

PTGW

|                  |          |              |                    |          |                    |
|------------------|----------|--------------|--------------------|----------|--------------------|
| DATE IN 12.14.11 | SUSPENSE | ENGINEER DKB | LOGGED IN 12.14.11 | TYPE NSL | APP NO. 1134831197 |
|------------------|----------|--------------|--------------------|----------|--------------------|

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION  
- Engineering Bureau -  
1220 South St. Francis Drive, Santa Fe, NM 87505



Devon 6137

Rigid 20" Fed Com 4H

**ADMINISTRATIVE APPLICATION CHECKLIST**

30-015-39721

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

6536

L-20-195-31E

**Application Acronyms:**

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]  
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]  
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]  
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]  
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]  
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]

- [A] Location - Spacing Unit - Simultaneous Dedication  
☒ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

- [B] Commingling - Storage - Measurement  
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

- [D] Other: Specify \_\_\_\_\_

[2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or Does Not Apply

- [A] ☐ Working, Royalty or Overriding Royalty Interest Owners  
[B] ☐ Offset Operators, Leaseholders or Surface Owner  
[C] ☐ Application is One Which Requires Published Legal Notice  
[D] ☐ Notification and/or Concurrent Approval by BLM or SLO  
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office  
[E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,  
[F] ☐ Waivers are Attached

[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

James Bruce  
P.O. Box 1056  
Santa Fe, New Mexico 87504

Signature

Title

Date

e-mail Address

James Bruce  
Attorney  
jamesbruce@aol.com

12/13/11

RECEIVED OGD  
21 DEC 13 P 4:16

**JAMES BRUCE**  
ATTORNEY AT LAW

POST OFFICE BOX 1056  
SANTA FE, NEW MEXICO 87504

369 MONTEZUMA, NO. 213  
SANTA FE, NEW MEXICO 87501

(505) 982-2043 (Phone)  
(505) 660-6612 (Cell)  
(505) 982-2151 (Fax)

jamesbruc@aol.com

December 13, 2011

David K. Brooks  
Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

Dear Mr. Brooks:

Pursuant to Division Rule NMAC 19.15.15.13, Devon Energy Production Company, L.P. applies for approval of an unorthodox oil well location for the following well:

|                                  |                                                                                                                       |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| <u>Well:</u>                     | Rigel 20 Fed. Com. Well No. 4H                                                                                        |
| <u>Surface location:</u>         | 1750 feet FSL & 330 feet FWL                                                                                          |
| <u>Penetration point:</u>        | Same as surface location                                                                                              |
| <u>Bottom hole location:</u>     | 400 feet FSL & 330 feet FEL                                                                                           |
| <u>Well unit (project area):</u> | S $\frac{1}{2}$ S $\frac{1}{2}$ of Section 20, Township 19 South, Range 31 East,<br>N.M.P.M., Eddy County, New Mexico |

Applicant proposes to drill the well to test the Bone Spring formation (Northwest Hackberry-Bone Spring Pool). The pool is spaced on 40 acres, with wells to be located no closer than 330 feet to a quarter-quarter section line. A Form C-102 is attached as **Exhibit A**. A drilling plan is attached as **Exhibit B**.

The surface location is unorthodox because applicant is attempting to minimize surface use and reduce costs by using the same drilling pad for this well and the Rigel 20 Fed. Com. Well No. 3H (with a N $\frac{1}{2}$ S $\frac{1}{2}$  of Section 20 well unit). In addition, placing the well at the requested surface location avoids a caliche pit in the SW $\frac{1}{4}$ SW $\frac{1}{4}$  of Section 20. **Exhibit C. The producing interval will be no farther than 990 feet FSL of Section 20.**

The well encroaches on the N $\frac{1}{2}$ SW $\frac{1}{4}$  of Section 20. However, the entire SW $\frac{1}{4}$  of Section 20 is covered by Federal Lease LC 063642-A, which has common ownership. **Exhibit D.** The well will not be nearer than 330 feet to offsetting Section 19, Township 19 South, Range 31 East,

N.M.P.M., covered by federal Lease NM 30534 (**Exhibit E**), so notice was not given to the west offsets.

Please contact me if you need any further information on this application.

Very truly yours,

James Bruce

Attorney for Devon Energy Production Company, L.P.

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

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

Form C-102  
Revised October 15, 2009  
Submit one copy to appropriate  
District Office

☐ AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

|                            |  |                                                                 |  |                                             |  |
|----------------------------|--|-----------------------------------------------------------------|--|---------------------------------------------|--|
| 1 API Number               |  | 2 Pool Code                                                     |  | 3 Pool Name<br><i>under NW Hackberry BS</i> |  |
| 4 Property Code            |  | 5 Property Name<br><b>RIGEL "20" FEDERAL COM</b>                |  | 6 Well Number<br><b>4H</b>                  |  |
| 7 OGRID No.<br><b>6137</b> |  | 8 Operator Name<br><b>DEVON ENERGY PRODUCTION COMPANY, L.P.</b> |  | 9 Elevation<br><b>3406.2</b>                |  |

**10 Surface Location**

| UL or lot no. | Section   | Township    | Range       | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County      |
|---------------|-----------|-------------|-------------|---------|---------------|------------------|---------------|----------------|-------------|
| <b>L</b>      | <b>20</b> | <b>19 S</b> | <b>31 E</b> |         | <b>1750</b>   | <b>SOUTH</b>     | <b>330</b>    | <b>WEST</b>    | <b>EDDY</b> |

**11 Bottom Hole Location If Different From Surface**

| UL or lot no. | Section   | Township    | Range       | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County      |
|---------------|-----------|-------------|-------------|---------|---------------|------------------|---------------|----------------|-------------|
| <b>P</b>      | <b>20</b> | <b>19 S</b> | <b>31 E</b> |         | <b>400</b>    | <b>SOUTH</b>     | <b>330</b>    | <b>EAST</b>    | <b>EDDY</b> |

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

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

|                                                                                                                                                                         |  |                                                                                                                                     |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>NW CORNER SEC. 20</b><br>LAT. = 32.6531466°N<br>LONG. = 103.9000219°W<br><b>NMSP EAST (FT)</b><br>N = 601617.81<br>E = 674698.51                                     |  | <b>NE CORNER SEC. 20</b><br>LAT. = 32.6531668°N<br>LONG. = 103.8828786°W<br><b>NMSP EAST (FT)</b><br>N = 601647.09<br>E = 679974.74 |  |
| <b>RIGEL "20" FEDERAL COM #4H</b><br>ELEV. = 3406.2'<br>LAT. = 32.6434407°N (NAD83)<br>LONG. = 103.8989157°W<br><b>NMSP EAST (FT)</b><br>N = 598088.09<br>E = 675053.41 |  |                                                                                                                                     |  |
| <b>SURFACE LOCATION</b><br>330'                                                                                                                                         |  | <b>SE CORNER SEC. 20</b><br>LAT. = 32.6386571°N<br>LONG. = 103.8828182°W<br><b>NMSP EAST (FT)</b><br>N = 596368.40<br>E = 680015.72 |  |
| <b>SW CORNER SEC. 20</b><br>LAT. = 32.6386301°N<br>LONG. = 103.8999687°W<br><b>NMSP EAST (FT)</b><br>N = 596336.61<br>E = 674736.43                                     |  | <b>BOTTOM OF HOLE</b><br>LAT. = 32.6397544°N<br>LONG. = 103.8838934°W<br><b>NMSP EAST (FT)</b><br>N = 596766.21<br>E = 679683.06    |  |
| 1750'                                                                                                                                                                   |  | <b>BOTTOM OF HOLE</b><br>330' 400'                                                                                                  |  |

**17 OPERATOR CERTIFICATION**  
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature \_\_\_\_\_ Date \_\_\_\_\_  
Printed Name \_\_\_\_\_

**18 SURVEYOR CERTIFICATION**  
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my belief.  
AUGUST 11, 2011  
Date of Survey  
Signature and Seal of Professional Surveyor  
Certificate Number: 11140NP JARAMILLO, PLS 12797  
SURVEY NO. 539

EXHIBIT

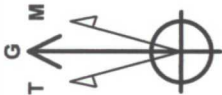
**A**





Project: Eddy County  
Site: Rigel 20 Federal Com  
Well: 4H  
Plan: Plan #1 (4H/OH)

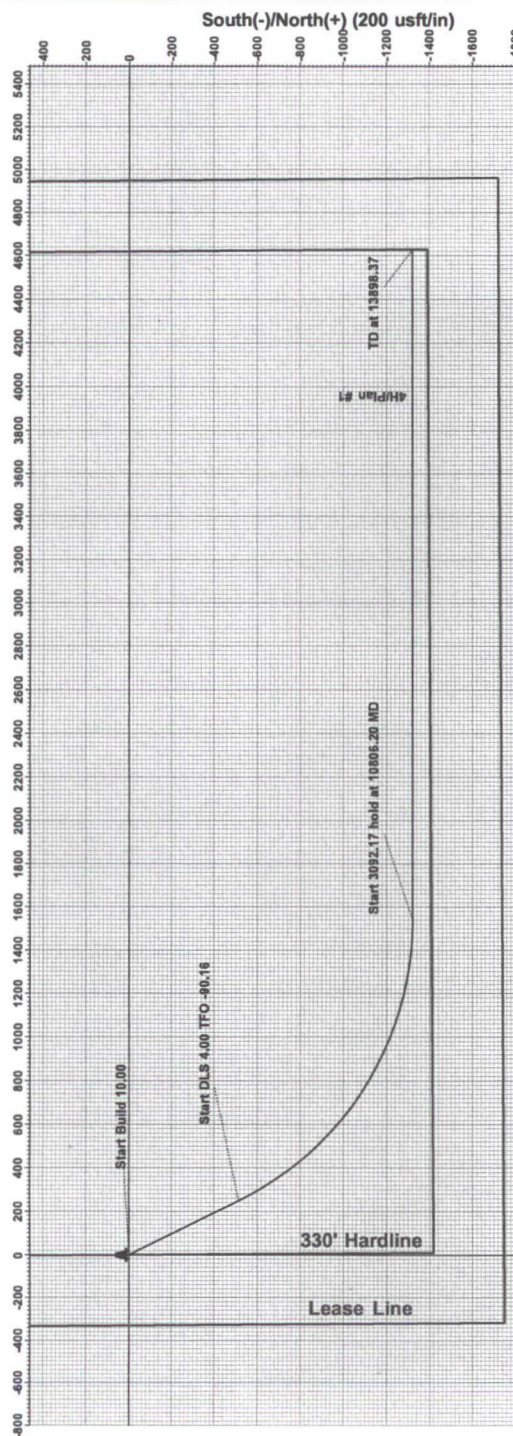
PROJECT DETAILS: Eddy County  
Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: New Mexico Eastern Zone  
System Datum: Mean Sea Level  
Local North: Grid



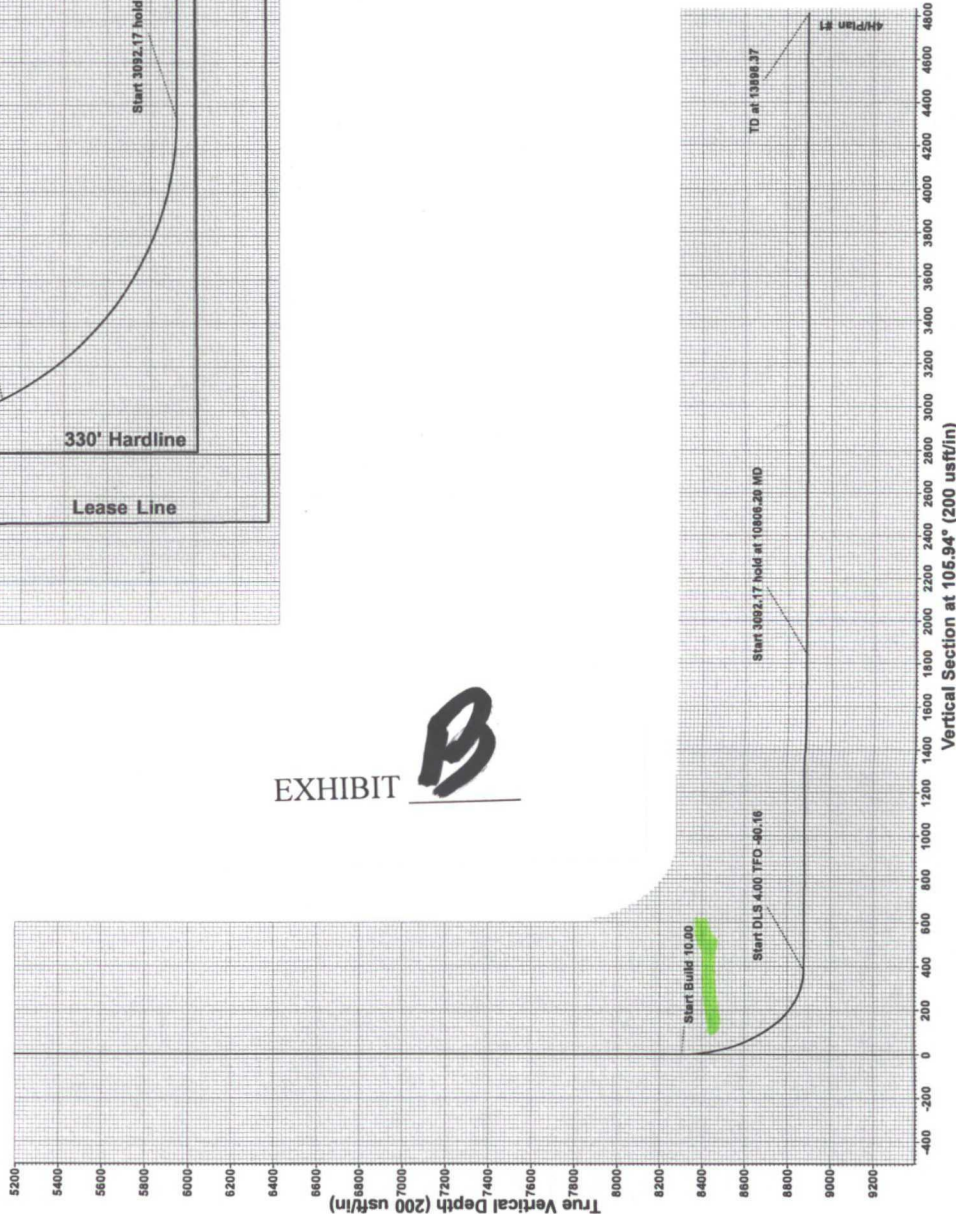
Azimuths to Grid North  
True North:  $-0.23^\circ$   
Magnetic North:  $7.50^\circ$   
Magnetic Field  
Strength: 48849.4nT  
Dip Angle:  $60.54^\circ$   
Date: 8/29/2011  
Model: IGRF200510

