

SUR: C-34-19s-33e, 1115/N & 2364/W
 BHL: K-34-19s-33e, 3660/N & 1917/W
 API # 30-025-36820



Survey Report

Report Date: October 22, 2004	Survey / DLS Computation Method: Minimum Curvature / Lubinski
Client: Nearburg Producing Company	Vertical Section Azimuth: 189.710°
Field: Lea County, NM	Vertical Section Origin: N 0.000 ft, E 0.000 ft
Structure / Slot: Jade 34 Federal Com 3 / Jade 34 Federal Com 3	TVD Reference Datum: RKB
Well: Jade 34 Federal Com 3	TVD Reference Elevation: 0.0 ft relative to
Borehole: Jade 34 Federal Com 3	Sea Bed / Ground Level Elevation: 0.000 ft relative to
UWI/API#:	Magnetic Declination: 8.651°
Survey Name / Date: Jade 34_sur / September 18, 2004	Total Field Strength: 49703.815 nT
Tort / AHD / DDI / ERD ratio: 105.273° / 2619.67 ft / 5.453 / 0.191	Magnetic Dip: 60.797°
Grid Coordinate System: NAD27 New Mexico State Planes, Eastern Zone, US Feet	Declination Date: September 18, 2004
Location Lat/Long: N 32 37 14.838, W 103 39 5.192	Magnetic Declination Model: IGRF 2000
Location Grid N/E Y/X: N 590227.700 ftUS, E 709948.200 ftUS	North Reference: Grid North
Grid Convergence Angle: +0.36760356°	Total Corr Mag North -> Grid North: +8.283°
Grid Scale Factor: 0.99995957	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	5185.00	0.84	211.92	5184.40	-34.60	33.70	8.20	34.68	13.68	0.00	-183.50M
	5253.00	2.30	198.50	5252.38	-32.89	32.07	7.61	32.96	13.35	2.49	-171.00M
	5318.00	5.80	189.00	5317.20	-28.31	27.57	6.73	28.38	13.71	5.43	17.56G
	5381.00	7.10	192.30	5379.80	-21.24	20.62	5.40	21.32	14.67	2.14	90.00G
	5442.00	7.10	194.40	5440.34	-13.72	13.29	3.66	13.78	15.39	0.43	1.22G
	5506.00	9.40	194.70	5503.67	-4.57	4.40	1.35	4.80	17.03	3.59	-9.88G
	5569.00	11.60	192.80	5565.61	0.88	-8.75	-1.38	6.89	191.39	3.53	-43.14G
	5633.00	12.40	189.40	5628.21	20.18	-19.81	-3.91	20.19	191.16	1.87	-27.55G
	5698.00	13.10	187.80	5689.86	34.08	-33.55	-5.98	34.08	190.11	1.24	32.85G
	5758.00	13.50	188.90	5750.97	48.57	-47.89	-8.09	48.57	189.59	0.75	57.44G
	5822.00	13.70	190.20	5812.20	63.38	-62.50	-10.55	63.38	189.58	0.58	8.90G
	5885.00	14.50	190.70	5873.30	78.73	-77.59	-13.33	78.73	189.75	1.28	-40.14G
	5949.00	14.90	189.40	5935.21	94.97	-93.58	-16.16	94.97	189.80	0.81	-13.83G
