Submit 1 Copy To Appropriate District Office
District I – (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
811 S. First St., Artesia, NM 88210
District III – (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV – (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

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

Form C-103
Revised July 18, 2013

WELL API NO.
30-015-41311

5. Indicate Type of Lease
STATE ☒ FEE ☐

6. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name
Odie 4 State

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

8. Well Number
1H

2. Name of Operator
Devon Energy Production Company, LP 405-228-7203

9. OGRID Number
6137

3. Address of Operator
333 West. Sheridan Avenue
Oklahoma City, OK 73102-5015 405-228-7203

10. Pool name or Wildcat
Willow Lake; Bone Spring

4. Well Location
Unit Letter _M_ : _210_ feet from the __SOUTH__ line and _660_ feet from the __WEST__ line
Section 4 Township 25S Range 28E NMPM Eddy County

11. Elevation *(Show whether DR, RKB, RT, GR, etc.)*
2964

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

| NOTICE OF INTENTION TO: | | | | SUBSEQUENT REPORT OF: | | | |
|---|---|---|---|---|---|---|---|
| PERFORM REMEDIAL WORK | ☐ | PLUG AND ABANDON | ☐ | REMEDIAL WORK | ☐ | ALTERING CASING | ☐ |
| TEMPORARILY ABANDON | ☐ | CHANGE PLANS | ☐ | COMMENCE DRILLING OPNS. | ☐ | P AND A | ☐ |
| PULL OR ALTER CASING | ☐ | MULTIPLE COMPL | ☐ | CASING/CEMENT JOB | ☐ | | |
| DOWNHOLE COMMINGLE | ☐ | | | | | | |
| CLOSED-LOOP SYSTEM | ☐ | | | | | | |
| OTHER: Casing and Cement Change | ☒ | | | OTHER: | ☐ | | |

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Verbal approval given by Randy Dade*

Devon Energy Production Company, L.P. respectfully requests to alter the 13-3/8" surface casing to a depth of 200'. This is to ensure that surface is set above the salt section as evidenced in the offset wells recently drilled. The approved permit currently has surface set at 400'.

Devon Energy Production Company, L.P. also requests changing the 5-1/2", 17 lb/ft, HCP-110 as currently stated on the permit to 5-1/2", 17 lb/ft, P-110, BTC. Attached, please find an updated Well Plan with corrected cement volumes and the last updated directional plan.

RECEIVED
DEC 31 2013
NMOCD ARTESIA

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Trina C. Couch TITLE: Regulatory Associate DATE 12/30/2013

Type or print name: Trina C. Couch E-mail address: trina.couch@dvn.com PHONE: 405-228-7203

**For State Use Only**

APPROVED BY: R Dade TITLE Dist II Supervisor DATE 12/31/13

Conditions of Approval (if any):
Cannot produce well until back in compliance w/ Rule 5.9 / Financial Assurance

Odie 4 State 1H – APD DRILLING PLAN
SKS 4-19-2013
AAA 12-30-2013: Sundry to change surface from 400'(APD) to 200'

Casing Program:

| Hole Size | Hole Interval | OD Csg | Casing Interval | Weight | Collar | Grade | Collapse Design Factor | Burst Design Factor | Tension Design Factor |
|---|---|---|---|---|---|---|---|---|---|
| 17-1/2" | 0 - 200 | 13-3/8" | 0 - 200 | 48# | BTC | H-40 | 8.23 | 18.48 | 33.54 |
| 12-1/4" | 200 - 2400 | 9-5/8" | 0 - 2400 | 36# | LTC | J-55 | 1.62 | 2.82 | 5.24 |
| 8-3/4" | 0 - 12590 | 5-1/2" | 0 - 12613 | 17# | BTC | P-110 | 1.99 | 2.83 | 2.55 |

Mud Program:

| Depth | Mud Wt. | Visc. | Fluid Loss | Type System (Fluid) |
|---|---|---|---|---|
| 0 - 200 | 8.4 – 9.0 | 30 – 34 | N/C | FW |
| 200 - 2400 | 9.8 – 10.0 | 28 – 32 | N/C | Brine |
| 2400 - 12590 | 8.6 – 9.0 | 28 – 32 | N/C | FW |

Pressure Control Equipment:

The BOP system used to drill the intermediate hole will consist of a 13-5/8" Double Ram and Annular preventer. The BOP system will be tested as per BLM Onshore Oil and Gas Order 2. A 3M system will be installed and tested prior to drilling out the surface casing shoe.

