

DISTRICT I

1625 N. FRENCH DR., HOBBBS, NM 88240

DISTRICT II

1301 W. GRAND AVENUE, ARTESIA, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

State of New Mexico

Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-34863	Pool Code 96855	Pool Name WILLOW LAKE; DELAWARE, SW
Property Code 35698	Property Name WESTERN HAWK STATE	Well Number 2
GRID No. 14049	Operator Name MARBOB ENERGY CORPORATION	Elevation 3020'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	3	25-S	28-E		1350	NORTH	990	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	3	25-S	28-E		1650	SOUTH	900	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
80.00			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	LOT 2 GEODETIC COORDINATES NAD 27 NME Y=422993.5 N X=578365.3 E LAT.=32°09'45.62" N LONG.=104°04'48.32" W	OPERATOR CERTIFICATION I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Nancy T. Bratcher</i> 5/16/06 Signature Date Nancy T. Bratcher Printed Name
	BOTTOM HOLE Y=420627.4 N X=578286.5 E	SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. MAY 03, 2006 Date Surveyed MR Signature & Seal of Professional Surveyor <i>Ronald J. Eidson</i> 5/11/06 06.11.0757
		Certificate No. GARY EIDSON 12641 RONALD J. EIDSON 3239

Pathfinder Energy

Planning Report - Geographic

Company: Marbob Energy		Date: 4/27/2006		Time: 15:01:32		Page: 1	
Field: Western Hawk State		Co-ordinate(NE) Reference: Well: Western Hawk State #2, Grid North					
Site: Western Hawk State #2		Vertical (TVD) Reference: System: Mean Sea Level					
Well: Western Hawk State #2		Section (VS) Reference: Well: (0.00N,0.00E,182.26Azi)					
Wellpath: Original Hole		Plan: Plan #1 4-27-06					

Field: Western Hawk State 990' FWL 1350' FNL Sec. 3; T25S; R28E Eddy County, New Mexico		Map Zone: New Mexico, Eastern Zone	
Map System: US State Plane Coordinate System 1927		Coordinate System: Well Centre	
Geo Datum: NAD27 (Clarke 1866)		Geomagnetic Model: igrf2005	
Sys Datum: Mean Sea Level			

Site: Western Hawk State #2 Eddy County, New Mexico 990' FWL 1350' FNL Sec. 3; T25S; R28E			
Site Position:	Northing:	ft	Latitude:
From: Lease Line	Easting:	ft	Longitude:
Position Uncertainty: 0.00 ft			North Reference: Grid
Ground Level: 3650.00 ft			Grid Convergence: 0.00 deg

Well: Western Hawk State #2		Slot Name:	
Horizontal			
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: Mean Sea Level		Tie-on Depth: 0.00 ft	
Magnetic Data: 4/27/2006		Above System Datum: Mean Sea Level	
Field Strength: 0 nT		Declination: 0.00 deg	
Vertical Section: Depth From (TVD)		Mag Dip Angle: 0.00 deg	
ft	+N/-S	ft	Direction
	ft	ft	deg
0.00	0.00	0.00	182.26

Plan: Plan #1 4-27-06		Date Composed: 4/27/2006	
Principal: Yes		Version: 1	
		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	182.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4722.54	0.00	182.26	4722.54	0.00	0.00	0.00	0.00	0.00	0.00		
5472.54	90.00	182.26	5200.00	-477.09	-18.83	12.00	12.00	0.00	182.26		
7276.85	90.00	182.26	5200.00	-2280.00	-90.00	0.00	0.00	0.00	0.00	PBHL Western Hawk #2	

Section 1 : Start Hold											
MD	Incl	Azim	TVD	+N/-S	+E/-W	VS	DLS	Build	Turn	TFO	
ft	deg	deg	ft	ft	ft	ft	deg/100ft	deg/100ft	deg/100ft	deg	
0.00	0.00	182.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4000.00	0.00	182.26	4000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	182.26
4200.00	0.00	182.26	4200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	182.26
4400.00	0.00	182.26	4400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	182.26
4600.00	0.00	182.26	4600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	182.26
4722.54	0.00	182.26	4722.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	182.26

