

A Gyrodata Directional Survey

for

PARALLEL PETROLEUM

Lease: ICE BOX 1823-30 Well: STATE COM #1, 4- 1/2" DRILLPIPE
Location: PATTERSON DRLNG RIG #498, EDDY CO., NEW MEXICO

30 - 015 - 34885

Job Number: MD0606GW212

Run Date: 6/23/2006 5:23:35 PM

Surveyor: HENRY DREW

Calculation Method: MINIMUM CURVATURE

Survey Latitude: 32.725083 deg. N Longitude: 104.736083 deg. W

Azimuth Correction:

Gyro: Bearings are Relative to True North

Vertical Section Calculated from Well Head Location

Closure Calculated from Well Head Location

Horizontal Coordinates Calculated from Well Head Location



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MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
0.00	0.00	0.00	0.00	0.00	0.0 0.0	0.00 N 0.00 E

0 - 4517 FT. RATE GYROSCOPIC MULTISHOT SURVEY RUN INSIDE 4- 1/2" DRILLPIPE						
ALL MEASURED DEPTHS AND COORDINATES REFERENCED TO PATTERSON RIG #498 R.K.B.						

100.00	0.22	118.74	0.22	100.00	0.2 118.7	0.09 S 0.17 E
200.00	0.33	85.65	0.19	200.00	0.6 104.8	0.17 S 0.63 E
300.00	0.32	87.78	0.02	300.00	1.2 96.4	0.13 S 1.19 E
400.00	0.28	83.24	0.04	400.00	1.7 93.1	0.09 S 1.72 E
500.00	1.47	105.51	1.21	499.98	3.2 97.2	0.41 S 3.20 E
600.00	1.64	102.32	0.19	599.95	5.9 100.3	1.06 S 5.84 E
700.00	1.84	107.51	0.25	699.90	9.0 101.9	1.84 S 8.77 E
800.00	2.28	101.09	0.50	799.83	12.5 102.5	2.71 S 12.25 E
900.00	3.79	94.76	1.55	899.69	17.8 100.9	3.37 S 17.50 E
1000.00	3.91	95.08	0.12	999.47	24.5 99.3	3.94 S 24.19 E
1100.00	3.10	96.79	0.82	1099.28	30.6 98.6	4.56 S 30.27 E
1200.00	2.27	99.73	0.84	1199.17	35.3 98.5	5.22 S 34.90 E
1300.00	2.08	93.83	0.29	1299.10	39.1 98.3	5.67 S 38.66 E
1400.00	2.04	88.24	0.21	1399.03	42.6 97.7	5.74 S 42.25 E
1500.00	1.94	86.96	0.11	1498.97	46.1 97.0	5.60 S 45.72 E
1600.00	1.53	93.88	0.46	1598.92	49.1 96.5	5.60 S 48.74 E
1700.00	1.39	96.51	0.15	1698.89	51.6 96.5	5.82 S 51.27 E
1800.00	1.33	99.98	0.10	1798.86	54.0 96.6	6.16 S 53.62 E
1900.00	1.28	102.87	0.08	1898.84	56.2 96.8	6.61 S 55.85 E

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Lease: ICE BOX 1823-30 Well: STATE COM #1, 4- 1/2" DRILLPIPE

