

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA  
MAY 12 2009

FORM APPROVED  
OMB No. 1004-0137  
Expires: March 31, 2007

**SUNDRY NOTICES AND REPORTS ON WELLS**

*Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160 - 3 (APD) for such proposals.*

**SUBMIT IN TRIPLICATE- Other instructions on reverse side.**

1 Type of Well  
☒ Oil Well ☐ Gas Well ☐ Other

2 Name of Operator  
**BOPCO, L. P.**

3a Address  
**P. O. Box 2760 Midland, TX 79702**

3b Phone No (include area code)  
**432-683-2277**

4 Location of Well (Footage, Sec., T., R., M., or Survey Description)

**Surface: SWSW, 660' FSL, 660' FWL, Sec 6, T24S, R30E, Lat N32.142787, Lon W103.553682  
BHL: SESW, 660' FSL, 1980' FWL, Sec 5, T24S, R30E, Lat N32.24117, Lon W103.90528**

5 Lease Serial No  
**LC 06845**

6 If Indian, Allottee or Tribe Name

7 If Unit or CA/Agreement, Name and/or No  
**NMNM 71016X**

8 Well Name and No.  
**Poker Lake Unit #265H**

9 API Well No  
**30-015-35614**

10. Field and Pool, or Exploratory Area  
**Undesignated (Bone Spring)**

11. County or Parish, State  
**Eddy County, NM**

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

| TYPE OF SUBMISSION                                   | TYPE OF ACTION                                   |                                           |                                                    |                                         |
|------------------------------------------------------|--------------------------------------------------|-------------------------------------------|----------------------------------------------------|-----------------------------------------|
| <input checked="" type="checkbox"/> Notice of Intent | <input type="checkbox"/> Acidize                 | <input type="checkbox"/> Deepen           | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Subsequent Report           | <input type="checkbox"/> Alter Casing            | <input type="checkbox"/> Fracture Treat   | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Final Abandonment Notice    | <input type="checkbox"/> Casing Repair           | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete                | <input type="checkbox"/> Other          |
|                                                      | <input checked="" type="checkbox"/> Change Plans | <input type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon       |                                         |
|                                                      | <input type="checkbox"/> Convert to Injection    | <input type="checkbox"/> Plug Back        | <input type="checkbox"/> Water Disposal            |                                         |

13 Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

**BOPCO L.P. requests approval of the attached revised horizontal well plan reflecting a change in BHL only. No changes in casing program will be made other than additional length of 4-1/2" casing installed. New Plat and directional plan attached.**

**BOPCO L.P. Bond # on file: COB00050**

**SEE ATTACHED FOR  
CONDITIONS OF APPROVAL**

14 I hereby certify that the foregoing is true and correct  
Name (Printed/Typed)

**Annette Childers**

Title **Regulatory Clerk**

Signature

*Annette Childers*

Date

**5-5-09**

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Office

**APPROVED**

Date **MAY 9 2009**

**WESLEY W. INGRAM**

**PETROLEUM ENGINEER**

Title 18 USC Section 1001 and Title 43 USC Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

DISTRICT I  
1625 N. French Dr., Hobbs, NM 88240

DISTRICT II  
1901 W. Grand Avenue, Artesia, NM 88210

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV  
1220 St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-102  
Revised October 12, 2005

Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

|                                   |                                         |                                                |
|-----------------------------------|-----------------------------------------|------------------------------------------------|
| API Number<br><b>30-D15-35614</b> | Pool Code                               | Pool Name<br><b>Undesignated (Bone Spring)</b> |
| Property Code<br><b>306402</b>    | Property Name<br><b>POKER LAKE UNIT</b> | Well Number<br><b>265H</b>                     |
| OGRID No.<br><b>26737</b>         | Operator Name<br><b>BOPCO, L.P.</b>     | Elevation<br><b>3166'</b>                      |

Surface Location

| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| LOT 4         | 6       | 24 S     | 30 E  |         | 660           | SOUTH            | 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 |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| M             | 5       | 24 S     | 30 E  |         | 660           | SOUTH            | 1980          | WEST           | EDDY   |

|                               |                             |                    |           |
|-------------------------------|-----------------------------|--------------------|-----------|
| Dedicated Acres<br><b>240</b> | Joint or Infill<br><b>N</b> | 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

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 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.

*Gary E. Corhard*  
Signature Date  
**Gary E. Corhard**  
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.

