

District I  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720  
District II  
311 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-0720  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6173 Fax: (505) 334-6170  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

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 August 1, 2011  
Submit one copy to appropriate  
District Office  
☐ AMENDED REPORT

**AUG 15 2013**

**RECEIVED**

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

|                                                |                                                                            |                                        |                                                        |
|------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------|--------------------------------------------------------|
| <sup>1</sup> API Number<br><b>30-025-41341</b> |                                                                            | <sup>2</sup> Pool Code<br><b>59900</b> | <sup>3</sup> Pool Name<br><b>TRIPLE X; BONE SPRING</b> |
| <sup>4</sup> Property Code<br><b>30884</b>     | <sup>5</sup> Property Name<br><b>THISTLE UNIT</b>                          |                                        | <sup>6</sup> Well Number<br><b>57H</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>3689.2</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>O</b>      | <b>22</b> | <b>23 S</b> | <b>33 E</b> |         | <b>150</b>    | <b>SOUTH</b>     | <b>2150</b>   | <b>EAST</b>    | <b>LEA</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>O</b>      | <b>27</b> | <b>23 S</b> | <b>33 E</b> |         | <b>330</b>    | <b>SOUTH</b>     | <b>1980</b>   | <b>EAST</b>    | <b>LEA</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. |
|---------------------------------------------|-------------------------------|----------------------------------|-------------------------|

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.

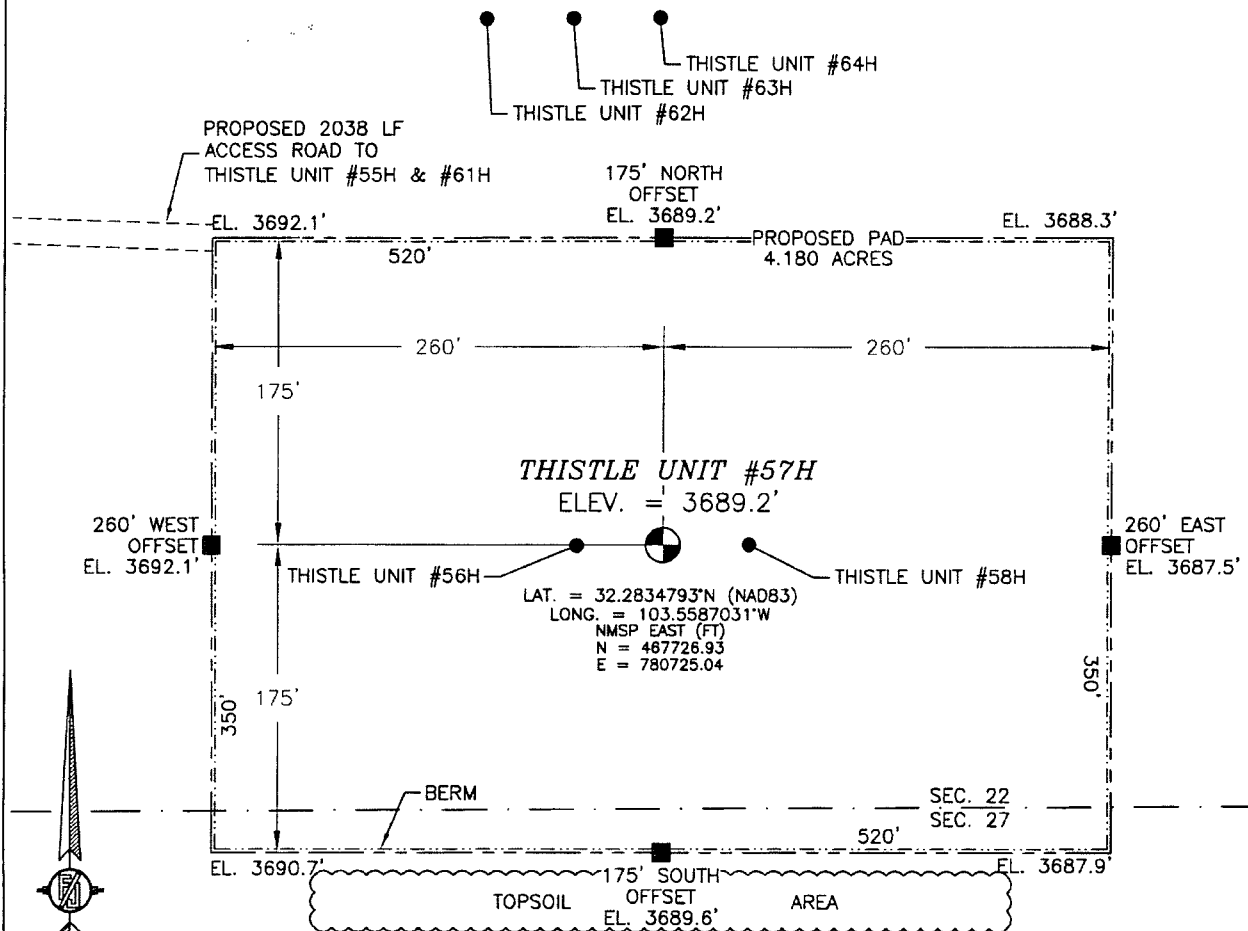
|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p><b><sup>17</sup> OPERATOR CERTIFICATION</b></p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the Division.</p> <p><i>[Signature]</i> <b>8/14/2013</b><br/>Signature Date</p> <p><b>David H. Cook</b> Regulatory Specialist<br/>Printed Name</p> <p><b>david.cook@dvn.com</b><br/>E-mail Address</p> |
|  | <p><b><sup>18</sup> SURVEYOR CERTIFICATION</b></p> <p>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.</p> <p><b>JULY 11 2013</b><br/>Date of Survey</p> <p><i>[Signature]</i><br/>Signature and Seal of Professional Surveyor</p> <p>Certificate Number: <b>FILIMONT, JARAMILLO, PLS 12797</b><br/>SURVEY NO. 2110</p>                                                                                                                                                                                                                                                                   |
|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

**AUG 16 2013**

SECTION 22, TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M.  
LEA COUNTY, STATE OF NEW MEXICO

SITE MAP

NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83). LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE



0 10 50 100 200

SCALE 1" = 100'

DIRECTIONS TO LOCATION

FROM STATE HIGHWAY 128 AND CR 21 (DELAWARE BASIN) GO NORTH ON CR 21 3.95 MILES, TURN LEFT ON PAVED ROAD (XL ROAD) AND GO WEST 3.4 MILES, TURN RIGHT ON CALICHE ROAD AND GO NORTH 0.9 MILES, BEND LEFT AND GO NORTHWEST 0.15 MILES, BEND RIGHT AND GO NORTHEAST 0.1 MILES, BEND RIGHT AND GO EAST 375' TO A PROPOSED ROAD SURVEY AND FOLLOW FLAGS EAST 92', BEND LEFT AND FOLLOW FLAGS NORTHEAST 187' TO THE NORTHWEST CORNER OF PROPOSED THISTLE UNIT #55H PAD, THEN FROM THE NORTHEAST CORNER OF #55H PAD FOLLOW FLAGS EAST-SOUTHEAST 2038' TO THE NORTHWEST CORNER OF PROPOSED PAD FOR THIS LOCATION.

DEVON ENERGY PRODUCTION COMPANY, L.P.

