

Submit 3 Copies To Appropriate District Office  
District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Ave., 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

Form C-103 *RA*  
June 19, 2008

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

|                                                                                                     |
|-----------------------------------------------------------------------------------------------------|
| WELL API NO.<br>30-015-37465                                                                        |
| 5. Indicate Type of Lease<br>STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> |
| 6. State Oil & Gas Lease No.                                                                        |
| 7. Lease Name or Unit Agreement Name<br>Honeygraham State Com                                       |
| 8. Well Number 1H                                                                                   |
| 9. OGRID Number<br>14049                                                                            |
| 10. Pool name or Wildcat<br>WC; Bone Spring                                                         |
| 11. Elevation (Show whether DR, RKB, RT, GR, etc.)<br>2999'                                         |

|                                                                                                                                                                                                                        |                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| SUNDRY NOTICES AND REPORTS ON WELLS<br>(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-103) FOR SUCH PROPOSALS.)                 |                                                               |
| 1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>                                                                                         | <b>RECEIVED</b><br><b>MAY 10 2010</b><br><b>NMOCD ARTESIA</b> |
| 2. Name of Operator<br>Marbob Energy Corporation                                                                                                                                                                       |                                                               |
| 3. Address of Operator<br>P.O. Box 227, Artesia, NM 88211-0227                                                                                                                                                         |                                                               |
| 4. Well Location<br>Unit Letter <u>D</u> : <u>330</u> feet from the <u>North</u> line and <u>660</u> feet from the <u>West</u> line<br>Section <u>29</u> Township <u>26S</u> Range <u>28E</u> NMPM County: <u>Eddy</u> |                                                               |
| 11. Elevation (Show whether DR, RKB, RT, GR, etc.)<br>2999'                                                                                                                                                            |                                                               |

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

|                                                            |                                           |                                                  |                                          |
|------------------------------------------------------------|-------------------------------------------|--------------------------------------------------|------------------------------------------|
| <b>NOTICE OF INTENTION TO:</b>                             |                                           | <b>SUBSEQUENT REPORT OF:</b>                     |                                          |
| PERFORM REMEDIAL WORK <input type="checkbox"/>             | PLUG AND ABANDON <input type="checkbox"/> | REMEDIAL WORK <input type="checkbox"/>           | ALTERING CASING <input type="checkbox"/> |
| TEMPORARILY ABANDON <input type="checkbox"/>               | CHANGE PLANS <input type="checkbox"/>     | COMMENCE DRILLING OPNS. <input type="checkbox"/> | P AND A <input type="checkbox"/>         |
| PULL OR ALTER CASING <input type="checkbox"/>              | MULTIPLE COMPL <input type="checkbox"/>   | CASING/CEMENT JOB <input type="checkbox"/>       |                                          |
| DOWNHOLE COMMINGLE <input type="checkbox"/>                |                                           |                                                  |                                          |
| OTHER: Location Change <input checked="" type="checkbox"/> |                                           | OTHER: <input type="checkbox"/>                  |                                          |

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Marbob Energy Corporation respectfully requests approval for the following change in location:

From: SL: 660' FNL & 330' FWL, BHL: 660' FNL & 330' FEL, Section 29, T26S-R28E

To: SL: 330' FNL & 660' FWL, Sec 29, T26S-R28E, BHL: 330' FSL & 660' FWL, Sec 32, T26S-R28E

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Nancy T. Agnew TITLE Land Department DATE 05/06/10

Type or print name Nancy T. Agnew E-mail address: landtech@marbob.com PHONE: 575-748-3303

**For State Use Only**

APPROVED BY: [Signature] TITLE Geologist DATE 5/11/2010

Conditions of Approval (if any):

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  
11885 S. ST. FRANCIS DR., SANTA FE, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION  
11885 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         | Pool Code<br>96053                         | Pool Name<br>WC; BONE SPRING |
| Property Code      | Property Name<br>HONEYGRAHAM STATE COM     | Well Number<br>1H            |
| OGRID No.<br>14049 | Operator Name<br>MARBOB ENERGY CORPORATION | Elevation<br>2999'           |

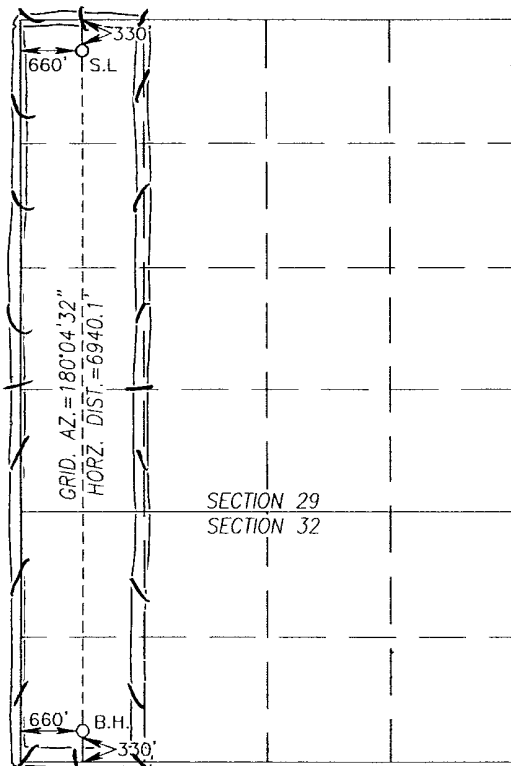
Surface Location

| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| D             | 29      | 26-S     | 28-E  |         | 330           | NORTH            | 660           | 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 |
|------------------------|-----------------|--------------------|-----------|---------|---------------|------------------|---------------|----------------|--------|
| E                      | 32              | 26-S               | 28-E      |         | 330           | SOUTH            | 660           | WEST           | EDDY   |
| Dedicated Acres<br>240 | Joint or Infill | Consolidation Code | 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