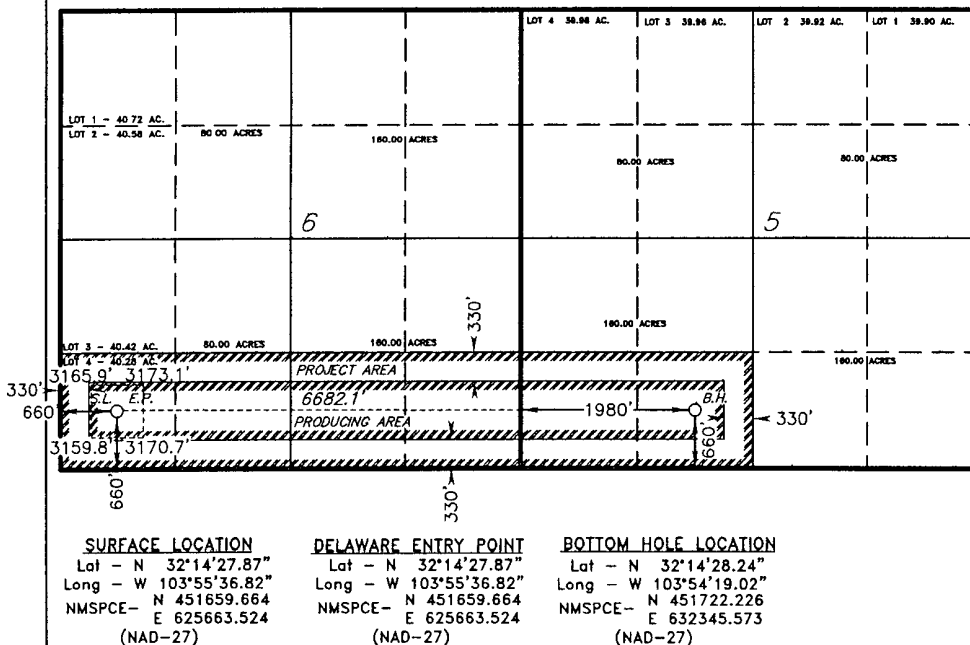
MAY 1 2009

Date Surveyed  
Signature & Seal of Professional Surveyor

*Gary L. Jones*  
Professional Surveyor  
7977

Certificate No. Gary L. Jones 7977

BASIN SURVEYS



**BOPCO, L.P.**

Poker Lake Unit

PLU #265H

#265H

OH

Plan: Plan #3

## **Pathfinder X & Y Survey Report**

04 May, 2009

**PATHFINDER**

# BOPCO, L.P.



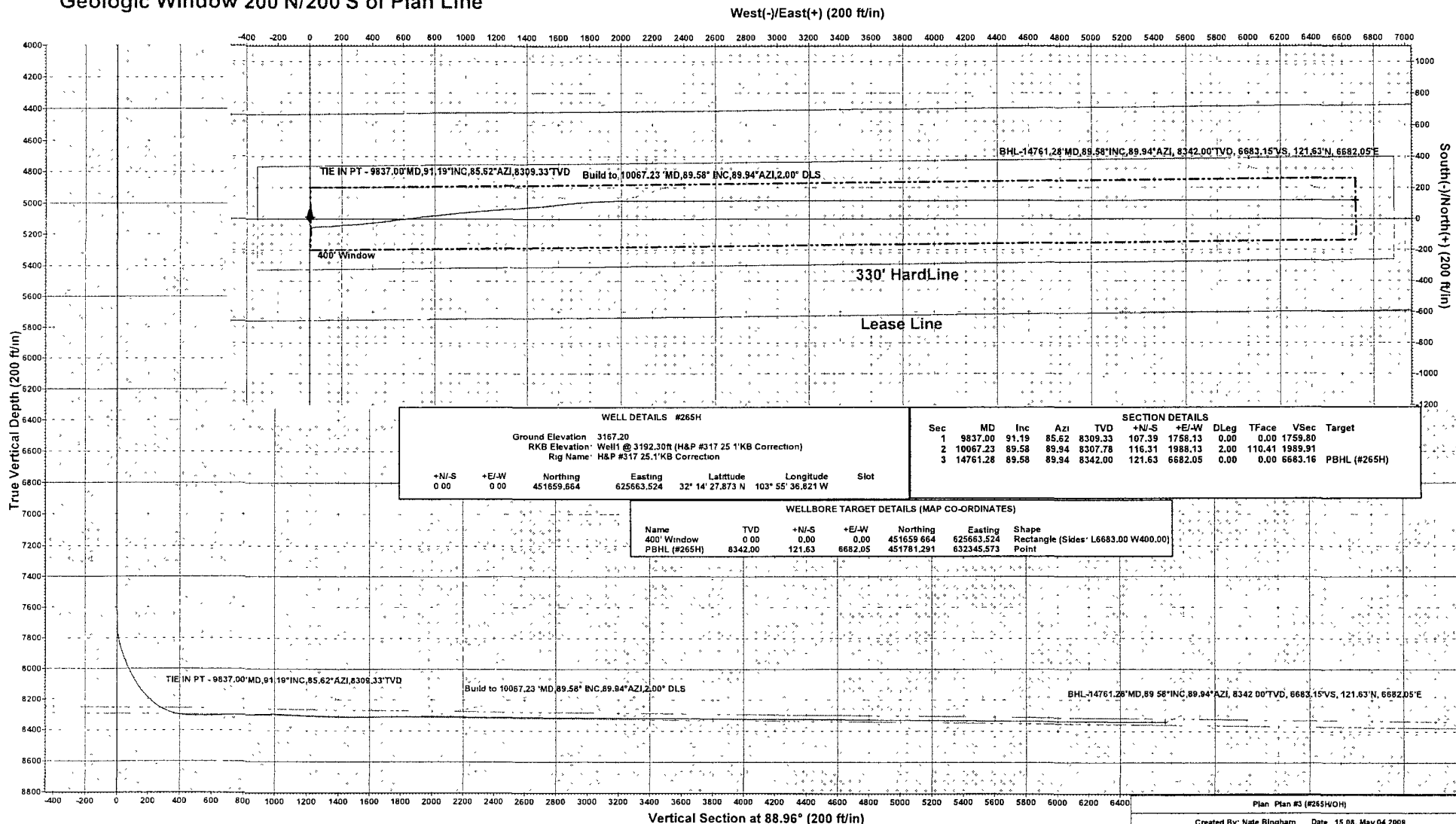
Azimuths to Grid North  
 True North: -0.22°  
 Magnetic North: 7.85°  
 Magnetic Field  
 Strength: 48847.5nT  
 Dip Angle: 60.19°  
 Date: 03/25/2009  
 Model: IGRF200510

PROJECT DETAILS: Poker Lake Unit  
 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

## PATHFINDER

Project: Poker Lake Unit  
 Site: PLU #265H  
 Well: #265H  
 Wellbore: OH  
 Plan: Plan #3 (#265H/OH)

40' TVD Drill Window  
 Drill Window 20' TVD Above/20' TVD Below of Plan Line  
 400' Geological Window N/S  
 Geologic Window 200'N/200'S of Plan Line



**Pathfinder Energy Services**  
Pathfinder X & Y Survey Report



**Company:** BOPCO, L.P.  
**Project:** Poker Lake Unit  
**Site:** PLU #265H  
**Well:** #265H  
**Wellbore:** OH  
**Design:** Plan #3

**Local Co-ordinate Reference:** Well #265H  
**TVD Reference:** Well1 @ 3192.30ft (H&P #317 25.1'KB Correction)  
**MD Reference:** Well1 @ 3192.30ft (H&P #317 25.1'KB Correction)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** Midland Database

|                    |                                      |                      |                |
|--------------------|--------------------------------------|----------------------|----------------|
| <b>Project</b>     | Poker Lake Unit                      |                      |                |
| <b>Map System:</b> | US State Plane 1927 (Exact solution) | <b>System Datum:</b> | Mean Sea Level |
| <b>Geo Datum:</b>  | NAD 1927 (NADCON CONUS)              |                      |                |
| <b>Map Zone:</b>   | New Mexico East 3001                 |                      |                |

|                       |  |              |  |                              |  |
|-----------------------|--|--------------|--|------------------------------|--|
| Site                  |  | PLU #265H    |  |                              |  |
| Site Position:        |  | Northing:    |  | 451,659.664 ft               |  |
| From:                 |  | Easting:     |  | 625,663.524 ft               |  |
| Position Uncertainty: |  | Slot Radius: |  | "                            |  |
| Map                   |  |              |  | Latitude: 32° 14' 27.873 N   |  |
| 0.00 ft               |  |              |  | Longitude: 103° 55' 36.821 W |  |
|                       |  |              |  | Grid Convergence: 0.22 °     |  |

|                      |       |         |                     |                |               |                   |
|----------------------|-------|---------|---------------------|----------------|---------------|-------------------|
| Well:                | #265H |         |                     |                |               |                   |
| Well Position        | +N/-S | 0.00 ft | Northing:           | 451,659.664 ft | Latitude:     | 32° 14' 27.873 N  |
|                      | +E/-W | 0.00 ft | Easting:            | 625,663.524 ft | Longitude:    | 103° 55' 36.821 W |
| Position Uncertainty |       | 0.00 ft | Wellhead Elevation: | ft             | Ground Level: | 3,167.20 ft       |

|           |            |             |             |           |                |
|-----------|------------|-------------|-------------|-----------|----------------|
| Wellbore  | OH         |             |             |           |                |
| Magnetics | Model Name | Sample Date | Declination | Dip Angle | Field Strength |
|           |            |             | (°)         | (°)       | (nT)           |
|           | IGRF200510 | 03/25/2009  | 8.07        | 60.19     | 48,848         |

|                   |                  |      |               |           |
|-------------------|------------------|------|---------------|-----------|
| Design:           | Plan #3          |      |               |           |
| Audit Notes:      |                  |      |               |           |
| Version:          | Phase:           | PLAN | Tie On Depth: | 9,837.00  |
| Vertical Section: | Depth From (TVD) | +N-S | +E-W          | Direction |
|                   | (ft)             | (ft) | (ft)          | (°)       |
|                   | 0.00             | 0.00 | 0.00          | 88.96     |

**Pathfinder Energy Services**  
Pathfinder X & Y Survey Report



**Company:** BOPCO, L.P.  
**Project:** Poker Lake Unit  
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**Well:** #265H  
**Wellbore:** OH  
**Design:** Plan #3