The BOP system used to drill the production hole will consist of a 13-5/8" Double Ram and Annular preventer. The BOP system will be tested as per BLM Onshore Oil and Gas Order 2. A 3M system will be installed prior to drilling out the intermediate casing shoe.

The pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and annular preventer, additional BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at 5,000 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.

**Odie 4 State 1H**
**Cementing Program (cement volumes based on 100% excess Surface, 50% excess Intermediate and at least 25% excess Production.)**

| String | Number of sx | Weight lbs/gal | Water Volume g/sx | Yield cf/sx | Stage; Lead/Tail | Slurry Description |
|---|---|---|---|---|---|---|
| 13-3/8" Surface | 240 | 14.8 | 6.32 | 1.33 | Tail | Class C Cement + 63.5% Fresh Water |
| 9-5/8" Intermediate | 480 | 12.9 | 9.81 | 1.85 | Lead | (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake + 70.9 % Fresh Water |
| | 330 | 14.8 | 6.32 | 1.33 | Tail | Class C Cement + 0.125 lbs/sack Poly-E-Flake + 63.5% Fresh Water |
| 5-1/2" Production Casing | 430 | 11.9 | 12.89 | 2.26 | Lead | (50:50) Class H Cement: Poz (Fly Ash) + 10% BWOC Bentonite + 1 lb/sk of Kol-Seal + 0.3% BWOC HR-601 + 0.5lb/sk D-Air 5000 + 76.4% Fresh Water |
| | 330 | 12.5 | 10.86 | 1.96 | Lead | (65:35) Class H Cement: Poz (Fly Ash) + 6% BWOC Bentonite + 0.25% BWOC HR-601 + 0.125 lbs/sack Poly-E-Flake + 74.1 % Fresh Water |
| | 1440 | 14.5 | 5.38 | 1.22 | Tail | (50:50) Class H Cement: Poz (Fly Ash) + 1 lb/sk Sodium Chloride + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% bwoc HR-601 + 2% bwoc Bentonite + 58.8% Fresh Water |

TOC for All Strings:
Surface: 0
Intermediate: 0
Production: 1900 ft

**Notes:**

- Cement volumes Surface 100%, Intermediate 75% and Production based on at least 25% excess
- Actual cement volumes will be adjusted based on fluid caliper and caliper log data

Weatherford

# Drilling Services

# Proposal

devon

ODIE 4 STATE #1H

EDDY COUNTY, NM

WELL FILE: **PLAN 3**

DECEMBER 20, 2013

**Weatherford International, Ltd.**
P.O. Box 61028
Midland, TX 79711 USA
+1.432.561.8892 Main
+1.432.561.8895 Fax
www.weatherford.com

devon

# Odic 4 State #1H
## Eddy Co., New Mexico

**SECTION DETAILS**

| Sec | MD | Inc | Azi | TVD | +N/-S | +E/-W | DLeg | TFace | VSec | Target |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.00 | 0.00 | 0.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2 | 7481.05 | 0.00 | 0.16 | 7481.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 3 | 8384.46 | 90.34 | 0.16 | 8054.00 | 576.36 | 1.65 | 10.00 | 0.16 | 576.36 | |
| 4 | 12590.29 | 90.34 | 0.16 | 8029.00 | 4782.10 | 13.67 | 0.00 | 0.00 | 4782.12 | PBHL |