SCALE - 1"=2000'

GEODEIC COORDINATES  
NAD 27 NME  
SURFACE LOCATION

Y=371005.6 N  
X=567523.2 E

LAT =32.019821° N  
LONG.=104.115466° W

BOTTOM HOLE LOCATION  
Y=364067.3 N  
X=567513.9 E

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.

Nancy T. Agnew 5/6/10  
Signature Date

Nancy T. Agnew  
Printed Name

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.

RONALD J. EIDSON  
APRIL 12 2010  
Date Surveyed  
Signature & Seal of Professional Surveyor  
Ronald J. Eidson 04/30/2010  
104440585

Certificate No. GARY EIDSON 12641  
RON EIDSON 3239

MAY 05 2010



# **Marbob**

Eddy County

HoneyGraham State

#1H

OH

Plan: Plan #1

## **Pathfinder X & Y Planning Report**

06 May, 2010

# **PATHFINDER**



# Pathfinder

Pathfinder X & Y Planning Report



|                  |                   |                                     |                                      |
|------------------|-------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>  | Marbob            | <b>Local Co-ordinate Reference:</b> | Well #1H                             |
| <b>Project:</b>  | Eddy County       | <b>TVD Reference:</b>               | WELL @ 3027.00ft (22' KB Correction) |
| <b>Site:</b>     | HoneyGraham State | <b>MD Reference:</b>                | WELL @ 3027.00ft (22' KB Correction) |
| <b>Well:</b>     | #1H               | <b>North Reference:</b>             | Grid                                 |
| <b>Wellbore:</b> | OH                | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Design:</b>   | Plan #1           | <b>Database:</b>                    | 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                          |  | HoneyGraham State |  |                             |  |
| Site Position:                |  | Northing:         |  | 371,005.500 ft              |  |
| From: Map                     |  | Easting:          |  | 567,523.200 ft              |  |
| Position Uncertainty: 0.00 ft |  | Slot Radius:      |  | "                           |  |
|                               |  |                   |  | Latitude: 32° 1' 11.356 N   |  |
|                               |  |                   |  | Longitude: 104° 6' 55.678 W |  |
|                               |  |                   |  | Grid Convergence: 0.12 °    |  |

|                      |         |         |                     |                |               |                  |
|----------------------|---------|---------|---------------------|----------------|---------------|------------------|
| Well                 | #1H     |         |                     |                |               |                  |
| Well Position        | +N/-S   | 0.00 ft | Northing:           | 371,005.500 ft | Latitude:     | 32° 1' 11.356 N  |
|                      | +E/-W   | 0.00 ft | Easting:            | 567,523.200 ft | Longitude:    | 104° 6' 55.678 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 | 11/23/2009  | 7.99            | 59.95         | 48,642              |

|                   |                          |               |               |                  |
|-------------------|--------------------------|---------------|---------------|------------------|
| Design            |                          | Plan #1       |               |                  |
| Audit Notes:      |                          |               |               |                  |
| Version:          | Phase:                   | PLAN          | Tie On Depth: | 0.00             |
| Vertical Section: | Depth From (TVD)<br>(ft) | +N/-S<br>(ft) | +E/-W<br>(ft) | Direction<br>(°) |
|                   | 0.00                     | 0.00          | 0.00          | 180.08           |

|                     |           |                   |           |                |
|---------------------|-----------|-------------------|-----------|----------------|
| Survey Tool/Program |           | Date 05/06/2010   |           |                |
| From (ft)           | To (ft)   | Survey (Wellbore) | Tool Name | Description    |
| 0.00                | 13,283.26 | Plan #1 (OH)      | MWD       | MWD - Standard |



# Pathfinder

## Pathfinder X & Y Planning Report



|                  |                   |                                     |                                      |
|------------------|-------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>  | Marbob            | <b>Local Co-ordinate Reference:</b> | Well #1H                             |
| <b>Project:</b>  | Eddy County       | <b>TVD Reference:</b>               | WELL @ 3027.00ft (22' KB Correction) |
| <b>Site:</b>     | HoneyGraham State | <b>MD Reference:</b>                | WELL @ 3027.00ft (22' KB Correction) |
| <b>Well:</b>     | #1H               | <b>North Reference:</b>             | Grid                                 |
| <b>Wellbore:</b> | OH                | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Design:</b>   | Plan #1           | <b>Database:</b>                    | Midland Database                     |