**Local Co-ordinate Reference:** Well #265H  
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**MD Reference:** Well1 @ 3192.30ft (H&P #317 25.1'KB Correction)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** Midland Database

| Survey Tool Program |           | Date              | 05/04/2009 |                             |  |  |
|---------------------|-----------|-------------------|------------|-----------------------------|--|--|
| From (ft)           | To (ft)   | Survey (Wellbore) | Tool Name  | Description                 |  |  |
| 100.00              | 7,690.00  | Gyro (OH)         | CB-GYRO-MS | Camera based gyro multishot |  |  |
| 7,704.00            | 9,837.00  | MWD #1 (OH)       | MWD        | MWD - Standard              |  |  |
| 9,837.00            | 14,761.28 | Plan #3 (OH)      | MWD        | MWD - Standard              |  |  |

| Planned Survey     |         |         |          |            |          |          |             |                |               |              |  |
|--------------------|---------|---------|----------|------------|----------|----------|-------------|----------------|---------------|--------------|--|
| MD (ft)            | Inc (°) | Azi (°) | TVD (ft) | TVDSS (ft) | N/S (ft) | E/W (ft) | V. Sec (ft) | DLeg (°/100ft) | Northing (ft) | Easting (ft) |  |
| 0.00               | 0.00    | 0.00    | 0.00     | -3,192.30  | 0.00     | 0.00     | 0.00        | 0.00           | 451,659.66    | 625,663.52   |  |
| <b>400' Window</b> |         |         |          |            |          |          |             |                |               |              |  |
| 100.00             | 0.25    | 321.48  | 100.00   | -3,092.30  | 0.17     | -0.14    | -0.13       | 0.25           | 451,659.83    | 625,663.39   |  |
| 200.00             | 0.35    | 3.89    | 200.00   | -2,992.30  | 0.65     | -0.25    | -0.24       | 0.24           | 451,660.31    | 625,663.27   |  |
| 300.00             | 0.19    | 351.70  | 300.00   | -2,892.30  | 1.11     | -0.25    | -0.23       | 0.17           | 451,660.78    | 625,663.27   |  |
| 400.00             | 0.22    | 358.43  | 400.00   | -2,792.30  | 1.47     | -0.28    | -0.26       | 0.04           | 451,661.13    | 625,663.24   |  |
| 500.00             | 0.39    | 245.18  | 500.00   | -2,692.30  | 1.52     | -0.60    | -0.57       | 0.52           | 451,661.18    | 625,662.93   |  |
| 600.00             | 0.53    | 226.86  | 599.99   | -2,592.31  | 1.06     | -1.24    | -1.22       | 0.20           | 451,660.72    | 625,662.28   |  |
| 700.00             | 0.33    | 231.12  | 699.99   | -2,492.31  | 0.56     | -1.81    | -1.80       | 0.20           | 451,660.23    | 625,661.72   |  |
| 800.00             | 0.49    | 224.22  | 799.99   | -2,392.31  | 0.08     | -2.33    | -2.33       | 0.17           | 451,659.74    | 625,661.20   |  |
| 900.00             | 0.43    | 215.40  | 899.98   | -2,292.32  | -0.54    | -2.84    | -2.85       | 0.09           | 451,659.13    | 625,660.68   |  |
| 1,000.00           | 0.45    | 193.61  | 999.98   | -2,192.32  | -1.22    | -3.15    | -3.18       | 0.17           | 451,658.44    | 625,660.37   |  |
| 1,100.00           | 0.52    | 191.08  | 1,099.98 | -2,092.32  | -2.05    | -3.33    | -3.37       | 0.07           | 451,657.61    | 625,660.19   |  |
| 1,200.00           | 0.48    | 195.38  | 1,199.97 | -1,992.33  | -2.90    | -3.53    | -3.58       | 0.05           | 451,656.76    | 625,659.99   |  |
| 1,300.00           | 0.59    | 216.42  | 1,299.97 | -1,892.33  | -3.72    | -3.95    | -4.02       | 0.22           | 451,655.95    | 625,659.58   |  |
| 1,400.00           | 0.69    | 219.25  | 1,399.96 | -1,792.34  | -4.60    | -4.63    | -4.72       | 0.10           | 451,655.07    | 625,658.89   |  |
| 1,500.00           | 0.80    | 221.80  | 1,499.95 | -1,692.35  | -5.58    | -5.48    | -5.58       | 0.11           | 451,654.08    | 625,658.04   |  |
| 1,600.00           | 1.00    | 233.17  | 1,599.94 | -1,592.36  | -6.63    | -6.64    | -6.76       | 0.27           | 451,653.04    | 625,656.88   |  |
| 1,700.00           | 0.97    | 244.74  | 1,699.93 | -1,492.37  | -7.51    | -8.11    | -8.24       | 0.20           | 451,652.15    | 625,655.42   |  |
| 1,800.00           | 0.95    | 244.32  | 1,799.91 | -1,392.39  | -8.23    | -9.62    | -9.77       | 0.02           | 451,651.43    | 625,653.90   |  |
| 1,900.00           | 1.06    | 241.47  | 1,899.90 | -1,292.40  | -9.03    | -11.18   | -11.34      | 0.12           | 451,650.63    | 625,652.34   |  |

**Pathfinder Energy Services**  
Pathfinder X & Y Survey Report



**Company:** BOPCO, L.P.  
**Project:** Poker Lake Unit  
**Site:** PLU #265H  
**Well:** #265H  
**Wellbore:** OH  
**Design:** Plan #3

**Local Co-ordinate Reference:** Well #265H  
**TVD Reference:** Well1 @ 3192.30ft (H&P #317 25.1'KB Correction  
**MD Reference:** Well1 @ 3192.30ft (H&P #317 25.1'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) |
|------------|------------|------------|-------------|---------------|-------------|-------------|----------------|-------------------|------------------|-----------------|
| 2,000.00   | 0.75       | 232.01     | 1,999.89    | -1,192.41     | -9.88       | -12.51      | -12.69         | 0.34              | 451,649.79       | 625,651.01      |
| 2,100.00   | 0.20       | 146.22     | 2,099.88    | -1,092.42     | -10.43      | -12.93      | -13.12         | 0.76              | 451,649.24       | 625,650.60      |
| 2,200.00   | 0.30       | 135.29     | 2,199.88    | -992.42       | -10.76      | -12.65      | -12.84         | 0.11              | 451,648.91       | 625,650.88      |
| 2,300.00   | 0.38       | 138.13     | 2,299.88    | -892.42       | -11.19      | -12.24      | -12.44         | 0.08              | 451,648.47       | 625,651.28      |
| 2,400.00   | 0.50       | 151.57     | 2,399.88    | -792.42       | -11.82      | -11.81      | -12.03         | 0.16              | 451,647.84       | 625,651.71      |
| 2,500.00   | 0.72       | 167.92     | 2,499.87    | -692.43       | -12.82      | -11.47      | -11.70         | 0.28              | 451,646.84       | 625,652.05      |
| 2,600.00   | 0.93       | 149.63     | 2,599.86    | -592.44       | -14.13      | -10.93      | -11.19         | 0.33              | 451,645.53       | 625,652.59      |
| 2,700.00   | 1.24       | 115.84     | 2,699.84    | -492.46       | -15.31      | -9.55       | -9.82          | 0.70              | 451,644.36       | 625,653.98      |
| 2,800.00   | 1.28       | 114.66     | 2,799.82    | -392.48       | -16.24      | -7.56       | -7.85          | 0.05              | 451,643.42       | 625,655.97      |
| 2,900.00   | 0.82       | 129.11     | 2,899.80    | -292.50       | -17.16      | -5.99       | -6.30          | 0.53              | 451,642.50       | 625,657.54      |
| 3,000.00   | 0.84       | 128.98     | 2,999.79    | -192.51       | -18.07      | -4.86       | -5.19          | 0.02              | 451,641.59       | 625,658.66      |
| 3,100.00   | 0.84       | 118.92     | 3,099.78    | -92.52        | -18.89      | -3.65       | -3.99          | 0.15              | 451,640.77       | 625,659.87      |
| 3,200.00   | 1.37       | 123.72     | 3,199.76    | 7.46          | -19.91      | -2.02       | -2.38          | 0.54              | 451,639.76       | 625,661.51      |
| 3,300.00   | 0.96       | 131.95     | 3,299.74    | 107.44        | -21.13      | -0.40       | -0.78          | 0.44              | 451,638.53       | 625,663.13      |
| 3,400.00   | 0.56       | 190.84     | 3,399.73    | 207.43        | -22.17      | 0.13        | -0.27          | 0.82              | 451,637.49       | 625,663.66      |
| 3,500.00   | 0.76       | 187.16     | 3,499.73    | 307.43        | -23.31      | -0.04       | -0.47          | 0.20              | 451,636.36       | 625,663.48      |
| 3,600.00   | 0.77       | 195.76     | 3,599.72    | 407.42        | -24.61      | -0.31       | -0.75          | 0.12              | 451,635.05       | 625,663.22      |
| 3,700.00   | 0.72       | 183.48     | 3,699.71    | 507.41        | -25.89      | -0.53       | -1.00          | 0.17              | 451,633.78       | 625,663.00      |
| 3,800.00   | 0.68       | 207.89     | 3,799.70    | 607.40        | -27.04      | -0.84       | -1.34          | 0.30              | 451,632.63       | 625,662.68      |
| 3,900.00   | 0.65       | 199.61     | 3,899.70    | 707.40        | -28.10      | -1.31       | -1.82          | 0.10              | 451,631.57       | 625,662.21      |
| 4,000.00   | 0.40       | 199.69     | 3,999.69    | 807.39        | -28.96      | -1.62       | -2.15          | 0.25              | 451,630.70       | 625,661.90      |
| 4,100.00   | 0.48       | 207.65     | 4,099.69    | 907.39        | -29.66      | -1.93       | -2.47          | 0.10              | 451,630.00       | 625,661.59      |
| 4,200.00   | 0.37       | 182.52     | 4,199.69    | 1,007.39      | -30.35      | -2.14       | -2.69          | 0.21              | 451,629.31       | 625,661.38      |
| 4,300.00   | 0.25       | 232.34     | 4,299.69    | 1,107.39      | -30.81      | -2.33       | -2.89          | 0.28              | 451,628.85       | 625,661.20      |
| 4,400.00   | 0.26       | 209.40     | 4,399.68    | 1,207.38      | -31.14      | -2.61       | -3.18          | 0.10              | 451,628.52       | 625,660.91      |
| 4,500.00   | 0.23       | 258.79     | 4,499.68    | 1,307.38      | -31.38      | -2.92       | -3.49          | 0.21              | 451,628.29       | 625,660.60      |
| 4,600.00   | 0.22       | 221.79     | 4,599.68    | 1,407.38      | -31.56      | -3.24       | -3.82          | 0.14              | 451,628.10       | 625,660.28      |

