

DISTRICT I  
1625 N French Dr., Hobbs, NM 88240  
Phone: (575) 793-6161 Fax: (575) 791-0720

DISTRICT II  
811 S First St., Artesia, NM 88210  
Phone: (575) 748-1281 Fax: (575) 748-9720

DISTRICT III  
1000 Rio Brazos Rd., Artesia, NM 87410  
Phone: (505) 334-6178 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, New Mexico 87505

Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
District Office  
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

|                                   |                                                              |                           |                                             |
|-----------------------------------|--------------------------------------------------------------|---------------------------|---------------------------------------------|
| API Number<br><b>30-015-70824</b> |                                                              | Pool Code<br><b>96641</b> | Pool Name<br><b>PADUCA; BONE SPRING (O)</b> |
| Property Code<br><b>300635</b>    | Property Name<br><b>COTTON DRAW UNIT</b>                     |                           | Well Number<br><b>165H</b>                  |
| OGRID No<br><b>6137</b>           | Operator Name<br><b>DEVON ENERGY PRODUCTION COMPANY, LP.</b> |                           | Elevation<br><b>3517.4'</b>                 |

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>2 B</b>   | <b>36</b> | <b>24 S</b> | <b>31 E</b> |         | <b>25</b>     | <b>NORTH</b>     | <b>1780</b>   | <b>EAST</b>    | <b>EDDY</b> |

Bottom Hole Location If Different From Surface

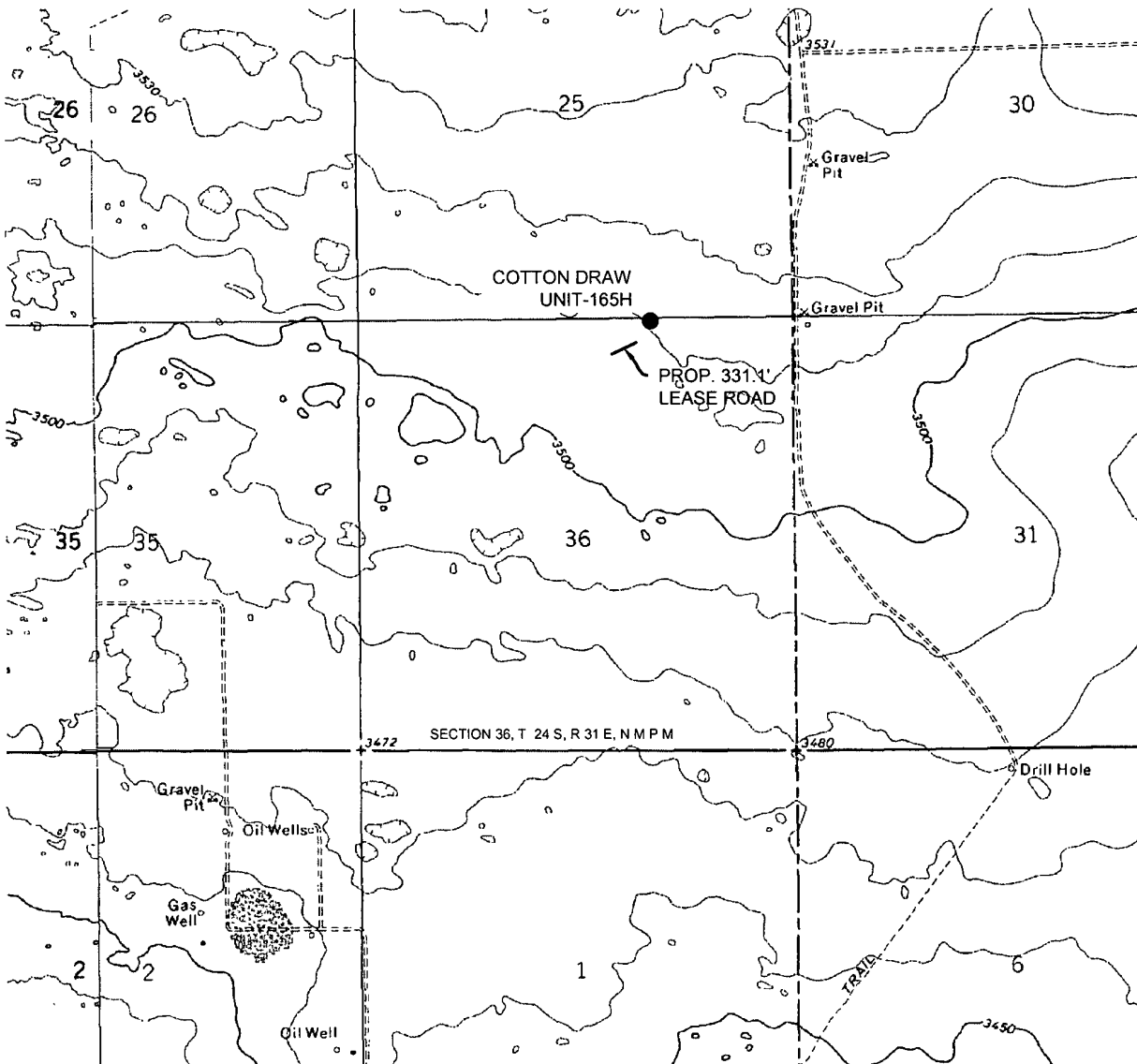
| UL or lot no | Section   | Township    | Range       | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County      |
|--------------|-----------|-------------|-------------|---------|---------------|------------------|---------------|----------------|-------------|
| <b>O</b>     | <b>36</b> | <b>24 S</b> | <b>31 E</b> |         | <b>330</b>    | <b>SOUTH</b>     | <b>1880</b>   | <b>EAST</b>    | <b>EDDY</b> |

| Dedicated Acres | Joint or Infill | Consolidated Code | Order No |
|-----------------|-----------------|-------------------|----------|
| <b>160</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 COR SEC 36<br>NMSP-E (NAD 83)<br>Y = 430119.9' N<br>X = 724890.1' E<br>LAT = N32° 10' 51.91"<br>LONG = W103° 44' 24.15" | COTTON DRAW UNIT<br>165H SHL<br>NMSP-E (NAD 83)<br>Y = 430115.8' N<br>X = 728391.5' E<br>LAT = N32° 10' 51.68"<br>LONG = W103° 43' 43.41" | NE COR SEC 36<br>NMSP-E (NAD 83)<br>Y = 430151.2' N<br>X = 730171.4' E<br>LAT = N32° 10' 51.93"<br>LONG = W103° 43' 22.69"                | <b>OPERATOR CERTIFICATION</b><br>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 voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.<br><br><i>Patti Riechers</i> 10/31/2012<br>Signature Date<br>Patti Riechers<br>Print Name<br>patti.riechers@dvn.com<br>E-mail Address |
|                                                                                                                            | <b>RECEIVED</b><br>NOV 02 2012<br>NMOCD ARTESIA                                                                                           | COTTON DRAW UNIT<br>165H BHL<br>NMSP-E (NAD 83)<br>Y = 425203.1' N<br>X = 728322.6' E<br>LAT = N32° 10' 03.07"<br>LONG = W103° 43' 44.53" |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

# LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

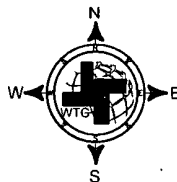
SECTION 36, T 24 S, R 31 E, N.M.P.M.

