

Pathfinder Energy

Planning Report

Company: Marbob Energy			Date: 7/31/2006			Time: 14:00:50			Page: 1		
Field: Eddy County, NM NAD-27			Co-ordinate(NE) Reference: Well: Scared Hawk St Com #1, Grid North								
Site: Scared Hawk St Com #1			Vertical (TVD) Reference: SITE 0.0								
Well: Scared Hawk St Com #1			Section (VS) Reference: Well (0.00N,0.00E,267.49Azi)								
Wellpath: OH			Plan:			Plan #1 7-31-06					
Field: Eddy County, NM NAD-27											
Map System: US State Plane Coordinate System 1927						Map Zone: New Mexico, Eastern Zone					
Geo Datum: NAD27 (Clarke 1866)						Coordinate System: Well Centre					
Sys Datum: Mean Sea Level						Geomagnetic Model: igrf2005					
Site: Scared Hawk St Com #1											
Site Position:			Northing:		ft		Latitude:				
From: Lease Line			Easting:		ft		Longitude:				
Position Uncertainty: 0.00 ft							North Reference:		Grid		
Ground Level: 0.00 ft							Grid Convergence:		0.13 deg		
Well: Scared Hawk St Com #1 Slot Name:											
Well Position: +N/-S 0.00 ft			Northing: 424008.31 ft			Latitude: 32 9 55.688 N					
+E/-W 0.00 ft			Easting: 577339.86 ft			Longitude: 104 5 0.226 W					
Position Uncertainty: 0.00 ft											
Wellpath: OH											
Current Datum: SITE			Height 0.00 ft		Drilled From: Surface						
Magnetic Data: 7/31/2006					Tie-on Depth: 0.00 ft						
Field Strength: 49052 nT					Above System Datum: Mean Sea Level						
Vertical Section: Depth From (TVD)			+N/-S		Declination: 8.38 deg						
ft			ft		Mag Dip Angle: 60.16 deg						
			ft		+E/-W		Direction				
			ft		ft		deg				
0.00			0.00		0.00		267.49				
Plan: Plan #1 7-31-06											
Principal: Yes						Date Composed: 7/31/2006					
						Version: 1					
						Tied-to: From Surface					
Plan Section Information											
MD	Incl	Azim	TVD	+N/-S	+E/-W	DLS	Build	Turn	TFO	Target	
ft	deg	deg	ft	ft	ft	deg/100ft	deg/100ft	deg/100ft	deg		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4322.54	0.00	0.00	4322.54	0.00	0.00	0.00	0.00	0.00	0.00		
5072.54	90.00	267.49	4800.00	-20.91	-477.01	12.00	12.00	0.00	267.49		
6882.19	90.00	267.49	4800.00	-100.16	-2284.92	0.00	0.00	0.00	0.00	PBHL	
Survey											
MD	Incl	Azim	TVD	+N/-S	+E/-W	VS	DLS	Build	Turn	Tool/Comment	
ft	deg	deg	ft	ft	ft	ft	deg/100ft	deg/100ft	deg/100ft		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00		
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00		
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00		
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00		
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00		
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00		
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00		
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00		
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00		
1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00	0.00	0.00		
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00	0.00		
1200.00	0.00	0.00	1200.00								

Pathfinder Energy

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Company: Marbob Energy
 Field: Eddy County, NM NAD-27
 Site: Scared Hawk St Com #1
 Well: Scared Hawk St Com #1
 Wellpath: OH

Date: 7/31/2006 Time: 14:00:50 Page: 2
 Co-ordinate(N/E) Reference: Well: Scared Hawk St Com #1, Grid North
 Vertical (TVD) Reference: SITE 0.0
 Section (VS) Reference: Well (0.00N,0.00E,267.49Azi)
 Plan: Plan #1 7-31-06