Section 2 : Start Build 12.00											
MD	Incl	Azim	TVD	+N/-S	+E/-W	VS	DLS	Build	Turn	TFO	
ft	deg	deg	ft	ft	ft	ft	deg/100ft	deg/100ft	deg/100ft	deg	
4723.00	0.06	182.26	4723.00	0.00	0.00	0.00	12.00	12.00	0.00	0.00	0.00
4800.00	9.30	182.26	4799.66	-6.27	-0.25	6.27	12.00	12.00	0.00	0.00	0.00
5000.00	33.30	182.26	4984.64	-78.32	-3.09	78.38	12.00	12.00	0.00	0.00	0.00
5200.00	57.30	182.26	5124.31	-219.32	-8.66	219.49	12.00	12.00	0.00	0.00	0.00
5400.00	81.30	182.26	5194.50	-404.89	-15.98	405.21	12.00	12.00	0.00	0.00	0.00
5472.54	90.00	182.26	5200.00	-477.09	-18.83	477.46	12.00	12.00	0.00	0.00	0.00

Pathfinder Energy

Planning Report - Geographic

Company: Marbob Energy	Date: 4/27/2006	Time: 15:01:32	Page: 2
Field: Western Hawk State	Co-ordinate(N/E) Reference: Well: Western Hawk State #2, Grid North		
Site: Western Hawk State #2	Vertical (TVD) Reference: System: Mean Sea Level		
Well: Western Hawk State #2	Section (VS) Reference: Well (0.00N,0.00E,182.26Azi)		
Wellpath: Original Hole	Plan: Plan #1 4-27-06		

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
5473.00	90.00	182.26	5200.00	-477.56	-18.85	477.93	0.00	0.00	0.00	0.00
5600.00	90.00	182.26	5200.00	-604.46	-23.86	604.93	0.00	0.00	0.00	0.00
5800.00	90.00	182.26	5200.00	-804.30	-31.75	804.93	0.00	0.00	0.00	0.00
6000.00	90.00	182.26	5200.00	-1004.15	-39.64	1004.93	0.00	0.00	0.00	0.00
6200.00	90.00	182.26	5200.00	-1203.99	-47.53	1204.93	0.00	0.00	0.00	0.00
6400.00	90.00	182.26	5200.00	-1403.84	-55.41	1404.93	0.00	0.00	0.00	0.00
6600.00	90.00	182.26	5200.00	-1603.68	-63.30	1604.93	0.00	0.00	0.00	0.00
6800.00	90.00	182.26	5200.00	-1803.53	-71.19	1804.93	0.00	0.00	0.00	0.00
7000.00	90.00	182.26	5200.00	-2003.37	-79.08	2004.93	0.00	0.00	0.00	0.00
7200.00	90.00	182.26	5200.00	-2203.21	-86.97	2204.93	0.00	0.00	0.00	0.00
7276.85	90.00	182.26	5200.00	-2280.00	-90.00	2281.78	0.00	0.00	0.00	0.00

