

WKF W12a - Final Definitive - Survey Report

(Def Survey)

Report Date: November 24, 2009 - 03:18 PM
Client: Esso Australia Pty Ltd
Field: Esso/Kingfish/VIC/L7
Structure / Slot: West Kingfish / 12
Well: 12
Borehole: WKF W-12A @ RTE 41.7m
UWI / AP#: Borehole-1500326 / Unknown
Survey Name: WKF W12a - Final Definitive - BB
Survey Date: November 24, 2009
Tort / AHD / DDI / ERD Ratio: 91.540 ° / 252.937 m / 4.884 / 0.104
Grid Coordinate System: GDA94/MGA94 Zone 55 Austr Geodetic Datum 94/Austr Map Grid 94
Location Lat / Long: S 38°35' 34.76816", E 148° 6' 19.49714"
Location Grid N/E Y/X: N 5727808.731 m, E 596267.198 m
Grid Convergence Angle: -0.68959364 °
Grid Scale Factor: 0.99971412

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 19.150 ° (Grid North)
Vertical Section Origin: -6.958 m, 12.476 m
TVD Reference Datum: Rotary Table
TVD Reference Elevation: 41.700 m above MSL
Seagbed / Ground Elevation: 77.000 m below MSL
Magnetic Declination: 13.224 °
Total Field Strength: 60057.209 nT
Magnetic Dip Angle: -68.999 °
Declination Date: November 24, 2009
Magnetic Declination Model: BGGM 2009
North Reference: Grid North
Grid Correction: -0.690 °
Total Corr Mag North->Grid North: 13.914 °
Local Coord Referenced To: Structure Reference Point

Positions are calculated based on Grid North.