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
1700.00	0.00	0.00	1700.00	0.00	0.00	0.00	0.00	0.00	0.00	
1800.00	0.00	0.00	1800.00	0.00	0.00	0.00	0.00	0.00	0.00	
1900.00	0.00	0.00	1900.00	0.00	0.00	0.00	0.00	0.00	0.00	
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2100.00	0.00	0.00	2100.00	0.00	0.00	0.00	0.00	0.00	0.00	
2200.00	0.00	0.00	2200.00	0.00	0.00	0.00	0.00	0.00	0.00	
2300.00	0.00	0.00	2300.00	0.00	0.00	0.00	0.00	0.00	0.00	
2400.00	0.00	0.00	2400.00	0.00	0.00	0.00	0.00	0.00	0.00	
2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	0.00	0.00	
2600.00	0.00	0.00	2600.00	0.00	0.00	0.00	0.00	0.00	0.00	
2700.00	0.00	0.00	2700.00	0.00	0.00	0.00	0.00	0.00	0.00	
2800.00	0.00	0.00	2800.00	0.00	0.00	0.00	0.00	0.00	0.00	
2900.00	0.00	0.00	2900.00	0.00	0.00	0.00	0.00	0.00	0.00	
3000.00	0.00	0.00	3000.00	0.00	0.00	0.00	0.00	0.00	0.00	
3100.00	0.00	0.00	3100.00	0.00	0.00	0.00	0.00	0.00	0.00	
3200.00	0.00	0.00	3200.00	0.00	0.00	0.00	0.00	0.00	0.00	
3300.00	0.00	0.00	3300.00	0.00	0.00	0.00	0.00	0.00	0.00	
3400.00	0.00	0.00	3400.00	0.00	0.00	0.00	0.00	0.00	0.00	
3500.00	0.00	0.00	3500.00	0.00	0.00	0.00	0.00	0.00	0.00	
3600.00	0.00	0.00	3600.00	0.00	0.00	0.00	0.00	0.00	0.00	
3700.00	0.00	0.00	3700.00	0.00	0.00	0.00	0.00	0.00	0.00	
3800.00	0.00	0.00	3800.00	0.00	0.00	0.00	0.00	0.00	0.00	
3900.00	0.00	0.00	3900.00	0.00	0.00	0.00	0.00	0.00	0.00	
4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	0.00	0.00	
4100.00	0.00	0.00	4100.00	0.00	0.00	0.00	0.00	0.00	0.00	
4200.00	0.00	0.00	4200.00	0.00	0.00	0.00	0.00	0.00	0.00	
4300.00	0.00	0.00	4300.00	0.00	0.00	0.00	0.00	0.00	0.00	
4322.54	0.00	0.00	4322.54	0.00	0.00	0.00	0.00	0.00	0.00	KOP @ 4323' MD / TVD' Bu
4325.00	0.30	267.49	4325.00	0.00	-0.01	0.01	12.00	12.00	0.00	
4350.00	3.30	267.49	4349.98	-0.03	-0.79	0.79	12.00	12.00	0.00	
4375.00	6.30	267.49	4374.89	-0.13	-2.88	2.88	12.00	12.00	0.00	
4400.00	9.30	267.49	4399.66	-0.27	-6.26	6.27	12.00	12.00	0.00	
4425.00	12.30	267.49	4424.22	-0.48	-10.94	10.95	12.00	12.00	0.00	
4450.00	15.30	267.49	4448.49	-0.74	-16.90	16.91	12.00	12.00	0.00	
4475.00	18.30	267.49	4472.42	-1.06	-24.11	24.13	12.00	12.00	0.00	
4500.00	21.30	267.49	4495.94	-1.43	-32.57	32.60	12.00	12.00	0.00	
4525.00	24.30	267.49	4518.99	-1.85	-42.24	42.29	12.00	12.00	0.00	
4550.00	27.30	267.49	4541.49	-2.33	-53.11	53.16	12.00	12.00	0.00	
4575.00	30.30	267.49	4563.40	-2.86	-65.14	65.20	12.00	12.00	0.00	
4600.00	33.30	267.49	4584.65	-3.43	-78.30	78.37	12.00	12.00	0.00	
4625.00	36.30	267.49	4605.17	-4.06	-92.55	92.64	12.00	12.00	0.00	
4650.00	39.30	267.49	4624.93	-4.73	-107.85	107.96	12.00	12.00	0.00	
4675.00	42.30	267.49	4643.85	-5.44	-124.17	124.29	12.00	12.00	0.00	
4700.00	45.30	267.49	4661.89	-6.20	-141.45	141.59	12.00	12.00	0.00	
4725.00	48.30	267.49	4679.01	-7.00	-159.66	159.81	12.00	12.00	0.00	
4750.00	51.30	267.49	4695.14	-7.83	-178.73	178.90	12.00	12.00	0.00	
4775.00	54.30	267.49	4710.26	-8.71	-198.62	198.81	12.00	12.00	0.00	
4800.00	57.30	267.49	4724.31	-9.61	-219.27	219.49	12.00	12.00	0.00	
4825.00	60.30	267.49	4737.26	-10.55	-240.63	240.87	12.00	12.00	0.00	
4850.00	63.30	267.49	4749.08	-11.51	-262.64	262.90	12.00	12.00	0.00	
4875.00	66.30	267.49	4759.72	-12.50	-285.24	285.51	12.00	12.00	0.00	
4900.00	69.30	267.49	4769.17	-13.52	-308.36	308.66	12.00	12.00	0.00	
4925.00	72.30	267.49	4777.39	-14.55	-331.94	332.26	12.00	12.00	0.00	

