



Canepile Gas Com 1N Final Survey Report



30-045-32717

Report Date: July 13, 2005	Survey / DLS Computation Method: Minimum Curvature / Lubinski
Client: BP America Inc.	Vertical Section Azimuth: 298.210°
Field: NM, San Juan County (NAD 83 WZ) 2004	Vertical Section Origin: N 0.000 ft, E 0.000 ft
Structure / Slot: BP 18-31N-10W (Canepile Gas Com 1N) / Canepile Gas Com 1N	TVD Reference Datum: RKB
Well: Canepile Gas Com 1N	TVD Reference Elevation: 5924.0 ft relative to MSL
Borehole: Original Hole (Est RKB)	Sea Bed / Ground Level Elevation: 5910.000 ft relative to MSL
UWI/API#:	Magnetic Declination: 10.745°
Survey Name / Date: EOW10H / June 13, 2005	Total Field Strength: 51421.500 nT
Tort / AHD / DDI / ERD ratio: 60.205° / 993.41 ft / 4.787 / 0.137	Magnetic Dip: 63.740°
Grid Coordinate System: NAD83 New Mexico State Planes, Western Zone, US Feet	Declination Date: June 13, 2005
Location Lat/Long: N 36 53 37.375, W 107 55 19.144	Magnetic Declination Model: BGGM 2005
Location Grid N/E Y/X: N 2144650.305 ftUS, E 2697168.816 ftUS	North Reference: Grid North
Grid Convergence Angle: -0.05322021°	Total Corr Mag North -> Grid North: +10.798°
Grid Scale Factor: 0.99991744	Local Coordinates Referenced To: Well Head

