

# Pathfinder Energy

## Survey Report

<b>Company:</b> Marbob Energy <b>Field:</b> Compadre Fee #2 <b>Site:</b> Compadre Fee #2 <b>Well:</b> Compadre Fee #2 <b>Wellpath:</b> Original Hole	<b>Date:</b> 8/2/2006 <b>Co-ordinate(NE) Reference:</b> Site: Compadre Fee #2, True North <b>Vertical (TVD) Reference:</b> SITE 0.0 <b>Section (VS) Reference:</b> Well (0.00N,0.00E,90.00Azi)	<b>Time:</b> 15:22:36 <b>Survey Calculation Method:</b> Minimum Curvature	<b>Page:</b> 1 <b>Db:</b> Sybase
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**Field:** Compadre Fee #2  
Eddy County, NM

<b>Map System:</b> JS State Plane Coordinate System 1927 <b>Geo Datum:</b> NAD27 (Clarke 1866) <b>Sys Datum:</b> Mean Sea Level	<b>Map Zone:</b> New Mexico, Eastern Zone <b>Coordinate System:</b> Site Centre <b>Geomagnetic Model:</b> igrf2005
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**Site:** Compadre Fee #2  
Eddy County, NM  
Section 4, T22-S, R27-E

<b>Site Position:</b>	<b>Northing:</b> 517517.34 ft	<b>Latitude:</b> 32 25 21.670 N	
<b>From:</b> Geographic	<b>Easting:</b> 544524.98 ft	<b>Longitude:</b> 104 11 20.530 W	
<b>Position Uncertainty:</b> 0.00 ft		<b>North Reference:</b> True	
<b>Ground Level:</b> 0.00 ft		<b>Grid Convergence:</b> 0.08 deg	

**Well:** Compadre Fee #2

**Slot Name:**

<b>Well Position:</b> +N/-S 0.00 ft	<b>Northing:</b> 517517.34 ft	<b>Latitude:</b> 32 25 21.670 N	
+E/-W 0.00 ft	<b>Easting:</b> 544524.98 ft	<b>Longitude:</b> 104 11 20.530 W	
<b>Position Uncertainty:</b> 0.00 ft			

**Wellpath:** Original Hole

**Drilled From:** Surface

<b>Current Datum:</b> SITE	<b>Height</b> 0.00 ft	<b>Tie-on Depth:</b> 0.00 ft	<b>Above System Datum:</b> Mean Sea Level
<b>Magnetic Data:</b> 7/26/2006		<b>Declination:</b> 8.45 deg	
<b>Field Strength:</b> 49197 nT		<b>Mag Dip Angle:</b> 60.38 deg	
<b>Vertical Section: Depth From (TVD)</b>	<b>+N/-S</b>	<b>+E/-W</b>	<b>Direction</b>
ft	ft	ft	deg
0.00	0.00	0.00	90.00

**Survey:** Pathfinder MWD Surveys

**Start Date:** 8/2/2006

**Company:** Pathfinder Energy  
**Tool:**

**Engineer:** Midwellplan  
**Tied-to:** From Surface

**Survey:** Pathfinder MWD Surveys

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
0.00	0.00	78.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
473.00	1.41	78.67	472.95	1.14	5.71	5.71	0.30	0.30	0.00	
503.00	1.58	72.96	502.94	1.34	6.46	6.46	0.75	0.57	-19.03	
533.00	1.41	84.83	532.93	1.49	7.23	7.23	1.17	-0.57	39.57	
563.00	1.58	88.69	562.92	1.53	8.01	8.01	0.66	0.57	12.87	
592.00	1.58	82.89	591.91	1.59	8.80	8.80	0.55	0.00	-20.00	
622.00	2.11	89.22	621.90	1.65	9.77	9.77	1.89	1.77	21.10	
682.00	2.55	85.09	681.85	1.78	12.20	12.20	0.78	0.73	-6.88	
709.00	2.55	85.88	708.82	1.88	13.40	13.40	0.13	0.00	2.93	
737.00	2.55	81.75	736.79	2.01	14.64	14.64	0.66	0.00	-14.75	
766.00	2.20	72.70	765.77	2.27	15.81	15.81	1.77	-1.21	-31.21	
823.00	2.46	63.12	822.72	3.15	17.94	17.94	0.82	0.46	-16.81	
882.00	2.73	47.91	881.66	4.66	20.11	20.11	1.25	0.46	-25.78	
944.00	2.99	51.78	943.58	6.65	22.48	22.48	0.52	0.42	6.24	
1008.00	4.81	71.91	1007.43	8.52	26.34	26.34	3.52	2.84	31.45	
1071.00	5.63	69.45	1070.17	10.42	31.75	31.75	1.35	1.30	-3.90	
1134.00	7.12	73.66	1132.78	12.60	38.39	38.39	2.48	2.37	6.68	
1198.00	7.03	79.38	1196.29	14.44	46.04	46.04	1.11	-0.14	8.94	
1261.00	6.95	81.57	1258.83	15.71	53.60	53.60	0.44	-0.13	3.48	
1324.00	6.68	81.93	1321.38	16.79	61.00	61.00	0.43	-0.43	0.57	
1387.00	6.86	79.99	1383.94	17.95	68.33	68.33	0.46	0.29	-3.08	
1418.00	6.77	81.31	1414.72	18.55	71.96	71.96	0.58	-0.29	4.26	
1513.00	6.51	90.36	1509.09	19.36	82.88	82.88	1.13	-0.27	9.53	
1577.00	5.89	92.21	1572.71	19.21	89.79	89.79	1.02	-0.97	2.89	

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<b>Company:</b> Marbob Energy <b>Field:</b> Compadre Fee #2 <b>Site:</b> Compadre Fee #2 <b>Well:</b> Compadre Fee #2 <b>Wellpath:</b> Orginal Hole	<b>Date:</b> 8/2/2006 <b>Time:</b> 15:22:36 <b>Page:</b> 2 <b>Co-ordinate(NE) Reference:</b> Site: Compadre Fee #2, True North <b>Vertical (TVD) Reference:</b> SITE 0.0 <b>Section (VS) Reference:</b> Well (0.00N,0.00E,90.00Azi) <b>Survey Calculation Method:</b> Minimum Curvature <b>Db:</b> Sybase
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**Survey: Pathfinder MWD Surveys**

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
1639.00	5.01	95.81	1634.43	18.82	95.67	95.67	1.52	-1.42	5.81	
1703.00	4.84	98.98	1698.20	18.11	101.11	101.11	0.50	-0.27	4.95	
1766.00	4.31	100.47	1761.00	17.27	106.07	106.07	0.86	-0.84	2.37	
1827.00	3.52	99.15	1821.85	16.55	110.17	110.17	1.30	-1.30	-2.16	
1890.00	3.25	94.32	1884.74	16.11	113.86	113.86	0.62	-0.43	-7.67	
1953.00	2.90	94.41	1947.65	15.85	117.23	117.23	0.56	-0.56	0.14	
2016.00	2.20	96.78	2010.59	15.59	120.02	120.02	1.12	-1.11	3.76	
2063.00	2.20	96.78	2057.56	15.38	121.81	121.81	0.00	0.00	0.00	