

Form 3160-3  
(February 2005)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0137  
Expires March 31, 20075 Lease Serial No.  
SL: NM 044594 BHL: NM 044594

6 If Indian, Allottee or Tribe Name

7 If Unit or CA Agreement, Name and No.

8 Lease Name and Well No.

Aquila 22 Fed Com 1H &lt;39414&gt;

9 API Well No.

30-015-40627

10 Field and Pool, or Exploratory

Lusk; Bone Spring, West &lt;41480&gt;

11 Sec, T R M or Blk and Survey or Area

Sec 22-T19S-R31E

12 County or Parish

Eddy

13 State

NM

1a Type of work. ☒ DRILL ☐ REENTER1b Type of Well ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone

2 Name of Operator

Devon Energy Production Co., LP

3a Address 20 North Broadway  
OKC, OK 731023b Phone No. (include area code)  
(405)-552-7802

4 Location of Well (Report location clearly and in accordance with any State requirements \*)

At surface NENE 990' FNL &amp; 50' FEL L A

At proposed prod zone NWNW 400' FNL &amp; 340' FWL L A D

14 Distance in miles and direction from nearest town or post office\*  
Approximately 14 miles southeast of Loco Hills, NM.15 Distance from proposed\*  
location to nearest  
property or lease line, ft  
(Also to nearest drig unit line, if any) 50'16 No of acres in lease  
SL: 520 & BHL: 4017 Spacing Unit dedicated to this well  
160 acres18 Distance from proposed location\*  
to nearest well, drilling, completed,  
applied for, on this lease, ft See Plat19 Proposed Depth  
MTVD 9150' MD 13831'20 BLM/BIA Bond No on file  
CO-1104 & NMB00080121 Elevations (Show whether DF, KDB, RT, GL, etc.)  
3535' GL22 Approximate date work will start\*  
05/15/201223 Estimated duration  
45 days

## 24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No 1, must be attached to this form

1 Well plat certified by a registered surveyor

2 A Drilling Plan

3 A Surface Use Plan (if the location is on National Forest System Lands, the  
SUPO must be filed with the appropriate Forest Service Office)4 Bond to cover the operations unless covered by an existing bond on file (see  
Item 20 above)

5 Operator certification

6 Such other site specific information and/or plans as may be required by the  
BLM

25. Signature

Name (Printed/Typed)

Stephanie A. Ysasaga

Date

03/20/2012

Title

Sr. Staff Engineering Technician

Approved by (Signature)

/s/ Don Peterson

Name (Printed/Typed)

/s/ Don Peterson

Date

AUG 17 2012

Title

FIELD MANAGER

Office

CARLSBAD FIELD OFFICE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to  
conduct operations thereon

Conditions of approval, if any, are attached

APPROVAL FOR TWO YEARS

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

\*(Instructions on page 2)

Capitan Controlled Water Basin

SEE ATTACHED FOR  
CONDITIONS OF APPROVALApproval Subject to General Requirements  
& Special Stipulations Attached

### Operators Representative:

The Devon Energy Production Company, L.P. representatives responsible for ensuring compliance of the surface use plan are listed below.

Steven Jones  
Operations Engineer Advisor

Jerry Mathews  
Superintendent

Devon Energy Production Company, L.P.  
20 North Broadway, Suite 1500  
Oklahoma City, OK 73102-8260

Devon Energy Production Company, L.P.  
Post Office Box 250  
Artesia, NM 88211-0250

(405) 552-7994 (office)  
(405) 596-8041 (cell)

(575) 748-0161 (office)  
(575) 748-5234 (cell)

### Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access road proposed herein; that I am familiar with the conditions that presently exist; that I have full knowledge of State and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or Devon Energy Production Company, L.P. am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

I hereby also certify that I, or Devon Energy Production Company, L.P. have made a good faith effort to provide the surface owner with a copy of the Surface Use Plan of Operations and any Conditions of Approval that are attached to the APD.

Executed this 20th day of March, 2012.

Printed Name: Stephanie A. Ysasaga

Signed Name: [Signature]

Position Title: Sr. Staff Engineering Technician

Address: 20 North Broadway, OKC OK 73102

Telephone: (405)-552-7802

Field Representative (if not above signatory): Jerry Mathews (see above)

Address (if different from above):

Telephone (if different from above):

E-mail (optional):

## 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 &amp; 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

|                                         |  |                                                                     |  |                                                   |                                  |
|-----------------------------------------|--|---------------------------------------------------------------------|--|---------------------------------------------------|----------------------------------|
| <sup>1</sup> API Number<br>30-015-40627 |  | <sup>2</sup> Pool Code<br>41480                                     |  | <sup>3</sup> Pool Name<br>LUSK; BONE SPRING, WEST |                                  |
| <sup>4</sup> Property Code<br>39414     |  | <sup>5</sup> Property Name<br>AQUILA 22 FED COM                     |  |                                                   | <sup>6</sup> Well Number<br>1H   |
| <sup>7</sup> OGRID No.<br>6137          |  | <sup>8</sup> Operator Name<br>DEVON ENERGY PRODUCTION COMPANY, L.P. |  |                                                   | <sup>9</sup> Elevation<br>3535.9 |

<sup>10</sup> Surface Location

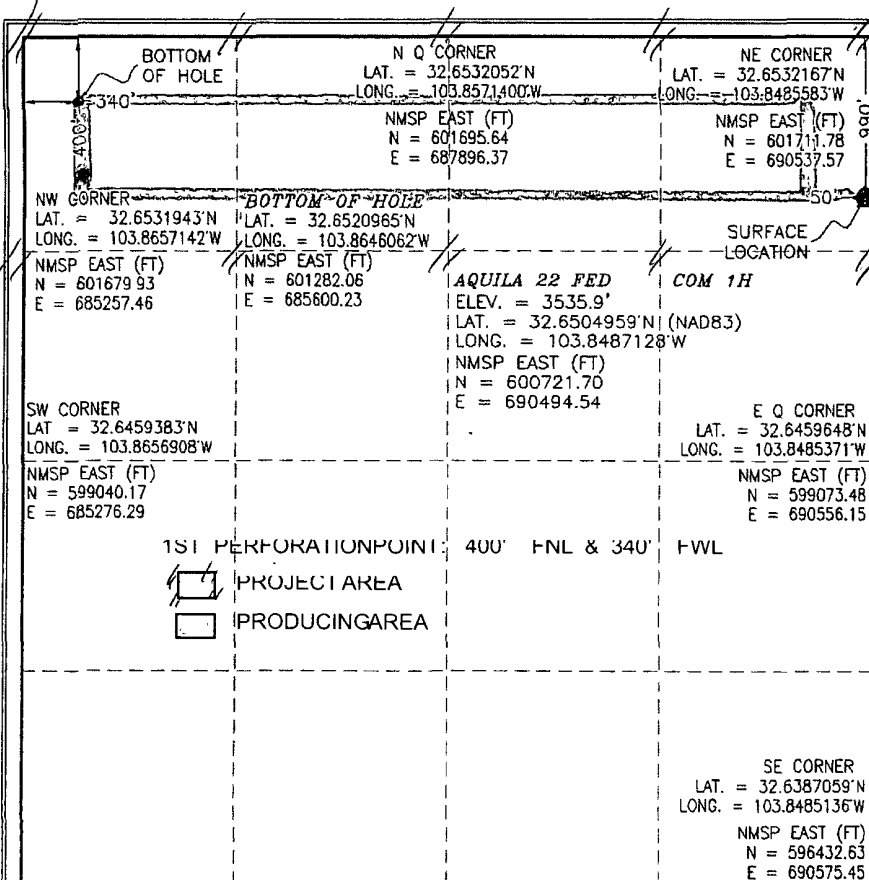
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| A             | 22      | 19 S     | 31 E  |         | 990           | NORTH            | 50            | EAST           | EDDY   |

<sup>11</sup> 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 |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| D             | 22      | 19 S     | 31 E  |         | 400           | NORTH            | 340           | WEST           | EDDY   |

|                                      |                               |                                  |                                       |
|--------------------------------------|-------------------------------|----------------------------------|---------------------------------------|
| <sup>12</sup> Dedicated Acres<br>160 | <sup>13</sup> Joint or Infill | <sup>14</sup> Consolidation Code | <sup>15</sup> Order No.<br>13831 8/17 |
|--------------------------------------|-------------------------------|----------------------------------|---------------------------------------|

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.

<sup>17</sup> 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: *[Signature]* Date: 8/13/12  
Printed Name: STEPHANIE A. YASAGA

<sup>18</sup> 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.

Signature and Seal of Professional Surveyor: *[Signature]*  
Certificate Number: 12797  
FEBRUARY 29, 2012  
Surveyed Land Surveyor  
SURVEY NO 853

# SECTION LAND PLAT

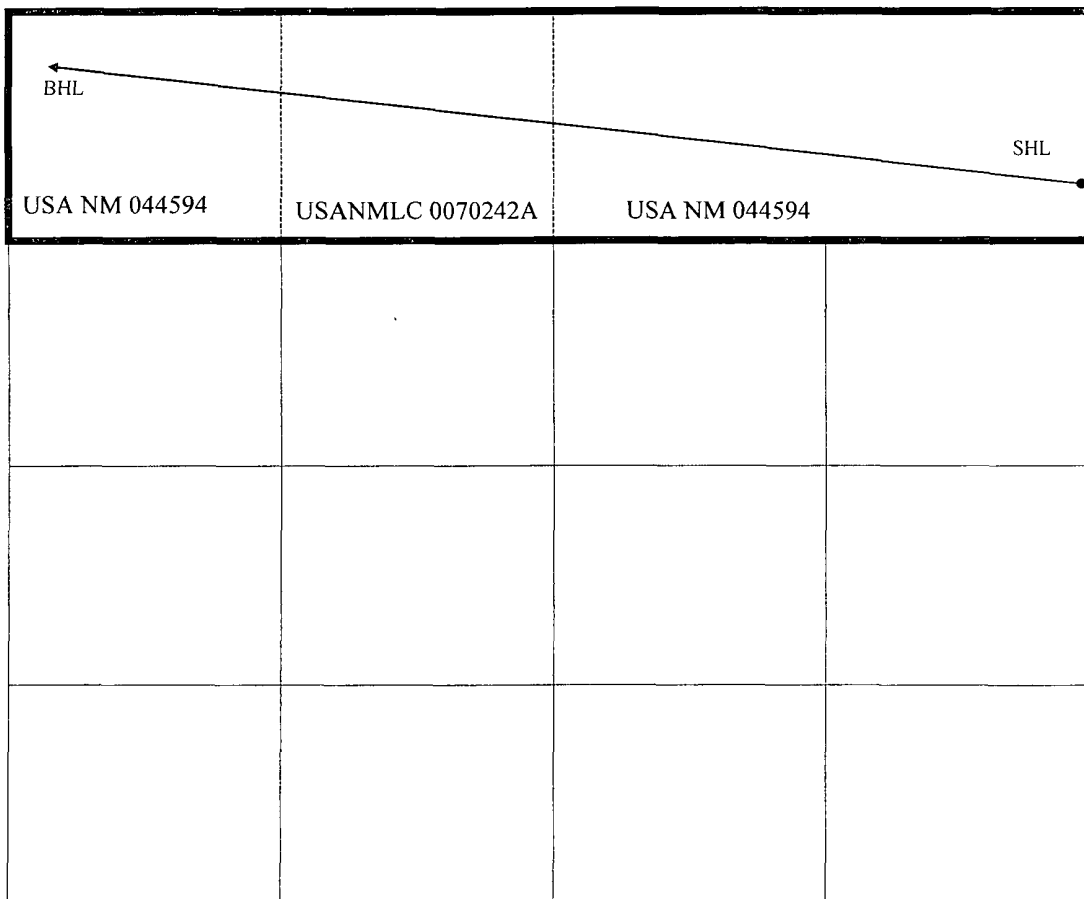
County Eddy State New Mexico

Section 22 Township 19 S Range 31 E

## Aquila 22 Fed Com 1 H

SHL: 990' FNL, 50' FEL

BHL: 400' FNL, 340' FWL



NMNM-44594 (520 acres)

