151.57	S 38 27 3.218	E 148 18 29.505
	1035.66	14.82	209.66	208.85	1011.31	970.32	200.01	-183.05	-77.93	0.32	5743338.45	614147.94	S 38 27 3.432	E 148 18 29.359
	1064.89	14.66	209.55	208.74	1039.57	998.59	207.44	-189.52	-81.60	0.17	5743331.99	614144.27	S 38 27 3.643	E 148 18 29.211
	1094.20	14.74	211.09	210.28	1067.92	1026.94	214.87	-195.94	-85.36	0.41	5743325.57	614140.51	S 38 27 3.853	E 148 18 29.060
	1123.53	14.71	211.77	210.96	1096.29	1055.30	222.30	-202.30	-89.25	0.18	5743319.21	614136.63	S 38 27 4.061	E 148 18 28.904
	1152.85	15.04	212.46	211.65	1124.63	1083.64	229.80	-208.67	-93.25	0.38	5743312.84	614132.63	S 38 27 4.270	E 148 18 28.742
	1182.12	14.69	209.57	208.76	1152.92	1111.93	237.29	-215.11	-97.12	0.84	5743306.40	614128.76	S 38 27 4.480	E 148 18 28.587
	1211.30	14.68	206.12	205.31	1181.15	1140.16	244.68	-221.64	-100.57	0.90	5743299.87	614125.30	S 38 27 4.694	E 148 18 28.448

Comments	Measured Depth (m)	Inclination (deg)	Grid North Azimuth (deg)	True North Azimuth (deg)	TVD (m)	Sub-Sea TVD (m)	Vertical Section (m)	NS Grid North (m)	EW Grid North (m)	DLS (deg/30 m)	Northing (m)	Easting (m)	Latitude	Longitude
	1240.74	14.15	206.77	205.96	1209.66	1168.67	252.01	-228.21	-103.83	0.56	5743293.31	614122.04	S 38 27 4.908	E 148 18 28.317
	1269.92	13.90	210.27	209.46	1237.97	1196.98	259.08	-234.42	-107.21	0.91	5743287.10	614118.67	S 38 27 5.111	E 148 18 28.182
	1299.50	13.73	213.99	213.18	1266.69	1225.71	266.11	-240.40	-110.96	0.92	5743281.12	614114.92	S 38 27 5.307	E 148 18 28.030
	1328.69	13.96	212.17	211.36	1295.04	1254.05	273.06	-246.25	-114.77	0.51	5743275.27	614111.11	S 38 27 5.498	E 148 18 27.877
	1357.81	14.35	210.06	209.25	1323.27	1282.29	280.16	-252.35	-118.45	0.67	5743269.17	614107.43	S 38 27 5.698	E 148 18 27.729
	1387.06	14.47	208.60	207.79	1351.60	1310.61	287.44	-258.69	-122.01	0.39	5743262.83	614103.86	S 38 27 5.905	E 148 18 27.585
	1416.40	14.49	205.63	204.82	1380.01	1339.02	294.77	-265.22	-125.36	0.76	5743256.30	614100.52	S 38 27 6.118	E 148 18 27.451
	1445.66	14.27	203.93	203.12	1408.35	1367.37	302.03	-271.82	-128.40	0.49	5743249.71	614097.48	S 38 27 6.333	E 148 18 27.330
	1474.99	14.64	207.57	206.76	1436.76	1395.77	309.35	-278.41	-131.58	1.00	5743243.12	614094.30	S 38 27 6.549	E 148 18 27.202
	1504.27	14.41	209.48	208.67	1465.10	1424.11	316.69	-284.86	-135.09	0.54	5743236.67	614090.79	S 38 27 6.759	E 148 18 27.061
	1533.67	14.42	207.32	206.51	1493.58	1452.59	324.00	-291.30	-138.57	0.55	5743230.23	614087.31	S 38 27 6.970	E 148 18 26.922