COUNTY: EDDY STATE NM

DESCRIPTION 25' FNL & 1780' FEL

OPERATOR: DEVON ENERGY

WELL NAME COTTON DRAW UNIT-165H



## DRIVING DIRECTIONS:

From the intersection of Buck Jackson Road and NM State Highway 128 Go southwesterly on Buck Jackson Road 4.8 miles to lease road left. Go 0.8 miles and take a right at the "Y". Go 0.3 miles to lease road left. Go 2.6 miles to the proposed road and the location is northeast 0.2 miles.

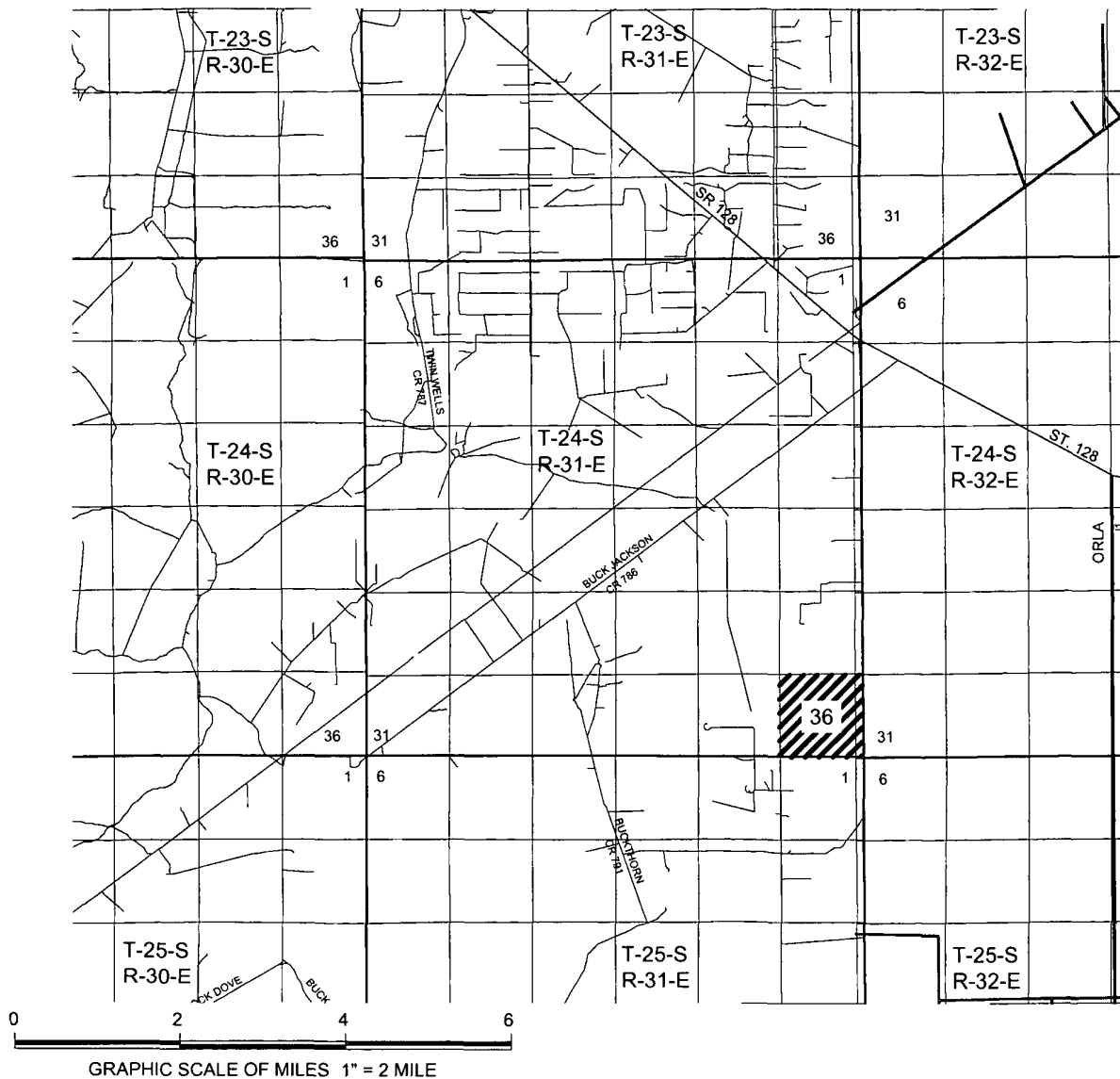


**WEST TEXAS CONSULTANTS, INC**  
ENGINEERS PLANNERS SURVEYORS  
405 S W 1st STREET  
ANDREWS, TEXAS 79714  
(432) 523-2181



JOB No WTC48670

# VICINITY MAP



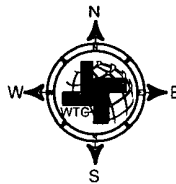
SECTION 36, T 24 S, R 31 E, N M P.M

COUNTY EDDY STATE: NM

DESCRIPTION: 25' FNL & 1780' FEL

OPERATOR: DEVON ENERGY

WELL NAME: COTTON DRAW UNIT-165H



## DRIVING DIRECTIONS:

From the intersection of Buck Jackson Road and NM State Highway 128 Go southwesterly on Buck Jackson Road 4.8 miles to lease road left Go 0.8 miles and take a right at the "Y" Go 0.3 miles to lease road left Go 2.6 miles to the proposed road and the location is northeast 0.2 miles