| Planned Survey |            |            |             |               |             |             |                |                   |                  |                 |  |
|----------------|------------|------------|-------------|---------------|-------------|-------------|----------------|-------------------|------------------|-----------------|--|
| MD<br>(ft)     | Inc<br>(°) | Azi<br>(°) | TVD<br>(ft) | TVDSS<br>(ft) | N/S<br>(ft) | E/W<br>(ft) | V. Sec<br>(ft) | DLeg<br>(°/100ft) | Northing<br>(ft) | Easting<br>(ft) |  |
| 0.00           | 0.00       | 0.00       | 0.00        | -3,027.00     | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 100.00         | 0.00       | 0.00       | 100.00      | -2,927.00     | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 200.00         | 0.00       | 0.00       | 200.00      | -2,827.00     | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 300.00         | 0.00       | 0.00       | 300.00      | -2,727.00     | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 400.00         | 0.00       | 0.00       | 400.00      | -2,627.00     | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 500.00         | 0.00       | 0.00       | 500.00      | -2,527.00     | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 600.00         | 0.00       | 0.00       | 600.00      | -2,427.00     | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 700.00         | 0.00       | 0.00       | 700.00      | -2,327.00     | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 800.00         | 0.00       | 0.00       | 800.00      | -2,227.00     | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 900.00         | 0.00       | 0.00       | 900.00      | -2,127.00     | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 1,000.00       | 0.00       | 0.00       | 1,000.00    | -2,027.00     | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 1,100.00       | 0.00       | 0.00       | 1,100.00    | -1,927.00     | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 1,200.00       | 0.00       | 0.00       | 1,200.00    | -1,827.00     | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 1,300.00       | 0.00       | 0.00       | 1,300.00    | -1,727.00     | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 1,400.00       | 0.00       | 0.00       | 1,400.00    | -1,627.00     | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 1,500.00       | 0.00       | 0.00       | 1,500.00    | -1,527.00     | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 1,600.00       | 0.00       | 0.00       | 1,600.00    | -1,427.00     | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 1,700.00       | 0.00       | 0.00       | 1,700.00    | -1,327.00     | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 1,800.00       | 0.00       | 0.00       | 1,800.00    | -1,227.00     | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 1,900.00       | 0.00       | 0.00       | 1,900.00    | -1,127.00     | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 2,000.00       | 0.00       | 0.00       | 2,000.00    | -1,027.00     | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 2,100.00       | 0.00       | 0.00       | 2,100.00    | -927.00       | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 2,200.00       | 0.00       | 0.00       | 2,200.00    | -827.00       | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 2,300.00       | 0.00       | 0.00       | 2,300.00    | -727.00       | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 2,400.00       | 0.00       | 0.00       | 2,400.00    | -627.00       | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 2,500.00       | 0.00       | 0.00       | 2,500.00    | -527.00       | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 2,600.00       | 0.00       | 0.00       | 2,600.00    | -427.00       | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |



# Pathfinder

Pathfinder X & Y Planning Report



|                  |                   |                                     |                                      |
|------------------|-------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>  | Marbob            | <b>Local Co-ordinate Reference:</b> | Well #1H                             |
| <b>Project:</b>  | Eddy County       | <b>TVD Reference:</b>               | WELL @ 3027.00ft (22' KB Correction) |
| <b>Site:</b>     | HoneyGraham State | <b>MD Reference:</b>                | WELL @ 3027.00ft (22' KB Correction) |
| <b>Well:</b>     | #1H               | <b>North Reference:</b>             | Grid                                 |
| <b>Wellbore:</b> | OH                | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Design:</b>   | Plan #1           | <b>Database:</b>                    | Midland Database                     |

| Planned Survey |            |            |             |               |             |             |                |                   |                  |                 |  |
|----------------|------------|------------|-------------|---------------|-------------|-------------|----------------|-------------------|------------------|-----------------|--|
| MD<br>(ft)     | Inc<br>(°) | Azi<br>(°) | TVD<br>(ft) | TVDSS<br>(ft) | N/S<br>(ft) | E/W<br>(ft) | V. Sec<br>(ft) | DLeg<br>(°/100ft) | Northing<br>(ft) | Easting<br>(ft) |  |
| 2,700.00       | 0.00       | 0.00       | 2,700.00    | -327.00       | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 2,800.00       | 0.00       | 0.00       | 2,800.00    | -227.00       | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 2,900.00       | 0.00       | 0.00       | 2,900.00    | -127.00       | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 3,000.00       | 0.00       | 0.00       | 3,000.00    | -27.00        | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 3,100.00       | 0.00       | 0.00       | 3,100.00    | 73.00         | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 3,200.00       | 0.00       | 0.00       | 3,200.00    | 173.00        | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 3,300.00       | 0.00       | 0.00       | 3,300.00    | 273.00        | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 3,400.00       | 0.00       | 0.00       | 3,400.00    | 373.00        | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 3,500.00       | 0.00       | 0.00       | 3,500.00    | 473.00        | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 3,600.00       | 0.00       | 0.00       | 3,600.00    | 573.00        | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 3,700.00       | 0.00       | 0.00       | 3,700.00    | 673.00        | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 3,800.00       | 0.00       | 0.00       | 3,800.00    | 773.00        | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 3,900.00       | 0.00       | 0.00       | 3,900.00    | 873.00        | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 4,000.00       | 0.00       | 0.00       | 4,000.00    | 973.00        | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 4,100.00       | 0.00       | 0.00       | 4,100.00    | 1,073.00      | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 4,200.00       | 0.00       | 0.00       | 4,200.00    | 1,173.00      | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 4,300.00       | 0.00       | 0.00       | 4,300.00    | 1,273.00      | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 4,400.00       | 0.00       | 0.00       | 4,400.00    | 1,373.00      | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 4,500.00       | 0.00       | 0.00       | 4,500.00    | 1,473.00      | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 4,600.00       | 0.00       | 0.00       | 4,600.00    | 1,573.00      | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 4,700.00       | 0.00       | 0.00       | 4,700.00    | 1,673.00      | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 4,800.00       | 0.00       | 0.00       | 4,800.00    | 1,773.00      | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 4,900.00       | 0.00       | 0.00       | 4,900.00    | 1,873.00      | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 5,000.00       | 0.00       | 0.00       | 5,000.00    | 1,973.00      | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 5,100.00       | 0.00       | 0.00       | 5,100.00    | 2,073.00      | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 5,200.00       | 0.00       | 0.00       | 5,200.00    | 2,173.00      | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 5,300.00       | 0.00       | 0.00       | 5,300.00    | 2,273.00      | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |



# Pathfinder

## Pathfinder X & Y Planning Report



**Company:** Marbob  
**Project:** Eddy County  
**Site:** HoneyGraham State  
**Well:** #1H  
**Wellbore:** OH  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well #1H  
**TVD Reference:** WELL @ 3027.00ft (22' KB Correction)  
**MD Reference:** WELL @ 3027.00ft (22' KB Correction)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** Midland Database

| Planned Survey |            |            |             |               |             |             |                |                   |                  |                 |  |
|----------------|------------|------------|-------------|---------------|-------------|-------------|----------------|-------------------|------------------|-----------------|--|
| MD<br>(ft)     | Inc<br>(°) | Azi<br>(°) | TVD<br>(ft) | TVDSS<br>(ft) | N/S<br>(ft) | E/W<br>(ft) | V. Sec<br>(ft) | DLeg<br>(°/100ft) | Northing<br>(ft) | Easting<br>(ft) |  |
| 5,400.00       | 0.00       | 0.00       | 5,400.00    | 2,373.00      | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 5,500.00       | 0.00       | 0.00       | 5,500.00    | 2,473.00      | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 5,600.00       | 0.00       | 0.00       | 5,600.00    | 2,573.00      | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 5,700.00       | 0.00       | 0.00       | 5,700.00    | 2,673.00      | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 5,800.00       | 0.00       | 0.00       | 5,800.00    | 2,773.00      | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 5,900.00       | 0.00       | 0.00       | 5,900.00    | 2,873.00      | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 6,000.00       | 0.00       | 0.00       | 6,000.00    | 2,973.00      | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 6,072.50       | 0.00       | 0.00       | 6,072.50    | 3,045.50      | 0.00        | 0.00        | 0.00           | 0.00              | 371,005.50       | 567,523.20      |  |
| 6,075.00       | 0.30       | 180.08     | 6,075.00    | 3,048.00      | -0.01       | 0.00        | 0.01           | 12.00             | 371,005.49       | 567,523.20      |  |
| 6,100.00       | 3.30       | 180.08     | 6,099.98    | 3,072.98      | -0.79       | 0.00        | 0.79           | 12.00             | 371,004.71       | 567,523.20      |  |
| 6,125.00       | 6.30       | 180.08     | 6,124.89    | 3,097.89      | -2.88       | 0.00        | 2.88           | 12.00             | 371,002.62       | 567,523.20      |  |
| 6,150.00       | 9.30       | 180.08     | 6,149.66    | 3,122.66      | -6.28       | -0.01       | 6.28           | 12.00             | 370,999.22       | 567,523.19      |  |
| 6,175.00       | 12.30      | 180.08     | 6,174.21    | 3,147.21      | -10.96      | -0.02       | 10.96          | 12.00             | 370,994.54       | 567,523.18      |  |
| 6,200.00       | 15.30      | 180.08     | 6,198.49    | 3,171.49      | -16.92      | -0.02       | 16.92          | 12.00             | 370,988.58       | 567,523.18      |  |
| 6,225.00       | 18.30      | 180.08     | 6,222.42    | 3,195.42      | -24.15      | -0.03       | 24.15          | 12.00             | 370,981.35       | 567,523.17      |  |
| 6,250.00       | 21.30      | 180.08     | 6,245.94    | 3,218.94      | -32.61      | -0.05       | 32.61          | 12.00             | 370,972.89       | 567,523.15      |  |
| 6,275.00       | 24.30      | 180.08     | 6,268.98    | 3,241.98      | -42.30      | -0.06       | 42.30          | 12.00             | 370,963.20       | 567,523.14      |  |
| 6,300.00       | 27.30      | 180.08     | 6,291.49    | 3,264.49      | -53.18      | -0.07       | 53.18          | 12.00             | 370,952.32       | 567,523.13      |  |
| 6,325.00       | 30.30      | 180.08     | 6,313.40    | 3,286.40      | -65.22      | -0.09       | 65.22          | 12.00             | 370,940.28       | 567,523.11      |  |
| 6,350.00       | 33.30      | 180.08     | 6,334.64    | 3,307.64      | -78.39      | -0.11       | 78.39          | 12.00             | 370,927.11       | 567,523.09      |  |
| 6,375.00       | 36.30      | 180.08     | 6,355.17    | 3,328.17      | -92.66      | -0.13       | 92.66          | 12.00             | 370,912.84       | 567,523.07      |  |
| 6,400.00       | 39.30      | 180.08     | 6,374.92    | 3,347.92      | -107.98     | -0.15       | 107.98         | 12.00             | 370,897.52       | 567,523.05      |  |
| 6,425.00       | 42.30      | 180.08     | 6,393.84    | 3,366.84      | -124.31     | -0.17       | 124.31         | 12.00             | 370,881.19       | 567,523.03      |  |
| 6,450.00       | 45.30      | 180.08     | 6,411.89    | 3,384.89      | -141.61     | -0.20       | 141.61         | 12.00             | 370,863.89       | 567,523.00      |  |
| 6,475.00       | 48.30      | 180.08     | 6,429.00    | 3,402.00      | -159.83     | -0.22       | 159.83         | 12.00             | 370,845.67       | 567,522.98      |  |
| 6,500.00       | 51.30      | 180.08     | 6,445.14    | 3,418.14      | -178.92     | -0.25       | 178.92         | 12.00             | 370,826.58       | 567,522.95      |  |
| 6,525.00       | 54.30      | 180.08     | 6,460.25    | 3,433.25      | -198.83     | -0.28       | 198.83         | 12.00             | 370,806.67       | 567,522.92      |  |



