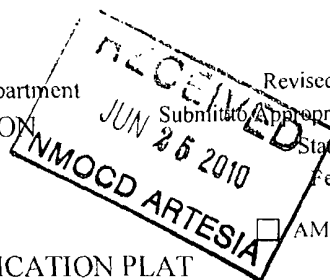


District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505



Form C-102
Revised October 12, 2005
Submitted to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-37467		² Pool Code 16800		³ Pool Name Delaware River; Bone Spring	
⁴ Property Code 37898		⁵ Property Name SRO State Unit Com			⁶ Well Number 6H
⁷ OGRID No. 14049		⁸ Operator Name Marbob Energy Corporation			⁹ Elevation 3005'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	5	26S	28E	D	660	North	330	West	Eddy

¹¹ 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
A	5	26S	28E	A	642	North	303	East	Eddy

¹² Dedicated Acres 160	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
--------------------------------------	-------------------------------	----------------------------------	-------------------------

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.

¹⁶ 	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained 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 a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: <u>Stormi Davis</u> Date: <u>6/23/10</u> Printed Name: <u>Stormi Davis</u> Title: <u>Production Assistant</u>	
	¹⁸ 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. Date of Survey: _____ Signature and Seal of Professional Surveyor: _____ REFER TO ORIGINAL PLAT Certificate Number: _____	



30-015-37467

Marbob

Eddy County
SRO State Unit Com
#6 H
OH

Survey: MWD #1

Pathfinder X & Y Survey Report

22 February, 2010

PATHFINDER



Pathfinder
Pathfinder X & Y Survey Report



Company: Marbob
Project: Eddy County
Site: SRO State Unit Com
Well: #6 H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #6 H
TVD Reference: WELL @ 3027.00ft (Original Well Elev)
MD Reference: WELL @ 3027.00ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Midland Database

Project		Eddy County				
Map System:	US State Plane 1927 (Exact solution)		System Datum:	Mean Sea Level		
Geo Datum:	NAD 1927 (NADCON CONUS)					
Map Zone:	New Mexico East 3001					
Site		SRO State Unit Com				
Site Position:		Northing:	391,812.000 ft	Latitude:	32° 4' 37.166 N	
From:	Map	Easting:	572,493.500 ft	Longitude:	104° 5' 57.422 W	
Position Uncertainty:	0.00 ft	Slot Radius:	"	Grid Convergence:	0.12 "	
Well		#6 H				
Well Position	+N/-S	0.00 ft	Northing:	391,798.000 ft	Latitude:	32° 4' 37.138 N
	+E/-W	0.00 ft	Easting:	567,171.300 ft	Longitude:	104° 6' 59.281 W
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft	Ground Level:	3,005.00 ft	
Wellbore		OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)	
	IGRF200510	12/22/2009	7.99	60.01	43,647	
Design		OH				
Audit Notes:						
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD)	+N/-S (ft)	+E/-W (ft)	Direction (°)		
	0.00	0.00	0.00	89.85		



Pathfinder

Pathfinder X & Y Survey Report



Company: Marbob
 Project: Eddy County
 Site: SRO State Unit Com
 Well: #6 H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #6 H
 TVD Reference: WELL @ 3027.00ft (Original Well Elev)
 MD Reference: WELL @ 3027.00ft (Original Well Elev)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: Midland Database