**THISTLE UNIT #57H**

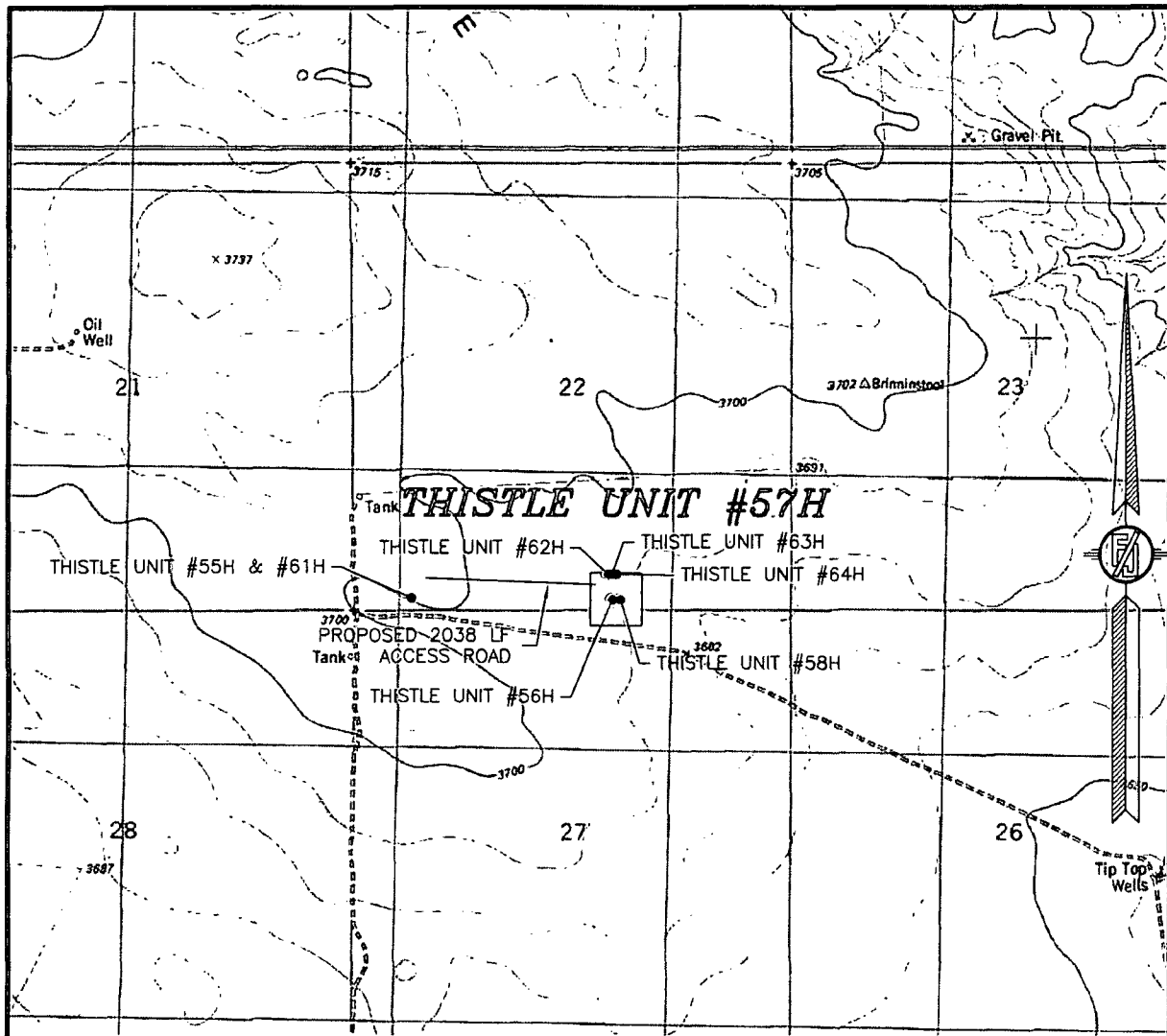
LOCATED 150 FT. FROM THE SOUTH LINE  
AND 2150 FT. FROM THE EAST LINE OF  
SECTION 22, TOWNSHIP 23 SOUTH,  
RANGE 33 EAST, N.M.P.M.  
LEA COUNTY, STATE OF NEW MEXICO

JULY 31, 2013

SURVEY NO. 2110

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SECTION 22, TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M.  
LEA COUNTY, STATE OF NEW MEXICO  
LOCATION VERIFICATION MAP



USGS QUAD MAP:  
TIP TOP WELLS

NOT TO SCALE

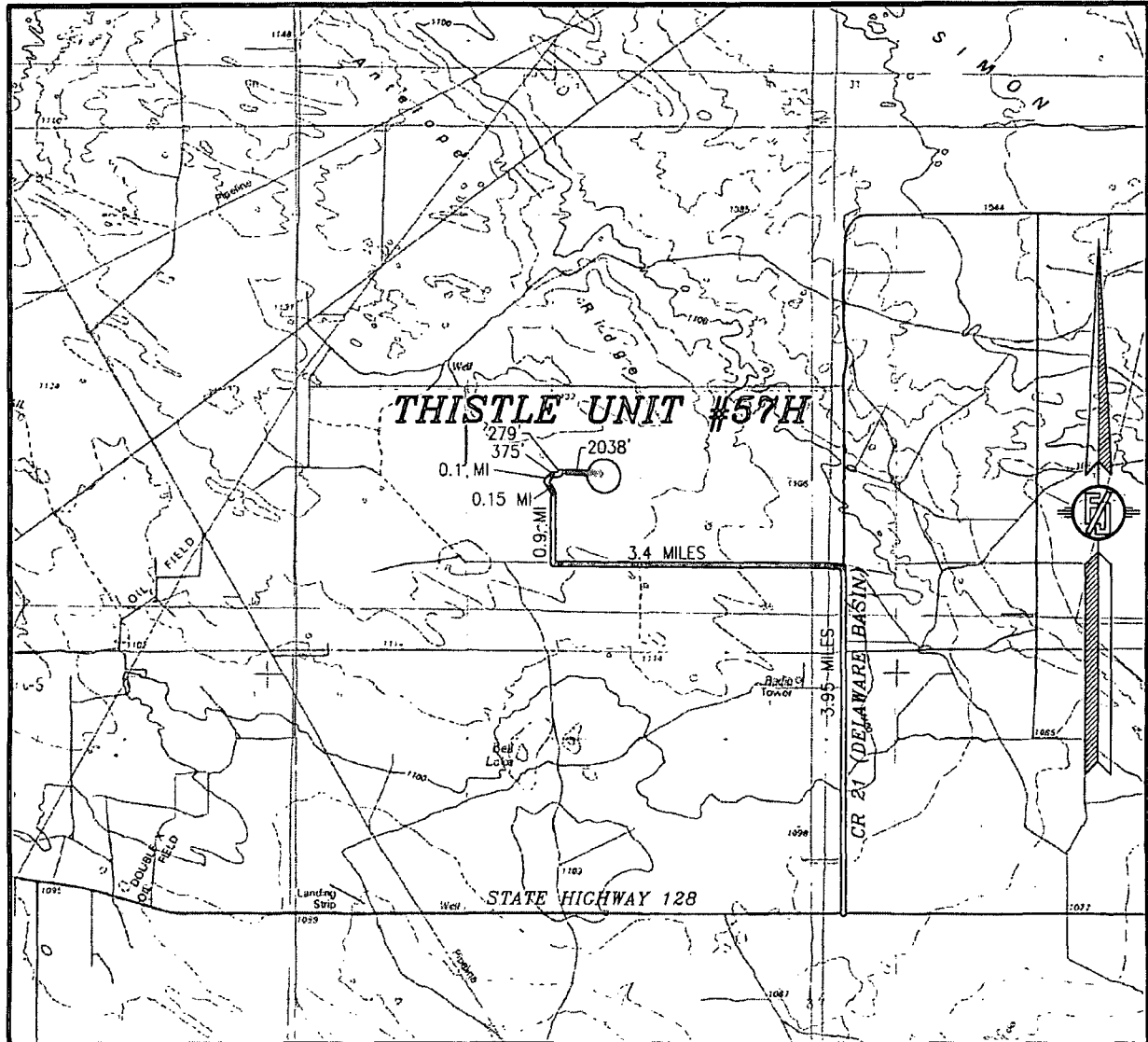
DEVON ENERGY PRODUCTION COMPANY, L.P.  
**THISTLE UNIT #57H**

LOCATED 150 FT. FROM THE SOUTH LINE  
AND 2150 FT. FROM THE EAST LINE OF  
SECTION 22, TOWNSHIP 23 SOUTH,  
RANGE 33 EAST, N.M.P.M.  
LEA COUNTY, STATE OF NEW MEXICO

JULY 31, 2013

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO SURVEY NO. 2110

SECTION 22, TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M.  
LEA COUNTY, STATE OF NEW MEXICO  
VICINITY MAP



NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P.