# Pathfinder

Pathfinder X & Y Planning Report



|                  |                   |                                     |                                      |
|------------------|-------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>  | Marbob            | <b>Local Co-ordinate Reference:</b> | Well #1H                             |
| <b>Project:</b>  | Eddy County       | <b>TVD Reference:</b>               | WELL @ 3027.00ft (22' KB Correction) |
| <b>Site:</b>     | HoneyGraham State | <b>MD Reference:</b>                | WELL @ 3027.00ft (22' KB Correction) |
| <b>Well:</b>     | #1H               | <b>North Reference:</b>             | Grid                                 |
| <b>Wellbore:</b> | OH                | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Design:</b>   | Plan #1           | <b>Database:</b>                    | Midland Database                     |

| Planned Survey |            |            |             |               |             |             |                |                   |                  |                 |  |
|----------------|------------|------------|-------------|---------------|-------------|-------------|----------------|-------------------|------------------|-----------------|--|
| MD<br>(ft)     | Inc<br>(°) | Azi<br>(°) | TVD<br>(ft) | TVDSS<br>(ft) | N/S<br>(ft) | E/W<br>(ft) | V. Sec<br>(ft) | DLeg<br>(°/100ft) | Northing<br>(ft) | Easting<br>(ft) |  |
| 6,550.00       | 57.30      | 180.08     | 6,474.30    | 3,447.30      | -219.51     | -0.31       | 219.51         | 12.00             | 370,785.99       | 567,522.89      |  |
| 6,575.00       | 60.30      | 180.08     | 6,487.25    | 3,460.25      | -240.89     | -0.34       | 240.89         | 12.00             | 370,764.61       | 567,522.86      |  |
| 6,600.00       | 63.30      | 180.08     | 6,499.07    | 3,472.07      | -262.92     | -0.37       | 262.92         | 12.00             | 370,742.58       | 567,522.83      |  |
| 6,625.00       | 66.30      | 180.08     | 6,509.71    | 3,482.71      | -285.53     | -0.40       | 285.53         | 12.00             | 370,719.97       | 567,522.80      |  |
| 6,650.00       | 69.29      | 180.08     | 6,519.16    | 3,492.16      | -308.68     | -0.43       | 308.68         | 12.00             | 370,696.82       | 567,522.77      |  |
| 6,675.00       | 72.29      | 180.08     | 6,527.38    | 3,500.38      | -332.28     | -0.46       | 332.28         | 12.00             | 370,673.22       | 567,522.74      |  |
| 6,700.00       | 75.29      | 180.08     | 6,534.36    | 3,507.36      | -356.29     | -0.50       | 356.29         | 12.00             | 370,649.21       | 567,522.70      |  |
| 6,725.00       | 78.29      | 180.08     | 6,540.07    | 3,513.07      | -380.62     | -0.53       | 380.62         | 12.00             | 370,624.88       | 567,522.67      |  |
| 6,750.00       | 81.29      | 180.08     | 6,544.50    | 3,517.50      | -405.22     | -0.57       | 405.22         | 12.00             | 370,600.28       | 567,522.63      |  |
| 6,775.00       | 84.29      | 180.08     | 6,547.63    | 3,520.63      | -430.02     | -0.60       | 430.02         | 12.00             | 370,575.48       | 567,522.60      |  |
| 6,800.00       | 87.29      | 180.08     | 6,549.47    | 3,522.47      | -454.95     | -0.64       | 454.95         | 12.00             | 370,550.55       | 567,522.56      |  |
| 6,822.56       | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -477.50     | -0.67       | 477.50         | 12.00             | 370,528.00       | 567,522.53      |  |
| 6,900.00       | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -554.94     | -0.77       | 554.94         | 0.00              | 370,450.56       | 567,522.43      |  |
| 7,000.00       | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -654.94     | -0.91       | 654.94         | 0.00              | 370,350.56       | 567,522.29      |  |
| 7,100.00       | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -754.94     | -1.05       | 754.94         | 0.00              | 370,250.56       | 567,522.15      |  |
| 7,200.00       | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -854.94     | -1.19       | 854.94         | 0.00              | 370,150.56       | 567,522.01      |  |
| 7,300.00       | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -954.94     | -1.33       | 954.94         | 0.00              | 370,050.56       | 567,521.87      |  |
| 7,400.00       | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -1,054.94   | -1.47       | 1,054.94       | 0.00              | 369,950.56       | 567,521.73      |  |
| 7,500.00       | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -1,154.94   | -1.61       | 1,154.94       | 0.00              | 369,850.56       | 567,521.59      |  |
| 7,600.00       | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -1,254.94   | -1.75       | 1,254.94       | 0.00              | 369,750.56       | 567,521.45      |  |
| 7,700.00       | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -1,354.94   | -1.89       | 1,354.94       | 0.00              | 369,650.56       | 567,521.31      |  |
| 7,800.00       | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -1,454.94   | -2.03       | 1,454.94       | 0.00              | 369,550.56       | 567,521.17      |  |
| 7,900.00       | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -1,554.94   | -2.17       | 1,554.94       | 0.00              | 369,450.56       | 567,521.03      |  |
| 8,000.00       | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -1,654.94   | -2.31       | 1,654.94       | 0.00              | 369,350.56       | 567,520.89      |  |
| 8,100.00       | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -1,754.94   | -2.45       | 1,754.94       | 0.00              | 369,250.56       | 567,520.75      |  |
| 8,200.00       | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -1,854.94   | -2.59       | 1,854.94       | 0.00              | 369,150.56       | 567,520.61      |  |
| 8,300.00       | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -1,954.94   | -2.73       | 1,954.94       | 0.00              | 369,050.56       | 567,520.47      |  |



