

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
**APPLICATION FOR PERMIT TO DRILL OR REENTER**

Operator Copy

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

|                                                                                                                                                                                                                        |                                                   |                                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------------------|
| 1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER                                                                                                                           |                                                   | 5. Lease Serial No.<br>NM-89057                                   |
| 1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone |                                                   | 6. If Indian, Allottee or Tribe Name                              |
| 2. Name of Operator<br>Devon Energy Production Company, LP                                                                                                                                                             |                                                   | 7. If Unit or CA Agreement, Name and No.                          |
| 3a. Address 333 W. Sheridan<br>Oklahoma City, Oklahoma City 73102-8260                                                                                                                                                 | 3b. Phone No. (include area code)<br>405-228-8699 | 8. Lease Name and Well No.<br>Snapping 10 Federal 5H              |
| 4. Location of Well (Report location clearly and in accordance with any State requirements*)<br>At surface 175 FSL & 160 FEL P<br>At proposed prod. zone 330 FNL & 400 FEL A                                           |                                                   | 9. API Well No.<br>30-015-40994                                   |
| 14. Distance in miles and direction from nearest town or post office*<br>Approximately 25 miles southeast of Loving, NM.                                                                                               |                                                   | 10. Field and Pool, or Exploratory<br>West Jennings; Bone Spring  |
| 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 330'                                                                                             |                                                   | 11. Sec., T. R. M. or Blk. and Survey or Area<br>SEC 10 T26S R31E |
| 16. No. of acres in lease<br>2160 Acres                                                                                                                                                                                |                                                   | 12. County or Parish<br>Eddy County                               |
| 17. Spacing Unit dedicated to this well<br>160 Acres                                                                                                                                                                   |                                                   | 13. State<br>NM                                                   |
| 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. See Attached Map                                                                                            |                                                   | 19. Proposed Depth<br>8970' TVD 13,559' MD                        |
| 20. BLM/BIA Bond No. on file<br>CO-1104; NMB-000801                                                                                                                                                                    |                                                   | 21. Elevations (Show whether DF, KDB, RT, GL, etc.)<br>3204' GL   |
| 22. Approximate date work will start*                                                                                                                                                                                  |                                                   | 23. Estimated duration<br>45 days                                 |
| 24. Attachments Pad drilled w/ Snapping 10 Federal 6H                                                                                                                                                                  |                                                   |                                                                   |

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

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands; the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the authorized officer.

|                                         |                                         |                    |
|-----------------------------------------|-----------------------------------------|--------------------|
| 25. Signature<br><i>Judy A. Barnett</i> | Name (Printed/Typed)<br>Judy A. Barnett | Date<br>08/05/2012 |
| Title<br>Regulatory Specialist          |                                         |                    |

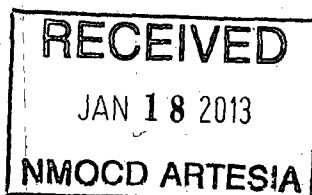
|                                                     |                                           |                |
|-----------------------------------------------------|-------------------------------------------|----------------|
| Approved by (Signature)<br><i>James A. Amos Jr.</i> | Name (Printed/Typed)<br>James A. Amos Jr. | Date<br>1-9-13 |
| Title<br>FIELD MANAGER                              |                                           |                |
| Office<br>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)



Carlsbad Controlled Water Basin

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

Approval Subject to General Requirements  
& Special Stipulations Attached

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

|                                                |                                                                            |                                                             |
|------------------------------------------------|----------------------------------------------------------------------------|-------------------------------------------------------------|
| <sup>1</sup> API Number<br><b>30-015-90994</b> | <sup>2</sup> Pool Code<br><b>97860</b>                                     | <sup>3</sup> Pool Name<br><b>WEST JENNINGS; BONE SPRING</b> |
| <sup>4</sup> Property Code<br><b>38187</b>     | <sup>5</sup> Property Name<br><b>SNAPPING "10" FEDERAL</b>                 | <sup>6</sup> Well Number<br><b>5H</b>                       |
| <sup>7</sup> OGRID No.<br><b>6137</b>          | <sup>8</sup> Operator Name<br><b>DEVON ENERGY PRODUCTION COMPANY, L.P.</b> | <sup>9</sup> Elevation<br><b>3204.5</b>                     |

<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      |
|---------------|-----------|-------------|-------------|---------|---------------|------------------|---------------|----------------|-------------|
| <b>P</b>      | <b>10</b> | <b>26 S</b> | <b>31 E</b> |         | <b>175</b>    | <b>SOUTH</b>     | <b>160</b>    | <b>EAST</b>    | <b>EDDY</b> |

<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      |
|---------------|-----------|-------------|-------------|---------|---------------|------------------|---------------|----------------|-------------|
| <b>A</b>      | <b>10</b> | <b>26 S</b> | <b>31 E</b> |         | <b>330</b>    | <b>NORTH</b>     | <b>400</b>    | <b>EAST</b>    | <b>EDDY</b> |

|                                             |                               |                                  |                                         |
|---------------------------------------------|-------------------------------|----------------------------------|-----------------------------------------|
| <sup>12</sup> Dedicated Acres<br><b>160</b> | <sup>13</sup> Joint or Infill | <sup>14</sup> Consolidation Code | <sup>15</sup> Order No.<br><b>13559</b> |
|---------------------------------------------|-------------------------------|----------------------------------|-----------------------------------------|

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.

|                                                                                                                       |                                                                                                                                                          |                                                                                                                       |                                |
|-----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------|
| NW CORNER SEC. 10<br>LAT. = 32.0647759°N<br>LONG. = 103.7746296°W<br>NMSP EAST (FT)<br>N = 387751.03<br>E = 714408.32 | NOTE: THE NORTH SECTION LINE WAS CALCULATED USING GLO PLAT AND FIELD EVIDENCE                                                                            | BOTTOM OF HOLE<br>LAT. = 32.0639016°N<br>LONG. = 103.7587307°W<br>NMSP EAST (FT)<br>N = 387458.85<br>E = 719335.13    | BOTTOM OF HOLE<br>400'<br>330' |
|                                                                                                                       |                                                                                                                                                          | NE CORNER SEC. 10<br>LAT. = 32.0648111°N<br>LONG. = 103.7574377°W<br>NMSP EAST (FT)<br>N = 387791.85<br>E = 719733.91 |                                |
|                                                                                                                       |                                                                                                                                                          | SE CORNER SEC. 10<br>LAT. = 32.0501483°N<br>LONG. = 103.7574177°W<br>NMSP EAST (FT)<br>N = 382457.83<br>E = 719768.56 |                                |
| SW CORNER SEC. 10<br>LAT. = 32.0501214°N<br>LONG. = 103.7746546°W<br>NMSP EAST (FT)<br>N = 382420.01<br>E = 714428.17 | SNAPPING "10" FEDERAL #5H<br>ELEV. = 3204.5'<br>LAT. = 32.0506285°N (NAD83)<br>LONG. = 103.7579365°W<br>NMSP EAST (FT)<br>N = 382631.68<br>E = 719606.88 | SURFACE LOCATION<br>175'<br>160'                                                                                      |                                |

<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 released 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: *Judy A. Barnett* Date: \_\_\_\_\_  
Printed Name: Judy A. Barnett Regulatory Specialist 8/5/12

<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: *William F. Jaramillo*  
Certificate Number: 12797  
Date of Survey: 12/27/2011  
SURVEY NO. 699A

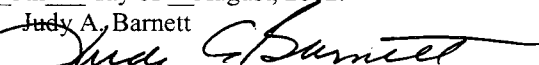
## Certification

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 5th day of August, 2012.

Printed Name: Judy A. Barnett

Signed Name: 

Position Title: Regulatory Specialist

Address: 333 W. Sheridan, OKC OK 73102

Telephone: (405)-228-8699

Field Representative (if not above signatory):

Address (if different from above):

Telephone (if different from above):

**devon**

Devon Energy

PB\_AS

1-Mile Radius Map

Snapping "10" Fed 5H

0 1.891

FEET

POSTED WELL DATA



Well Label

WELL SYMBOLS

○ Location Only

● Oil Well

☼ Gas Well

○ Dry Hole

○ Dry Hole, With Show of Oil

PLU PHANTOM BANKS 4 1H

DELBASIN-FED 1

SNAPPING "10" FEDERAL 5H  
DEVON ENERGY

Estimated distance from BHL to  
nearest wellbore 589 ft W

SNAPPING 3 FED 1H  
SNAPPING 3 FED 2H

SNAPPING 10 FED 1H

SNAPPING 2 ST 3H

SNAPPING 2 ST 2H

ALMOST TEXAS UT 1

SNAPPING 2 ST 1H-Y

SNAPPING 2 ST 6H

SNAPPING 2 ST 7H

SNAPPING 2 ST 8H

SNAPPING 2 ST 5H

SNAPPING 2 ST 4H

BHL

ROSS RANCH 10 FED 1

SNAPPING 10 FED 6H

SNAPPING 10 FED 5H

SNAPPING 10 FED 2H

SNAPPING 10 FED 3H

SNAPPING 10 FED 4H

SNAPPING 11 FED 1H

Estimated distance from SL to  
nearest wellbore 50 ft W

OPERA AGG FED 1

FED 15.1

Estimated distances to nearest wells:

|                       |            |
|-----------------------|------------|
| Snapping "10" Fed 6H  | 50 ft W    |
| Ross Ranch "11" Fed 1 | 353 ft W   |
| Snapping "2" State 3H | 1223 ft NE |
| Snapping "10" Fed 6H  | 589 ft W   |