**WELL DETAILS**

| Name | +N/-S | +E/-W | Northing | Easting | Latitude | Longitude | Slot |
|---|---|---|---|---|---|---|---|
| Odic 4 State #1H | 0.00 | 0.00 | 419277.97 | 613867.31 | 32°09'08.835N | 104°05'56.302W | N/A |

**TARGET DETAILS**

| Name | TVD | +N/-S | +E/-W | Northing | Easting | Latitude | Longitude | Shape |
|---|---|---|---|---|---|---|---|---|
| PBHL | 8029.00 | 4782.10 | 13.67 | 424060.07 | 613880.98 | 32°09'56.159N | 104°05'56.022W | Rectangle (4284x50) |

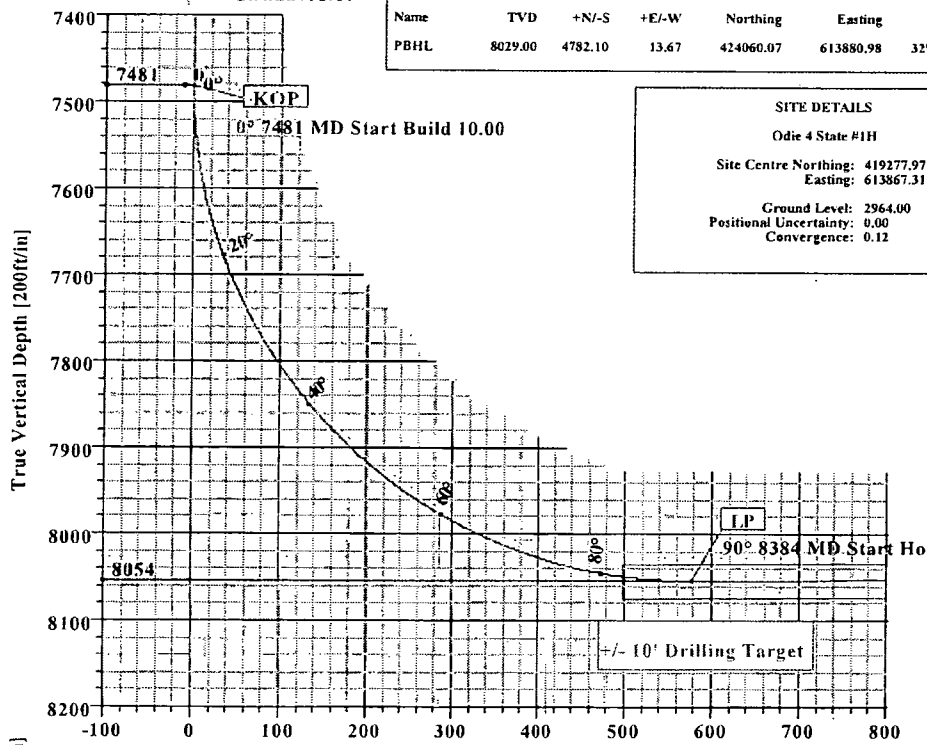
**SITE DETAILS**

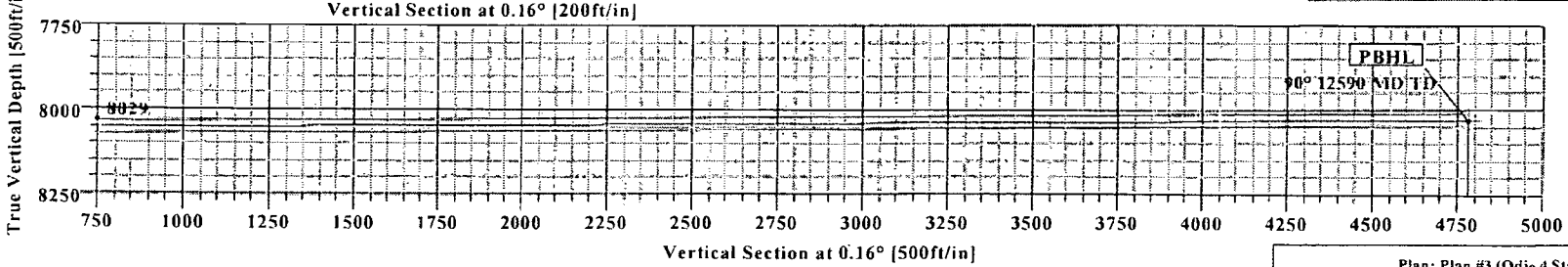
Odic 4 State #1H

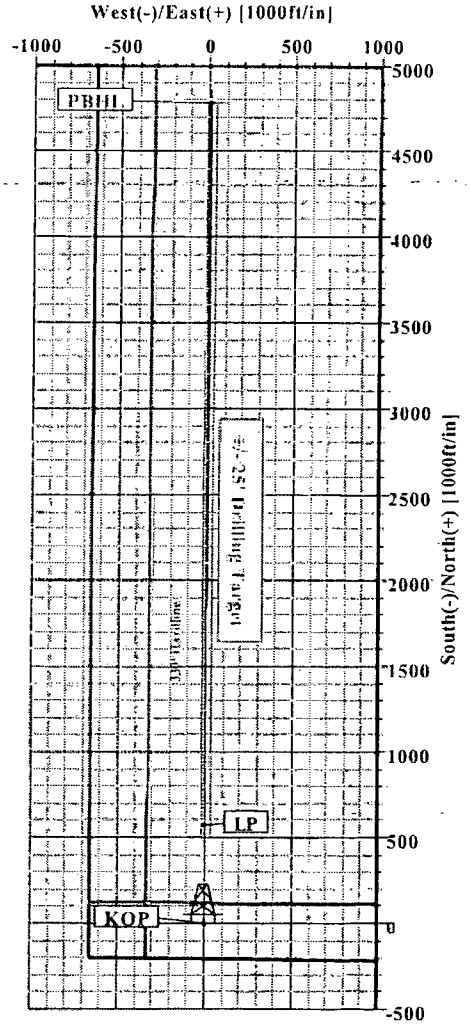
Site Centre Northing: 419277.97
Easting: 613867.31

Ground Level: 2964.00
Positional Uncertainty: 0.00
Convergence: 0.12

KB ELEV: 2989
GL ELEV: 2964




Weatherford

Plan: Plan #3 (Odic 4 State #1H/1)

Created By: Russell W. Joyner Date: 12/20/2013

devon

# Weatherford
## Wft Plan Report X Y's.

Weatherford

| | | | |
|---|---|---|---|