Survey Program		Date 02/22/2010									
From (ft)	To (ft)	Survey (Wellbore)		Tool Name	Description						
100.00	6 100.00	GYRO-Scientific (OH)		CT_GYRO_MS	Continuous Gyro Multishot						
6,113.00	10,977.00	MWD #1 (OH)		MWD	MWD - Standard						
Survey											
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)	
6,100.00	0.83	298.54	6,099.17	3,072.17	19.93	34.58	34.63	0.00	391,817.93	567,205.88	
6,113.00	3.96	90.43	6,112.16	3,085.16	19.97	34.94	34.99	36.22	391,817.97	567,206.24	
6,145.00	12.40	91.62	6,143.81	3,116.81	19.87	39.49	39.54	26.38	391,817.87	567,210.79	
6,176.00	18.03	91.30	6,173.71	3,146.71	19.66	47.62	47.67	18.16	391,817.66	567,218.92	
6,207.00	19.35	90.78	6,203.07	3,176.07	19.48	57.55	57.60	4.29	391,817.48	567,226.85	
6,239.00	21.10	89.91	6,233.10	3,206.10	19.42	68.61	68.66	5.55	391,817.42	567,239.91	
6,270.00	23.74	89.64	6,261.75	3,234.75	19.47	80.44	80.49	8.52	391,817.47	567,251.74	
6,301.00	25.59	89.29	6,289.92	3,262.92	19.59	93.37	93.42	5.99	391,817.59	567,264.67	
6,332.00	28.14	89.73	6,317.58	3,290.58	19.71	107.38	107.43	8.25	391,817.71	567,278.68	
6,364.00	31.13	90.35	6,345.39	3,318.39	19.69	123.20	123.25	9.39	391,817.69	567,294.50	
6,395.00	34.47	90.28	6,371.44	3,344.44	19.60	139.99	140.04	10.77	391,817.60	567,311.29	
6,426.00	37.64	89.98	6,396.50	3,369.50	19.56	156.23	156.28	10.24	391,817.56	567,329.53	
6,458.00	41.06	89.96	6,421.24	3,394.24	19.57	178.52	178.57	10.69	391,817.57	567,349.82	
6,489.00	44.67	89.77	6,443.96	3,416.96	19.62	199.60	199.65	11.65	391,817.62	567,370.90	
6,521.00	48.36	89.79	6,465.98	3,438.98	19.71	222.82	222.87	11.53	391,817.71	567,394.12	
6,553.00	51.88	89.90	6,486.49	3,459.49	19.78	247.37	247.42	11.00	391,817.78	567,418.67	
6,584.00	55.40	90.21	6,504.87	3,477.87	19.75	272.33	272.38	11.38	391,817.75	567,443.63	
6,616.00	59.09	90.38	6,522.18	3,495.18	19.61	299.24	299.29	11.54	391,817.61	567,470.54	
6,648.00	62.87	90.07	6,537.70	3,510.70	19.50	327.21	327.26	11.84	391,817.50	567,498.51	
6,679.00	66.74	89.75	6,550.89	3,523.89	19.55	355.26	355.31	12.52	391,817.55	567,526.56	
6,711.00	70.52	90.18	6,562.55	3,535.55	19.57	385.05	385.10	11.88	391,817.57	567,556.35	



Pathfinder Pathfinder X & Y Survey Report



Company: Marbob
Project: Eddy County
Site: SRO State Unit Corn
Well: #6 H
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well #6 H
WELL @ 3027.00ft (Original Well Elev)
WELL @ 3027.00ft (Original Well Elev)
Grid
Minimum Curvature
Midland Database

Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
6,742.00	74.74	90.50	6,571.80	3,544.80	19.39	414.63	414.68	13.65	391,817.39	567,585.93
6,773.00	79.05	91.16	6,578.83	3,551.83	18.95	444.82	444.86	14.06	391,816.95	567,616.12
6,805.00	81.69	91.42	6,584.18	3,557.18	18.24	476.35	476.40	8.29	391,816.24	567,647.55
6,837.00	82.57	91.72	6,588.57	3,561.57	17.37	508.04	508.08	2.90	391,815.37	567,679.34
6,875.00	83.89	90.54	6,593.04	3,566.04	16.63	545.77	545.81	4.64	391,814.63	567,717.07
6,907.00	85.79	90.11	6,595.64	3,568.64	16.45	577.66	577.70	9.16	391,814.45	567,746.96
6,938.00	88.29	89.92	6,596.97	3,569.97	16.44	608.63	608.67	4.88	391,814.44	567,779.93
6,970.00	89.59	89.43	6,597.54	3,570.54	16.62	640.62	640.66	4.64	391,814.62	567,811.92
7,001.00	90.22	89.68	6,597.56	3,570.56	16.86	671.62	671.66	1.89	391,814.86	567,842.92
7,063.00	89.34	89.66	6,597.80	3,570.80	17.22	733.62	733.66	1.42	391,815.22	567,904.92
7,126.00	89.25	89.51	6,598.58	3,571.58	17.68	796.61	796.65	0.28	391,815.68	567,967.91
7,189.00	89.43	89.69	6,599.30	3,572.30	18.12	859.61	859.65	0.40	391,816.12	568,030.91
7,252.00	89.43	89.57	6,599.93	3,572.93	18.52	922.60	922.65	0.19	391,816.52	568,093.90
7,316.00	89.08	89.57	6,600.76	3,573.76	19.00	986.59	986.64	0.55	391,817.00	568,157.89
7,376.00	89.78	89.19	6,601.36	3,574.36	19.65	1,046.59	1,046.63	1.33	391,817.65	568,217.89
7,441.00	90.40	89.20	6,601.26	3,574.26	20.56	1,111.58	1,111.63	0.95	391,818.56	568,282.88
7,504.00	89.25	89.53	6,601.45	3,574.45	21.26	1,174.57	1,174.63	1.90	391,819.26	568,345.87
7,566.00	89.34	89.63	6,602.21	3,575.21	21.72	1,236.57	1,236.62	0.22	391,819.72	568,407.87
7,629.00	89.78	89.72	6,602.69	3,575.69	22.07	1,299.56	1,299.62	0.71	391,820.07	568,470.86
7,692.00	90.48	89.31	6,602.55	3,575.55	22.61	1,362.56	1,362.62	1.29	391,820.61	568,533.86
7,755.00	89.96	89.93	6,602.31	3,575.31	23.03	1,425.56	1,425.62	1.28	391,821.03	568,596.86
7,818.00	89.08	90.36	6,602.84	3,575.84	22.87	1,488.56	1,488.61	1.55	391,820.87	568,659.86
7,882.00	88.90	90.00	6,603.97	3,576.97	22.57	1,552.55	1,552.60	0.63	391,820.67	568,723.85
7,945.00	89.43	89.53	6,604.88	3,577.88	22.92	1,615.54	1,615.59	1.12	391,820.92	568,786.84
8,008.00	89.87	88.75	6,605.27	3,578.27	23.87	1,678.53	1,678.59	1.42	391,821.87	568,849.83
8,071.00	88.99	89.87	6,605.90	3,578.90	24.63	1,741.52	1,741.58	2.26	391,822.63	568,912.82
8,134.00	88.90	90.33	6,607.06	3,580.06	24.52	1,804.51	1,804.57	0.74	391,822.52	568,975.81



