

30-015-34959

[illegible]

Pathfinder Energy

Planning Report

Company: Marbob Energy Field: Petroleum JLE State #1H Site: Petroleum JLE State #1H Well: Petroleum JLE State #1H Wellpath: OH	Date: 11/09/2007 Time: 09:58:30 Page: 2 Co-ordinate(NE) Reference: Petroleum JLE State #1H; Grid Nort Vertical (TVD) Reference: SITE 0.0 Section (VS) Reference: Well (0.00N,0.00E,180.00Azi) Plan: Plan #1 11-09-07
---	---

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	
4500.00	0.00	0.00	4500.00	0.00	0.00	0.00	0.00	0.00	0.00	
4600.00	0.00	0.00	4600.00	0.00	0.00	0.00	0.00	0.00	0.00	
4700.00	0.00	0.00	4700.00	0.00	0.00	0.00	0.00	0.00	0.00	
4800.00	0.00	0.00	4800.00	0.00	0.00	0.00	0.00	0.00	0.00	
4900.00	0.00	0.00	4900.00	0.00	0.00	0.00	0.00	0.00	0.00	
5000.00	0.00	0.00	5000.00	0.00	0.00	0.00	0.00	0.00	0.00	
5100.00	0.00	0.00	5100.00	0.00	0.00	0.00	0.00	0.00	0.00	
5200.00	0.00	0.00	5200.00	0.00	0.00	0.00	0.00	0.00	0.00	
5300.00	0.00	0.00	5300.00	0.00	0.00	0.00	0.00	0.00	0.00	
5400.00	0.00	0.00	5400.00	0.00	0.00	0.00	0.00	0.00	0.00	
5500.00	0.00	0.00	5500.00	0.00	0.00	0.00	0.00	0.00	0.00	
5600.00	0.00	0.00	5600.00	0.00	0.00	0.00	0.00	0.00	0.00	
5700.00	0.00	0.00	5700.00	0.00	0.00	0.00	0.00	0.00	0.00	
5800.00	0.00	0.00	5800.00	0.00	0.00	0.00	0.00	0.00	0.00	
5900.00	0.00	0.00	5900.00	0.00	0.00	0.00	0.00	0.00	0.00	
6000.00	0.00	0.00	6000.00	0.00	0.00	0.00	0.00	0.00	0.00	
6100.00	0.00	0.00	6100.00	0.00	0.00	0.00	0.00	0.00	0.00	
6200.00	0.00	0.00	6200.00	0.00	0.00	0.00	0.00	0.00	0.00	
6300.00	0.00	0.00	6300.00	0.00	0.00	0.00	0.00	0.00	0.00	
6400.00	0.00	0.00	6400.00	0.00	0.00	0.00	0.00	0.00	0.00	
6500.00	0.00	0.00	6500.00	0.00	0.00	0.00	0.00	0.00	0.00	
6600.00	0.00	0.00	6600.00	0.00	0.00	0.00	0.00	0.00	0.00	
6700.00	0.00	0.00	6700.00	0.00	0.00	0.00	0.00	0.00	0.00	
6772.50	0.00	0.00	6772.50	0.00	0.00	0.00	0.00	0.00	0.00	
6800.00	3.30	180.00	6799.98	-0.79	0.00	0.79	12.00	12.00	0.00	KOP @ 6772' MD, Begin Bui

Pathfinder Energy

Planning Report

Company: Marbob Energy Field: Petroleum JLE State #1H Site: Petroleum JLE State #1H Well: Petroleum JLE State #1H Wellpath: OH	Date: 11/09/2007 Time: 09:58:30 Page: 3 Co-ordinate(NE) Reference: Petroleum JLE State #1H, Grid North Vertical (TVD) Reference: SITE 0.0 Section (VS) Reference: Well (0.00N,0.00E,180.00Azi) Plan: Plan #1 11-09-07
---	--