Job Number: MD0606GW212

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
2000.00	1.11	105.57	0.18	1998.82	58.3 97.0	7.12 S 57.87 E
2100.00	1.00	103.35	0.11	2098.80	60.1 97.2	7.58 S 59.66 E
2200.00	0.98	108.93	0.10	2198.78	61.8 97.5	8.06 S 61.32 E
2300.00	0.78	111.34	0.21	2298.77	63.3 97.8	8.59 S 62.76 E
2400.00	0.82	113.11	0.04	2398.76	64.7 98.1	9.11 S 64.05 E
2500.00	0.76	110.72	0.07	2498.75	66.0 98.4	9.63 S 65.32 E
2600.00	0.68	113.41	0.08	2598.75	67.2 98.6	10.10 S 66.49 E
2700.00	0.57	119.17	0.13	2698.74	68.3 98.9	10.58 S 67.46 E
2800.00	0.48	118.15	0.09	2798.74	69.2 99.2	11.02 S 68.27 E
2900.00	0.40	123.37	0.09	2898.73	69.9 99.4	11.40 S 68.93 E
3000.00	0.32	132.08	0.10	2998.73	70.4 99.6	11.78 S 69.42 E
3100.00	0.36	137.81	0.05	3098.73	70.9 99.9	12.20 S 69.84 E
3200.00	0.25	149.54	0.12	3198.73	71.3 100.2	12.62 S 70.16 E
3300.00	0.24	166.85	0.08	3298.73	71.5 100.5	13.01 S 70.32 E
3400.00	0.19	182.26	0.08	3398.73	71.6 100.8	13.38 S 70.36 E
3500.00	0.21	189.91	0.03	3498.73	71.6 101.0	13.72 S 70.32 E
3600.00	0.13	177.90	0.09	3598.72	71.7 101.3	14.01 S 70.29 E
3700.00	0.20	185.27	0.07	3698.72	71.7 101.5	14.30 S 70.28 E
3800.00	0.16	185.89	0.03	3798.72	71.8 101.7	14.60 S 70.25 E
3900.00	0.13	132.57	0.13	3898.72	71.9 101.9	14.82 S 70.32 E
4000.00	0.04	209.94	0.12	3998.72	71.9 102.0	14.92 S 70.38 E
4100.00	0.08	159.52	0.06	4098.72	72.0 102.0	15.01 S 70.39 E
4200.00	0.05	1.65	0.13	4198.72	72.0 102.0	15.03 S 70.42 E

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Lease: ICE BOX 1823-30 Well: STATE COM #1, 4- 1/2" DRILLPIPE

Job Number: MD0606GW212

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
4300.00	0.09	109.81	0.12	4298.72	72.1 102.0	15.01 S 70.49 E
4400.00	0.03	278.00	0.13	4398.72	72.1 102.0	15.04 S 70.54 E
4500.00	0.28	182.26	0.29	4498.72	72.1 102.2	15.28 S 70.50 E
4517.00	0.32	178.14	0.26	4515.72	72.2 102.3	15.37 S 70.50 E

Final Station Closure: Distance: 72.16 ft Az: 102.30 deg.

Pathfinder

Survey Report

Page 1
Job No: 101005629
Date: 7/14/2006
Time: 8:40 am
Wellpath ID: 01005629
Date Created: 6/24/2006
Last Revision: 7/14/2006

Calculated using the Minimum Curvature Method
Computed using PDS VER2.2.6
Vertical Section Plane: 180.00 deg.

Survey Reference: WELLHEAD
Vertical Section Reference: WELLHEAD
Closure Reference: WELLHEAD
TVD Reference: WELLHEAD

Parallel Petroleum Corp.
Eddy County, NM.
Ice Box 1830-30 State Com
Ice Box 1830-30 State Com
1830-30