**PATHFINDER<sup>®</sup>**  
A Schlumberger Company

West(-)/East(+) (200 usft/in)



EXHIBIT



SECTION DETAILS

| Sec | MD       | Inc   | Azi     | TVD     | +N-S     | +E-W    | Dleg  | TFace  | Vsect   | Target   |
|-----|----------|-------|---------|---------|----------|---------|-------|--------|---------|----------|
| 1   | 0.00     | 0.00  | 0.00    | 0.00    | 0.00     | 0.00    | 0.00  | 0.00   | 0.00    |          |
| 2   | 8305.05  | 0.00  | 8305.05 | 0.00    | 0.00     | 0.00    | 0.00  | 0.00   | 0.00    |          |
| 3   | 8202.45  | 89.74 | 154.16  | 8878.00 | -513.33  | 248.60  | 10.00 | 154.16 | 380.01  | PBHL(4H) |
| 4   | 10895.20 | 89.74 | 90.01   | 8886.15 | -1321.38 | 1537.31 | 4.00  | -90.16 | 1841.28 | PBHL(4H) |
| 5   | 13898.37 | 89.74 | 90.01   | 8900.16 | -1321.89 | 4629.85 | 0.00  | 0.00   | 4814.67 | PBHL(4H) |

WELL DETAILS: 4H

Ground Elevation: 3406.20  
RKB Elevation: KB = 25.2 @ 3432.40usft (H&P 300)  
Rig Name: H&P 300

| +N-S | +E-W | North      | East       | Latitude          | Longitude          | Slot |
|------|------|------------|------------|-------------------|--------------------|------|
| 0.00 | 0.00 | 598086.000 | 675953.410 | 32° 38' 36.367" N | 103° 53' 55.097" W |      |

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

| Name     | TVD     | +N-S     | +E-W    | North      | East       | Shape |
|----------|---------|----------|---------|------------|------------|-------|
| PBHL(4H) | 8900.00 | -1321.88 | 4629.85 | 598765.210 | 679683.000 | Point |

Plan: Plan #1 (4H/OH)

Created By: Sam Bille

Date: 17:57, August 29 2011

Checked:

Date:



**Devon Energy, Inc.**

**Eddy County**

**Rigel 20 Federal Com**

**4H**

**OH**

**Plan: Plan #1**

**Pathfinder X & Y Report**

**29 August, 2011**

# Pathfinder

## Pathfinder X & Y Report

**Company:** Devon Energy, Inc.  
**Project:** Eddy County  
**Site:** Rigel 20 Federal Com  
**Well:** 4H  
**Wellbore:** OH  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well 4H  
**TVD Reference:** KB = 26.2 @ 3432.40usft (H&P 300)  
**MD Reference:** KB = 26.2 @ 3432.40usft (H&P 300)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 5000.1 Single User Db

**Project:** Eddy County  
**Map System:** US State Plane 1983  
**Geo Datum:** North American Datum 1983  
**Map Zone:** New Mexico Eastern Zone

**System Datum:** Mean Sea Level

**Site:** Rigel 20 Federal Com

**Site Position:** Northing: 598,138.050 usft Latitude: 32° 38' 36.881 N  
 Easting: 675,052.990 usft Longitude: 103° 53' 56.099 W  
**Position Uncertainty:** Slot Radius: 13-3/16 " Grid Convergence: 0.23 °

**Well:** 4H

**Well Position:** Northing: 598,088.090 usft Latitude: 32° 38' 36.387 N  
 Easting: 675,053.410 usft Longitude: 103° 53' 56.097 W  
**Position Uncertainty:** Wellhead Elevation: usft Ground Level: 3,406.20 usft

**Wellbore:** OH

**Magnetics:** Model Name: IGRF200510 Sample Date: 8/29/2011  
 Declination (°): 7.73 Dip Angle (°): 60.54 Field Strength (nT): 48,849

**Design:** Plan #1

**Audit Notes:**

**Version:** Phase: PROTOTYPE Tie On Depth: 0.00

**Vertical Section:** Depth From (TVD) (usft): 0.00  
 +N/S (usft): 0.00 +E/W (usft): 0.00 Direction (°): 105.94

**Survey Tool Program:** Date: 8/29/2011

**From (usft):** 0.00 **To (usft):** 13,897.58 **Survey (Wellbore):** Plan #1 (OH) **Tool Name:** Pathfinder **Description:** Pathfinder MWD

# Pathfinder

## Pathfinder X & Y Report

|           |                      |                              |                                   |
|-----------|----------------------|------------------------------|-----------------------------------|
| Company:  | Devon Energy, Inc.   | Local Co-ordinate Reference: | Well 4H                           |
| Project:  | Eddy County          | TVD Reference:               | KB = 26.2 @ 3432.40usft (H&P 300) |
| Site:     | Rigel 20 Federal Com | MD Reference:                | KB = 26.2 @ 3432.40usft (H&P 300) |
| Well:     | 4H                   | North Reference:             | Grid                              |
| Wellbore: | OH                   | Survey Calculation Method:   | Minimum Curvature                 |
| Design:   | Plan #1              | Database:                    | EDM 5000.1 Single User Db         |

| Planned Survey |            |                      |               |                 |               |               |                  |                    |                    |                   |
|----------------|------------|----------------------|---------------|-----------------|---------------|---------------|------------------|--------------------|--------------------|-------------------|
| MD<br>(usft)   | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | TVDSS<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | V. Sec<br>(usft) | DLeg<br>(7100usft) | Northing<br>(usft) | Easting<br>(usft) |
| 0.00           | 0.00       | 0.00                 | 0.00          | -3,432.40       | 0.00          | 0.00          | 0.00             | 0.00               | 598,088.09         | 675,053.41        |
| 50.00          | 0.00       | 0.00                 | 50.00         | -3,382.40       | 0.00          | 0.00          | 0.00             | 0.00               | 598,088.09         | 675,053.41        |
| 100.00         | 0.00       | 0.00                 | 100.00        | -3,332.40       | 0.00          | 0.00          | 0.00             | 0.00               | 598,088.09         | 675,053.41        |
| 150.00         | 0.00       | 0.00                 | 150.00        | -3,282.40       | 0.00          | 0.00          | 0.00             | 0.00               | 598,088.09         | 675,053.41        |
| 200.00         | 0.00       | 0.00                 | 200.00        | -3,232.40       | 0.00          | 0.00          | 0.00             | 0.00               | 598,088.09         | 675,053.41        |
| 250.00         | 0.00       | 0.00                 | 250.00        | -3,182.40       | 0.00          | 0.00          | 0.00             | 0.00               | 598,088.09         | 675,053.41        |
| 300.00         | 0.00       | 0.00                 | 300.00        | -3,132.40       | 0.00          | 0.00          | 0.00             | 0.00               | 598,088.09         | 675,053.41        |
| 350.00         | 0.00       | 0.00                 | 350.00        | -3,082.40       | 0.00          | 0.00          | 0.00             | 0.00               | 598,088.09         | 675,053.41        |
| 400.00         | 0.00       | 0.00                 | 400.00        | -3,032.40       | 0.00          | 0.00          | 0.00             | 0.00               | 598,088.09         | 675,053.41        |
| 450.00         | 0.00       | 0.00                 | 450.00        | -2,982.40       | 0.00          | 0.00          | 0.00             | 0.00               | 598,088.09         | 675,053.41        |
| 500.00         | 0.00       | 0.00                 | 500.00        | -2,932.40       | 0.00          | 0.00          | 0.00             | 0.00               | 598,088.09         | 675,053.41        |
| 550.00         | 0.00       | 0.00                 | 550.00        | -2,882.40       | 0.00          | 0.00          | 0.00             | 0.00               | 598,088.09         | 675,053.41        |
| 600.00         | 0.00       | 0.00                 | 600.00        | -2,832.40       | 0.00          | 0.00          | 0.00             | 0.00               | 598,088.09         | 675,053.41        |
| 650.00         | 0.00       | 0.00                 | 650.00        | -2,782.40       | 0.00          | 0.00          | 0.00             | 0.00               | 598,088.09         | 675,053.41        |
| 700.00         | 0.00       | 0.00                 | 700.00        | -2,732.40       | 0.00          | 0.00          | 0.00             | 0.00               | 598,088.09         | 675,053.41        |
| 750.00         | 0.00       | 0.00                 | 750.00        | -2,682.40       | 0.00          | 0.00          | 0.00             | 0.00               | 598,088.09         | 675,053.41        |
| 800.00         | 0.00       | 0.00                 | 800.00        | -2,632.40       | 0.00          | 0.00          | 0.00             | 0.00               | 598,088.09         | 675,053.41        |
| 850.00         | 0.00       | 0.00                 | 850.00        | -2,582.40       | 0.00          | 0.00          | 0.00             | 0.00               | 598,088.09         | 675,053.41        |
| 900.00         | 0.00       | 0.00                 | 900.00        | -2,532.40       | 0.00          | 0.00          | 0.00             | 0.00               | 598,088.09         | 675,053.41        |
| 950.00         | 0.00       | 0.00                 | 950.00        | -2,482.40       | 0.00          | 0.00          | 0.00             | 0.00               | 598,088.09         | 675,053.41        |
| 1,000.00       | 0.00       | 0.00                 | 1,000.00      | -2,432.40       | 0.00          | 0.00          | 0.00             | 0.00               | 598,088.09         | 675,053.41        |
| 1,050.00       | 0.00       | 0.00                 | 1,050.00      | -2,382.40       | 0.00          | 0.00          | 0.00             | 0.00               | 598,088.09         | 675,053.41        |
| 1,100.00       | 0.00       | 0.00                 | 1,100.00      | -2,332.40       | 0.00          | 0.00          | 0.00             | 0.00               | 598,088.09         | 675,053.41        |
| 1,150.00       | 0.00       | 0.00                 | 1,150.00      | -2,282.40       | 0.00          | 0.00          | 0.00             | 0.00               | 598,088.09         | 675,053.41        |
| 1,200.00       | 0.00       | 0.00                 | 1,200.00      | -2,232.40       | 0.00          | 0.00          | 0.00             | 0.00               | 598,088.09         | 675,053.41        |
| 1,250.00       | 0.00       | 0.00                 | 1,250.00      | -2,182.40       | 0.00          | 0.00          | 0.00             | 0.00               | 598,088.09         | 675,053.41        |
| 1,300.00       | 0.00       | 0.00                 | 1,300.00      | -2,132.40       | 0.00          | 0.00          | 0.00             | 0.00               | 598,088.09         | 675,053.41        |