	1562.71	14.32	206.77	205.96	1521.71	1480.72	331.21	-297.71	-141.85	0.17	5743223.82	614084.04	S 38 27 7.179	E 148 18 26.790
	1592.18	14.27	205.46	204.65	1550.26	1509.28	338.48	-304.25	-145.05	0.33	5743217.28	614080.83	S 38 27 7.393	E 148 18 26.662
	1621.56	15.02	205.25	204.44	1578.69	1537.70	345.91	-310.96	-148.23	0.77	5743210.57	614077.65	S 38 27 7.612	E 148 18 26.535
	1650.85	14.85	205.80	204.99	1606.99	1566.00	353.45	-317.77	-151.48	0.23	5743203.76	614074.40	S 38 27 7.834	E 148 18 26.405
	1680.39	14.93	206.81	206.00	1635.54	1594.55	361.04	-324.58	-154.85	0.28	5743196.96	614071.04	S 38 27 8.057	E 148 18 26.270
	1709.10	15.86	206.11	205.30	1663.22	1622.23	368.66	-331.40	-158.24	0.99	5743190.14	614067.65	S 38 27 8.279	E 148 18 26.134
	1738.52	15.34	203.39	202.58	1691.55	1650.57	376.57	-338.58	-161.56	0.92	5743182.96	614064.33	S 38 27 8.514	E 148 18 26.001
	1767.97	15.56	201.42	200.61	1719.94	1678.95	384.38	-345.83	-164.55	0.58	5743175.71	614061.34	S 38 27 8.750	E 148 18 25.882
	1797.30	15.79	203.69	202.88	1748.18	1707.19	392.28	-353.15	-167.59	0.67	5743168.39	614058.30	S 38 27 8.989	E 148 18 25.761
	1826.72	15.68	205.51	204.70	1776.50	1735.51	400.25	-360.40	-170.91	0.52	5743161.14	614054.98	S 38 27 9.226	E 148 18 25.629
	1856.15	15.77	207.85	207.04	1804.83	1763.84	408.22	-367.53	-174.49	0.65	5743154.02	614051.40	S 38 27 9.458	E 148 18 25.485
	1885.47	15.47	210.31	209.50	1833.06	1792.08	416.11	-374.43	-178.32	0.74	5743147.12	614047.57	S 38 27 9.684	E 148 18 25.331
	1914.60	15.71	208.22	207.41	1861.12	1820.13	423.93	-381.26	-182.15	0.63	5743140.29	614043.75	S 38 27 9.907	E 148 18 25.177
	1943.73	15.58	205.83	205.02	1889.17	1848.19	431.79	-388.25	-185.72	0.68	5743133.30	614040.18	S 38 27 10.136	E 148 18 25.034
	1973.09	15.56	203.40	202.59	1917.46	1876.47	439.66	-395.42	-189.00	0.67	5743126.14	614036.90	S 38 27 10.369	E 148 18 24.903
	2002.63	15.54	205.83	205.02	1945.92	1904.93	447.57	-402.61	-192.30	0.66	5743118.94	614033.60	S 38 27 10.604	E 148 18 24.771
	2031.86	15.58	209.23	208.42	1974.07	1933.09	455.41	-409.56	-195.92	0.94	5743111.99	614029.98	S 38 27 10.831	E 148 18 24.626
	2061.17	15.43	212.43	211.62	2002.32	1961.33	463.22	-416.29	-199.93	0.89	5743105.27	614025.97	S 38 27 11.051	E 148 18 24.464
	2090.40	15.47	215.54	214.73	2030.49	1989.50	470.95	-422.75	-204.28	0.85	5743098.82	614021.62	S 38 27 11.263	E 148 18 24.289
	2119.77	15.10	213.93	213.12	2058.82	2017.84	478.63	-429.11	-208.70	0.58	5743092.46	614017.20	S 38 27 11.471	E 148 18 24.111