**Pathfinder Energy Services**  
Pathfinder X & Y Survey Report



**Company:** BOPCO, L.P.  
**Project:** Poker Lake Unit  
**Site:** PLU #265H  
**Well:** #265H  
**Wellbore:** OH  
**Design:** Plan #3

**Local Co-ordinate Reference:** Well #265H  
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**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) |
|------------|------------|------------|-------------|---------------|-------------|-------------|----------------|-------------------|------------------|-----------------|
| 4,700.00   | 0.06       | 293.00     | 4,699.68    | 1,507.38      | -31.68      | -3.42       | -4.00          | 0.21              | 451,627.98       | 625,660.10      |
| 4,800.00   | 0.06       | 344.82     | 4,799.68    | 1,607.38      | -31.61      | -3.48       | -4.06          | 0.05              | 451,628.05       | 625,660.04      |
| 4,900.00   | 0.21       | 41.49      | 4,899.68    | 1,707.38      | -31.42      | -3.37       | -3.95          | 0.18              | 451,628.24       | 625,660.15      |
| 5,000.00   | 0.23       | 23.09      | 4,999.68    | 1,807.38      | -31.10      | -3.17       | -3.74          | 0.07              | 451,628.56       | 625,660.35      |
| 5,100.00   | 0.24       | 122.80     | 5,099.68    | 1,907.38      | -31.03      | -2.92       | -3.48          | 0.36              | 451,628.63       | 625,660.60      |
| 5,200.00   | 0.18       | 117.96     | 5,199.68    | 2,007.38      | -31.22      | -2.60       | -3.17          | 0.06              | 451,628.45       | 625,660.92      |
| 5,300.00   | 0.34       | 150.87     | 5,299.68    | 2,107.38      | -31.55      | -2.32       | -2.90          | 0.21              | 451,628.11       | 625,661.20      |
| 5,400.00   | 0.42       | 141.16     | 5,399.68    | 2,207.38      | -32.10      | -1.95       | -2.53          | 0.10              | 451,627.57       | 625,661.58      |
| 5,500.00   | 0.42       | 172.33     | 5,499.67    | 2,307.37      | -32.74      | -1.67       | -2.26          | 0.23              | 451,626.92       | 625,661.86      |
| 5,600.00   | 0.75       | 179.46     | 5,599.67    | 2,407.37      | -33.76      | -1.61       | -2.23          | 0.34              | 451,625.90       | 625,661.91      |
| 5,700.00   | 0.58       | 172.73     | 5,699.66    | 2,507.36      | -34.92      | -1.54       | -2.18          | 0.19              | 451,624.75       | 625,661.98      |
| 5,800.00   | 0.87       | 172.47     | 5,799.65    | 2,607.35      | -36.17      | -1.38       | -2.04          | 0.29              | 451,623.49       | 625,662.14      |
| 5,900.00   | 0.72       | 176.44     | 5,899.64    | 2,707.34      | -37.55      | -1.24       | -1.92          | 0.16              | 451,622.11       | 625,662.28      |
| 6,000.00   | 0.65       | 174.73     | 5,999.64    | 2,807.34      | -38.74      | -1.15       | -1.85          | 0.07              | 451,620.92       | 625,662.37      |
| 6,100.00   | 0.72       | 163.31     | 6,099.63    | 2,907.33      | -39.91      | -0.92       | -1.64          | 0.15              | 451,619.75       | 625,662.61      |
| 6,200.00   | 0.73       | 166.14     | 6,199.62    | 3,007.32      | -41.13      | -0.58       | -1.33          | 0.04              | 451,618.53       | 625,662.94      |
| 6,300.00   | 0.75       | 173.62     | 6,299.61    | 3,107.31      | -42.40      | -0.36       | -1.13          | 0.10              | 451,617.26       | 625,663.16      |
| 6,400.00   | 0.85       | 175.33     | 6,399.60    | 3,207.30      | -43.79      | -0.23       | -1.02          | 0.10              | 451,615.87       | 625,663.30      |
| 6,500.00   | 0.87       | 179.45     | 6,499.59    | 3,307.29      | -45.29      | -0.16       | -0.98          | 0.06              | 451,614.38       | 625,663.37      |
| 6,600.00   | 0.91       | 181.31     | 6,599.58    | 3,407.28      | -46.84      | -0.17       | -1.02          | 0.05              | 451,612.82       | 625,663.35      |
| 6,700.00   | 0.99       | 181.01     | 6,699.57    | 3,507.27      | -48.50      | -0.20       | -1.09          | 0.08              | 451,611.16       | 625,663.32      |
| 6,800.00   | 1.00       | 179.82     | 6,799.55    | 3,607.25      | -50.24      | -0.22       | -1.13          | 0.02              | 451,609.43       | 625,663.31      |
| 6,900.00   | 1.07       | 176.86     | 6,899.54    | 3,707.24      | -52.04      | -0.16       | -1.11          | 0.09              | 451,607.62       | 625,663.36      |
| 7,000.00   | 1.15       | 180.61     | 6,999.52    | 3,807.22      | -53.98      | -0.12       | -1.10          | 0.11              | 451,605.69       | 625,663.40      |
| 7,100.00   | 1.17       | 189.33     | 7,099.50    | 3,907.20      | -55.99      | -0.30       | -1.32          | 0.18              | 451,603.68       | 625,663.23      |
| 7,200.00   | 0.94       | 195.62     | 7,199.48    | 4,007.18      | -57.78      | -0.68       | -1.73          | 0.26              | 451,601.88       | 625,662.84      |
| 7,300.00   | 0.51       | 183.05     | 7,299.47    | 4,107.17      | -59.02      | -0.93       | -2.00          | 0.46              | 451,600.65       | 625,662.60      |