# Pathfinder Pathfinder X & Y Report

| Company: Devon Energy, Inc.<br>Project: Eddy County<br>Site: Rigel 20 Federal Com<br>Well: 4H<br>Wellbore: OH<br>Design: Plan #1 |              |            |                    | Local Co-ordinate Reference:<br>TVD Reference:<br>MD Reference:<br>North Reference:<br>Survey Calculation Method:<br>Database: |                 |               |               | Well 4H<br>KB = 26.2 @ 3432.40usft (H&P 300)<br>KB = 26.2 @ 3432.40usft (H&P 300)<br>Grid<br>Minimum Curvature<br>EDM 5000.1 Single User Db |                      |                    |                   |
|----------------------------------------------------------------------------------------------------------------------------------|--------------|------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------|-----------------|---------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------|-------------------|
| Planned Survey                                                                                                                   | MD<br>(usft) | Inc<br>(°) | Azi/azimuth<br>(°) | TVD<br>(usft)                                                                                                                  | TVDSS<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | V. Sec<br>(usft)                                                                                                                            | D/Leg<br>(°/100usft) | Northing<br>(usft) | Easting<br>(usft) |
|                                                                                                                                  | 1,350.00     | 0.00       | 0.00               | 1,350.00                                                                                                                       | -2,082.40       | 0.00          | 0.00          | 0.00                                                                                                                                        | 0.00                 | 598,088.09         | 675,053.41        |
|                                                                                                                                  | 1,400.00     | 0.00       | 0.00               | 1,400.00                                                                                                                       | -2,032.40       | 0.00          | 0.00          | 0.00                                                                                                                                        | 0.00                 | 598,088.09         | 675,053.41        |
|                                                                                                                                  | 1,450.00     | 0.00       | 0.00               | 1,450.00                                                                                                                       | -1,982.40       | 0.00          | 0.00          | 0.00                                                                                                                                        | 0.00                 | 598,088.09         | 675,053.41        |
|                                                                                                                                  | 1,500.00     | 0.00       | 0.00               | 1,500.00                                                                                                                       | -1,932.40       | 0.00          | 0.00          | 0.00                                                                                                                                        | 0.00                 | 598,088.09         | 675,053.41        |
|                                                                                                                                  | 1,550.00     | 0.00       | 0.00               | 1,550.00                                                                                                                       | -1,882.40       | 0.00          | 0.00          | 0.00                                                                                                                                        | 0.00                 | 598,088.09         | 675,053.41        |
|                                                                                                                                  | 1,600.00     | 0.00       | 0.00               | 1,600.00                                                                                                                       | -1,832.40       | 0.00          | 0.00          | 0.00                                                                                                                                        | 0.00                 | 598,088.09         | 675,053.41        |
|                                                                                                                                  | 1,650.00     | 0.00       | 0.00               | 1,650.00                                                                                                                       | -1,782.40       | 0.00          | 0.00          | 0.00                                                                                                                                        | 0.00                 | 598,088.09         | 675,053.41        |
|                                                                                                                                  | 1,700.00     | 0.00       | 0.00               | 1,700.00                                                                                                                       | -1,732.40       | 0.00          | 0.00          | 0.00                                                                                                                                        | 0.00                 | 598,088.09         | 675,053.41        |
|                                                                                                                                  | 1,750.00     | 0.00       | 0.00               | 1,750.00                                                                                                                       | -1,682.40       | 0.00          | 0.00          | 0.00                                                                                                                                        | 0.00                 | 598,088.09         | 675,053.41        |
|                                                                                                                                  | 1,800.00     | 0.00       | 0.00               | 1,800.00                                                                                                                       | -1,632.40       | 0.00          | 0.00          | 0.00                                                                                                                                        | 0.00                 | 598,088.09         | 675,053.41        |
|                                                                                                                                  | 1,850.00     | 0.00       | 0.00               | 1,850.00                                                                                                                       | -1,582.40       | 0.00          | 0.00          | 0.00                                                                                                                                        | 0.00                 | 598,088.09         | 675,053.41        |
|                                                                                                                                  | 1,900.00     | 0.00       | 0.00               | 1,900.00                                                                                                                       | -1,532.40       | 0.00          | 0.00          | 0.00                                                                                                                                        | 0.00                 | 598,088.09         | 675,053.41        |
|                                                                                                                                  | 1,950.00     | 0.00       | 0.00               | 1,950.00                                                                                                                       | -1,482.40       | 0.00          | 0.00          | 0.00                                                                                                                                        | 0.00                 | 598,088.09         | 675,053.41        |
|                                                                                                                                  | 2,000.00     | 0.00       | 0.00               | 2,000.00                                                                                                                       | -1,432.40       | 0.00          | 0.00          | 0.00                                                                                                                                        | 0.00                 | 598,088.09         | 675,053.41        |
|                                                                                                                                  | 2,050.00     | 0.00       | 0.00               | 2,050.00                                                                                                                       | -1,382.40       | 0.00          | 0.00          | 0.00                                                                                                                                        | 0.00                 | 598,088.09         | 675,053.41        |
|                                                                                                                                  | 2,100.00     | 0.00       | 0.00               | 2,100.00                                                                                                                       | -1,332.40       | 0.00          | 0.00          | 0.00                                                                                                                                        | 0.00                 | 598,088.09         | 675,053.41        |
|                                                                                                                                  | 2,150.00     | 0.00       | 0.00               | 2,150.00                                                                                                                       | -1,282.40       | 0.00          | 0.00          | 0.00                                                                                                                                        | 0.00                 | 598,088.09         | 675,053.41        |
|                                                                                                                                  | 2,200.00     | 0.00       | 0.00               | 2,200.00                                                                                                                       | -1,232.40       | 0.00          | 0.00          | 0.00                                                                                                                                        | 0.00                 | 598,088.09         | 675,053.41        |
|                                                                                                                                  | 2,250.00     | 0.00       | 0.00               | 2,250.00                                                                                                                       | -1,182.40       | 0.00          | 0.00          | 0.00                                                                                                                                        | 0.00                 | 598,088.09         | 675,053.41        |
|                                                                                                                                  | 2,300.00     | 0.00       | 0.00               | 2,300.00                                                                                                                       | -1,132.40       | 0.00          | 0.00          | 0.00                                                                                                                                        | 0.00                 | 598,088.09         | 675,053.41        |
|                                                                                                                                  | 2,350.00     | 0.00       | 0.00               | 2,350.00                                                                                                                       | -1,082.40       | 0.00          | 0.00          | 0.00                                                                                                                                        | 0.00                 | 598,088.09         | 675,053.41        |
|                                                                                                                                  | 2,400.00     | 0.00       | 0.00               | 2,400.00                                                                                                                       | -1,032.40       | 0.00          | 0.00          | 0.00                                                                                                                                        | 0.00                 | 598,088.09         | 675,053.41        |
|                                                                                                                                  | 2,450.00     | 0.00       | 0.00               | 2,450.00                                                                                                                       | -982.40         | 0.00          | 0.00          | 0.00                                                                                                                                        | 0.00                 | 598,088.09         | 675,053.41        |
|                                                                                                                                  | 2,500.00     | 0.00       | 0.00               | 2,500.00                                                                                                                       | -932.40         | 0.00          | 0.00          | 0.00                                                                                                                                        | 0.00                 | 598,088.09         | 675,053.41        |
|                                                                                                                                  | 2,550.00     | 0.00       | 0.00               | 2,550.00                                                                                                                       | -882.40         | 0.00          | 0.00          | 0.00                                                                                                                                        | 0.00                 | 598,088.09         | 675,053.41        |
|                                                                                                                                  | 2,600.00     | 0.00       | 0.00               | 2,600.00                                                                                                                       | -832.40         | 0.00          | 0.00          | 0.00                                                                                                                                        | 0.00                 | 598,088.09         | 675,053.41        |
|                                                                                                                                  | 2,650.00     | 0.00       | 0.00               | 2,650.00                                                                                                                       | -782.40         | 0.00          | 0.00          | 0.00                                                                                                                                        | 0.00                 | 598,088.09         | 675,053.41        |

# **Pathfinder** Pathfinder X & Y Report

|                                    |                                                         |
|------------------------------------|---------------------------------------------------------|
| <b>Company:</b> Devon Energy, Inc. | <b>Local Co-ordinate Reference:</b> Well 4H             |
| <b>Project:</b> Eddy County        | <b>TVD Reference:</b> KB = 26.2 @ 3432.40usft (H&P 300) |
| <b>Site:</b> Rigel 20 Federal Com  | <b>MD Reference:</b> KB = 26.2 @ 3432.40usft (H&P 300)  |
| <b>Well:</b> 4H                    | <b>North Reference:</b> Grid                            |
| <b>Wellbore:</b> OH                | <b>Survey Calculation Method:</b> Minimum Curvature     |
| <b>Design:</b> Plan #1             | <b>Database:</b> EDM 5000.1 Single User Db              |

| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | TVDSS<br>(usft) | NIS<br>(usft) | E/W<br>(usft) | V. Sec<br>(usft) | D Leg<br>(%100usft) | Northing<br>(usft) | Easting<br>(usft) |
|--------------|------------|----------------------|---------------|-----------------|---------------|---------------|------------------|---------------------|--------------------|-------------------|
| 2,700.00     | 0.00       | 0.00                 | 2,700.00      | -732.40         | 0.00          | 0.00          | 0.00             | 0.00                | 598,088.09         | 675,053.41        |
| 2,750.00     | 0.00       | 0.00                 | 2,750.00      | -682.40         | 0.00          | 0.00          | 0.00             | 0.00                | 598,088.09         | 675,053.41        |
| 2,800.00     | 0.00       | 0.00                 | 2,800.00      | -632.40         | 0.00          | 0.00          | 0.00             | 0.00                | 598,088.09         | 675,053.41        |
| 2,850.00     | 0.00       | 0.00                 | 2,850.00      | -582.40         | 0.00          | 0.00          | 0.00             | 0.00                | 598,088.09         | 675,053.41        |
| 2,900.00     | 0.00       | 0.00                 | 2,900.00      | -532.40         | 0.00          | 0.00          | 0.00             | 0.00                | 598,088.09         | 675,053.41        |
| 2,950.00     | 0.00       | 0.00                 | 2,950.00      | -482.40         | 0.00          | 0.00          | 0.00             | 0.00                | 598,088.09         | 675,053.41        |
| 3,000.00     | 0.00       | 0.00                 | 3,000.00      | -432.40         | 0.00          | 0.00          | 0.00             | 0.00                | 598,088.09         | 675,053.41        |
| 3,050.00     | 0.00       | 0.00                 | 3,050.00      | -382.40         | 0.00          | 0.00          | 0.00             | 0.00                | 598,088.09         | 675,053.41        |
| 3,100.00     | 0.00       | 0.00                 | 3,100.00      | -332.40         | 0.00          | 0.00          | 0.00             | 0.00                | 598,088.09         | 675,053.41        |
| 3,150.00     | 0.00       | 0.00                 | 3,150.00      | -282.40         | 0.00          | 0.00          | 0.00             | 0.00                | 598,088.09         | 675,053.41        |
| 3,200.00     | 0.00       | 0.00                 | 3,200.00      | -232.40         | 0.00          | 0.00          | 0.00             | 0.00                | 598,088.09         | 675,053.41        |
| 3,250.00     | 0.00       | 0.00                 | 3,250.00      | -182.40         | 0.00          | 0.00          | 0.00             | 0.00                | 598,088.09         | 675,053.41        |
| 3,300.00     | 0.00       | 0.00                 | 3,300.00      | -132.40         | 0.00          | 0.00          | 0.00             | 0.00                | 598,088.09         | 675,053.41        |
| 3,350.00     | 0.00       | 0.00                 | 3,350.00      | -82.40          | 0.00          | 0.00          | 0.00             | 0.00                | 598,088.09         | 675,053.41        |
| 3,400.00     | 0.00       | 0.00                 | 3,400.00      | -32.40          | 0.00          | 0.00          | 0.00             | 0.00                | 598,088.09         | 675,053.41        |
| 3,450.00     | 0.00       | 0.00                 | 3,450.00      | 17.60           | 0.00          | 0.00          | 0.00             | 0.00                | 598,088.09         | 675,053.41        |
| 3,500.00     | 0.00       | 0.00                 | 3,500.00      | 67.60           | 0.00          | 0.00          | 0.00             | 0.00                | 598,088.09         | 675,053.41        |
| 3,550.00     | 0.00       | 0.00                 | 3,550.00      | 117.60          | 0.00          | 0.00          | 0.00             | 0.00                | 598,088.09         | 675,053.41        |
| 3,600.00     | 0.00       | 0.00                 | 3,600.00      | 167.60          | 0.00          | 0.00          | 0.00             | 0.00                | 598,088.09         | 675,053.41        |
| 3,650.00     | 0.00       | 0.00                 | 3,650.00      | 217.60          | 0.00          | 0.00          | 0.00             | 0.00                | 598,088.09         | 675,053.41        |
| 3,700.00     | 0.00       | 0.00                 | 3,700.00      | 267.60          | 0.00          | 0.00          | 0.00             | 0.00                | 598,088.09         | 675,053.41        |
| 3,750.00     | 0.00       | 0.00                 | 3,750.00      | 317.60          | 0.00          | 0.00          | 0.00             | 0.00                | 598,088.09         | 675,053.41        |
| 3,800.00     | 0.00       | 0.00                 | 3,800.00      | 367.60          | 0.00          | 0.00          | 0.00             | 0.00                | 598,088.09         | 675,053.41        |
| 3,850.00     | 0.00       | 0.00                 | 3,850.00      | 417.60          | 0.00          | 0.00          | 0.00             | 0.00                | 598,088.09         | 675,053.41        |
| 3,900.00     | 0.00       | 0.00                 | 3,900.00      | 467.60          | 0.00          | 0.00          | 0.00             | 0.00                | 598,088.09         | 675,053.41        |
| 3,950.00     | 0.00       | 0.00                 | 3,950.00      | 517.60          | 0.00          | 0.00          | 0.00             | 0.00                | 598,088.09         | 675,053.41        |
| 4,000.00     | 0.00       | 0.00                 | 4,000.00      | 567.60          | 0.00          | 0.00          | 0.00             | 0.00                | 598,088.09         | 675,053.41        |

# Pathfinder

## Pathfinder X & Y Report

Company: Devon Energy, Inc.  
 Project: Eddy County  
 Site: Rigel 20 Federal Com  
 Well: 4H  
 Wellbore: OH  
 Design: Plan #1

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

Well 4H  
 KB = 26.2 @ 3432.40usft (H&P 300)  
 KB = 26.2 @ 3432.40usft (H&P 300)  
 Grid  
 Minimum Curvature  
 EDM 5000.1 Single User Db