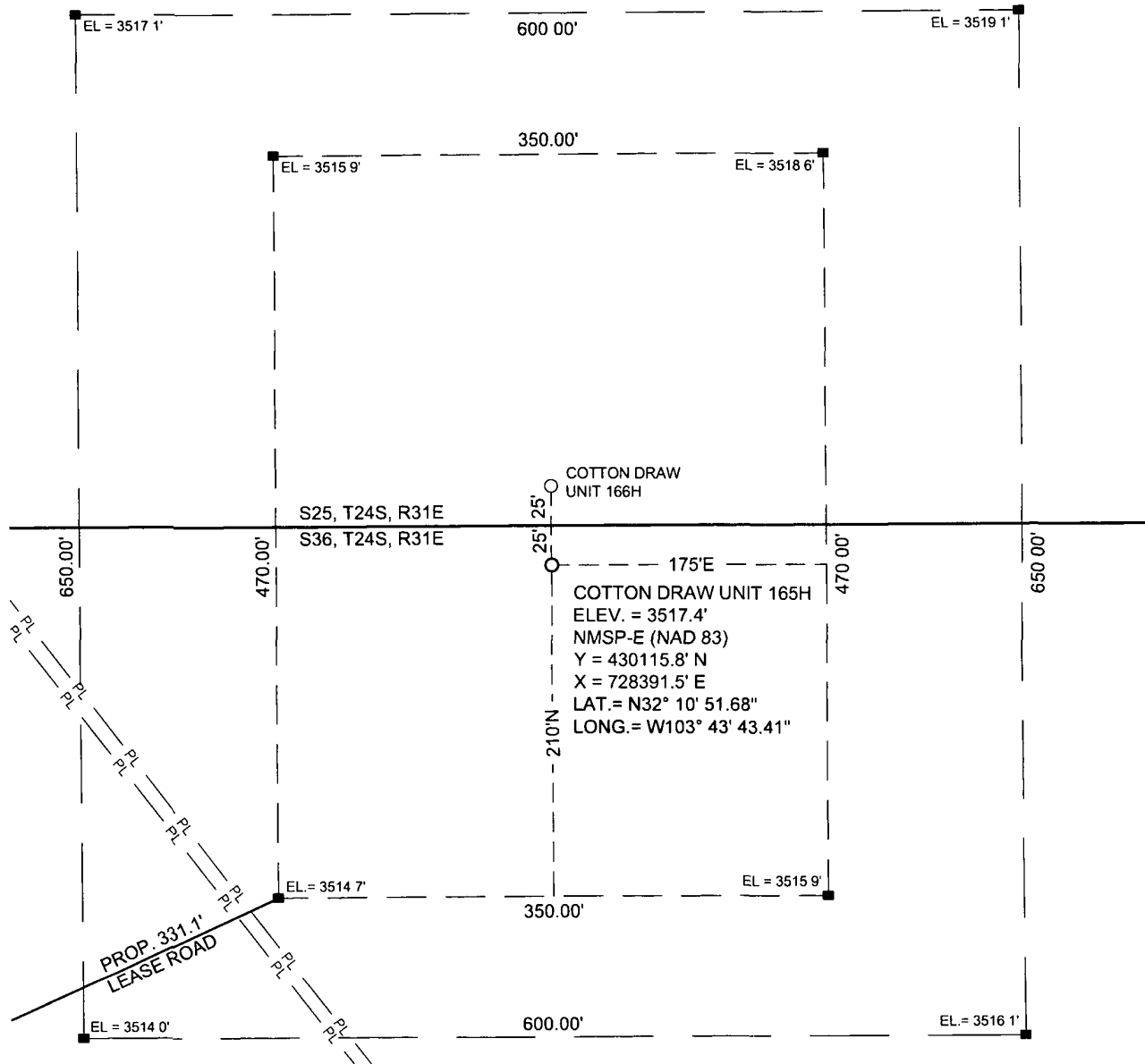


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ANDREWS, TEXAS 79714  
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JOB No WTC48670

# SITE LOCATION



SCALE. 1" = 100'

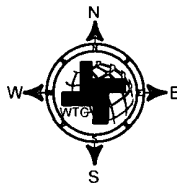
SECTION 36,T 24 S, R 31 E, N.M.P.M.

COUNTY: EDDY STATE: NM

DESCRIPTION. 25' FNL & 1780' FEL

OPERATOR: DEVON ENERGY

WELL NAME COTTON DRAW UNIT-165H



DRIVING DIRECTIONS:

From the intersection of Buck Jackson Road and NM State Highway 128 Go southwesterly on Buck Jackson Road 4.8 miles to lease road left Go 0.8 miles and take a right at the "Y". Go 0.3 miles to lease road left Go 2.6 miles to the proposed road and the location is northeast 0.2 miles.

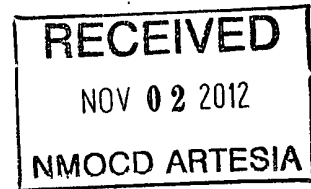


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JOB No WTC48670

100% of the total sample size.



**Weatherford®**

**Drilling Services**

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**Proposal**

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**devon**

COTTON DRAW UNIT #165H

EDDY COUNTY, NM

WELL FILE: **PLAN 1**

OCTOBER 26, 2012

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**Weatherford International, Ltd.**

P.O. Box 61028

Midland, TX 79711 USA

+1.432.561.8892 Main

+1.432.561.8895 Fax

[www.weatherford.com](http://www.weatherford.com)