	6013.00	16.80	188.80	5998.93	111.91	-110.32	-18.81	111.91	189.68	1.44	-174.81G
	6076.00	15.50	188.50	6057.59	128.90	-127.12	-21.34	128.90	189.53	0.48	37.19G
	6139.00	15.90	189.60	6118.24	145.95	-143.98	-24.02	145.95	189.47	0.79	15.84G
	6202.00	18.10	191.60	6178.48	164.36	-162.05	-27.43	164.36	189.61	3.61	0.00G
	6265.00	18.50	191.60	6238.30	184.13	-181.43	-31.41	184.13	189.62	0.83	-174.06G
	6329.00	18.20	191.50	6299.04	204.27	-201.17	-35.44	204.27	189.99	0.47	176.52G
	6380.00	17.70	191.60	6357.07	223.06	-219.59	-39.20	223.06	190.12	0.82	-7.71G
	6454.00	18.40	191.30	6417.92	242.88	-239.03	-43.14	242.89	190.23	1.10	147.90G
	6517.00	18.30	191.50	6477.72	262.70	-258.47	-47.06	262.72	190.32	0.19	-22.31G
	6580.00	18.10	190.50	6537.39	282.90	-278.30	-50.91	282.91	190.37	1.37	-127.84G
	6645.00	19.00	190.10	6598.83	304.11	-299.17	-54.70	304.13	190.36	0.25	142.92G
	6708.00	18.50	191.30	6658.49	324.36	-319.07	-58.46	324.36	190.38	1.00	0.00G
	6772.00	18.80	191.30	6719.17	344.71	-339.03	-62.45	344.74	190.44	0.16	-188.82G
	6836.00	18.20	191.00	6779.89	364.90	-358.85	-66.36	364.94	190.48	0.84	-188.42G
	6900.00	17.90	190.80	6840.74	384.73	-378.33	-70.11	384.77	190.50	0.48	-43.17G
	6963.00	18.70	188.50	6900.56	404.51	-397.82	-73.42	404.54	190.46	1.71	147.49G
	7027.00	18.80	188.70	6961.20	424.97	-418.06	-76.48	425.00	190.37	0.19	-154.95G
	7091.00	18.20	188.10	7021.93	445.17	-438.04	-79.43	445.19	190.28	0.89	-90.00G
	7152.00	18.20	187.90	7079.87	464.21	-458.91	-82.08	464.23	190.18	0.10	-114.97G
	7216.00	18.10	187.20	7140.69	484.13	-476.68	-84.70	484.14	190.08	0.37	-162.92G
	7279.00	17.90	187.00	7200.61	503.58	-495.99	-87.11	503.58	189.96	0.33	148.05G
	7344.00	17.50	187.90	7262.53	523.33	-515.59	-89.67	523.33	189.87	0.75	70.20G
	7408.00	17.60	188.80	7323.55	542.62	-534.88	-92.47	542.62	189.81	0.45	170.57G
	7472.00	16.90	189.20	7384.67	561.60	-553.43	-95.44	561.60	189.78	1.11	11.18G
	7535.00	17.20	189.40	7444.90	580.07	-571.66	-98.42	580.07	189.77	0.49	-163.71G
	7599.00	17.00	189.20	7508.07	598.88	-590.23	-101.48	598.88	189.75	0.33	158.58G
	7662.00	16.80	189.50	7566.35	617.20	-608.30	-104.44	617.20	189.74	0.35	-29.12G

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)