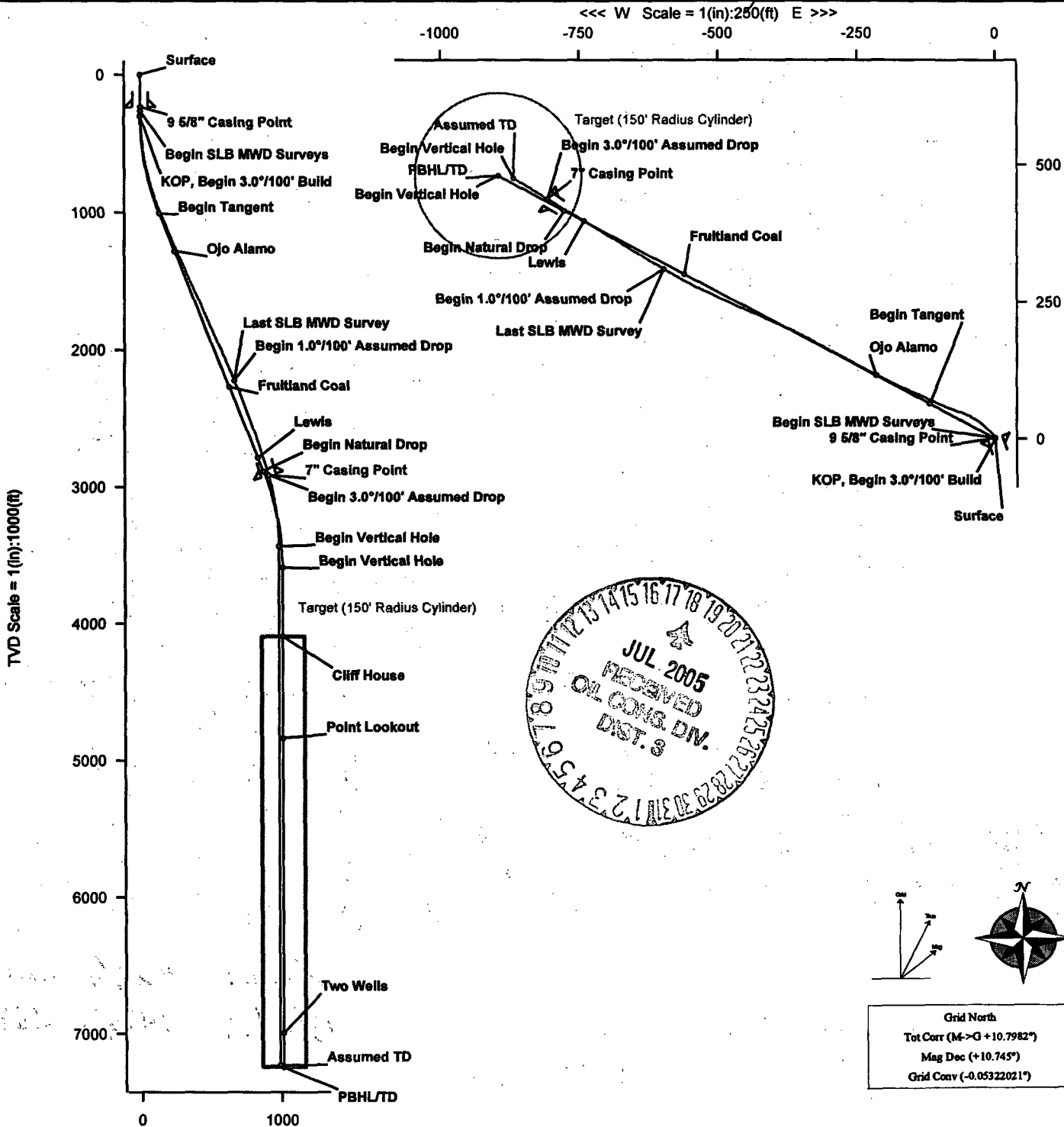
Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	DLS (deg/100 ft)	Northing (ftUS)	Easting (ftUS)	Latitude	Longitude
Surface	0.00	0.00	340.58	0.00	0.00	0.00	0.00	0.00	2144650.31	2697168.82	N 36 53 37.375	W 107 55 19.144
9 5/8" Casing Point	233.00	0.69	340.58	232.99	1.03	1.32	-0.46	0.30	2144651.62	2697168.35	N 36 53 37.388	W 107 55 19.150
Begin SLB MWD Surveys	261.00	0.77	340.58	260.99	1.30	1.65	-0.58	0.30	2144651.96	2697168.23	N 36 53 37.391	W 107 55 19.151
	322.00	1.51	340.62	321.98	2.19	2.80	-0.99	1.21	2144653.10	2697167.83	N 36 53 37.403	W 107 55 19.156
	383.00	3.22	326.92	382.93	4.29	4.99	-2.19	2.93	2144655.30	2697166.63	N 36 53 37.424	W 107 55 19.171
	442.00	5.39	321.71	441.76	8.28	8.56	-4.81	3.73	2144658.86	2697164.01	N 36 53 37.460	W 107 55 19.204
	502.00	6.93	314.44	501.41	14.34	13.30	-9.14	2.87	2144663.61	2697159.68	N 36 53 37.506	W 107 55 19.257
	563.00	9.18	313.39	561.80	22.57	19.22	-15.30	3.70	2144669.53	2697153.51	N 36 53 37.565	W 107 55 19.333
	625.00	10.39	308.74	622.90	32.84	26.12	-23.26	2.33	2144676.42	2697145.56	N 36 53 37.633	W 107 55 19.431
	685.00	12.02	303.42	681.76	44.39	32.95	-32.70	3.21	2144683.25	2697136.12	N 36 53 37.700	W 107 55 19.547
	746.00	14.17	297.94	741.17	58.18	39.94	-44.60	4.07	2144690.25	2697124.22	N 36 53 37.770	W 107 55 19.694
	807.00	16.15	292.39	800.05	74.09	46.68	-59.04	4.02	2144696.98	2697109.78	N 36 53 37.836	W 107 55 19.872
	868.00	18.25	287.80	858.32	91.93	52.83	-75.98	4.10	2144703.13	2697092.84	N 36 53 37.897	W 107 55 20.080
	926.00	19.75	294.14	913.16	110.64	59.61	-93.57	4.40	2144709.91	2697075.25	N 36 53 37.964	W 107 55 20.297
	990.00	21.72	295.15	973.01	133.25	69.07	-114.16	3.13	2144719.37	2697054.67	N 36 53 38.057	W 107 55 20.550
	1054.00	22.10	294.57	1032.39	157.09	79.11	-135.83	0.68	2144729.41	2697033.00	N 36 53 38.156	W 107 55 20.817
	1150.00	22.66	294.61	1121.16	193.57	94.32	-169.07	0.58	2144744.62	2696999.76	N 36 53 38.306	W 107 55 21.227
	1245.00	22.98	296.46	1208.73	230.37	110.20	-202.31	0.83	2144760.50	2696966.53	N 36 53 38.463	W 107 55 21.636
	1339.00	23.11	297.92	1295.23	267.16	127.02	-235.03	0.62	2144777.31	2696933.80	N 36 53 38.629	W 107 55 22.039
	1435.00	23.61	298.27	1383.36	305.22	144.94	-268.61	0.54	2144795.24	2696900.23	N 36 53 38.806	W 107 55 22.453
	1529.00	24.03	298.53	1469.35	343.18	163.00	-302.01	0.46	2144813.29	2696866.84	N 36 53 38.984	W 107 55 22.864
	1593.00	24.66	300.01	1527.66	369.56	175.90	-325.02	1.37	2144826.19	2696843.83	N 36 53 39.111	W 107 55 23.147