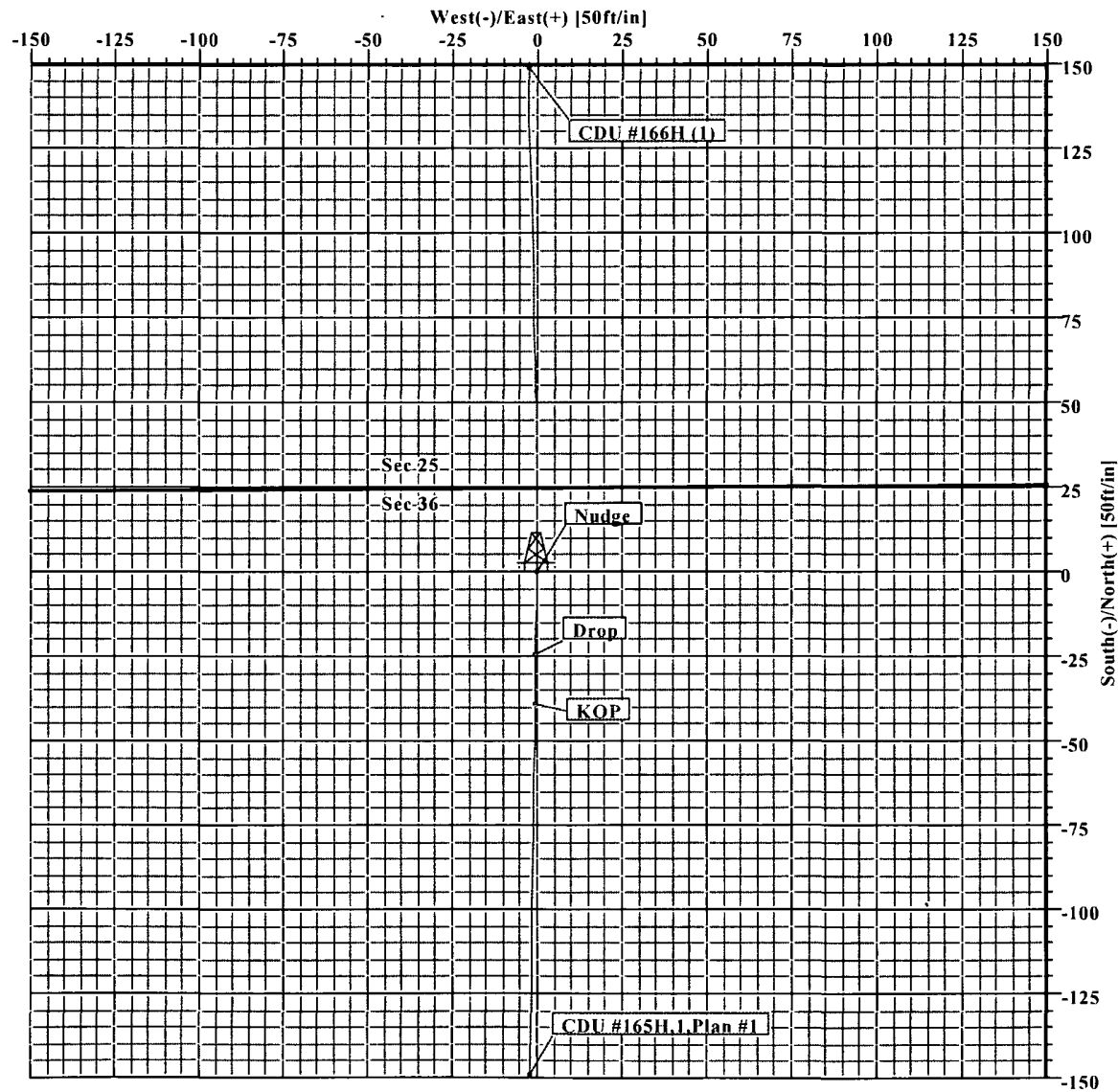


Cotton Draw Unit #165, 166 Pad  
Eddy Co, NM

LEGEND

CDU #165H.1, Plan #1

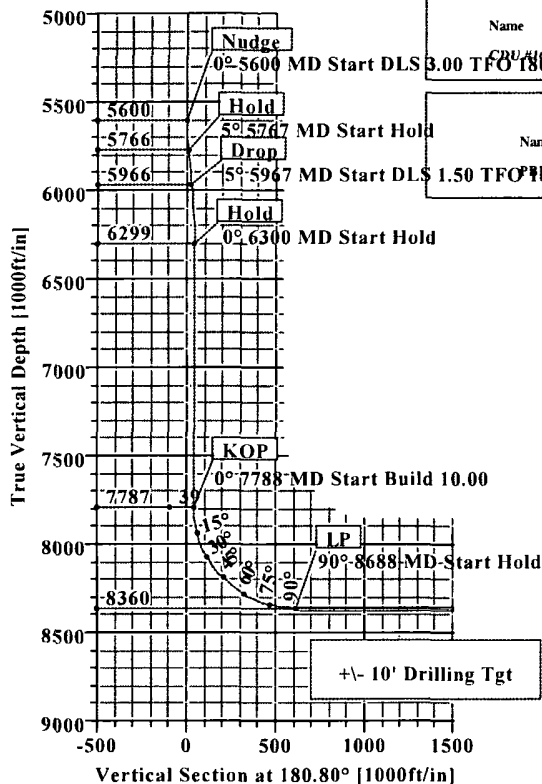
CDU #166H (1)





Cotton Draw Unit #165H  
Eddy Co, NM

KB ELEV: 3542  
GL ELEV: 3517



| SECTION DETAILS |          |       |        |         |          |        |       |        |         |        |
|-----------------|----------|-------|--------|---------|----------|--------|-------|--------|---------|--------|
| Sec             | MD       | Inc   | Azi    | TVD     | +N/-S    | +E/-W  | DLeg  | TFace  | VSec    | Target |
| 1               | 0.00     | 0.00  | 180.80 | 0.00    | 0.00     | 0.00   | 0.00  | 0.00   | 0.00    |        |
| 2               | 5600.00  | 0.00  | 180.80 | 5600.00 | 0.00     | 0.00   | 0.00  | 180.80 | 0.00    |        |
| 3               | 5766.67  | 5.00  | 180.80 | 5766.67 | -7.27    | -0.10  | 3.00  | 180.80 | 7.27    |        |
| 4               | 5966.67  | 5.00  | 180.80 | 5966.67 | -24.70   | -0.34  | 0.00  | 0.00   | 24.70   |        |
| 5               | 6300.00  | 0.00  | 180.80 | 6298.60 | -39.23   | -0.55  | 1.50  | 180.00 | 39.23   |        |
| 6               | 7788.44  | 0.00  | 180.80 | 7787.04 | -39.23   | -0.55  | 0.00  | 0.00   | 39.23   |        |
| 7               | 8688.44  | 90.00 | 180.80 | 8360.00 | -612.13  | -8.58  | 10.00 | 180.80 | 612.19  |        |
| 8               | 12989.43 | 90.00 | 180.80 | 8360.00 | -4912.70 | -68.90 | 0.00  | 0.00   | 4913.18 | PBHL   |

| WELL DETAILS |       |       |           |           |               |                |      |
|--------------|-------|-------|-----------|-----------|---------------|----------------|------|
| Name         | +N/-S | +E/-W | Northing  | Easting   | Latitude      | Longitude      | Slot |
| CDU #165H    | 0.00  | 0.00  | 430115.80 | 728391.50 | 32°10'51.667N | 103°43'43.424W | N/A  |

| TARGET DETAILS |         |          |        |           |           |                     |
|----------------|---------|----------|--------|-----------|-----------|---------------------|
| Name           | TVD     | +N/-S    | +E/-W  | Northing  | Easting   | Shape               |
|                | 8360.00 | -4912.70 | -68.90 | 425203.10 | 728322.60 | Rectangle (4300x50) |

| LEGEND |               |
|--------|---------------|
|        | CDU #166H (1) |
|        | Plan #1       |



**FIELD DETAILS**

Eddy Co., NM (NAD 83)

Geodetic System: US State Plane Coordinate System 1983  
Ellipsoid: GRS 1980  
Zone: New Mexico, Eastern Zone  
Magnetic Model: IGRF2010

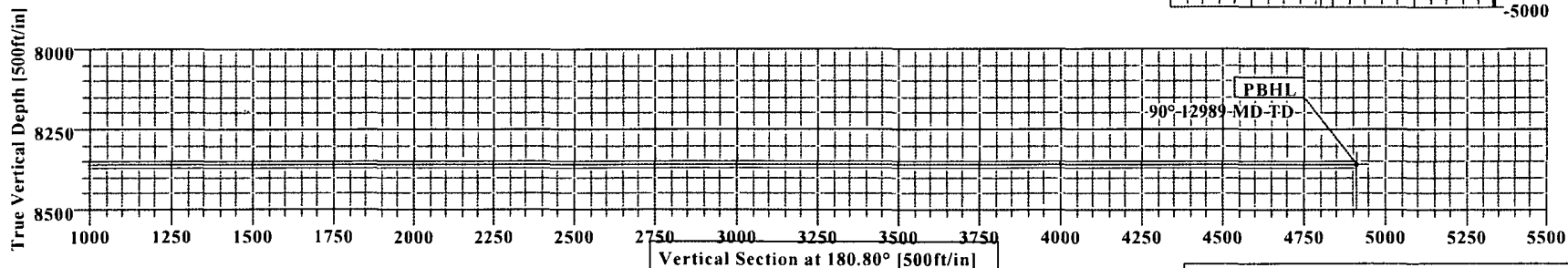
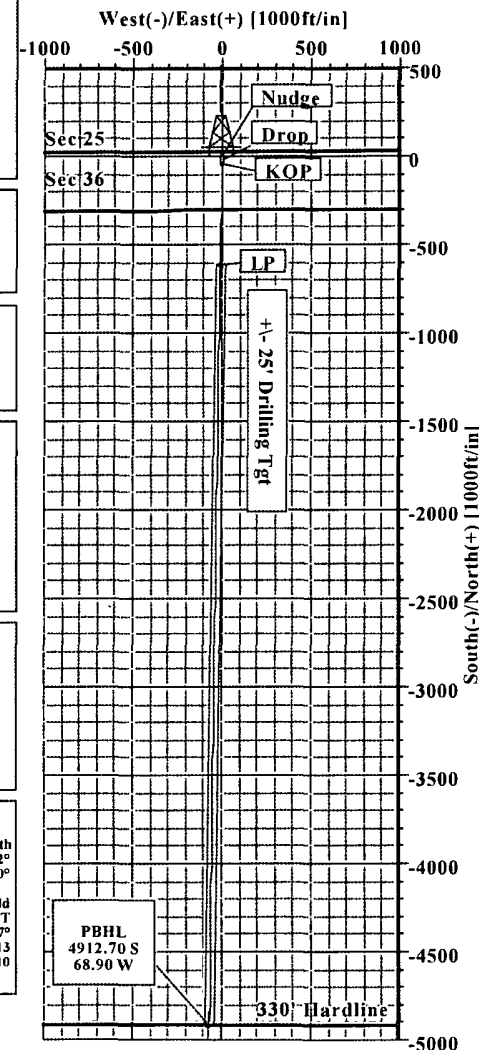
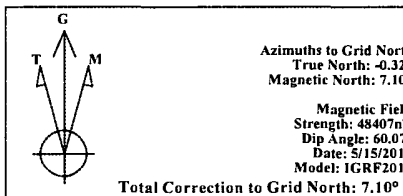
System Datum: Mean Sea Level  
Local North: Grid North

