



Company: Marbob Energy				Date: 10/7/2004				Time: 14:26:26				Page: 1	
Field: Sly Hawk State #1				Co-ordinate(NE) Reference: Well: Sly Hawk State #1, True North									
Site: Section 3, T-25S, R-28E				Vertical (TVD) Reference: SITE 0.0									
Well: Sly Hawk State #1				Section (VS) Reference: Well (0.00N,0.00E,8.31Azi)									
Wellpath: Original Hole				Plan: Plan #1 100704									
Field: Sly Hawk State #1 Eddy County, New Mexico													
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: igrf2000							
Site: Section 3, T-25S, R-28E Eddy County, New Mexico													
Site Position:		Northing:		ft		Latitude:							
From: Lease Line		Easting:		ft		Longitude:							
Position Uncertainty:		0.00 ft				North Reference:		True					
Ground Level:		0.00 ft				Grid Convergence:		0.00 deg					
Well: Sly Hawk State #1						Slot Name:							
Well Position:		+N/-S 0.00 ft		Northing: 0.00 ft		Latitude:		30 59 24.512 N					
		+E/-W 0.00 ft		Easting : 0.00 ft		Longitude:		105 55 44.137 W					
Position Uncertainty:		0.00 ft											
Wellpath: Original Hole						Drilled From: Surface							
Current Datum: SITE				Height 0.00 ft		Tie-on Depth:		0.00 ft					
Magnetic Data: 10/7/2004						Above System Datum:		Mean Sea Level					
Field Strength: 0 nT						Declination:		0.00 deg					
Vertical Section: Depth From (TVD)				+N/-S		Mag Dip Angle:		0.00 deg					
		ft		ft		+E/-W		Direction					
						ft		deg					
0.00				0.00		0.00		8.31					
Plan: Plan #1 100704						Date Composed: 10/7/2004							
						Version: 1							
Principal: No						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				
4412.50	0.00	0.00	4412.50	0.00	0.00	0.00	0.00	0.00	0.00				
5156.94	89.32	8.31	4890.00	466.91	68.20	12.00	12.00	0.00	8.31				
6969.17	89.32	8.31	4911.51	2260.00	330.00	0.00	0.00	0.00	0.00	TD / 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	0.00	0.00	0.00	0.00	0.00	0.00				
1300.00	0.00	0.00	1300.00	0.00	0.00	0.00	0.00	0.00	0.00				
1400.00	0.00	0.00	1400.00	0.00	0.00	0.00	0.00	0.00	0.00				
1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	0.00	0.00				
1600.00	0.00	0.00	1600.00	0.00	0.00	0.00	0.00	0.00	0.00				

PathFinder

Planning Report

Company: Marbob Energy
 Field: Sly Hawk State #1
 Site: Section 3, T-25S, R-28E
 Well: Sly Hawk State #1
 Wellpath: Original Hole

Date: 10/7/2004
 Co-ordinate(NE) Reference:
 Vertical (TVD) Reference:
 Section (VS) Reference:
 Plan:

Time: 14:26:26
 Page: 2
 Well: Sly Hawk State #1, True North
 SITE 0.0
 Well (0.00N;0.00E;8.31Azi)
 Plan #1 100704

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	
4400.00	0.00	0.00	4400.00	0.00	0.00	0.00	0.00	0.00	0.00	
4412.50	0.00	0.00	4412.50	0.00	0.00	0.00	0.00	0.00	0.00	
4425.00	1.50	8.31	4425.00	0.16	0.02	0.16	12.00	12.00	0.00	
4450.00	4.50	8.31	4449.96	1.46	0.21	1.47	12.00	12.00	0.00	
4475.00	7.50	8.31	4474.82	4.04	0.59	4.08	12.00	12.00	0.00	
4500.00	10.50	8.31	4499.51	7.91	1.16	7.99	12.00	12.00	0.00	
4525.00	13.50	8.31	4523.96	13.05	1.91	13.19	12.00	12.00	0.00	
4550.00	16.50	8.31	4548.11	19.45	2.84	19.66	12.00	12.00	0.00	
4575.00	19.50	8.31	4571.88	27.10	3.96	27.38	12.00	12.00	0.00	
4600.00	22.50	8.31	4595.22	35.96	5.25	36.34	12.00	12.00	0.00	
4625.00	25.50	8.31	4618.06	46.02	6.72	46.51	12.00	12.00	0.00	
4650.00	28.50	8.31	4640.33	57.25	8.36	57.85	12.00	12.00	0.00	
4675.00	31.50	8.31	4661.98	69.61	10.17	70.35	12.00	12.00	0.00	
4700.00	34.50	8.31	4682.94	83.08	12.13	83.96	12.00	12.00	0.00	
4725.00	37.49	8.31	4703.17	97.62	14.26	98.65	12.00	12.00	0.00	
4750.00	40.49	8.31	4722.60	113.18	16.53	114.38	12.00	12.00	0.00	
4775.00	43.49	8.31	4741.17	129.73	18.95	131.11	12.00	12.00	0.00	
4800.00	46.49	8.31	4758.85	147.22	21.50	148.78	12.00	12.00	0.00	
4825.00	49.49	8.31	4775.58	165.60	24.19	167.36	12.00	12.00	0.00	
4850.00	52.49	8.31	4791.31	184.82	27.00	186.78	12.00	12.00	0.00	
4875.00	55.49	8.31	4806.01	204.83	29.92	207.00	12.00	12.00	0.00	
4900.00	58.49	8.31	4819.63	225.57	32.95	227.96	12.00	12.00	0.00	
4925.00	61.49	8.31	4832.13	246.99	36.08	249.61	12.00	12.00	0.00	
4950.00	64.49	8.31	4843.48	269.03	39.29	271.88	12.00	12.00	0.00	
4975.00	67.49	8.31	4853.65	291.62	42.59	294.71	12.00	12.00	0.00	
5000.00	70.49	8.31	4862.61	314.71	45.97	318.05	12.00	12.00	0.00	

