

Survey Report



Report Date: March 9, 2005	Survey / DLS Computation Method: Minimum Curvature / Lubinski
Client: Nearburg Producing Company	Vertical Section Azimuth: 315.700°
Field: Eddy County, NM	Vertical Section Origin: N 0.000 ft, E 0.000 ft
Structure / Slot: Mckittrick Hills 1 Fed #2 / Mckittrick Hills 1 Fed #2	TVD Reference Datum: RKB
Well: Mckittrick Hills 1 Fed #2	TVD Reference Elevation: 0.0 ft relative to
Borehole: Mckittrick Hills 1 Fed #2	Sea Bed / Ground Level Elevation: 0.000 ft relative to
UWI/API#:	Magnetic Declination: 8.735°
Survey Name / Date: Hill 1-2, surveys / February 21, 2005	Total Field Strength: 49295.269 nT
Tort / AHD / DDI / ERD ratio: 73.055° / 1451.87 ft / 5.034 / 0.175	Magnetic Dip: 60.355°
Grid Coordinate System: NAD27 New Mexico State Planes, Eastern Zone, US Feet	Declination Date: February 21, 2005
Location Lat/Long: N 32 24 52.606, W 104 27 13.784	Magnetic Declination Model: IGRF 2005
Location Grid N/E Y/X: N 514571.300 ftUS, E 462816.100 ftUS	North Reference: Grid North
Grid Convergence Angle: -0.06459070°	Total Corr Mag North -> Grid North: +8.800°
Grid Scale Factor: 0.99991067	Local Coordinates Referenced To: Well Head

Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (deg)	DLS (deg/100 ft)	Tool Face (deg)
Tie-In	1436.00	1.90	265.12	1435.44	15.62	-10.99	-33.63	35.38	251.90	0.00	-102.20M
	1569.00	1.90	257.80	1568.37	18.19	-11.64	-37.98	39.72	252.95	0.18	-98.70M
	1601.00	1.90	261.30	1600.35	18.78	-11.84	-39.02	40.78	253.12	0.36	-85.70M
	1633.00	2.10	274.30	1632.33	19.53	-11.87	-40.13	41.85	253.52	1.55	-71.50M
	1664.00	2.50	288.50	1663.30	20.56	-11.62	-41.34	42.94	254.30	2.24	-58.80M
	1696.00	3.10	301.20	1695.27	22.02	-10.95	-42.74	44.12	255.63	2.69	-50.20M
	1728.00	3.80	309.80	1727.21	23.91	-9.82	-44.29	45.37	257.50	2.71	-47.30M
	1759.00	4.60	312.70	1758.12	26.17	-8.32	-46.00	46.74	259.75	2.67	-45.60M
	1791.00	5.30	314.40	1790.00	28.93	-6.41	-48.00	48.42	262.39	2.23	18.12G
	1822.00	5.90	316.30	1820.86	31.95	-4.26	-50.12	50.30	265.14	2.03	23.64G
	1853.00	6.50	318.60	1851.68	35.30	-1.79	-52.38	52.41	268.04	2.09	28.46G
	1884.00	7.10	321.20	1882.46	38.96	1.02	-54.74	54.75	271.06	2.17	12.61G
	1916.00	7.70	322.20	1914.19	43.06	4.25	-57.29	57.45	274.24	1.92	-1.20G
	1948.00	8.40	322.10	1945.88	47.51	7.79	-60.04	60.55	277.39	2.19	-15.59G
	1979.00	8.90	321.20	1976.52	52.15	11.45	-62.94	63.97	280.31	1.67	-14.22G
	2011.00	9.70	320.00	2008.10	57.30	15.44	-66.22	68.00	283.12	2.57	-14.10G
	2043.00	10.50	318.90	2039.61	62.90	19.70	-69.87	72.60	285.75	2.57	-12.68G
	2075.00	11.10	318.20	2071.04	68.89	24.20	-73.84	77.70	288.14	1.92	-5.89G
	2106.00	11.90	317.80	2101.42	75.06	28.79	-77.98	83.12	290.26	2.59	-16.76G
	2139.00	12.40	317.10	2133.68	82.01	33.90	-82.67	89.36	292.30	1.58	-1.64G