# Pathfinder

Pathfinder X & Y Planning Report



|                  |                   |                                     |                                      |
|------------------|-------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>  | Marbob            | <b>Local Co-ordinate Reference:</b> | Well #1H                             |
| <b>Project:</b>  | Eddy County       | <b>TVD Reference:</b>               | WELL @ 3027.00ft (22' KB Correction) |
| <b>Site:</b>     | HoneyGraham State | <b>MD Reference:</b>                | WELL @ 3027.00ft (22' KB Correction) |
| <b>Well:</b>     | #1H               | <b>North Reference:</b>             | Grid                                 |
| <b>Wellbore:</b> | OH                | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Design:</b>   | Plan #1           | <b>Database:</b>                    | Midland Database                     |

| Planned Survey |            |            |             |               |             |             |                |                   |                  |                 |  |
|----------------|------------|------------|-------------|---------------|-------------|-------------|----------------|-------------------|------------------|-----------------|--|
| MD<br>(ft)     | Inc<br>(°) | Azi<br>(°) | TVD<br>(ft) | TVDSS<br>(ft) | N/S<br>(ft) | E/W<br>(ft) | V. Sec<br>(ft) | DLeg<br>(°/100ft) | Northing<br>(ft) | Easting<br>(ft) |  |
| 8,400.00       | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -2,054.94   | -2.87       | 2,054.94       | 0.00              | 368,950.56       | 567,520.33      |  |
| 8,500.00       | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -2,154.94   | -3.01       | 2,154.94       | 0.00              | 368,850.56       | 567,520.19      |  |
| 8,600.00       | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -2,254.94   | -3.15       | 2,254.94       | 0.00              | 368,750.56       | 567,520.05      |  |
| 8,700.00       | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -2,354.94   | -3.29       | 2,354.94       | 0.00              | 368,650.56       | 567,519.91      |  |
| 8,800.00       | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -2,454.94   | -3.43       | 2,454.94       | 0.00              | 368,550.56       | 567,519.77      |  |
| 8,900.00       | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -2,554.94   | -3.57       | 2,554.94       | 0.00              | 368,450.56       | 567,519.63      |  |
| 9,000.00       | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -2,654.94   | -3.71       | 2,654.94       | 0.00              | 368,350.56       | 567,519.49      |  |
| 9,100.00       | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -2,754.94   | -3.85       | 2,754.94       | 0.00              | 368,250.56       | 567,519.35      |  |
| 9,200.00       | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -2,854.94   | -3.99       | 2,854.94       | 0.00              | 368,150.56       | 567,519.21      |  |
| 9,300.00       | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -2,954.94   | -4.13       | 2,954.94       | 0.00              | 368,050.56       | 567,519.07      |  |
| 9,400.00       | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -3,054.94   | -4.27       | 3,054.94       | 0.00              | 367,950.56       | 567,518.93      |  |
| 9,500.00       | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -3,154.94   | -4.41       | 3,154.94       | 0.00              | 367,850.56       | 567,518.79      |  |
| 9,600.00       | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -3,254.94   | -4.54       | 3,254.94       | 0.00              | 367,750.56       | 567,518.66      |  |
| 9,700.00       | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -3,354.94   | -4.68       | 3,354.94       | 0.00              | 367,650.56       | 567,518.52      |  |
| 9,800.00       | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -3,454.94   | -4.82       | 3,454.94       | 0.00              | 367,550.56       | 567,518.38      |  |
| 9,900.00       | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -3,554.94   | -4.96       | 3,554.94       | 0.00              | 367,450.56       | 567,518.24      |  |
| 10,000.00      | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -3,654.94   | -5.10       | 3,654.94       | 0.00              | 367,350.56       | 567,518.10      |  |
| 10,100.00      | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -3,754.94   | -5.24       | 3,754.94       | 0.00              | 367,250.56       | 567,517.96      |  |
| 10,200.00      | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -3,854.94   | -5.38       | 3,854.94       | 0.00              | 367,150.56       | 567,517.82      |  |
| 10,300.00      | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -3,954.94   | -5.52       | 3,954.94       | 0.00              | 367,050.56       | 567,517.68      |  |
| 10,400.00      | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -4,054.94   | -5.66       | 4,054.94       | 0.00              | 366,950.56       | 567,517.54      |  |
| 10,500.00      | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -4,154.94   | -5.80       | 4,154.94       | 0.00              | 366,850.56       | 567,517.40      |  |
| 10,600.00      | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -4,254.94   | -5.94       | 4,254.94       | 0.00              | 366,750.56       | 567,517.26      |  |
| 10,700.00      | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -4,354.94   | -6.08       | 4,354.94       | 0.00              | 366,650.56       | 567,517.12      |  |
| 10,800.00      | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -4,454.94   | -6.22       | 4,454.94       | 0.00              | 366,550.56       | 567,516.98      |  |
| 10,900.00      | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -4,554.94   | -6.36       | 4,554.94       | 0.00              | 366,450.56       | 567,516.84      |  |
| 11,000.00      | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -4,654.94   | -6.50       | 4,654.94       | 0.00              | 366,350.56       | 567,516.70      |  |