**THISTLE UNIT #57H**

LOCATED 150 FT. FROM THE SOUTH LINE  
AND 2150 FT. FROM THE EAST LINE OF  
SECTION 22, TOWNSHIP 23 SOUTH,  
RANGE 33 EAST, N.M.P.M.  
LEA COUNTY, STATE OF NEW MEXICO

JULY 31, 2013

**DIRECTIONS TO LOCATION**

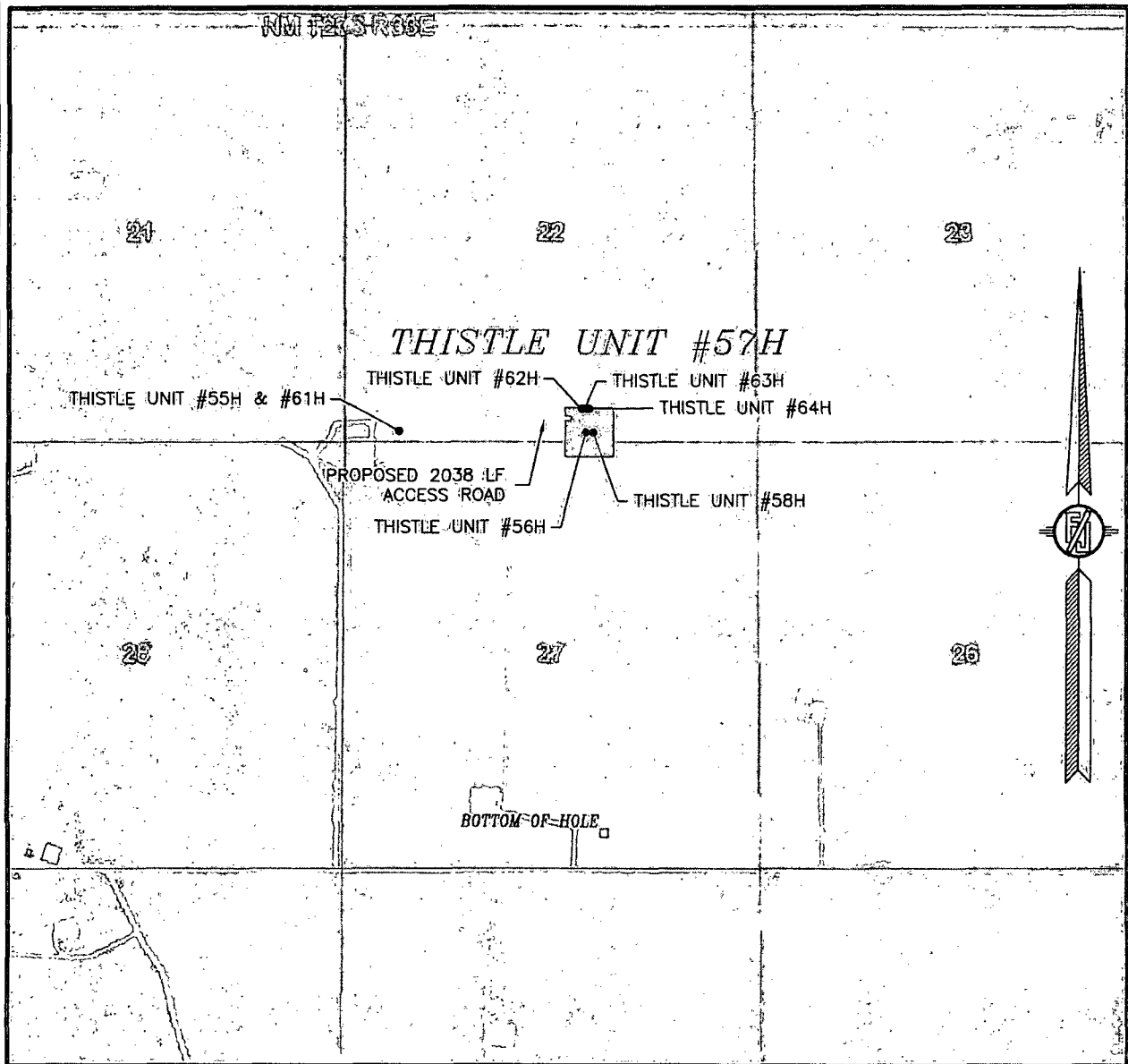
FROM STATE HIGHWAY 128 AND CR 21 (DELAWARE BASIN) GO NORTH ON CR 21 3.95 MILES, TURN LEFT ON PAVED ROAD (XL ROAD) AND GO WEST 3.4 MILES, TURN RIGHT ON CALICHE ROAD AND GO NORTH 0.9 MILES, BEND LEFT AND GO NORTHWEST 0.15 MILES, BEND RIGHT AND GO NORTHEAST 0.1 MILES, BEND RIGHT AND GO EAST 375' TO A PROPOSED ROAD SURVEY AND FOLLOW FLAGS EAST 92', BEND LEFT AND FOLLOW FLAGS NORTHEAST 187' TO THE NORTHWEST CORNER OF PROPOSED THISTLE UNIT #55H PAD, THEN FROM THE NORTHEAST CORNER OF #55H PAD FOLLOW FLAGS EAST-SOUTHEAST 2038' TO THE NORTHWEST CORNER OF PROPOSED PAD FOR THIS LOCATION.

SURVEY NO. 2110

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341

CARLSBAD, NEW MEXICO

SECTION 22, TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M.  
LEA COUNTY, STATE OF NEW MEXICO  
**AERIAL PHOTO**



NOT TO SCALE  
AERIAL PHOTO:  
GOOGLE EARTH  
MARCH 2012

DEVON ENERGY PRODUCTION COMPANY, L.P.

**THISTLE UNIT #57H**

LOCATED 150 FT. FROM THE SOUTH LINE  
AND 2150 FT. FROM THE EAST LINE OF  
SECTION 22, TOWNSHIP 23 SOUTH,  
RANGE 33 EAST, N.M.P.M.  
LEA COUNTY, STATE OF NEW MEXICO

JULY 31, 2013

SURVEY NO. 2110

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO



# Devon Energy

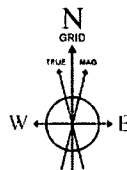
Location: Lea County, NM  
Field: (Thistle) Sec 22, T23S, R33E  
Facility: Thistle Unit No.56H & No.57H & No.58H