	2202.00	13.20	317.00	2195.11	95.96	44.12	-92.19	102.20	295.58	1.27	-21.75G
	2264.00	13.80	316.00	2255.40	110.43	54.62	-102.15	115.83	298.13	1.04	-90.00G
	2328.00	13.80	314.00	2317.55	125.69	65.41	-112.94	130.52	300.08	0.75	22.13G
	2392.00	14.10	314.50	2379.66	141.12	76.18	-123.99	145.52	301.56	0.51	125.15G
	2455.00	13.90	315.70	2440.79	156.36	86.97	-134.75	160.38	302.84	0.56	125.14G
	2518.00	13.80	316.30	2501.96	171.44	97.82	-145.23	175.10	303.96	0.28	-23.29G
	2579.00	14.20	315.60	2561.15	186.19	108.42	-155.49	189.56	304.89	0.71	-153.57G
	2642.00	13.50	314.10	2622.32	201.27	119.06	-166.18	204.43	305.62	1.25	164.91G
	2705.00	13.00	314.70	2683.64	215.71	129.16	-176.49	218.71	306.20	0.82	-39.32G
	2767.00	13.40	313.30	2744.00	229.86	139.00	-186.68	232.74	306.67	0.83	90.00G
	2832.00	13.40	314.10	2807.23	244.91	149.40	-197.57	247.70	307.10	0.29	90.00G
	2896.00	13.40	316.50	2869.49	259.74	159.94	-208.00	262.39	307.56	0.87	18.62G
	2960.00	13.90	317.20	2931.68	274.84	170.96	-218.33	277.30	308.06	0.82	-18.13G
	3024.00	14.20	316.80	2993.77	290.37	182.33	-228.93	292.66	308.54	0.49	-160.35G
	3088.00	13.80	316.20	3055.87	305.86	193.56	-239.58	308.00	308.93	0.66	163.86G
	3151.00	13.40	316.70	3117.10	320.67	204.29	-249.79	322.69	309.28	0.66	78.84G
	3214.00	13.50	318.70	3178.37	335.31	215.13	-259.65	337.19	309.64	0.76	-3.53G
	3277.00	14.30	318.50	3239.53	350.43	226.48	-269.66	352.15	310.03	1.27	-110.80G
	3340.00	14.20	317.40	3300.59	365.92	238.00	-280.04	367.52	310.36	0.46	-166.69G
	3402.00	13.70	316.90	3360.76	380.86	248.96	-290.21	382.36	310.62	0.83	-136.85G

Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (deg)	DLS (deg/100 ft)	Tool Face (deg)
	3466.00	13.60	316.50	3422.95	395.96	259.95	-300.57	397.38	310.86	0.21	-16.88G
	3530.00	14.60	315.30	3485.02	411.55	271.14	-311.42	412.92	311.04	1.63	-90.00G
	3593.00	14.60	314.60	3545.99	427.43	282.36	-322.66	428.76	311.19	0.28	172.57G
	3655.00	13.20	315.40	3606.17	442.32	292.89	-333.19	443.62	311.32	2.28	119.17G
	3686.00	13.10	316.20	3636.36	449.38	297.94	-338.11	450.65	311.39	0.67	173.63G
	3749.00	12.90	316.30	3697.74	463.55	308.18	-347.91	464.78	311.53	0.32	-23.25G
	3812.00	13.50	315.20	3759.08	477.93	318.48	-357.95	479.12	311.66	1.03	90.00G
	3875.00	13.50	316.30	3820.34	492.64	329.02	-368.21	493.79	311.78	0.41	157.71G
	3937.00	12.70	317.80	3880.72	506.69	339.30	-377.79	507.79	311.93	1.40	136.63G
	3999.00	12.30	319.60	3941.25	520.09	349.38	-386.65	521.11	312.10	0.90	152.83G
	4062.00	11.90	320.60	4002.86	533.25	359.50	-395.12	534.19	312.30	0.72	-48.77G
	4125.00	12.30	318.50	4064.46	546.43	369.55	-403.69	547.30	312.47	0.94	-78.48G
	4188.00	12.40	316.40	4126.00	559.89	379.47	-412.80	560.72	312.59	0.73	142.34G
	4251.00	12.00	317.90	4187.58	573.20	389.23	-421.86	573.99	312.70	0.81	90.00G