PHAN 16 ST 1



## DRILLING PROGRAM

Devon Energy Production Company, LP  
Snapping 10 Federal #5H

Surface Location: 175' FSL & 160' FEL, Unit P, Sec 10, T26S R31E, Eddy, NM  
Bottom Hole Location: 330' FNL & 400' FEL, Unit A, Sec 10, T26S R31E, Eddy, NM

### 1. Geologic Name of Surface Formation

a. Quaternary Alluvium

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

|                  |       |           |
|------------------|-------|-----------|
| a. Fresh Water   | 25'   |           |
| b. Rustler       | 1311' |           |
| c. Salado        | 1785' |           |
| d. Base of Salt  | 3908' |           |
| e. Delaware      | 4112' | Oil       |
| f. Bell Canyon   | 4144' | Oil       |
| g. Cherry Canyon | 5096' | Oil       |
| h. Brushy Canyon | 6440' | Oil       |
| i. Bone Spring   | 8132' | Oil & Gas |

Total Depth 13,559'

### 3. Casing Program: All casing is new and API approved.

| <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> |
|------------------|----------------------|---------------|------------------------|---------------|---------------|--------------|
| 17 1/2"          | 0' - 1350'           | 13 3/8"       | 0' - 1350'             | 48#           | ST&C          | H-40         |
| 12 1/4"          | 1350' - 4150'        | 9 5/8"        | 0 - 4150'              | 40#           | LT&C          | J-55         |
| 8 3/4"           | 4150' - 8200'        | 5 1/2"        | 0' - 8200'             | 17#           | LT&C          | HCP110       |
| 8 3/4"           | 8200' - 13559'       | 5 1/2"        | 8200' - 13559'         | 17#           | BT&C          | HCP110       |

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NOV 11 1985

Checked by: [Signature]  
M. L. [Signature]

MAXIMUM TVD 8970'

**Design Parameter Factors:**

| <u>Casing Size</u> | <u>Collapse Design Factor</u> | <u>Burst Design Factor</u> | <u>Tension Design Factor</u> |
|--------------------|-------------------------------|----------------------------|------------------------------|
| 13 3/8"            | 1.22                          | 2.74                       | 4.97                         |
| 9 5/8"             | 1.19                          | 1.83                       | 3.13                         |
| 5 1/2"             | 1.94                          | 2.77                       | 1.92                         |
| 5 1/2"             | 1.88                          | 2.68                       | 6.55                         |

**4. Cement Program: (volumes based on at least 25% excess):**

- a. 13 3/8" Surface **Lead** w/840 sx ExtendaCem CZ + 0.125#/sx Poly-E FW 13.50. **Yield** 1.75 cf/sx. **Tail** w/340 sx HalCem C + 2% Calcium Chloride + 0.125#/sx Poly-EF. FW 14.80 ppg. **Yield** 1.35 cf/sx. **TOC @** surface.
- b. 9 5/8" Intermediate **Lead** w/905 sx EconoCem HCL + 5% Salt + 0.125#/sx Poly-EF. FW. 12.90 ppg. **Yield** 1.85 cf/sx. **Tail** w/450 sx HalCem C + 0.125 #/sx Poly EF. FW 14.80. **Yield** 1.33 cf/sx. **TOC @** surface.
- c. 5 1/2" Production **Lead** w/335 sx EconoCem H + 0.3% Econolite + 0.125 #/sx Poly-EF + 14.55 g/sx 0.3% HR-601. FW 12.50 ppg. **Yield** 1.95 cf/sx. **Tail** w/1320 sx VersaCem-H + 0.5% HaladR-344 + 0.3% CFR-3 + 1 #/sx Salt + 0.2% HR-601. FW, 14.40 ppg. **Yield** 1.24 cf/sx. **TOC @** 3650'.

Actual cement volumes will be adjusted based on fluid caliper and caliper log data.

## 5. Pressure Control Equipment

The BOP system used to drill the 12-1/4" and 8-3/4" holes will consist of a 13-5/8" 3M Double 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 the casing shoe.

The pipe rams will be operated and checked as per Onshore Order No 2. 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 - 1350'        | 8.4-9.0        | 30-34       | NC                | FW                 |
| 1350' - 4,150'   | 9.8-10.0       | 28-32       | NC                | Brine              |
| 4,150' - 13,559' | 8.6-9.0        | 28-32       | NC-12             | FW                 |

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 Kelly cock will be in the drill string at all times.
- A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times.
- Hydrogen Sulfide detection equipment will be in operation after drilling out the 13 3/8" casing shoe until the 5 1/2" casing is cemented. Breathing equipment will be on location upon drilling the 13 3/8" shoe until total depth is reached.

## 8. Logging, Coring, and Testing Program: *see COTA*

- Drill stem tests will be based on geological sample shows.
- 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.
- The open hole electrical logging program will be:
  - Total Depth to Intermediate Casing and Gamma Ray. Compensated Neutron - Z Density log with Gamma Ray and Caliper. Dual Laterolog-Micro Laterolog with SP
  - Total Depth to Surface. Compensated Neutron with Gamma Ray
  - No coring program is planned
  - 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. No 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 125°. 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.

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SEP 11 1996

WILLIAM J. BROWN  
DISTRICT MANAGER



# Devon Energy

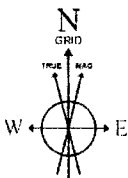
Location: Eddy County, NM  
Field: (Snapping) Sec. 10, T26S, R31E  
Facility: Snapping 10 Federal No.5H

Slot: No.5H SHL  
Well: No.5H  
Wellbore: No.5H PWB

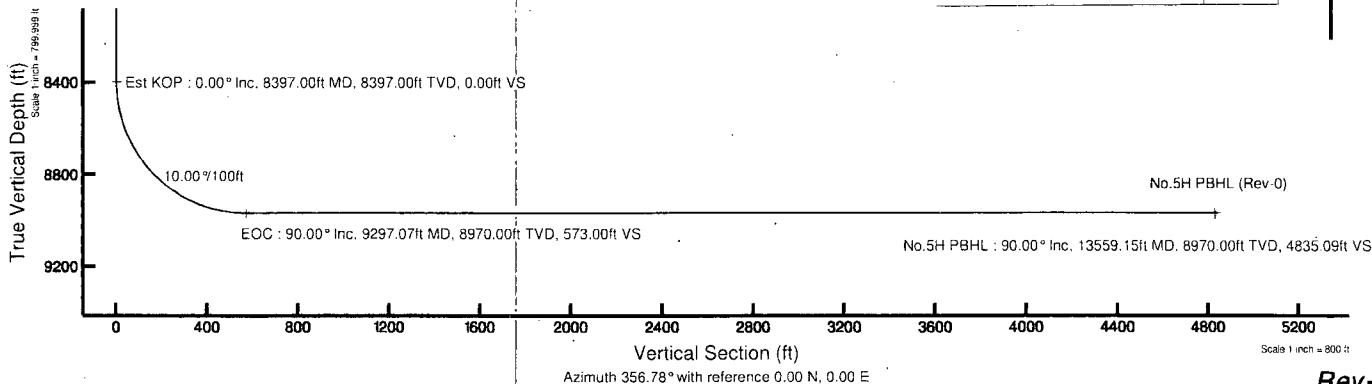
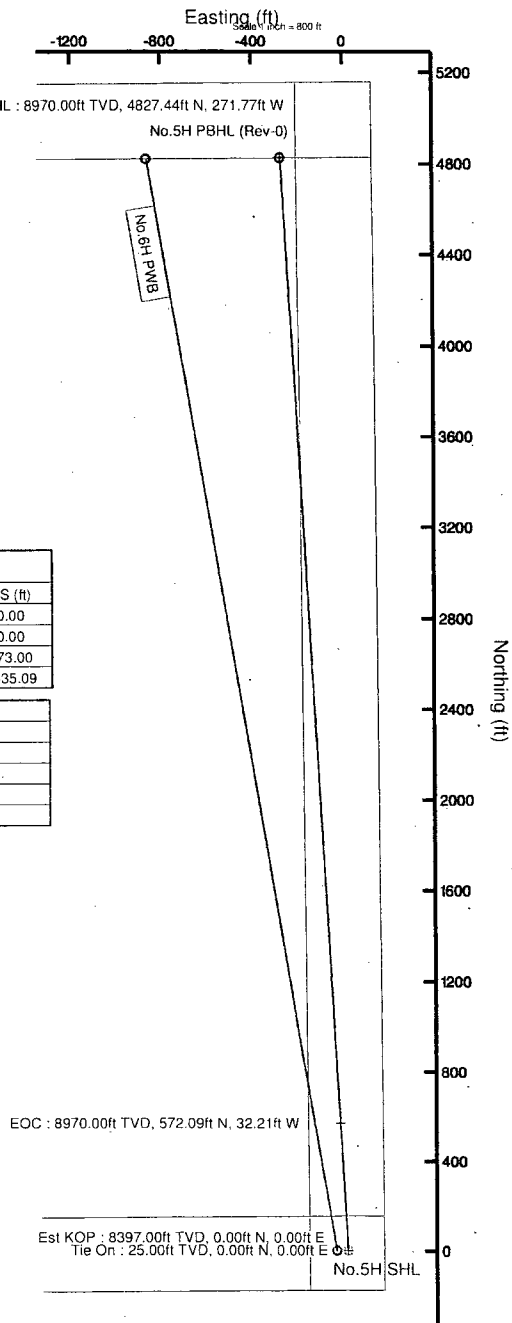