Slot: No.57H SHL  
Well: No.57H  
Wellbore: No.57H PWB

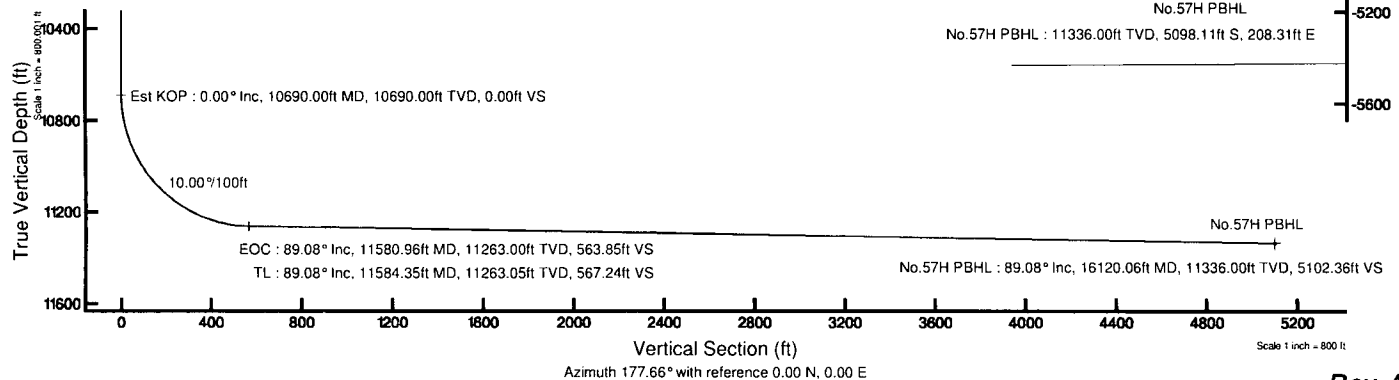


| Design Comment | MD (ft)  | Inc (°) | Az (°)  | TVD (ft) | Local N (ft) | Local E (ft) | DLS (°/100ft) | VS (ft) |
|----------------|----------|---------|---------|----------|--------------|--------------|---------------|---------|
| Tie On         | 25.00    | 0.000   | 177.600 | 25.00    | 0.00         | 0.00         | 0.00          | 0.00    |
| Est KOP        | 10690.00 | 0.000   | 177.600 | 10690.00 | 0.00         | 0.00         | 0.00          | 0.00    |
| EOC            | 11580.96 | 89.078  | 177.600 | 11263.00 | -563.36      | 23.61        | 10.00         | 563.85  |
| TL             | 11584.35 | 89.079  | 177.668 | 11263.05 | -566.74      | 23.75        | 2.00          | 567.24  |
| No.57H PBHL    | 16120.06 | 89.079  | 177.668 | 11336.00 | -5098.11     | 208.31       | 0.00          | 5102.36 |

|                                                               |                                                                     |
|---------------------------------------------------------------|---------------------------------------------------------------------|
| Plot reference wellpath is Rev-A.0                            |                                                                     |
| True vertical depths are referenced to Rig on No.57H SHL (KB) | Grid System: NAD83 / TM New Mexico SP, Eastern Zone (3001), US feet |
| Measured depths are referenced to Rig on No.57H SHL (KB)      | North Reference: Grid north                                         |
| Rig on No.57H SHL (KB) to Mean Sea Level: 3714.2 feet         | Scale: True distance                                                |
| Mean Sea Level to Mud line (At Slot: No.57H SHL): 0 feet      | Depths are in feet                                                  |
| Coordinates are in feet referenced to Slot                    | Created by: gentbry on 08/12/2013                                   |



BGGM (1945.0 to 2015.0) Dip: 60.18° Field: 48426.1 nT  
Magnetic North is 7.42 degrees East of True North (at 08/12/2013)  
Grid North is 0.41 degrees East of True North  
To correct azimuth from True to Grid subtract 0.41 degrees  
To correct azimuth from Magnetic to Grid add 7.01 degrees  
For example: if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 7.01 = 97.01



Rev-A.0



# Planned Wellpath Report

Rev-A.0  
Page 1 of 6



## REFERENCE WELLPATH IDENTIFICATION

|          |                                       |          |            |
|----------|---------------------------------------|----------|------------|
| Operator | Devon Energy                          | Slot     | No.57H SHL |
| Area     | Lea County, NM                        | Well     | No.57H     |
| Field    | (Thistle) Sec 22, T23S, R33E          | Wellbore | No.57H PWB |
| Facility | Thistle Unit No.56H & No.57H & No.58H |          |            |

## 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               | 0.999975                                               | Report Generated     | 08/12/2013 at 9:08:30 AM  |
| Convergence at slot | 0.41° East                                             | Database/Source file | WA Midland/No.57H_PWB.xml |

## WELLPATH LOCATION

|                       | Local coordinates |          | Grid coordinates |                 | Geographic coordinates |                 |
|-----------------------|-------------------|----------|------------------|-----------------|------------------------|-----------------|
|                       | North[ft]         | East[ft] | Easting[US ft]   | Northing[US ft] | Latitude               | Longitude       |
| Slot Location         | 0.25              | 49.96    | 780725.04        | 467726.93       | 32°17'00.526"N         | 103°33'31.331"W |
| Facility Reference Pt |                   |          | 780675.08        | 467726.68       | 32°17'00.527"N         | 103°33'31.913"W |
| Field Reference Pt    |                   |          | 780675.08        | 467726.68       | 32°17'00.527"N         | 103°33'31.913"W |

## WELLPATH DATUM

|                          |                        |                                                         |                   |
|--------------------------|------------------------|---------------------------------------------------------|-------------------|
| Calculation method       | Minimum curvature      | Rig on No.57H SHL (KB) to Facility Vertical Datum       | 3714.20ft         |
| Horizontal Reference Pt  | Slot                   | Rig on No.57H SHL (KB) to Mean Sea Level                | 3714.20ft         |
| Vertical Reference Pt    | Rig on No.57H SHL (KB) | Rig on No.57H SHL (KB) to Mud Line at Slot (No.57H SHL) | 3714.20ft         |
| MD Reference Pt          | Rig on No.57H SHL (KB) | Section Origin                                          | N 0.00, E 0.00 ft |
| Field Vertical Reference | Mean Sea Level         | Section Azimuth                                         | 177.66°           |



# Planned Wellpath Report

Rev-A.0  
Page 2 of 6



## REFERENCE WELLPATH IDENTIFICATION

|          |                                       |          |            |
|----------|---------------------------------------|----------|------------|
| Operator | Devon Energy                          | Slot     | No.57H SHL |
| Area     | Lea County, NM                        | Well     | No.57H     |
| Field    | (Thistle) Sec 22, T23S, R33E          | Wellbore | No.57H PWB |
| Facility | Thistle Unit No.56H & No.57H & No.58H |          |            |