| **Company:** | Devon Energy | **Date:** 12/20/2013 **Time:** 11:47:59 | **Page:** 1 |
| **Field:** | Eddy Co., NM (NAD 83) | **Co-ordinate(NE) Reference:** | Well: Odie 4 State #1H, Grid North |
| **Site:** | Odie 4 State #1H | **Vertical (TVD) Reference:** | SITE 2989.0 |
| **Well:** | Odie 4 State #1H | **Section (VS) Reference:** | Well (0.00N,0.00E,0.16Azi) |
| **Wellpath:** | 1 | **Survey Calculation Method:** | Minimum Curvature **Db:** Sybase |

| | | | |
|---|---|---|---|
| **Plan:** | Plan #3 | **Date Composed:** | 4/19/2013 |
| | | **Version:** | 1 |
| **Principal:** | Yes | **Tied-to:** | From Surface |

**Site:** Odie 4 State #1H

| | | | | | |
|---|---|---|---|---|---|
| **Site Position:** | | **Northing:** | 419277.97 ft | **Latitude:** | 32 9 8.835 N |
| **From:** | Map | **Easting:** | 613867.31 ft | **Longitude:** | 104 5 56.302 W |
| **Position Uncertainty:** | 0.00 ft | | | **North Reference:** | Grid |
| **Ground Level:** | 2964.00 ft | | | **Grid Convergence:** | 0.12 deg |