	7725.00	18.60	188.40	7626.37	636.34	-827.26	-107.06	636.34	189.69	3.22	-174.98G
	7789.00	17.90	186.20	7687.15	656.34	-847.19	-108.28	656.34	189.58	1.10	170.41G
	7852.00	17.20	188.60	7747.22	675.31	-868.06	-111.38	675.31	189.49	1.13	89.89G
	7916.00	17.30	187.50	7808.34	694.26	-884.90	-113.71	694.27	189.43	0.45	154.07G
	7978.00	17.00	188.00	7867.58	712.54	-703.01	-116.17	712.55	189.38	0.54	118.43G
	8043.00	16.60	190.70	7929.81	731.32	-721.55	-119.22	731.33	189.38	1.35	171.97G
	8106.00	16.40	190.80	7990.21	749.21	-738.13	-122.56	749.22	189.41	0.32	22.40G
	8169.00	17.50	192.30	8050.48	767.56	-757.12	-128.24	767.57	189.47	1.88	180.00G
	8233.00	17.20	192.30	8111.56	786.63	-775.76	-130.31	786.83	189.54	0.47	-71.42G
	8297.00	17.40	190.40	8172.67	805.85	-794.42	-134.05	805.65	189.58	0.94	-19.28G
	8360.00	18.30	189.40	8232.64	824.96	-813.45	-137.37	824.98	189.59	1.51	-175.59G
	8424.00	16.80	189.00	8293.68	844.26	-832.50	-140.45	844.26	189.58	2.35	166.92G
	8487.00	16.20	189.50	8354.08	862.15	-850.16	-143.33	862.15	189.57	0.88	-14.54G
	8550.00	18.40	187.70	8414.21	880.88	-868.88	-146.11	880.88	189.55	3.59	12.31G
	8612.00	19.80	188.60	8472.79	901.16	-888.76	-148.89	901.16	189.52	2.31	-116.87G
	8676.00	19.60	187.40	8533.05	922.72	-910.12	-152.00	922.73	189.48	0.71	-14.67G
	8740.00	20.40	186.60	8593.19	944.59	-931.84	-154.70	944.60	189.43	1.29	-83.22G
	8803.00	20.50	184.70	8652.22	966.54	-953.74	-156.90	966.56	189.34	1.18	98.17G
	8867.00	20.40	187.00	8712.18	988.85	-975.98	-159.18	988.88	189.26	1.27	118.03G
	8930.00	20.00	189.50	8771.31	1010.59	-997.51	-162.30	1010.62	189.24	1.51	151.31G
	8994.00	18.10	192.00	8831.80	1031.46	-1017.99	-166.32	1031.49	189.28	3.44	-176.54G
	9057.00	17.60	192.80	8891.77	1050.74	-1036.82	-170.62	1050.77	189.34	0.80	-106.02G
	9121.00	17.50	191.60	8952.79	1070.02	-1055.68	-174.70	1070.04	189.40	0.59	-140.85G
	9185.00	16.90	189.90	9013.93	1088.94	-1074.27	-178.23	1088.96	189.42	1.22	-3.56G
	9248.00	19.80	189.40	9073.78	1108.67	-1093.72	-181.53	1108.69	189.42	4.29	-158.12G
	9311.00	18.80	188.40	9133.25	1129.39	-1114.19	-184.74	1129.40	189.41	1.37	-172.22G
	9375.00	17.90	186.00	9194.00	1149.53	-1134.13	-187.62	1149.55	189.39	1.42	137.98G
	9439.00	17.60	188.90	9254.95	1169.03	-1153.43	-190.48	1169.05	189.38	0.64	-154.11G
