

Month - Year
FEB 15 2007
OCD - ARTESIA, NM

Pathfinder Energy Planning Report

Company: Marbob Energy
Field: Amigo Fee
Site: Amigo Fee #1
Well: Amigo Fee #1
Wellpath: Original

Date: 1/22/2007
Co-ordinate(NE) Reference: Site: Amigo Fee #1, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,202.75Azi)
Plan: Plan #2 1/22/07

Page: 1

Field: Amigo Fee

30 - 015 - 35333

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: Site Centre
Geomagnetic Model: igf2005

Site: Amigo Fee #1

Eddy County, NM

Site Position: Northing: 513392.50 ft Latitude: 32 24 40.806 N
From: Map Easting: 547742.90 ft Longitude: 104 10 43.056 W
Position Uncertainty: 0.00 ft North Reference: Grid
Ground Level: 3112.00 ft Grid Convergence: 0.08 deg

Well: Amigo Fee #1

Slot Name:

Well Position: +N/-S 0.00 ft Northing: 513392.50 ft Latitude: 32 24 40.806 N
+E/-W 0.00 ft Easting: 547742.90 ft Longitude: 104 10 43.056 W
Position Uncertainty: 0.00 ft

Wellpath: Original

Drilled From: Surface
Tie-on Depth: 0.00 ft
Above System Datum: Mean Sea Level
Declination: 8.39 deg
Mag Dip Angle: 60.37 deg
+E/-W Direction
ft deg

Current Datum: SITE Height 0.00 ft
Magnetic Data: 1/3/2007
Field Strength: 49149 nT
Vertical Section: Depth From (TVD) +N/-S
ft ft
0.00 0.00 0.00 202.75

Plan: Plan #2 1/22/07

Date Composed: 1/3/2007
Version: 1
Tied-to: From Surface

Principal: No

Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	202.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	202.75	600.00	0.00	0.00	0.00	0.00	0.00	202.75	
973.25	11.20	202.75	970.88	-33.53	-14.06	3.00	3.00	0.00	202.75	
3449.51	11.20	202.75	3400.00	-477.00	-200.00	0.00	0.00	0.00	0.00	Amigo Fee #1 Target @ 3,4
5089.04	3.00	202.75	5025.57	-663.70	-278.28	0.50	-0.50	0.00	180.00	

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
0.00	0.00	202.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.00	202.75	100.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	202.75	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	202.75	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
400.00	0.00	202.75	400.00	0.00	0.00	0.00	0.00	0.00	0.00	
500.00	0.00	202.75	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	202.75	600.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP @ 600' MD/TVD Build
700.00	3.00	202.75	699.95	-2.41	-1.01	2.62	3.00	3.00	0.00	
800.00	6.00	202.75	799.63	-9.65	-4.05	10.46	3.00	3.00	0.00	
900.00	9.00	202.75	898.77	-21.68	-9.09	23.51	3.00	3.00	0.00	
973.25	11.20	202.75	970.88	-33.53	-14.06	36.36	3.00	3.00	0.00	End of Build @ 11.2° INC
1000.00	11.20	202.75	997.12	-38.32	-16.07	41.55	0.00	0.00	0.00	
1100.00	11.20	202.75	1095.22	-56.23	-23.58	60.97	0.00	0.00	0.00	
1200.00	11.20	202.75	1193.31	-74.14	-31.08	80.39	0.00	0.00	0.00	
1300.00	11.20	202.75	1291.41	-92.05	-38.59	99.81	0.00	0.00	0.00	
1400.00	11.20	202.75	1389.50	-109.96	-46.10	119.23	0.00	0.00	0.00	

Pathfinder Energy

Planning Report

Company: Marbob Energy
Field: Amigo Fee
Site: Amigo Fee #1
Well: Amigo Fee #1
Wellpath: Original

Date: 1/22/2007 **Time:** 14:52:41 **Page:** 2
Co-ordinate(NE) Reference: Site: Amigo Fee #1, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,202.75Azi)
Plan: Plan #2 1/22/07