**Well:** Odie 4 State #1H **Slot Name:**

| | | | | | | |
|---|---|---|---|---|---|---|
| **Well Position:** | +N/-S | 0.00 ft | **Northing:** | 419277.97 ft | **Latitude:** | 32 9 8.835 N |
| | +E/-W | 0.00 ft | **Easting:** | 613867.31 ft | **Longitude:** | 104 5 56.302 W |
| **Position Uncertainty:** | | 0.00 ft | | | | |

**Wellpath:** 1

| | | | | | |
|---|---|---|---|---|---|
| | | | | **Drilled From:** | Surface |
| | | | | **Tie-on Depth:** | 0.00 ft |
| **Current Datum:** | SITE | **Height** | 2989.00 ft | **Above System Datum:** | Mean Sea Level |
| **Magnetic Data:** | 12/15/2013 | | | **Declination:** | 7.52 deg |
| **Field Strength:** | 48291 nT | | | **Mag Dip Angle:** | 59.97 deg |

| **Vertical Section:** | **Depth From (TVD)** | **+N/-S** | **+E/-W** | **Direction** |
|---|---|---|---|---|
| | ft | ft | ft | deg |
| | 0.00 | 0.00 | 0.00 | 0.16 |

**Plan Section Information**

| MD ft | Incl deg | Azim deg | TVD ft | +N/-S ft | +E/-W ft | DLS deg/100ft | Build deg/100ft | Turn deg/100ft | TFO deg | Target |
|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 0.00 | 0.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 7481.05 | 0.00 | 0.16 | 7481.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 8384.46 | 90.34 | 0.16 | 8054.00 | 576.36 | 1.65 | 10.00 | 10.00 | 0.00 | 0.16 | |
| 12590.29 | 90.34 | 0.16 | 8029.00 | 4782.10 | 13.67 | 0.00 | 0.00 | 0.00 | 0.00 | PBHL |

**Survey**

| MD ft | Incl deg | Azim deg | TVD ft | N/S ft | E/W ft | VS ft | DLS deg/100ft | MapN ft | MapE ft | Comment |
|---|---|---|---|---|---|---|---|---|---|---|
| 7400.00 | 0.00 | 0.16 | 7400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 419277.97 | 613867.31 | |
| 7481.05 | 0.00 | 0.16 | 7481.05 | 0.00 | 0.00 | 0.00 | 0.00 | 419277.97 | 613867.31 | KOP |
| 7500.00 | 1.90 | 0.16 | 7500.00 | 0.31 | 0.00 | 0.31 | 10.00 | 419278.28 | 613867.31 | |
| 7600.00 | 11.90 | 0.16 | 7599.15 | 12.30 | 0.04 | 12.30 | 10.00 | 419290.27 | 613867.35 | |
| 7700.00 | 21.90 | 0.16 | 7694.71 | 41.33 | 0.12 | 41.33 | 10.00 | 419319.30 | 613867.43 | |
| 7800.00 | 31.90 | 0.16 | 7783.78 | 86.51 | 0.25 | 86.51 | 10.00 | 419364.48 | 613867.56 | |
| 7900.00 | 41.90 | 0.16 | 7863.65 | 146.46 | 0.42 | 146.47 | 10.00 | 419424.43 | 613867.73 | |
| 8000.00 | 51.90 | 0.16 | 7931.90 | 219.38 | 0.63 | 219.38 | 10.00 | 419497.35 | 613867.94 | |
| 8100.00 | 61.90 | 0.16 | 7986.45 | 303.04 | 0.87 | 303.04 | 10.00 | 419581.01 | 613868.18 | |
| 8200.00 | 71.90 | 0.16 | 8025.64 | 394.90 | 1.13 | 394.91 | 10.00 | 419672.87 | 613868.44 | |
| 8300.00 | 81.90 | 0.16 | 8048.28 | 492.18 | 1.41 | 492.18 | 10.00 | 419770.15 | 613868.72 | |
| 8384.46 | 90.34 | 0.16 | 8054.00 | 576.36 | 1.65 | 576.36 | 10.00 | 419854.33 | 613868.96 | LP |
| 8400.00 | 90.34 | 0.16 | 8053.91 | 591.91 | 1.69 | 591.91 | 0.00 | 419869.88 | 613869.00 | |
| 8500.00 | 90.34 | 0.16 | 8053.31 | 691.90 | 1.98 | 691.91 | 0.00 | 419969.87 | 613869.29 | |
| 8600.00 | 90.34 | 0.16 | 8052.72 | 791.90 | 2.26 | 791.90 | 0.00 | 420069.87 | 613869.57 | |
| 8700.00 | 90.34 | 0.16 | 8052.12 | 891.90 | 2.55 | 891.90 | 0.00 | 420169.87 | 613869.86 | |
| 8800.00 | 90.34 | 0.16 | 8051.53 | 991.90 | 2.84 | 991.90 | 0.00 | 420269.87 | 613870.15 | |
| 8900.00 | 90.34 | 0.16 | 8050.93 | 1091.89 | 3.12 | 1091.90 | 0.00 | 420369.86 | 613870.43 | |
| 9000.00 | 90.34 | 0.16 | 8050.34 | 1191.89 | 3.41 | 1191.90 | 0.00 | 420469.86 | 613870.72 | |
| 9100.00 | 90.34 | 0.16 | 8049.74 | 1291.89 | 3.69 | 1291.90 | 0.00 | 420569.86 | 613871.00 | |
| 9200.00 | 90.34 | 0.16 | 8049.15 | 1391.89 | 3.98 | 1391.89 | 0.00 | 420669.86 | 613871.29 | |
| 9300.00 | 90.34 | 0.16 | 8048.56 | 1491.89 | 4.26 | 1491.89 | 0.00 | 420769.86 | 613871.57 | |
| 9400.00 | 90.34 | 0.16 | 8047.96 | 1591.88 | 4.55 | 1591.89 | 0.00 | 420869.85 | 613871.86 | |