| Well Profile Data |          |         |         |          |              |              |               |         |
|-------------------|----------|---------|---------|----------|--------------|--------------|---------------|---------|
| Design Comment    | MD (ft)  | Inc (°) | Az (°)  | TVD (ft) | Local N (ft) | Local E (ft) | DLS (°/100ft) | VS (ft) |
| Tie On            | 25.00    | 0.000   | 356.778 | 25.00    | 0.00         | 0.00         | 0.00          | 0.00    |
| Est KOP           | 8397.00  | 0.000   | 356.778 | 8397.00  | 0.00         | 0.00         | 0.00          | 0.00    |
| EOC               | 9297.07  | 90.000  | 356.778 | 8970.00  | 572.09       | -32.21       | 10.00         | 573.00  |
| No.5H PBHL        | 13559.15 | 90.000  | 356.778 | 8970.00  | 4827.44      | -271.77      | 0.00          | 4835.09 |

|                                                               |                                                                     |
|---------------------------------------------------------------|---------------------------------------------------------------------|
| Plot reference wellpath is Rev-A.0                            |                                                                     |
| True vertical depths are referenced to Rig on No.5H SHL (KB)  | Grid System: NAD83 / TM New Mexico SP, Eastern Zone (3001), US feet |
| Measured depths are referenced to Rig on No.5H SHL (KB)       | North Reference: Grid north                                         |
| Rig on No.5H SHL (KB) to Mean Sea Level: 3229.5 feet          | Scale: True distance                                                |
| Mean Sea Level to Mud line (At Slot: No.5H SHL): -3204.5 feet | Depths are in feet                                                  |
| Coordinates are in feet referenced to Slot                    | Created by: gentbry on 5/29/2012                                    |



BGGM (1945.0 to 2013.0) Dip: 59.93° Field: 48395 nT  
Magnetic North is 7.62 degrees East of True North (at 5/29/2012)  
Grid North is 0.31 degrees East of True North  
To correct azimuth from True to Grid subtract 0.31 degrees  
To correct azimuth from Magnetic to Grid add 7.32 degrees  
For example: if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 7.32 = 97.32



Rev-A.0



# Planned Wellpath Report

Rev-A.0  
Page 1 of 5



## REFERENCE WELL PATH IDENTIFICATION

|          |                                |          |           |
|----------|--------------------------------|----------|-----------|
| Operator | Devon Energy                   | Slot     | No.5H SHL |
| Area     | Eddy County, NM                | Well     | No.5H     |
| Field    | (Snapping) Sec. 10, T26S, R31E | Wellbore | No.5H PWB |
| Facility | Snapping 10 Federal No.5H      |          |           |

## REPORT SETUP INFORMATION

|                     |                                                        |                      |                          |
|---------------------|--------------------------------------------------------|----------------------|--------------------------|
| Projection System   | NAD83 / TM New Mexico SP, Eastern Zone (3001), US feet | Software System      | WellArchitect® 3.0.0     |
| North Reference     | Grid                                                   | User                 | Gentbry                  |
| Scale               | 0.999945                                               | Report Generated     | 5/29/2012 at 4:37:54 PM  |
| Convergence at slot | 0.31° East                                             | Database/Source file | WA Midland/No.5H_PWB.xml |

## WELL PATH LOCATION

|                       | Local coordinates |          | Grid coordinates |                 | Geographic coordinates |                 |
|-----------------------|-------------------|----------|------------------|-----------------|------------------------|-----------------|
|                       | North[ft]         | East[ft] | Easting[US ft]   | Northing[US ft] | Latitude               | Longitude       |
| Slot Location         | 0.00              | 0.00     | 719606.88        | 382631.68       | 32°03'02.263"N         | 103°45'28.572"W |
| Facility Reference Pt |                   |          | 719606.88        | 382631.68       | 32°03'02.263"N         | 103°45'28.572"W |
| Field Reference Pt    |                   |          | 719606.88        | 382631.68       | 32°03'02.263"N         | 103°45'28.572"W |

## WELL PATH DATUM

|                          |                       |                                                       |                   |
|--------------------------|-----------------------|-------------------------------------------------------|-------------------|
| Calculation method       | Minimum curvature     | Rig on No.5H SHL (KB) to Facility Vertical Datum      | 25.00ft           |
| Horizontal Reference Pt  | Slot                  | Rig on No.5H SHL (KB) to Mean Sea Level               | 3229.50ft         |
| Vertical Reference Pt    | Rig on No.5H SHL (KB) | Rig on No.5H SHL (KB) to Mud Line at Slot (No.5H SHL) | 25.00ft           |
| MD Reference Pt          | Rig on No.5H SHL (KB) | Section Origin                                        | N 0.00, E 0.00 ft |
| Field Vertical Reference | Mean Sea Level        | Section Azimuth                                       | 356.78°           |



# Planned Wellpath Report

Rev-A.0  
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| REFERENCE WELLPATH IDENTIFICATION |                                |          |           |  |
|-----------------------------------|--------------------------------|----------|-----------|--|
| Operator                          | Devon Energy                   | Slot     | No.5H SHL |  |
| Area                              | Eddy County, NM                | Well     | No.5H     |  |
| Field                             | (Snapping) Sec. 10, T26S, R31E | Wellbore | No.5H PWB |  |
| Facility                          | Snapping 10 Federal No.5H      |          |           |  |

## WELLPATH DATA (140 stations) † = interpolated/extrapolated station

| MD [ft]  | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude       | Longitude       | DLS [°/100ft] | Comments |
|----------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|----------------|-----------------|---------------|----------|
| 0.00†    | 0.000           | 356.778     | 0.00     | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 25.00    | 0.000           | 356.778     | 25.00    | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          | Tie On   |
| 125.00†  | 0.000           | 356.778     | 125.00   | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 225.00†  | 0.000           | 356.778     | 225.00   | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 325.00†  | 0.000           | 356.778     | 325.00   | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 425.00†  | 0.000           | 356.778     | 425.00   | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 525.00†  | 0.000           | 356.778     | 525.00   | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 625.00†  | 0.000           | 356.778     | 625.00   | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 725.00†  | 0.000           | 356.778     | 725.00   | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 825.00†  | 0.000           | 356.778     | 825.00   | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 925.00†  | 0.000           | 356.778     | 925.00   | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 1025.00† | 0.000           | 356.778     | 1025.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 1125.00† | 0.000           | 356.778     | 1125.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 1225.00† | 0.000           | 356.778     | 1225.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 1325.00† | 0.000           | 356.778     | 1325.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 1425.00† | 0.000           | 356.778     | 1425.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 1525.00† | 0.000           | 356.778     | 1525.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 1625.00† | 0.000           | 356.778     | 1625.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 1725.00† | 0.000           | 356.778     | 1725.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 1825.00† | 0.000           | 356.778     | 1825.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 1925.00† | 0.000           | 356.778     | 1925.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 2025.00† | 0.000           | 356.778     | 2025.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 2125.00† | 0.000           | 356.778     | 2125.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 2225.00† | 0.000           | 356.778     | 2225.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 2325.00† | 0.000           | 356.778     | 2325.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 2425.00† | 0.000           | 356.778     | 2425.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 2525.00† | 0.000           | 356.778     | 2525.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 2625.00† | 0.000           | 356.778     | 2625.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 2725.00† | 0.000           | 356.778     | 2725.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 2825.00† | 0.000           | 356.778     | 2825.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 2925.00† | 0.000           | 356.778     | 2925.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 3025.00† | 0.000           | 356.778     | 3025.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 3125.00† | 0.000           | 356.778     | 3125.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 3225.00† | 0.000           | 356.778     | 3225.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 3325.00† | 0.000           | 356.778     | 3325.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 3425.00† | 0.000           | 356.778     | 3425.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 3525.00† | 0.000           | 356.778     | 3525.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 3625.00† | 0.000           | 356.778     | 3625.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 3725.00† | 0.000           | 356.778     | 3725.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 3825.00† | 0.000           | 356.778     | 3825.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 3925.00† | 0.000           | 356.778     | 3925.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 4025.00† | 0.000           | 356.778     | 4025.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 4125.00† | 0.000           | 356.778     | 4125.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 4225.00† | 0.000           | 356.778     | 4225.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 4325.00† | 0.000           | 356.778     | 4325.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |



# Planned Wellpath Report

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| REFERENCE WELLPATH IDENTIFICATION |                                |          |           |  |
|-----------------------------------|--------------------------------|----------|-----------|--|
| Operator                          | Devon Energy                   | Slot     | No.5H SHL |  |
| Area                              | Eddy County, NM                | Well     | No.5H     |  |
| Field                             | (Snapping) Sec. 10, T26S, R31E | Wellbore | No.5H PWB |  |
| Facility                          | Snapping 10 Federal No.5H      |          |           |  |

| WELLPATH DATA (140 stations) † = interpolated/extrapolated station |                 |             |          |                |            |           |                   |                    |                |                 |               |          |
|--------------------------------------------------------------------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|----------------|-----------------|---------------|----------|
| MD [ft]                                                            | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude       | Longitude       | DLS [°/100ft] | Comments |
| 4425.00†                                                           | 0.000           | 356.778     | 4425.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 4525.00†                                                           | 0.000           | 356.778     | 4525.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 4625.00†                                                           | 0.000           | 356.778     | 4625.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 4725.00†                                                           | 0.000           | 356.778     | 4725.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 4825.00†                                                           | 0.000           | 356.778     | 4825.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 4925.00†                                                           | 0.000           | 356.778     | 4925.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 5025.00†                                                           | 0.000           | 356.778     | 5025.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 5125.00†                                                           | 0.000           | 356.778     | 5125.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 5225.00†                                                           | 0.000           | 356.778     | 5225.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 5325.00†                                                           | 0.000           | 356.778     | 5325.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 5425.00†                                                           | 0.000           | 356.778     | 5425.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 5525.00†                                                           | 0.000           | 356.778     | 5525.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 5625.00†                                                           | 0.000           | 356.778     | 5625.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 5725.00†                                                           | 0.000           | 356.778     | 5725.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 5825.00†                                                           | 0.000           | 356.778     | 5825.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 5925.00†                                                           | 0.000           | 356.778     | 5925.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 6025.00†                                                           | 0.000           | 356.778     | 6025.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 6125.00†                                                           | 0.000           | 356.778     | 6125.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 6225.00†                                                           | 0.000           | 356.778     | 6225.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 6325.00†                                                           | 0.000           | 356.778     | 6325.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 6425.00†                                                           | 0.000           | 356.778     | 6425.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 6525.00†                                                           | 0.000           | 356.778     | 6525.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 6625.00†                                                           | 0.000           | 356.778     | 6625.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 6725.00†                                                           | 0.000           | 356.778     | 6725.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 6825.00†                                                           | 0.000           | 356.778     | 6825.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 6925.00†                                                           | 0.000           | 356.778     | 6925.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 7025.00†                                                           | 0.000           | 356.778     | 7025.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 7125.00†                                                           | 0.000           | 356.778     | 7125.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 7225.00†                                                           | 0.000           | 356.778     | 7225.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 7325.00†                                                           | 0.000           | 356.778     | 7325.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 7425.00†                                                           | 0.000           | 356.778     | 7425.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 7525.00†                                                           | 0.000           | 356.778     | 7525.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 7625.00†                                                           | 0.000           | 356.778     | 7625.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 7725.00†                                                           | 0.000           | 356.778     | 7725.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 7825.00†                                                           | 0.000           | 356.778     | 7825.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 7925.00†                                                           | 0.000           | 356.778     | 7925.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 8025.00†                                                           | 0.000           | 356.778     | 8025.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 8125.00†                                                           | 0.000           | 356.778     | 8125.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 8225.00†                                                           | 0.000           | 356.778     | 8225.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 8325.00†                                                           | 0.000           | 356.778     | 8325.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          |          |
| 8397.00                                                            | 0.000           | 356.778     | 8397.00  | 0.00           | 0.00       | 0.00      | 719606.88         | 382631.68          | 32°03'02.263"N | 103°45'28.572"W | 0.00          | Est KOP  |
| 8425.00†                                                           | 2.800           | 356.778     | 8424.99  | 0.68           | 0.68       | -0.04     | 719606.84         | 382632.36          | 32°03'02.269"N | 103°45'28.572"W | 10.00         |          |
| 8525.00†                                                           | 12.799          | 356.778     | 8523.94  | 14.24          | 14.21      | -0.80     | 719606.08         | 382645.89          | 32°03'02.403"N | 103°45'28.580"W | 10.00         |          |
| 8625.00†                                                           | 22.798          | 356.778     | 8619.03  | 44.77          | 44.70      | -2.52     | 719604.36         | 382676.37          | 32°03'02.705"N | 103°45'28.598"W | 10.00         |          |
| 8725.00†                                                           | 32.798          | 356.778     | 8707.38  | 91.34          | 91.20      | -5.13     | 719601.75         | 382722.87          | 32°03'03.165"N | 103°45'28.626"W | 10.00         |          |



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| REFERENCE WELLPATH IDENTIFICATION |                                |          |           |  |
|-----------------------------------|--------------------------------|----------|-----------|--|
| Operator                          | Devon Energy                   | Slot     | No.5H SHL |  |
| Area                              | Eddy County, NM                | Well     | No.5H     |  |
| Field                             | (Snapping) Sec. 10, T26S, R31E | Wellbore | No.5H PWB |  |
| Facility                          | Snapping 10 Federal No.5H      |          |           |  |