NMLC-070242 (40 acres)

## DRILLING PROGRAM

Devon Energy Production Company, LP

### **Aquila 22 Fed Com 1H**

Surface Location: 990' FNL & 50' FEL, Unit A, Sec 22 T19S R31E, Eddy, NM

Bottom hole Location: 400' FNL & 340' FEL, Unit D, Sec 22 T19S R31E, Eddy, NM

#### **1. Geologic Name of Surface Formation**

a. Quaternary

#### **2. Estimated Tops of Geological Markers & Depths of Anticipated Fresh Water, Oil or Gas:**

|                                               |                      |             |
|-----------------------------------------------|----------------------|-------------|
| a. Quaternary Alluvium                        | 170'                 | Fresh Water |
| b. Rustler                                    | 565'                 | Barren      |
| c. Salado                                     | 825'                 | Barren      |
| d. Base Salado                                | 2140'                | Barren      |
| e. Tansil Dolomite                            | 2220'                | Barren      |
| f. Yates                                      | 2335'                | Barren      |
| g. Seven Rivers                               | 2550'                | Barren      |
| h. Capitan                                    | 2655'                | Barren      |
| i. B/Capitan                                  | 4225'                | Barren      |
| j. Delaware                                   | 4525'                | Oil         |
| k. Bone Springs                               | 6910'                | Oil         |
| l. 1 <sup>st</sup> Bone Spring Ss             | 8365'                | Oil         |
| m. 2 <sup>nd</sup> Bone Spring Lime           | 8685'                | Oil         |
| n. 2 <sup>nd</sup> Bone Spring Ss             | 9075'                | Oil         |
| o. 2 <sup>nd</sup> Bone Spring Up'r Ss        | 9015'                | Oil         |
| p. 2 <sup>nd</sup> Bone Spring Up'r Ss Base   | 9095'                | Oil         |
| q. 2 <sup>nd</sup> Bone Spring Middle Ss      | 9115'                | Oil         |
| r. 2 <sup>nd</sup> Bone Spring Middle Ss Base | 9215'                | Oil         |
| s. 3 <sup>rd</sup> Bone Spring Lm             | 9385'                | Oil         |
| t. Total Depth                                | MTVD 9150' MD 13831' |             |

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 20" casing at 650' and 13 3/8" casing at 2600' and circulating cement back to surface. The fresh water sands will be protected by setting 9 5/8" casing at 4300' and circulating cement to surface. The Delaware intervals will be isolated by setting 5 1/2" casing to total depth and circulating cement above the ~~base of the 9 5/8" casing~~. All casing is new and API approved.

*top of the Capitan Reef  
-per cement program.*

### 3. Casing Program:

| <u>Hole Size</u> | <u>Hole Interval</u> | <u>OD Csg</u> | <u>Casing Interval</u> | <u>Weight</u> | <u>Collar</u> | <u>Grade</u> |
|------------------|----------------------|---------------|------------------------|---------------|---------------|--------------|
| 26"              | 0-650'               | 20"           | 0-650'                 | 94#           | BTC           | J/K-55       |
| 17 1/2"          | 650-2600'            | 13 3/8"       | 0'-2600'               | 68#           | BTC           | J/K-55       |
| 12 1/4"          | 2600'-4300'          | 9 5/8"        | 0'-4300'               | 40#           | LTC           | J-55         |
| 8 3/4"           | 4300'-8300'          | 5 1/2"        | 0'-8300'               | 17#           | LTC           | HCP-110      |
| 8 3/4"           | 8300'-13831'         | 5 1/2"        | 8300'-13831'           | 17#           | BTC           | HCP-110      |

Max TVD: 9,150'

### Design Parameter Factors:

| <u>Casing Size</u> | <u>Collapse Design Factor</u> | <u>Burst Design Factor</u> | <u>Tension Design Factor</u> |
|--------------------|-------------------------------|----------------------------|------------------------------|
| 20"                | 2.46                          | 10.01                      | 31.42                        |
| 13 3/8"            | 1.44                          | 2.55                       | 3.82                         |
| 9 5/8"             | 1.22                          | 1.73                       | 2.95                         |
| 5 1/2" LTC         | 1.64                          | 2.02                       | 1.55                         |
| 5 1/2" BTC         | 1.84                          | 2.27                       | 5.22                         |

### 4. Cement Program: (Note: All cement volumes are based on 25% excesses.)

| <u>String</u>               | <u>Slurry</u>                                                     | <u>Amount and Type of Cement</u>                                                                                                                                               |
|-----------------------------|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Surface</b>              | <b>Lead</b>                                                       | 1,300 sacks Class C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Cello Flake + 4% bwoc Bentonite + 81.4% Fresh Water, 13.5 ppg, 1.75 cf/sk                               |
|                             | <b>Tail</b>                                                       | 300 sacks Class C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Cello Flake + 56.3% Fresh Water, 14.8 ppg, 1.35 cf/sk                                                     |
| <b>13-3/8" Intermediate</b> | <b>Lead</b>                                                       | 1,800 sacks (60:40) Poz (Fly Ash):Class C Cement + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 6% bwoc Bentonite + 107.8% Fresh Water, 12.5 ppg, 1.73 cf/sk         |
|                             | <b>Tail</b>                                                       | 400 sacks (60:40)Poz Class C Cement + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 0.4% bwoc Sodium Metasilicate + 4% bwoc MPA-5 + 52.7% Water, 13.8 ppg, 1.38 cf/sk |
| <b>9-5/8" Intermediate</b>  | <b>1<sup>st</sup> STAGE</b>                                       |                                                                                                                                                                                |
|                             | <b>Lead</b>                                                       | 600 sacks (60:40) Poz (Fly Ash):Class C Cement + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 6% bwoc Bentonite + 107.8% Fresh Water, 12.5 ppg, 1.73 cf/sk           |
|                             | <b>Tail</b>                                                       | 300 sacks (60:40)Poz Class C Cement + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 0.4% bwoc Sodium Metasilicate + 4% bwoc MPA-5 + 52.7% Water, 13.8 ppg, 1.38 cf/sk |
|                             | <b>2<sup>nd</sup> STAGE (DV tool and ECP at 2,600 ft) See COA</b> |                                                                                                                                                                                |

|                   |                                                   |                                                                                                                                                                                                                                |
|-------------------|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   | <b>Lead</b>                                       | 700 sacks (60:40) Poz (Fly Ash):Class C Cement + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 6% bwoc Bentonite + 107.8% Fresh Water, 12.5 ppg, 1.73 cf/sk                                                           |
|                   | <b>Tail</b>                                       | 200 sacks (60:40)Poz Class C Cement + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 0.4% bwoc Sodium Metasilicate + 4% bwoc MPA-5 + 52.7% Water, 13.8 ppg, 1.38 cf/sk                                                 |
| <b>Production</b> | <b>1<sup>st</sup> STAGE</b>                       |                                                                                                                                                                                                                                |
|                   | <b>Lead</b>                                       | 900 sacks (35:65) Poz (Fly Ash):Class H Cement + 5% bwow Sodium Chloride + 0.3% bwoc CD-32 + 0.5% bwoc FL-25 + 2% bwoc Bentonite + 0.6% bwoc Sodium Metasilicate + 0.5% bwoc FL-52A + 102.5% Fresh Water, 12.5 ppg, 2.00 cf/sk |
|                   | <b>Tail</b>                                       | 1,510 sacks (50:50) Poz (Fly Ash):Class H Cement + 1% bwow Sodium Chloride + 0.2% bwoc R-3 + 0.125 lbs/sack Cello Flake + 0.5% bwoc BA-10A + 4% bwoc MPA-5 + 58.3% Fresh Water, 14.2 ppg, 1.28 cf/sk                           |
|                   | <b>2<sup>nd</sup> STAGE (DV tool at 5,500 ft)</b> |                                                                                                                                                                                                                                |
|                   | <b>Lead</b>                                       | 800 sacks Class C Cement + 1% bwow Calcium Chloride + 0.125 lbs/sack Cello Flake + 157.8% Fresh Water, 11.4 ppg, 2.88 cf/sk                                                                                                    |
|                   | <b>Tail</b>                                       | 150 sacks (60:40) Poz (Fly Ash):Class C Cement + 1% bwow Sodium Chloride + 0.2% bwoc R-3 + 0.125 lbs/sack Cello Flake + 0.5% bwoc BA-10A + 4% bwoc MPA-5 + 63.2% Fresh Water, 13.8 ppg, 1.38 cf/sk                             |

| <b>String</b>        | <b>TOC</b> |
|----------------------|------------|
| 20" Surface          | Surface    |
| 13-3/8" Intermediate | Surface    |
| 9-5/8" Intermediate  | Surface    |
| 5-1/2" Production    | 2,400'     |

The above cement volumes could be revised pending the caliper measurement from the open hole logs. Actual cement volumes will be adjusted bases on fluid caliper and caliper log data.

5. **Pressure Control Equipment:** BOP DESIGN: The BOP system used to drill the **17-1/2" hole** will consist of a **20" 2M** Annular preventer. The BOP system will be tested as per BLM Onshore Oil and Gas Order No. 2 as a **2M system** prior to drilling out the surface casing shoe.

The BOP system used to drill the **12-1/4" and 8-3/4" holes** will consist of a **13-5/8" 3M Triple Ram and Annular preventer**. The BOP system will be tested as per BLM Onshore Oil and Gas Order No. 2 as a 3M system prior to drilling out each of the previous casing shoes. All tests will be in accordance with BLM Onshore Oil and Gas Order No. 2.

The pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and annular preventer, additional BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at 3,000 psi WP.

Devon requests a variance to use a flexible line with flanged ends between the BOP and the choke manifold (choke line). The line will be kept as straight as possible with minimal turns.

**6. Proposed Mud Circulation System**

| <u>Depth</u> | <u>Mud Wt.</u> | <u>Visc</u> | <u>Fluid Loss</u> | <u>Type System</u> |
|--------------|----------------|-------------|-------------------|--------------------|
| 0' – 650'    | 8.4-9.0        | 28-34       | NC                | Fresh Water        |
| 650'–2600'   | 9.8-10.0       | 28-32       | NC                | Brine              |
| 2600-4300'   | 8.4-9.0        | 28-32       | NC                | Fresh Water        |
| 4300'-13831' | 8.4-9.0        | 28-32       | NC-12             | Fresh Water        |

The necessary mud products for weight addition and fluid loss control will be on location at all times.

**7. Auxiliary Well Control and Monitoring Equipment:**

- a. A Kelly cock will be in the drill string at all times.
- b. A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times.
- c. Hydrogen Sulfide detection equipment will be in operation after drilling out the 20" casing shoe until the 5 1/2" casing is cemented. Breathing equipment will be on location upon drilling the 20" shoe until total depth is reached.

**8. Logging, Coring, and Testing Program: See COA**

- a. Drill stem tests will be based on geological sample shows.
- b. If a drill stem test is anticipated; a procedure, equipment to be used and safety measures will be provided via sundry notice to the BLM.
- c. The open hole electrical logging program will be:
  - i. Total Depth to Intermediate Casing      Dual Laterolog-Micro Laterolog with SP and Gamma Ray. Compensated Neutron – Z Density log with Gamma Ray and Caliper.
  - ii. Total Depth to Surface      Compensated Neutron with Gamma Ray
  - iii. No coring program is planned
  - iv. Additional testing will be initiated subsequent to setting the 5 1/2" production casing. Specific intervals will be targeted based on log evaluation, geological sample shows and drill stem tests.

**9. Potential Hazards:**

- a. No abnormal pressures or temperatures are expected. There is no known presence of H<sub>2</sub>S in this area. If H<sub>2</sub>S is encountered the operator will comply with the provisions of Onshore Oil and Gas Order No. 6. Possible lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP 3800 psi and Estimated BHT 140°. No H<sub>2</sub>S is anticipated to be encountered.