devon

# Weatherford
## Wft Plan Report X Y's.

Weatherford

| | | | |
|---|---|---|---|
| **Company:** | Devon Energy | **Date:** 12/20/2013 **Time:** 11:47:59 | **Page:** 2 |
| **Field:** | Eddy Co., NM (NAD 83) | **Co-ordinate(NE) Reference:** | Well: Odie 4 State #1H, Grid North |
| **Site:** | Odie 4 State #1H | **Vertical (TVD) Reference:** | SITE 2989.0 |
| **Well:** | Odie 4 State #1H | **Section (VS) Reference:** | Well (0.00N,0.00E,0.16Azi) |
| **Wellpath:** | 1 | **Survey Calculation Method:** | Minimum Curvature **Db:** Sybase |

**Survey**

| MD ft | Incl deg | Azim deg | TVD ft | N/S ft | E/W ft | VS ft | DLS deg/100ft | MapN ft | MapE ft | Comment |
|---|---|---|---|---|---|---|---|---|---|---|
| 9500.00 | 90.34 | 0.16 | 8047.37 | 1691.88 | 4.84 | 1691.89 | 0.00 | 420969.85 | 613872.15 | |
| 9600.00 | 90.34 | 0.16 | 8046.77 | 1791.88 | 5.12 | 1791.89 | 0.00 | 421069.85 | 613872.43 | |
| 9700.00 | 90.34 | 0.16 | 8046.18 | 1891.88 | 5.41 | 1891.88 | 0.00 | 421169.85 | 613872.72 | |
| 9800.00 | 90.34 | 0.16 | 8045.58 | 1991.87 | 5.69 | 1991.88 | 0.00 | 421269.84 | 613873.00 | |
| 9900.00 | 90.34 | 0.16 | 8044.99 | 2091.87 | 5.98 | 2091.88 | 0.00 | 421369.84 | 613873.29 | |
| 10000.00 | 90.34 | 0.16 | 8044.40 | 2191.87 | 6.27 | 2191.88 | 0.00 | 421469.84 | 613873.58 | |
| 10100.00 | 90.34 | 0.16 | 8043.80 | 2291.87 | 6.55 | 2291.88 | 0.00 | 421569.84 | 613873.86 | |
| 10200.00 | 90.34 | 0.16 | 8043.21 | 2391.87 | 6.84 | 2391.88 | 0.00 | 421669.84 | 613874.15 | |
| 10300.00 | 90.34 | 0.16 | 8042.61 | 2491.86 | 7.12 | 2491.87 | 0.00 | 421769.83 | 613874.43 | |
| 10400.00 | 90.34 | 0.16 | 8042.02 | 2591.86 | 7.41 | 2591.87 | 0.00 | 421869.83 | 613874.72 | |
| 10500.00 | 90.34 | 0.16 | 8041.42 | 2691.86 | 7.69 | 2691.87 | 0.00 | 421969.83 | 613875.00 | |
| 10600.00 | 90.34 | 0.16 | 8040.83 | 2791.86 | 7.98 | 2791.87 | 0.00 | 422069.83 | 613875.29 | |