## WELLPATH DATA (140 stations) † = interpolated/extrapolated station

| MD [ft]   | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude       | Longitude       | DLS [°/100ft] | Comments |
|-----------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|----------------|-----------------|---------------|----------|
| 8825.00†  | 42.797          | 356.778     | 8786.30  | 152.55         | 152.31     | -8.57     | 719598.31         | 382783.98          | 32°03'03.770"N | 103°45'28.662"W | 10.00         |          |
| 8925.00†  | 52.796          | 356.778     | 8853.39  | 226.53         | 226.18     | -12.73    | 719594.15         | 382857.84          | 32°03'04.501"N | 103°45'28.705"W | 10.00         |          |
| 9025.00†  | 62.795          | 356.778     | 8906.61  | 311.04         | 310.55     | -17.48    | 719589.40         | 382942.21          | 32°03'05.337"N | 103°45'28.755"W | 10.00         |          |
| 9125.00†  | 72.795          | 356.778     | 8944.36  | 403.51         | 402.87     | -22.68    | 719584.20         | 383034.53          | 32°03'06.250"N | 103°45'28.810"W | 10.00         |          |
| 9225.00†  | 82.794          | 356.778     | 8965.47  | 501.12         | 500.33     | -28.17    | 719578.71         | 383131.98          | 32°03'07.215"N | 103°45'28.868"W | 10.00         |          |
| 9297.07   | 90.000          | 356.778     | 8970.00  | 573.00         | 572.09     | -32.21    | 719574.68         | 383203.74          | 32°03'07.925"N | 103°45'28.910"W | 10.00         | EOC      |
| 9325.00†  | 90.000          | 356.778     | 8970.00  | 600.93         | 599.98     | -33.78    | 719573.11         | 383231.63          | 32°03'08.201"N | 103°45'28.927"W | 0.00          |          |
| 9425.00†  | 90.000          | 356.778     | 8970.00  | 700.93         | 699.83     | -39.40    | 719567.48         | 383331.47          | 32°03'09.190"N | 103°45'28.986"W | 0.00          |          |
| 9525.00†  | 90.000          | 356.778     | 8970.00  | 800.93         | 799.67     | -45.02    | 719561.86         | 383431.30          | 32°03'10.178"N | 103°45'29.045"W | 0.00          |          |
| 9625.00†  | 90.000          | 356.778     | 8970.00  | 900.93         | 899.51     | -50.64    | 719556.24         | 383531.14          | 32°03'11.166"N | 103°45'29.104"W | 0.00          |          |
| 9725.00†  | 90.000          | 356.778     | 8970.00  | 1000.93        | 999.35     | -56.26    | 719550.62         | 383630.97          | 32°03'12.155"N | 103°45'29.163"W | 0.00          |          |
| 9825.00†  | 90.000          | 356.778     | 8970.00  | 1100.93        | 1099.19    | -61.88    | 719545.00         | 383730.81          | 32°03'13.143"N | 103°45'29.222"W | 0.00          |          |
| 9925.00†  | 90.000          | 356.778     | 8970.00  | 1200.93        | 1199.04    | -67.50    | 719539.38         | 383830.65          | 32°03'14.131"N | 103°45'29.282"W | 0.00          |          |
| 10025.00† | 90.000          | 356.778     | 8970.00  | 1300.93        | 1298.88    | -73.12    | 719533.76         | 383930.48          | 32°03'15.119"N | 103°45'29.341"W | 0.00          |          |
| 10125.00† | 90.000          | 356.778     | 8970.00  | 1400.93        | 1398.72    | -78.74    | 719528.14         | 384030.32          | 32°03'16.108"N | 103°45'29.400"W | 0.00          |          |
| 10225.00† | 90.000          | 356.778     | 8970.00  | 1500.93        | 1498.56    | -84.36    | 719522.52         | 384130.16          | 32°03'17.096"N | 103°45'29.459"W | 0.00          |          |
| 10325.00† | 90.000          | 356.778     | 8970.00  | 1600.93        | 1598.40    | -89.98    | 719516.90         | 384229.99          | 32°03'18.084"N | 103°45'29.518"W | 0.00          |          |
| 10425.00† | 90.000          | 356.778     | 8970.00  | 1700.93        | 1698.24    | -95.60    | 719511.28         | 384329.83          | 32°03'19.072"N | 103°45'29.577"W | 0.00          |          |
| 10525.00† | 90.000          | 356.778     | 8970.00  | 1800.93        | 1798.09    | -101.22   | 719505.66         | 384429.67          | 32°03'20.061"N | 103°45'29.636"W | 0.00          |          |
| 10625.00† | 90.000          | 356.778     | 8970.00  | 1900.93        | 1897.93    | -106.85   | 719500.04         | 384529.50          | 32°03'21.049"N | 103°45'29.695"W | 0.00          |          |
| 10725.00† | 90.000          | 356.778     | 8970.00  | 2000.93        | 1997.77    | -112.47   | 719494.42         | 384629.34          | 32°03'22.037"N | 103°45'29.755"W | 0.00          |          |
| 10825.00† | 90.000          | 356.778     | 8970.00  | 2100.93        | 2097.61    | -118.09   | 719488.80         | 384729.17          | 32°03'23.025"N | 103°45'29.814"W | 0.00          |          |
| 10925.00† | 90.000          | 356.778     | 8970.00  | 2200.93        | 2197.45    | -123.71   | 719483.18         | 384829.01          | 32°03'24.014"N | 103°45'29.873"W | 0.00          |          |
| 11025.00† | 90.000          | 356.778     | 8970.00  | 2300.93        | 2297.30    | -129.33   | 719477.56         | 384928.85          | 32°03'25.002"N | 103°45'29.932"W | 0.00          |          |
| 11125.00† | 90.000          | 356.778     | 8970.00  | 2400.93        | 2397.14    | -134.95   | 719471.94         | 385028.68          | 32°03'25.990"N | 103°45'29.991"W | 0.00          |          |
| 11225.00† | 90.000          | 356.778     | 8970.00  | 2500.93        | 2496.98    | -140.57   | 719466.32         | 385128.52          | 32°03'26.978"N | 103°45'30.050"W | 0.00          |          |
| 11325.00† | 90.000          | 356.778     | 8970.00  | 2600.93        | 2596.82    | -146.19   | 719460.70         | 385228.36          | 32°03'27.967"N | 103°45'30.109"W | 0.00          |          |
| 11425.00† | 90.000          | 356.778     | 8970.00  | 2700.93        | 2696.66    | -151.81   | 719455.08         | 385328.19          | 32°03'28.955"N | 103°45'30.168"W | 0.00          |          |
| 11525.00† | 90.000          | 356.778     | 8970.00  | 2800.93        | 2796.51    | -157.43   | 719449.46         | 385428.03          | 32°03'29.943"N | 103°45'30.228"W | 0.00          |          |
| 11625.00† | 90.000          | 356.778     | 8970.00  | 2900.93        | 2896.35    | -163.05   | 719443.84         | 385527.86          | 32°03'30.931"N | 103°45'30.287"W | 0.00          |          |
| 11725.00† | 90.000          | 356.778     | 8970.00  | 3000.93        | 2996.19    | -168.67   | 719438.22         | 385627.70          | 32°03'31.920"N | 103°45'30.346"W | 0.00          |          |
| 11825.00† | 90.000          | 356.778     | 8970.00  | 3100.93        | 3096.03    | -174.29   | 719432.60         | 385727.54          | 32°03'32.908"N | 103°45'30.405"W | 0.00          |          |
| 11925.00† | 90.000          | 356.778     | 8970.00  | 3200.93        | 3195.87    | -179.91   | 719426.98         | 385827.37          | 32°03'33.896"N | 103°45'30.464"W | 0.00          |          |
| 12025.00† | 90.000          | 356.778     | 8970.00  | 3300.93        | 3295.72    | -185.54   | 719421.36         | 385927.21          | 32°03'34.884"N | 103°45'30.523"W | 0.00          |          |
| 12125.00† | 90.000          | 356.778     | 8970.00  | 3400.93        | 3395.56    | -191.16   | 719415.73         | 386027.05          | 32°03'35.873"N | 103°45'30.582"W | 0.00          |          |
| 12225.00† | 90.000          | 356.778     | 8970.00  | 3500.93        | 3495.40    | -196.78   | 719410.11         | 386126.88          | 32°03'36.861"N | 103°45'30.642"W | 0.00          |          |
| 12325.00† | 90.000          | 356.778     | 8970.00  | 3600.93        | 3595.24    | -202.40   | 719404.49         | 386226.72          | 32°03'37.849"N | 103°45'30.701"W | 0.00          |          |
| 12425.00† | 90.000          | 356.778     | 8970.00  | 3700.93        | 3695.08    | -208.02   | 719398.87         | 386326.55          | 32°03'38.838"N | 103°45'30.760"W | 0.00          |          |
| 12525.00† | 90.000          | 356.778     | 8970.00  | 3800.93        | 3794.92    | -213.64   | 719393.25         | 386426.39          | 32°03'39.826"N | 103°45'30.819"W | 0.00          |          |
| 12625.00† | 90.000          | 356.778     | 8970.00  | 3900.93        | 3894.77    | -219.26   | 719387.63         | 386526.23          | 32°03'40.814"N | 103°45'30.878"W | 0.00          |          |
| 12725.00† | 90.000          | 356.778     | 8970.00  | 4000.93        | 3994.61    | -224.88   | 719382.01         | 386626.06          | 32°03'41.802"N | 103°45'30.937"W | 0.00          |          |
| 12825.00† | 90.000          | 356.778     | 8970.00  | 4100.93        | 4094.45    | -230.50   | 719376.39         | 386725.90          | 32°03'42.791"N | 103°45'30.996"W | 0.00          |          |
| 12925.00† | 90.000          | 356.778     | 8970.00  | 4200.93        | 4194.29    | -236.12   | 719370.77         | 386825.74          | 32°03'43.779"N | 103°45'31.055"W | 0.00          |          |
| 13025.00† | 90.000          | 356.778     | 8970.00  | 4300.93        | 4294.13    | -241.74   | 719365.15         | 386925.57          | 32°03'44.767"N | 103°45'31.115"W | 0.00          |          |
| 13125.00† | 90.000          | 356.778     | 8970.00  | 4400.93        | 4393.98    | -247.36   | 719359.53         | 387025.41          | 32°03'45.755"N | 103°45'31.174"W | 0.00          |          |