**10. Anticipated Starting Date and Duration of Operations:**

- a. Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon after BLM approval and as soon as a rig will be available. Move in operations and drilling is expected to take 32 days. If production casing is run then an additional 30 days will be needed to complete well and construct surface facilities and/or lay flow lines in order to place well on production.



## **Devon Energy, Inc.**

**Eddy County**

**Aquila 22 Fed Com**

**#1H**

**OH**

**Plan: Plan #1**

## **PathfinderX & Y Report**

**13 March, 2012**

**PATHFINDER®**

**A Schlumberger Company**



Pathfinder  
PathfinderX & Y Report

**PATHFINDER**  
A Schlumberger Company

|           |                    |                              |                                |
|-----------|--------------------|------------------------------|--------------------------------|
| Company:  | Devon Energy, Inc. | Local Co-ordinate Reference: | Well #1H                       |
| Project:  | Eddy County        | TVD Reference:               | KB = 26 @ 3561.9usft (H&P 300) |
| Site:     | Aquila 22 Fed Com  | MD Reference:                | KB = 26 @ 3561.9usft (H&P 300) |
| Well:     | #1H                | North Reference:             | Grid                           |
| Wellbore: | OH                 | Survey Calculation Method:   | Minimum Curvature              |
| Design:   | Plan #1            | Database:                    | EDM 5000.1 Single User Db      |

|             |                           |               |                |
|-------------|---------------------------|---------------|----------------|
| Project     |                           | Eddy County   |                |
| Map System: | US State Plane 1983       | System Datum: | Mean Sea Level |
| Geo Datum:  | North American Datum 1983 |               |                |
| Map Zone:   | New Mexico Eastern Zone   |               |                |

|                       |          |                   |                  |                   |                   |
|-----------------------|----------|-------------------|------------------|-------------------|-------------------|
| Site:                 |          | Aquila 22 Fed Com |                  |                   |                   |
| Site Position:        |          | Northing:         | 600,721.700 usft | Latitude:         | 32° 39' 1.785 N   |
| From:                 | Map      | Easting:          | 690,494.540 usft | Longitude:        | 103° 50' 55.366 W |
| Position Uncertainty: | 0.0 usft | Slot Radius:      | 13-3/16 "        | Grid Convergence: | 0.26 °            |

|                      |          |                     |           |                  |              |                   |
|----------------------|----------|---------------------|-----------|------------------|--------------|-------------------|
| Well                 |          | #1H                 |           |                  |              |                   |
| Well Position        | +N/-S    | 0.0 usft            | Northing: | 600,721.700 usft | Latitude:    | 32° 39' 1.785 N   |
|                      | +E/-W    | 0.0 usft            | Easting:  | 690,494.540 usft | Longitude:   | 103° 50' 55.366 W |
| Position Uncertainty | 0.0 usft | Wellhead Elevation: | usft      | Ground Level:    | 3,535.9 usft |                   |

|           |            |             |             |           |                |
|-----------|------------|-------------|-------------|-----------|----------------|
| Wellbore  | OH         |             |             |           |                |
| Magnetics | Model Name | Sample Date | Declination | Dip Angle | Field Strength |
|           |            |             | (°)         | (°)       | (nT)           |
|           | IGRF200510 | 3/13/2012   | 7.64        | 60.54     | 48,806         |

|                   |                            |                |                |                  |
|-------------------|----------------------------|----------------|----------------|------------------|
| Design            | Plan #1                    |                |                |                  |
| Audit Notes:      |                            |                |                |                  |
| Version:          | Phase:                     | PLAN           | Tie On Depth:  | 0.0              |
| Vertical Section: | Depth From (TVD)<br>(usft) | +N-S<br>(usft) | +E-W<br>(usft) | Direction<br>(°) |
|                   | 0.0                        | 0.0            | 0.0            | 276.53           |

|                      |              |                   |            |                |
|----------------------|--------------|-------------------|------------|----------------|
| Survey-Tool Program: |              | Date 3/13/2012    |            |                |
| From<br>(usft)       | To<br>(usft) | Survey (Wellbore) | Tool Name  | Description    |
| 0.0                  | 13,830.7     | Plan #1 (OH)      | Pathfinder | Pathfinder MWD |



Pathfinder  
PathfinderX & Y Report

**PATHFINDER**  
A Schlumberger Company

Company: Devon Energy, Inc.  
Project: Eddy County  
Site: Aquila 22 Fed Com  
Well: #1H  
Wellbore: OH  
Design: Plan #1

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

Well #1H  
KB = 26 @ 3561.9usft (H&P 300)  
KB = 26 @ 3561.9usft (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) | DLeg<br>(°/100usft) | Northing<br>(usft) | Easting<br>(usft) |
|--------------|------------|----------------------|---------------|-----------------|---------------|---------------|------------------|---------------------|--------------------|-------------------|
| 0.0          | 0.00       | 0.00                 | 0.0           | -3,561.9        | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 100.0        | 0.00       | 0.00                 | 100.0         | -3,461.9        | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 200.0        | 0.00       | 0.00                 | 200.0         | -3,361.9        | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 300.0        | 0.00       | 0.00                 | 300.0         | -3,261.9        | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 400.0        | 0.00       | 0.00                 | 400.0         | -3,161.9        | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 500.0        | 0.00       | 0.00                 | 500.0         | -3,061.9        | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 600.0        | 0.00       | 0.00                 | 600.0         | -2,961.9        | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 700.0        | 0.00       | 0.00                 | 700.0         | -2,861.9        | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 800.0        | 0.00       | 0.00                 | 800.0         | -2,761.9        | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 900.0        | 0.00       | 0.00                 | 900.0         | -2,661.9        | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 1,000.0      | 0.00       | 0.00                 | 1,000.0       | -2,561.9        | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 1,100.0      | 0.00       | 0.00                 | 1,100.0       | -2,461.9        | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 1,200.0      | 0.00       | 0.00                 | 1,200.0       | -2,361.9        | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 1,300.0      | 0.00       | 0.00                 | 1,300.0       | -2,261.9        | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 1,400.0      | 0.00       | 0.00                 | 1,400.0       | -2,161.9        | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 1,500.0      | 0.00       | 0.00                 | 1,500.0       | -2,061.9        | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 1,600.0      | 0.00       | 0.00                 | 1,600.0       | -1,961.9        | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 1,700.0      | 0.00       | 0.00                 | 1,700.0       | -1,861.9        | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 1,800.0      | 0.00       | 0.00                 | 1,800.0       | -1,761.9        | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 1,900.0      | 0.00       | 0.00                 | 1,900.0       | -1,661.9        | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 2,000.0      | 0.00       | 0.00                 | 2,000.0       | -1,561.9        | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 2,100.0      | 0.00       | 0.00                 | 2,100.0       | -1,461.9        | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 2,200.0      | 0.00       | 0.00                 | 2,200.0       | -1,361.9        | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 2,300.0      | 0.00       | 0.00                 | 2,300.0       | -1,261.9        | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 2,400.0      | 0.00       | 0.00                 | 2,400.0       | -1,161.9        | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 2,500.0      | 0.00       | 0.00                 | 2,500.0       | -1,061.9        | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 2,600.0      | 0.00       | 0.00                 | 2,600.0       | -961.9          | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |



Pathfinder  
PathfinderX & Y Report



Company: Devon Energy, Inc.  
Project: Eddy County  
Site: Aquila 22 Fed Com  
Well: #1H  
Wellbore: OH  
Design: Plan #1

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

Well #1H  
KB = 26 @ 3561.9usft (H&P 300)  
KB = 26 @ 3561.9usft (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) | DLeg<br>(°/100usft) | Northing<br>(usft) | Easting<br>(usft) |
|--------------|------------|----------------------|---------------|-----------------|---------------|---------------|------------------|---------------------|--------------------|-------------------|
| 2,700.0      | 0.00       | 0.00                 | 2,700.0       | -861.9          | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 2,800.0      | 0.00       | 0.00                 | 2,800.0       | -761.9          | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 2,900.0      | 0.00       | 0.00                 | 2,900.0       | -661.9          | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 3,000.0      | 0.00       | 0.00                 | 3,000.0       | -561.9          | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 3,100.0      | 0.00       | 0.00                 | 3,100.0       | -461.9          | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 3,200.0      | 0.00       | 0.00                 | 3,200.0       | -361.9          | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 3,300.0      | 0.00       | 0.00                 | 3,300.0       | -261.9          | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 3,400.0      | 0.00       | 0.00                 | 3,400.0       | -161.9          | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 3,500.0      | 0.00       | 0.00                 | 3,500.0       | -61.9           | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 3,600.0      | 0.00       | 0.00                 | 3,600.0       | 38.1            | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 3,700.0      | 0.00       | 0.00                 | 3,700.0       | 138.1           | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 3,800.0      | 0.00       | 0.00                 | 3,800.0       | 238.1           | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 3,900.0      | 0.00       | 0.00                 | 3,900.0       | 338.1           | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 4,000.0      | 0.00       | 0.00                 | 4,000.0       | 438.1           | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 4,100.0      | 0.00       | 0.00                 | 4,100.0       | 538.1           | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 4,200.0      | 0.00       | 0.00                 | 4,200.0       | 638.1           | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 4,300.0      | 0.00       | 0.00                 | 4,300.0       | 738.1           | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 4,400.0      | 0.00       | 0.00                 | 4,400.0       | 838.1           | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 4,500.0      | 0.00       | 0.00                 | 4,500.0       | 938.1           | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 4,600.0      | 0.00       | 0.00                 | 4,600.0       | 1,038.1         | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 4,700.0      | 0.00       | 0.00                 | 4,700.0       | 1,138.1         | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 4,800.0      | 0.00       | 0.00                 | 4,800.0       | 1,238.1         | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 4,900.0      | 0.00       | 0.00                 | 4,900.0       | 1,338.1         | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 5,000.0      | 0.00       | 0.00                 | 5,000.0       | 1,438.1         | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 5,100.0      | 0.00       | 0.00                 | 5,100.0       | 1,538.1         | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 5,200.0      | 0.00       | 0.00                 | 5,200.0       | 1,638.1         | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 5,300.0      | 0.00       | 0.00                 | 5,300.0       | 1,738.1         | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |



Pathfinder  
PathfinderX & Y Report

**PATHFINDER**  
A Schlumberger Company

Company: Devon Energy, Inc.  
Project: Eddy County  
Site: Aquila 22 Fed Com  
Well: #1H  
Wellbore: OH  
Design: Plan #1

Local Co-ordinate Reference: Well #1H  
TVD Reference: KB = 26 @ 3561.9usft (H&P 300)  
MD Reference: KB = 26 @ 3561.9usft (H&P 300)  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature  
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>(°/100usft) | Northing<br>(usft) | Easting<br>(usft) |
|--------------|------------|----------------------|---------------|-----------------|---------------|---------------|------------------|---------------------|--------------------|-------------------|
| 5,400.0      | 0.00       | 0.00                 | 5,400.0       | 1,838.1         | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 5,500.0      | 0.00       | 0.00                 | 5,500.0       | 1,938.1         | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 5,600.0      | 0.00       | 0.00                 | 5,600.0       | 2,038.1         | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 5,700.0      | 0.00       | 0.00                 | 5,700.0       | 2,138.1         | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 5,800.0      | 0.00       | 0.00                 | 5,800.0       | 2,238.1         | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 5,900.0      | 0.00       | 0.00                 | 5,900.0       | 2,338.1         | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 6,000.0      | 0.00       | 0.00                 | 6,000.0       | 2,438.1         | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 6,100.0      | 0.00       | 0.00                 | 6,100.0       | 2,538.1         | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 6,200.0      | 0.00       | 0.00                 | 6,200.0       | 2,638.1         | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 6,300.0      | 0.00       | 0.00                 | 6,300.0       | 2,738.1         | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 6,400.0      | 0.00       | 0.00                 | 6,400.0       | 2,838.1         | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 6,500.0      | 0.00       | 0.00                 | 6,500.0       | 2,938.1         | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 6,600.0      | 0.00       | 0.00                 | 6,600.0       | 3,038.1         | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 6,700.0      | 0.00       | 0.00                 | 6,700.0       | 3,138.1         | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 6,800.0      | 0.00       | 0.00                 | 6,800.0       | 3,238.1         | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 6,900.0      | 0.00       | 0.00                 | 6,900.0       | 3,338.1         | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 7,000.0      | 0.00       | 0.00                 | 7,000.0       | 3,438.1         | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 7,100.0      | 0.00       | 0.00                 | 7,100.0       | 3,538.1         | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 7,200.0      | 0.00       | 0.00                 | 7,200.0       | 3,638.1         | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 7,300.0      | 0.00       | 0.00                 | 7,300.0       | 3,738.1         | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 7,400.0      | 0.00       | 0.00                 | 7,400.0       | 3,838.1         | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 7,500.0      | 0.00       | 0.00                 | 7,500.0       | 3,938.1         | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 7,600.0      | 0.00       | 0.00                 | 7,600.0       | 4,038.1         | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 7,700.0      | 0.00       | 0.00                 | 7,700.0       | 4,138.1         | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 7,800.0      | 0.00       | 0.00                 | 7,800.0       | 4,238.1         | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 7,900.0      | 0.00       | 0.00                 | 7,900.0       | 4,338.1         | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 8,000.0      | 0.00       | 0.00                 | 8,000.0       | 4,438.1         | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |



Pathfinder  
PathfinderX & Y Report



Company: Devon Energy, Inc  
Project: Eddy County  
Site: Aquila 22 Fed Com  
Well: #1H  
Wellbore: OH  
Design: Plan #1

Local Co-ordinate Reference:  
TVD Reference:  
MID Reference:  
North Reference:  
Survey Calculation Method:  
Database:  
Well #1H  
KB = 26 @ 3561.9usft (H&P 300)  
KB = 26 @ 3561.9usft (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) | DLeg<br>(°/100usft) | Northing<br>(usft) | Easting<br>(usft) |
|--------------|------------|----------------------|---------------|-----------------|---------------|---------------|------------------|---------------------|--------------------|-------------------|
| 8,100.0      | 0.00       | 0.00                 | 8,100.0       | 4,538.1         | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 8,200.0      | 0.00       | 0.00                 | 8,200.0       | 4,638.1         | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 8,300.0      | 0.00       | 0.00                 | 8,300.0       | 4,738.1         | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 8,400.0      | 0.00       | 0.00                 | 8,400.0       | 4,838.1         | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 8,500.0      | 0.00       | 0.00                 | 8,500.0       | 4,938.1         | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 8,577.1      | 0.00       | 0.00                 | 8,577.1       | 5,015.2         | 0.0           | 0.0           | 0.0              | 0.00                | 600,721.70         | 690,494.54        |
| 8,600.0      | 2.29       | 276.53               | 8,600.0       | 5,038.1         | 0.1           | -0.5          | 0.5              | 10.00               | 600,721.75         | 690,494.09        |
| 8,650.0      | 7.29       | 276.53               | 8,649.8       | 5,087.9         | 0.5           | -4.6          | 4.6              | 10.00               | 600,722.23         | 690,489.94        |
| 8,700.0      | 12.29      | 276.53               | 8,699.1       | 5,137.2         | 1.5           | -13.0         | 13.1             | 10.00               | 600,723.19         | 690,481.49        |
| 8,750.0      | 17.29      | 276.53               | 8,747.4       | 5,185.5         | 2.9           | -25.7         | 25.9             | 10.00               | 600,724.65         | 690,468.82        |
| 8,800.0      | 22.29      | 276.53               | 8,794.4       | 5,232.5         | 4.9           | -42.5         | 42.8             | 10.00               | 600,726.57         | 690,452.00        |
| 8,850.0      | 27.29      | 276.53               | 8,839.8       | 5,277.9         | 7.3           | -63.4         | 63.8             | 10.00               | 600,728.95         | 690,431.18        |
| 8,900.0      | 32.29      | 276.53               | 8,883.2       | 5,321.3         | 10.1          | -88.0         | 88.6             | 10.00               | 600,731.78         | 690,406.51        |
| 8,950.0      | 37.29      | 276.53               | 8,924.2       | 5,362.3         | 13.3          | -116.4        | 117.1            | 10.00               | 600,735.02         | 690,378.18        |
| 9,000.0      | 42.29      | 276.53               | 8,962.6       | 5,400.7         | 17.0          | -148.1        | 149.1            | 10.00               | 600,738.66         | 690,346.39        |
| 9,050.0      | 47.29      | 276.53               | 8,998.1       | 5,436.2         | 21.0          | -183.1        | 184.3            | 10.00               | 600,742.67         | 690,311.41        |
| 9,100.0      | 52.29      | 276.53               | 9,030.4       | 5,468.5         | 25.3          | -221.1        | 222.5            | 10.00               | 600,747.01         | 690,273.48        |
| 9,150.0      | 57.29      | 276.53               | 9,059.2       | 5,497.3         | 30.0          | -261.6        | 263.3            | 10.00               | 600,751.65         | 690,232.91        |
| 9,200.0      | 62.29      | 276.53               | 9,084.3       | 5,522.4         | 34.9          | -304.5        | 306.5            | 10.00               | 600,756.57         | 690,190.00        |
| 9,250.0      | 67.29      | 276.53               | 9,105.6       | 5,543.7         | 40.0          | -349.5        | 351.8            | 10.00               | 600,761.71         | 690,145.07        |
| 9,300.0      | 72.29      | 276.53               | 9,122.9       | 5,561.0         | 45.3          | -396.1        | 398.7            | 10.00               | 600,767.05         | 690,098.46        |
| 9,350.0      | 77.29      | 276.53               | 9,136.0       | 5,574.1         | 50.8          | -444.0        | 446.9            | 10.00               | 600,772.53         | 690,050.54        |
| 9,400.0      | 82.29      | 276.53               | 9,144.9       | 5,583.0         | 56.4          | -492.9        | 496.1            | 10.00               | 600,778.13         | 690,001.67        |
| 9,450.0      | 87.29      | 276.53               | 9,149.4       | 5,587.5         | 62.1          | -542.3        | 545.9            | 10.00               | 600,783.79         | 689,952.22        |
| 9,485.0      | 90.79      | 276.53               | 9,150.0       | 5,588.1         | 66.1          | -577.1        | 580.9            | 10.00               | 600,787.77         | 689,917.44        |
| 9,500.0      | 90.79      | 276.53               | 9,149.8       | 5,587.9         | 67.8          | -592.0        | 595.9            | 0.00                | 600,789.48         | 689,902.55        |
| 9,600.0      | 90.79      | 276.53               | 9,148.4       | 5,586.5         | 79.2          | -691.3        | 695.8            | 0.00                | 600,800.85         | 689,803.21        |



Pathfinder  
PathfinderX & Y Report

**PATHFINDER**  
A Schlumberger Company

Company: Devon Energy, Inc.  
Project: Eddy County  
Site: Aquila 22 Fed Com  
Well: #1H  
Wellbore: OH  
Design: Plan #1

Local Co-ordinate Reference:  
TVD Reference:  
MD Reference:  
North Reference:  
Survey Calculation Method:  
Database:  
Well #1H  
KB = 26 @ 3561.9usft (H&P 300)  
KB = 26 @ 3561.9usft (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) | DLeg<br>(°/100usft) | Northing<br>(usft) | Easting<br>(usft) |
|--------------|------------|----------------------|---------------|-----------------|---------------|---------------|------------------|---------------------|--------------------|-------------------|
| 9,700.0      | 90.79      | 276.53               | 9,147.0       | 5,585.1         | 90.5          | -790.7        | 795.8            | 0.00                | 600,812.23         | 689,703.87        |
| 9,800.0      | 90.79      | 276.53               | 9,145.7       | 5,583.8         | 101.9         | -890.0        | 895.8            | 0.00                | 600,823.60         | 689,604.53        |
| 9,900.0      | 90.79      | 276.53               | 9,144.3       | 5,582.4         | 113.3         | -989.4        | 995.8            | 0.00                | 600,834.97         | 689,505.19        |
| 10,000.0     | 90.79      | 276.53               | 9,142.9       | 5,581.0         | 124.6         | -1,088.7      | 1,095.8          | 0.00                | 600,846.35         | 689,405.84        |
| 10,100.0     | 90.79      | 276.53               | 9,141.5       | 5,579.6         | 136.0         | -1,188.0      | 1,195.8          | 0.00                | 600,857.72         | 689,306.50        |
| 10,200.0     | 90.79      | 276.53               | 9,140.1       | 5,578.2         | 147.4         | -1,287.4      | 1,295.8          | 0.00                | 600,869.09         | 689,207.16        |
| 10,300.0     | 90.79      | 276.53               | 9,138.8       | 5,576.9         | 158.8         | -1,386.7      | 1,395.8          | 0.00                | 600,880.47         | 689,107.82        |
| 10,400.0     | 90.79      | 276.53               | 9,137.4       | 5,575.5         | 170.1         | -1,486.1      | 1,495.8          | 0.00                | 600,891.84         | 689,008.48        |
| 10,500.0     | 90.79      | 276.53               | 9,136.0       | 5,574.1         | 181.5         | -1,585.4      | 1,595.8          | 0.00                | 600,903.22         | 688,909.14        |
| 10,600.0     | 90.79      | 276.53               | 9,134.6       | 5,572.7         | 192.9         | -1,684.7      | 1,695.8          | 0.00                | 600,914.59         | 688,809.79        |
| 10,700.0     | 90.79      | 276.53               | 9,133.2       | 5,571.3         | 204.3         | -1,784.1      | 1,795.7          | 0.00                | 600,925.96         | 688,710.45        |
| 10,800.0     | 90.79      | 276.53               | 9,131.8       | 5,569.9         | 215.6         | -1,883.4      | 1,895.7          | 0.00                | 600,937.34         | 688,611.11        |
| 10,900.0     | 90.79      | 276.53               | 9,130.5       | 5,568.6         | 227.0         | -1,982.8      | 1,995.7          | 0.00                | 600,948.71         | 688,511.77        |
| 11,000.0     | 90.79      | 276.53               | 9,129.1       | 5,567.2         | 238.4         | -2,082.1      | 2,095.7          | 0.00                | 600,960.09         | 688,412.43        |
| 11,100.0     | 90.79      | 276.53               | 9,127.7       | 5,565.8         | 249.8         | -2,181.5      | 2,195.7          | 0.00                | 600,971.46         | 688,313.09        |
| 11,200.0     | 90.79      | 276.53               | 9,126.3       | 5,564.4         | 261.1         | -2,280.8      | 2,295.7          | 0.00                | 600,982.83         | 688,213.75        |
| 11,300.0     | 90.79      | 276.53               | 9,124.9       | 5,563.0         | 272.5         | -2,380.1      | 2,395.7          | 0.00                | 600,994.21         | 688,114.40        |
| 11,400.0     | 90.79      | 276.53               | 9,123.6       | 5,561.7         | 283.9         | -2,479.5      | 2,495.7          | 0.00                | 601,005.58         | 688,015.06        |
| 11,500.0     | 90.79      | 276.53               | 9,122.2       | 5,560.3         | 295.3         | -2,578.8      | 2,595.7          | 0.00                | 601,016.95         | 687,915.72        |
| 11,600.0     | 90.79      | 276.53               | 9,120.8       | 5,558.9         | 306.6         | -2,678.2      | 2,695.7          | 0.00                | 601,028.33         | 687,816.38        |
| 11,700.0     | 90.79      | 276.53               | 9,119.4       | 5,557.5         | 318.0         | -2,777.5      | 2,795.6          | 0.00                | 601,039.70         | 687,717.04        |
| 11,800.0     | 90.79      | 276.53               | 9,118.0       | 5,556.1         | 329.4         | -2,876.8      | 2,895.6          | 0.00                | 601,051.08         | 687,617.70        |
| 11,900.0     | 90.79      | 276.53               | 9,116.7       | 5,554.8         | 340.7         | -2,976.2      | 2,995.6          | 0.00                | 601,062.45         | 687,518.36        |
| 12,000.0     | 90.79      | 276.53               | 9,115.3       | 5,553.4         | 352.1         | -3,075.5      | 3,095.6          | 0.00                | 601,073.82         | 687,419.01        |
| 12,100.0     | 90.79      | 276.53               | 9,113.9       | 5,552.0         | 363.5         | -3,174.9      | 3,195.6          | 0.00                | 601,085.20         | 687,319.67        |
| 12,200.0     | 90.79      | 276.53               | 9,112.5       | 5,550.6         | 374.9         | -3,274.2      | 3,295.6          | 0.00                | 601,096.57         | 687,220.33        |
| 12,300.0     | 90.79      | 276.53               | 9,111.1       | 5,549.2         | 386.2         | -3,373.6      | 3,395.6          | 0.00                | 601,107.94         | 687,120.99        |