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	Course Length (ft)	TVD (ft)	Vertical Section (ft)	T O T A L Rectangular Offsets (ft)		DLS (dg/100ft)
3900.00	0.13	132.79	0.00	3898.72	15.09	15.09 S	70.26 E	0.00
3939.00	0.58	146.95	39.00	3937.72	15.29	15.29 S	70.40 E	1.17
3971.00	1.76	137.42	32.00	3969.71	15.78	15.78 S	70.82 E	3.72
4003.00	2.75	118.77	32.00	4001.69	16.51	16.51 S	71.83 E	3.81
4035.00	3.87	147.76	32.00	4033.64	17.80	17.80 S	73.08 E	6.19
4068.00	5.38	164.95	33.00	4066.53	20.23	20.23 S	74.07 E	6.16
4097.00	10.82	176.55	29.00	4095.23	24.27	24.27 S	74.59 E	19.49
4131.00	16.00	175.94	34.00	4128.29	32.13	32.13 S	75.11 E	15.24
4162.00	23.48	176.12	31.00	4157.45	42.57	42.57 S	75.83 E	24.13
4194.00	29.28	176.47	32.00	4186.11	56.75	56.75 S	76.75 E	18.13
4226.00	36.05	177.35	32.00	4213.03	73.99	73.99 S	77.67 E	21.21
4258.00	40.01	178.14	32.00	4238.23	93.68	93.68 S	78.44 E	12.47
4289.00	45.29	179.19	31.00	4261.02	114.67	114.67 S	78.92 E	17.19
4320.00	49.42	179.63	31.00	4282.02	137.47	137.47 S	79.15 E	13.36
4352.00	54.26	179.90	32.00	4301.79	162.62	162.62 S	79.25 E	15.14
4384.00	58.65	181.30	32.00	4319.46	189.28	189.28 S	78.96 E	14.19
4416.00	62.70	183.15	32.00	4335.13	217.16	217.16 S	77.87 E	13.62
4447.00	67.09	183.32	31.00	4348.28	245.17	245.17 S	76.28 E	14.17
4479.00	71.49	182.18	32.00	4359.60	275.06	275.06 S	74.85 E	14.15
4511.00	76.59	181.30	32.00	4368.39	305.81	305.81 S	73.92 E	16.16
4547.00	83.01	180.42	36.00	4374.77	341.22	341.22 S	73.39 E	17.99
4579.00	86.17	180.34	32.00	4377.78	373.07	373.07 S	73.18 E	9.88
4610.00	87.58	180.51	31.00	4379.47	404.02	404.02 S	72.95 E	4.58
4642.00	87.05	180.60	32.00	4380.97	435.98	435.98 S	72.64 E	1.68
4706.00	89.78	180.60	64.00	4382.74	499.95	499.95 S	71.97 E	4.27
4738.00	91.54	180.51	32.00	4382.37	531.94	531.94 S	71.66 E	5.51
4769.00	91.45	180.16	31.00	4381.56	562.93	562.93 S	71.48 E	1.17
4801.00	91.10	179.81	32.00	4380.85	594.93	594.93 S	71.49 E	1.55
4832.00	90.84	179.28	31.00	4380.33	625.92	625.92 S	71.74 E	1.90
4864.00	90.66	178.93	32.00	4379.91	657.91	657.91 S	72.24 E	1.23
4896.00	90.92	179.10	32.00	4379.47	689.91	689.91 S	72.79 E	0.97
4928.00	90.66	179.37	32.00	4379.03	721.90	721.90 S	73.21 E	1.17
4959.00	90.57	179.46	31.00	4378.69	752.90	752.90 S	73.53 E	0.41
4991.00	90.31	179.37	32.00	4378.45	784.89	784.89 S	73.86 E	0.86
5023.00	90.22	179.46	32.00	4378.30	816.89	816.89 S	74.18 E	0.40
5055.00	89.78	179.81	32.00	4378.30	848.89	848.89 S	74.39 E	1.76
5086.00	89.60	179.72	31.00	4378.47	879.89	879.89 S	74.51 E	0.65
5118.00	90.31	179.98	32.00	4378.49	911.89	911.89 S	74.60 E	2.36
5150.00	90.31	179.98	32.00	4378.32	943.89	943.89 S	74.61 E	0.00
5182.00	90.30	179.72	32.00	4378.15	975.89	975.89 S	74.69 E	0.81
5214.00	90.13	180.07	32.00	4378.03	1007.89	1007.89 S	74.75 E	1.22
5245.00	90.13	179.98	31.00	4377.96	1038.89	1038.89 S	74.74 E	0.29
5277.00	89.96	180.34	32.00	4377.93	1070.89	1070.89 S	74.65 E	1.24
5309.00	89.06	180.34	32.00	4378.21	1102.89	1102.89 S	74.46 E	2.81
5341.00	88.55	180.42	32.00	4378.88	1134.88	1134.88 S	74.25 E	1.61
5372.00	88.64	180.25	31.00	4379.64	1165.87	1165.87 S	74.07 E	0.62
5404.00	88.55	180.42	32.00	4380.42	1197.86	1197.86 S	73.88 E	0.60

Pathfinder Survey Report

Page 2
Date: 7/14/2006
Wellpath ID: 01005629

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	Course Length (ft)	TVD (ft)	Vertical Section (ft)	T O T A L Rectangular Offsets (ft)		DLS (dg/100ft)
5436.00	88.46	180.42	32.00	4381.25	1229.85	1229.85 S	73.64 E	0.28
5468.00	88.90	180.34	32.00	4381.99	1261.84	1261.84 S	73.43 E	1.40
5499.00	89.43	180.60	31.00	4382.44	1292.83	1292.83 S	73.18 E	1.90
5531.00	89.16	180.51	32.00	4382.84	1324.83	1324.83 S	72.87 E	0.89
5563.00	88.90	180.60	32.00	4383.38	1356.82	1356.82 S	72.56 E	0.86
5595.00	88.81	181.13	32.00	4384.02	1388.81	1388.81 S	72.08 E	1.68
5626.00	89.25	180.95	31.00	4384.54	1419.80	1419.80 S	71.51 E	1.53
5658.00	89.60	180.86	32.00	4384.86	1451.80	1451.80 S	71.01 E	1.13
5689.00	89.69	181.04	31.00	4385.06	1482.79	1482.79 S	70.49 E	0.65
5721.00	89.43	180.77	32.00	4385.30	1514.79	1514.79 S	69.99 E	1.17
5752.00	89.78	180.95	31.00	4385.52	1545.78	1545.78 S	69.52 E	1.27
5784.00	89.69	180.95	32.00	4385.66	1577.78	1577.78 S	68.99 E	0.28
5815.00	89.25	180.77	31.00	4385.95	1608.77	1608.77 S	68.53 E	1.53
5847.00	89.52	180.69	32.00	4386.29	1640.77	1640.77 S	68.12 E	0.88
5878.00	90.48	180.51	31.00	4386.29	1671.77	1671.77 S	67.79 E	3.15
5910.00	90.48	180.25	32.00	4386.03	1703.76	1703.76 S	67.58 E	0.81
5941.00	90.22	180.25	31.00	4385.84	1734.76	1734.76 S	67.45 E	0.84
5973.00	89.87	179.98	32.00	4385.81	1766.76	1766.76 S	67.38 E	1.38
6004.00	89.96	180.34	31.00	4385.86	1797.76	1797.76 S	67.30 E	1.20
6036.00	91.28	180.60	32.00	4385.51	1829.76	1829.76 S	67.03 E	4.20
6067.00	92.24	180.25	31.00	4384.56	1860.74	1860.74 S	66.80 E	3.30
6099.00	92.77	179.81	32.00	4383.16	1892.71	1892.71 S	66.79 E	2.15
6131.00	92.51	180.25	32.00	4381.69	1924.68	1924.68 S	66.77 E	1.60
6162.00	92.51	180.16	31.00	4380.33	1955.65	1955.65 S	66.66 E	0.29
6194.00	92.24	179.90	32.00	4379.00	1987.62	1987.62 S	66.64 E	1.17
6225.00	91.45	179.63	31.00	4378.00	2018.60	2018.60 S	66.77 E	2.69
6257.00	90.48	180.16	32.00	4377.47	2050.60	2050.60 S	66.83 E	3.45
6288.00	90.48	180.42	31.00	4377.21	2081.60	2081.60 S	66.67 E	0.84