	4313.00	12.00	319.50	4248.22	586.07	398.92	-430.36	586.81	312.83	0.54	-11.84G
	4376.00	12.10	319.40	4309.83	599.20	408.91	-438.91	599.88	312.97	0.16	-151.49G
	4438.00	11.80	318.60	4370.49	612.01	418.60	-447.34	612.64	313.10	0.55	-115.23G
	4500.00	11.30	312.50	4431.24	624.41	427.46	-456.01	625.03	313.15	2.13	-90.00G
	4531.00	11.30	310.20	4461.63	630.47	431.47	-460.57	631.10	313.13	1.45	47.34G
	4563.00	11.70	312.30	4492.99	636.83	435.68	-465.36	637.47	313.11	1.81	48.39G
	4595.00	12.20	314.90	4524.30	643.45	440.25	-470.15	644.10	313.12	2.30	3.12G
	4663.00	12.60	315.00	4590.71	658.05	450.56	-480.49	658.69	313.16	0.59	-90.00G
	4695.00	12.60	314.10	4621.94	665.02	455.46	-485.46	665.67	313.17	0.61	78.12G
	4725.00	12.70	316.10	4651.21	671.59	460.11	-490.10	672.24	313.19	1.50	-159.05G
	4757.00	12.10	315.00	4682.47	678.46	465.02	-494.91	679.10	313.22	2.01	104.45G
	4851.00	12.00	317.00	4774.40	698.09	479.13	-508.54	698.70	313.29	0.46	-111.61G
	4915.00	11.70	312.90	4837.03	711.22	488.42	-517.83	711.83	313.33	1.40	68.33G
	4978.00	11.80	314.10	4898.71	724.04	497.25	-527.14	724.66	313.33	0.42	149.74G
	5040.00	11.30	315.60	4959.46	736.45	506.00	-535.94	737.07	313.35	0.94	110.80G
	5103.00	11.20	317.00	5021.25	748.74	514.88	-544.43	749.34	313.40	0.46	113.79G
	5165.00	11.00	319.50	5082.09	760.66	523.79	-552.38	761.23	313.48	0.84	-54.58G
	5228.00	11.30	317.40	5143.90	772.83	532.90	-560.46	773.37	313.56	0.80	54.37G
	5291.00	11.40	318.10	5205.67	785.22	542.08	-568.80	785.73	313.62	0.27	-47.68G
	5354.00	11.90	315.50	5267.37	797.93	551.34	-577.51	798.43	313.67	1.15	-90.00G
	5417.00	11.90	313.50	5329.02	810.92	560.45	-586.77	811.42	313.69	0.65	101.54G
	5481.00	11.80	316.20	5391.65	824.06	569.71	-596.09	824.56	313.70	0.88	79.17G
	5544.00	11.90	318.50	5453.31	836.99	579.23	-604.85	837.47	313.76	0.77	0.00G
	5605.00	12.10	318.50	5512.98	849.65	588.73	-613.25	850.11	313.83	0.33	37.96G
	5668.00	12.70	320.60	5574.51	863.15	599.02	-622.03	863.57	313.92	1.19	-133.00G
	5731.00	12.50	319.60	5635.99	876.85	609.57	-630.84	877.23	314.02	0.47	-176.07G
	5794.00	11.90	319.40	5697.57	890.13	619.69	-639.49	890.48	314.10	0.95	-30.50G
	5858.00	12.30	318.30	5760.15	903.53	629.79	-648.31	903.85	314.17	0.72	102.70G
	5921.00	12.20	320.60	5821.71	916.87	639.95	-657.00	917.16	314.25	0.79	-145.21G
	5984.00	11.60	318.50	5883.36	929.82	649.83	-665.43	930.09	314.32	1.17	-31.13G
	6047.00	12.20	316.80	5945.00	942.81	659.43	-674.18	943.06	314.37	1.10	144.18G
	6111.00	11.70	318.60	6007.62	956.05	669.23	-683.10	956.29	314.41	0.97	-55.29G
	6142.00	11.80	317.90	6037.97	962.36	673.94	-687.30	962.59	314.44	0.56	30.99G
	6174.00	12.30	319.30	6069.26	969.03	678.95	-691.72	969.25	314.47	1.81	-169.03G
	6238.00	11.20	318.20	6131.92	982.04	688.75	-700.31	982.25	314.52	1.75	179.17G