Pathfinder  
PathfinderX & Y Report

**PATHFINDER**  
A Schlumberger Company

Company: Devon Energy, Inc.  
Project: Eddy County  
Site: Aquila 22 Fed Com  
Well: #1H  
Wellbore: OH  
Design: Plan #1

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Database:

Well #1H

KB = 26 @ 3561.9usft (H&P 300)

KB = 26 @ 3561.9usft (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) | DLeg<br>(°/100usft) | Northing<br>(usft) | Easting<br>(usft) |
|--------------|------------|----------------------|---------------|-----------------|---------------|---------------|------------------|---------------------|--------------------|-------------------|
| 12,400.0     | 90.79      | 276.53               | 9,109.8       | 5,547.9         | 397.6         | -3,472.9      | 3,495.6          | 0.00                | 601,119.32         | 687,021.65        |
| 12,500.0     | 90.79      | 276.53               | 9,108.4       | 5,546.5         | 409.0         | -3,572.2      | 3,595.6          | 0.00                | 601,130.69         | 686,922.31        |
| 12,600.0     | 90.79      | 276.53               | 9,107.0       | 5,545.1         | 420.4         | -3,671.6      | 3,695.6          | 0.00                | 601,142.07         | 686,822.97        |
| 12,700.0     | 90.79      | 276.53               | 9,105.6       | 5,543.7         | 431.7         | -3,770.9      | 3,795.6          | 0.00                | 601,153.44         | 686,723.62        |
| 12,800.0     | 90.79      | 276.53               | 9,104.2       | 5,542.3         | 443.1         | -3,870.3      | 3,895.5          | 0.00                | 601,164.81         | 686,624.28        |
| 12,900.0     | 90.79      | 276.53               | 9,102.9       | 5,541.0         | 454.5         | -3,969.6      | 3,995.5          | 0.00                | 601,176.19         | 686,524.94        |
| 13,000.0     | 90.79      | 276.53               | 9,101.5       | 5,539.6         | 465.9         | -4,068.9      | 4,095.5          | 0.00                | 601,187.56         | 686,425.60        |
| 13,100.0     | 90.79      | 276.53               | 9,100.1       | 5,538.2         | 477.2         | -4,168.3      | 4,195.5          | 0.00                | 601,198.94         | 686,326.26        |
| 13,200.0     | 90.79      | 276.53               | 9,098.7       | 5,536.8         | 488.6         | -4,267.6      | 4,295.5          | 0.00                | 601,210.31         | 686,226.92        |
| 13,300.0     | 90.79      | 276.53               | 9,097.3       | 5,535.4         | 500.0         | -4,367.0      | 4,395.5          | 0.00                | 601,221.68         | 686,127.57        |
| 13,400.0     | 90.79      | 276.53               | 9,095.9       | 5,534.0         | 511.4         | -4,466.3      | 4,495.5          | 0.00                | 601,233.06         | 686,028.23        |
| 13,500.0     | 90.79      | 276.53               | 9,094.6       | 5,532.7         | 522.7         | -4,565.6      | 4,595.5          | 0.00                | 601,244.43         | 685,928.89        |
| 13,600.0     | 90.79      | 276.53               | 9,093.2       | 5,531.3         | 534.1         | -4,665.0      | 4,695.5          | 0.00                | 601,255.80         | 685,829.55        |
| 13,700.0     | 90.79      | 276.53               | 9,091.8       | 5,529.9         | 545.5         | -4,764.3      | 4,795.5          | 0.00                | 601,267.18         | 685,730.21        |
| 13,800.0     | 90.79      | 276.53               | 9,090.4       | 5,528.5         | 556.9         | -4,863.7      | 4,895.4          | 0.00                | 601,278.55         | 685,630.87        |
| 13,830.8     | 90.79      | 276.53               | 9,090.0       | 5,528.1         | 560.4         | -4,894.3      | 4,926.3          | 0.00                | 601,282.06         | 685,600.23        |

Checked By

Approved By:

Date:



Project: Eddy County  
 Site: Aquila 22 Fed Com  
 Well: #1H  
 Wellbore: OH  
 Plan: Plan #1 (#1H/OH)



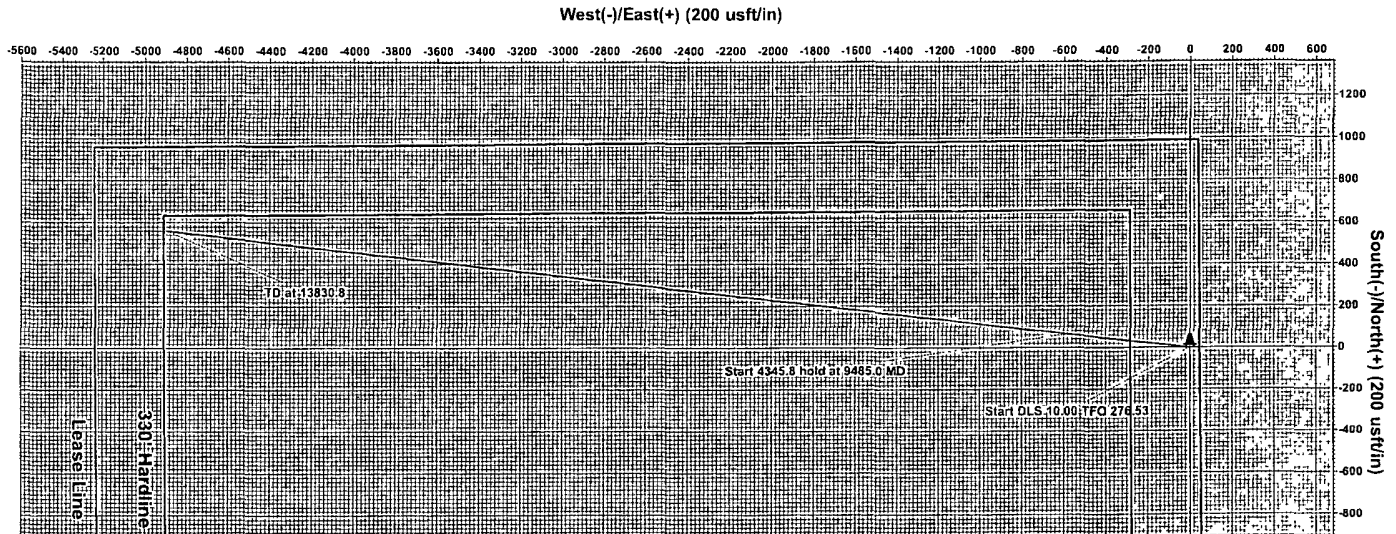
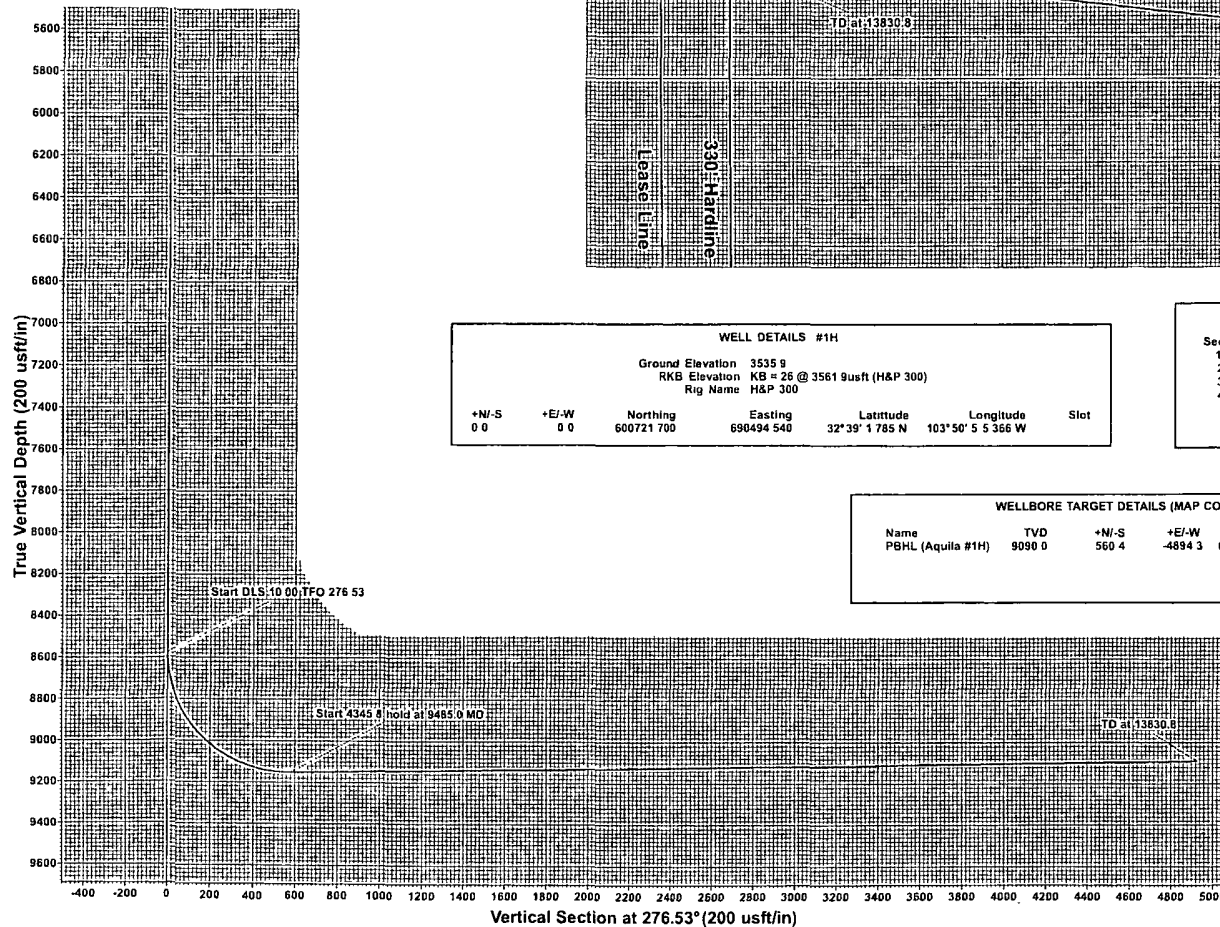
Azimuths to Grid North  
 True North: -0.26°  
 Magnetic North: 7.38°

Magnetic Field  
 Strength: 48806.2snT  
 Dip Angle: 60.54°  
 Date: 3/13/2012  
 Model: IGRF200510