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
1500.00	11.20	202.75	1487.60	-127.86	-53.61	138.65	0.00	0.00	0.00	
1600.00	11.20	202.75	1585.70	-145.77	-61.12	158.07	0.00	0.00	0.00	
1700.00	11.20	202.75	1683.79	-163.68	-68.63	177.49	0.00	0.00	0.00	
1800.00	11.20	202.75	1781.89	-181.59	-76.14	196.91	0.00	0.00	0.00	
1900.00	11.20	202.75	1879.99	-199.50	-83.65	216.33	0.00	0.00	0.00	
2000.00	11.20	202.75	1978.08	-217.41	-91.16	235.75	0.00	0.00	0.00	
2100.00	11.20	202.75	2076.18	-235.32	-98.67	255.16	0.00	0.00	0.00	
2200.00	11.20	202.75	2174.28	-253.23	-106.17	274.58	0.00	0.00	0.00	
2300.00	11.20	202.75	2272.37	-271.14	-113.68	294.00	0.00	0.00	0.00	
2400.00	11.20	202.75	2370.47	-289.04	-121.19	313.42	0.00	0.00	0.00	
2500.00	11.20	202.75	2468.56	-306.95	-128.70	332.84	0.00	0.00	0.00	
2600.00	11.20	202.75	2566.66	-324.86	-136.21	352.26	0.00	0.00	0.00	
2700.00	11.20	202.75	2664.76	-342.77	-143.72	371.68	0.00	0.00	0.00	
2800.00	11.20	202.75	2762.85	-360.68	-151.23	391.10	0.00	0.00	0.00	
2900.00	11.20	202.75	2860.95	-378.59	-158.74	410.52	0.00	0.00	0.00	
3000.00	11.20	202.75	2959.05	-396.50	-166.25	429.94	0.00	0.00	0.00	
3100.00	11.20	202.75	3057.14	-414.41	-173.76	449.36	0.00	0.00	0.00	
3200.00	11.20	202.75	3155.24	-432.32	-181.26	468.78	0.00	0.00	0.00	
3300.00	11.20	202.75	3253.33	-450.22	-188.77	488.20	0.00	0.00	0.00	
3400.00	11.20	202.75	3351.43	-468.13	-196.28	507.62	0.00	0.00	0.00	
3449.51	11.20	202.75	3400.00	-477.00	-200.00	517.23	0.00	0.00	0.00	Amigo Fee #1 Target @ 3,4
3500.00	10.95	202.75	3449.55	-485.94	-203.75	526.93	0.50	-0.50	0.00	
3600.00	10.45	202.75	3547.81	-503.06	-210.92	545.49	0.50	-0.50	0.00	
3700.00	9.95	202.75	3646.23	-519.38	-217.77	563.19	0.50	-0.50	0.00	
3800.00	9.45	202.75	3744.80	-534.91	-224.28	580.03	0.50	-0.50	0.00	
3900.00	8.95	202.75	3843.52	-549.65	-230.46	596.01	0.50	-0.50	0.00	
4000.00	8.45	202.75	3942.37	-563.59	-236.31	611.12	0.50	-0.50	0.00	
4100.00	7.95	202.75	4041.35	-576.73	-241.82	625.38	0.50	-0.50	0.00	
4200.00	7.45	202.75	4140.45	-589.08	-247.00	638.77	0.50	-0.50	0.00	
4300.00	6.95	202.75	4239.66	-600.63	-251.84	651.29	0.50	-0.50	0.00	
4400.00	6.45	202.75	4338.98	-611.39	-256.35	662.95	0.50	-0.50	0.00	
4500.00	5.95	202.75	4438.39	-621.34	-260.52	673.74	0.50	-0.50	0.00	
4600.00	5.45	202.75	4537.90	-630.49	-264.36	683.67	0.50	-0.50	0.00	
4700.00	4.95	202.75	4637.49	-638.84	-267.86	692.72	0.50	-0.50	0.00	
4800.00	4.45	202.75	4737.15	-646.39	-271.02	700.91	0.50	-0.50	0.00	
4900.00	3.95	202.75	4836.88	-653.14	-273.85	708.22	0.50	-0.50	0.00	
5000.00	3.45	202.75	4936.67	-659.08	-276.34	714.67	0.50	-0.50	0.00	
5089.04	3.00	202.75	5025.57	-663.70	-278.28	719.67	0.50	-0.50	0.00	TD @ 5089' MD/ 5025' TVD

Targets

Name	Description Dip. Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	← Latitude → Deg Min Sec			← Longitude → Deg Min Sec		
Amigo Fee #1 Target @ 3,400'		3400.00	-477.00	-200.00	512915.50	547542.90	32	24	36.088 N	104	10	45.398 W
-Plan hit target												

Annotation

MD ft	TVD ft	
600.00	600.00	KOP @ 600' MD/TVD Build to 14.25° Inc
973.25	970.88	End of Build @ 11.2° INC @ 973' MD
3449.51	3400.00	Begin Natural Drop to TD @ 3450' MD
5089.04	5025.57	TD @ 5089' MD/ 5025' TVD

Marbob Energy

PATHFINDER

Field: Amigo Fee
Site: Amigo Fee #1
Well: Amigo Fee #1
Wellpath: Original
Plan: Plan #1 1/3/07

SECTION DETAILS

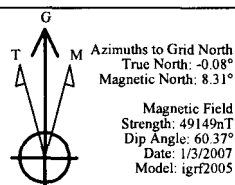
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	202.75	0.00	0.00	0.00	0.00	0.00	0.00	
2	600.00	0.00	202.75	600.00	0.00	0.00	0.00	202.75	0.00	
3	973.25	11.20	202.75	970.88	-33.53	-14.06	3.00	202.75	36.36	
4	3449.51	11.20	202.75	3400.00	-477.00	-200.00	0.00	0.00	517.23	Amigo Fee #1 Target @ 3,400'
5	5089.04	3.00	202.75	5025.57	-663.70	-278.28	0.50	180.00	719.67	

SITE DETAILS

Amigo Fee #1
Eddy County, NM
Site Centre Northing: 513392.50
Easting: 547742.90
Ground Level: 3112.00
Positional Uncertainty: 0.00
Convergence: 0.08

FIELD DETAILS

Amigo Fee
Geodetic System: US State Plane Coordinate System 1927
Ellipsoid: NAD27 (Clarke 1866)
Zone: New Mexico, Eastern Zone
Magnetic Model: igrf2005
System Datum: Mean Sea Level
Local North: Grid North



ANNOTATIONS

No.	TVD	MD	Annotation
1	600.00	600.00	KOP @ 600' MD/TVD Build to 14.25° Inc
2	970.88	973.25	End of Build @ 11.2° INC @ 973' MD
3	3400.00	3449.51	Begin Natural Drop to TD @ 3450' MD
4	5025.57	5089.04	TD @ 5089' MD/ 5025' TVD

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Amigo Fee #1	0.00	0.00	513392.50	547742.90	32°24'40.806N	104°10'43.056W	N/A