# Planned Wellpath Report

Rev-A.0  
Page 5 of 5



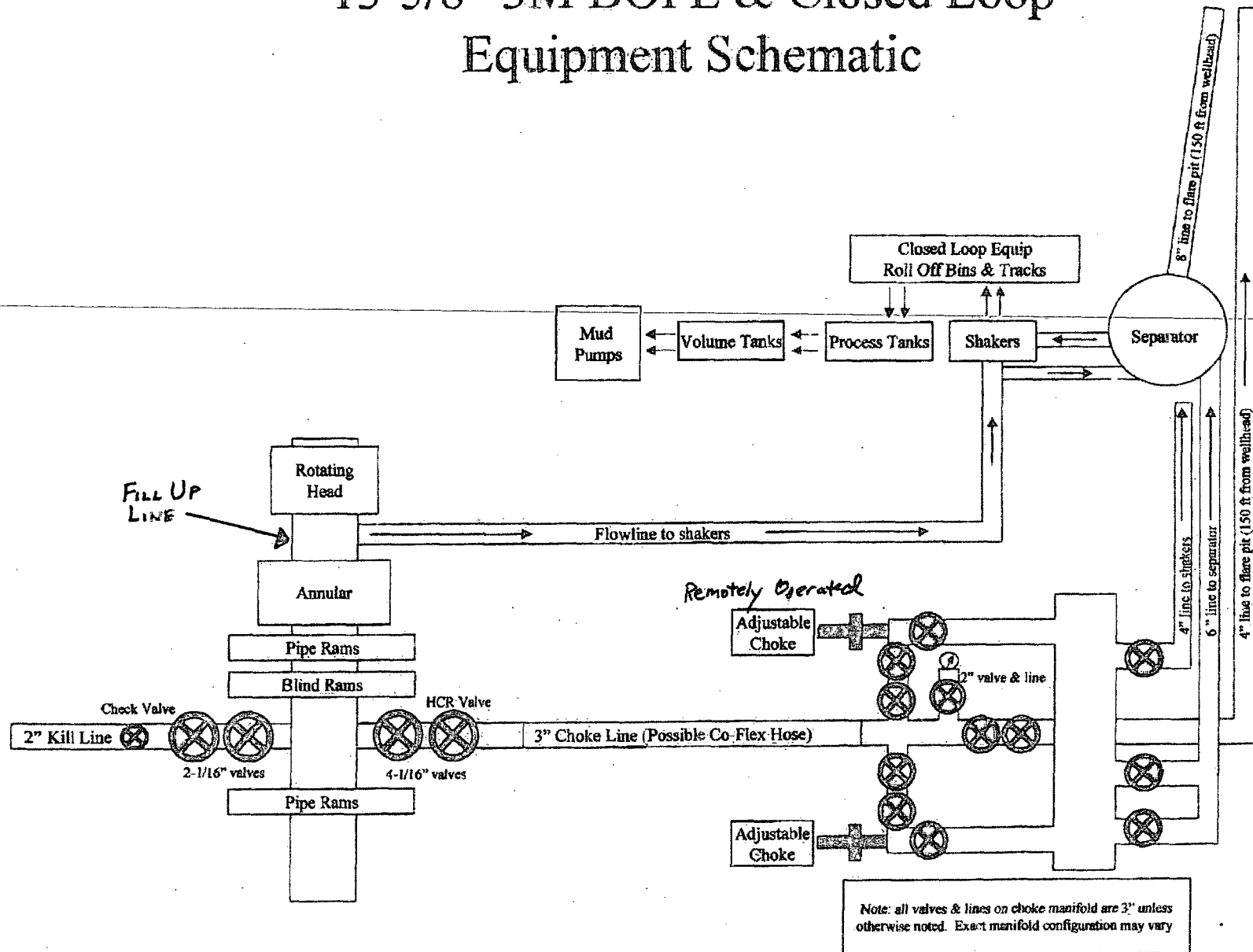
| REFERENCE WELLPATH IDENTIFICATION |                                |          |           |
|-----------------------------------|--------------------------------|----------|-----------|
| Operator                          | Devon Energy                   | Slot     | No.5H SHL |
| Area                              | Eddy County, NM                | Well     | No.5H     |
| Field                             | (Snapping) Sec. 10, T26S, R31E | Wellbore | No.5H PWB |
| Facility                          | Snapping 10 Federal No.5H      |          |           |

| WELLPATH DATA (140 stations) † = interpolated/extrapolated station |                    |                |             |                   |               |              |                      |                       |                |                 |                  |            |
|--------------------------------------------------------------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------------|-----------------------|----------------|-----------------|------------------|------------|
| MD<br>[ft]                                                         | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | Vert Sect<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[US ft] | Grid North<br>[US ft] | Latitude       | Longitude       | DLS<br>[°/100ft] | Comments   |
| 13225.00†                                                          | 90.000             | 356.778        | 8970.00     | 4500.93           | 4493.82       | -252.98      | 719353.91            | 387125.24             | 32°03'46.744"N | 103°45'31.233"W | 0.00             |            |
| 13325.00†                                                          | 90.000             | 356.778        | 8970.00     | 4600.93           | 4593.66       | -258.60      | 719348.29            | 387225.08             | 32°03'47.732"N | 103°45'31.292"W | 0.00             |            |
| 13425.00†                                                          | 90.000             | 356.778        | 8970.00     | 4700.93           | 4693.50       | -264.23      | 719342.67            | 387324.92             | 32°03'48.720"N | 103°45'31.351"W | 0.00             |            |
| 13525.00†                                                          | 90.000             | 356.778        | 8970.00     | 4800.93           | 4793.34       | -269.85      | 719337.05            | 387424.75             | 32°03'49.708"N | 103°45'31.410"W | 0.00             |            |
| 13559.15                                                           | 90.000             | 356.778        | 8970.00     | 4835.09           | 4827.44       | -271.77      | 719335.13            | 387458.85             | 32°03'50.046"N | 103°45'31.430"W | 0.00             | No.5H PBHL |

| TARGETS               |            |             |               |              |                      |                       |                |                 |       |
|-----------------------|------------|-------------|---------------|--------------|----------------------|-----------------------|----------------|-----------------|-------|
| Name                  | MD<br>[ft] | TVD<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[US ft] | Grid North<br>[US ft] | Latitude       | Longitude       | Shape |
| 1) No.5H PBHL (Rev-0) | 13559.15   | 8970.00     | 4827.44       | -271.77      | 719335.13            | 387458.85             | 32°03'50.046"N | 103°45'31.430"W | point |

| SURVEY PROGRAM - Ref Wellbore: No.5H PWB Ref Wellpath: Rev-A.0 |                |                                        |                  |           |
|----------------------------------------------------------------|----------------|----------------------------------------|------------------|-----------|
| Start MD<br>[ft]                                               | End MD<br>[ft] | Positional Uncertainty Model           | Log Name/Comment | Wellbore  |
| 25.00                                                          | 8000.00        | Generic gyro - northseeking (Standard) |                  | No.5H PWB |
| 8000.00                                                        | 13559.15       | NaviTrak (Standard)                    |                  | No.5H PWB |

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



## **NOTES REGARDING BLOWOUT PREVENTERS**

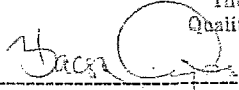
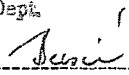
Devon Energy Production Company, LP

### **Snapping 10 Federal 5H**

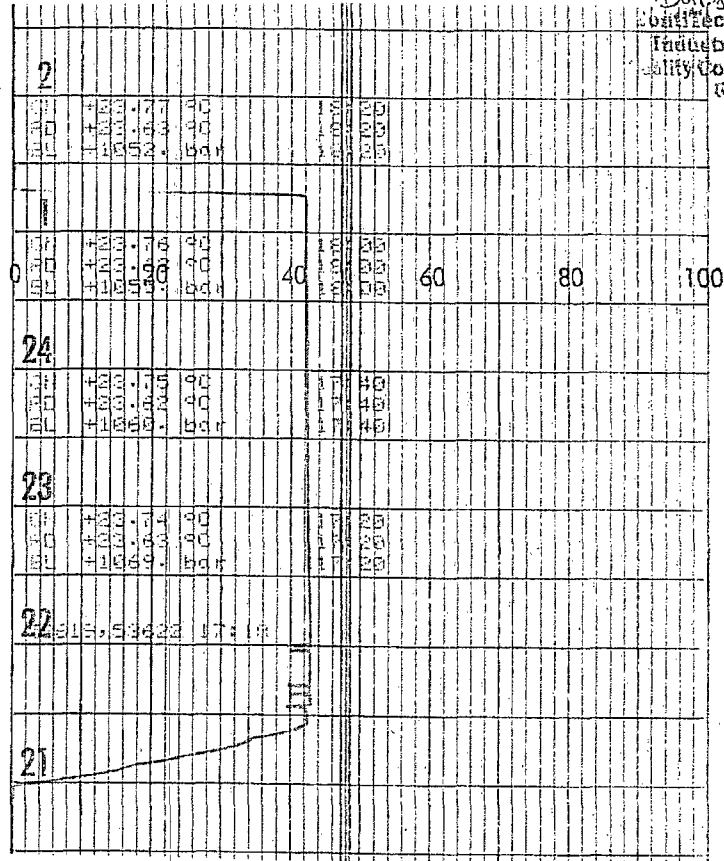
Surface Location: 175' FSL & 160' FEL, Unit P, Sec 10 T26S R31E, Eddy, NM

Bottom Hole Location: 330' FNL & 400' FEL, Unit A, Sec 10 T26S 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.

