

Pathfinder Energy

Survey Report

Company: Marbob Energy	Date: 6/9/2006	Time: 11:43:44	Page: 1
Field: Rocket Fed #1	Co-ordinate(NE) Reference:	Well: Rocket Fed #1, True North	
Site: Rocket Fed #1	Vertical (TVD) Reference:	System: Mean Sea Level	
Well: Rocket Fed #1	Section (VS) Reference:	Well (0.00N,0.00E,5.06Azi)	
Wellpath: Original Hole	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Field: Rocket Fed #1

Map System: US State Plane Coordinate System 1927
 Geo Datum: NAD27 (Clarke 1866)
 Sys Datum: Mean Sea Level

Map Zone: New Mexico, Eastern Zone
 Coordinate System: Well Centre
 Geomagnetic Model: igrf2005

Site: Rocket Fed #1

Section 4, T26S, R29E; Eddy County New, Mexico

Site Position:	Northing: 387378.60 ft	Latitude: 32 3 52.312 N
From: Geographic	Easting: 608955.20 ft	Longitude: 103 58 53.808 W
Position Uncertainty: 0.00 ft		North Reference: True
Ground Level: 2964.00 ft		Grid Convergence: 0.19 deg

Well: Rocket Fed #1

Slot Name:

Well Position: +N/-S 0.00 ft	Northing: 387378.60 ft	Latitude: 32 3 52.312 N
+E/-W 0.00 ft	Easting: 608955.20 ft	Longitude: 103 58 53.808 W
Position Uncertainty: 0.00 ft		

Wellpath: Original Hole

Current Datum: Mean Sea Level	Height 0.00 ft	Drilled From: Surface
Magnetic Data: 4/3/2006		Tie-on Depth: 0.00 ft
Field Strength: 49033 nT		Above System Datum: Mean Sea Level
Vertical Section: Depth From (TVD)	+N/-S	Declination: 8.37 deg
ft	ft	Mag Dip Angle: 60.09 deg
		+E/-W
		ft
		Direction
		deg
0.00	0.00	0.00 5.06

Survey: Pathfinder MWD Survey

Start Date: 6/9/2006

Company: Pathfinder Energy
 Tool:

Engineer:
 Tied-to: From: Gyro Survey

Survey: Pathfinder MWD 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
4500.00	0.29	32.05	4499.48	11.79	9.65	12.59	0.00	0.00	0.00	
4544.00	0.09	234.48	4543.48	11.86	9.68	12.67	0.85	-0.45	-358.11	
4587.00	0.60	21.43	4586.48	12.05	9.73	12.86	1.57	1.19	341.74	
4619.00	2.11	17.45	4618.47	12.77	9.97	13.60	4.73	4.72	-12.44	
4651.00	4.31	13.17	4650.42	14.50	10.42	15.36	6.91	6.87	-13.37	
4683.00	6.60	8.34	4682.27	17.49	10.96	18.39	7.29	7.16	-15.09	
4715.00	9.23	5.43	4713.96	21.87	11.47	22.79	8.31	8.22	-9.09	
4746.00	12.66	5.70	4744.39	27.72	12.04	28.68	11.07	11.06	0.87	
4778.00	16.18	5.00	4775.38	35.66	12.78	36.65	11.01	11.00	-2.19	
4810.00	19.61	4.47	4805.83	45.46	13.59	46.48	10.73	10.72	-1.66	
4842.00	22.77	3.85	4835.66	56.99	14.42	58.04	9.90	9.87	-1.94	
4874.00	26.38	3.77	4864.76	70.27	15.31	71.34	11.28	11.28	-0.25	
4905.00	30.51	3.59	4892.01	85.00	16.25	86.10	13.33	13.32	-0.58	
4937.00	34.56	3.59	4918.98	102.17	17.33	103.30	12.66	12.66	0.00	
4969.00	38.69	4.03	4944.66	121.22	18.60	122.38	12.93	12.91	1.37	
5001.00	43.00	4.64	4968.86	142.08	20.19	143.31	13.53	13.47	1.91	
5033.00	47.22	5.08	4991.44	164.66	22.11	165.97	13.22	13.19	1.37	
5065.00	51.53	5.17	5012.27	188.85	24.28	190.25	13.47	13.47	0.28	
5096.00	55.57	4.91	5030.68	213.68	26.47	215.18	13.05	13.03	-0.84	
5128.00	59.79	4.56	5047.79	240.63	28.70	242.22	13.22	13.19	-1.09	
5160.00	64.37	4.29	5062.77	268.81	30.88	270.49	14.33	14.31	-0.84	
5192.00	68.85	4.20	5075.47	298.09	33.05	299.85	14.00	14.00	-0.28	
5224.00	73.25	4.38	5085.86	328.27	35.32	330.10	13.76	13.75	0.56	
5256.00	77.73	4.47	5093.87	359.14	37.71	361.07	14.00	14.00	0.28	