**SITE DETAILS**

Cotton Draw Unit #165H

Site Centre Northing: 430115.80  
Easting: 728391.50

Ground Level: 3517.00  
Positional Uncertainty: 0.00  
Convergence: 0.32



Plan: Plan #1 (CDU #165H/1)  
Created By: Russell W. Joyner  
Date: 10/26/2012



# Weatherford

## WFT Plan Report - X & Y's



Company: Devon Energy Date: 10/26/2012 Time: 08 45:27 Page: 1  
Field: Eddy Co., NM (NAD 83) Co-ordinate(NE) Reference: Well CDU #165H, Grid North  
Site: Cotton Draw Unit #165H Vertical (TVD) Reference: SITE 3542 0  
Well: CDU #165H Section (VS) Reference: Well (0.00N,0.00E,180.80Azi)  
Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Plan: Plan #1 Date Composed: 10/26/2012  
Principal: Yes Version: 1  
Tied-to: From Surface

Field: Eddy Co., NM (NAD 83)  
Map System: US State Plane Coordinate System 1983 Map Zone: New Mexico, Eastern Zone  
Geo Datum: GRS 1980 Coordinate System: Well Centre  
Sys Datum: Mean Sea Level Geomagnetic Model: IGRF2010

Site: Cotton Draw Unit #165H  
Site Position: Northing: 430115.80 ft Latitude: 32 10 51.667 N  
From: Map Easting: 728391.50 ft Longitude: 103 43 43.424 W  
Position Uncertainty: 0.00 ft North Reference: Grd  
Ground Level: 3517.00 ft Grid Convergence: 0.32 deg

Well: CDU #165H Slot Name:  
Well Position: +N/-S 0.00 ft Northing: 430115.80 ft Latitude: 32 10 51.667 N  
+E/-W 0.00 ft Easting: 728391.50 ft Longitude: 103 43 43.424 W  
Position Uncertainty: 0.00 ft

Wellpath: 1  
Current Datum: SITE Height: 3542.00 ft  
Magnetic Data: 5/15/2013  
Field Strength: 48407 nT  
Vertical Section: Depth From (TVD) +N/-S +E/-W Direction  
ft ft deg  
0.00 0.00 0.00 180.80

### Plan Section Information

| MD<br>ft | Incl<br>deg | Azim<br>deg | TVD<br>ft | +N/-S<br>ft | +E/-W<br>ft | DLS<br>deg/100ft | Build<br>deg/100ft | Turn<br>deg/100ft | TFO<br>deg | Target |
|----------|-------------|-------------|-----------|-------------|-------------|------------------|--------------------|-------------------|------------|--------|
| 0.00     | 0.00        | 180.80      | 0.00      | 0.00        | 0.00        | 0.00             | 0.00               | 0.00              | 0.00       |        |
| 5600.00  | 0.00        | 180.80      | 5600.00   | 0.00        | 0.00        | 0.00             | 0.00               | 0.00              | 180.80     |        |
| 5766.67  | 5.00        | 180.80      | 5766.46   | -7.27       | -0.10       | 3.00             | 3.00               | 0.00              | 180.80     |        |
| 5966.67  | 5.00        | 180.80      | 5965.69   | -24.70      | -0.34       | 0.00             | 0.00               | 0.00              | 0.00       |        |
| 6300.00  | 0.00        | 180.80      | 6298.60   | -39.23      | -0.55       | 1.50             | -1.50              | 53.76             | 180.00     |        |
| 7788.44  | 0.00        | 180.80      | 7787.04   | -39.23      | -0.55       | 0.00             | 0.00               | 0.00              | 0.00       |        |
| 8688.44  | 90.00       | 180.80      | 8360.00   | -612.13     | -8.58       | 10.00            | 10.00              | 0.00              | 180.80     |        |
| 12989.43 | 90.00       | 180.80      | 8360.00   | -4912.70    | -68.90      | 0.00             | 0.00               | 0.00              | 0.00       | PBHL   |

### Survey

| MD<br>ft | Incl<br>deg | Azim<br>deg | TVD<br>ft | N/S<br>ft | E/W<br>ft | VS<br>ft | DLS<br>deg/100ft | MapN<br>ft | MapE<br>ft | Comment |
|----------|-------------|-------------|-----------|-----------|-----------|----------|------------------|------------|------------|---------|
| 5600.00  | 0.00        | 180.80      | 5600.00   | 0.00      | 0.00      | 0.00     | 0.00             | 430115.80  | 728391.50  | Nudge   |
| 5700.00  | 3.00        | 180.80      | 5699.95   | -2.62     | -0.04     | 2.62     | 3.00             | 430113.18  | 728391.46  |         |
| 5766.67  | 5.00        | 180.80      | 5766.46   | -7.27     | -0.10     | 7.27     | 3.00             | 430108.53  | 728391.40  | Hold    |
| 5800.00  | 5.00        | 180.80      | 5799.66   | -10.17    | -0.14     | 10.17    | 0.00             | 430105.63  | 728391.36  |         |
| 5900.00  | 5.00        | 180.80      | 5899.28   | -18.89    | -0.26     | 18.89    | 0.00             | 430096.91  | 728391.24  |         |
| 5966.67  | 5.00        | 180.80      | 5965.69   | -24.70    | -0.34     | 24.70    | 0.00             | 430091.10  | 728391.16  | Drop    |
| 6000.00  | 4.50        | 180.80      | 5998.91   | -27.46    | -0.38     | 27.46    | 1.50             | 430088.34  | 728391.12  |         |
| 6100.00  | 3.00        | 180.80      | 6098.70   | -34.00    | -0.47     | 34.00    | 1.50             | 430081.80  | 728391.03  |         |
| 6200.00  | 1.50        | 180.80      | 6198.62   | -37.92    | -0.53     | 37.92    | 1.50             | 430077.88  | 728390.97  |         |
| 6300.00  | 0.00        | 180.80      | 6298.60   | -39.23    | -0.55     | 39.23    | 1.50             | 430076.57  | 728390.95  | Hold    |
| 6400.00  | 0.00        | 180.80      | 6398.60   | -39.23    | -0.55     | 39.23    | 0.00             | 430076.57  | 728390.95  |         |
| 6500.00  | 0.00        | 180.80      | 6498.60   | -39.23    | -0.55     | 39.23    | 0.00             | 430076.57  | 728390.95  |         |
| 6600.00  | 0.00        | 180.80      | 6598.60   | -39.23    | -0.55     | 39.23    | 0.00             | 430076.57  | 728390.95  |         |
| 6700.00  | 0.00        | 180.80      | 6698.60   | -39.23    | -0.55     | 39.23    | 0.00             | 430076.57  | 728390.95  |         |



