

Pathfinder Energy

Planning Report

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(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
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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
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' Bui
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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Company: Marbob Energy	Date: 7/31/2006	Time: 14:00:50	Page: 3
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		

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
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