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 Well: Scared Hawk St Com #1
 Wellpath: OH

Date: 7/31/2006 Time: 14:00:50 Page: 3
 Co-ordinate(NE) Reference: Well: Scared Hawk St Com #1, Grid North
 Vertical (TVD) Reference: SITE 0.0
 Section (VS) Reference: Well (0.00N,0.00E,267.49Azi)
 Plan: Plan #1 7-31-06

Survey

MD ft	Incl deg	Azlm deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
4950.00	75.30	267.49	4784.37	-15.60	-355.92	356.27	12.00	12.00	0.00	
4975.00	78.30	267.49	4790.08	-16.67	-380.24	380.60	12.00	12.00	0.00	
5000.00	81.30	267.49	4794.51	-17.75	-404.81	405.20	12.00	12.00	0.00	
5025.00	84.30	267.49	4797.64	-18.83	-429.59	430.00	12.00	12.00	0.00	
5050.00	87.30	267.49	4799.47	-19.92	-454.50	454.93	12.00	12.00	0.00	
5072.54	90.00	267.49	4800.00	-20.91	-477.01	477.46	12.00	12.00	0.00	EOC @ 5073' MD / 4800 TVD
5100.00	90.00	267.49	4800.00	-22.11	-504.44	504.92	0.00	0.00	0.00	
5200.00	90.00	267.49	4800.00	-26.49	-604.34	604.92	0.00	0.00	0.00	
5300.00	90.00	267.49	4800.00	-30.87	-704.25	704.92	0.00	0.00	0.00	
5400.00	90.00	267.49	4800.00	-35.25	-804.15	804.92	0.00	0.00	0.00	
5500.00	90.00	267.49	4800.00	-39.63	-904.06	904.92	0.00	0.00	0.00	
5600.00	90.00	267.49	4800.00	-44.01	-1003.96	1004.92	0.00	0.00	0.00	
5700.00	90.00	267.49	4800.00	-48.39	-1103.86	1104.92	0.00	0.00	0.00	
5800.00	90.00	267.49	4800.00	-52.77	-1203.77	1204.92	0.00	0.00	0.00	
5900.00	90.00	267.49	4800.00	-57.15	-1303.67	1304.92	0.00	0.00	0.00	
6000.00	90.00	267.49	4800.00	-61.53	-1403.58	1404.92	0.00	0.00	0.00	
6100.00	90.00	267.49	4800.00	-65.91	-1503.48	1504.92	0.00	0.00	0.00	
6200.00	90.00	267.49	4800.00	-70.29	-1603.39	1604.92	0.00	0.00	0.00	
6300.00	90.00	267.49	4800.00	-74.67	-1703.29	1704.92	0.00	0.00	0.00	
6400.00	90.00	267.49	4800.00	-79.04	-1803.19	1804.92	0.00	0.00	0.00	
6500.00	90.00	267.49	4800.00	-83.42	-1903.10	1904.92	0.00	0.00	0.00	
6600.00	90.00	267.49	4800.00	-87.80	-2003.00	2004.92	0.00	0.00	0.00	
6700.00	90.00	267.49	4800.00	-92.18	-2102.91	2104.92	0.00	0.00	0.00	
6800.00	90.00	267.49	4800.00	-96.56	-2202.81	2204.92	0.00	0.00	0.00	
6882.19	90.00	267.49	4800.00	-100.16	-2284.92	2287.12	0.00	0.00	0.00	PBHL

Targets

Name	Description Dip. Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<--- Latitude --->		<--- Longitude --->	
PBHL		4800.00	-100.00	-2285.00	423908.31	575054.86	32	9 54.750 N	104	5 26.812 W

Annotation

MD ft	TVD ft	
4322.54	4322.54	KOP @ 4323' MD / TVD Build 12"/100'
5072.54	4800.00	EOC @ 5073' MD / 4800 TVD