A Schlumberger Company

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



| WELL DETAILS #1H                             |       |            |            |                 |                  |      |
|----------------------------------------------|-------|------------|------------|-----------------|------------------|------|
| Ground Elevation 3535.9                      |       |            |            |                 |                  |      |
| RKB Elevation KB = 26 @ 3561.9usft (H&P 300) |       |            |            |                 |                  |      |
| Rig Name H&P 300                             |       |            |            |                 |                  |      |
| +N/-S                                        | +E/-W | Northing   | Easting    | Latitude        | Longitude        | Slot |
| 0.0                                          | 0.0   | 600721.700 | 690494.540 | 32° 39' 1.785 N | 103° 50' 5.366 W |      |

| SECTION DETAILS |         |       |        |        |       |         |       |        |                          |
|-----------------|---------|-------|--------|--------|-------|---------|-------|--------|--------------------------|
| Sec             | MD      | Inc   | Azi    | TVD    | +N/-S | +E/-W   | Dleg  | TFace  | VSecl Target             |
| 1               | 0.0     | 0.00  | 0.00   | 0.0    | 0.0   | 0.0     | 0.00  | 0.00   | 0.0                      |
| 2               | 8577.1  | 0.00  | 0.00   | 8577.1 | 0.0   | 0.0     | 0.00  | 0.00   | 0.0                      |
| 3               | 9485.0  | 90.79 | 276.53 | 9150.0 | 66.1  | -577.1  | 10.00 | 276.53 | 580.9                    |
| 4               | 13830.8 | 90.79 | 276.53 | 9090.0 | 560.4 | -4894.3 | 0.00  | 0.00   | 4926.3 PBHL (Aquila #1H) |

| WELLBORE TARGET DETAILS (MAP CO-ORDINATES) |        |       |         |            |            |       |
|--------------------------------------------|--------|-------|---------|------------|------------|-------|
| Name                                       | TVD    | +N/-S | +E/-W   | Northing   | Easting    | Shape |
| PBHL (Aquila #1H)                          | 9090.0 | 560.4 | -4894.3 | 601282.060 | 685600.230 | Point |

Plan Plan #1 (#1H/OH)

Created By Sam Bittle Date: 9 25, March 13 2012

Checked \_\_\_\_\_ Date \_\_\_\_\_

Version: 10.00.00  
 Date: 11/11/2010  
 Author: J. J. J. J.  
 Title: J. J. J. J.  
 Page: 11

Attachment to Exhibit #1  
NOTES REGARDING BLOWOUT PREVENTERS  
Devon Energy Production Company, LP

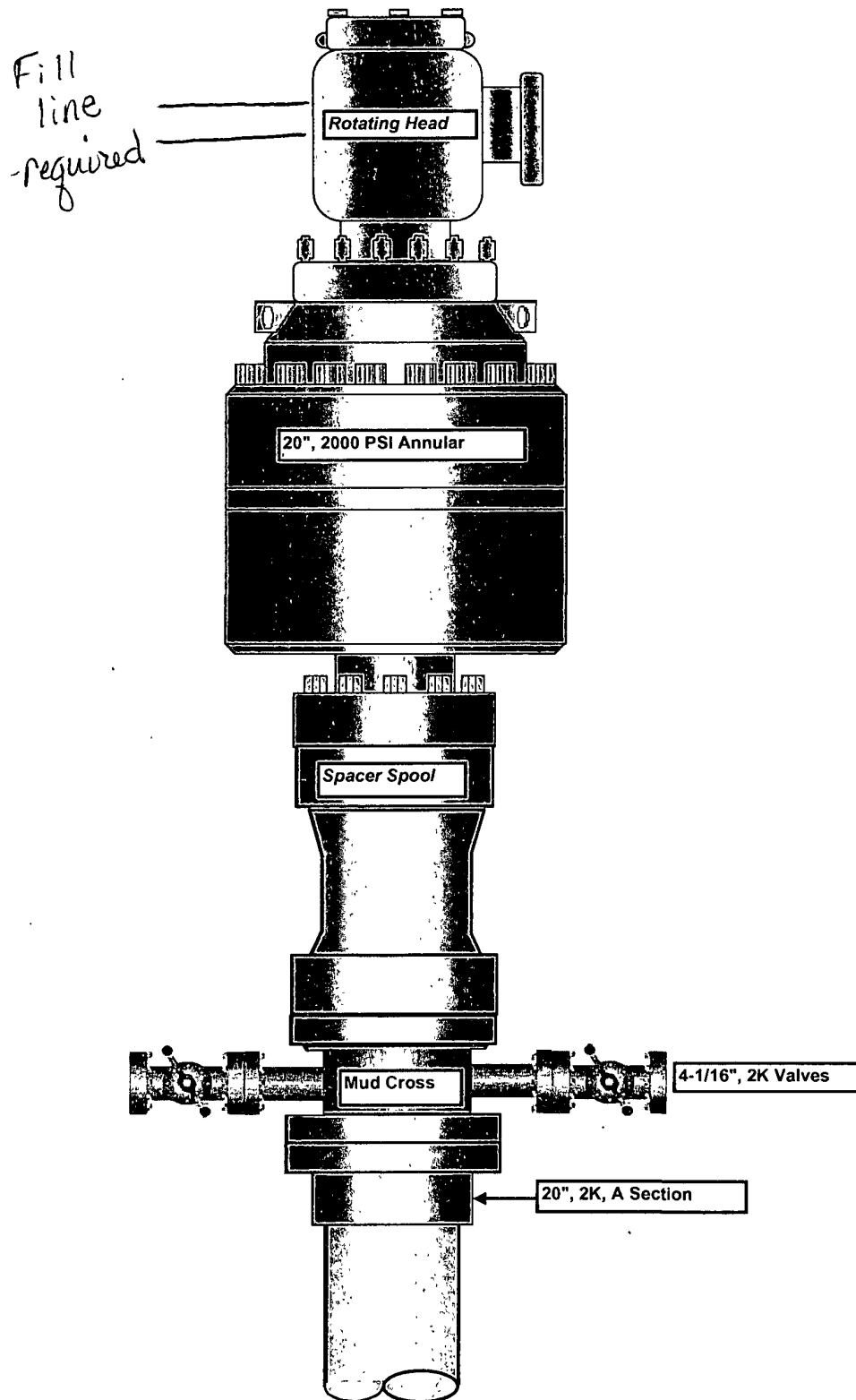
**Aquila 22 Fed Com 1H**

Surface Location: 990' FNL & 50' FEL, Unit A, Sec 22 T19S R31E, Eddy, NM

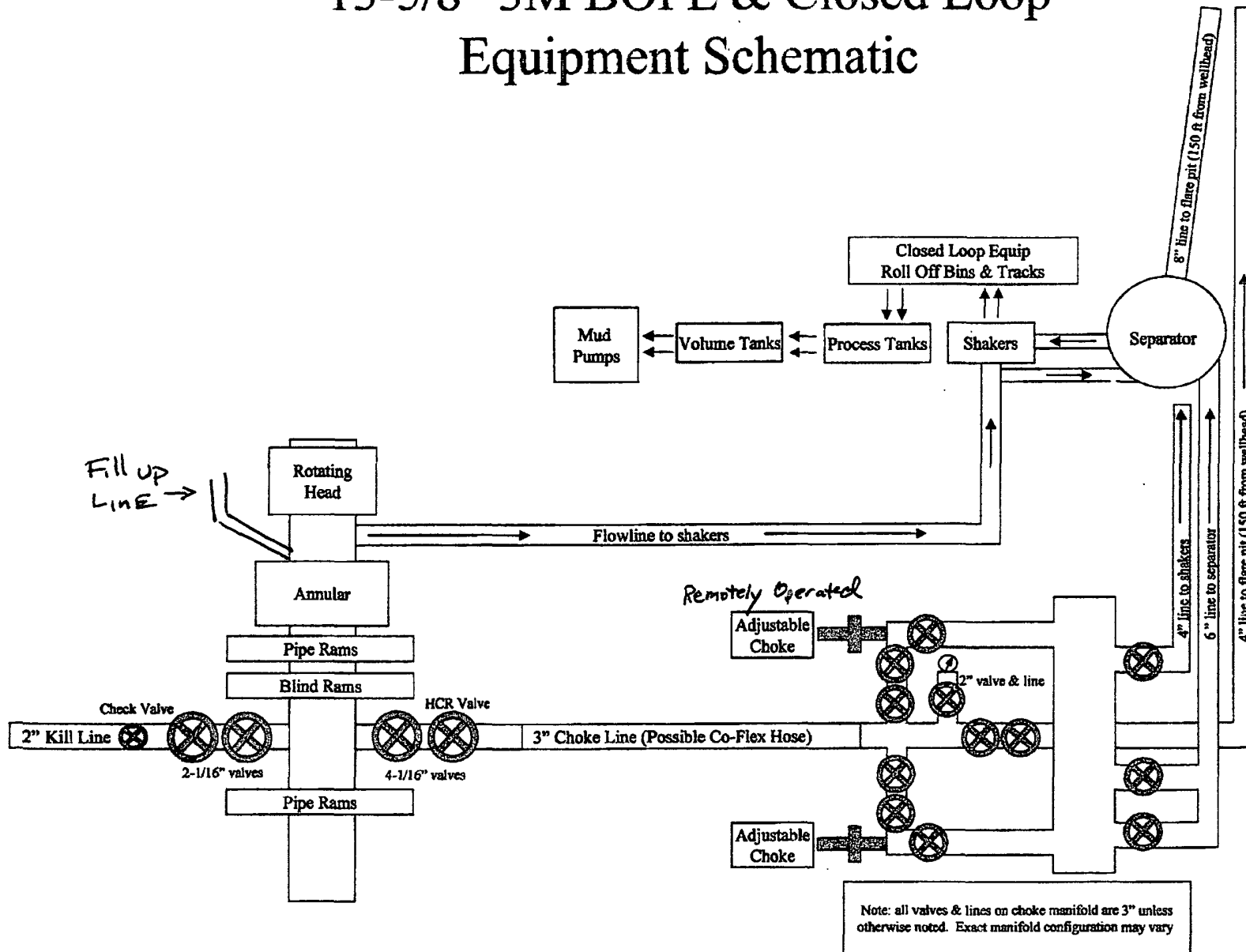
Bottom hole Location: 400' FNL & 340' FEL, Unit D, Sec 22 T19S R31E, Eddy, NM

1. Drilling nipple will be constructed so it can be removed mechanically without the aid of a welder. The minimum internal diameter will equal BOP bore.
2. Wear ring will be properly installed in head.
3. Blowout preventer and all associated fittings will be in operable condition to withstand a minimum 3000 psi working pressure.
4. All fittings will be flanged.
5. A full bore safety valve tested to a minimum 3000 psi WP with proper thread connections will be available on the rotary rig floor at all times.
6. All choke lines will be anchored to prevent movement.
7. All BOP equipment will be equal to or larger in bore than the internal diameter of the last casing string.
8. Will maintain a kelly cock attached to the kelly.
9. Hand wheels and wrenches will be properly installed and tested for safe operation.
10. Hydraulic floor control for blowout preventer will be located as near in proximity to driller's controls as possible.
11. All BOP equipment will meet API standards and include a minimum 40 gallon accumulator having two independent means of power to initiate closing operation.