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
6900.00	15.30	180.00	6898.49	-16.92	0.00	16.92	12.00	12.00	0.00	
7000.00	27.30	180.00	6991.49	-53.18	0.00	53.18	12.00	12.00	0.00	
7100.00	39.30	180.00	7074.92	-107.98	0.00	107.98	12.00	12.00	0.00	
7200.00	51.30	180.00	7145.14	-178.92	0.00	178.92	12.00	12.00	0.00	
7300.00	63.30	180.00	7199.07	-262.92	0.00	262.92	12.00	12.00	0.00	
7400.00	75.29	180.00	7234.36	-356.29	0.00	356.29	12.00	12.00	0.00	
7500.00	87.29	180.00	7249.47	-454.95	0.00	454.95	12.00	12.00	0.00	
7522.56	90.00	180.00	7250.00	-477.50	0.00	477.50	12.00	12.00	0.00	EOC @ 7523' MD, 7250' TVD
7600.00	90.00	180.00	7250.00	-554.94	0.00	554.94	0.00	0.00	0.00	
7700.00	90.00	180.00	7250.00	-654.94	0.00	654.94	0.00	0.00	0.00	
7800.00	90.00	180.00	7250.00	-754.94	0.00	754.94	0.00	0.00	0.00	
7900.00	90.00	180.00	7250.00	-854.94	0.00	854.94	0.00	0.00	0.00	
8000.00	90.00	180.00	7250.00	-954.94	0.00	954.94	0.00	0.00	0.00	
8100.00	90.00	180.00	7250.00	-1054.94	0.00	1054.94	0.00	0.00	0.00	
8200.00	90.00	180.00	7250.00	-1154.94	0.00	1154.94	0.00	0.00	0.00	
8300.00	90.00	180.00	7250.00	-1254.94	0.00	1254.94	0.00	0.00	0.00	
8400.00	90.00	180.00	7250.00	-1354.94	0.00	1354.94	0.00	0.00	0.00	
8500.00	90.00	180.00	7250.00	-1454.94	0.00	1454.94	0.00	0.00	0.00	
8600.00	90.00	180.00	7250.00	-1554.94	0.00	1554.94	0.00	0.00	0.00	
8700.00	90.00	180.00	7250.00	-1654.94	0.00	1654.94	0.00	0.00	0.00	
8800.00	90.00	180.00	7250.00	-1754.94	0.00	1754.94	0.00	0.00	0.00	
8900.00	90.00	180.00	7250.00	-1854.94	0.00	1854.94	0.00	0.00	0.00	
9000.00	90.00	180.00	7250.00	-1954.94	0.00	1954.94	0.00	0.00	0.00	
9025.06	90.00	180.00	7250.00	-1980.00	0.00	1980.00	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 ---->		
							Deg	Min	Sec
PBHL		7250.00	-1980.00	0.00	-1980.00	0.00	30	59	4 921 N 105 55 43 811 W

Annotation

MD ft	TVD ft	
6772.50	6772.50	KOP @ 6772' MD, Begin Build @ 12°/100'
7522.56	7250.00	EOC @ 7523' MD, 7250' TVD, Hold to TD

Marbob Energy

COMPANY DETAILS

Marbob Energy
2208 W Main St
Artesia, New Mexico

Calculation Method: Minimum Curvature
Error System: Systematic Ellipse
Scan Method: Closest Approach 3D
Error Surface: Elliptical Conic
Warning Method: Error Ratio

PATHFINDER

Field: Petroleum JLE State #1H
Site: Petroleum JLE State #1H
Well: Petroleum JLE State #1H
Wellpath: OH
Plan: Plan #1 11-09-07

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	6772 50	0 00	0 00	6772 50	0 00	0 00	0 00	0 00	0 00	
3	7522 56	90 00	180 00	7250 00	-477 50	0 00	12 00	180 00	477 50	
4	9025 06	90 00	180 00	7250 00	-1980 00	0 00	0 00	0 00	1980 00	PBHL

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Petroleum JLE State #1H	0 00	0 00	0 00	0 00	30°59'24 S 12N	105°55'44 S 137W	N/A

ANNOTATIONS

No	TVD	MD	Annotation
1	6772 50	6772 50	KOP @ 6772' MD, Begin Build @ 12°/100'
2	7250 00	7522 56	EOC @ 7523' MD, 7250' TVD, Hold to TD

WELLPATH DETAILS

OH

Rig	Ref Datum	SITE	0 000
V Section	Angle	Origin	Starting
		+N/-S	From TVD
	180 00°	0 00	0 00
			7250 00