# Pathfinder

## Pathfinder X & Y Planning Report



|                  |                   |                                     |                                      |
|------------------|-------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>  | Marbob            | <b>Local Co-ordinate Reference:</b> | Well #1H                             |
| <b>Project:</b>  | Eddy County       | <b>TVD Reference:</b>               | WELL @ 3027.00ft (22' KB Correction) |
| <b>Site:</b>     | HoneyGraham State | <b>MD Reference:</b>                | WELL @ 3027.00ft (22' KB Correction) |
| <b>Well:</b>     | #1H               | <b>North Reference:</b>             | Grid                                 |
| <b>Wellbore:</b> | OH                | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Design:</b>   | Plan #1           | <b>Database:</b>                    | Midland Database                     |

| Planned Survey |            |            |             |               |             |             |                |                   |                  |                 |  |
|----------------|------------|------------|-------------|---------------|-------------|-------------|----------------|-------------------|------------------|-----------------|--|
| MD<br>(ft)     | Inc<br>(°) | Azi<br>(°) | TVD<br>(ft) | TVDSS<br>(ft) | N/S<br>(ft) | E/W<br>(ft) | V. Sec<br>(ft) | DLeg<br>(°/100ft) | Northing<br>(ft) | Easting<br>(ft) |  |
| 11,100.00      | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -4,754.94   | -6.64       | 4,754.94       | 0.00              | 366,250.56       | 567,516.56      |  |
| 11,200.00      | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -4,854.94   | -6.78       | 4,854.94       | 0.00              | 366,150.56       | 567,516.42      |  |
| 11,300.00      | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -4,954.94   | -6.92       | 4,954.94       | 0.00              | 366,050.56       | 567,516.28      |  |
| 11,400.00      | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -5,054.94   | -7.06       | 5,054.94       | 0.00              | 365,950.56       | 567,516.14      |  |
| 11,500.00      | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -5,154.94   | -7.20       | 5,154.94       | 0.00              | 365,850.56       | 567,516.00      |  |
| 11,600.00      | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -5,254.94   | -7.34       | 5,254.94       | 0.00              | 365,750.56       | 567,515.86      |  |
| 11,700.00      | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -5,354.94   | -7.48       | 5,354.94       | 0.00              | 365,650.56       | 567,515.72      |  |
| 11,800.00      | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -5,454.94   | -7.62       | 5,454.94       | 0.00              | 365,550.56       | 567,515.58      |  |
| 11,900.00      | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -5,554.94   | -7.76       | 5,554.94       | 0.00              | 365,450.56       | 567,515.44      |  |
| 12,000.00      | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -5,654.94   | -7.90       | 5,654.94       | 0.00              | 365,350.56       | 567,515.30      |  |
| 12,100.00      | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -5,754.94   | -8.04       | 5,754.94       | 0.00              | 365,250.56       | 567,515.16      |  |
| 12,200.00      | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -5,854.94   | -8.18       | 5,854.94       | 0.00              | 365,150.56       | 567,515.02      |  |
| 12,300.00      | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -5,954.94   | -8.31       | 5,954.94       | 0.00              | 365,050.56       | 567,514.89      |  |
| 12,400.00      | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -6,054.94   | -8.45       | 6,054.94       | 0.00              | 364,950.56       | 567,514.75      |  |
| 12,500.00      | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -6,154.94   | -8.59       | 6,154.94       | 0.00              | 364,850.56       | 567,514.61      |  |
| 12,600.00      | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -6,254.94   | -8.73       | 6,254.94       | 0.00              | 364,750.56       | 567,514.47      |  |
| 12,700.00      | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -6,354.94   | -8.87       | 6,354.94       | 0.00              | 364,650.56       | 567,514.33      |  |
| 12,800.00      | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -6,454.94   | -9.01       | 6,454.94       | 0.00              | 364,550.56       | 567,514.19      |  |
| 12,900.00      | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -6,554.94   | -9.15       | 6,554.94       | 0.00              | 364,450.56       | 567,514.05      |  |
| 13,000.00      | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -6,654.94   | -9.29       | 6,654.94       | 0.00              | 364,350.56       | 567,513.91      |  |
| 13,100.00      | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -6,754.94   | -9.43       | 6,754.94       | 0.00              | 364,250.56       | 567,513.77      |  |
| 13,200.00      | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -6,854.94   | -9.57       | 6,854.94       | 0.00              | 364,150.56       | 567,513.63      |  |
| 13,283.26      | 90.00      | 180.08     | 6,550.00    | 3,523.00      | -6,938.20   | -9.69       | 6,938.21       | 0.00              | 364,067.30       | 567,513.51      |  |
| PBHL(HG#1H)    |            |            |             |               |             |             |                |                   |                  |                 |  |