	9503.00	17.00	187.90	9316.06	1188.06	-1172.26	-193.27	1188.08	189.36	1.05	12.93G
	9566.00	17.80	188.50	9376.17	1206.89	-1190.90	-195.95	1206.92	189.34	1.30	153.43G
	9629.00	17.50	189.00	9436.21	1225.99	-1209.78	-198.86	1226.02	189.33	0.53	-155.66G
	9692.00	16.80	187.90	9496.40	1244.56	-1228.18	-201.59	1244.59	189.32	1.22	24.76G
	9754.00	17.80	189.40	9555.60	1263.00	-1246.38	-204.37	1263.03	189.31	1.77	180.00G
	9816.00	17.10	189.40	9614.75	1281.59	-1264.72	-207.41	1281.62	189.31	1.13	47.82G
	9878.00	17.40	190.50	9673.96	1299.97	-1282.83	-210.59	1300.00	189.32	0.71	132.76G
	9928.00	17.00	192.00	9721.72	1314.75	-1297.33	-213.47	1314.78	189.34	1.19	-76.98G
	9991.00	17.10	190.80	9781.85	1333.22	-1315.45	-217.09	1333.24	189.37	0.67	-80.19G
	10054.00	17.20	188.80	9842.15	1351.79	-1333.76	-220.22	1351.81	189.38	0.86	-163.71G
	10118.00	17.00	188.60	9903.32	1370.61	-1352.36	-223.08	1370.63	189.37	0.33	-133.41G
	10180.00	16.60	187.10	9962.68	1388.51	-1370.11	-225.51	1388.54	189.35	0.95	65.83G
	10241.00	16.80	188.80	10021.10	1406.03	-1387.47	-227.91	1406.06	189.33	0.78	25.91G
	10304.00	18.30	190.90	10081.17	1425.03	-1406.19	-231.14	1425.06	189.33	2.62	55.28G
	10373.00	18.50	191.80	10146.64	1446.80	-1427.54	-235.43	1446.82	189.36	0.50	-145.19G
	10436.00	18.10	190.90	10206.48	1466.57	-1446.93	-239.32	1466.59	189.39	0.78	-145.76G
	10499.00	17.70	190.00	10266.41	1485.93	-1465.97	-242.84	1485.95	189.41	0.77	170.52G
	10563.00	17.00	190.40	10327.50	1505.01	-1484.76	-246.21	1505.03	189.42	1.11	-4.28G
	10626.00	17.40	190.30	10387.68	1523.64	-1503.08	-249.58	1523.66	189.43	0.84	-90.00G
	10688.00	17.40	190.10	10446.84	1542.18	-1521.33	-252.84	1542.20	189.44	0.10	27.35G
	10752.00	18.00	191.10	10507.81	1561.64	-1540.46	-256.43	1561.65	189.45	1.05	166.02G
	10816.00	17.40	191.60	10566.78	1581.09	-1559.53	-260.25	1581.10	189.47	0.97	53.96G
	10879.00	17.60	192.50	10628.86	1600.02	-1578.06	-264.21	1600.03	189.50	0.53	126.20G
	10943.00	17.30	193.80	10689.92	1619.17	-1596.75	-268.57	1619.18	189.55	0.77	-48.24G
	11006.00	17.80	192.70	10750.02	1638.03	-1615.14	-272.90	1638.03	189.59	0.71	122.78G
	11070.00	17.30	194.30	10811.08	1657.18	-1633.80	-277.38	1657.18	189.64	0.88	-98.63G