### Planned Survey

| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | TVDSS<br>(usft) | NIS<br>(usft) | EW<br>(usft) | V. Sec<br>(usft) | DLog<br>(°/100usft) | Northing<br>(usft) | Easting<br>(usft) |
|--------------|------------|----------------------|---------------|-----------------|---------------|--------------|------------------|---------------------|--------------------|-------------------|
| 4,050.00     | 0.00       | 0.00                 | 4,050.00      | 617.60          | 0.00          | 0.00         | 0.00             | 0.00                | 598,088.09         | 675,053.41        |
| 4,100.00     | 0.00       | 0.00                 | 4,100.00      | 667.60          | 0.00          | 0.00         | 0.00             | 0.00                | 598,088.09         | 675,053.41        |
| 4,150.00     | 0.00       | 0.00                 | 4,150.00      | 717.60          | 0.00          | 0.00         | 0.00             | 0.00                | 598,088.09         | 675,053.41        |
| 4,200.00     | 0.00       | 0.00                 | 4,200.00      | 767.60          | 0.00          | 0.00         | 0.00             | 0.00                | 598,088.09         | 675,053.41        |
| 4,250.00     | 0.00       | 0.00                 | 4,250.00      | 817.60          | 0.00          | 0.00         | 0.00             | 0.00                | 598,088.09         | 675,053.41        |
| 4,300.00     | 0.00       | 0.00                 | 4,300.00      | 867.60          | 0.00          | 0.00         | 0.00             | 0.00                | 598,088.09         | 675,053.41        |
| 4,350.00     | 0.00       | 0.00                 | 4,350.00      | 917.60          | 0.00          | 0.00         | 0.00             | 0.00                | 598,088.09         | 675,053.41        |
| 4,400.00     | 0.00       | 0.00                 | 4,400.00      | 967.60          | 0.00          | 0.00         | 0.00             | 0.00                | 598,088.09         | 675,053.41        |
| 4,450.00     | 0.00       | 0.00                 | 4,450.00      | 1,017.60        | 0.00          | 0.00         | 0.00             | 0.00                | 598,088.09         | 675,053.41        |
| 4,500.00     | 0.00       | 0.00                 | 4,500.00      | 1,067.60        | 0.00          | 0.00         | 0.00             | 0.00                | 598,088.09         | 675,053.41        |
| 4,550.00     | 0.00       | 0.00                 | 4,550.00      | 1,117.60        | 0.00          | 0.00         | 0.00             | 0.00                | 598,088.09         | 675,053.41        |
| 4,600.00     | 0.00       | 0.00                 | 4,600.00      | 1,167.60        | 0.00          | 0.00         | 0.00             | 0.00                | 598,088.09         | 675,053.41        |
| 4,650.00     | 0.00       | 0.00                 | 4,650.00      | 1,217.60        | 0.00          | 0.00         | 0.00             | 0.00                | 598,088.09         | 675,053.41        |
| 4,700.00     | 0.00       | 0.00                 | 4,700.00      | 1,267.60        | 0.00          | 0.00         | 0.00             | 0.00                | 598,088.09         | 675,053.41        |
| 4,750.00     | 0.00       | 0.00                 | 4,750.00      | 1,317.60        | 0.00          | 0.00         | 0.00             | 0.00                | 598,088.09         | 675,053.41        |
| 4,800.00     | 0.00       | 0.00                 | 4,800.00      | 1,367.60        | 0.00          | 0.00         | 0.00             | 0.00                | 598,088.09         | 675,053.41        |
| 4,850.00     | 0.00       | 0.00                 | 4,850.00      | 1,417.60        | 0.00          | 0.00         | 0.00             | 0.00                | 598,088.09         | 675,053.41        |
| 4,900.00     | 0.00       | 0.00                 | 4,900.00      | 1,467.60        | 0.00          | 0.00         | 0.00             | 0.00                | 598,088.09         | 675,053.41        |
| 4,950.00     | 0.00       | 0.00                 | 4,950.00      | 1,517.60        | 0.00          | 0.00         | 0.00             | 0.00                | 598,088.09         | 675,053.41        |
| 5,000.00     | 0.00       | 0.00                 | 5,000.00      | 1,567.60        | 0.00          | 0.00         | 0.00             | 0.00                | 598,088.09         | 675,053.41        |
| 5,050.00     | 0.00       | 0.00                 | 5,050.00      | 1,617.60        | 0.00          | 0.00         | 0.00             | 0.00                | 598,088.09         | 675,053.41        |
| 5,100.00     | 0.00       | 0.00                 | 5,100.00      | 1,667.60        | 0.00          | 0.00         | 0.00             | 0.00                | 598,088.09         | 675,053.41        |
| 5,150.00     | 0.00       | 0.00                 | 5,150.00      | 1,717.60        | 0.00          | 0.00         | 0.00             | 0.00                | 598,088.09         | 675,053.41        |
| 5,200.00     | 0.00       | 0.00                 | 5,200.00      | 1,767.60        | 0.00          | 0.00         | 0.00             | 0.00                | 598,088.09         | 675,053.41        |
| 5,250.00     | 0.00       | 0.00                 | 5,250.00      | 1,817.60        | 0.00          | 0.00         | 0.00             | 0.00                | 598,088.09         | 675,053.41        |
| 5,300.00     | 0.00       | 0.00                 | 5,300.00      | 1,867.60        | 0.00          | 0.00         | 0.00             | 0.00                | 598,088.09         | 675,053.41        |
| 5,350.00     | 0.00       | 0.00                 | 5,350.00      | 1,917.60        | 0.00          | 0.00         | 0.00             | 0.00                | 598,088.09         | 675,053.41        |

# Pathfinder

## Pathfinder X & Y Report

| Company: Devon Energy, Inc. |            | Local Co-ordinate Reference: |               |                 |               | Well 4H                           |                 |                      |                    |                   |
|-----------------------------|------------|------------------------------|---------------|-----------------|---------------|-----------------------------------|-----------------|----------------------|--------------------|-------------------|
| Project: Eddy County        |            | TVD Reference:               |               |                 |               | KB = 26.2 @ 3432.40usft (H&P 300) |                 |                      |                    |                   |
| Site: Rigel 20 Federal Com  |            | MD Reference:                |               |                 |               | KB = 26.2 @ 3432.40usft (H&P 300) |                 |                      |                    |                   |
| Well: 4H                    |            | North Reference:             |               |                 |               | Grid                              |                 |                      |                    |                   |
| Wellbore: OH                |            | Survey Calculation Method:   |               |                 |               | Minimum Curvature                 |                 |                      |                    |                   |
| Design: Plan #1             |            | Database:                    |               |                 |               | EDM 5000.1 Single User Db         |                 |                      |                    |                   |
| Planned Survey              |            |                              |               |                 |               |                                   |                 |                      |                    |                   |
| MD<br>(usft)                | Inc<br>(°) | Azi (azimuth)<br>(°)         | TVD<br>(usft) | TVDSS<br>(usft) | N/S<br>(usft) | E/W<br>(usft)                     | V/Sec<br>(usft) | D/Leg<br>(%/100usft) | Northing<br>(usft) | Easting<br>(usft) |
| 5,400.00                    | 0.00       | 0.00                         | 5,400.00      | 1,967.60        | 0.00          | 0.00                              | 0.00            | 0.00                 | 598,088.09         | 675,053.41        |
| 5,450.00                    | 0.00       | 0.00                         | 5,450.00      | 2,017.60        | 0.00          | 0.00                              | 0.00            | 0.00                 | 598,088.09         | 675,053.41        |
| 5,500.00                    | 0.00       | 0.00                         | 5,500.00      | 2,067.60        | 0.00          | 0.00                              | 0.00            | 0.00                 | 598,088.09         | 675,053.41        |
| 5,550.00                    | 0.00       | 0.00                         | 5,550.00      | 2,117.60        | 0.00          | 0.00                              | 0.00            | 0.00                 | 598,088.09         | 675,053.41        |
| 5,600.00                    | 0.00       | 0.00                         | 5,600.00      | 2,167.60        | 0.00          | 0.00                              | 0.00            | 0.00                 | 598,088.09         | 675,053.41        |
| 5,650.00                    | 0.00       | 0.00                         | 5,650.00      | 2,217.60        | 0.00          | 0.00                              | 0.00            | 0.00                 | 598,088.09         | 675,053.41        |
| 5,700.00                    | 0.00       | 0.00                         | 5,700.00      | 2,267.60        | 0.00          | 0.00                              | 0.00            | 0.00                 | 598,088.09         | 675,053.41        |
| 5,750.00                    | 0.00       | 0.00                         | 5,750.00      | 2,317.60        | 0.00          | 0.00                              | 0.00            | 0.00                 | 598,088.09         | 675,053.41        |
| 5,800.00                    | 0.00       | 0.00                         | 5,800.00      | 2,367.60        | 0.00          | 0.00                              | 0.00            | 0.00                 | 598,088.09         | 675,053.41        |
| 5,850.00                    | 0.00       | 0.00                         | 5,850.00      | 2,417.60        | 0.00          | 0.00                              | 0.00            | 0.00                 | 598,088.09         | 675,053.41        |
| 5,900.00                    | 0.00       | 0.00                         | 5,900.00      | 2,467.60        | 0.00          | 0.00                              | 0.00            | 0.00                 | 598,088.09         | 675,053.41        |
| 5,950.00                    | 0.00       | 0.00                         | 5,950.00      | 2,517.60        | 0.00          | 0.00                              | 0.00            | 0.00                 | 598,088.09         | 675,053.41        |
| 6,000.00                    | 0.00       | 0.00                         | 6,000.00      | 2,567.60        | 0.00          | 0.00                              | 0.00            | 0.00                 | 598,088.09         | 675,053.41        |
| 6,050.00                    | 0.00       | 0.00                         | 6,050.00      | 2,617.60        | 0.00          | 0.00                              | 0.00            | 0.00                 | 598,088.09         | 675,053.41        |
| 6,100.00                    | 0.00       | 0.00                         | 6,100.00      | 2,667.60        | 0.00          | 0.00                              | 0.00            | 0.00                 | 598,088.09         | 675,053.41        |
| 6,150.00                    | 0.00       | 0.00                         | 6,150.00      | 2,717.60        | 0.00          | 0.00                              | 0.00            | 0.00                 | 598,088.09         | 675,053.41        |
| 6,200.00                    | 0.00       | 0.00                         | 6,200.00      | 2,767.60        | 0.00          | 0.00                              | 0.00            | 0.00                 | 598,088.09         | 675,053.41        |
| 6,250.00                    | 0.00       | 0.00                         | 6,250.00      | 2,817.60        | 0.00          | 0.00                              | 0.00            | 0.00                 | 598,088.09         | 675,053.41        |
| 6,300.00                    | 0.00       | 0.00                         | 6,300.00      | 2,867.60        | 0.00          | 0.00                              | 0.00            | 0.00                 | 598,088.09         | 675,053.41        |
| 6,350.00                    | 0.00       | 0.00                         | 6,350.00      | 2,917.60        | 0.00          | 0.00                              | 0.00            | 0.00                 | 598,088.09         | 675,053.41        |
| 6,400.00                    | 0.00       | 0.00                         | 6,400.00      | 2,967.60        | 0.00          | 0.00                              | 0.00            | 0.00                 | 598,088.09         | 675,053.41        |
| 6,450.00                    | 0.00       | 0.00                         | 6,450.00      | 3,017.60        | 0.00          | 0.00                              | 0.00            | 0.00                 | 598,088.09         | 675,053.41        |
| 6,500.00                    | 0.00       | 0.00                         | 6,500.00      | 3,067.60        | 0.00          | 0.00                              | 0.00            | 0.00                 | 598,088.09         | 675,053.41        |
| 6,550.00                    | 0.00       | 0.00                         | 6,550.00      | 3,117.60        | 0.00          | 0.00                              | 0.00            | 0.00                 | 598,088.09         | 675,053.41        |
| 6,600.00                    | 0.00       | 0.00                         | 6,600.00      | 3,167.60        | 0.00          | 0.00                              | 0.00            | 0.00                 | 598,088.09         | 675,053.41        |
| 6,650.00                    | 0.00       | 0.00                         | 6,650.00      | 3,217.60        | 0.00          | 0.00                              | 0.00            | 0.00                 | 598,088.09         | 675,053.41        |
| 6,700.00                    | 0.00       | 0.00                         | 6,700.00      | 3,267.60        | 0.00          | 0.00                              | 0.00            | 0.00                 | 598,088.09         | 675,053.41        |

# Pathfinder

## Pathfinder X & Y Report

|                                                                                                                                  |            |                      |               |                                                                                                                                                                             |               |               |                  |                      |                    |                   |  |
|----------------------------------------------------------------------------------------------------------------------------------|------------|----------------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------|------------------|----------------------|--------------------|-------------------|--|
| Company: Devon Energy, Inc.<br>Project: Eddy County<br>Site: Rigel 20 Federal Com<br>Well: 4H<br>Wellbore: OH<br>Design: Plan #1 |            |                      |               | Local Co-ordinate Reference:<br>Well 4H<br>KB = 26.2 @ 3432.40usft (H&P 300)<br>KB = 26.2 @ 3432.40usft (H&P 300)<br>Grid<br>Minimum Curvature<br>EDM 5000.1 Single User Db |               |               |                  |                      |                    |                   |  |
| Planned Survey                                                                                                                   |            |                      |               |                                                                                                                                                                             |               |               |                  |                      |                    |                   |  |
| MD<br>(usft)                                                                                                                     | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | TVDSS<br>(usft)                                                                                                                                                             | N/S<br>(usft) | E/W<br>(usft) | V. Sec<br>(usft) | D/Leg<br>(°/100usft) | Northing<br>(usft) | Easting<br>(usft) |  |
| 6,750.00                                                                                                                         | 0.00       | 0.00                 | 6,750.00      | 3,317.60                                                                                                                                                                    | 0.00          | 0.00          | 0.00             | 0.00                 | 598,088.09         | 675,053.41        |  |
| 6,800.00                                                                                                                         | 0.00       | 0.00                 | 6,800.00      | 3,367.60                                                                                                                                                                    | 0.00          | 0.00          | 0.00             | 0.00                 | 598,088.09         | 675,053.41        |  |
| 6,850.00                                                                                                                         | 0.00       | 0.00                 | 6,850.00      | 3,417.60                                                                                                                                                                    | 0.00          | 0.00          | 0.00             | 0.00                 | 598,088.09         | 675,053.41        |  |
| 6,900.00                                                                                                                         | 0.00       | 0.00                 | 6,900.00      | 3,467.60                                                                                                                                                                    | 0.00          | 0.00          | 0.00             | 0.00                 | 598,088.09         | 675,053.41        |  |
| 6,950.00                                                                                                                         | 0.00       | 0.00                 | 6,950.00      | 3,517.60                                                                                                                                                                    | 0.00          | 0.00          | 0.00             | 0.00                 | 598,088.09         | 675,053.41        |  |
| 7,000.00                                                                                                                         | 0.00       | 0.00                 | 7,000.00      | 3,567.60                                                                                                                                                                    | 0.00          | 0.00          | 0.00             | 0.00                 | 598,088.09         | 675,053.41        |  |
| 7,050.00                                                                                                                         | 0.00       | 0.00                 | 7,050.00      | 3,617.60                                                                                                                                                                    | 0.00          | 0.00          | 0.00             | 0.00                 | 598,088.09         | 675,053.41        |  |
| 7,100.00                                                                                                                         | 0.00       | 0.00                 | 7,100.00      | 3,667.60                                                                                                                                                                    | 0.00          | 0.00          | 0.00             | 0.00                 | 598,088.09         | 675,053.41        |  |
| 7,150.00                                                                                                                         | 0.00       | 0.00                 | 7,150.00      | 3,717.60                                                                                                                                                                    | 0.00          | 0.00          | 0.00             | 0.00                 | 598,088.09         | 675,053.41        |  |
| 7,200.00                                                                                                                         | 0.00       | 0.00                 | 7,200.00      | 3,767.60                                                                                                                                                                    | 0.00          | 0.00          | 0.00             | 0.00                 | 598,088.09         | 675,053.41        |  |
| 7,250.00                                                                                                                         | 0.00       | 0.00                 | 7,250.00      | 3,817.60                                                                                                                                                                    | 0.00          | 0.00          | 0.00             | 0.00                 | 598,088.09         | 675,053.41        |  |
| 7,300.00                                                                                                                         | 0.00       | 0.00                 | 7,300.00      | 3,867.60                                                                                                                                                                    | 0.00          | 0.00          | 0.00             | 0.00                 | 598,088.09         | 675,053.41        |  |
| 7,350.00                                                                                                                         | 0.00       | 0.00                 | 7,350.00      | 3,917.60                                                                                                                                                                    | 0.00          | 0.00          | 0.00             | 0.00                 | 598,088.09         | 675,053.41        |  |
| 7,400.00                                                                                                                         | 0.00       | 0.00                 | 7,400.00      | 3,967.60                                                                                                                                                                    | 0.00          | 0.00          | 0.00             | 0.00                 | 598,088.09         | 675,053.41        |  |
| 7,450.00                                                                                                                         | 0.00       | 0.00                 | 7,450.00      | 4,017.60                                                                                                                                                                    | 0.00          | 0.00          | 0.00             | 0.00                 | 598,088.09         | 675,053.41        |  |
| 7,500.00                                                                                                                         | 0.00       | 0.00                 | 7,500.00      | 4,067.60                                                                                                                                                                    | 0.00          | 0.00          | 0.00             | 0.00                 | 598,088.09         | 675,053.41        |  |
| 7,550.00                                                                                                                         | 0.00       | 0.00                 | 7,550.00      | 4,117.60                                                                                                                                                                    | 0.00          | 0.00          | 0.00             | 0.00                 | 598,088.09         | 675,053.41        |  |
| 7,600.00                                                                                                                         | 0.00       | 0.00                 | 7,600.00      | 4,167.60                                                                                                                                                                    | 0.00          | 0.00          | 0.00             | 0.00                 | 598,088.09         | 675,053.41        |  |
| 7,650.00                                                                                                                         | 0.00       | 0.00                 | 7,650.00      | 4,217.60                                                                                                                                                                    | 0.00          | 0.00          | 0.00             | 0.00                 | 598,088.09         | 675,053.41        |  |
| 7,700.00                                                                                                                         | 0.00       | 0.00                 | 7,700.00      | 4,267.60                                                                                                                                                                    | 0.00          | 0.00          | 0.00             | 0.00                 | 598,088.09         | 675,053.41        |  |
| 7,750.00                                                                                                                         | 0.00       | 0.00                 | 7,750.00      | 4,317.60                                                                                                                                                                    | 0.00          | 0.00          | 0.00             | 0.00                 | 598,088.09         | 675,053.41        |  |
| 7,800.00                                                                                                                         | 0.00       | 0.00                 | 7,800.00      | 4,367.60                                                                                                                                                                    | 0.00          | 0.00          | 0.00             | 0.00                 | 598,088.09         | 675,053.41        |  |
| 7,850.00                                                                                                                         | 0.00       | 0.00                 | 7,850.00      | 4,417.60                                                                                                                                                                    | 0.00          | 0.00          | 0.00             | 0.00                 | 598,088.09         | 675,053.41        |  |
| 7,900.00                                                                                                                         | 0.00       | 0.00                 | 7,900.00      | 4,467.60                                                                                                                                                                    | 0.00          | 0.00          | 0.00             | 0.00                 | 598,088.09         | 675,053.41        |  |
| 7,950.00                                                                                                                         | 0.00       | 0.00                 | 7,950.00      | 4,517.60                                                                                                                                                                    | 0.00          | 0.00          | 0.00             | 0.00                 | 598,088.09         | 675,053.41        |  |
| 8,000.00                                                                                                                         | 0.00       | 0.00                 | 8,000.00      | 4,567.60                                                                                                                                                                    | 0.00          | 0.00          | 0.00             | 0.00                 | 598,088.09         | 675,053.41        |  |
| 8,050.00                                                                                                                         | 0.00       | 0.00                 | 8,050.00      | 4,617.60                                                                                                                                                                    | 0.00          | 0.00          | 0.00             | 0.00                 | 598,088.09         | 675,053.41        |  |



# Pathfinder

## Pathfinder X & Y Report

Company: Devon Energy, Inc.  
 Project: Eddy County  
 Site: Rigel 20 Federal Com  
 Well: 4H  
 Wellbore: OH  
 Design: Plan #1

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

Well 4H  
 KB = 26.2 @ 3432.40usft (H&P 300)  
 KB = 26.2 @ 3432.40usft (H&P 300)  
 Grid  
 Minimum Curvature  
 EDM 5000.1 Single User Db

| Planned Survey | MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | TVDSS<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | V. Sec<br>(usft) | D Leg<br>(°100usft) | Northings<br>(usft) | Easting<br>(usft) |
|----------------|--------------|------------|----------------------|---------------|-----------------|---------------|---------------|------------------|---------------------|---------------------|-------------------|
|                | 8,100.00     | 0.00       | 0.00                 | 8,100.00      | 4,667.60        | 0.00          | 0.00          | 0.00             | 0.00                | 598,088.09          | 675,053.41        |
|                | 8,150.00     | 0.00       | 0.00                 | 8,150.00      | 4,717.60        | 0.00          | 0.00          | 0.00             | 0.00                | 598,088.09          | 675,053.41        |
|                | 8,200.00     | 0.00       | 0.00                 | 8,200.00      | 4,767.60        | 0.00          | 0.00          | 0.00             | 0.00                | 598,088.09          | 675,053.41        |
|                | 8,250.00     | 0.00       | 0.00                 | 8,250.00      | 4,817.60        | 0.00          | 0.00          | 0.00             | 0.00                | 598,088.09          | 675,053.41        |
|                | 8,300.00     | 0.00       | 0.00                 | 8,300.00      | 4,867.60        | 0.00          | 0.00          | 0.00             | 0.00                | 598,088.09          | 675,053.41        |
|                | 8,305.05     | 0.00       | 0.00                 | 8,305.05      | 4,872.65        | 0.00          | 0.00          | 0.00             | 0.00                | 598,088.09          | 675,053.41        |
|                | 8,350.00     | 4.50       | 154.16               | 8,349.95      | 4,917.55        | -1.59         | 0.77          | 1.17             | 10.00               | 598,086.50          | 675,054.18        |
|                | 8,400.00     | 9.50       | 154.16               | 8,399.57      | 4,967.17        | -7.06         | 3.42          | 5.23             | 10.00               | 598,081.03          | 675,056.83        |
|                | 8,450.00     | 14.50      | 154.16               | 8,448.46      | 5,016.06        | -16.41        | 7.95          | 12.15            | 10.00               | 598,071.68          | 675,061.36        |
|                | 8,500.00     | 19.50      | 154.16               | 8,496.26      | 5,063.86        | -29.56        | 14.32         | 21.89            | 10.00               | 598,058.53          | 675,067.73        |
|                | 8,550.00     | 24.50      | 154.16               | 8,542.61      | 5,110.21        | -46.41        | 22.48         | 34.36            | 10.00               | 598,041.68          | 675,075.89        |
|                | 8,600.00     | 29.50      | 154.16               | 8,587.14      | 5,154.74        | -66.83        | 32.37         | 49.47            | 10.00               | 598,021.26          | 675,085.78        |
|                | 8,650.00     | 34.50      | 154.16               | 8,628.54      | 5,197.14        | -80.67        | 43.91         | 67.12            | 10.00               | 597,997.42          | 675,097.32        |
|                | 8,700.00     | 39.50      | 154.16               | 8,669.46      | 5,237.06        | -117.74       | 57.02         | 87.16            | 10.00               | 597,970.35          | 675,110.43        |
|                | 8,750.00     | 44.50      | 154.16               | 8,706.61      | 5,274.21        | -147.84       | 71.59         | 109.44           | 10.00               | 597,940.25          | 675,125.00        |
|                | 8,800.00     | 49.50      | 154.16               | 8,740.70      | 5,308.30        | -180.74       | 87.53         | 133.80           | 10.00               | 597,907.35          | 675,140.94        |
|                | 8,850.00     | 54.50      | 154.16               | 8,771.47      | 5,339.07        | -216.18       | 104.89        | 160.04           | 10.00               | 597,871.91          | 675,158.10        |
|                | 8,900.00     | 59.50      | 154.16               | 8,798.70      | 5,366.30        | -253.91       | 122.96        | 187.97           | 10.00               | 597,834.18          | 675,176.37        |
|                | 8,950.00     | 64.50      | 154.16               | 8,822.17      | 5,389.77        | -293.63       | 142.20        | 217.37           | 10.00               | 597,794.46          | 675,195.61        |
|                | 9,000.00     | 69.50      | 154.16               | 8,841.71      | 5,409.31        | -335.04       | 162.25        | 248.02           | 10.00               | 597,753.05          | 675,215.66        |
|                | 9,050.00     | 74.50      | 154.16               | 8,857.16      | 5,424.76        | -377.82       | 182.97        | 279.70           | 10.00               | 597,710.27          | 675,236.38        |
|                | 9,100.00     | 79.50      | 154.16               | 8,868.40      | 5,436.00        | -421.65       | 204.20        | 312.15           | 10.00               | 597,666.44          | 675,257.61        |
|                | 9,150.00     | 84.50      | 154.16               | 8,875.37      | 5,442.97        | -466.20       | 225.77        | 345.12           | 10.00               | 597,621.89          | 675,279.18        |
|                | 9,200.00     | 89.50      | 154.16               | 8,877.99      | 5,445.59        | -511.13       | 247.53        | 378.38           | 10.00               | 597,576.96          | 675,300.94        |
|                | 9,202.45     | 89.74      | 154.16               | 8,878.00      | 5,445.60        | -513.33       | 248.60        | 380.01           | 10.00               | 597,574.76          | 675,302.01        |
|                | 9,250.00     | 89.73      | 152.26               | 8,878.22      | 5,445.82        | -555.77       | 270.03        | 412.28           | 4.00                | 597,532.32          | 675,323.44        |
|                | 9,300.00     | 89.73      | 150.26               | 8,878.45      | 5,446.05        | -599.61       | 294.07        | 447.43           | 4.00                | 597,488.48          | 675,347.48        |

# Pathfinder Pathfinder X & Y Report

|                             |            |                      |                                   |                 |               |              |                  |                     |                    |                   |  |  |
|-----------------------------|------------|----------------------|-----------------------------------|-----------------|---------------|--------------|------------------|---------------------|--------------------|-------------------|--|--|
| Company: Devon Energy, Inc. |            |                      | Local Co-ordinate Reference:      |                 |               |              |                  |                     |                    |                   |  |  |
| Project: Eddy County        |            |                      | TVD Reference: Well 4H            |                 |               |              |                  |                     |                    |                   |  |  |
| Site: Rigel 20 Federal Com  |            |                      | KB = 26.2 @ 3432.40usft (H&P 300) |                 |               |              |                  |                     |                    |                   |  |  |
| Well: 4H                    |            |                      | KB = 26.2 @ 3432.40usft (H&P 300) |                 |               |              |                  |                     |                    |                   |  |  |
| Wellbore: OH                |            |                      | Grid                              |                 |               |              |                  |                     |                    |                   |  |  |
| Design: Plan #1             |            |                      | Minimum Curvature                 |                 |               |              |                  |                     |                    |                   |  |  |
|                             |            |                      | EDM 5000.1 Single User Db         |                 |               |              |                  |                     |                    |                   |  |  |
| Planned Survey              |            |                      |                                   |                 |               |              |                  |                     |                    |                   |  |  |
| MD<br>(usft)                | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft)                     | TVDSS<br>(usft) | N/S<br>(usft) | EW<br>(usft) | V. Sec<br>(usft) | DLeg<br>(°/100usft) | Northing<br>(usft) | Easting<br>(usft) |  |  |
| 9,350.00                    | 89.72      | 148.26               | 8,878.69                          | 5,446.29        | -642.58       | 319.63       | 483.81           | 4.00                | 597,445.51         | 675,373.04        |  |  |
| 9,400.00                    | 89.72      | 146.26               | 8,878.93                          | 5,446.53        | -684.64       | 346.67       | 521.36           | 4.00                | 597,403.45         | 675,400.08        |  |  |
| 9,450.00                    | 89.72      | 144.26               | 8,879.18                          | 5,446.78        | -725.72       | 375.16       | 560.04           | 4.00                | 597,362.37         | 675,428.57        |  |  |
| 9,500.00                    | 89.71      | 142.26               | 8,879.43                          | 5,447.03        | -765.78       | 405.07       | 599.80           | 4.00                | 597,322.31         | 675,458.48        |  |  |
| 9,550.00                    | 89.71      | 140.26               | 8,879.68                          | 5,447.28        | -804.78       | 436.36       | 640.60           | 4.00                | 597,283.31         | 675,489.77        |  |  |
| 9,600.00                    | 89.71      | 138.26               | 8,879.94                          | 5,447.54        | -842.66       | 468.99       | 682.38           | 4.00                | 597,245.43         | 675,522.40        |  |  |
| 9,650.00                    | 89.70      | 136.26               | 8,880.20                          | 5,447.80        | -879.38       | 502.92       | 725.09           | 4.00                | 597,208.71         | 675,556.33        |  |  |
| 9,700.00                    | 89.70      | 134.26               | 8,880.46                          | 5,448.06        | -914.89       | 538.11       | 768.68           | 4.00                | 597,173.20         | 675,591.52        |  |  |
| 9,750.00                    | 89.70      | 132.26               | 8,880.72                          | 5,448.32        | -949.15       | 574.53       | 813.10           | 4.00                | 597,138.94         | 675,627.94        |  |  |
| 9,800.00                    | 89.70      | 130.26               | 8,880.98                          | 5,448.58        | -982.12       | 612.11       | 858.30           | 4.00                | 597,105.97         | 675,665.52        |  |  |
| 9,850.00                    | 89.69      | 128.26               | 8,881.25                          | 5,448.85        | -1,013.76     | 650.82       | 904.21           | 4.00                | 597,074.33         | 675,704.23        |  |  |
| 9,900.00                    | 89.69      | 126.26               | 8,881.52                          | 5,449.12        | -1,044.03     | 690.62       | 950.79           | 4.00                | 597,044.06         | 675,744.03        |  |  |
| 9,950.00                    | 89.69      | 124.26               | 8,881.78                          | 5,449.38        | -1,072.89     | 731.44       | 997.97           | 4.00                | 597,015.20         | 675,784.85        |  |  |
| 10,000.00                   | 89.69      | 122.26               | 8,882.05                          | 5,449.65        | -1,100.31     | 773.25       | 1,045.70         | 4.00                | 596,987.78         | 675,826.66        |  |  |
| 10,050.00                   | 89.69      | 120.26               | 8,882.32                          | 5,449.92        | -1,126.25     | 815.99       | 1,093.92         | 4.00                | 596,961.84         | 675,869.40        |  |  |
| 10,100.00                   | 89.69      | 118.26               | 8,882.59                          | 5,450.19        | -1,150.69     | 859.61       | 1,142.57         | 4.00                | 596,937.40         | 675,913.02        |  |  |
| 10,150.00                   | 89.69      | 116.26               | 8,882.85                          | 5,450.45        | -1,173.58     | 904.05       | 1,191.59         | 4.00                | 596,914.51         | 675,957.46        |  |  |
| 10,200.00                   | 89.70      | 114.26               | 8,883.12                          | 5,450.72        | -1,194.92     | 949.27       | 1,240.93         | 4.00                | 596,893.17         | 676,002.68        |  |  |
| 10,250.00                   | 89.70      | 112.26               | 8,883.38                          | 5,450.98        | -1,214.66     | 995.21       | 1,290.52         | 4.00                | 596,873.43         | 676,048.62        |  |  |
| 10,300.00                   | 89.70      | 110.26               | 8,883.65                          | 5,451.25        | -1,232.79     | 1,041.80     | 1,340.30         | 4.00                | 596,855.30         | 676,095.21        |  |  |
| 10,350.00                   | 89.70      | 108.26               | 8,883.91                          | 5,451.51        | -1,249.27     | 1,089.00     | 1,390.22         | 4.00                | 596,838.82         | 676,142.41        |  |  |
| 10,400.00                   | 89.70      | 106.26               | 8,884.17                          | 5,451.77        | -1,264.11     | 1,136.75     | 1,440.20         | 4.00                | 596,823.98         | 676,190.16        |  |  |
| 10,450.00                   | 89.71      | 104.26               | 8,884.42                          | 5,452.02        | -1,277.26     | 1,184.98     | 1,490.19         | 4.00                | 596,810.83         | 676,238.39        |  |  |
| 10,500.00                   | 89.71      | 102.26               | 8,884.68                          | 5,452.28        | -1,288.73     | 1,233.64     | 1,540.14         | 4.00                | 596,799.36         | 676,287.05        |  |  |
| 10,550.00                   | 89.72      | 100.26               | 8,884.93                          | 5,452.53        | -1,298.49     | 1,282.68     | 1,589.96         | 4.00                | 596,789.60         | 676,336.09        |  |  |
| 10,600.00                   | 89.72      | 98.26                | 8,885.17                          | 5,452.77        | -1,306.53     | 1,332.02     | 1,639.62         | 4.00                | 596,781.56         | 676,385.43        |  |  |
| 10,650.00                   | 89.72      | 96.26                | 8,885.42                          | 5,453.02        | -1,312.85     | 1,381.62     | 1,689.05         | 4.00                | 596,775.24         | 676,435.03        |  |  |

well track  
across  
formation

# Pathfinder

## Pathfinder X & Y Report

Company: Devon Energy, Inc.  
 Project: Eddy County  
 Site: Rigel 20 Federal Com  
 Well: 4H  
 Wellbore: OH  
 Design: Plan #1

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

Well 4H  
 KB = 26.2 @ 3432.40usft (H&P 300)  
 KB = 26.2 @ 3432.40usft (H&P 300)  
 Grid  
 Minimum Curvature  
 EDM 5000.1 Single User Db

### Planned Survey

| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | TVDSS<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | V. Sec<br>(usft) | D Leg<br>(°/100usft) | Northing<br>(usft) | Easting<br>(usft) |
|--------------|------------|----------------------|---------------|-----------------|---------------|---------------|------------------|----------------------|--------------------|-------------------|
| 10,700.00    | 89.73      | 94.26                | 8,885.66      | 5,453.26        | -1,317.43     | 1,431.41      | 1,738.18         | 4.00                 | 596,770.66         | 676,484.82        |
| 10,750.00    | 89.73      | 92.26                | 8,885.89      | 5,453.49        | -1,320.27     | 1,481.32      | 1,786.95         | 4.00                 | 596,767.82         | 676,534.73        |
| 10,800.00    | 89.74      | 90.26                | 8,886.12      | 5,453.72        | -1,321.37     | 1,531.31      | 1,835.32         | 4.00                 | 596,766.72         | 676,584.72        |
| 10,806.20    | 89.74      | 90.01                | 8,886.15      | 5,453.75        | -1,321.38     | 1,537.51      | 1,841.28         | 4.00                 | 596,766.71         | 676,590.92        |
| 10,850.00    | 89.74      | 90.01                | 8,886.35      | 5,453.95        | -1,321.39     | 1,581.31      | 1,883.40         | 0.00                 | 596,766.70         | 676,634.72        |
| 10,900.00    | 89.74      | 90.01                | 8,886.57      | 5,454.17        | -1,321.40     | 1,631.31      | 1,931.48         | 0.00                 | 596,766.69         | 676,684.72        |
| 10,950.00    | 89.74      | 90.01                | 8,886.80      | 5,454.40        | -1,321.41     | 1,681.31      | 1,979.56         | 0.00                 | 596,766.68         | 676,734.72        |
| 11,000.00    | 89.74      | 90.01                | 8,887.03      | 5,454.63        | -1,321.41     | 1,731.31      | 2,027.64         | 0.00                 | 596,766.68         | 676,784.72        |
| 11,050.00    | 89.74      | 90.01                | 8,887.26      | 5,454.86        | -1,321.42     | 1,781.31      | 2,075.72         | 0.00                 | 596,766.67         | 676,834.72        |
| 11,100.00    | 89.74      | 90.01                | 8,887.48      | 5,455.08        | -1,321.43     | 1,831.31      | 2,123.80         | 0.00                 | 596,766.66         | 676,884.72        |
| 11,150.00    | 89.74      | 90.01                | 8,887.71      | 5,455.31        | -1,321.44     | 1,881.31      | 2,171.88         | 0.00                 | 596,766.65         | 676,934.72        |
| 11,200.00    | 89.74      | 90.01                | 8,887.94      | 5,455.54        | -1,321.45     | 1,931.30      | 2,219.95         | 0.00                 | 596,766.64         | 676,984.71        |
| 11,250.00    | 89.74      | 90.01                | 8,888.16      | 5,455.76        | -1,321.45     | 1,981.30      | 2,268.03         | 0.00                 | 596,766.64         | 677,034.71        |
| 11,300.00    | 89.74      | 90.01                | 8,888.39      | 5,455.99        | -1,321.46     | 2,031.30      | 2,316.11         | 0.00                 | 596,766.63         | 677,084.71        |
| 11,350.00    | 89.74      | 90.01                | 8,888.62      | 5,456.22        | -1,321.47     | 2,081.30      | 2,364.19         | 0.00                 | 596,766.62         | 677,134.71        |
| 11,400.00    | 89.74      | 90.01                | 8,888.84      | 5,456.44        | -1,321.48     | 2,131.30      | 2,412.27         | 0.00                 | 596,766.61         | 677,184.71        |
| 11,450.00    | 89.74      | 90.01                | 8,889.07      | 5,456.67        | -1,321.49     | 2,181.30      | 2,460.35         | 0.00                 | 596,766.60         | 677,234.71        |
| 11,500.00    | 89.74      | 90.01                | 8,889.30      | 5,456.90        | -1,321.49     | 2,231.30      | 2,508.43         | 0.00                 | 596,766.60         | 677,284.71        |
| 11,550.00    | 89.74      | 90.01                | 8,889.52      | 5,457.12        | -1,321.50     | 2,281.30      | 2,556.51         | 0.00                 | 596,766.59         | 677,334.71        |
| 11,600.00    | 89.74      | 90.01                | 8,889.75      | 5,457.35        | -1,321.51     | 2,331.30      | 2,604.59         | 0.00                 | 596,766.58         | 677,384.71        |
| 11,650.00    | 89.74      | 90.01                | 8,889.98      | 5,457.58        | -1,321.52     | 2,381.30      | 2,652.67         | 0.00                 | 596,766.57         | 677,434.71        |
| 11,700.00    | 89.74      | 90.01                | 8,890.20      | 5,457.80        | -1,321.53     | 2,431.30      | 2,700.75         | 0.00                 | 596,766.56         | 677,484.71        |
| 11,750.00    | 89.74      | 90.01                | 8,890.43      | 5,458.03        | -1,321.53     | 2,481.30      | 2,748.83         | 0.00                 | 596,766.56         | 677,534.71        |
| 11,800.00    | 89.74      | 90.01                | 8,890.66      | 5,458.26        | -1,321.54     | 2,531.30      | 2,796.91         | 0.00                 | 596,766.55         | 677,584.71        |
| 11,850.00    | 89.74      | 90.01                | 8,890.89      | 5,458.49        | -1,321.55     | 2,581.30      | 2,844.98         | 0.00                 | 596,766.54         | 677,634.71        |
| 11,900.00    | 89.74      | 90.01                | 8,891.11      | 5,458.71        | -1,321.56     | 2,631.30      | 2,893.06         | 0.00                 | 596,766.53         | 677,684.71        |
| 11,950.00    | 89.74      | 90.01                | 8,891.34      | 5,458.94        | -1,321.57     | 2,681.30      | 2,941.14         | 0.00                 | 596,766.52         | 677,734.71        |

# Pathfinder

## Pathfinder X & Y Report

|                             |         |                                                  |            |              |            |            |               |                   |                 |                |  |
|-----------------------------|---------|--------------------------------------------------|------------|--------------|------------|------------|---------------|-------------------|-----------------|----------------|--|
| Company: Devon Energy, Inc. |         | Local Co-ordinate Reference:                     |            |              |            |            |               |                   |                 |                |  |
| Project: Eddy County        |         | TVD Reference: KB = 26.2 @ 3432.40usft (H&P 300) |            |              |            |            |               |                   |                 |                |  |
| Site: Rigel 20 Federal Com  |         | MD Reference: KB = 26.2 @ 3432.40usft (H&P 300)  |            |              |            |            |               |                   |                 |                |  |
| Well: 4H                    |         | North Reference: Grid                            |            |              |            |            |               |                   |                 |                |  |
| Wellbore: OH                |         | Survey Calculation Method: Minimum Curvature     |            |              |            |            |               |                   |                 |                |  |
| Design: Plan #1             |         | Database: EDM 5000.1 Single User Db              |            |              |            |            |               |                   |                 |                |  |
| Planned Survey:             |         |                                                  |            |              |            |            |               |                   |                 |                |  |
| MD (usft)                   | Inc (°) | Azi (azimuth) (°)                                | TVD (usft) | TVDSS (usft) | N/S (usft) | E/W (usft) | V. Sec (usft) | D/Leg (°/100usft) | Northing (usft) | Easting (usft) |  |
| 12,000.00                   | 89.74   | 90.01                                            | 8,891.57   | 5,459.17     | -1,321.57  | 2,731.30   | 2,989.22      | 0.00              | 596,766.52      | 677,784.71     |  |
| 12,050.00                   | 89.74   | 90.01                                            | 8,891.79   | 5,459.39     | -1,321.58  | 2,781.30   | 3,037.30      | 0.00              | 596,766.51      | 677,834.71     |  |
| 12,100.00                   | 89.74   | 90.01                                            | 8,892.02   | 5,459.62     | -1,321.59  | 2,831.30   | 3,085.38      | 0.00              | 596,766.50      | 677,884.71     |  |
| 12,150.00                   | 89.74   | 90.01                                            | 8,892.25   | 5,459.85     | -1,321.60  | 2,881.29   | 3,133.46      | 0.00              | 596,766.49      | 677,934.70     |  |
| 12,200.00                   | 89.74   | 90.01                                            | 8,892.47   | 5,460.07     | -1,321.61  | 2,931.29   | 3,181.54      | 0.00              | 596,766.48      | 677,984.70     |  |
| 12,250.00                   | 89.74   | 90.01                                            | 8,892.70   | 5,460.30     | -1,321.61  | 2,981.29   | 3,229.62      | 0.00              | 596,766.48      | 678,034.70     |  |
| 12,300.00                   | 89.74   | 90.01                                            | 8,892.93   | 5,460.53     | -1,321.62  | 3,031.29   | 3,277.70      | 0.00              | 596,766.47      | 678,084.70     |  |
| 12,350.00                   | 89.74   | 90.01                                            | 8,893.15   | 5,460.75     | -1,321.63  | 3,081.29   | 3,325.78      | 0.00              | 596,766.46      | 678,134.70     |  |
| 12,400.00                   | 89.74   | 90.01                                            | 8,893.38   | 5,460.98     | -1,321.64  | 3,131.29   | 3,373.86      | 0.00              | 596,766.45      | 678,184.70     |  |
| 12,450.00                   | 89.74   | 90.01                                            | 8,893.61   | 5,461.21     | -1,321.65  | 3,181.29   | 3,421.94      | 0.00              | 596,766.44      | 678,234.70     |  |
| 12,500.00                   | 89.74   | 90.01                                            | 8,893.84   | 5,461.44     | -1,321.65  | 3,231.29   | 3,470.01      | 0.00              | 596,766.44      | 678,284.70     |  |
| 12,550.00                   | 89.74   | 90.01                                            | 8,894.06   | 5,461.66     | -1,321.66  | 3,281.29   | 3,518.09      | 0.00              | 596,766.43      | 678,334.70     |  |
| 12,600.00                   | 89.74   | 90.01                                            | 8,894.29   | 5,461.89     | -1,321.67  | 3,331.29   | 3,566.17      | 0.00              | 596,766.42      | 678,384.70     |  |
| 12,650.00                   | 89.74   | 90.01                                            | 8,894.52   | 5,462.12     | -1,321.68  | 3,381.29   | 3,614.25      | 0.00              | 596,766.41      | 678,434.70     |  |
| 12,700.00                   | 89.74   | 90.01                                            | 8,894.74   | 5,462.34     | -1,321.69  | 3,431.29   | 3,662.33      | 0.00              | 596,766.40      | 678,484.70     |  |
| 12,750.00                   | 89.74   | 90.01                                            | 8,894.97   | 5,462.57     | -1,321.70  | 3,481.29   | 3,710.41      | 0.00              | 596,766.39      | 678,534.70     |  |
| 12,800.00                   | 89.74   | 90.01                                            | 8,895.20   | 5,462.80     | -1,321.70  | 3,531.29   | 3,758.49      | 0.00              | 596,766.39      | 678,584.70     |  |
| 12,850.00                   | 89.74   | 90.01                                            | 8,895.42   | 5,463.02     | -1,321.71  | 3,581.29   | 3,806.57      | 0.00              | 596,766.38      | 678,634.70     |  |
| 12,900.00                   | 89.74   | 90.01                                            | 8,895.65   | 5,463.25     | -1,321.72  | 3,631.29   | 3,854.65      | 0.00              | 596,766.37      | 678,684.70     |  |
| 12,950.00                   | 89.74   | 90.01                                            | 8,895.88   | 5,463.48     | -1,321.73  | 3,681.29   | 3,902.73      | 0.00              | 596,766.36      | 678,734.70     |  |
| 13,000.00                   | 89.74   | 90.01                                            | 8,896.10   | 5,463.70     | -1,321.74  | 3,731.29   | 3,950.81      | 0.00              | 596,766.35      | 678,784.70     |  |
| 13,050.00                   | 89.74   | 90.01                                            | 8,896.33   | 5,463.93     | -1,321.74  | 3,781.29   | 3,998.89      | 0.00              | 596,766.35      | 678,834.70     |  |
| 13,100.00                   | 89.74   | 90.01                                            | 8,896.56   | 5,464.16     | -1,321.75  | 3,831.29   | 4,046.96      | 0.00              | 596,766.34      | 678,884.70     |  |
| 13,150.00                   | 89.74   | 90.01                                            | 8,896.78   | 5,464.38     | -1,321.76  | 3,881.28   | 4,095.04      | 0.00              | 596,766.33      | 678,934.69     |  |
| 13,200.00                   | 89.74   | 90.01                                            | 8,897.01   | 5,464.61     | -1,321.77  | 3,931.28   | 4,143.12      | 0.00              | 596,766.32      | 678,984.69     |  |
| 13,250.00                   | 89.74   | 90.01                                            | 8,897.24   | 5,464.84     | -1,321.78  | 3,981.28   | 4,191.20      | 0.00              | 596,766.31      | 679,034.69     |  |
| 13,300.00                   | 89.74   | 90.01                                            | 8,897.47   | 5,465.07     | -1,321.78  | 4,031.28   | 4,239.28      | 0.00              | 596,766.31      | 679,084.69     |  |

# Pathfinder

## Pathfinder X & Y Report

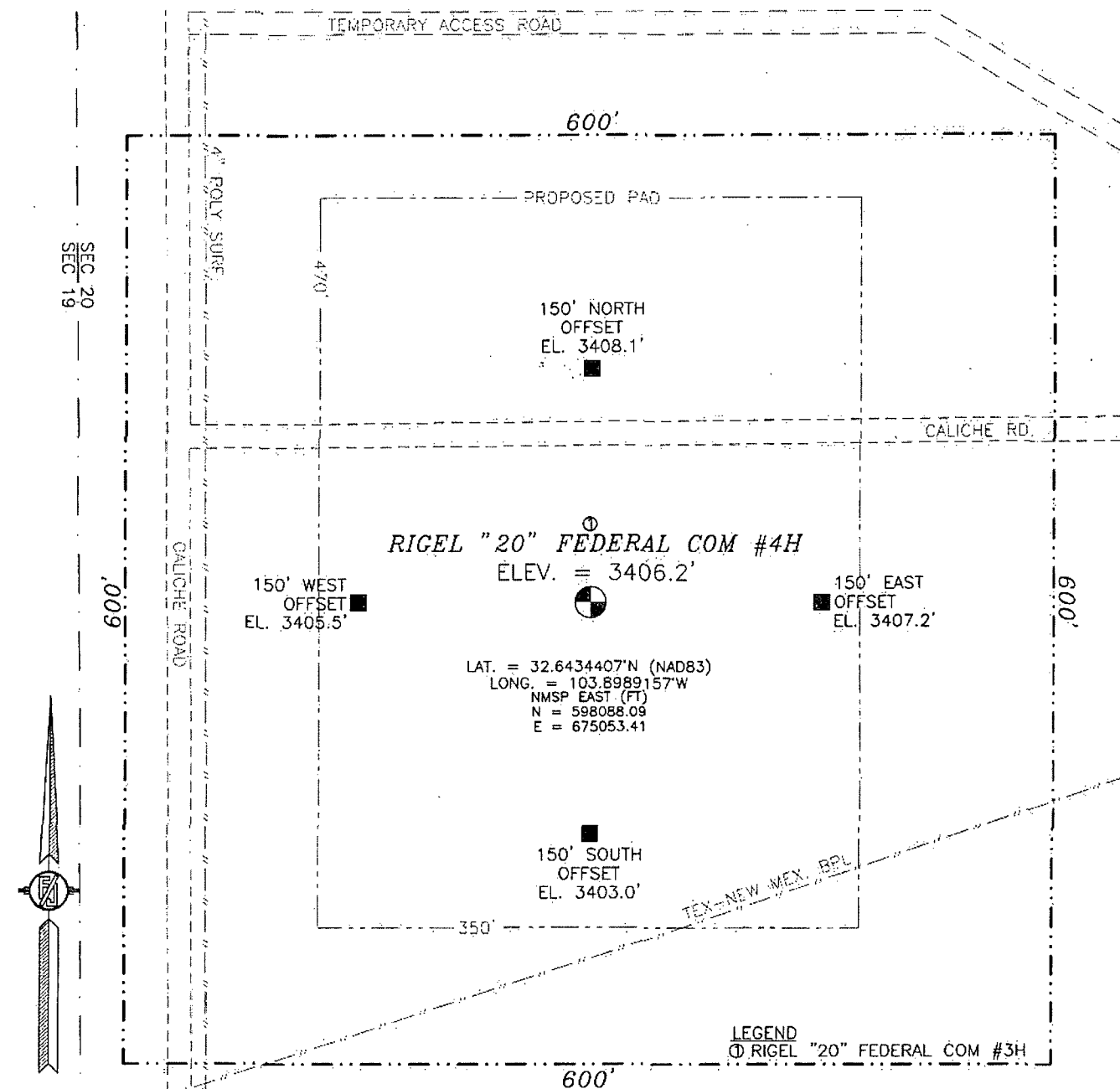
|                             |            |                              |               |                                   |               |              |                  |                      |                    |                   |  |
|-----------------------------|------------|------------------------------|---------------|-----------------------------------|---------------|--------------|------------------|----------------------|--------------------|-------------------|--|
| Company: Devon Energy, Inc. |            | Local Co-ordinate Reference: |               | Well 4H                           |               |              |                  |                      |                    |                   |  |
| Project: Eddy County        |            | TVD Reference:               |               | KB = 26.2 @ 3432.40usft (H&P 300) |               |              |                  |                      |                    |                   |  |
| Site: Rigel 20 Federal Com  |            | MD Reference:                |               | KB = 26.2 @ 3432.40usft (H&P 300) |               |              |                  |                      |                    |                   |  |
| Well: 4H                    |            | North Reference:             |               | Grid                              |               |              |                  |                      |                    |                   |  |
| Wellbore: OH                |            | Survey Calculation Method:   |               | Minimum Curvature                 |               |              |                  |                      |                    |                   |  |
| Design: Plan #1             |            | Database:                    |               | EDM 5000.1 Single User Db         |               |              |                  |                      |                    |                   |  |
| Planned Survey              |            |                              |               |                                   |               |              |                  |                      |                    |                   |  |
| MD<br>(usft)                | Inc<br>(°) | Azi (azimuth)<br>(°)         | TVD<br>(usft) | TVSS<br>(usft)                    | N/S<br>(usft) | EW<br>(usft) | V. Sec<br>(usft) | D/Lag<br>(°/100usft) | Northing<br>(usft) | Easting<br>(usft) |  |
| 13,350.00                   | 89.74      | 90.01                        | 8,897.69      | 5,465.29                          | -1,321.79     | 4,081.28     | 4,287.36         | 0.00                 | 596,766.30         | 679,134.69        |  |
| 13,400.00                   | 89.74      | 90.01                        | 8,897.92      | 5,465.52                          | -1,321.80     | 4,131.28     | 4,335.44         | 0.00                 | 596,766.29         | 679,184.69        |  |
| 13,450.00                   | 89.74      | 90.01                        | 8,898.15      | 5,465.75                          | -1,321.81     | 4,181.28     | 4,383.52         | 0.00                 | 596,766.28         | 679,234.69        |  |
| 13,500.00                   | 89.74      | 90.01                        | 8,898.37      | 5,465.97                          | -1,321.82     | 4,231.28     | 4,431.60         | 0.00                 | 596,766.27         | 679,284.69        |  |
| 13,550.00                   | 89.74      | 90.01                        | 8,898.60      | 5,466.20                          | -1,321.82     | 4,281.28     | 4,479.68         | 0.00                 | 596,766.27         | 679,334.69        |  |
| 13,600.00                   | 89.74      | 90.01                        | 8,898.83      | 5,466.43                          | -1,321.83     | 4,331.28     | 4,527.76         | 0.00                 | 596,766.26         | 679,384.69        |  |
| 13,650.00                   | 89.74      | 90.01                        | 8,899.05      | 5,466.65                          | -1,321.84     | 4,381.28     | 4,575.84         | 0.00                 | 596,766.25         | 679,434.69        |  |
| 13,700.00                   | 89.74      | 90.01                        | 8,899.28      | 5,466.88                          | -1,321.85     | 4,431.28     | 4,623.92         | 0.00                 | 596,766.24         | 679,484.69        |  |
| 13,750.00                   | 89.74      | 90.01                        | 8,899.51      | 5,467.11                          | -1,321.86     | 4,481.28     | 4,671.99         | 0.00                 | 596,766.23         | 679,534.69        |  |
| 13,800.00                   | 89.74      | 90.01                        | 8,899.73      | 5,467.33                          | -1,321.86     | 4,531.28     | 4,720.07         | 0.00                 | 596,766.23         | 679,584.69        |  |
| 13,850.00                   | 89.74      | 90.01                        | 8,899.96      | 5,467.56                          | -1,321.87     | 4,581.28     | 4,768.15         | 0.00                 | 596,766.22         | 679,634.69        |  |
| 13,898.37                   | 89.74      | 90.01                        | 8,900.18      | 5,467.78                          | -1,321.88     | 4,629.65     | 4,814.67         | 0.00                 | 596,766.21         | 679,683.06        |  |

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

SECTION 20, TOWNSHIP 19 SOUTH, RANGE 31 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO



010 50 100 200

SCALE 1" = 100'

DIRECTIONS TO LOCATION

FROM CR 222 AND CR 248 GO SOUTHWEST ON 222 4.3 MILES,  
TURN RIGHT ON CALICHE ROAD AND GO NORTH 1.45 MILES, AND  
LOCATION IS ON RIGHT 250'.

DEVON ENERGY PRODUCTION COMPANY, L.P.

**RIGEL "20" FEDERAL COM #4H**

LOCATED 1750 FT. FROM THE SOUTH LINE

AND 330 FT. FROM THE WEST LINE OF

SECTION 20, TOWNSHIP 19 SOUTH,

RANGE 31 EAST, N.M.P.M.

EDDY COUNTY, STATE OF NEW MEXICO.

AUGUST 11, 2011

SURVEY NO. 539

MADRON SURVEYING, INC.

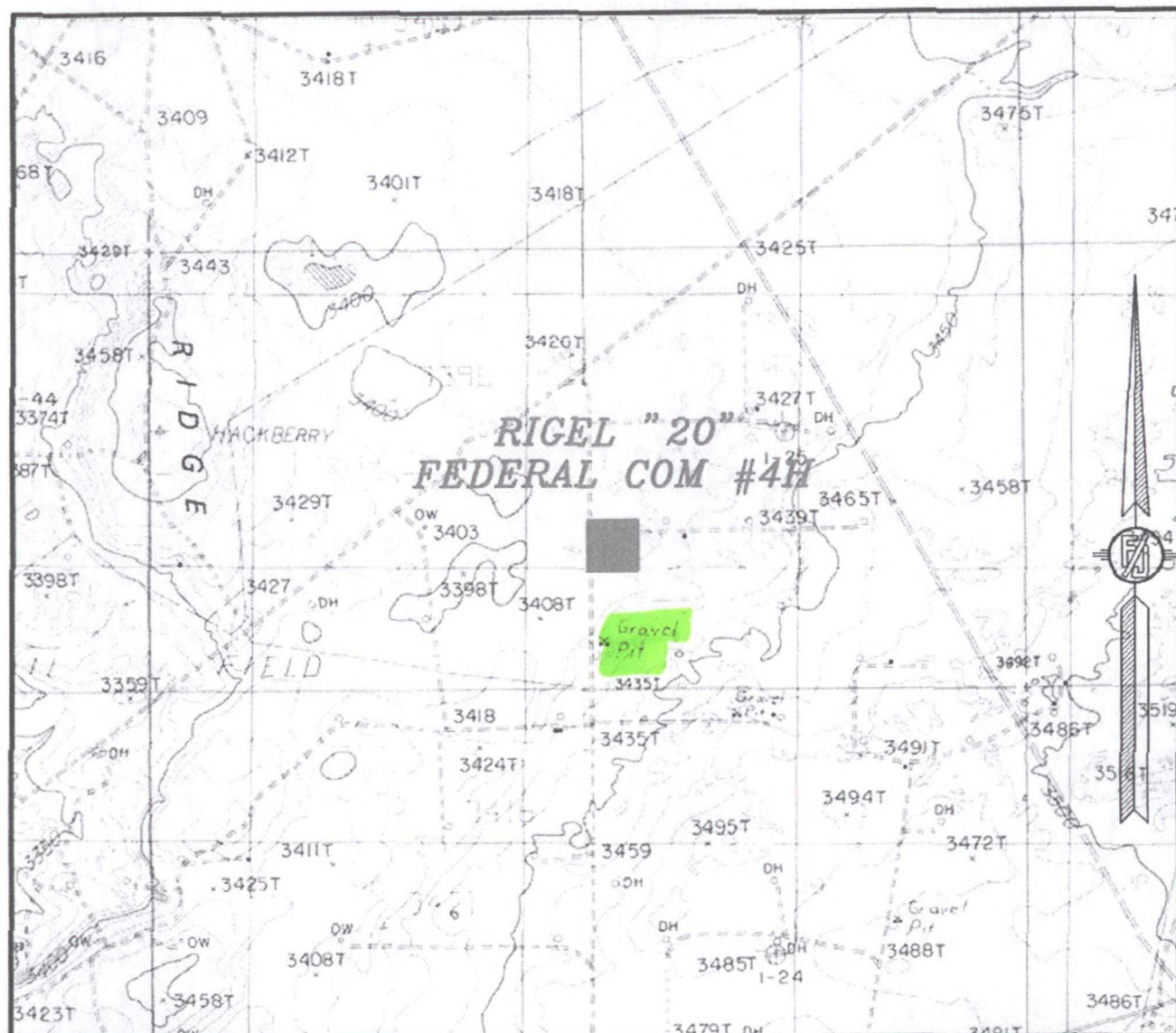
301 SOUTH CANAL  
(575) 887-5530

EXHIBIT

C



20, TOWNSHIP 19 SOUTH, RANGE 31 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO  
LOCATION VERIFICATION MAP



CONTOUR INTERVAL:  
HACKBERRY LAKE

NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P.  
RIGEL "20" FEDERAL COM #4H  
LOCATED 1750 FT. FROM THE SOUTH LINE  
AND 330 FT. FROM THE WEST LINE OF  
SECTION 20, TOWNSHIP 19 SOUTH,  
RANGE 31 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

AUGUST 11, 2011

*SURVEY NO. 539*

**MADRON SURVEYING, INC.** 301 SOUTH CANAL CARLSBAD, NEW MEXICO  
(575) 887-5830

**DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
CASE RECORDATION  
(MASS) Serial Register Page**

Run Time: 10:07 AM

Page 1 of 2

Run Date: 12/13/2011

01 02-25-1920;041STAT0437;30USC226

Total Acres

Serial Number

Case Type 311111: O&G LSE NONCOMP PUB LAND

160.000

NMLC-- 0 063642A

Commodity 459: OIL & GAS L

Case Disposition: AUTHORIZED

Serial Number: NMLC-- 0 063642A

| Name & Address |              |                      | Int Rel          | % Interest |
|----------------|--------------|----------------------|------------------|------------|
| CRAVEY HERMAN  | 1907 N CIELO | HOBBS NM 88240       | LESSEE           | 50.0000000 |
| CRAVEY HERMAN  | 1907 N CIELO | HOBBS NM 88240       | OPERATING RIGHTS | 0.0000000  |
| W J SWEATT     | PO BOX 827   | ARTESIA NM 882110827 | LESSEE           | 50.0000000 |

Serial Number: NMLC-- 0 063642A

| Mer Twp Rng Sec    | STyp | SNr Suff | Subdivision | District/Field Office | County | Mgmt Agency         |
|--------------------|------|----------|-------------|-----------------------|--------|---------------------|
| 23 0190S 0310E 020 | ALIQ |          | SW;         | CARLSBAD FIELD OFFICE | EDDY   | BUREAU OF LAND MGMT |

Relinquished/Withdrawn Lands

Serial Number: NMLC-- 0 063642A

|                    |    |            |                       |      |                     |
|--------------------|----|------------|-----------------------|------|---------------------|
| 23 0190S 0310E 720 | FF | SENE,ASGN; | CARLSBAD FIELD OFFICE | EDDY | BUREAU OF LAND MGMT |
|--------------------|----|------------|-----------------------|------|---------------------|

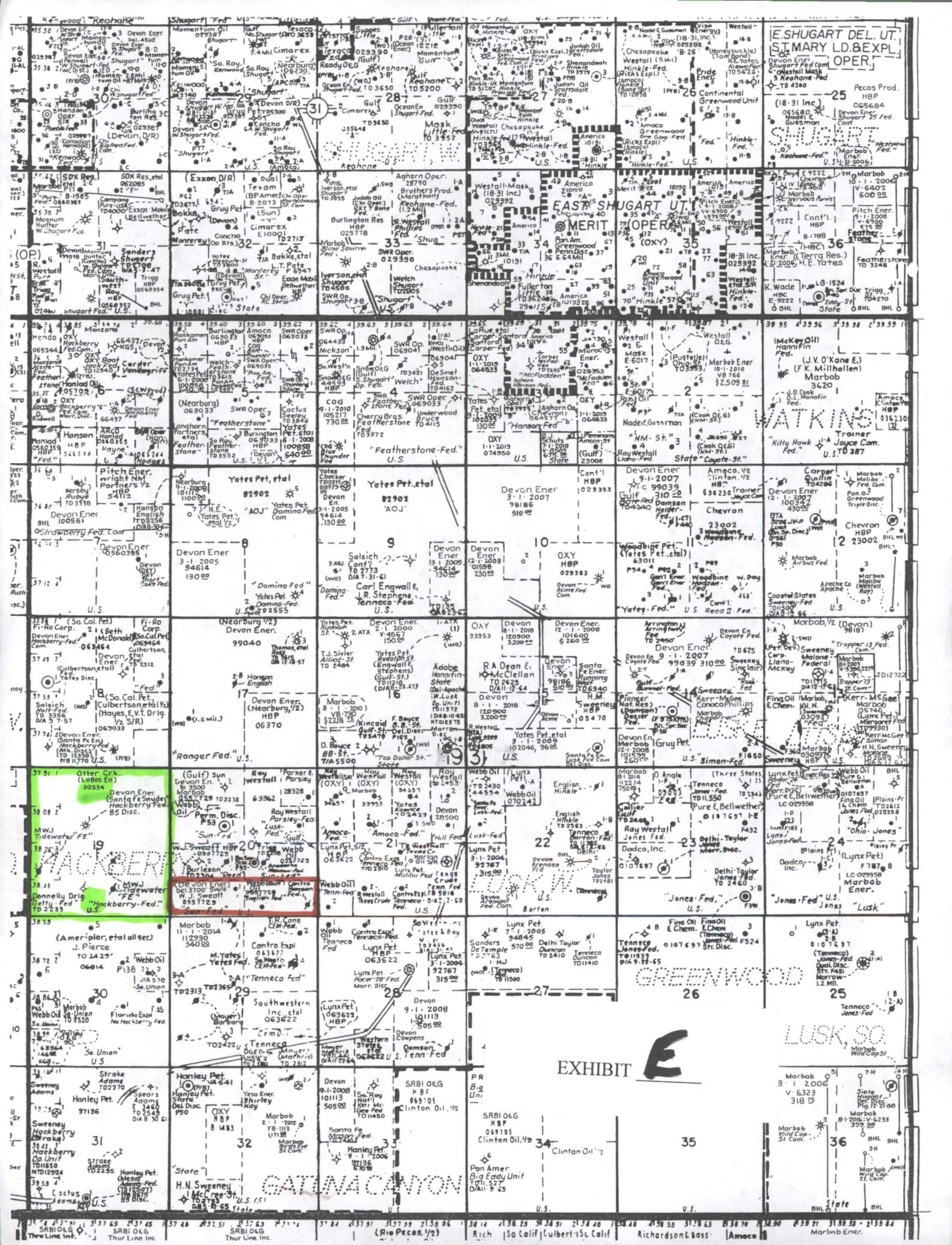
Serial Number: NMLC-- 0 063642A

| Act Date   | Code | Action                  | Action Remark      | Pending Office |
|------------|------|-------------------------|--------------------|----------------|
| 01/31/1948 | 387  | CASE ESTABLISHED        |                    |                |
| 02/01/1948 | 237  | LEASE ISSUED            |                    |                |
| 02/01/1948 | 496  | FUND CODE               | 05;145003          |                |
| 02/01/1948 | 530  | RLTY RATE - 12 1/2%     |                    |                |
| 02/01/1948 | 868  | EFFECTIVE DATE          |                    |                |
| 01/08/1954 | 140  | ASGN FILED              |                    |                |
| 02/04/1954 | 553  | CASE CREATED BY ASGN    | OUT OF NMLC063642; |                |
| 11/15/1956 | 102  | NOTICE SENT-PROD STATUS |                    |                |
| 01/24/1958 | 570  | CASE SEGREGATED BY ASGN | INTO NMLC063642-C; |                |
| 01/24/1958 | 570  | CASE SEGREGATED BY ASGN | INTO NMLC063642C;  |                |
| 12/24/1959 | 500  | GEOGRAPHIC NAME         | UNDEFINED FLD;     |                |
| 12/24/1959 | 510  | KMA CLASSIFIED          |                    |                |
| 12/24/1959 | 650  | HELD BY PROD - ACTUAL   |                    | CC             |
| 12/24/1959 | 658  | MEMO OF 1ST PROD-ACTUAL |                    |                |
| 03/20/1984 | 932  | TRF OPER RGTS FILED     |                    |                |
| 05/20/1985 | 932  | TRF OPER RGTS FILED     | (1)                |                |
| 05/20/1985 | 932  | TRF OPER RGTS FILED     | (2)                |                |
| 05/20/1985 | 932  | TRF OPER RGTS FILED     | (3)                |                |
| 05/20/1985 | 932  | TRF OPER RGTS FILED     | (4)                |                |
| 05/20/1985 | 932  | TRF OPER RGTS FILED     | (5)                |                |
| 10/15/1985 | 932  | TRF OPER RGTS FILED     | (1)                |                |
| 10/15/1985 | 932  | TRF OPER RGTS FILED     | (2)                |                |
| 06/04/1986 | 932  | TRF OPER RGTS FILED     | (1)                |                |
| 06/04/1986 | 932  | TRF OPER RGTS FILED     | (2)                |                |
| 06/30/1986 | 140  | ASGN FILED              | SUN EXPL/SUN OPER  |                |
| 06/30/1986 | 932  | TRF OPER RGTS FILED     | (1)                |                |
| 06/30/1986 | 932  | TRF OPER RGTS FILED     | (2)                |                |
| 08/27/1986 | 933  | TRF OPER RGTS APPROVED  | (1)EFF 06/01/85;   |                |
| 08/27/1986 | 933  | TRF OPER RGTS APPROVED  | (2)EFF 06/01/85;   |                |
| 08/27/1986 | 933  | TRF OPER RGTS APPROVED  | (3)EFF 06/01/85;   |                |
| 08/27/1986 | 933  | TRF OPER RGTS APPROVED  | (4)EFF 06/01/85;   |                |
| 08/27/1986 | 933  | TRF OPER RGTS APPROVED  | (5)EFF 06/01/85;   |                |
| 08/27/1986 | 933  | TRF OPER RGTS APPROVED  | (6)EFF 11/01/85;   |                |
| 08/27/1986 | 933  | TRF OPER RGTS APPROVED  | (7)EFF 07/01/86;   |                |

EXHIBIT

**D**







**Brooks, David K., EMNRD**

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**From:** Brooks, David K., EMNRD  
**Sent:** Wednesday, December 28, 2011 3:13 PM  
**To:** 'jamesbruc@aol.com'  
**Subject:** Devon - Rigel 20 Fed Com #4H - NSL Application

Dear Jim

Since the surface location of this well is outside of the project area, I know from experience that the Director will want to see an express representation in the application that no portion of the completed interval will be outside the S/2 S/2 of Section 20.

Thanks

David

**JAMES BRUCE**  
ATTORNEY AT LAW

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[jamesbruc@aol.com](mailto:jamesbruc@aol.com)

January 6, 2011

David K. Brooks  
Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

Re: Devon Energy Production Company, L.P.  
Well: Rigel 20 Fed. Com. Well No. 4H  
Surface location: 1750 feet FSL & 330 feet FWL  
Penetration point: Same as surface location  
Bottom hole location: 400 feet FSL & 330 feet FEL  
Well unit (project area): S½S½ of Section 20, Township 19 South, Range 31 East,  
N.M.P.M., Eddy County, New Mexico

Dear Mr. Brooks:

Pursuant to your e-mail of December 28, please be advised that no part of the completed interval will be outside of the S½S½ of Section 20. Please place that requirement in the order. Thank you.

Very truly yours,

James Bruce

Attorney for Devon Energy Production Company, L.P.