Comments	MD (m)	Incl (°)	Azim Grid (°)	Azim True (°)	TVD (m)	TVDSS (m)	VSEC (m)	NS (m)	EW (m)	DLS (m)	Northing (m)	Easting (m)	Latitude (N/S °)	Longitude (E/W °)
Tie-In	0.00	0.00	0.00	-0.69	0.00	-41.70	1.65	-2.32	4.16	0.00	5727808.73	596267.20	S 38 35 34.77	E 148 6 19.50
	7.50	0.00	0.00	-0.69	7.50	-34.20	1.65	-2.32	4.16	0.00	5727808.73	596267.20	S 38 35 34.77	E 148 6 19.50
	206.50	3.00	260.00	259.31	206.41	164.71	-0.88	-3.22	-0.97	0.45	5727807.83	596262.07	S 38 35 34.80	E 148 6 19.29
	216.50	4.50	273.00	272.31	216.39	174.69	-1.12	-3.25	-1.62	5.14	5727807.80	596261.42	S 38 35 34.80	E 148 6 19.26
	234.50	7.00	287.00	286.31	234.30	192.60	-1.36	-2.89	-3.37	4.75	5727808.16	596259.67	S 38 35 34.79	E 148 6 19.19
	243.50	8.50	288.00	287.31	243.21	201.51	-1.39	-2.53	-4.53	5.02	5727808.53	596258.51	S 38 35 34.78	E 148 6 19.14
	253.50	8.50	288.00	287.31	253.10	211.40	-1.42	-2.07	-5.94	0.00	5727808.98	596257.10	S 38 35 34.76	E 148 6 19.08
	263.50	8.75	289.00	288.31	262.99	221.29	-1.44	-1.59	-7.36	0.87	5727809.46	596255.68	S 38 35 34.75	E 148 6 19.02
	282.50	9.25	293.00	292.31	281.76	240.06	-1.34	-0.53	-10.13	1.26	5727810.53	596252.91	S 38 35 34.72	E 148 6 18.91
	300.50	9.75	292.00	291.31	299.51	257.81	-1.17	0.61	-12.88	0.88	5727811.66	596250.50	S 38 35 34.68	E 148 6 18.79
	321.50	11.00	293.00	292.31	320.17	278.47	-0.94	2.06	-16.37	1.80	5727813.11	596246.68	S 38 35 34.63	E 148 6 18.65
	341.50	10.25	292.00	291.31	339.82	288.12	-0.73	3.47	-19.78	1.16	5727814.52	596243.27	S 38 35 34.59	E 148 6 18.51
	360.50	9.75	291.00	290.31	358.53	316.83	-0.59	4.68	-22.85	0.84	5727815.73	596240.20	S 38 35 34.55	E 148 6 18.38
	389.50	10.00	291.00	290.31	387.11	345.41	-0.43	6.46	-27.49	0.26	5727817.51	596235.56	S 38 35 34.50	E 148 6 18.19
	418.50	9.50	291.00	290.31	415.69	373.99	-0.27	8.22	-32.07	0.52	5727819.27	596230.98	S 38 35 34.44	E 148 6 17.99
	447.50	8.75	292.00	291.31	444.32	402.62	-0.09	9.91	-36.35	0.79	5727820.96	596226.70	S 38 35 34.39	E 148 6 17.82
	466.50	7.50	289.00	288.31	463.13	421.43	-0.02	10.85	-38.87	2.08	5727821.90	596224.19	S 38 35 34.36	E 148 6 17.71
	505.50	5.50	293.00	292.31	501.88	460.18	0.10	12.41	-42.99	1.58	5727823.46	596220.06	S 38 35 34.31	E 148 6 17.54
	562.50	3.00	296.00	295.31	558.71	517.01	0.46	14.13	-46.85	1.32	5727825.18	596216.20	S 38 35 34.25	E 148 6 17.38
	626.53	2.02	301.08	300.39	622.68	580.98	0.80	15.45	-49.32	0.47	5727826.50	596213.73	S 38 35 34.21	E 148 6 17.28
	646.77	2.86	20.88	20.19	642.90	601.22	1.62	16.24	-49.40	5.71	5727827.28	596213.66	S 38 35 34.19	E 148 6 17.28
	656.61	4.55	22.13	21.44	652.72	611.02	2.32	16.89	-49.14	2.73	5727827.94	596213.92	S 38 35 34.17	E 148 6 17.29
	685.69	8.33	21.52	20.83	681.61	639.91	5.58	19.92	-47.93	3.90	5727830.97	596215.12	S 38 35 34.07	E 148 6 17.33
	714.73	9.35	21.05	20.36	710.30	668.60	10.04	24.08	-46.31	1.06	5727835.13	596216.74	S 38 35 33.93	E 148 6 17.40
	744.08	9.70	21.95	21.26	739.25	697.55	14.89	28.60	-44.53	0.39	5727839.64	596218.52	S 38 35 33.78	E 148 6 17.47
	773.27	9.46	16.40	15.71	768.03	726.33	19.74	33.18	-42.93	0.98	5727844.22	596220.12	S 38 35 33.64	E 148 6 17.53
	802.85	9.26	13.23	12.54	797.22	755.52	24.54	37.83	-41.70	0.56	5727848.87	596221.35	S 38 35 33.48	E 148 6 17.58
	832.02	9.27	11.81	11.12	826.01	784.31	29.20	42.42	-40.68	0.24	5727853.45	596222.37	S 38 35 33.33	E 148 6 17.62
	861.40	9.32	11.66	10.97	855.00	813.30	33.91	47.06	-39.72	0.06	5727858.10	596223.33	S 38 35 33.18	E 148 6 17.66
	890.64	8.69	12.79	12.10	883.88	842.18	38.45	51.53	-38.75	0.67	5727862.57	596224.30	S 38 35 33.04	E 148 6 17.70
	919.93	9.08	19.27	18.58	912.82	871.12	42.96	55.87	-37.50	1.10	5727866.91	596225.55	S 38 35 32.90	E 148 6 17.75
	949.14	8.96	17.29	16.60	941.67	899.97	47.54	60.22	-36.06	0.34	5727871.25	596226.99	S 38 35 32.76	E 148 6 17.80