	1656.00	24.26	296.83	1585.01	395.64	188.32	-347.95	2.18	2144838.61	2696820.90	N 36 53 39.234	W 107 55 23.430
	1720.00	23.58	295.24	1643.51	421.57	199.71	-371.26	1.46	2144850.00	2696797.59	N 36 53 39.346	W 107 55 23.717
	1815.00	23.91	294.36	1730.47	459.75	215.75	-405.99	0.51	2144866.04	2696762.87	N 36 53 39.505	W 107 55 24.144
	1910.00	24.56	293.83	1817.10	498.64	231.67	-441.58	0.72	2144881.96	2696727.27	N 36 53 39.662	W 107 55 24.583
	2006.00	23.50	295.34	1904.77	537.65	247.92	-477.13	1.28	2144898.21	2696691.72	N 36 53 39.822	W 107 55 25.021
	2098.00	23.71	295.00	1989.08	574.44	263.59	-510.48	0.27	2144913.87	2696658.38	N 36 53 39.977	W 107 55 25.431
	2193.00	22.70	297.39	2076.39	611.84	280.10	-544.06	1.45	2144930.38	2696624.80	N 36 53 40.139	W 107 55 25.845
	2256.00	22.76	298.32	2134.50	636.18	291.47	-565.58	0.58	2144941.75	2696603.28	N 36 53 40.252	W 107 55 26.110
	2319.00	22.90	300.22	2192.56	660.62	303.42	-586.90	1.19	2144953.70	2696581.96	N 36 53 40.370	W 107 55 26.373
Last SLB MWD Survey	2351.00	23.14	301.56	2222.02	673.12	309.85	-597.64	1.80	2144960.12	2696571.22	N 36 53 40.433	W 107 55 26.505
Begin 1.0"/100' Assumed Drop	2351.01	23.14	301.56	2222.03	673.12	309.85	-597.64	1.00	2144960.13	2696571.22	N 36 53 40.433	W 107 55 26.505
7" Casing Point	3085.00	15.80	301.56	2913.57	917.19	437.81	-805.97	1.00	2145088.08	2696362.92	N 36 53 41.696	W 107 55 29.071
Begin 3.0"/100' Assumed Drop	3085.01	15.80	301.56	2913.58	917.19	437.81	-805.97	1.00	2145088.08	2696362.92	N 36 53 41.696	

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Well CanepileGas Com 1N				Field San Juan County, New Mexico				Rig Aztec 184			
Magnetic Parameters Model BOOM 2005 Dip 83.74° Mag Dec +10.745° Date June 13, 2005 Field Strength 61421.5 nT				Surface Location NAD83 New Mexico State Plane, Western Zone, US Feet Latitude N09 53 37.375 Longitude W107 55 18.144 Northing 2144850.31 BUS Easting 2997168.82 BUS Grid Convergence -0.05322021° Scale Factor 0.9999170000				Miscellaneous Borehole Plan Original Hole (Est R/O) Canepile Gas Com 1N R/O Jan 23-Nov-04 TVD Reference Survey Date RKB (5024.00 ft above MSL) July 13, 2005			



Vertical Section (ft) Azim = 298.21°, Scale = 1(in):1000(ft) Origin = 0 N-S, 0 E-W

Grid North
Tot Corr (M-G +10.7982°)
Mag Dec (+10.745°)
Grid Conv (-0.05322021°)

Quality Control
Date Drawn: Wed 01:07 PM July 13, 2005
Drawn by: Jim Winberg
Checked by: Frank Bressanayak
Client OK: