

30-015-34995

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Pathfinder Energy

Planning Report

Company: Marbob Energy	Date: 6/22/2006	Time: 17:35:54	Page: 2
Field: Whiskey Girl FEE #2	Co-ordinate(NE) Reference:	Well: Whiskey Girl FEE #2, Grid North	
Site: Whiskey Girl FEE #2	Vertical (TVD) Reference:	SITE 3175.0	
Well: Whiskey Girl FEE #2	Section (VS) Reference:	Well (0.00N,0.00E,0.00Azi)	
Wellpath: Original Hole	Plan:	Plan #1 6-21-06	

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
1500.00	0.00	33.69	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	
1600.00	0.00	33.69	1600.00	0.00	0.00	0.00	0.00	0.00	0.00	
1700.00	0.00	33.69	1700.00	0.00	0.00	0.00	0.00	0.00	0.00	
1800.00	0.00	33.69	1800.00	0.00	0.00	0.00	0.00	0.00	0.00	
1900.00	0.00	33.69	1900.00	0.00	0.00	0.00	0.00	0.00	0.00	
2000.00	0.00	33.69	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2100.00	0.00	33.69	2100.00	0.00	0.00	0.00	0.00	0.00	0.00	
2200.00	0.00	33.69	2200.00	0.00	0.00	0.00	0.00	0.00	0.00	
2300.00	0.00	33.69	2300.00	0.00	0.00	0.00	0.00	0.00	0.00	
2400.00	0.00	33.69	2400.00	0.00	0.00	0.00	0.00	0.00	0.00	
2500.00	0.00	33.69	2500.00	0.00	0.00	0.00	0.00	0.00	0.00	
2601.18	0.00	33.69	2601.18	0.00	0.00	0.00	0.00	0.00	0.00	KOP
2700.00	1.98	33.69	2699.98	1.42	0.95	1.42	2.00	2.00	0.00	
2800.00	3.98	33.69	2799.84	5.74	3.83	5.74	2.00	2.00	0.00	
2900.00	5.98	33.69	2899.46	12.96	8.64	12.96	2.00	2.00	0.00	
3000.00	7.98	33.69	2998.71	23.06	15.37	23.06	2.00	2.00	0.00	
3100.00	9.98	33.69	3097.48	36.04	24.03	36.04	2.00	2.00	0.00	
3201.18	12.00	33.69	3196.80	52.09	34.73	52.09	2.00	2.00	0.00	End of Build @ 12° Inc.
3300.00	12.00	33.69	3293.46	69.18	46.12	69.18	0.00	0.00	0.00	
3400.00	12.00	33.69	3391.28	86.48	57.66	86.48	0.00	0.00	0.00	
3500.00	12.00	33.69	3489.09	103.78	69.19	103.78	0.00	0.00	0.00	
3600.00	12.00	33.69	3586.91	121.08	80.72	121.08	0.00	0.00	0.00	
3700.00	12.00	33.69	3684.72	138.38	92.25	138.38	0.00	0.00	0.00	
3800.00	12.00	33.69	3782.54	155.68	103.79	155.68	0.00	0.00	0.00	
3900.00	12.00	33.69	3880.35	172.98	115.32	172.98	0.00	0.00	0.00	
4000.00	12.00	33.69	3978.17	190.28	126.85	190.28	0.00	0.00	0.00	
4100.00	12.00	33.69	4075.98	207.58	138.39	207.58	0.00	0.00	0.00	
4200.00	12.00	33.69	4173.80	224.88	149.92	224.88	0.00	0.00	0.00	
4300.00	12.00	33.69	4271.61	242.18	161.45	242.18	0.00	0.00	0.00	
4400.00	12.00	33.69	4369.43	259.48	172.98	259.48	0.00	0.00	0.00	
4500.00	12.00	33.69	4467.24	276.78	184.52	276.78	0.00	0.00	0.00	
4600.00	12.00	33.69	4565.06	294.07	196.05	294.07	0.00	0.00	0.00	
4700.00	12.00	33.69	4662.87	311.37	207.58	311.37	0.00	0.00	0.00	
4800.00	12.00	33.69	4760.69	328.67	219.12	328.67	0.00	0.00	0.00	
4900.00	12.00	33.69	4858.50	345.97	230.65	345.97	0.00	0.00	0.00	
5000.00	12.00	33.69	4956.31	363.27	242.18	363.27	0.00	0.00	0.00	
5100.00	12.00	33.69	5054.13	380.57	253.71	380.57	0.00	0.00	0.00	
5200.00	12.00	33.69	5151.94	397.87	265.25	397.87	0.00	0.00	0.00	
5300.00	12.00	33.69	5249.76	415.17	276.78	415.17	0.00	0.00	0.00	
5400.00	12.00	33.69	5347.57	432.47	288.31	432.47	0.00	0.00	0.00	
5500.00	12.00	33.69	5445.39	449.77	299.85	449.77	0.00	0.00	0.00	
5600.00	12.00	33.69	5543.20	467.07	311.38	467.07	0.00	0.00	0.00	
5700.00	12.00	33.69	5641.02	484.37	322.91	484.37	0.00	0.00	0.00	
5800.00	12.00	33.69	5738.83	501.67	334.44	501.67	0.00	0.00	0.00	
5900.00	12.00	33.69	5836.65	518.97	345.98	518.97	0.00	0.00	0.00	
6000.00	12.00	33.69	5934.46	536.26	357.51	536.26	0.00	0.00	0.00	
6100.00	12.00	33.69	6032.28	553.56	369.04	553.56	0.00	0.00	0.00	
6200.00	12.00	33.69	6130.09	570.86	380.58	570.86	0.00	0.00	0.00	
6300.00	12.00	33.69	6227.91	588.16	392.11	588.16	0.00	0.00	0.00	
6400.00	12.00	33.69	6325.72	605.46	403.64	605.46	0.00	0.00	0.00	
6500.00	12.00	33.69	6423.54	622.76	415.17	622.76	0.00	0.00	0.00	
6600.00	12.00	33.69	6521.35	640.06	426.71	640.06	0.00	0.00	0.00	
6700.00	12.00	33.69	6619.17	657.36	438.24	657.36	0.00	0.00	0.00	
6800.00	12.00	33.69	6716.98	674.66	449.77	674.66	0.00	0.00	0.00	

Pathfinder Energy

Planning Report

Company: Marbob Energy Field: Whiskey Girl FEE #2 Site: Whiskey Girl FEE #2 Well: Whiskey Girl FEE #2 Wellpath: Original Hole	Date: 6/22/2006 Co-ordinate(NE) Reference: Well: Whiskey Girl FEE #2, Grid North Vertical (TVD) Reference: SITE 3175.0 Section (VS) Reference: Well (0.00N,0.00E,0.00Azi) Plan: Plan #1.6-21-06
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Survey										
MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
6900.00	12.00	33.69	6814.80	691.96	461.31	691.96	0.00	0.00	0.00	
7000.00	12.00	33.69	6912.61	709.26	472.84	709.26	0.00	0.00	0.00	
7100.00	12.00	33.69	7010.42	726.56	484.37	726.56	0.00	0.00	0.00	
7200.00	12.00	33.69	7108.24	743.86	495.90	743.86	0.00	0.00	0.00	
7300.00	12.00	33.69	7206.05	761.16	507.44	761.16	0.00	0.00	0.00	
7400.00	12.00	33.69	7303.87	778.45	518.97	778.45	0.00	0.00	0.00	
7500.00	12.00	33.69	7401.68	795.75	530.50	795.75	0.00	0.00	0.00	
7600.00	12.00	33.69	7499.50	813.05	542.04	813.05	0.00	0.00	0.00	
7700.00	12.00	33.69	7597.31	830.35	553.57	830.35	0.00	0.00	0.00	
7800.00	12.00	33.69	7695.13	847.65	565.10	847.65	0.00	0.00	0.00	
7900.00	12.00	33.69	7792.94	864.95	576.63	864.95	0.00	0.00	0.00	
8000.00	12.00	33.69	7890.76	882.25	588.17	882.25	0.00	0.00	0.00	
8100.00	12.00	33.69	7988.57	899.55	599.70	899.55	0.00	0.00	0.00	
8200.00	12.00	33.69	8086.39	916.85	611.23	916.85	0.00	0.00	0.00	
8300.00	12.00	33.69	8184.20	934.15	622.77	934.15	0.00	0.00	0.00	
8400.00	12.00	33.69	8282.02	951.45	634.30	951.45	0.00	0.00	0.00	
8500.00	12.00	33.69	8379.83	968.75	645.83	968.75	0.00	0.00	0.00	
8600.00	12.00	33.69	8477.65	986.05	657.36	986.05	0.00	0.00	0.00	
8622.85	12.00	33.69	8500.00	990.00	660.00	990.00	0.00	0.00	0.00	Target @ 8500'
8700.00	11.61	33.69	8575.51	1003.13	668.76	1003.13	0.50	-0.50	0.00	
8800.00	11.11	33.69	8673.55	1019.53	679.69	1019.53	0.50	-0.50	0.00	Allow Natural Drop to TD
8900.00	10.61	33.69	8771.76	1035.21	690.14	1035.21	0.50	-0.50	0.00	
9000.00	10.11	33.69	8870.13	1050.18	700.12	1050.18	0.50	-0.50	0.00	
9100.00	9.61	33.69	8968.65	1064.44	709.62	1064.44	0.50	-0.50	0.00	
9131.79	9.46	33.69	9000.00	1068.82	712.54	1068.82	0.50	-0.50	0.00	
9200.00	9.28	33.69	9067.30	1078.06	718.70	1078.06	0.25	-0.25	0.00	
9300.00	9.03	33.69	9166.03	1091.30	727.53	1091.30	0.25	-0.25	0.00	
9400.00	8.78	33.69	9264.82	1104.19	736.13	1104.19	0.25	-0.25	0.00	
9500.00	8.53	33.69	9363.68	1116.72	744.48	1116.72	0.25	-0.25	0.00	
9600.00	8.28	33.69	9462.60	1128.89	752.59	1128.89	0.25	-0.25	0.00	
9700.00	8.03	33.69	9561.59	1140.70	760.46	1140.70	0.25	-0.25	0.00	
9800.00	7.78	33.69	9660.64	1152.15	768.10	1152.15	0.25	-0.25	0.00	
9900.00	7.53	33.69	9759.75	1163.24	775.49	1163.24	0.25	-0.25	0.00	
10000.00	7.28	33.69	9858.91	1173.97	782.64	1173.97	0.25	-0.25	0.00	
10100.00	7.03	33.69	9958.13	1184.34	789.56	1184.34	0.25	-0.25	0.00	
10200.00	6.78	33.69	10057.41	1194.35	796.23	1194.35	0.25	-0.25	0.00	
10300.00	6.53	33.69	10156.73	1204.00	802.66	1204.00	0.25	-0.25	0.00	
10400.00	6.28	33.69	10256.11	1213.29	808.86	1213.29	0.25	-0.25	0.00	
10500.00	6.03	33.69	10355.53	1222.21	814.81	1222.21	0.25	-0.25	0.00	
10600.00	5.78	33.69	10455.00	1230.78	820.52	1230.78	0.25	-0.25	0.00	
10700.00	5.53	33.69	10554.51	1238.99	825.99	1238.99	0.25	-0.25	0.00	
10800.00	5.28	33.69	10654.06	1246.83	831.22	1246.83	0.25	-0.25	0.00	
10900.00	5.03	33.69	10753.66	1254.31	836.21	1254.31	0.25	-0.25	0.00	
11000.00	4.78	33.69	10853.29	1261.44	840.96	1261.44	0.25	-0.25	0.00	
11100.00	4.53	33.69	10952.96	1268.19	845.46	1268.19	0.25	-0.25	0.00	
11200.00	4.28	33.69	11052.66	1274.59	849.73	1274.59	0.25	-0.25	0.00	
11300.00	4.03	33.69	11152.40	1280.63	853.75	1280.63	0.25	-0.25	0.00	
11400.00	3.78	33.69	11252.17	1286.30	857.53	1286.30	0.25	-0.25	0.00	
11500.00	3.53	33.69	11351.96	1291.61	861.07	1291.61	0.25	-0.25	0.00	
11600.00	3.28	33.69	11451.79	1296.56	864.37	1296.56	0.25	-0.25	0.00	
11700.00	3.03	33.69	11551.63	1301.15	867.43	1301.15	0.25	-0.25	0.00	
11800.00	2.78	33.69	11651.51	1305.37	870.25	1305.37	0.25	-0.25	0.00	
11900.00	2.53	33.69	11751.40	1309.23	872.82	1309.23	0.25	-0.25	0.00	

Pathfinder Energy

Planning Report

Company: Marbob Energy Field: Whiskey Girl FEE #2 Site: Whiskey Girl FEE #2 Well: Whiskey Girl FEE #2 Wellpath: Original Hole	Date: 6/22/2006 Time: 17:35:54 Page: 4 Co-ordinate(NE) Reference: Well: Whiskey Girl FEE #2, Grid North Vertical (TYD) Reference: SITE 3175.0 Section (VS) Reference: Well (0.00N,0.00E,0.00Azi) Plan: Plan #1 6-21-06
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Survey

MD ft	Incl deg	Azin deg	TVD ft	+N-S ft	+E-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
12000.00	2.28	33.69	11851.31	1312.73	875.15	1312.73	0.25	-0.25	0.00	
12100.00	2.03	33.69	11951.24	1315.87	877.24	1315.87	0.25	-0.25	0.00	
12148.79	1.91	33.69	12000.00	1317.26	878.18	1317.26	0.25	-0.25	0.00	PBHL

Targets

Name	Description Dip.	Dir.	TVD ft	+N-S ft	+E-W ft	Map Northing ft	Map Easting ft	← Latitude → Deg Min Sec			← Longitude → Deg Min Sec		
Target @ 8500'			8500.00	990.00	660.00	507165.40	523282.00	32	23	39.443 N	104	15	28.455 W
-Plan hit target													
PBHL			15175.00	1317.26	878.18	507492.66	523500.18	32	23	42.680 N	104	15	25.908 W

Annotation

MD ft	TVD ft	
2601.18	2601.18	KOP
3201.18	3196.80	End of Build @ 12° Inc.
8800.00	8673.55	Allow Natural Drop to TD
12148.79	12000.00	PBHL

Marbob Energy Corporation

Whiskey Girl Fee #2
Section 14, T22-S, R26-E
Eddy County, New Mexico
Plan #1 6-22-06

COMPANY DETAILS

Marbob Energy
 2208 W. Main St.
 Artesia, New Mexico

Calculation Method: Minimum Curvature
 Error System: Systematic Elipse
 Scan Method: Closest Approach 3D
 Error Surface: Elliptical Conic
 Warning Method: Error Ratio



SECTION DETAILS

Sec	MD	Inc	Asi	TVD	+N-S	+E-W	DLeg	TFace	VSec	Target
1	0.00	0.00	33.69	0.00	0.00	0.00	0.00	0.00	0.00	
2	2601.18	0.00	33.69	2601.18	0.00	0.00	0.00	0.00	0.00	
3	3201.18	12.00	33.69	3196.80	52.09	34.73	2.00	35.07	52.09	
4	8622.85	12.00	33.69	8500.00	990.80	660.00	0.00	0.00	990.00	Target @ 8500'
5	9131.79	9.46	33.69	9000.00	1068.82	712.54	0.50	180.00	1068.82	
6	12148.79	1.91	33.69	12000.00	1317.26	878.18	0.25	180.00	1317.26	

SITE DETAILS

Whiskey Girl FEE #2

Site Centre Northing: 506175.40
 Easting: 522622.00

Ground Level: 3175.00
 Positional Uncertainty: 0.00
 Convergence: 0.04