**Pathfinder Energy Services**  
Pathfinder X & Y Survey Report



**Company:** BOPCO, L.P.  
**Project:** Poker Lake Unit  
**Site:** PLU #265H  
**Well:** #265H  
**Wellbore:** OH  
**Design:** Plan #3

**Local Co-ordinate Reference:** Well #265H  
**TVD Reference:** Well1 @ 3192.30ft (H&P #317 25.1'KB Correction)  
**MD Reference:** Well1 @ 3192.30ft (H&P #317 25.1'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) |
|------------|------------|------------|-------------|---------------|-------------|-------------|----------------|-------------------|------------------|-----------------|
| 7,400.00   | 0.13       | 48.03      | 7,399.47    | 4,207.17      | -59.39      | -0.87       | -1.95          | 0.61              | 451,600.28       | 625,662.66      |
| 7,500.00   | 0.53       | 69.33      | 7,499.47    | 4,307.17      | -59.15      | -0.35       | -1.43          | 0.41              | 451,600.52       | 625,663.17      |
| 7,600.00   | 1.21       | 82.22      | 7,599.46    | 4,407.16      | -58.84      | 1.13        | 0.06           | 0.70              | 451,600.82       | 625,664.65      |
| 7,690.00   | 1.43       | 77.61      | 7,689.43    | 4,497.13      | -58.47      | 3.17        | 2.10           | 0.27              | 451,601.19       | 625,666.69      |
| 7,704.00   | 1.06       | 62.46      | 7,703.43    | 4,511.13      | -58.38      | 3.45        | 2.39           | 3.52              | 451,601.29       | 625,666.98      |
| 7,766.00   | 5.98       | 73.94      | 7,765.29    | 4,572.99      | -57.22      | 7.07        | 6.02           | 7.98              | 451,602.45       | 625,670.59      |
| 7,797.00   | 10.20      | 75.83      | 7,795.98    | 4,603.68      | -56.10      | 11.28       | 10.26          | 13.64             | 451,603.57       | 625,674.81      |
| 7,829.00   | 14.16      | 80.16      | 7,827.25    | 4,634.95      | -54.73      | 17.89       | 16.89          | 12.69             | 451,604.93       | 625,681.41      |
| 7,861.00   | 15.30      | 84.32      | 7,858.20    | 4,665.90      | -53.65      | 25.95       | 24.97          | 4.86              | 451,606.02       | 625,689.47      |
| 7,892.00   | 16.62      | 83.30      | 7,888.01    | 4,695.71      | -52.72      | 34.42       | 33.45          | 4.35              | 451,606.94       | 625,697.94      |
| 7,923.00   | 18.55      | 82.53      | 7,917.56    | 4,725.26      | -51.57      | 43.71       | 42.77          | 6.27              | 451,608.10       | 625,707.24      |
| 7,955.00   | 21.46      | 84.02      | 7,947.62    | 4,755.32      | -50.29      | 54.58       | 53.66          | 9.23              | 451,609.37       | 625,718.11      |
| 7,986.00   | 23.30      | 86.33      | 7,976.29    | 4,783.99      | -49.31      | 66.34       | 65.44          | 6.58              | 451,610.35       | 625,729.87      |
| 8,018.00   | 24.89      | 89.15      | 8,005.50    | 4,813.20      | -48.81      | 79.39       | 78.49          | 6.13              | 451,610.86       | 625,742.92      |
| 8,049.00   | 27.61      | 90.95      | 8,033.30    | 4,841.00      | -48.83      | 93.10       | 92.20          | 9.14              | 451,610.84       | 625,756.63      |
| 8,081.00   | 30.25      | 90.11      | 8,061.30    | 4,869.00      | -48.97      | 108.58      | 107.67         | 8.35              | 451,610.70       | 625,772.10      |
| 8,112.00   | 32.36      | 87.83      | 8,087.79    | 4,895.49      | -48.67      | 124.68      | 123.77         | 7.80              | 451,611.00       | 625,788.20      |
| 8,144.00   | 34.38      | 84.26      | 8,114.51    | 4,922.21      | -47.44      | 142.23      | 141.34         | 8.80              | 451,612.22       | 625,805.76      |
| 8,175.00   | 36.93      | 82.53      | 8,139.70    | 4,947.40      | -45.35      | 160.18      | 159.33         | 8.84              | 451,614.31       | 625,823.70      |
| 8,207.00   | 39.75      | 83.89      | 8,164.80    | 4,972.50      | -43.01      | 179.89      | 179.07         | 9.20              | 451,616.65       | 625,843.41      |
| 8,238.00   | 42.82      | 85.54      | 8,188.09    | 4,995.79      | -41.14      | 200.25      | 199.47         | 10.51             | 451,618.53       | 625,863.77      |
| 8,269.00   | 46.69      | 86.17      | 8,210.10    | 5,017.80      | -39.57      | 222.02      | 221.26         | 12.57             | 451,620.10       | 625,885.54      |
| 8,301.00   | 51.62      | 85.97      | 8,231.02    | 5,038.72      | -37.91      | 246.16      | 245.43         | 15.41             | 451,621.76       | 625,909.68      |
| 8,332.00   | 57.33      | 85.34      | 8,249.03    | 5,056.73      | -35.99      | 271.30      | 270.60         | 18.49             | 451,623.67       | 625,934.83      |
| 8,364.00   | 62.70      | 84.79      | 8,265.02    | 5,072.72      | -33.60      | 298.91      | 298.25         | 16.85             | 451,626.06       | 625,962.43      |
| 8,395.00   | 68.06      | 84.67      | 8,277.93    | 5,085.63      | -31.01      | 326.96      | 326.34         | 17.29             | 451,628.65       | 625,990.48      |
| 8,427.00   | 72.98      | 84.85      | 8,288.59    | 5,096.29      | -28.26      | 356.99      | 356.42         | 15.38             | 451,631.40       | 626,020.52      |

**Pathfinder Energy Services**  
Pathfinder X & Y Survey Report



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**Project:** Poker Lake Unit  
**Site:** PLU #265H  
**Well:** #265H  
**Wellbore:** OH  
**Design:** Plan #3

