

PathFinder Planning Report

(32-015-34558)

Company: Marbob Energy Field: Snakebite Site: Snakebite FEE #2 Well: SS Snakebite #2 Wellpath: SS Snakebite FEE #2				Date: 1/18/2006 Co-ordinate(NE) Reference: Site: Snakebite FEE #2, True North Vertical (TVD) Reference: System: Mean Sea Level Section (VS) Reference: Well (0.00N,0.00E,270.00Azi) Plan: Plan #3 1-18-06				Page: 1		
Field: Snakebite Eddy County, New Mexico				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: igrf2005		
Site: Snakebite FEE #2 T-22S & R-27E 330' FNL & 1550' FEL Section 9,				Site Position: From: Lease Line Position Uncertainty: 0.00 ft Ground Level: 0.00 ft				Northing: ft Easting: ft Latitude: Longitude: North Reference: True Grid Convergence: 0.00 deg		
Well: SS Snakebite #2				Slot Name:						
Well Position: +N/-S 0.00 ft +E/-W 0.00 ft Position Uncertainty: 0.00 ft				Northing: 0.00 ft Easting : 0.00 ft				Latitude: 30 59 24.512 N Longitude: 105 55 44.137 W		
Wellpath: SS Snakebite FEE #2				Drilled From: Surface Tie-on Depth: 0.00 ft Above System Datum: Mean Sea Level Declination: 0.00 deg Mag Dip Angle: 0.00 deg						
Current Datum: SITE Magnetic Data: 12/19/2005 Field Strength: 0 nT Vertical Section: Depth From (TVD) ft 0.00				Height 0.00 ft +N/-S ft 0.00				+E/-W ft 0.00		
Plan: Plan #3 1-18-06				Date Composed: 1/13/2006 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	270.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
781.85	0.00	270.00	781.85	0.00	0.00	0.00	0.00	0.00	0.00	
1181.85	10.00	270.00	1179.83	0.00	-34.82	2.50	2.50	0.00	270.00	
1356.71	10.00	270.00	1352.03	0.00	-65.18	0.00	0.00	0.00	0.00	
1756.71	0.00	270.00	1750.00	0.00	-100.00	2.50	-2.50	0.00	180.00	1750' Vertical Point
5506.71	0.00	270.00	5500.00	0.00	-100.00	0.00	0.00	0.00	270.00	PBHL SS Snakebite FEE #2
Section 1 : Start Hold										
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	TFO deg
0.00	0.00	270.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
781.85	0.00	270.00	781.85	0.00	0.00	0.00	0.00	0.00	0.00	270.00
Section 2 : Start Build 2.50										
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	TFO deg
1181.85	10.00	270.00	1179.83	0.00	-34.82	34.82	2.50	2.50	0.00	0.00
Section 3 : Start Hold										
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	TFO deg
1356.71	10.00	270.00	1352.03	0.00	-65.18	65.18	0.00	0.00	0.00	0.00

PathFinder

Planning Report

Company: Marbob Energy
 Field: Snakebite
 Site: Snakebite FEE #2
 Well: SS Snakebite #2
 Wellpath: SS Snakebite FEE #2

Date: 1/18/2006 Time: 11:25:39 Page: 2
 Co-ordinate(NE) Reference: Site: Snakebite FEE #2, True North
 Vertical (TVD) Reference: System: Mean Sea Level
 Section (VS) Reference: Well (0.00N,0.00E,270.00Azi)
 Plan: Plan #3 1-18-06

Section 4 : Start Drop -2.50

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	TFO deg
1756.71	0.00	270.00	1750.00	0.00	-100.00	100.00	2.50	-2.50	0.00	180.00