|                                                                                                                                                                                                                                                                                                                                                                                                    |  |                                        |  |                                                                                                                                                                                                                                                               |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>QUALITY CONTROL<br/>INSPECTION AND TEST CERTIFICATE</b>                                                                                                                                                                                                                                                                                                                                         |  |                                        |  | CERT. N°: 1713                                                                                                                                                                                                                                                |  |
| PURCHASER: ContiTech Beattie Co.                                                                                                                                                                                                                                                                                                                                                                   |  |                                        |  | P.O. N°: 002808                                                                                                                                                                                                                                               |  |
| CONTITECH ORDER N°: 426127                                                                                                                                                                                                                                                                                                                                                                         |  | HOSE TYPE: 3" ID Choke and Kill Hose   |  |                                                                                                                                                                                                                                                               |  |
| HOSE SERIAL N°: 53622                                                                                                                                                                                                                                                                                                                                                                              |  | NOMINAL / ACTUAL LENGTH: 10,67 m       |  |                                                                                                                                                                                                                                                               |  |
| W.P. 68,96 MPa 10000 psi                                                                                                                                                                                                                                                                                                                                                                           |  | T.P. 103,4 MPa 15000 psi               |  | Duration: 60 min.                                                                                                                                                                                                                                             |  |
| Pressure test with water at ambient temperature                                                                                                                                                                                                                                                                                                                                                    |  | See attachment. (1 page)               |  |                                                                                                                                                                                                                                                               |  |
| ↑ 10 mm = 10 Min.<br>→ 10 mm = 25 MPa                                                                                                                                                                                                                                                                                                                                                              |  |                                        |  |                                                                                                                                                                                                                                                               |  |
| COUPLINGS Type                                                                                                                                                                                                                                                                                                                                                                                     |  | Serial N°                              |  | Quality                                                                                                                                                                                                                                                       |  |
| 3" coupling with<br>4 1/16" Flange end                                                                                                                                                                                                                                                                                                                                                             |  | 5503 2029                              |  | AISI 4130<br>AISI 4130                                                                                                                                                                                                                                        |  |
|                                                                                                                                                                                                                                                                                                                                                                                                    |  |                                        |  | Heat N°<br>N1590P<br>27566                                                                                                                                                                                                                                    |  |
| INFOCHIP INSTALLED                                                                                                                                                                                                                                                                                                                                                                                 |  | API Spec 16 C<br>Temperature rate: "B" |  |                                                                                                                                                                                                                                                               |  |
| All metal parts are flawless                                                                                                                                                                                                                                                                                                                                                                       |  | Hose conform to NACE MR 01-75          |  |                                                                                                                                                                                                                                                               |  |
| WE CERTIFY THAT THE ABOVE HOSE HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE TERMS OF THE ORDER<br>INSPECTED AND PRESSURE TESTED AS ABOVE WITH SATISFACTORY RESULT.                                                                                                                                                                                                                                 |  |                                        |  |                                                                                                                                                                                                                                                               |  |
| STATEMENT OF CONFORMITY: We hereby certify that the above items/equipment supplied by us are in conformity with the terms, conditions and specifications of the above Purchaser Order and that these items/equipment were fabricated inspected and tested in accordance with the referenced standards, codes and specifications and meet the relevant acceptance criteria and design requirements. |  |                                        |  |                                                                                                                                                                                                                                                               |  |
| COUNTRY OF ORIGIN HUNGARY/EU                                                                                                                                                                                                                                                                                                                                                                       |  |                                        |  |                                                                                                                                                                                                                                                               |  |
| Date:<br><br>25. August. 2008                                                                                                                                                                                                                                                                                                                                                                      |  | Inspector                              |  | Quality Control<br>ContiTech Rubber<br>Industrial Kft.<br>Quality Control Dept.<br>  |  |

HARTMANN &





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

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

**For**

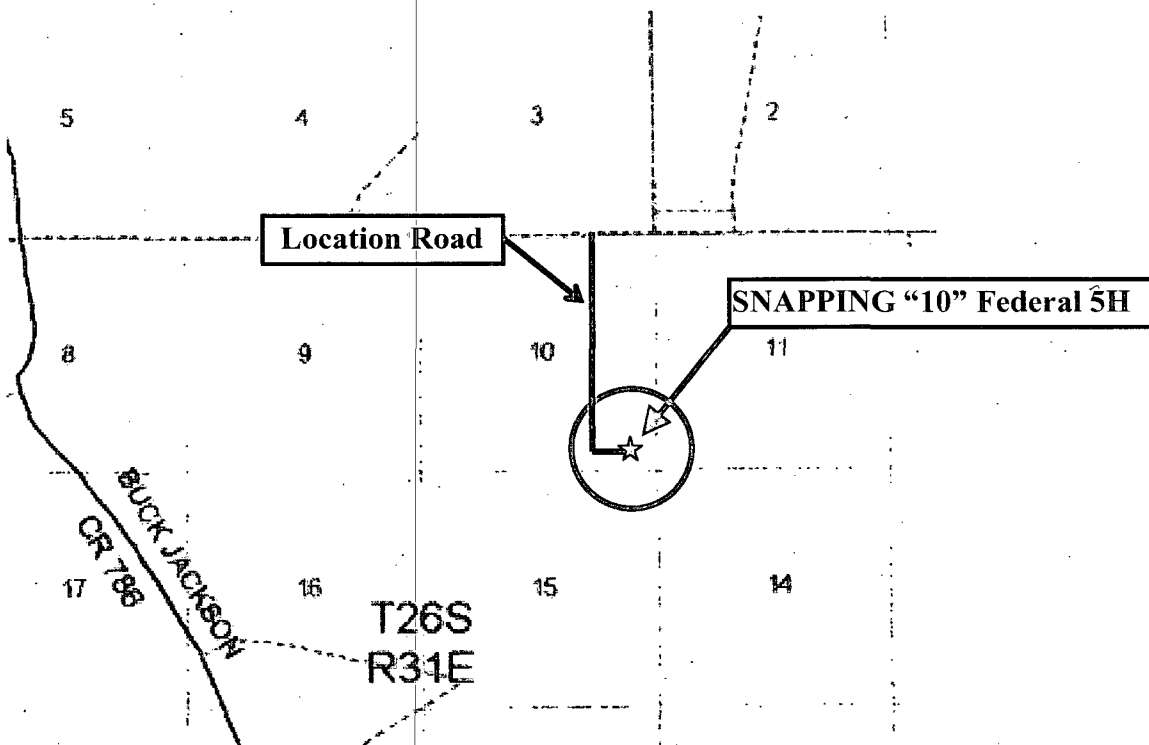
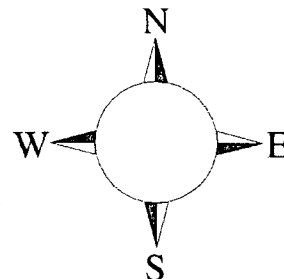
**SNAPPING "10" Federal 5H**

**Sec-10, T-26S R-31E  
175' FSL & 160' FEL,  
LAT. = 32.10506285'N (NAD83)  
LONG = 103.7579365'W**

**Eddy County NM**

## SNAPPING "10" Federal 5H

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 3000' ( )  
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 on lease road. Crews should then block entrance to the location from the lease road so as not to allow anyone traversing into a hazardous area. The blockade should be at a safe distance outside of the ROE. 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>**

| Common Name      | Chemical Formula | Specific Gravity | Threshold Limit | Hazardous Limit | Lethal Concentration |
|------------------|------------------|------------------|-----------------|-----------------|----------------------|
| Hydrogen Sulfide | H <sub>2</sub> S | 1.189<br>Air = 1 | 10 ppm          | 100 ppm/hr      | 600 ppm              |
| Sulfur Dioxide   | 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 – Robert Bell.....      | 748-7448 .....     | 748-0178 .....     | 746-2991       |
| Asst. Foreman –Tommy Polly..... | 748-5290 .....     | 748-0165 .....     | 748-2846       |
| Don Mayberry .....              | 748-5235 .....     | 748-0164 .....     | 746-4945       |
| Montral Walker .....            | 390-5182 .....     | 748-0193 .....     | 936-414-6246   |
| Engineer – Marcos Ortiz.....    | (405) 317-0666.... | (405) 552-8152.... | (405) 381-4350 |

## Agency Call List

### Lea      **Hobbs**

|               |                                                |          |
|---------------|------------------------------------------------|----------|
| <u>County</u> | State Police .....                             | 392-5588 |
| <u>(575)</u>  | City Police .....                              | 397-9265 |
|               | Sheriff's Office .....                         | 393-2515 |
|               | Ambulance.....                                 | 911      |
|               | Fire Department .....                          | 397-9308 |
|               | LEPC (Local Emergency Planning Committee)..... | 393-2870 |
|               | NMOCD .....                                    | 393-6161 |
|               | US Bureau of Land Management .....             | 393-3612 |

### Eddy      **Carlsbad**

|               |                                                         |                |
|---------------|---------------------------------------------------------|----------------|
| <u>County</u> | State Police .....                                      | 885-3137       |
| <u>(575)</u>  | City Police .....                                       | 885-2111       |
|               | Sheriff's Office .....                                  | 887-7551       |
|               | Ambulance.....                                          | 911            |
|               | Fire Department .....                                   | 885-2111       |
|               | LEPC (Local Emergency Planning Committee).....          | 887-3798       |
|               | US Bureau of Land Management .....                      | 887-6544       |
|               | New Mexico Emergency Response Commission (Santa Fe) ... | (505)476-9600  |
|               | 24 HR .....                                             | (505) 827-9126 |
|               | National Emergency Response Center (Washington, DC) ..  | (800) 424-8802 |

### **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



## **Hydrogen Sulfide Drilling Operation Plan**

### **I. HYDROGEN SULFIDE (H<sub>2</sub>S) TRAINING**

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

1. The hazards and characteristics of hydrogen sulfide (H<sub>2</sub>S)
2. The proper use and maintenance of personal protective equipment and life support systems.
3. The proper use of H<sub>2</sub>S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
4. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

1. The effects of H<sub>2</sub>S metal components. If high tensile tubular are to be used, personnel will be trained in their special maintenance requirements.
2. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
3. The contents and requirements of the H<sub>2</sub>S Drilling Operations Plan and Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H<sub>2</sub>S zone (within 3 days or 500 feet) and weekly H<sub>2</sub>S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H<sub>2</sub>S Drilling Operations Plan and the Public Protection Plan.