**Local Co-ordinate Reference:** Well #265H  
**TVD Reference:** Well1 @ 3192.30ft (H&P #317 25.1'KB Correction)  
**MD Reference:** Well1 @ 3192.30ft (H&P #317 25.1'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) |
|---------------------------------------------------------------|------------|------------|-------------|---------------|-------------|-------------|----------------|-------------------|------------------|-----------------|
| 8,458.00                                                      | 78.26      | 84.94      | 8,296.29    | 5,103.99      | -25.59      | 386.89      | 386.36         | 17.03             | 451,634.07       | 626,050.42      |
| 8,540.00                                                      | 89.16      | 83.42      | 8,305.26    | 5,112.96      | -17.33      | 467.85      | 467.46         | 13.42             | 451,642.34       | 626,131.38      |
| 8,634.00                                                      | 90.13      | 83.37      | 8,305.84    | 5,113.54      | -6.51       | 561.23      | 561.02         | 1.03              | 451,653.15       | 626,224.75      |
| 8,665.00                                                      | 90.92      | 83.24      | 8,305.56    | 5,113.26      | -2.90       | 592.01      | 591.86         | 2.58              | 451,656.76       | 626,255.54      |
| 8,697.00                                                      | 92.15      | 82.88      | 8,304.70    | 5,112.40      | 0.96        | 623.77      | 623.68         | 4.00              | 451,660.63       | 626,287.29      |
| 8,761.00                                                      | 92.07      | 82.42      | 8,302.35    | 5,110.05      | 9.15        | 687.20      | 687.25         | 0.73              | 451,668.81       | 626,350.72      |
| 8,855.00                                                      | 91.01      | 83.88      | 8,299.82    | 5,107.52      | 20.35       | 780.49      | 780.73         | 1.92              | 451,680.02       | 626,444.01      |
| 8,951.00                                                      | 91.19      | 84.17      | 8,297.98    | 5,105.68      | 30.34       | 875.95      | 876.36         | 0.36              | 451,690.01       | 626,539.47      |
| 9,046.00                                                      | 91.10      | 84.36      | 8,296.08    | 5,103.78      | 39.84       | 970.46      | 971.02         | 0.22              | 451,699.50       | 626,633.98      |
| 9,140.00                                                      | 86.61      | 85.67      | 8,297.96    | 5,105.66      | 48.00       | 1,064.06    | 1,064.75       | 4.98              | 451,707.66       | 626,727.58      |
| 9,235.00                                                      | 86.35      | 85.53      | 8,303.79    | 5,111.49      | 55.27       | 1,158.60    | 1,159.41       | 0.31              | 451,714.94       | 626,822.12      |
| 9,330.00                                                      | 88.29      | 85.79      | 8,308.23    | 5,115.93      | 62.46       | 1,253.22    | 1,254.15       | 2.06              | 451,722.12       | 626,916.74      |
| 9,425.00                                                      | 89.34      | 85.79      | 8,310.20    | 5,117.90      | 69.43       | 1,347.94    | 1,348.98       | 1.11              | 451,729.09       | 627,011.46      |
| 9,520.00                                                      | 89.25      | 85.16      | 8,311.36    | 5,119.06      | 76.92       | 1,442.63    | 1,443.80       | 0.67              | 451,736.59       | 627,106.16      |
| 9,615.00                                                      | 90.04      | 83.94      | 8,311.95    | 5,119.65      | 85.95       | 1,537.20    | 1,538.51       | 1.53              | 451,745.61       | 627,200.72      |
| 9,711.00                                                      | 90.66      | 84.02      | 8,311.37    | 5,119.07      | 96.01       | 1,632.67    | 1,634.15       | 0.65              | 451,755.68       | 627,296.19      |
| 9,837.00                                                      | 91.19      | 85.62      | 8,309.33    | 5,117.03      | 107.39      | 1,758.13    | 1,759.80       | 1.34              | 451,767.05       | 627,421.66      |
| <b>TIE IN PT - 9837.00°MD,91.19°INC,85.62°AZI,8309.33°TVD</b> |            |            |             |               |             |             |                |                   |                  |                 |
| 9,900.00                                                      | 90.75      | 86.80      | 8,308.27    | 5,115.97      | 111.55      | 1,820.99    | 1,822.71       | 2.00              | 451,771.21       | 627,484.51      |
| 10,000.00                                                     | 90.05      | 88.68      | 8,307.57    | 5,115.27      | 115.50      | 1,920.90    | 1,922.68       | 2.00              | 451,775.16       | 627,584.42      |
| 10,067.23                                                     | 89.58      | 89.94      | 8,307.78    | 5,115.48      | 116.31      | 1,988.13    | 1,989.91       | 2.00              | 451,775.98       | 627,651.65      |
| <b>Build to 10067.23 °MD,89.58° INC,89.94°AZI,2.00° DLS</b>   |            |            |             |               |             |             |                |                   |                  |                 |
| 10,100.00                                                     | 89.58      | 89.94      | 8,308.02    | 5,115.72      | 116.35      | 2,020.89    | 2,022.68       | 0.00              | 451,776.01       | 627,684.42      |
| 10,200.00                                                     | 89.58      | 89.94      | 8,308.75    | 5,116.45      | 116.46      | 2,120.89    | 2,122.66       | 0.00              | 451,776.13       | 627,784.41      |
| 10,300.00                                                     | 89.58      | 89.94      | 8,309.48    | 5,117.18      | 116.58      | 2,220.89    | 2,222.64       | 0.00              | 451,776.24       | 627,884.41      |
| 10,400.00                                                     | 89.58      | 89.94      | 8,310.21    | 5,117.91      | 116.69      | 2,320.88    | 2,322.62       | 0.00              | 451,776.35       | 627,984.41      |
| 10,500.00                                                     | 89.58      | 89.94      | 8,310.93    | 5,118.63      | 116.80      | 2,420.88    | 2,422.61       | 0.00              | 451,776.47       | 628,084.41      |

**Pathfinder Energy Services**  
Pathfinder X & Y Survey Report



**Company:** BOPCO, L.P.  
**Project:** Poker Lake Unit  
**Site:** PLU #265H  
**Well:** #265H  
**Wellbore:** OH  
**Design:** Plan #3