# Weatherford

## WFT Plan Report - X & Y's



Company: Devon Energy  
Field: Eddy Co., NM (NAD 83)  
Site: Cotton Draw Unit #165H  
Well: CDU #165H  
Wellpath: 1

Date: 10/26/2012 Time: 08:45:27 Page: 2  
Co-ordinate(NE) Reference: Well CDU #165H, Grid North  
Vertical (TVD) Reference: SITE 3542.0  
Section (VS) Reference: Well (0.00N, 0.00E, 180.80Az)  
Survey Calculation Method: Minimum Curvature Db: Sybase

### Survey

| MD<br>ft | Incl<br>deg | Azim<br>deg | TVD<br>ft | N/S<br>ft | E/W<br>ft | VS<br>ft | DLS<br>deg/100ft | MapN<br>ft | MapE<br>ft | Comment |
|----------|-------------|-------------|-----------|-----------|-----------|----------|------------------|------------|------------|---------|
| 6800.00  | 0.00        | 180.80      | 6798.60   | -39.23    | -0.55     | 39.23    | 0.00             | 430076.57  | 728390.95  |         |
| 6900.00  | 0.00        | 180.80      | 6898.60   | -39.23    | -0.55     | 39.23    | 0.00             | 430076.57  | 728390.95  |         |
| 7000.00  | 0.00        | 180.80      | 6998.60   | -39.23    | -0.55     | 39.23    | 0.00             | 430076.57  | 728390.95  |         |
| 7100.00  | 0.00        | 180.80      | 7098.60   | -39.23    | -0.55     | 39.23    | 0.00             | 430076.57  | 728390.95  |         |
| 7200.00  | 0.00        | 180.80      | 7198.60   | -39.23    | -0.55     | 39.23    | 0.00             | 430076.57  | 728390.95  |         |
| 7300.00  | 0.00        | 180.80      | 7298.60   | -39.23    | -0.55     | 39.23    | 0.00             | 430076.57  | 728390.95  |         |
| 7400.00  | 0.00        | 180.80      | 7398.60   | -39.23    | -0.55     | 39.23    | 0.00             | 430076.57  | 728390.95  |         |
| 7500.00  | 0.00        | 180.80      | 7498.60   | -39.23    | -0.55     | 39.23    | 0.00             | 430076.57  | 728390.95  |         |
| 7600.00  | 0.00        | 180.80      | 7598.60   | -39.23    | -0.55     | 39.23    | 0.00             | 430076.57  | 728390.95  |         |
| 7700.00  | 0.00        | 180.80      | 7698.60   | -39.23    | -0.55     | 39.23    | 0.00             | 430076.57  | 728390.95  |         |
| 7788.44  | 0.00        | 180.80      | 7787.04   | -39.23    | -0.55     | 39.23    | 0.00             | 430076.57  | 728390.95  | KOP     |
| 7800.00  | 1.16        | 180.80      | 7798.60   | -39.35    | -0.55     | 39.35    | 10.00            | 430076.45  | 728390.95  |         |
| 7850.00  | 6.16        | 180.80      | 7848.49   | -42.53    | -0.59     | 42.54    | 10.00            | 430073.27  | 728390.91  |         |
| 7900.00  | 11.16       | 180.80      | 7897.90   | -50.06    | -0.70     | 50.06    | 10.00            | 430065.74  | 728390.80  |         |
| 7950.00  | 16.16       | 180.80      | 7946.47   | -61.86    | -0.87     | 61.86    | 10.00            | 430053.94  | 728390.63  |         |
| 8000.00  | 21.16       | 180.80      | 7993.83   | -77.84    | -1.09     | 77.85    | 10.00            | 430037.96  | 728390.41  |         |
| 8050.00  | 26.16       | 180.80      | 8039.61   | -97.90    | -1.37     | 97.91    | 10.00            | 430017.90  | 728390.13  |         |
| 8100.00  | 31.16       | 180.80      | 8083.48   | -121.87   | -1.71     | 121.88   | 10.00            | 429993.93  | 728389.79  |         |
| 8150.00  | 36.16       | 180.80      | 8125.08   | -149.56   | -2.10     | 149.58   | 10.00            | 429966.24  | 728389.40  |         |
| 8200.00  | 41.16       | 180.80      | 8164.11   | -180.78   | -2.53     | 180.80   | 10.00            | 429935.02  | 728388.97  |         |
| 8250.00  | 46.16       | 180.80      | 8200.28   | -215.29   | -3.02     | 215.31   | 10.00            | 429900.51  | 728388.48  |         |
| 8300.00  | 51.16       | 180.80      | 8233.30   | -252.81   | -3.54     | 252.83   | 10.00            | 429862.99  | 728387.96  |         |
| 8350.00  | 56.16       | 180.80      | 8262.92   | -293.07   | -4.11     | 293.09   | 10.00            | 429822.73  | 728387.39  |         |
| 8400.00  | 61.16       | 180.80      | 8288.92   | -335.75   | -4.71     | 335.78   | 10.00            | 429780.05  | 728386.79  |         |
| 8450.00  | 66.16       | 180.80      | 8311.10   | -380.54   | -5.33     | 380.58   | 10.00            | 429735.26  | 728386.17  |         |
| 8500.00  | 71.16       | 180.80      | 8329.29   | -427.09   | -5.99     | 427.13   | 10.00            | 429688.71  | 728385.51  |         |
| 8550.00  | 76.16       | 180.80      | 8343.36   | -475.05   | -6.66     | 475.10   | 10.00            | 429640.75  | 728384.84  |         |
| 8600.00  | 81.16       | 180.80      | 8353.19   | -524.05   | -7.35     | 524.10   | 10.00            | 429591.75  | 728384.15  |         |
| 8650.00  | 86.16       | 180.80      | 8358.71   | -573.73   | -8.04     | 573.78   | 10.00            | 429542.07  | 728383.46  |         |
| 8688.44  | 90.00       | 180.80      | 8360.00   | -612.13   | -8.58     | 612.19   | 10.00            | 429503.67  | 728382.92  | LP      |
| 8700.00  | 90.00       | 180.80      | 8360.00   | -623.69   | -8.75     | 623.75   | 0.00             | 429492.11  | 728382.75  |         |
| 8800.00  | 90.00       | 180.80      | 8360.00   | -723.68   | -10.15    | 723.75   | 0.00             | 429392.12  | 728381.35  |         |
| 8900.00  | 90.00       | 180.80      | 8360.00   | -823.67   | -11.55    | 823.75   | 0.00             | 429292.13  | 728379.95  |         |
| 9000.00  | 90.00       | 180.80      | 8360.00   | -923.66   | -12.95    | 923.75   | 0.00             | 429192.14  | 728378.55  |         |
| 9100.00  | 90.00       | 180.80      | 8360.00   | -1023.65  | -14.35    | 1023.75  | 0.00             | 429092.15  | 728377.15  |         |
| 9200.00  | 90.00       | 180.80      | 8360.00   | -1123.64  | -15.76    | 1123.75  | 0.00             | 428992.16  | 728375.74  |         |
| 9300.00  | 90.00       | 180.80      | 8360.00   | -1223.63  | -17.16    | 1223.75  | 0.00             | 428892.17  | 728374.34  |         |
| 9400.00  | 90.00       | 180.80      | 8360.00   | -1323.62  | -18.56    | 1323.75  | 0.00             | 428792.18  | 728372.94  |         |
| 9500.00  | 90.00       | 180.80      | 8360.00   | -1423.61  | -19.96    | 1423.75  | 0.00             | 428692.19  | 728371.54  |         |
| 9600.00  | 90.00       | 180.80      | 8360.00   | -1523.60  | -21.37    | 1523.75  | 0.00             | 428592.20  | 728370.13  |         |
| 9700.00  | 90.00       | 180.80      | 8360.00   | -1623.59  | -22.77    | 1623.75  | 0.00             | 428492.21  | 728368.73  |         |
| 9800.00  | 90.00       | 180.80      | 8360.00   | -1723.58  | -24.17    | 1723.75  | 0.00             | 428392.22  | 728367.33  |         |
| 9900.00  | 90.00       | 180.80      | 8360.00   | -1823.57  | -25.57    | 1823.75  | 0.00             | 428292.23  | 728365.93  |         |
| 10000.00 | 90.00       | 180.80      | 8360.00   | -1923.56  | -26.98    | 1923.75  | 0.00             | 428192.24  | 728364.52  |         |
| 10100.00 | 90.00       | 180.80      | 8360.00   | -2023.56  | -28.38    | 2023.75  | 0.00             | 428092.24  | 728363.12  |         |
| 10200.00 | 90.00       | 180.80      | 8360.00   | -2123.55  | -29.78    | 2123.75  | 0.00             | 427992.25  | 728361.72  |         |
| 10300.00 | 90.00       | 180.80      | 8360.00   | -2223.54  | -31.18    | 2223.75  | 0.00             | 427892.26  | 728360.32  |         |
| 10400.00 | 90.00       | 180.80      | 8360.00   | -2323.53  | -32.59    | 2323.75  | 0.00             | 427792.27  | 728358.91  |         |
| 10500.00 | 90.00       | 180.80      | 8360.00   | -2423.52  | -33.99    | 2423.75  | 0.00             | 427692.28  | 728357.51  |         |
| 10600.00 | 90.00       | 180.80      | 8360.00   | -2523.51  | -35.39    | 2523.75  | 0.00             | 427592.29  | 728356.11  |         |
| 10700.00 | 90.00       | 180.80      | 8360.00   | -2623.50  | -36.79    | 2623.75  | 0.00             | 427492.30  | 728354.71  |         |
| 10800.00 | 90.00       | 180.80      | 8360.00   | -2723.49  | -38.20    | 2723.75  | 0.00             | 427392.31  | 728353.30  |         |