| 10700.00 | 90.34 | 0.16 | 8040.24 | 2891.86 | 8.27 | 2891.87 | 0.00 | 422169.83 | 613875.58 | |
| 10800.00 | 90.34 | 0.16 | 8039.64 | 2991.85 | 8.55 | 2991.87 | 0.00 | 422269.82 | 613875.86 | |
| 10900.00 | 90.34 | 0.16 | 8039.05 | 3091.85 | 8.84 | 3091.86 | 0.00 | 422369.82 | 613876.15 | |
| 11000.00 | 90.34 | 0.16 | 8038.45 | 3191.85 | 9.12 | 3191.86 | 0.00 | 422469.82 | 613876.43 | |
| 11100.00 | 90.34 | 0.16 | 8037.86 | 3291.85 | 9.41 | 3291.86 | 0.00 | 422569.82 | 613876.72 | |
| 11200.00 | 90.34 | 0.16 | 8037.26 | 3391.84 | 9.70 | 3391.86 | 0.00 | 422669.81 | 613877.01 | |
| 11300.00 | 90.34 | 0.16 | 8036.67 | 3491.84 | 9.98 | 3491.86 | 0.00 | 422769.81 | 613877.29 | |
| 11400.00 | 90.34 | 0.16 | 8036.07 | 3591.84 | 10.27 | 3591.85 | 0.00 | 422869.81 | 613877.58 | |
| 11500.00 | 90.34 | 0.16 | 8035.48 | 3691.84 | 10.55 | 3691.85 | 0.00 | 422969.81 | 613877.86 | |
| 11600.00 | 90.34 | 0.16 | 8034.89 | 3791.84 | 10.84 | 3791.85 | 0.00 | 423069.81 | 613878.15 | |
| 11700.00 | 90.34 | 0.16 | 8034.29 | 3891.83 | 11.13 | 3891.85 | 0.00 | 423169.80 | 613878.44 | |
| 11800.00 | 90.34 | 0.16 | 8033.70 | 3991.83 | 11.41 | 3991.85 | 0.00 | 423269.80 | 613878.72 | |
| 11900.00 | 90.34 | 0.16 | 8033.10 | 4091.83 | 11.70 | 4091.85 | 0.00 | 423369.80 | 613879.01 | |
| 12000.00 | 90.34 | 0.16 | 8032.51 | 4191.83 | 11.98 | 4191.84 | 0.00 | 423469.80 | 613879.29 | |
| 12100.00 | 90.34 | 0.16 | 8031.91 | 4291.82 | 12.27 | 4291.84 | 0.00 | 423569.79 | 613879.58 | |
| 12200.00 | 90.34 | 0.16 | 8031.32 | 4391.82 | 12.55 | 4391.84 | 0.00 | 423669.79 | 613879.86 | |
| 12300.00 | 90.34 | 0.16 | 8030.73 | 4491.82 | 12.84 | 4491.84 | 0.00 | 423769.79 | 613880.15 | |
| 12400.00 | 90.34 | 0.16 | 8030.13 | 4591.82 | 13.13 | 4591.84 | 0.00 | 423869.79 | 613880.44 | |
| 12500.00 | 90.34 | 0.16 | 8029.54 | 4691.82 | 13.41 | 4691.84 | 0.00 | 423969.79 | 613880.72 | |
| 12590.29 | 90.34 | 0.16 | 8029.00 | 4782.10 | 13.67 | 4782.12 | 0.00 | 424060.07 | 613880.98 | PBHL |