	11133.00	17.20	191.70	10871.24	1675.82	-1652.00	-281.68	1675.82	189.67	1.23	-177.98G
	11196.00	16.40	191.60	10931.55	1694.02	-1669.83	-285.26	1694.02	189.69	1.27	-143.89G
	11261.00	15.60	189.40	10994.04	1711.93	-1687.44	-288.53	1711.93	189.70	1.54	1.59G

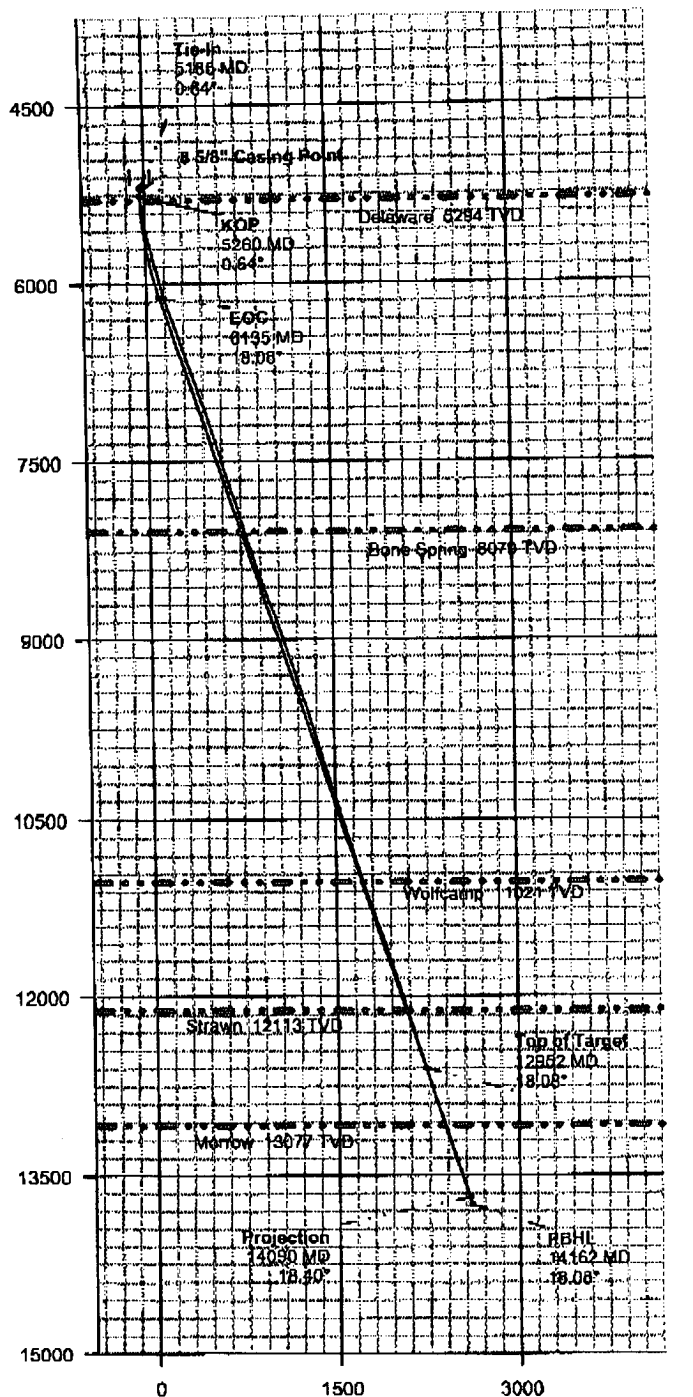


Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (deg)	DLS (deg/100 ft)	Tool Face (deg)
	11325.00	17.80	189.60	11055.33	1730.32	-1705.58	-291.57	1730.32	189.70	3.44	-8.38G
	11388.00	18.90	189.10	11113.23	1749.52	-1724.53	-284.69	1749.52	189.70	1.82	28.78G
	11450.00	19.20	189.60	11173.72	1770.41	-1745.14	-298.08	1770.41	189.69	0.53	-162.25G
	11513.00	18.70	189.10	11233.31	1790.87	-1765.33	-301.41	1790.87	189.69	0.83	-175.28G
	11577.00	17.60	188.60	11294.12	1810.81	-1785.02	-304.51	1810.81	189.68	1.72	12.33G
	11638.00	19.60	190.10	11351.94	1830.28	-1804.21	-307.71	1830.28	189.68	3.35	98.49G
	11700.00	19.50	192.40	11410.36	1851.00	-1824.55	-311.78	1851.00	189.70	1.25	158.70G
	11764.00	19.00	193.00	11470.78	1872.07	-1845.14	-316.40	1872.07	189.73	0.84	170.90G
	11826.00	17.50	193.80	11529.68	1891.44	-1864.02	-320.89	1891.44	189.77	2.45	-145.50G
	11887.00	17.20	193.10	11587.89	1909.59	-1881.72	-325.12	1909.60	189.80	0.60	-79.55G
	11951.00	17.50	188.80	11648.98	1928.68	-1900.45	-328.71	1928.66	189.81	2.15	-17.28G
	12013.00	18.10	188.00	11708.01	1947.61	-1919.20	-331.44	1947.61	189.80	1.01	53.98G
	12075.00	18.50	189.70	11766.88	1967.07	-1938.43	-334.44	1967.07	189.79	1.08	158.66G
	12138.00	18.00	190.40	11824.81	1986.17	-1957.24	-337.77	1986.18	189.79	0.89	173.33G
	12198.00	17.00	190.80	11883.94	2004.82	-1975.57	-341.20	2004.82	189.80	1.82	100.89G
	12258.00	18.90	192.80	11941.33	2022.29	-1992.69	-344.78	2022.30	189.82	0.99	116.37G
	12320.00	18.60	195.00	12000.70	2040.11	-2010.03	-349.06	2040.12	189.85	1.13	-174.66G
	12383.00	16.30	194.90	12061.12	2057.88	-2027.27	-353.67	2057.89	189.90	0.48	-52.47G
	12443.00	18.80	192.70	12118.64	2074.92	-2043.87	-357.74	2074.94	189.93	1.34	-7.35G
	12505.00	17.50	192.40	12177.88	2093.18	-2061.71	-361.71	2093.20	189.95	1.14	-53.08G
	12569.00	17.90	190.70	12238.85	2112.83	-2080.77	-365.60	2112.65	189.97	1.02	-85.84G
	12632.00	18.40	187.40	12298.72	2132.24	-2100.15	-368.68	2132.26	189.98	1.81	-90.00G