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Section (VS) Reference: Well (0.00N,0.00E,5.06Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: Pathfinder MWD 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
5319.00	86.97	5.35	5102.25	421.29	43.05	423.44	14.73	14.67	1.40	
5350.00	90.57	6.05	5102.91	452.12	46.13	454.43	11.83	11.61	2.26	
5382.00	90.66	6.14	5102.57	483.94	49.52	486.42	0.40	0.28	0.28	
5414.00	90.40	4.38	5102.28	515.80	52.46	518.42	5.56	-0.81	-5.50	
5446.00	90.22	3.59	5102.10	547.72	54.68	550.41	2.53	-0.56	-2.47	
5478.00	90.13	3.77	5102.00	579.66	56.74	582.40	0.63	-0.28	0.56	
5510.00	89.87	3.59	5102.00	611.59	58.79	614.39	0.99	-0.81	-0.56	
5542.00	89.60	3.06	5102.15	643.54	60.65	646.38	1.86	-0.84	-1.66	
5574.00	89.16	4.20	5102.50	675.47	62.67	678.36	3.82	-1.37	3.56	
5605.00	88.90	4.47	5103.02	706.38	65.01	709.36	1.21	-0.84	0.87	
5637.00	88.81	3.94	5103.66	738.28	67.36	741.35	1.68	-0.28	-1.66	
5669.00	89.34	3.94	5104.18	770.20	69.56	773.34	1.66	1.66	0.00	
5701.00	88.99	3.77	5104.65	802.13	71.71	805.33	1.22	-1.09	-0.53	
5732.00	89.87	5.08	5104.95	833.03	74.10	836.32	5.09	2.84	4.23	
5764.00	90.04	5.08	5104.98	864.91	76.93	868.32	0.53	0.53	0.00	
5796.00	90.22	4.64	5104.91	896.79	79.65	900.32	1.49	0.56	-1.37	
5828.00	90.57	5.26	5104.69	928.67	82.41	932.32	2.22	1.09	1.94	
5860.00	90.57	5.61	5104.37	960.53	85.44	964.32	1.09	0.00	1.09	
5892.00	90.48	5.17	5104.07	992.38	88.44	996.32	1.40	-0.28	-1.37	
5923.00	90.57	5.61	5103.79	1023.24	91.36	1027.31	1.45	0.29	1.42	
5987.00	90.84	4.56	5103.00	1086.99	97.03	1091.31	1.69	0.42	-1.64	
6019.00	90.84	4.29	5102.53	1118.89	99.50	1123.30	0.84	0.00	-0.84	
6051.00	90.66	4.03	5102.12	1150.80	101.82	1155.30	0.99	-0.56	-0.81	
6082.00	90.66	4.03	5101.76	1181.72	104.00	1186.29	0.00	0.00	0.00	
6114.00	90.66	3.59	5101.39	1213.65	106.12	1218.28	1.37	0.00	-1.37	
6146.00	89.25	3.68	5101.41	1245.58	108.15	1250.27	4.42	-4.41	0.28	
6178.00	89.16	4.38	5101.86	1277.50	110.40	1282.26	2.21	-0.28	2.19	
6209.00	89.16	4.47	5102.31	1308.41	112.79	1313.26	0.29	0.00	0.29	
6241.00	89.60	3.94	5102.66	1340.32	115.14	1345.25	2.15	1.37	-1.66	
6273.00	90.04	4.12	5102.76	1372.24	117.39	1377.24	1.49	1.37	0.56	
6305.00	90.04	4.38	5102.74	1404.15	119.76	1409.24	0.81	0.00	0.81	
6369.00	89.34	5.70	5103.08	1467.90	125.38	1473.24	2.33	-1.09	2.06	
6400.00	89.25	5.17	5103.47	1498.76	128.32	1504.24	1.73	-0.29	-1.71	
6464.00	88.81	5.00	5104.55	1562.50	133.99	1568.23	0.74	-0.69	-0.27	
6496.00	88.99	5.00	5105.16	1594.37	136.78	1600.22	0.56	0.56	0.00	
6527.00	88.64	4.20	5105.80	1625.26	139.26	1631.21	2.82	-1.13	-2.58	
6559.00	88.46	3.68	5106.61	1657.18	141.46	1663.20	1.72	-0.56	-1.62	
6591.00	88.29	2.97	5107.52	1689.11	143.31	1695.17	2.28	-0.53	-2.22	
6623.00	88.20	3.06	5108.50	1721.05	145.00	1727.13	0.40	-0.28	0.28	
6655.00	87.85	4.20	5109.60	1752.97	147.02	1759.10	3.72	-1.09	3.56	
6687.00	87.93	4.29	5110.78	1784.86	149.39	1791.08	0.38	0.25	0.28	
6718.00	88.11	3.77	5111.85	1815.76	151.57	1822.05	1.77	0.58	-1.68	
6750.00	88.37	3.85	5112.84	1847.68	153.69	1854.03	0.85	0.81	0.25	
6782.00	89.60	4.12	5113.40	1879.59	155.92	1886.02	3.94	3.84	0.84	
6846.00	91.45	4.64	5112.82	1943.40	160.80	1950.01	3.00	2.89	0.81	
6909.00	90.13	4.03	5111.95	2006.21	165.56	2013.00	2.31	-2.10	-0.97	
6973.00	90.22	4.47	5111.75	2070.04	170.31	2076.99	0.70	0.14	0.69	
7013.00	90.40	3.94	5111.54	2109.93	173.24	2116.99	1.40	0.45	-1.32	
7064.00	90.40	3.94	5111.18	2160.81	176.74	2167.97	0.00	0.00	0.00	