	6301.00	10.00	318.30	6193.84	993.62	697.40	-708.03	993.81	314.57	1.90	-2.41G
	6365.00	10.90	318.10	6256.78	1005.21	706.05	-715.76	1005.40	314.61	1.41	-19.80G
	6428.00	12.20	315.90	6318.50	1017.82	715.26	-724.38	1018.00	314.64	2.18	-148.63G
	6491.00	11.80	314.70	6380.13	1030.92	724.57	-733.59	1031.10	314.65	0.75	-54.78G
	6554.00	12.20	312.10	6441.75	1044.00	733.57	-743.10	1044.19	314.63	1.07	43.81G
	6616.00	13.10	315.80	6502.25	1057.57	743.00	-752.86	1057.76	314.62	1.95	-10.51G

Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (deg)	DLS (deg/100 ft)	Tool Face (deg)
	6678.00	14.30	314.90	6562.48	1072.25	753.44	-763.19	1072.44	314.63	1.97	-116.44G
	6742.00	14.10	313.20	6624.53	1087.94	764.36	-774.47	1088.14	314.62	0.72	-147.99G
	6805.00	13.30	311.00	6685.73	1102.83	774.36	-785.53	1103.04	314.59	1.52	13.05G
	6868.00	13.40	311.10	6747.03	1117.33	783.92	-796.50	1117.56	314.54	0.16	11.27G
	6930.00	14.40	311.90	6807.22	1132.19	793.79	-807.65	1132.43	314.50	1.64	124.97G
	6992.00	14.10	313.70	6867.31	1147.43	804.15	-818.85	1147.69	314.48	0.86	-1.26G
	7053.00	15.30	313.60	6926.31	1162.90	814.84	-830.05	1163.16	314.47	1.97	162.66G
	7115.00	14.50	314.60	6986.23	1178.83	825.93	-841.50	1179.10	314.46	1.36	-74.81G
	7146.00	14.60	313.20	7016.23	1186.61	831.33	-847.11	1186.89	314.46	1.18	-158.11G
	7209.00	14.00	312.20	7077.28	1202.15	841.88	-858.55	1202.44	314.44	1.03	115.18G
	7241.00	13.90	313.10	7108.34	1209.86	847.11	-864.22	1210.15	314.43	0.75	6.95G
	7273.00	14.10	313.20	7139.38	1217.59	852.40	-869.87	1217.89	314.42	0.63	2.98G
	7335.00	15.10	313.40	7199.38	1233.20	863.12	-881.24	1233.52	314.40	1.61	127.85G
	7365.00	15.00	313.90	7228.35	1240.99	868.50	-886.88	1241.31	314.40	0.55	-90.00G
	7428.00	15.00	312.10	7289.21	1257.27	879.62	-898.80	1257.61	314.38	0.74	134.29G
	7490.00	14.90	312.50	7349.11	1273.24	890.38	-910.63	1273.59	314.36	0.23	128.21G
	7553.00	14.80	313.00	7410.00	1289.37	901.34	-922.49	1289.73	314.34	0.26	-167.86G
	7618.00	13.50	311.80	7473.03	1305.23	912.06	-934.22	1305.61	314.31	2.05	-156.39G
	7649.00	12.70	310.20	7503.22	1312.23	916.67	-939.52	1312.63	314.29	2.83	-147.34G
	7712.00	12.40	309.30	7564.72	1325.85	925.43	-950.04	1326.27	314.25	0.57	16.35G
	7742.00	12.70	309.70	7594.00	1332.33	929.57	-955.07	1332.77	314.22	1.04	-90.00G
	7774.00	12.70	308.80	7625.22	1339.32	934.03	-960.52	1339.78	314.20	0.62	-175.91G
	7805.00	12.40	308.70	7655.48	1346.00	938.24	-965.77	1346.48	314.17	0.97	145.22G
	7837.00	12.10	309.70	7686.75	1352.75	942.53	-971.03	1353.25	314.15	1.15	70.49G
	7869.00	12.30	312.20	7718.03	1359.49	946.96	-976.14	1360.00	314.13	1.77	70.63G
Last MWD Survey TD	7901.00	12.60	315.80	7749.27	1366.38	951.76	-981.10	1366.89	314.13	2.60	171.96G
	8450.00	7.70	321.00	8289.53	1462.94	1023.31	-1046.03	1463.34	314.37	0.91	0.00G