20" 2K Annular



# 13-5/8" 3M BOPE & Closed Loop Equipment Schematic



# Hydrostatic Test Certificate

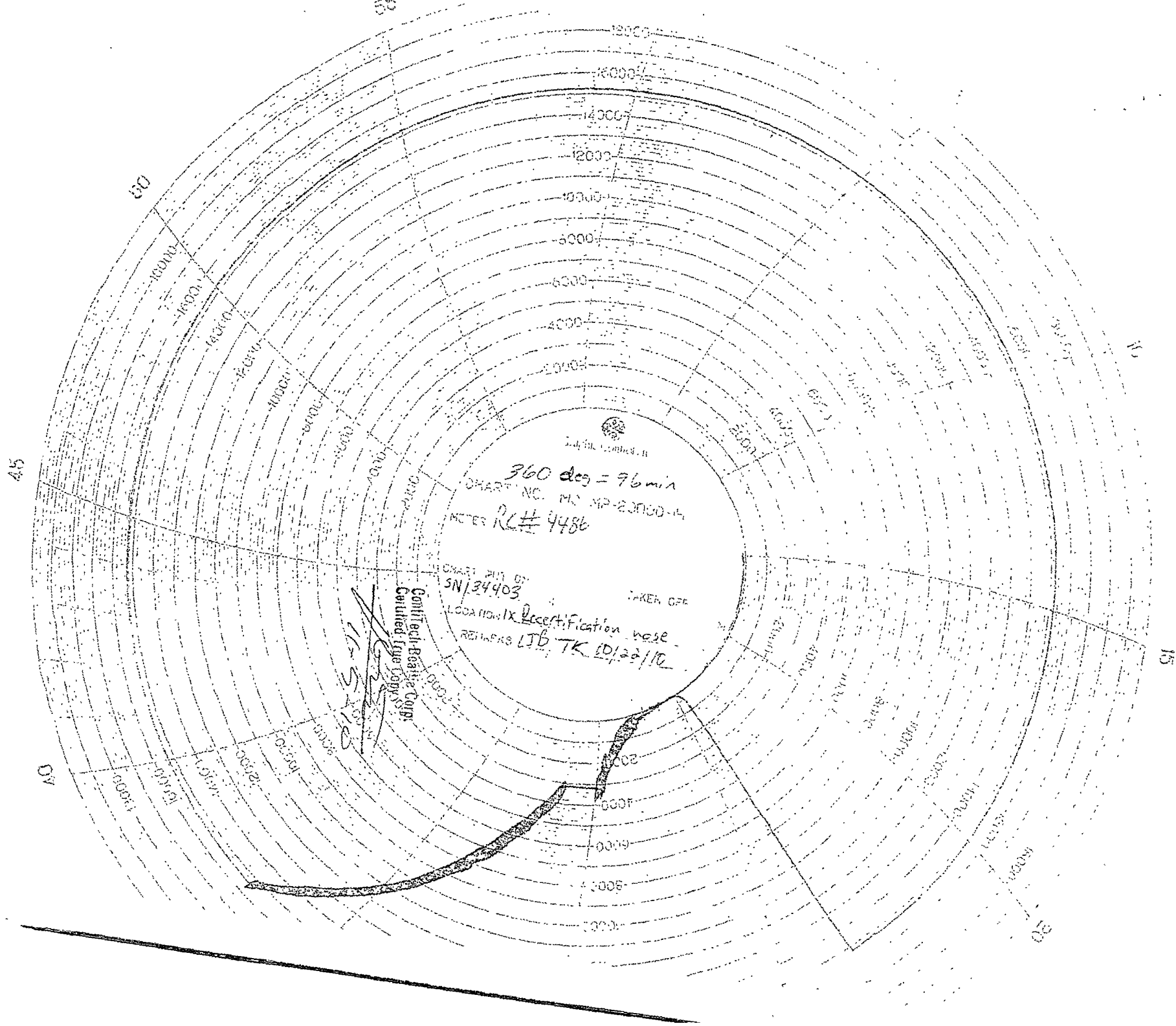
Continental  
CONTITECH

|                                                                                    |                                           |                                                                              |
|------------------------------------------------------------------------------------|-------------------------------------------|------------------------------------------------------------------------------|
| Certificate Number: 4520                                                           | PBC No: 10321                             | Customer Name & Address:                                                     |
| Customer Purchase Order No: RIG 300                                                |                                           | HELMERICH & PAYNE INT'L DRILLING CO<br>1437 SOUTH BOULDER<br>TULSA, OK 74119 |
| Project:                                                                           |                                           |                                                                              |
| Test Centre Address:                                                               | Accepted by ContiTech Beattie Inspection: | Accepted by Client Inspection:                                               |
| ContiTech Beattie Corp.<br>11535 Brittmoore Park Drive<br>Houston, TX 77041<br>USA | Signed: Josh Sims<br>Date: 10/27/10       |                                                                              |

We certify that the goods detailed hereon have been inspected by our Quality Management System, and to the best of our knowledge are found to conform to relevant industrial standards within the requirements of the purchase order as issued to ContiTech Beattie Corporation

These goods were made in the United States of America.

| Item | Part No | Description                                                                                                                                                                                                               | Qty | Serial Number | As-Built Length (m) | Work Press | Test Press | Test Time (minutes) |
|------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---------------|---------------------|------------|------------|---------------------|
| 1    |         | 3" ID 10K Choke & Kill Hose x 35ft OAL<br>End A 4 1/16" 10Kpsi API Spec 6A Type 6BX Flange<br>End B 4 1/16" 10Kpsi API Spec 6A Type 6BX Flange<br>Working Pressure 10,000psi<br>Test Pressure: 15,000psi<br>Serial# 49106 | 1   | 49106         |                     | 10 kpsi    | 15 kpsi    | 60                  |





Fluid Technology

ContiTech Beattie Corp.  
Website: [www.contitechbeattie.com](http://www.contitechbeattie.com)

Monday, June 14, 2010

RE: Drilling & Production Hoses  
Lifting & Safety Equipment

To Helmerich & Payne,

A Continental ContiTech hose assembly can perform as intended and suitable for the application regardless of whether the hose is secured or unsecured in its configuration. As a manufacturer of High Pressure Hose Assemblies for use in Drilling & Production, we do offer the corresponding lifting and safety equipment, this has the added benefit of easing the lifting and handling of each hose assembly whilst affording hose longevity by ensuring correct handling methods and procedures as well as securing the hose in the unlikely event of a failure; but in no way does the lifting and safety equipment affect the performance of the hoses providing the hoses have been handled and installed correctly. It is good practice to use lifting & safety equipment but not mandatory.

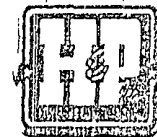
Should you have any questions or require any additional information/clarifications then please do not hesitate to contact us.

ContiTech Beattie is part of the Continental AG Corporation and can offer the full support resources associated with a global organization.

Best regards,

Robin Hodgson  
Sales Manager  
ContiTech Beattie Corp

ContiTech Beattie Corp,  
11535 Brittnmore Park Drive,  
Houston, TX 77041  
Phone: +1 (832) 327-0141  
Fax: +1 (832) 327-0148  
[www.contitechbeattie.com](http://www.contitechbeattie.com)





**Devon Energy Corporation  
20 North Broadway  
Oklahoma City, Oklahoma 73102-8260**

# **Hydrogen Sulfide (H<sub>2</sub>S) Contingency Plan**

**For**

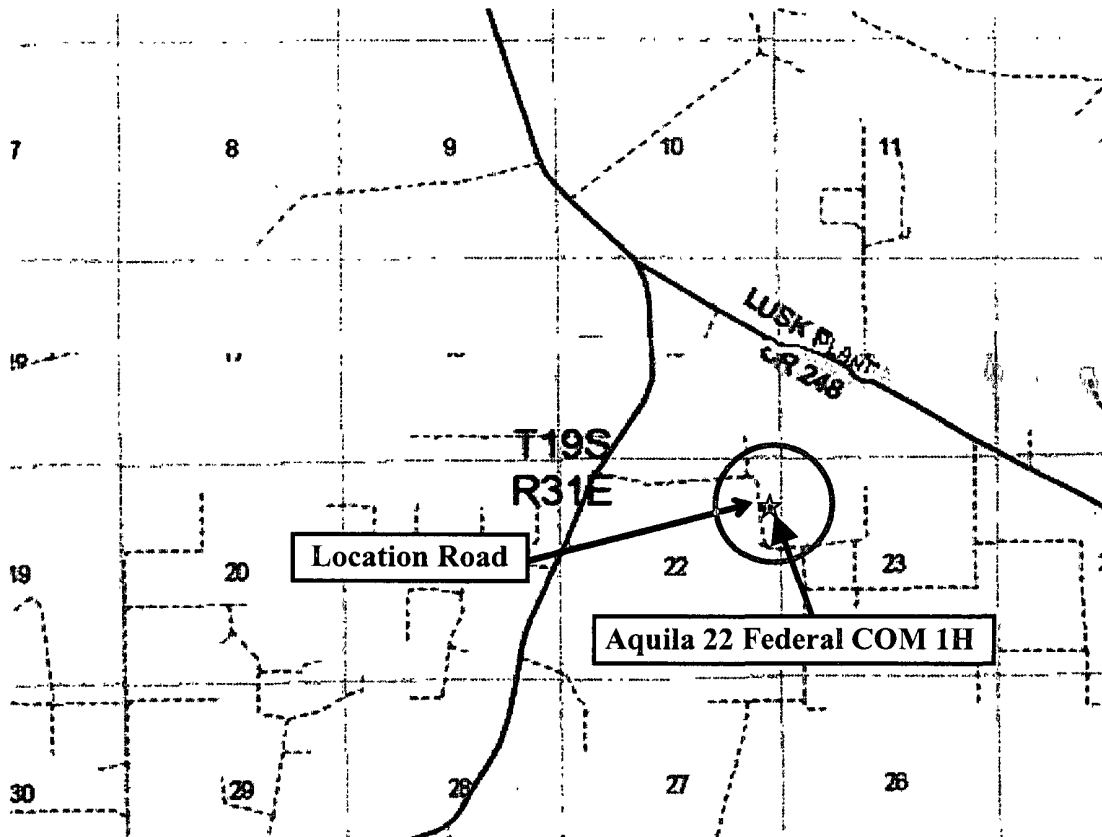
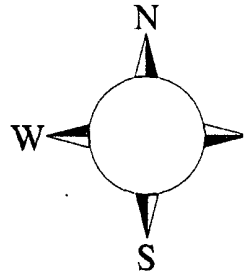
**Aquila 22 Federal COM 1H**

**Sec-22, T-19S R-31E  
990' FNL & 500' FEL,  
LAT. = 32.6504959'N (NAD83)  
LONG = 103.8487128'W**

**Eddy County NM**

## Aquila 22 Federal COM 1H

This is an open drilling site. H<sub>2</sub>S monitoring equipment and emergency response equipment will be used within 500' of zones known to contain H<sub>2</sub>S, including warning signs, wind indicators and H<sub>2</sub>S monitor.



Assumed 100 ppm ROE = 3000' (Radius of Exposure)  
100 ppm H<sub>2</sub>S concentration shall trigger activation of this plan.

### Escape

Crews shall escape upwind of escaping gas in the event of an emergency release of gas. Escape can be facilitated West then North then West on lease road. Crews should then block the road from both directions so as not to allow anyone traversing into a hazardous area. The blockade should be at a safe distance outside of the ROE. Evacuation should continue if necessary West or South outside of the affected area. There are no homes or buildings in or near the ROE.

**Assumed 100 ppm ROE = 3000'**

**100 ppm H<sub>2</sub>S concentration shall trigger activation of this plan.**

## **Emergency Procedures**

In the event of a release of gas containing H<sub>2</sub>S, the first responder(s) must

- Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- Evacuate any public places encompassed by the 100 ppm ROE.
- Be equipped with H<sub>2</sub>S monitors and air packs in order to control the release.
- Use the “buddy system” to ensure no injuries occur during the response
- Take precautions to avoid personal injury during this operation.
- Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- Have received training in the
  - Detection of H<sub>2</sub>S, and
  - Measures for protection against the gas,
  - Equipment used for protection and emergency response.