## WELLPATH DATA (175 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           | 177.600     | 0.00     | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |          |
| 25.00    | 0.000           | 177.600     | 25.00    | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          | Tie On   |
| 125.00†  | 0.000           | 177.600     | 125.00   | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |          |
| 225.00†  | 0.000           | 177.600     | 225.00   | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |          |
| 325.00†  | 0.000           | 177.600     | 325.00   | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |          |
| 425.00†  | 0.000           | 177.600     | 425.00   | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |          |
| 525.00†  | 0.000           | 177.600     | 525.00   | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |          |
| 625.00†  | 0.000           | 177.600     | 625.00   | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |          |
| 725.00†  | 0.000           | 177.600     | 725.00   | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |          |
| 825.00†  | 0.000           | 177.600     | 825.00   | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |          |
| 925.00†  | 0.000           | 177.600     | 925.00   | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |          |
| 1025.00† | 0.000           | 177.600     | 1025.00  | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |          |
| 1125.00† | 0.000           | 177.600     | 1125.00  | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |          |
| 1225.00† | 0.000           | 177.600     | 1225.00  | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |          |
| 1290.00† | 0.000           | 177.600     | 1290.00  | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          | Rustler  |
| 1325.00† | 0.000           | 177.600     | 1325.00  | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |          |
| 1425.00† | 0.000           | 177.600     | 1425.00  | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |          |
| 1525.00† | 0.000           | 177.600     | 1525.00  | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |          |
| 1625.00† | 0.000           | 177.600     | 1625.00  | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |          |
| 1725.00† | 0.000           | 177.600     | 1725.00  | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |          |
| 1770.00† | 0.000           | 177.600     | 1770.00  | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          | Top Salt |
| 1825.00† | 0.000           | 177.600     | 1825.00  | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |          |
| 1925.00† | 0.000           | 177.600     | 1925.00  | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |          |
| 2025.00† | 0.000           | 177.600     | 2025.00  | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |          |
| 2125.00† | 0.000           | 177.600     | 2125.00  | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |          |
| 2225.00† | 0.000           | 177.600     | 2225.00  | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |          |
| 2325.00† | 0.000           | 177.600     | 2325.00  | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |          |
| 2425.00† | 0.000           | 177.600     | 2425.00  | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |          |
| 2525.00† | 0.000           | 177.600     | 2525.00  | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |          |
| 2625.00† | 0.000           | 177.600     | 2625.00  | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |          |
| 2725.00† | 0.000           | 177.600     | 2725.00  | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |          |
| 2825.00† | 0.000           | 177.600     | 2825.00  | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |          |
| 2925.00† | 0.000           | 177.600     | 2925.00  | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |          |
| 3025.00† | 0.000           | 177.600     | 3025.00  | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |          |
| 3125.00† | 0.000           | 177.600     | 3125.00  | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |          |
| 3225.00† | 0.000           | 177.600     | 3225.00  | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |          |
| 3325.00† | 0.000           | 177.600     | 3325.00  | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |          |
| 3425.00† | 0.000           | 177.600     | 3425.00  | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |          |
| 3525.00† | 0.000           | 177.600     | 3525.00  | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |          |
| 3625.00† | 0.000           | 177.600     | 3625.00  | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |          |
| 3725.00† | 0.000           | 177.600     | 3725.00  | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |          |
| 3825.00† | 0.000           | 177.600     | 3825.00  | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |          |
| 3925.00† | 0.000           | 177.600     | 3925.00  | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |          |
| 4025.00† | 0.000           | 177.600     | 4025.00  | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |          |
| 4125.00† | 0.000           | 177.600     | 4125.00  | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |          |



# Planned Wellpath Report

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## REFERENCE WELLPATH IDENTIFICATION

|          |                                       |          |            |
|----------|---------------------------------------|----------|------------|
| Operator | Devon Energy                          | Slot     | No.57H SHL |
| Area     | Lea County, NM                        | Well     | No.57H     |
| Field    | (Thistle) Sec 22, T23S, R33E          | Wellbore | No.57H PWB |
| Facility | Thistle Unit No.56H & No.57H & No.58H |          |            |

## WELLPATH DATA (175 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      |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------------|-----------------------|----------------|-----------------|------------------|---------------|
| 4225.00†   | 0.000              | 177.600        | 4225.00     | 0.00              | 0.00          | 0.00         | 780725.04            | 467726.93             | 32°17'00.526"N | 103°33'31.331"W | 0.00             |               |
| 4325.00†   | 0.000              | 177.600        | 4325.00     | 0.00              | 0.00          | 0.00         | 780725.04            | 467726.93             | 32°17'00.526"N | 103°33'31.331"W | 0.00             |               |
| 4425.00†   | 0.000              | 177.600        | 4425.00     | 0.00              | 0.00          | 0.00         | 780725.04            | 467726.93             | 32°17'00.526"N | 103°33'31.331"W | 0.00             |               |
| 4525.00†   | 0.000              | 177.600        | 4525.00     | 0.00              | 0.00          | 0.00         | 780725.04            | 467726.93             | 32°17'00.526"N | 103°33'31.331"W | 0.00             |               |
| 4625.00†   | 0.000              | 177.600        | 4625.00     | 0.00              | 0.00          | 0.00         | 780725.04            | 467726.93             | 32°17'00.526"N | 103°33'31.331"W | 0.00             |               |
| 4725.00†   | 0.000              | 177.600        | 4725.00     | 0.00              | 0.00          | 0.00         | 780725.04            | 467726.93             | 32°17'00.526"N | 103°33'31.331"W | 0.00             |               |
| 4825.00†   | 0.000              | 177.600        | 4825.00     | 0.00              | 0.00          | 0.00         | 780725.04            | 467726.93             | 32°17'00.526"N | 103°33'31.331"W | 0.00             |               |
| 4925.00†   | 0.000              | 177.600        | 4925.00     | 0.00              | 0.00          | 0.00         | 780725.04            | 467726.93             | 32°17'00.526"N | 103°33'31.331"W | 0.00             |               |
| 5025.00†   | 0.000              | 177.600        | 5025.00     | 0.00              | 0.00          | 0.00         | 780725.04            | 467726.93             | 32°17'00.526"N | 103°33'31.331"W | 0.00             |               |