**Pathfinder**  
Pathfinder X & Y Planning Report



|                  |                   |                                     |                                      |
|------------------|-------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>  | Marbob            | <b>Local Co-ordinate Reference:</b> | Well #1H                             |
| <b>Project:</b>  | Eddy County       | <b>TVD Reference:</b>               | WELL @ 3027.00ft (22' KB Correction) |
| <b>Site:</b>     | HoneyGraham State | <b>MD Reference:</b>                | WELL @ 3027.00ft (22' KB Correction) |
| <b>Well:</b>     | #1H               | <b>North Reference:</b>             | Grid                                 |
| <b>Wellbore:</b> | OH                | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Design:</b>   | Plan #1           | <b>Database:</b>                    | Midland Database                     |

| Targets                   |           |          |          |           |       |             |             |                |                  |
|---------------------------|-----------|----------|----------|-----------|-------|-------------|-------------|----------------|------------------|
| Target Name               |           |          |          |           |       |             |             |                |                  |
| - hit/miss target         | Dip Angle | Dip Dir. | TVD      | +N/-S     | +E/-W | Northing    | Easting     | Latitude       | Longitude        |
| - Shape                   | (°)       | (°)      | (ft)     | (ft)      | (ft)  | (ft)        | (ft)        |                |                  |
| PBHL(HG#1H)               | 0.00      | 0.00     | 6,550.00 | -6,938.20 | -9.30 | 364,067.300 | 567,513.900 | 32° 0' 2.691 N | 104° 6' 55.949 W |
| - plan hits target center |           |          |          |           |       |             |             |                |                  |
| - Point                   |           |          |          |           |       |             |             |                |                  |

|                   |                    |             |
|-------------------|--------------------|-------------|
| Checked By: _____ | Approved By: _____ | Date: _____ |
|-------------------|--------------------|-------------|



Project: Eddy County  
Site: HoneyGraham Stat  
Well: #1H  
Wellbore: OH  
Plan: Plan #1 (#1H/OH)



Azimuths to Grid North  
True North: -0.12°  
Magnetic North: 7.88°

Magnetic Field  
Strength: 48642.3snT  
Dip Angle: 59.95°  
Date: 11/23/2009  
Model: IGRF200510

# PATHFINDER

PROJECT DETAILS: Eddy County  
Geodetic System: US State Plane 1927 (Exact solution)  
Datum: NAD 1927 (NADCON CONUS)  
Ellipsoid: Clarke 1866  
Zone: New Mexico East 3001  
System Datum: Mean Sea Level  
Local North: Grid

| 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               | 6072.50  | 0.00  | 0.00   | 6072.50 | 0.00     | 0.00  | 0.00  | 0.00   | 0.00    |             |
| 3               | 6822.56  | 90.00 | 180.08 | 6550.00 | -477.50  | -0.67 | 12.00 | 180.08 | 477.50  |             |
| 4               | 13283.26 | 90.00 | 180.08 | 6550.00 | -6938.20 | -9.69 | 0.00  | 0.00   | 6938.21 | PBHL(HG#1H) |

| WELLBORE TARGET DETAILS (MAP CO-ORDINATES) |         |          |       |            |            |             |
|--------------------------------------------|---------|----------|-------|------------|------------|-------------|
| Name                                       | TVD     | +N/-S    | +E/-W | Northing   | Easting    | Shape Point |
| PBHL(HG#1H)                                | 6550.00 | -6938.20 | -9.30 | 364067.300 | 567513.900 |             |

| WELL DETAILS #1H                                   |       |            |            |                 |                  |      |
|----------------------------------------------------|-------|------------|------------|-----------------|------------------|------|
| Ground Elevation 3005.00                           |       |            |            |                 |                  |      |
| RKB Elevation WELL @ 3027.00ft (22' KB Correction) |       |            |            |                 |                  |      |
| Rig Name 22' KB Correction                         |       |            |            |                 |                  |      |
| +N/-S                                              | +E/-W | Northing   | Easting    | Latitude        | Longitude        | Slot |
| 0.00                                               | 0.00  | 371005.500 | 567523.200 | 32° 1' 11.356 N | 104° 6' 55.678 W |      |