## **II. HYDROGEN SULFIDE TRAINING**

Note: All H<sub>2</sub>S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonable expected to contain H<sub>2</sub>S.

### **1. Well Control Equipment**

- A. Flare line
- B. Choke manifold
- C. Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit
- D. Auxiliary equipment may include if applicable: annular preventer and rotating head.

### **2. Protective equipment for essential personnel:**

- A. 30-minute SCBA units located in the doghouse and at briefing areas, as indicated on well site diagram. As it may be difficult to communicate audibly while wearing these units, hand signals shall be utilized.

### **3. H<sub>2</sub>S detection and monitoring equipment:**

- A. Portable H<sub>2</sub>S monitors positioned on location for best coverage and response. These units have warning lights and audible sirens when H<sub>2</sub>S levels of 20 PPM are reached. These units are usually capable of detecting SO<sub>2</sub>, which is a byproduct of burning H<sub>2</sub>S.

### **4. Visual warning systems:**

- A. Wind direction indicators as shown on well site diagram
- B. Caution/ Danger signs shall be posted on roads providing direct access to locations. Signs will be painted a high visibility yellow with black lettering of sufficient size to be reasonable distance from the immediate location. Bilingual signs will be used when appropriate..

### **5. Mud program:**

- A. The mud program has been designed to minimize the volume of H<sub>2</sub>S circulated to surface. Proper mud weight, safe drilling practices and the use of H<sub>2</sub>S scavengers will minimize hazards when penetrating H<sub>2</sub>S bearing zones.

**6. Metallurgy:**

- A. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold lines, and valves shall be H<sub>2</sub>S trim.
- B. All elastomers used for packing and seals shall be H<sub>2</sub>S trim.

**7. Communication:**

- A. Radio communications in company vehicles including cellular telephones and 2-way radio
- B. Land line (telephone) communications at Office

**8. Well testing:**

- A. Drill stem testing will be performed with a minimum number of personnel in the immediate vicinity, which are necessary to safety and adequately conduct the test. The drill stem testing will be conducted during daylight hours and formation fluids will not be flowed to the surface. All drill-stem-testing operations conducted in an H<sub>2</sub>S environment will use the closed chamber method of testing.
- B. There will be no drill stem testing.

## Devon Energy Corp. Company Call List

| <u>Artesia (575)</u>            | <u>Cellular</u>     | <u>Office</u>       | <u>Home</u>    |
|---------------------------------|---------------------|---------------------|----------------|
| Foreman – Robert Bell .....     | 748-7448 .....      | 748-0178 .....      | 746-2991       |
| Asst. Foreman –Tommy Polly..... | 748-5290 .....      | 748-0165 .....      | 748-2846       |
| Don Mayberry .....              | 748-5235 .....      | 748-0164 .....      | 746-4945       |
| Montral Walker .....            | 390-5182 .....      | 748-0193 .....      | 936-414-6246   |
| Engineer – Marcos Ortiz.....    | (405) 317-0666..... | (405) 552-8152..... | (405) 381-4350 |

## 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) ..  |

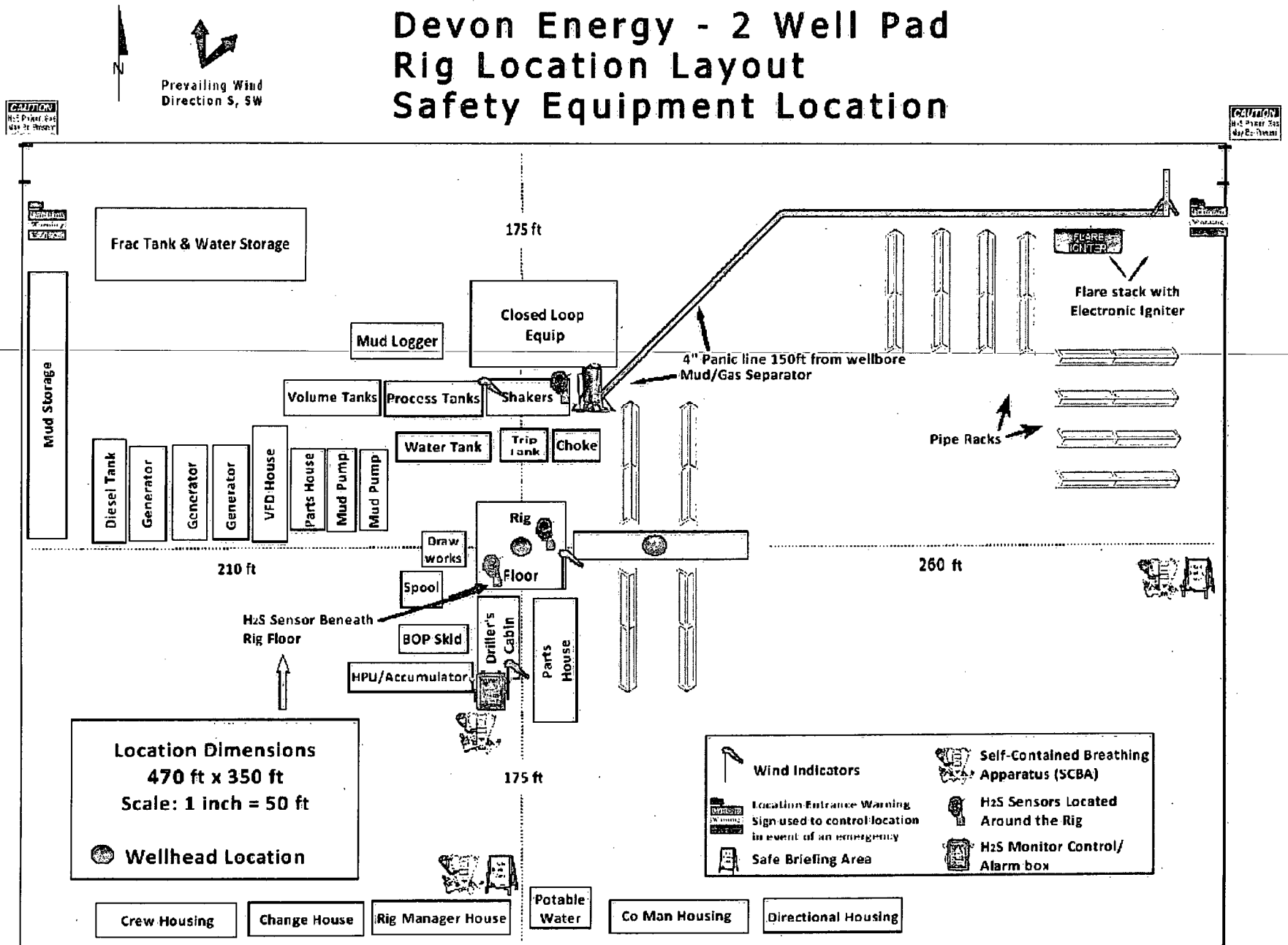
### **Emergency Services**

|                  |                                              |
|------------------|----------------------------------------------|
|                  | Boots & Coots IWC .....                      |
|                  | Cudd Pressure Control.....                   |
|                  | Halliburton .....                            |
|                  | B. J. Services.....                          |
| <i>Give</i>      | Flight For Life - Lubbock, TX .....          |
| <i>GPS</i>       | Aerocare - Lubbock, TX .....                 |
| <i>position:</i> | Med Flight Air Amb - Albuquerque, NM .....   |
|                  | Lifeguard Air Med Svc. Albuquerque, NM ..... |

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# Devon Energy - 2 Well Pad Rig Location Layout Safety Equipment Location



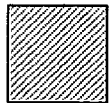


## Proposed Interim Site Configuration

Devon Energy Production Co.  
Snapping 10 Federal #5H  
175' FSL & 160' FEL  
Sec. 10 T26S R31E  
Eddy County,  
NM

Well to occupy a  
2-well pad with  
well #6H. Both  
wells will produce  
to the same  
facility.

Proposed  
Reclamation Area



Access Road

Access Road

Reclaimed area

Facility area

N

Dimensions and  
scale are  
approximate

Facility area

Original location size:  
470' x 350'

80'

170'

200'

350'

6H

5H

130'

50'

130'

160'

# PECOS DISTRICT CONDITIONS OF APPROVAL

|                       |                                      |
|-----------------------|--------------------------------------|
| OPERATOR'S NAME:      | DEVON ENERGY PRODUCTION CO.          |
| LEASE NO.:            | NM89057                              |
| WELL NAME & NO.:      | 5H-SNAPPING 10 FEDERAL               |
| SURFACE HOLE FOOTAGE: | 175'/S. & 160'/E.                    |
| BOTTOM HOLE FOOTAGE:  | 330'/N. & 400'/E.                    |
| LOCATION:             | Section 10, T. 26 S., R. 31 E., NMPM |
| COUNTY:               | Eddy County, New Mexico              |

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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.

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- ☐ **Noxious Weeds**
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  - Topsoil
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  - Roads
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  - Waste Material and Fluids
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  - Pipelines
  - Electric Lines
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