| 5090.00†   | 0.000              | 177.600        | 5090.00     | 0.00              | 0.00          | 0.00         | 780725.04            | 467726.93             | 32°17'00.526"N | 103°33'31.331"W | 0.00             | Base Salt     |
| 5125.00†   | 0.000              | 177.600        | 5125.00     | 0.00              | 0.00          | 0.00         | 780725.04            | 467726.93             | 32°17'00.526"N | 103°33'31.331"W | 0.00             |               |
| 5190.00†   | 0.000              | 177.600        | 5190.00     | 0.00              | 0.00          | 0.00         | 780725.04            | 467726.93             | 32°17'00.526"N | 103°33'31.331"W | 0.00             | Delaware      |
| 5225.00†   | 0.000              | 177.600        | 5225.00     | 0.00              | 0.00          | 0.00         | 780725.04            | 467726.93             | 32°17'00.526"N | 103°33'31.331"W | 0.00             |               |
| 5325.00†   | 0.000              | 177.600        | 5325.00     | 0.00              | 0.00          | 0.00         | 780725.04            | 467726.93             | 32°17'00.526"N | 103°33'31.331"W | 0.00             |               |
| 5425.00†   | 0.000              | 177.600        | 5425.00     | 0.00              | 0.00          | 0.00         | 780725.04            | 467726.93             | 32°17'00.526"N | 103°33'31.331"W | 0.00             |               |
| 5525.00†   | 0.000              | 177.600        | 5525.00     | 0.00              | 0.00          | 0.00         | 780725.04            | 467726.93             | 32°17'00.526"N | 103°33'31.331"W | 0.00             |               |
| 5625.00†   | 0.000              | 177.600        | 5625.00     | 0.00              | 0.00          | 0.00         | 780725.04            | 467726.93             | 32°17'00.526"N | 103°33'31.331"W | 0.00             |               |
| 5725.00†   | 0.000              | 177.600        | 5725.00     | 0.00              | 0.00          | 0.00         | 780725.04            | 467726.93             | 32°17'00.526"N | 103°33'31.331"W | 0.00             |               |
| 5825.00†   | 0.000              | 177.600        | 5825.00     | 0.00              | 0.00          | 0.00         | 780725.04            | 467726.93             | 32°17'00.526"N | 103°33'31.331"W | 0.00             |               |
| 5925.00†   | 0.000              | 177.600        | 5925.00     | 0.00              | 0.00          | 0.00         | 780725.04            | 467726.93             | 32°17'00.526"N | 103°33'31.331"W | 0.00             |               |
| 6025.00†   | 0.000              | 177.600        | 6025.00     | 0.00              | 0.00          | 0.00         | 780725.04            | 467726.93             | 32°17'00.526"N | 103°33'31.331"W | 0.00             |               |
| 6060.00†   | 0.000              | 177.600        | 6060.00     | 0.00              | 0.00          | 0.00         | 780725.04            | 467726.93             | 32°17'00.526"N | 103°33'31.331"W | 0.00             | Cherry Canyon |
| 6125.00†   | 0.000              | 177.600        | 6125.00     | 0.00              | 0.00          | 0.00         | 780725.04            | 467726.93             | 32°17'00.526"N | 103°33'31.331"W | 0.00             |               |
| 6225.00†   | 0.000              | 177.600        | 6225.00     | 0.00              | 0.00          | 0.00         | 780725.04            | 467726.93             | 32°17'00.526"N | 103°33'31.331"W | 0.00             |               |
| 6325.00†   | 0.000              | 177.600        | 6325.00     | 0.00              | 0.00          | 0.00         | 780725.04            | 467726.93             | 32°17'00.526"N | 103°33'31.331"W | 0.00             |               |
| 6425.00†   | 0.000              | 177.600        | 6425.00     | 0.00              | 0.00          | 0.00         | 780725.04            | 467726.93             | 32°17'00.526"N | 103°33'31.331"W | 0.00             |               |
| 6525.00†   | 0.000              | 177.600        | 6525.00     | 0.00              | 0.00          | 0.00         | 780725.04            | 467726.93             | 32°17'00.526"N | 103°33'31.331"W | 0.00             |               |
| 6625.00†   | 0.000              | 177.600        | 6625.00     | 0.00              | 0.00          | 0.00         | 780725.04            | 467726.93             | 32°17'00.526"N | 103°33'31.331"W | 0.00             |               |
| 6725.00†   | 0.000              | 177.600        | 6725.00     | 0.00              | 0.00          | 0.00         | 780725.04            | 467726.93             | 32°17'00.526"N | 103°33'31.331"W | 0.00             |               |
| 6825.00†   | 0.000              | 177.600        | 6825.00     | 0.00              | 0.00          | 0.00         | 780725.04            | 467726.93             | 32°17'00.526"N | 103°33'31.331"W | 0.00             |               |
| 6925.00†   | 0.000              | 177.600        | 6925.00     | 0.00              | 0.00          | 0.00         | 780725.04            | 467726.93             | 32°17'00.526"N | 103°33'31.331"W | 0.00             |               |
| 7025.00†   | 0.000              | 177.600        | 7025.00     | 0.00              | 0.00          | 0.00         | 780725.04            | 467726.93             | 32°17'00.526"N | 103°33'31.331"W | 0.00             |               |
| 7125.00†   | 0.000              | 177.600        | 7125.00     | 0.00              | 0.00          | 0.00         | 780725.04            | 467726.93             | 32°17'00.526"N | 103°33'31.331"W | 0.00             |               |
| 7225.00†   | 0.000              | 177.600        | 7225.00     | 0.00              | 0.00          | 0.00         | 780725.04            | 467726.93             | 32°17'00.526"N | 103°33'31.331"W | 0.00             |               |
| 7325.00†   | 0.000              | 177.600        | 7325.00     | 0.00              | 0.00          | 0.00         | 780725.04            | 467726.93             | 32°17'00.526"N | 103°33'31.331"W | 0.00             |               |
| 7425.00†   | 0.000              | 177.600        | 7425.00     | 0.00              | 0.00          | 0.00         | 780725.04            | 467726.93             | 32°17'00.526"N | 103°33'31.331"W | 0.00             |               |
| 7525.00†   | 0.000              | 177.600        | 7525.00     | 0.00              | 0.00          | 0.00         | 780725.04            | 467726.93             | 32°17'00.526"N | 103°33'31.331"W | 0.00             |               |
| 7625.00†   | 0.000              | 177.600        | 7625.00     | 0.00              | 0.00          | 0.00         | 780725.04            | 467726.93             | 32°17'00.526"N | 103°33'31.331"W | 0.00             |               |
| 7640.00†   | 0.000              | 177.600        | 7640.00     | 0.00              | 0.00          | 0.00         | 780725.04            | 467726.93             | 32°17'00.526"N | 103°33'31.331"W | 0.00             | Brushy Canyon |
| 7725.00†   | 0.000              | 177.600        | 7725.00     | 0.00              | 0.00          | 0.00         | 780725.04            | 467726.93             | 32°17'00.526"N | 103°33'31.331"W | 0.00             |               |
| 7825.00†   | 0.000              | 177.600        | 7825.00     | 0.00              | 0.00          | 0.00         | 780725.04            | 467726.93             | 32°17'00.526"N | 103°33'31.331"W | 0.00             |               |
| 7925.00†   | 0.000              | 177.600        | 7925.00     | 0.00              | 0.00          | 0.00         | 780725.04            | 467726.93             | 32°17'00.526"N | 103°33'31.331"W | 0.00             |               |
| 8025.00†   | 0.000              | 177.600        | 8025.00     | 0.00              | 0.00          | 0.00         | 780725.04            | 467726.93             | 32°17'00.526"N | 103°33'31.331"W | 0.00             |               |
| 8125.00†   | 0.000              | 177.600        | 8125.00     | 0.00              | 0.00          | 0.00         | 780725.04            | 467726.93             | 32°17'00.526"N | 103°33'31.331"W | 0.00             |               |
| 8225.00†   | 0.000              | 177.600        | 8225.00     | 0.00              | 0.00          | 0.00         | 780725.04            | 467726.93             | 32°17'00.526"N | 103°33'31.331"W | 0.00             |               |