6320.00	89.96	180.42	32.00	4377.08	2113.60	2113.60 S	66.44 E	1.63
6351.00	89.34	180.42	31.00	4377.27	2144.60	2144.60 S	66.21 E	2.00
6383.00	89.08	180.16	32.00	4377.71	2176.59	2176.59 S	66.05 E	1.15
6415.00	88.90	180.25	32.00	4378.28	2208.59	2208.59 S	65.93 E	0.63
6446.00	88.90	180.69	31.00	4378.87	2239.58	2239.58 S	65.68 E	1.42
6478.00	89.52	180.25	32.00	4379.31	2271.58	2271.58 S	65.42 E	2.38
6509.00	89.16	180.07	31.00	4379.67	2302.57	2302.57 S	65.33 E	1.30
6541.00	89.34	179.98	32.00	4380.09	2334.57	2334.57 S	65.32 E	0.63
6572.00	89.25	179.98	31.00	4380.47	2365.57	2365.57 S	65.33 E	0.29
6604.00	89.43	180.07	32.00	4380.84	2397.57	2397.57 S	65.31 E	0.63
6635.00	89.34	180.07	31.00	4381.17	2428.56	2428.56 S	65.28 E	0.29
6667.00	89.78	180.07	32.00	4381.42	2460.56	2460.56 S	65.24 E	1.38
6698.00	89.78	180.16	31.00	4381.54	2491.56	2491.56 S	65.17 E	0.29
6730.00	89.69	180.34	32.00	4381.69	2523.56	2523.56 S	65.03 E	0.63
6761.00	90.30	179.90	31.00	4381.69	2554.56	2554.56 S	64.97 E	2.43
6793.00	90.22	180.34	32.00	4381.54	2586.56	2586.56 S	64.90 E	1.40
6824.00	90.13	180.51	31.00	4381.45	2617.56	2617.56 S	64.67 E	0.62
6856.00	89.96	180.07	32.00	4381.42	2649.56	2649.56 S	64.51 E	1.47
6887.00	89.69	179.90	31.00	4381.52	2680.56	2680.56 S	64.52 E	1.03
6919.00	89.96	179.90	32.00	4381.62	2712.56	2712.56 S	64.57 E	0.84
6950.00	90.40	179.28	31.00	4381.52	2743.56	2743.56 S	64.80 E	2.45
6982.00	90.31	178.66	32.00	4381.32	2775.55	2775.55 S	65.37 E	1.96
7014.00	90.22	178.60	32.00	4381.17	2807.54	2807.54 S	66.14 E	0.34
7045.00	89.52	178.75	31.00	4381.24	2838.53	2838.53 S	66.85 E	2.31
7077.00	88.55	179.90	32.00	4381.78	2870.53	2870.53 S	67.23 E	4.70
7108.00	88.20	180.16	31.00	4382.66	2901.51	2901.51 S	67.21 E	1.41
7140.00	88.90	179.98	32.00	4383.47	2933.50	2933.50 S	67.17 E	2.26
7172.00	88.81	180.60	32.00	4384.11	2965.50	2965.50 S	67.01 E	1.96
7203.00	89.08	180.51	31.00	4384.68	2996.49	2996.49 S	66.71 E	0.92
7235.00	89.52	180.69	32.00	4385.07	3028.49	3028.49 S	66.38 E	1.49
7266.00	89.43	180.00	31.00	4385.36	3059.48	3059.48 S	66.19 E	2.24
7298.00	89.34	180.69	32.00	4385.70	3091.48	3091.48 S	66.00 E	2.17