Section 5 : Start Hold

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	TFO deg
4006.71	0.00	270.00	4000.00	0.00	-100.00	100.00	0.00	0.00	0.00	270.00
4206.71	0.00	270.00	4200.00	0.00	-100.00	100.00	0.00	0.00	0.00	270.00
4406.71	0.00	270.00	4400.00	0.00	-100.00	100.00	0.00	0.00	0.00	270.00
4606.71	0.00	270.00	4600.00	0.00	-100.00	100.00	0.00	0.00	0.00	270.00
4806.71	0.00	270.00	4800.00	0.00	-100.00	100.00	0.00	0.00	0.00	270.00
5006.71	0.00	270.00	5000.00	0.00	-100.00	100.00	0.00	0.00	0.00	270.00
5206.71	0.00	270.00	5200.00	0.00	-100.00	100.00	0.00	0.00	0.00	270.00
5406.71	0.00	270.00	5400.00	0.00	-100.00	100.00	0.00	0.00	0.00	270.00
5506.71	0.00	270.00	5500.00	0.00	-100.00	100.00	0.00	0.00	0.00	270.00

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
4006.71	0.00	270.00	4000.00	0.00	-100.00	100.00	0.00	0.00	0.00	
4206.71	0.00	270.00	4200.00	0.00	-100.00	100.00	0.00	0.00	0.00	
4406.71	0.00	270.00	4400.00	0.00	-100.00	100.00	0.00	0.00	0.00	
4606.71	0.00	270.00	4600.00	0.00	-100.00	100.00	0.00	0.00	0.00	
4806.71	0.00	270.00	4800.00	0.00	-100.00	100.00	0.00	0.00	0.00	
5006.71	0.00	270.00	5000.00	0.00	-100.00	100.00	0.00	0.00	0.00	
5206.71	0.00	270.00	5200.00	0.00	-100.00	100.00	0.00	0.00	0.00	
5406.71	0.00	270.00	5400.00	0.00	-100.00	100.00	0.00	0.00	0.00	
5506.71	0.00	270.00	5500.00	0.00	-100.00	100.00	0.00	0.00	0.00	PBHL SS Snakebite FEE #2

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		
1750' Vertical Point			1750.00	0.00	-100.00	1.43	-99.99	30	59	24.512 N	105	55	45.286 W
-Plan hit target													
PBHL SS Snakebite FEE #2			5500.00	0.00	-100.00	1.43	-99.99	30	59	24.512 N	105	55	45.286 W
-Plan hit target													

Annotation

MD ft	TVD ft	
781.00	781.00	KOP @ 781' MD
1181.00	1178.99	End of 10°/100' Build @ 2.5° @ 1181'MD
1356.00	1351.33	End of Hold/Start of 2.5°/100' Drop
1756.00	1749.29	End of Drop/Start of Hold

Marbob Energy Corporation

SS Snakebite FEE #2

Section 9, T-22S & R-27E

Eddy County, New Mexico

Plan #3 1/18/06



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	270.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	781.85	0.00	270.00	781.85	0.00	0.00	0.00	0.00	0.00	
3	1181.85	10.00	270.00	1179.83	0.00	-34.82	2.50	270.00	34.82	
4	1356.71	10.00	270.00	1352.03	0.00	-65.18	0.00	0.00	65.18	
5	1756.71	0.00	270.00	1750.00	0.00	-100.00	2.50	180.00	100.00	1750' Vertical Point
6	5506.71	0.00	270.00	5500.00	0.00	-100.00	0.00	270.00	100.00	PBHL SS Snakebite FEE #2

SITE DETAILS

Snakebite FEE #2
T-22S & R-27E
330' FNL & 1550' FEL Section 9.

Water Depth: 0.00
Positional Uncertainty: 0.00
Convergence: 0.00

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 Cone
Warning Method: Error Ratio

FIELD DETAILS

Snakebite
Eddy County, New Mexico
Geodetic System: US State Plane Coordinate System 1927
Ellipsoid: NAD27 (Clarke 1866)
Zone: New Mexico, Eastern Zone
Magnetic Model: igr72005
System Datum: Mean Sea Level
Local North: True North