	2148.86	15.06	211.56	210.75	2086.91	2045.92	486.16	-435.47	-212.79	0.64	5743086.09	614013.11	S 38 27 11.679	E 148 18 23.945
	2178.21	15.05	209.16	208.35	2115.26	2074.27	493.77	-442.05	-216.64	0.64	5743079.52	614009.26	S 38 27 11.894	E 148 18 23.790
	2207.53	15.15	206.46	205.65	2143.56	2102.58	501.41	-448.80	-220.20	0.73	5743072.77	614005.70	S 38 27 12.115	E 148 18 23.648
	2236.73	15.13	203.55	202.74	2171.75	2130.76	509.02	-455.71	-223.43	0.78	5743065.86	614002.48	S 38 27 12.340	E 148 18 23.519
	2265.88	15.16	202.00	201.19	2199.89	2158.90	516.62	-462.73	-226.37	0.42	5743058.84	613999.53	S 38 27 12.570	E 148 18 23.401
	2295.20	15.30	205.05	204.24	2228.18	2187.19	524.30	-469.79	-229.45	0.83	5743051.78	613996.46	S 38 27 12.800	E 148 18 23.279
	2324.26	15.12	207.01	206.20	2256.22	2215.23	531.92	-476.64	-232.79	0.56	5743044.93	613993.11	S 38 27 13.024	E 148 18 23.145
	2353.69	14.98	208.10	207.29	2284.64	2243.65	539.56	-483.42	-236.33	0.32	5743038.16	613989.58	S 38 27 13.245	E 148 18 23.003
	2382.99	14.97	208.38	207.57	2312.95	2271.96	547.13	-490.09	-239.91	0.07	5743031.49	613986.00	S 38 27 13.463	E 148 18 22.859
	2412.25	14.90	210.09	209.28	2341.22	2300.23	554.67	-496.67	-243.59	0.46	5743024.91	613982.32	S 38 27 13.678	E 148 18 22.711
	2441.61	14.90	210.72	209.91	2369.59	2328.60	562.21	-503.18	-247.41	0.17	5743018.40	613978.50	S 38 27 13.891	E 148 18 22.557
	2470.87	15.14	212.27	211.46	2397.85	2356.86	569.77	-509.64	-251.37	0.48	5743011.94	613974.54	S 38 27 14.102	E 148 18 22.398
	2499.77	15.34	211.52	210.71	2425.74	2384.75	577.34	-516.09	-255.39	0.29	5743005.49	613970.52	S 38 27 14.313	E 148 18 22.236
	2529.30	15.41	207.80	206.99	2454.21	2413.22	585.16	-522.89	-259.26	1.00	5742998.69	613966.65	S 38 27 14.535	E 148 18 22.080
	2558.69	15.28	203.33	202.52	2482.55	2441.56	592.93	-529.90	-262.61	1.21	5742991.68	613963.30	S 38 27 14.764	E 148 18 21.946
Projected @ TD	2579.00	15.20	202.50	201.69	2502.15	2461.16	598.25	-534.82	-264.69	0.34	5742986.77	613961.22	S 38 27 14.925	E 148 18 21.863

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	119.99	Act-Stns	SLB_CNSG+CASING-Depth Only	CBA A-33 -> CBA A-33 Surveys
119.99	187.46	Act-Stns	SLB_CNSG+CASING	CBA A-33 -> CBA A-33 Surveys
187.46	194.00	Act-Stns	SLB_CNSG+DPIPE	CBA A-33 -> CBA A-33 Surveys
194.00	584.77	Act-Stns	SLB_GYRO-MWD	CBA A-33 -> CBA A-33 Surveys
584.77	2558.69	Act-Stns	SLB_MWD+GMAG	CBA A-33 -> CBA A-33 Surveys
2558.69	2579.00	Act-Stns	SLB_BLIND+TREND	CBA A-33 -> CBA A-33 Surveys

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