**Targets**

| Name | Description Dip. | Dir. | TVD ft | +N/-S ft | +E/-W ft | Map Northing ft | Map Easting ft | <---- Latitude ----> Deg | Min | Sec | <---- Longitude ----> Deg | Min | Sec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PBHL -Rectangle (4284x50) | | | 8029.00 | 4782.10 | 13.67 | 424060.07 | 613880.98 | 32 | 9 | 56.159 N | 104 | 5 | 56.022 W |

**Casing Points**

| MD | TVD | Diameter | Hole Size | Name |
|---|---|---|---|---|

**Formations**

| MD | TVD | Formations | Lithology | Dip Angle | Dip Direction |
|---|---|---|---|---|---|

devon

# Weatherford
## Wft Plan Report X Y's.

Weatherford

| | | | |
|---|---|---|---|
| **Company:** | Devon Energy | **Date:** 12/20/2013 **Time:** 11:47:59 | **Page:** 3 |
| **Field:** | Eddy Co., NM (NAD 83) | **Co-ordinate(NE) Reference:** | Well: Odie 4 State #1H, Grid North |
| **Site:** | Odie 4 State #1H | **Vertical (TVD) Reference:** | SITE 2989.0 |
| **Well:** | Odie 4 State #1H | **Section (VS) Reference:** | Well (0.00N,0.00E,0.16Azi) |
| **Wellpath:** | 1 | **Survey Calculation Method:** | Minimum Curvature **Db:** Sybase |

**Annotation**

| MD ft | TVD ft | |
|---|---|---|
| 7481.05 | 7481.05 | KOP |
| 8384.46 | 8054.00 | LP |
| 12590.28 | 8029.00 | PBHL |

Weatherford®

# Weatherford Drilling Services

GeoDec v5.03

| | |
|---|---|
| Report Date: | December 19, 2013 |
| Job Number: | |
| Customer: | Devon Energy |
| Well Name: | Odie 4 State #1H |
| API Number: | |
| Rig Name: | |
| Location: | Eddy Co., NM (NAD 83) |
| Block: | |
| Engineer: | RWJ |

| | |
|---|---|
| US State Plane 1983 | Geodetic Latitude / Longitude |
| System: New Mexico Eastern Zone | System: Latitude / Longitude |
| Projection: Transverse Mercator/Gauss Kruger | Projection: Geodetic Latitude and Longitude |
| Datum: North American Datum 1983 | Datum: North American Datum 1983 |
| Ellipsoid: GRS 1980 | Ellipsoid: GRS 1980 |
| North/South 419277.970 USFT | Latitude 32.1524566 DEG |
| East/West 613867.310 USFT | Longitude -104.0989689 DEG |
| Grid Convergence: .12° | |
| Total Correction: +7.49° | |

| | | |
|---|---|---|
| Geodetic Location WGS84 | Elevation = | 0.0 Meters |
| Latitude = | 32.15246° N | 32° 9 min 8.844 sec |
| Longitude = | 104.09897° W | 104° 5 min 56.288 sec |

| | | | |
|---|---|---|---|
| Magnetic Declination = | 7.61° | [True North Offset] | |
| Local Gravity = | .9988 g | CheckSum = | 6851 |
| Local Field Strength = | 48246 nT | Magnetic Vector X = | 23950 nT |
| Magnetic Dip = | 59.95° | Magnetic Vector Y = | 3201 nT |
| Magnetic Model = | bggm2013 | Magnetic Vector Z = | 41759 nT |
| Spud Date = | Feb 20, 2014 | Magnetic Vector H = | 24163 nT |

Signed:_____ Date:_____