	978.16	8.79	14.85	14.16	970.34	928.64	52.01	64.52	-34.82	0.43	5727875.55	596228.23	S 38 35 32.62	E 148 6 17.85
	1007.71	9.41	13.06	12.37	999.52	957.82	56.66	69.06	-33.70	0.69	5727880.09	596229.35	S 38 35 32.47	E 148 6 17.90
	1036.88	8.46	15.85	15.16	1028.34	986.64	61.18	73.45	-32.57	1.07	5727884.48	596230.48	S 38 35 32.33	E 148 6 17.94
	1066.29	8.66	31.20	30.51	1057.42	1015.72	65.50	77.42	-30.84	2.33	5727888.45	596232.21	S 38 35 32.20	E 148 6 18.01
	1095.65	9.11	41.94	41.25	1086.43	1044.73	69.81	81.94	-28.14	1.75	5727892.07	596234.91	S 38 35 32.08	E 148 6 18.12
	1125.06	9.44	34.42	33.73	1115.46	1073.76	74.28	84.76	-25.22	1.28	5727895.79	596237.83	S 38 35 31.96	E 148 6 18.24
	1154.05	9.63	27.44	26.75	1144.05	1102.35	78.97	88.88	-22.76	1.21	5727899.90	596240.29	S 38 35 31.82	E 148 6 18.34
	1183.48	9.60	20.06	19.37	1173.07	1131.37	83.86	93.37	-20.78	1.26	5727904.39	596242.27	S 38 35 31.68	E 148 6 18.42
	1212.66	8.94	14.68	13.99	1201.87	1160.17	88.56	97.85	-19.37	1.12	5727908.87	596243.68	S 38 35 31.53	E 148 6 18.48
	1241.60	9.05	16.97	16.28	1230.45	1188.75	93.07	102.20	-18.14	0.39	5727913.22	596244.91	S 38 35 31.39	E 148 6 18.52
	1271.30	8.65	20.23	19.54	1259.80	1218.10	97.64	106.53	-16.68	0.65	5727917.55	596246.36	S 38 35 31.25	E 148 6 18.58
	1300.70	8.80	20.89	20.20	1288.86	1247.16	102.10	110.70	-15.12	0.18	5727921.72	596247.93	S 38 35 31.11	E 148 6 18.64
	1329.76	8.90	19.33	18.64	1317.57	1275.87	106.57	114.90	-13.58	0.27	5727925.92	596249.47	S 38 35 30.97	E 148 6 18.71
	1358.94	8.89	6.87	6.18	1346.40	1304.70	111.03	119.27	-12.56	1.98	5727930.29	596250.48	S 38 35 30.83	E 148 6 18.75
	1388.26	8.69	2.85	2.16	1375.38	1333.68	115.37	123.73	-12.18	0.66	5727934.75	596250.86	S 38 35 30.69	E 148 6 18.76
	1417.51	8.70	10.24	9.55	1404.29	1362.59	119.68	128.12	-11.68	1.15	5727939.13	596251.57	S 38 35 30.54	E 148 6 18.78
	1446.94	9.09	7.11	6.42	1433.37	1391.67	124.15	132.61	-10.99	0.63	5727943.62	596252.05	S 38 35 30.40	E 148 6 18.80
	1476.39	7.76	8.46	7.77	1462.50	1420.80	128.38	136.89	-10.41	1.37	5727947.90	596252.63	S 38 35 30.26	E 148 6 18.83
	1505.59	8.16	16.27	15.58	1491.42	1449.72	132.38	140.83	-9.54	1.18	5727951.84	596253.50	S 38 35 30.13	E 148 6 18.86
	1534.75	8.56	23.45	22.76	1520.27	1478.57	136.61	144.80	-8.10	1.15	5727955.81	596254.94	S 38 35 30.00	E 148 6 18.92
	1563.84	8.66	24.16	23.47	1549.03	1507.33	140.96	148.79	-6.34	0.15	5727959.80	596256.70	S 38 35 29.87	E 148 6 18.99
	1593.11	8.70	24.23	23.54	1577.97	1536.27	145.36	152.82	-4.53	0.04	5727963.82	596258.51	S 38 35 29.74	E 148 6 19.06
	1622.65	8.89	25.65	24.96	1607.16	1565.46	149.85	156.91	-2.63	0.29	5727967.92	596260.41	S 38 35 29.61	E 148 6 19.14
	1651.82	8.95	26.68	25.99	1635.98	1594.28	154.34	160.97	-0.63	0.18	5727971.98	596262.41	S 38 35 29.47	E 148 6 19.22
	1680.83	8.98	28.50	27.81	1664.63	1622.93	158.81	164.98	1.46	0.29	5727975.98	596264.50	S 38 35 29.34	E 148 6 19.30
	1708.19	8.68	23.13	22.44	1693.67	1649.97	162.98	168.75	3.29	0.96	5727979.76	596266.33	S 38 35 29.22	E 148 6 19.38
	1739.30	8.17	17.30	16.61	1722.44	1680.74	167.53	173.02	4.87	0.96	5727984.02	596267.91	S 38 35 29.08	E 148 6 19.44
	1768.35	7.62	16.34	15.65	1751.22	1709.52	171.51	176.84	6.03	0.58	5727987.84	596269.07	S 38 35 28.96	E 148 6 19.49
	1798.01	6.99	12.87	12.18	1780.64	1738.94	175.27	180.49	6.98	0.78	5727991.49	596270.02	S 38 35 28.84	E 148 6 19.52
	1827.32	5.13	18.45	17.76	1809.78	1769.08	178.36	183.47	7.79	1.99	5727994.47	596270.83	S 38 35 28.74	E 148 6 19.55
	1856.68	0.47	246.72	246.03	1839.11	1797.41	179.59	184.67	8.10	5.57	5727995.67	596271.14	S 38 35 28.70	E 148 6 19.57
	1885.99	1.59	215.04	214.35	1868.41	1826.71	179.11	184.29	7.76	1.24	5727995.29	596270.79	S 38 35 28.72	E 148 6 19.55
	1915.16													