	12694.00	18.40	187.30	12357.55	2151.80	-2119.56	-371.18	2151.81	189.93	0.05	118.18G
	12741.00	18.30	187.90	12402.16	2166.58	-2134.22	-373.14	2166.60	189.92	0.45	140.84G
	12803.00	17.50	190.10	12481.16	2185.53	-2153.04	-376.11	2185.65	189.91	1.69	147.40G
	12866.00	17.00	191.20	12521.32	2204.31	-2171.40	-379.56	2204.33	189.92	0.85	167.13G
	12927.00	16.70	192.30	12579.85	2221.47	-2188.21	-383.05	2221.49	189.93	2.19	-24.88G
	12989.00	16.60	191.00	12639.42	2238.66	-2205.05	-386.52	2238.67	189.94	1.42	27.85G
	13052.00	17.00	191.90	12699.75	2258.80	-2222.85	-390.13	2256.82	189.95	0.89	-49.30G
	13114.00	17.90	188.60	12758.90	2275.39	-2241.14	-393.42	2275.41	189.96	2.16	154.50G
	13177.00	17.40	189.40	12818.93	2294.49	-2260.00	-396.41	2294.51	189.95	0.88	-29.41G
	13270.00	18.60	187.30	12907.38	2323.21	-2288.44	-400.66	2323.23	189.93	1.47	90.00G
	13330.00	18.60	187.80	12964.25	2342.34	-2307.41	-403.09	2342.35	189.91	0.32	142.01G
	13393.00	17.90	189.70	13024.08	2362.06	-2326.90	-406.11	2362.07	189.90	1.43	90.00G
	13456.00	17.90	190.70	13084.03	2381.42	-2345.96	-409.54	2381.44	189.90	0.49	-32.44G
	13549.00	19.50	187.70	13172.12	2411.23	-2375.39	-414.27	2411.24	189.89	2.01	111.89G
	13642.00	19.10	191.00	13259.89	2441.85	-2405.71	-419.25	2441.86	189.89	1.25	180.00G
	13704.00	18.30	191.00	13318.62	2461.83	-2425.22	-423.05	2461.84	189.89	1.29	57.81G
	13725.00	18.40	191.50	13338.55	2468.43	-2431.70	-424.33	2468.45	189.90	0.89	0.00G
Projection	14090.00	18.40	191.50	13684.89	2583.59	-2544.80	-447.30	2583.62	189.97	0.00	0.00G

Nearburg Producing Company

WELL	FIELD	STRUCTURE
Jade 34 Fed Com 3	Lea County, NM	Jade 34 Fed Com 3

Magnetic Parameters Model: 1G/P 2003 Dip: 80.18° Mag Dec: -4.85°	Date: September 18, 2004 F.S.: 49723.9.37	Surface Location Lat: N28 57 14.83S Lon: W103 29 3.182	MAGNET New Mexico State Plane, Eastern Zone, US Feet 060227 70 N/A Grid Cont: +6.18700238° State Plane: 8300000 NAD83: 70 N/A	Miscellaneous Well: Jade 34 Federal Com 3 Plot: July 24, 2004	TWP Ref: R10E (0.00 N above) Sec Ref: 04 (0.00 N above) Sec Date: 04 02 00 AM September 18, 2004
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Departure (ft) Azim = 189.71°, Scale = 1:1500 Origin = 0 N-S, 0 E-W