# Weatherford WFT Plan Report - X & Y's



Company: Devon Energy  
Field: Eddy Co., NM (NAD 83)  
Site: Cotton Draw Unit #165H  
Well: CDU #165H  
Wellpath: 1

Date: 10/26/2012 Time: 08:45:27 Page: 3  
Co-ordinate(NE) Reference: Well CDU #165H, Grid North  
Vertical (TVD) Reference: SITE 3542 0  
Section (VS) Reference: Well (0 00N, 0 00E, 180 80Azi)  
Survey Calculation Method: Minimum Curvature Db: Sybase

## Survey

| MD<br>ft | Incl<br>deg | Azim<br>deg | TVD<br>ft | N/S<br>ft | E/W<br>ft | VS<br>ft | DLS<br>deg/100ft | MapN<br>ft | MapE<br>ft | Comment |
|----------|-------------|-------------|-----------|-----------|-----------|----------|------------------|------------|------------|---------|
| 10900.00 | 90.00       | 180.80      | 8360.00   | -2823.48  | -39.60    | 2823.75  | 0.00             | 427292.32  | 728351.90  |         |
| 11000.00 | 90.00       | 180.80      | 8360.00   | -2923.47  | -41.00    | 2923.75  | 0.00             | 427192.33  | 728350.50  |         |
| 11100.00 | 90.00       | 180.80      | 8360.00   | -3023.46  | -42.40    | 3023.75  | 0.00             | 427092.34  | 728349.10  |         |
| 11200.00 | 90.00       | 180.80      | 8360.00   | -3123.45  | -43.81    | 3123.75  | 0.00             | 426992.35  | 728347.69  |         |
| 11300.00 | 90.00       | 180.80      | 8360.00   | -3223.44  | -45.21    | 3223.75  | 0.00             | 426892.36  | 728346.29  |         |
| 11400.00 | 90.00       | 180.80      | 8360.00   | -3323.43  | -46.61    | 3323.75  | 0.00             | 426792.37  | 728344.89  |         |
| 11500.00 | 90.00       | 180.80      | 8360.00   | -3423.42  | -48.01    | 3423.75  | 0.00             | 426692.38  | 728343.49  |         |
| 11600.00 | 90.00       | 180.80      | 8360.00   | -3523.41  | -49.41    | 3523.75  | 0.00             | 426592.39  | 728342.09  |         |
| 11700.00 | 90.00       | 180.80      | 8360.00   | -3623.40  | -50.82    | 3623.75  | 0.00             | 426492.40  | 728340.68  |         |
| 11800.00 | 90.00       | 180.80      | 8360.00   | -3723.39  | -52.22    | 3723.75  | 0.00             | 426392.41  | 728339.28  |         |
| 11900.00 | 90.00       | 180.80      | 8360.00   | -3823.38  | -53.62    | 3823.75  | 0.00             | 426292.42  | 728337.88  |         |
| 12000.00 | 90.00       | 180.80      | 8360.00   | -3923.37  | -55.02    | 3923.75  | 0.00             | 426192.43  | 728336.48  |         |
| 12100.00 | 90.00       | 180.80      | 8360.00   | -4023.36  | -56.43    | 4023.75  | 0.00             | 426092.44  | 728335.07  |         |
| 12200.00 | 90.00       | 180.80      | 8360.00   | -4123.35  | -57.83    | 4123.75  | 0.00             | 425992.45  | 728333.67  |         |
| 12300.00 | 90.00       | 180.80      | 8360.00   | -4223.34  | -59.23    | 4223.75  | 0.00             | 425892.46  | 728332.27  |         |
| 12400.00 | 90.00       | 180.80      | 8360.00   | -4323.33  | -60.63    | 4323.75  | 0.00             | 425792.47  | 728330.87  |         |
| 12500.00 | 90.00       | 180.80      | 8360.00   | -4423.32  | -62.04    | 4423.75  | 0.00             | 425692.48  | 728329.46  |         |
| 12600.00 | 90.00       | 180.80      | 8360.00   | -4523.31  | -63.44    | 4523.75  | 0.00             | 425592.49  | 728328.06  |         |
| 12700.00 | 90.00       | 180.80      | 8360.00   | -4623.30  | -64.84    | 4623.75  | 0.00             | 425492.50  | 728326.66  |         |
| 12800.00 | 90.00       | 180.80      | 8360.00   | -4723.29  | -66.24    | 4723.75  | 0.00             | 425392.51  | 728325.26  |         |
| 12900.00 | 90.00       | 180.80      | 8360.00   | -4823.28  | -67.65    | 4823.75  | 0.00             | 425292.52  | 728323.85  |         |
| 12989.43 | 90.00       | 180.80      | 8360.00   | -4912.70  | -68.90    | 4913.18  | 0.00             | 425203.10  | 728322.60  | PBHL    |