**Local Co-ordinate Reference:** Well #265H  
**TVD Reference:** Well1 @ 3192.30ft (H&P #317 25.1'KB Correction)  
**MD Reference:** Well1 @ 3192.30ft (H&P #317 25.1'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) |
|------------|------------|------------|-------------|---------------|-------------|-------------|----------------|-------------------|------------------|-----------------|
| 10,600.00  | 89.58      | 89.94      | 8,311.66    | 5,119.36      | 116.92      | 2,520.88    | 2,522.59       | 0.00              | 451,776.58       | 628,184.40      |
| 10,700.00  | 89.58      | 89.94      | 8,312.39    | 5,120.09      | 117.03      | 2,620.88    | 2,622.57       | 0.00              | 451,776.69       | 628,284.40      |
| 10,800.00  | 89.58      | 89.94      | 8,313.12    | 5,120.82      | 117.14      | 2,720.87    | 2,722.55       | 0.00              | 451,776.81       | 628,384.40      |
| 10,900.00  | 89.58      | 89.94      | 8,313.85    | 5,121.55      | 117.25      | 2,820.87    | 2,822.54       | 0.00              | 451,776.92       | 628,484.39      |
| 11,000.00  | 89.58      | 89.94      | 8,314.58    | 5,122.28      | 117.37      | 2,920.87    | 2,922.52       | 0.00              | 451,777.03       | 628,584.39      |
| 11,100.00  | 89.58      | 89.94      | 8,315.31    | 5,123.01      | 117.48      | 3,020.87    | 3,022.50       | 0.00              | 451,777.15       | 628,684.39      |
| 11,200.00  | 89.58      | 89.94      | 8,316.04    | 5,123.74      | 117.59      | 3,120.86    | 3,122.49       | 0.00              | 451,777.26       | 628,784.39      |
| 11,300.00  | 89.58      | 89.94      | 8,316.77    | 5,124.47      | 117.71      | 3,220.86    | 3,222.47       | 0.00              | 451,777.37       | 628,884.38      |
| 11,400.00  | 89.58      | 89.94      | 8,317.50    | 5,125.20      | 117.82      | 3,320.86    | 3,322.45       | 0.00              | 451,777.48       | 628,984.38      |
| 11,500.00  | 89.58      | 89.94      | 8,318.22    | 5,125.92      | 117.93      | 3,420.85    | 3,422.43       | 0.00              | 451,777.60       | 629,084.38      |
| 11,600.00  | 89.58      | 89.94      | 8,318.95    | 5,126.65      | 118.05      | 3,520.85    | 3,522.42       | 0.00              | 451,777.71       | 629,184.38      |
| 11,700.00  | 89.58      | 89.94      | 8,319.68    | 5,127.38      | 118.16      | 3,620.85    | 3,622.40       | 0.00              | 451,777.82       | 629,284.37      |
| 11,800.00  | 89.58      | 89.94      | 8,320.41    | 5,128.11      | 118.27      | 3,720.85    | 3,722.38       | 0.00              | 451,777.94       | 629,384.37      |
| 11,900.00  | 89.58      | 89.94      | 8,321.14    | 5,128.84      | 118.39      | 3,820.84    | 3,822.37       | 0.00              | 451,778.05       | 629,484.37      |
| 12,000.00  | 89.58      | 89.94      | 8,321.87    | 5,129.57      | 118.50      | 3,920.84    | 3,922.35       | 0.00              | 451,778.16       | 629,584.36      |
| 12,100.00  | 89.58      | 89.94      | 8,322.60    | 5,130.30      | 118.61      | 4,020.84    | 4,022.33       | 0.00              | 451,778.28       | 629,684.36      |
| 12,200.00  | 89.58      | 89.94      | 8,323.33    | 5,131.03      | 118.73      | 4,120.84    | 4,122.31       | 0.00              | 451,778.39       | 629,784.36      |
| 12,300.00  | 89.58      | 89.94      | 8,324.06    | 5,131.76      | 118.84      | 4,220.83    | 4,222.30       | 0.00              | 451,778.50       | 629,884.36      |
| 12,400.00  | 89.58      | 89.94      | 8,324.79    | 5,132.49      | 118.95      | 4,320.83    | 4,322.28       | 0.00              | 451,778.62       | 629,984.35      |
| 12,500.00  | 89.58      | 89.94      | 8,325.51    | 5,133.21      | 119.07      | 4,420.83    | 4,422.26       | 0.00              | 451,778.73       | 630,084.35      |
| 12,600.00  | 89.58      | 89.94      | 8,326.24    | 5,133.94      | 119.18      | 4,520.82    | 4,522.24       | 0.00              | 451,778.84       | 630,184.35      |
| 12,700.00  | 89.58      | 89.94      | 8,326.97    | 5,134.67      | 119.29      | 4,620.82    | 4,622.23       | 0.00              | 451,778.96       | 630,284.35      |
| 12,800.00  | 89.58      | 89.94      | 8,327.70    | 5,135.40      | 119.41      | 4,720.82    | 4,722.21       | 0.00              | 451,779.07       | 630,384.34      |
| 12,900.00  | 89.58      | 89.94      | 8,328.43    | 5,136.13      | 119.52      | 4,820.82    | 4,822.19       | 0.00              | 451,779.18       | 630,484.34      |
| 13,000.00  | 89.58      | 89.94      | 8,329.16    | 5,136.86      | 119.63      | 4,920.81    | 4,922.18       | 0.00              | 451,779.30       | 630,584.34      |
| 13,100.00  | 89.58      | 89.94      | 8,329.89    | 5,137.59      | 119.75      | 5,020.81    | 5,022.16       | 0.00              | 451,779.41       | 630,684.33      |
| 13,200.00  | 89.58      | 89.94      | 8,330.62    | 5,138.32      | 119.86      | 5,120.81    | 5,122.14       | 0.00              | 451,779.52       | 630,784.33      |

**Pathfinder Energy Services**  
Pathfinder X & Y Survey Report



**Company:** BOPCO, L.P.  
**Project:** Poker Lake Unit  
**Site:** PLU #265H  
**Well:** #265H  
**Wellbore:** OH  
**Design:** Plan #3

**Local Co-ordinate Reference:** Well #265H  
**TVD Reference:** Well1 @ 3192.30ft (H&P #317 25.1'KB Correction)  
**MD Reference:** Well1 @ 3192.30ft (H&P #317 25.1'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) | TVDS<br>(ft) | N/S<br>(ft) | E/W<br>(ft) | V. Sec<br>(ft) | DLeg<br>(°/100ft) | Northing<br>(ft) | Easting<br>(ft) |
|------------|------------|------------|-------------|--------------|-------------|-------------|----------------|-------------------|------------------|-----------------|
| 13,300.00  | 89.58      | 89.94      | 8,331.35    | 5,139.05     | 119.97      | 5,220.81    | 5,222.12       | 0.00              | 451,779.64       | 630,884.33      |
| 13,400.00  | 89.58      | 89.94      | 8,332.08    | 5,139.78     | 120.09      | 5,320.80    | 5,322.11       | 0.00              | 451,779.75       | 630,984.33      |
| 13,500.00  | 89.58      | 89.94      | 8,332.81    | 5,140.51     | 120.20      | 5,420.80    | 5,422.09       | 0.00              | 451,779.86       | 631,084.32      |
| 13,600.00  | 89.58      | 89.94      | 8,333.53    | 5,141.23     | 120.31      | 5,520.80    | 5,522.07       | 0.00              | 451,779.98       | 631,184.32      |
| 13,700.00  | 89.58      | 89.94      | 8,334.26    | 5,141.96     | 120.43      | 5,620.79    | 5,622.06       | 0.00              | 451,780.09       | 631,284.32      |
| 13,800.00  | 89.58      | 89.94      | 8,334.99    | 5,142.69     | 120.54      | 5,720.79    | 5,722.04       | 0.00              | 451,780.20       | 631,384.32      |
| 13,900.00  | 89.58      | 89.94      | 8,335.72    | 5,143.42     | 120.65      | 5,820.79    | 5,822.02       | 0.00              | 451,780.32       | 631,484.31      |
| 14,000.00  | 89.58      | 89.94      | 8,336.45    | 5,144.15     | 120.76      | 5,920.79    | 5,922.00       | 0.00              | 451,780.43       | 631,584.31      |
| 14,100.00  | 89.58      | 89.94      | 8,337.18    | 5,144.88     | 120.88      | 6,020.78    | 6,021.99       | 0.00              | 451,780.54       | 631,684.31      |
| 14,200.00  | 89.58      | 89.94      | 8,337.91    | 5,145.61     | 120.99      | 6,120.78    | 6,121.97       | 0.00              | 451,780.66       | 631,784.30      |
| 14,300.00  | 89.58      | 89.94      | 8,338.64    | 5,146.34     | 121.10      | 6,220.78    | 6,221.95       | 0.00              | 451,780.77       | 631,884.30      |
| 14,400.00  | 89.58      | 89.94      | 8,339.37    | 5,147.07     | 121.22      | 6,320.78    | 6,321.93       | 0.00              | 451,780.88       | 631,984.30      |
| 14,500.00  | 89.58      | 89.94      | 8,340.10    | 5,147.80     | 121.33      | 6,420.77    | 6,421.92       | 0.00              | 451,781.00       | 632,084.30      |
| 14,600.00  | 89.58      | 89.94      | 8,340.82    | 5,148.52     | 121.44      | 6,520.77    | 6,521.90       | 0.00              | 451,781.11       | 632,184.29      |
| 14,700.00  | 89.58      | 89.94      | 8,341.55    | 5,149.25     | 121.56      | 6,620.77    | 6,621.88       | 0.00              | 451,781.22       | 632,284.29      |
| 14,761.28  | 89.58      | 89.94      | 8,342.00    | 5,149.70     | 121.63      | 6,682.05    | 6,683.15       | 0.00              | 451,781.29       | 632,345.57      |

BHL-14761.28'MD,89.58°INC,89.94°AZI, 8342.00'TVD, 6683.15'VS, 121.63°N, 6682.05'E - PBHL (#265H)