# Planned Wellpath Report

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## REFERENCE WELLPATH IDENTIFICATION

|          |                                       |          |            |
|----------|---------------------------------------|----------|------------|
| Operator | Devon Energy                          | Slot     | No.57H SHL |
| Area     | Lea County, NM                        | Well     | No.57H     |
| Field    | (Thistle) Sec 22, T23S, R33E          | Wellbore | No.57H PWB |
| Facility | Thistle Unit No.56H & No.57H & No.58H |          |            |

## WELLPATH DATA (175 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             |
|-----------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|----------------|-----------------|---------------|----------------------|
| 8325.00†  | 0.000           | 177.600     | 8325.00  | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |                      |
| 8425.00†  | 0.000           | 177.600     | 8425.00  | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |                      |
| 8525.00†  | 0.000           | 177.600     | 8525.00  | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |                      |
| 8625.00†  | 0.000           | 177.600     | 8625.00  | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |                      |
| 8725.00†  | 0.000           | 177.600     | 8725.00  | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |                      |
| 8825.00†  | 0.000           | 177.600     | 8825.00  | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |                      |
| 8925.00†  | 0.000           | 177.600     | 8925.00  | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |                      |
| 9025.00†  | 0.000           | 177.600     | 9025.00  | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |                      |
| 9070.00†  | 0.000           | 177.600     | 9070.00  | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          | Bone Spring Lime     |
| 9125.00†  | 0.000           | 177.600     | 9125.00  | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |                      |
| 9225.00†  | 0.000           | 177.600     | 9225.00  | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |                      |
| 9325.00†  | 0.000           | 177.600     | 9325.00  | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |                      |
| 9425.00†  | 0.000           | 177.600     | 9425.00  | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |                      |
| 9525.00†  | 0.000           | 177.600     | 9525.00  | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |                      |
| 9625.00†  | 0.000           | 177.600     | 9625.00  | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |                      |
| 9725.00†  | 0.000           | 177.600     | 9725.00  | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |                      |
| 9825.00†  | 0.000           | 177.600     | 9825.00  | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |                      |
| 9925.00†  | 0.000           | 177.600     | 9925.00  | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |                      |
| 10025.00† | 0.000           | 177.600     | 10025.00 | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |                      |
| 10065.00† | 0.000           | 177.600     | 10065.00 | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          | 1st Bone Spring Sand |
| 10125.00† | 0.000           | 177.600     | 10125.00 | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |                      |
| 10225.00† | 0.000           | 177.600     | 10225.00 | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |                      |
| 10325.00† | 0.000           | 177.600     | 10325.00 | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |                      |
| 10425.00† | 0.000           | 177.600     | 10425.00 | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |                      |
| 10525.00† | 0.000           | 177.600     | 10525.00 | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |                      |
| 10625.00† | 0.000           | 177.600     | 10625.00 | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          |                      |
| 10690.00  | 0.000           | 177.600     | 10690.00 | 0.00           | 0.00       | 0.00      | 780725.04         | 467726.93          | 32°17'00.526"N | 103°33'31.331"W | 0.00          | Est KOP              |
| 10725.00† | 3.499           | 177.600     | 10724.98 | 1.07           | -1.07      | 0.04      | 780725.08         | 467725.86          | 32°17'00.515"N | 103°33'31.331"W | 10.00         |                      |
| 10770.26† | 8.025           | 177.600     | 10770.00 | 5.61           | -5.61      | 0.23      | 780725.27         | 467721.32          | 32°17'00.470"N | 103°33'31.329"W | 10.00         | 2nd Bone Spring Sand |
| 10825.00† | 13.497          | 177.600     | 10823.75 | 15.83          | -15.81     | 0.66      | 780725.70         | 467711.12          | 32°17'00.369"N | 103°33'31.325"W | 10.00         |                      |
| 10925.00† | 23.495          | 177.600     | 10918.47 | 47.51          | -47.47     | 1.99      | 780727.03         | 467679.46          | 32°17'00.056"N | 103°33'31.312"W | 10.00         |                      |
| 11025.00† | 33.493          | 177.600     | 11006.24 | 95.16          | -95.07     | 3.98      | 780729.02         | 467631.86          | 32°16'59.585"N | 103°33'31.293"W | 10.00         |                      |
| 11125.00† | 43.491          | 177.600     | 11084.41 | 157.32         | -157.18    | 6.59      | 780731.63         | 467569.75          | 32°16'58.970"N | 103°33'31.268"W | 10.00         |                      |
| 11225.00† | 53.489          | 177.600     | 11150.60 | 232.11         | -231.91    | 9.72      | 780734.76         | 467495.03          | 32°16'58.230"N | 103°33'31.238"W | 10.00         |                      |
| 11325.00† | 63.487          | 177.600     | 11202.81 | 317.25         | -316.98    | 13.29     | 780738.32         | 467409.96          | 32°16'57.388"N | 103°33'31.203"W | 10.00         |                      |
| 11425.00† | 73.485          | 177.600     | 11239.43 | 410.17         | -409.81    | 17.18     | 780742.22         | 467317.13          | 32°16'56.469"N | 103°33'31.166"W | 10.00         |                      |
| 11525.00† | 83.483          | 177.600     | 11259.37 | 508.03         | -507.59    | 21.27     | 780746.31         | 467219.36          | 32°16'55.502"N | 103°33'31.126"W | 10.00         |                      |
| 11580.96  | 89.078          | 177.600     | 11263.00 | 563.85         | -563.36    | 23.61     | 780748.65         | 467163.59          | 32°16'54.950"N | 103°33'31.104"W | 10.00         | EOC                  |
| 11584.35  | 89.079          | 177.668     | 11263.05 | 567.24         | -566.74    | 23.75     | 780748.79         | 467160.20          | 32°16'54.916"N | 103°33'31.102"W | 2.00          | TL                   |
| 11625.00† | 89.079          | 177.668     | 11263.71 | 607.89         | -607.35    | 25.41     | 780750.44         | 467119.59          | 32°16'54.514"N | 103°33'31.086"W | 0.00          |                      |
| 11725.00† | 89.079          | 177.668     | 11265.32 | 707.87         | -707.26    | 29.47     | 780754.51         | 467019.69          | 32°16'53.525"N | 103°33'31.047"W | 0.00          |                      |
| 11825.00† | 89.079          | 177.668     | 11266.92 | 807.86         | -807.16    | 33.54     | 780758.58         | 466919.79          | 32°16'52.537"N | 103°33'31.008"W | 0.00          |                      |
| 11925.00† | 89.079          | 177.668     | 11268.53 | 907.85         | -907.07    | 37.61     | 780762.65         | 466819.89          | 32°16'51.548"N | 103°33'30.969"W | 0.00          |                      |
| 12025.00† | 89.079          | 177.668     | 11270.14 | 1007.83        | -1006.97   | 41.68     | 780766.72         | 466719.99          | 32°16'50.559"N | 103°33'30.930"W | 0.00          |                      |
| 12125.00† | 89.079          | 177.668     | 11271.75 | 1107.82        | -1106.88   | 45.75     | 780770.79         | 466620.08          | 32°16'49.570"N | 103°33'30.891"W | 0.00          |                      |



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## REFERENCE WELLPATH IDENTIFICATION

|          |                                       |          |            |
|----------|---------------------------------------|----------|------------|
| Operator | Devon Energy                          | Slot     | No.57H SHL |
| Area     | Lea County, NM                        | Well     | No.57H     |
| Field    | (Thistle) Sec 22, T23S, R33E          | Wellbore | No.57H PWB |
| Facility | Thistle Unit No.56H & No.57H & No.58H |          |            |