Pathfinder

Pathfinder X & Y Survey Report



Company: Marbob
 Project: Eddy County
 Site: SRO State Unit Com
 Well: #6 H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #6 H
 TVD Reference: WELL @ 3027.00ft (Original Well Elev)
 MD Reference: WELL @ 3027.00ft (Original Well Elev)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: Midland Database

Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	EW (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
8,197.00	89.34	89.67	6,608.02	3,581.02	24.41	1,867.50	1,867.56	1.01	391,822.41	569,038.80
8,260.00	88.72	89.89	6,609.09	3,582.09	24.54	1,930.48	1,930.55	0.98	391,822.54	569,101.79
8,323.00	88.64	89.79	6,610.54	3,583.54	24.72	1,993.47	1,993.53	0.20	391,822.72	569,164.77
8,386.00	88.46	89.82	6,612.14	3,585.14	24.93	2,056.45	2,056.51	0.29	391,822.93	569,227.75
8,449.00	88.81	90.07	6,613.64	3,586.64	24.99	2,119.44	2,119.49	0.68	391,822.99	569,290.74
8,512.00	89.08	90.36	6,614.80	3,587.80	24.75	2,182.43	2,182.48	0.63	391,822.75	569,353.73
8,576.00	89.37	90.49	6,616.22	3,589.22	24.28	2,246.41	2,246.46	1.13	391,822.28	569,417.71
8,639.00	88.29	90.09	6,618.05	3,591.06	23.96	2,309.38	2,309.43	0.65	391,821.96	569,480.68
8,702.00	88.64	89.79	6,619.74	3,592.74	24.03	2,372.36	2,372.41	0.73	391,822.03	569,543.66
8,765.00	88.81	90.38	6,621.15	3,594.15	23.93	2,435.34	2,435.39	0.97	391,821.93	569,606.64
8,828.00	88.90	90.10	6,622.40	3,595.40	23.67	2,498.33	2,498.38	0.47	391,821.67	569,669.63
8,891.00	88.90	89.60	6,623.61	3,596.61	23.83	2,561.32	2,561.37	0.79	391,821.83	569,732.62
8,954.00	89.78	89.91	6,624.34	3,597.34	24.10	2,624.31	2,624.36	1.48	391,822.10	569,795.61
9,017.00	89.08	90.72	6,624.97	3,597.97	23.76	2,687.30	2,687.36	1.70	391,821.76	569,858.60
9,079.00	88.72	90.57	6,626.16	3,599.16	23.06	2,749.29	2,749.34	0.63	391,821.06	569,920.59
9,142.00	88.72	90.71	6,627.56	3,600.56	22.36	2,812.27	2,812.32	0.22	391,820.36	569,983.57
9,204.00	88.81	90.63	6,628.90	3,601.90	21.63	2,874.25	2,874.30	0.19	391,819.63	570,045.55
9,266.00	88.72	90.39	6,630.24	3,603.24	21.08	2,936.23	2,936.28	0.41	391,819.08	570,107.53
9,328.00	89.43	90.11	6,631.24	3,604.24	20.81	2,998.23	2,998.27	1.23	391,818.81	570,169.53
9,391.00	89.78	90.01	6,631.67	3,604.67	20.74	3,061.22	3,061.27	0.58	391,818.74	570,232.52
9,454.00	90.13	89.56	6,631.72	3,604.72	20.98	3,124.22	3,124.27	0.90	391,818.98	570,295.52
9,517.00	89.16	89.58	6,632.11	3,605.11	21.45	3,187.22	3,187.26	1.54	391,818.45	570,358.52
9,581.00	89.16	89.12	6,633.05	3,606.05	22.16	3,251.21	3,251.25	0.72	391,820.18	570,422.51
9,644.00	89.25	89.04	6,633.92	3,606.92	23.19	3,314.19	3,314.24	0.19	391,821.19	570,485.49
9,707.00	89.87	89.12	6,634.41	3,607.41	24.20	3,377.18	3,377.24	0.99	391,822.20	570,548.48
9,770.00	89.87	90.62	6,634.55	3,607.55	24.34	3,440.18	3,440.23	2.38	391,822.34	570,611.48
9,833.00	90.04	90.68	6,634.60	3,607.60	23.63	3,503.18	3,503.23	0.29	391,821.63	570,674.48