### **Ignition of Gas Source**

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO<sub>2</sub>). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas

### **Characteristics of H<sub>2</sub>S and SO<sub>2</sub>**

| <b>Common Name</b>      | <b>Chemical Formula</b> | <b>Specific Gravity</b> | <b>Threshold Limit</b> | <b>Hazardous Limit</b> | <b>Lethal Concentration</b> |
|-------------------------|-------------------------|-------------------------|------------------------|------------------------|-----------------------------|
| <b>Hydrogen Sulfide</b> | H <sub>2</sub> S        | 1.189<br>Air = 1        | 10 ppm                 | 100 ppm/hr             | 600 ppm                     |
| <b>Sulfur Dioxide</b>   | SO <sub>2</sub>         | 2.21<br>Air = 1         | 2 ppm                  | N/A                    | 1000 ppm                    |

### **Contacting Authorities**

Devon Energy Corp. personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available. The following call list of essential and potential responders has been prepared for use during a release. Devon Energy Corp. Company response must be in coordination with the State of New Mexico’s ‘Hazardous Materials Emergency Response Plan’ (HMER)

## Devon Energy Corp. Company Call List

| <u>Artesia (575)</u>          | <u>Cellular</u>     | <u>Office</u>  | <u>Home</u> |
|-------------------------------|---------------------|----------------|-------------|
| Foreman – Roger Hernandez ..  | 748-0169 .....      | 748-5238.....  | 746-2991    |
| Asst. Foreman –Tommy Polly.   | 748-5290.....       | 748-0165.....  | 748-2846    |
| Don Mayberry.....             | 748-5235 .....      | 748-0164.....  | 746-4945    |
| Brian Schultz .....           | (505) 325-5623..... | 746-9072.....  | 746-4945    |
| Engineer – Steven Jones ..... | (405) 596-8041....  | (405) 552-7994 |             |

## Agency Call List

| <u>Lea</u>    | <u>Hobbs</u>                                    |
|---------------|-------------------------------------------------|
| <u>County</u> | State Police .....                              |
| <u>(575)</u>  | City Police .....                               |
|               | Sheriff's Office.....                           |
|               | Ambulance.....                                  |
|               | Fire Department.....                            |
|               | LEPC (Local Emergency Planning Committee) ..... |
|               | NMOCD .....                                     |
|               | US Bureau of Land Management .....              |

| <u>Eddy</u>   | <u>Carlsbad</u>                                         |
|---------------|---------------------------------------------------------|
| <u>County</u> | State Police .....                                      |
| <u>(575)</u>  | City Police .....                                       |
|               | Sheriff's Office.....                                   |
|               | Ambulance.....                                          |
|               | Fire Department.....                                    |
|               | LEPC (Local Emergency Planning Committee).....          |
|               | US Bureau of Land Management .....                      |
|               | New Mexico Emergency Response Commission (Santa Fe) ... |
|               | 24 HR .....                                             |
|               | National Emergency Response Center (Washington, DC) ..  |

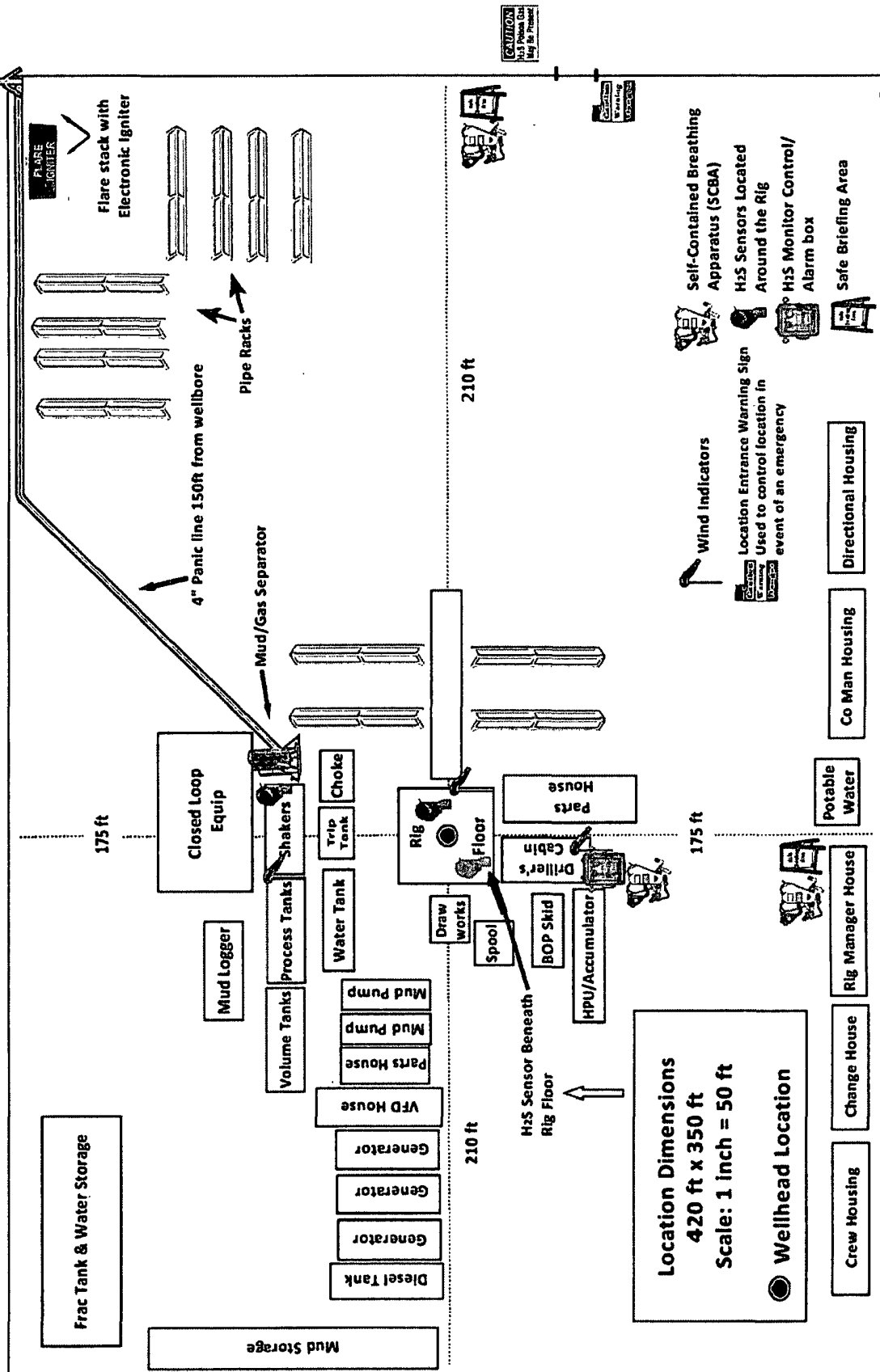
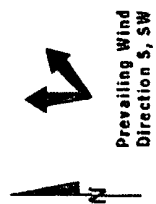
### **Emergency Services**

|                  |                                             |                                  |
|------------------|---------------------------------------------|----------------------------------|
|                  | Boots & Coots IWC .....                     | 1-800-256-9688 or (281) 931-8884 |
|                  | Cudd Pressure Control.....                  | (915) 699-0139 or (915) 563-3356 |
|                  | Halliburton .....                           | (575) 746-2757                   |
|                  | B. J. Services.....                         | (575) 746-3569                   |
| <i>Give</i>      | Flight For Life - Lubbock, TX .....         | (806) 743-9911                   |
| <i>GPS</i>       | Aerocare - Lubbock, TX .....                | (806) 747-8923                   |
| <i>position:</i> | Med Flight Air Amb - Albuquerque, NM .....  | (575) 842-4433                   |
|                  | Lifeguard Air Med Svc. Albuquerque, NM .... | (575) 272-3115                   |

Prepared in conjunction with  
Wade Rohloff



# Devon Energy - Well Pad Rig Location Layout Safety Equipment Location





## Proposed Interim Site Reclamation

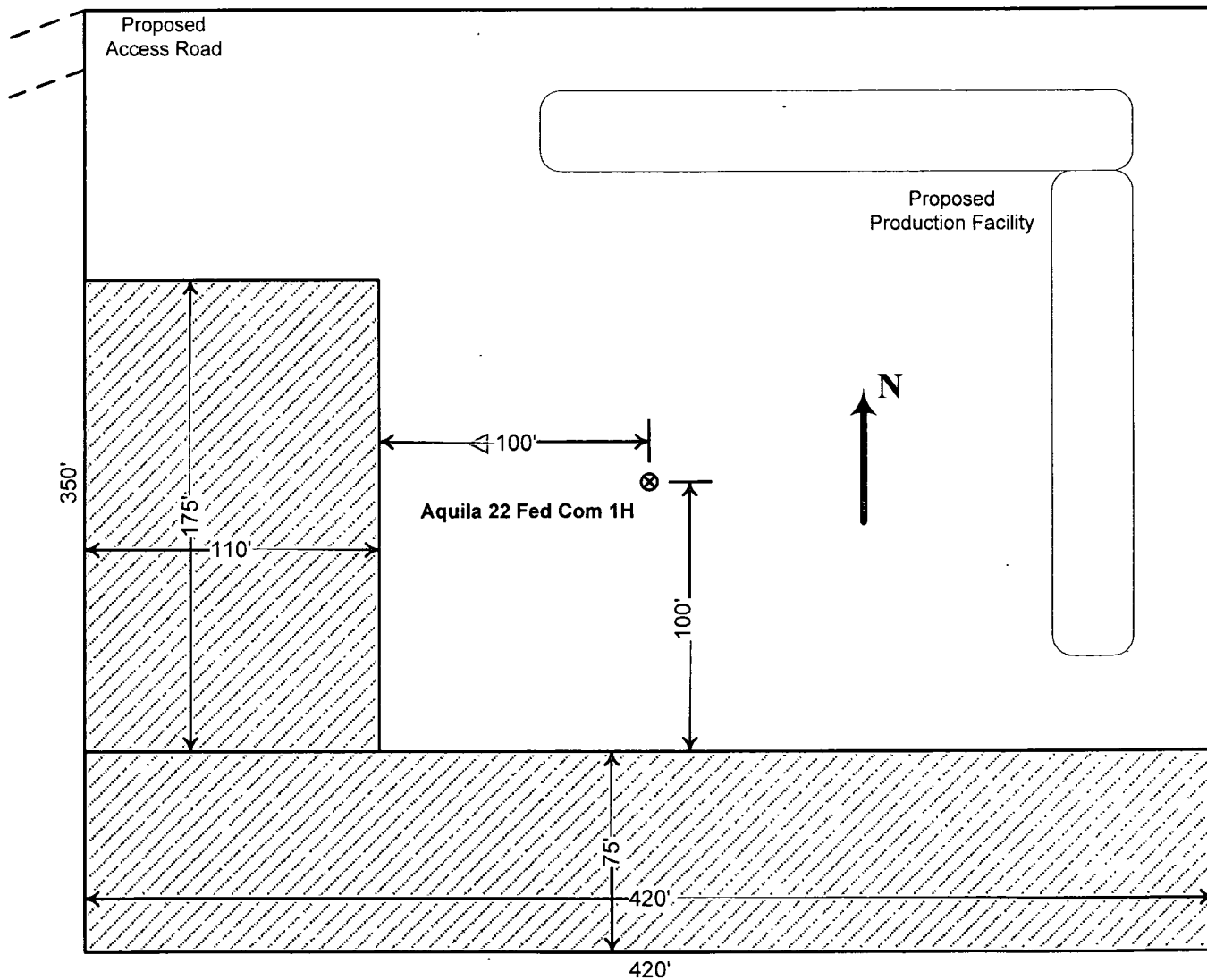
Devon Energy Production Co.  
Aquila 22 Fed Com 1H  
990' FNL & 50' FEL  
Sec. 22-T19S-R31E  
Eddy County, NM



Proposed  
Reclamation  
Area



Scale: 1in = 60ft.



# PECOS DISTRICT CONDITIONS OF APPROVAL

|                       |                                    |
|-----------------------|------------------------------------|
| OPERATOR'S NAME:      | Devon Energy Prod Co               |
| LEASE NO.:            | NM44594                            |
| WELL NAME & NO.:      | 1H Aquila 22 Fed Com               |
| SURFACE HOLE FOOTAGE: | 990' FNL & 50' FEL                 |
| BOTTOM HOLE FOOTAGE:  | 400' FNL & 340' FWL                |
| LOCATION:             | Section 22, T.19 S., R.31 E., NMPM |
| COUNTY:               | Eddy County, New Mexico            |

## TABLE OF CONTENTS

Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

- ☐ **General Provisions**
- ☐ **Permit Expiration**
- ☐ **Archaeology, Paleontology, and Historical Sites**
- ☐ **Noxious Weeds**
- ☒ **Special Requirements**

- Lesser Prairie-Chicken Timing Stipulations
- Ground-level Abandoned Well Marker
- Recreation
- Construction
- Communitization Agreement

- ☒ **Construction**

- Notification
- Topsoil
- Closed Loop System
- Federal Mineral Material Pits
- Well Pads
- Roads

- ☐ **Road Section Diagram**

- ☒ **Drilling**

- H<sub>2</sub>S – Onshore Order #6
- Logging Requirements
- Waste Material and Fluids

- ☐ **Production (Post Drilling)**

- Well Structures & Facilities
- Pipelines
- Electric Lines

- ☐ **Interim Reclamation**

- ☒ **Final Abandonment & Reclamation**