## WELLPATH DATA (175 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    |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------------|-----------------------|----------------|-----------------|------------------|-------------|
| 12225.00†  | 89.079             | 177.668        | 11273.36    | 1207.81           | -1206.78      | 49.82        | 780774.86            | 466520.18             | 32°16'48.581"N | 103°33'30.852"W | 0.00             |             |
| 12325.00†  | 89.079             | 177.668        | 11274.97    | 1307.80           | -1306.68      | 53.89        | 780778.93            | 466420.28             | 32°16'47.592"N | 103°33'30.813"W | 0.00             |             |
| 12425.00†  | 89.079             | 177.668        | 11276.57    | 1407.78           | -1406.59      | 57.96        | 780783.00            | 466320.38             | 32°16'46.604"N | 103°33'30.774"W | 0.00             |             |
| 12525.00†  | 89.079             | 177.668        | 11278.18    | 1507.77           | -1506.49      | 62.03        | 780787.06            | 466220.48             | 32°16'45.615"N | 103°33'30.735"W | 0.00             |             |
| 12625.00†  | 89.079             | 177.668        | 11279.79    | 1607.76           | -1606.40      | 66.09        | 780791.13            | 466120.58             | 32°16'44.626"N | 103°33'30.697"W | 0.00             |             |
| 12725.00†  | 89.079             | 177.668        | 11281.40    | 1707.74           | -1706.30      | 70.16        | 780795.20            | 466020.67             | 32°16'43.637"N | 103°33'30.658"W | 0.00             |             |
| 12825.00†  | 89.079             | 177.668        | 11283.01    | 1807.73           | -1806.21      | 74.23        | 780799.27            | 465920.77             | 32°16'42.648"N | 103°33'30.619"W | 0.00             |             |
| 12925.00†  | 89.079             | 177.668        | 11284.62    | 1907.72           | -1906.11      | 78.30        | 780803.34            | 465820.87             | 32°16'41.660"N | 103°33'30.580"W | 0.00             |             |
| 13025.00†  | 89.079             | 177.668        | 11286.22    | 2007.70           | -2006.01      | 82.37        | 780807.41            | 465720.97             | 32°16'40.671"N | 103°33'30.541"W | 0.00             |             |
| 13125.00†  | 89.079             | 177.668        | 11287.83    | 2107.69           | -2105.92      | 86.44        | 780811.48            | 465621.07             | 32°16'39.682"N | 103°33'30.502"W | 0.00             |             |
| 13225.00†  | 89.079             | 177.668        | 11289.44    | 2207.68           | -2205.82      | 90.51        | 780815.55            | 465521.17             | 32°16'38.693"N | 103°33'30.463"W | 0.00             |             |
| 13325.00†  | 89.079             | 177.668        | 11291.05    | 2307.67           | -2305.73      | 94.58        | 780819.61            | 465421.27             | 32°16'37.704"N | 103°33'30.424"W | 0.00             |             |
| 13425.00†  | 89.079             | 177.668        | 11292.66    | 2407.65           | -2405.63      | 98.65        | 780823.68            | 465321.36             | 32°16'36.715"N | 103°33'30.385"W | 0.00             |             |
| 13525.00†  | 89.079             | 177.668        | 11294.27    | 2507.64           | -2505.54      | 102.71       | 780827.75            | 465221.46             | 32°16'35.727"N | 103°33'30.346"W | 0.00             |             |
| 13625.00†  | 89.079             | 177.668        | 11295.87    | 2607.63           | -2605.44      | 106.78       | 780831.82            | 465121.56             | 32°16'34.738"N | 103°33'30.307"W | 0.00             |             |
| 13725.00†  | 89.079             | 177.668        | 11297.48    | 2707.61           | -2705.34      | 110.85       | 780835.89            | 465021.66             | 32°16'33.749"N | 103°33'30.268"W | 0.00             |             |
| 13825.00†  | 89.079             | 177.668        | 11299.09    | 2807.60           | -2805.25      | 114.92       | 780839.96            | 464921.76             | 32°16'32.760"N | 103°33'30.229"W | 0.00             |             |
| 13925.00†  | 89.079             | 177.668        | 11300.70    | 2907.59           | -2905.15      | 118.99       | 780844.03            | 464821.86             | 32°16'31.771"N | 103°33'30.190"W | 0.00             |             |
| 14025.00†  | 89.079             | 177.668        | 11302.31    | 3007.58           | -3005.06      | 123.06       | 780848.10            | 464721.96             | 32°16'30.782"N | 103°33'30.151"W | 0.00             |             |
| 14125.00†  | 89.079             | 177.668        | 11303.91    | 3107.56           | -3104.96      | 127.13       | 780852.16            | 464622.05             | 32°16'29.794"N | 103°33'30.112"W | 0.00             |             |
| 14225.00†  | 89.079             | 177.668        | 11305.52    | 3207.55           | -3204.87      | 131.20       | 780856.23            | 464522.15             | 32°16'28.805"N | 103°33'30.073"W | 0.00             |             |
| 14325.00†  | 89.079             | 177.668        | 11307.13    | 3307.54           | -3304.77      | 135.27       | 780860.30            | 464422.25             | 32°16'27.816"N | 103°33'30.034"W | 0.00             |             |
| 14425.00†  | 89.079             | 177.668        | 11308.74    | 3407.52           | -3404.67      | 139.34       | 780864.37            | 464322.35             | 32°16'26.827"N | 103°33'29.995"W | 0.00             |             |
| 14525.00†  | 89.079             | 177.668        | 11310.35    | 3507.51           | -3504.58      | 143.40       | 780868.44            | 464222.45             | 32°16'25.838"N | 103°33'29.956"W | 0.00             |             |
| 14625.00†  | 89.079             | 177.668        | 11311.96    | 3607.50           | -3604.48      | 147.47       | 780872.51            | 464122.55             | 32°16'24.850"N | 103°33'29.917"W | 0.00             |             |
| 14725.00†  | 89.079             | 177.668        | 11313.56    | 3707.48           | -3704.39      | 151.54       | 780876.58            | 464022.64             | 32°16'23.861"N | 103°33'29.878"W | 0.00             |             |
| 14825.00†  | 89.079             | 177.668        | 11315.17    | 3807.47           | -3804.29      | 155.61       | 780880.65            | 463922.74             | 32°16'22.872"N | 103°33'29.839"W | 0.00             |             |
| 14925.00†  | 89.079             | 177.668        | 11316.78    | 3907.46           | -3904.19      | 159.68       | 780884.72            | 463822.84             | 32°16'21.883"N | 103°33'29.800"W | 0.00             |             |
| 15025.00†  | 89.079             | 177.668        | 11318.39    | 4007.45           | -4004.10      | 163.75       | 780888.78            | 463722.94             | 32°16'20.894"N | 103°33'29.761"W | 0.00             |             |
| 15125.00†  | 89.079             | 177.668        | 11320.00    | 4107.43           | -4104.00      | 167.82       | 780892.85            | 463623.04             | 32°16'19.905"N | 103°33'29.722"W | 0.00             |             |
| 15225.00†  | 89.079             | 177.668        | 11321.61    | 4207.42           | -4203.91      | 171.89       | 780896.92            | 463523.14             | 32°16'18.917"N | 103°33'29.683"W | 0.00             |             |
| 15325.00†  | 89.079             | 177.668        | 11323.21    | 4307.41           | -4303.81      | 175.96       | 780900.99            | 463423.24             | 32°16'17.928"N | 103°33'29.644"W | 0.00             |             |
| 15425.00†  | 89.079             | 177.668        | 11324.82    | 4407.39           | -4403.72      | 180.02       | 780905.06            | 463323.33             | 32°16'16.939"N | 103°33'29.605"W | 0.00             |             |
| 15525.00†  | 89.079             | 177.668        | 11326.43    | 4507.38           | -4503.62      | 184.09       | 780909.13            | 463223.43             | 32°16'15.950"N | 103°33'29.566"W | 0.00             |             |
| 15625.00†  | 89.079             | 177.668        | 11328.04    | 4607.37           | -4603.52      | 188.16       | 780913.20            | 463123.53             | 32°16'14.961"N | 103°33'29.527"W | 0.00             |             |
| 15725.00†  | 89.079             | 177.668        | 11329.65    | 4707.36           | -4703.43      | 192.23       | 780917.27            | 463023.63             | 32°16'13.972"N | 103°33'29.488"W | 0.00             |             |
| 15825.00†  | 89.079             | 177.668        | 11331.25    | 4807.34           | -4803.33      | 196.30       | 780921.33            | 462923.73             | 32°16'12.984"N | 103°33'29.449"W | 0.00             |             |
| 15925.00†  | 89.079             | 177.668        | 11332.86    | 4907.33           | -4903.24      | 200.37       | 780925.40            | 462823.83             | 32°16'11.995"N | 103°33'29.410"W | 0.00             |             |
| 16025.00†  | 89.079             | 177.668        | 11334.47    | 5007.32           | -5003.14      | 204.44       | 780929.47            | 462723.92             | 32°16'11.006"N | 103°33'29.371"W | 0.00             |             |
| 16120.06   | 89.079             | 177.668        | 11336.00†   | 5102.36           | -5098.11      | 208.31       | 780933.34            | 462628.96             | 32°16'10.066"N | 103°33'29.334"W | 0.00             | No.57H PBHL |



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## REFERENCE WELLPATH IDENTIFICATION

|          |                                       |          |            |
|----------|---------------------------------------|----------|------------|
| Operator | Devon Energy                          | Slot     | No.57H SHL |
| Area     | Lea County, NM                        | Well     | No.57H     |
| Field    | (Thistle) Sec 22, T23S, R33E          | Wellbore | No.57H PWB |
| Facility | Thistle Unit No.56H & No.57H & No.58H |          |            |

## 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.57H PBHL | 16120.06   | 11336.00    | -5098.11      | 208.31       | 780933.34            | 462628.96             | 32°16'10.066"N | 103°33'29.334"W | point |

## SURVEY PROGRAM - Ref Wellbore: No.57H PWB Ref Wellpath: Rev-A.0

| Start MD<br>[ft] | End MD<br>[ft] | Positional Uncertainty Model | Log Name/Comment | Wellbore   |
|------------------|----------------|------------------------------|------------------|------------|
| 25.00            | 16120.06       | NaviTrak (Standard)          |                  | No.57H PWB |