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	← Latitude → Deg Min Sec			← Longitude → Deg Min Sec		
4000.00	0.00	182.26	4000.00	0.00	0.00	0.00	0.00	30	59	24.512 N	105	55	44.137 W
4200.00	0.00	182.26	4200.00	0.00	0.00	0.00	0.00	30	59	24.512 N	105	55	44.137 W
4400.00	0.00	182.26	4400.00	0.00	0.00	0.00	0.00	30	59	24.512 N	105	55	44.137 W
4600.00	0.00	182.26	4600.00	0.00	0.00	0.00	0.00	30	59	24.512 N	105	55	44.137 W
4722.54	0.00	182.26	4722.54	0.00	0.00	0.00	0.00	30	59	24.512 N	105	55	44.137 W
4723.00	0.06	182.26	4723.00	0.00	0.00	0.00	0.00	30	59	24.512 N	105	55	44.137 W
4800.00	9.30	182.26	4799.66	-6.27	-0.25	-6.27	-0.25	30	59	24.450 N	105	55	44.139 W
5000.00	33.30	182.26	4984.64	-78.32	-3.09	-78.32	-3.09	30	59	23.736 N	105	55	44.160 W
5200.00	57.30	182.26	5124.31	-219.32	-8.66	-219.32	-8.66	30	59	22.340 N	105	55	44.201 W
5400.00	81.30	182.26	5194.50	-404.89	-15.98	-404.89	-15.98	30	59	20.503 N	105	55	44.254 W
5472.54	90.00	182.26	5200.00	-477.09	-18.83	-477.09	-18.83	30	59	19.788 N	105	55	44.275 W
5473.00	90.00	182.26	5200.00	-477.56	-18.85	-477.56	-18.85	30	59	19.784 N	105	55	44.275 W
5600.00	90.00	182.26	5200.00	-604.46	-23.86	-604.46	-23.86	30	59	18.527 N	105	55	44.312 W
5800.00	90.00	182.26	5200.00	-804.30	-31.75	-804.30	-31.75	30	59	16.549 N	105	55	44.369 W
6000.00	90.00	182.26	5200.00	-1004.15	-39.64	-1004.15	-39.64	30	59	14.571 N	105	55	44.427 W
6200.00	90.00	182.26	5200.00	-1203.99	-47.53	-1203.99	-47.53	30	59	12.592 N	105	55	44.485 W
6400.00	90.00	182.26	5200.00	-1403.84	-55.41	-1403.84	-55.41	30	59	10.614 N	105	55	44.542 W
6600.00	90.00	182.26	5200.00	-1603.68	-63.30	-1603.68	-63.30	30	59	8.635 N	105	55	44.600 W
6800.00	90.00	182.26	5200.00	-1803.53	-71.19	-1803.53	-71.19	30	59	6.657 N	105	55	44.658 W
7000.00	90.00	182.26	5200.00	-2003.37	-79.08	-2003.37	-79.08	30	59	4.678 N	105	55	44.716 W
7200.00	90.00	182.26	5200.00	-2203.21	-86.97	-2203.21	-86.97	30	59	2.700 N	105	55	44.773 W
7276.85	90.00	182.26	5200.00	-2280.00	-90.00	-2280.00	-90.00	30	59	1.939 N	105	55	44.795 W

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		
PBHL Western Hawk #2		5200.00	-2280.00	-90.00	-2280.00	-90.00	30	59	1.939 N	105	55	44.795 W

Annotation

MD ft	TVD ft	
4723.00	4723.00	KOP @ 4723' MD /TVD
4723.00	4723.00	Begin 12° / 100' Build
5473.00	5200.00	End Of Build @ 90° Inc 5473' MD 5200' TVD

Marbob Energy Corporation

Field: Western Hawk State

Site: Western Hawk State #2

Well: Western Hawk State #2

Wellpath: Original Hole

Plan: Plan #1 4-27-06



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	182.26	0.00	0.00	0.00	0.00	0.00	0.00	
2	4722.54	0.00	182.26	4722.54	0.00	0.00	0.00	0.00	0.00	
3	5472.54	90.00	182.26	5200.00	-477.09	-18.83	12.00	182.26	477.46	
4	7276.85	90.00	182.26	5200.00	-2280.00	-90.00	0.00	0.00	2281.78	PBHL Western Hawk #2

COMPANY DETAILS

Marbob Energy
2208 W. Main St.
Alamosa, New Mexico
Calculation Method: Minimum Curvature
Error System: Systematic Ellipse
Scan Method: Closest Approach 3D
Error Surface: Elliptical Contour
Warning Method: Error Ratio

G/T/M



Azimuths to Grid North
True North: 0.00°
Magnetic North: 0.00°

Magnetic Field
Strength: 0nT
Dip Angle: 0.00°
Date: 4/27/2006
Model: igr2005

FIELD DETAILS

Western Hawk State
990 FWL 1350 FNL Sec. 3, T25S, R28E
Eddy County, New Mexico
Geodetic System: US State Plane Coordinate System 1927
Ellipsoid: NAD27 (Clarke 1866)
Zone: New Mexico, Eastern Zone
Magnetic Model: igr2005
System Datum: Mean Sea Level
Local North: Grid North