PathFinder

Planning Report

Company: Marbob Energy Field: Sly Hawk State #1 Site: Section 3, T-25S, R-28E Well: Sly Hawk State #1 Wellpath: Original Hole	Date: 10/7/2004 Co-ordinate(NE) Reference: Well: Sly Hawk State #1, True North Vertical (TVD) Reference: SITE 0.0 Section (VS) Reference: Well (0.00N,0.00E,8.31Azi) Plan: Plan #1 100704	Time: 14:26:26 Page: 3
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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
5025.00	73.49	8.31	4870.34	338.23	49.40	341.82	12.00	12.00	0.00	
5050.00	76.49	8.31	4876.82	362.12	52.89	365.97	12.00	12.00	0.00	
5075.00	79.49	8.31	4882.02	386.32	56.43	390.42	12.00	12.00	0.00	
5100.00	82.49	8.31	4885.94	410.75	59.99	415.10	12.00	12.00	0.00	
5125.00	85.49	8.31	4888.55	435.35	63.59	439.96	12.00	12.00	0.00	
5150.00	88.49	8.31	4889.87	460.05	67.20	464.93	12.00	12.00	0.00	
5156.94	89.32	8.31	4890.00	466.91	68.20	471.87	12.00	12.00	0.00	
5200.00	89.32	8.31	4890.51	509.52	74.42	514.92	0.00	0.00	0.00	
5300.00	89.32	8.31	4891.70	608.46	88.87	614.92	0.00	0.00	0.00	
5400.00	89.32	8.31	4892.88	707.40	103.32	714.91	0.00	0.00	0.00	
5500.00	89.32	8.31	4894.07	806.35	117.78	814.90	0.00	0.00	0.00	
5600.00	89.32	8.31	4895.26	905.29	132.23	914.89	0.00	0.00	0.00	
5700.00	89.32	8.31	4896.45	1004.23	146.68	1014.89	0.00	0.00	0.00	
5800.00	89.32	8.31	4897.63	1103.17	161.13	1114.88	0.00	0.00	0.00	
5900.00	89.32	8.31	4898.82	1202.12	175.58	1214.87	0.00	0.00	0.00	
6000.00	89.32	8.31	4900.01	1301.06	190.04	1314.87	0.00	0.00	0.00	
6100.00	89.32	8.31	4901.19	1400.00	204.49	1414.86	0.00	0.00	0.00	
6200.00	89.32	8.31	4902.38	1498.95	218.94	1514.85	0.00	0.00	0.00	
6300.00	89.32	8.31	4903.57	1597.89	233.39	1614.85	0.00	0.00	0.00	
6400.00	89.32	8.31	4904.75	1696.83	247.84	1714.84	0.00	0.00	0.00	
6500.00	89.32	8.31	4905.94	1795.78	262.30	1814.83	0.00	0.00	0.00	
6600.00	89.32	8.31	4907.13	1894.72	276.75	1914.82	0.00	0.00	0.00	
6700.00	89.32	8.31	4908.31	1993.66	291.20	2014.82	0.00	0.00	0.00	
6800.00	89.32	8.31	4909.50	2092.61	305.65	2114.81	0.00	0.00	0.00	
6900.00	89.32	8.31	4910.69	2191.55	320.10	2214.80	0.00	0.00	0.00	
6969.17	89.32	8.31	4911.51	2260.00	330.00	2283.97	0.00	0.00	0.00	

Marbob Energy

Sly Hawk State #1

Eddy County, New Mexico

Plan #1 100704

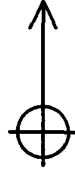
PATHFINDER
ENERGY SERVICES

SITE DETAILS

Section 3, T-25S, R-28E
Eddy County, New Mexico

Ground Level: 0.00
Positional Uncertainty: 0.00
Convergence: 0.00

T/M



Azimuths to True North
Magnetic North: 0.00°

Magnetic Field
Strength: 0nT
Dip Angle: 0.00°
Date: 10/7/2004
Model: igr2000

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	4412.50	0.00	0.00	4412.50	0.00	0.00	0.00	0.00	0.00	
3	5156.94	89.32	8.31	4890.00	466.91	68.20	12.00	8.31	471.87	
4	6969.17	89.32	8.31	4911.51	2260.00	330.00	0.00	0.00	2283.97	TD / PBHL