Pathfinder Survey Report

Page 3
Date: 7/14/2006
Wellpath ID: 01005629

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	Course Length (ft)	TVD (ft)	Vertical Section (ft)	T O T A L Rectangular Offsets (ft)	DLS (dg/100ft)
7329.00	89.79	180.60	31.00	4385.94	3122.48	3122.48 S 65.65 E	1.48
7361.00	89.78	181.04	32.00	4386.06	3154.47	3154.47 S 65.19 E	1.38
7392.00	89.87	181.48	31.00	4386.15	3185.47	3185.47 S 64.51 E	1.45
7424.00	89.87	181.39	32.00	4386.22	3217.46	3217.46 S 63.71 E	0.28
7455.00	89.60	181.74	31.00	4386.37	3248.45	3248.45 S 62.86 E	1.43
7487.00	89.43	181.21	32.00	4386.64	3280.43	3280.43 S 62.04 E	1.74
7518.00	89.52	181.92	31.00	4386.92	3311.42	3311.42 S 61.19 E	2.31
7550.00	89.96	181.74	32.00	4387.07	3343.40	3343.40 S 60.17 E	1.49
7582.00	90.48	181.83	32.00	4386.94	3375.39	3375.39 S 59.17 E	1.65
7613.00	90.92	182.01	31.00	4386.56	3406.37	3406.37 S 58.13 E	1.53
7645.00	90.92	182.18	32.00	4386.05	3438.34	3438.34 S 56.96 E	0.53
7676.00	91.01	181.92	31.00	4385.53	3469.32	3469.32 S 55.86 E	0.89
7708.00	90.92	181.92	32.00	4384.99	3501.30	3501.30 S 54.78 E	0.28
7739.00	91.01	181.83	31.00	4384.47	3532.27	3532.27 S 53.77 E	0.41
7771.00	90.92	181.92	32.00	4383.93	3564.25	3564.25 S 52.72 E	0.40
7803.00	90.66	182.18	32.00	4383.49	3596.23	3596.23 S 51.58 E	1.15
7834.00	90.48	182.09	31.00	4383.18	3627.21	3627.21 S 50.42 E	0.65
7866.00	90.48	182.09	32.00	4382.91	3659.18	3659.18 S 49.26 E	0.00
7897.00	90.48	181.92	31.00	4382.65	3690.16	3690.16 S 48.17 E	0.55
7929.00	90.22	181.74	32.00	4382.46	3722.15	3722.15 S 47.15 E	0.99
7960.00	90.31	181.92	31.00	4382.31	3753.13	3753.13 S 46.16 E	0.65
7992.00	90.04	182.01	32.00	4382.21	3785.11	3785.11 S 45.06 E	0.89
8023.00	90.31	182.36	31.00	4382.12	3816.09	3816.09 S 43.88 E	1.43
8055.00	90.31	182.44	32.00	4381.95	3848.06	3848.06 S 42.54 E	0.25
8087.00	89.43	181.13	32.00	4382.02	3880.04	3880.04 S 41.54 E	4.93
8118.00	89.87	181.13	31.00	4382.21	3911.04	3911.04 S 40.93 E	1.42
8150.00	90.31	181.92	32.00	4382.16	3943.02	3943.02 S 40.08 E	2.83
8181.00	90.57	182.36	31.00	4381.92	3974.00	3974.00 S 38.92 E	1.65
8213.00	90.48	181.65	32.00	4381.63	4005.98	4005.98 S 37.80 E	2.24
8244.00	90.57	180.25	31.00	4381.34	4036.97	4036.97 S 37.29 E	4.53
8276.00	89.87	179.02	32.00	4381.22	4068.97	4068.97 S 37.49 E	4.42
8308.00	89.43	178.14	32.00	4381.41	4100.96	4100.96 S 38.29 E	3.07
8339.00	89.87	178.40	31.00	4381.60	4131.95	4131.95 S 39.22 E	1.65
8371.00	90.13	178.93	32.00	4381.60	4163.94	4163.94 S 39.97 E	1.84
8402.00	90.13	178.84	31.00	4381.53	4194.93	4194.93 S 40.57 E	0.29
8430.00	89.87	179.37	28.00	4381.53	4222.93	4222.93 S 41.01 E	2.11
PROJECTION TO BIT							
8500.00	89.87	179.37	70.00	4381.69	4292.92	4292.92 S 41.78 E	0.00