**Pathfinder Energy Services**  
Pathfinder X & Y Survey Report



Company: BOPCO, L.P  
Project: Poker Lake Unit  
Site: PLU #265H  
Well: #265H  
Wellbore: OH  
Design: Plan #3

Local Co-ordinate Reference: Well #265H  
TVD Reference: Well1 @ 3192.30ft (H&P #317 25.1'KB Correction  
MD Reference: Well1 @ 3192.30ft (H&P #317 25.1'KB Correction  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature  
Database: Midland Database

**Targets**

| Target Name<br>- hit/miss target<br>- Shape                                      | Dip Angle<br>(°) | Dip Dir.<br>(°) | TVD<br>(ft) | +N/-S<br>(ft) | +E/-W<br>(ft) | Northing<br>(ft) | Easting<br>(ft) | Latitude         | Longitude         |
|----------------------------------------------------------------------------------|------------------|-----------------|-------------|---------------|---------------|------------------|-----------------|------------------|-------------------|
| 400' Window<br>- plan hits target<br>- Rectangle (sides W6,683.00 H400.00 D0.00) | 0.00             | 0.00            | 0.00        | 0.00          | 0.00          | 451,659.664      | 625,663.524     | 32° 14' 27.873 N | 103° 55' 36.821 W |
| PBHL (#265H)<br>- plan hits target<br>- Point                                    | 0.00             | 359.93          | 8,342.00    | 121.63        | 6,682.05      | 451,781.291      | 632,345.573     | 32° 14' 28.820 N | 103° 54' 19.014 W |

**Formations**

| Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Name            | Lithology | Dip<br>(°) | Dip Direction<br>(°) |
|------------------------|------------------------|-----------------|-----------|------------|----------------------|
| 8,343.54               | 8,252.25               | Top TGT Form    |           | 0.58       | 89.94                |
| 8,457.36               | 8,292.25               | Bottom TGT Form |           | 0.58       | 89.94                |

**Plan Annotations**

| Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Local Coordinates |               | Comment                                                          |
|------------------------|------------------------|-------------------|---------------|------------------------------------------------------------------|
|                        |                        | +N/-S<br>(ft)     | +E/-W<br>(ft) |                                                                  |
| 9,837.00               | 8,309.33               | 107.39            | 1,758.13      | TIE IN PT - 9837.00'MD,91.19°INC,85.62°AZI,8309.33'TVD           |
| 10,067.23              | 8,307.78               | 116.31            | 1,988.13      | Build to 10067.23 'MD,89.58° INC,89.94°AZI,2.00° DLS             |
| 14,761.28              | 8,342.00               | 121.63            | 6,682.05      | BHL-14761.28'MD,89.58°INC,89.94°AZI, 8342.00'TVD, 6683.15'VS, 12 |

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

# BOPCO, L.P.



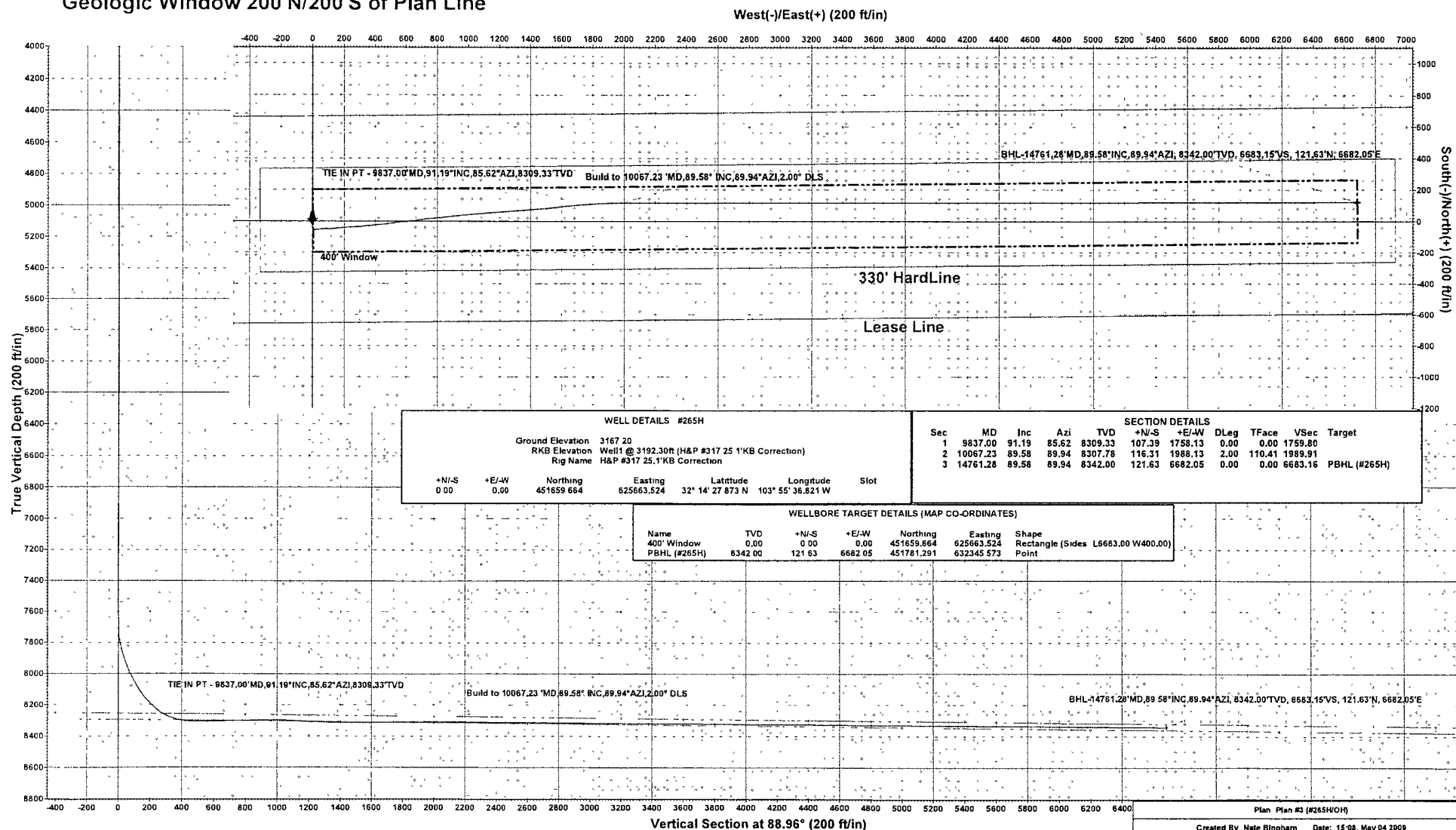
Azimuths to Grid North  
 True North: -0.22°  
 Magnetic North: 7.85°  
 Magnetic Field  
 Strength: 48847.5nT  
 Dip Angle: 60.19°  
 Date: 03/25/2009  
 Model: IGRF200510

PROJECT DETAILS: Poker Lake Unit  
 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

## PATHFINDER

Project: Poker Lake Unit  
 Site: PLU #265H  
 Well: #265H  
 Wellbore: OH  
 Plan: Plan #3 (#265H/OH)

40' TVD Drill Window  
 Drill Window 20' TVD Above/20' TVD Below of Plan Line  
 400' Geological Window N/S  
 Geologic Window 200'N/200'S of Plan Line



**Poker Lake Unit 265H  
30-015-35614  
BOPCO, L. P.  
May 9, 2009  
Conditions of Approval**

- 1. Plat does not agree with top view from directional plan. Correct plat will be required with Completion Report reflecting actual penetration point and bottom hole location (BHL). Correct BHL to be noted on Completion Report in well location section.**
- 2. Well will require a commercial well determination.**
- 3. If well is commercial, submit request for a Bone Spring Participating Area.**

**WWI 050909**