Pathfinder Pathfinder X & Y Survey Report



Company: Marbob
Project: Eddy County
Site: SRO State Unit Com
Well: #6 H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #6 H
TVD Reference: WELL @ 3027.00ft (Original Well Elev)
MD Reference: WELL @ 3027.00ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Midland Database

Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
9,896.00	90.48	90.36	6,634.31	3,607.31	23.06	3,566.17	3,566.22	0.86	391,821.06	570,737.47
9,958.00	90.04	90.55	6,634.03	3,607.03	22.57	3,628.17	3,628.22	0.77	391,820.57	570,799.47
10,022.00	89.96	90.87	6,634.03	3,607.03	21.77	3,692.17	3,692.21	0.52	391,819.77	570,863.47
10,085.00	89.43	90.84	6,634.37	3,607.37	20.83	3,755.16	3,755.20	0.84	391,818.83	570,925.46
10,147.00	89.16	90.65	6,635.13	3,608.13	20.03	3,817.15	3,817.19	0.53	391,818.03	570,988.45
10,242.00	89.52	90.49	6,636.23	3,609.23	19.08	3,912.14	3,912.17	0.41	391,817.08	571,083.44
10,336.00	89.87	90.15	6,636.73	3,609.73	18.56	4,006.13	4,006.17	0.52	391,816.56	571,177.43
10,430.00	88.64	90.44	6,637.95	3,610.95	18.07	4,100.12	4,100.16	1.34	391,816.07	571,271.42
10,525.00	89.08	90.16	6,639.84	3,612.84	17.58	4,195.10	4,195.13	0.55	391,815.58	571,365.40
10,620.00	89.96	90.06	6,640.63	3,613.63	17.39	4,290.10	4,290.13	0.93	391,815.39	571,461.40
10,714.00	90.66	90.07	6,640.13	3,613.13	17.29	4,384.10	4,384.13	0.74	391,815.29	571,555.40
10,777.00	91.45	89.73	6,638.97	3,611.97	17.40	4,447.08	4,447.11	1.37	391,815.40	571,618.38
10,977.00	91.45	89.73	6,633.90	3,606.90	18.34	4,647.02	4,647.05	0.00	391,816.34	571,818.32

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
PBHL(#109H)	0.00	0.00	6,600.00	13.20	4,662.20	391,811.200	571,833.500	32° 4' 37.172 N	104° 6' 5.093 W
- hit/miss target									
- Shape									
- survey misses target center by 37.50ft at 10977.00ft MD (5633.90 TVD, 18.34 N, 4647.02 E)									
- Point									

Checked By: _____

Approved By: _____

Date: _____

Surf: 660' FNL, 330' FNL
EOL: 642' FNL, 303' FEL