## Targets

| Name | Description<br>Dip. | Dir. | TVD<br>ft | +N/-S<br>ft | +E/-W<br>ft | Map<br>Northing<br>ft | Map<br>Easting<br>ft | <--- Latitude ---> |    |         | <--- Longitude ---> |    |          |
|------|---------------------|------|-----------|-------------|-------------|-----------------------|----------------------|--------------------|----|---------|---------------------|----|----------|
| PBHL |                     |      | 8360.00   | -4912.70    | -68.90      | 425203.10             | 728322.60            | 32                 | 10 | 3 057 N | 103                 | 43 | 44 546 W |

## Casing Points

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

## Annotation

| MD<br>ft | TVD<br>ft |       |
|----------|-----------|-------|
| 5600.00  | 5600.00   | Nudge |
| 5766.67  | 5766.46   | Hold  |
| 5966.67  | 5965.70   | Drop  |
| 6300.00  | 6298.60   | Hold  |
| 7788.44  | 7787.04   | KOP   |
| 8688.44  | 8360.00   | LP    |
| 12989.42 | 8360.00   | PBHL  |

## Formations

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



# Weatherford Anticollision Report



Company: Devon Energy Date: 10/26/2012 Time: 09:11:23 Page: 1  
Field: Eddy Co., NM (NAD 83)  
Reference Site: Cotton Draw Unit #165H Co-ordinate(NE) Reference: Well: CDU #165H, Grid North  
Reference Well: CDU #165H Vertical (TVD) Reference: SITE 3542.0  
Reference Wellpath: Db: Sybase

NO GLOBAL SCAN: Using user defined selection & scan criteria Reference: Plan: Plan #1  
Interpolation Method: MD + Stations Interval: 100.00 ft Error Model: ISCWSA Ellipse  
Depth Range: 0 00 to 12989.43 ft Scan Method: Closest Approach 3D  
Maximum Radius: 0000.00 ft Error Surface: Ellipse

Plan: Plan #1 Date Composed: 10/26/2012  
Principal: Yes Version: 1  
Tied-to: From Surface

## Summary

| Site                   | Offset Wellpath<br>Well | Wellpath             | Reference<br>MD<br>ft | Offset<br>MD<br>ft | Ctr-Ctr Edge<br>Distance<br>ft | Separation<br>Distance<br>ft | Factor | Warning |
|------------------------|-------------------------|----------------------|-----------------------|--------------------|--------------------------------|------------------------------|--------|---------|
| Cotton Draw Unit #166H | CDU #166H               | 1 V0 Plan Plan #1 V1 | 5600.00               | 5600.00            | 50.00                          | 25.11                        | 2.01   |         |

Site: Cotton Draw Unit #166H  
Well: CDU #166H  
Wellpath: 1 V0 Plan: Plan #1 V1

Inter-Site Error: 0 00 ft

| Reference<br>MD<br>ft | TVD<br>ft | Offset<br>MD<br>ft | TVD<br>ft | Semi-Major Axis<br>Ref<br>ft | Offset<br>ft | TFO-HS<br>deg | Offset Location<br>North<br>ft | East<br>ft | Ctr-Ctr Edge<br>Distance<br>ft | Separation<br>Distance<br>ft | Factor | Warning |
|-----------------------|-----------|--------------------|-----------|------------------------------|--------------|---------------|--------------------------------|------------|--------------------------------|------------------------------|--------|---------|
| 0.00                  | 0.00      | 0.00               | 0.00      | 0.00                         | 0.00         | -0.23         | 50.00                          | -0.20      | 50.00                          |                              |        | No Data |
| 100.00                | 100.00    | 100.00             | 100.00    | 0.08                         | 0.08         | -0.23         | 50.00                          | -0.20      | 50.00                          | 49.83                        | 296.61 |         |
| 200.00                | 200.00    | 200.00             | 200.00    | 0.31                         | 0.31         | -0.23         | 50.00                          | -0.20      | 50.00                          | 49.38                        | 80.89  |         |
| 300.00                | 300.00    | 300.00             | 300.00    | 0.53                         | 0.53         | -0.23         | 50.00                          | -0.20      | 50.00                          | 48.93                        | 46.83  |         |
| 400.00                | 400.00    | 400.00             | 400.00    | 0.76                         | 0.76         | -0.23         | 50.00                          | -0.20      | 50.00                          | 48.48                        | 32.96  |         |
| 500.00                | 500.00    | 500.00             | 500.00    | 0.98                         | 0.98         | -0.23         | 50.00                          | -0.20      | 50.00                          | 48.03                        | 25.42  |         |
| 600.00                | 600.00    | 600.00             | 600.00    | 1.21                         | 1.21         | -0.23         | 50.00                          | -0.20      | 50.00                          | 47.58                        | 20.69  |         |
| 700.00                | 700.00    | 700.00             | 700.00    | 1.43                         | 1.43         | -0.23         | 50.00                          | -0.20      | 50.00                          | 47.13                        | 17.45  |         |
| 800.00                | 800.00    | 800.00             | 800.00    | 1.66                         | 1.66         | -0.23         | 50.00                          | -0.20      | 50.00                          | 46.69                        | 15.08  |         |
| 900.00                | 900.00    | 900.00             | 900.00    | 1.88                         | 1.88         | -0.23         | 50.00                          | -0.20      | 50.00                          | 46.24                        | 13.28  |         |
| 1000.00               | 1000.00   | 1000.00            | 1000.00   | 2.11                         | 2.11         | -0.23         | 50.00                          | -0.20      | 50.00                          | 45.79                        | 11.86  |         |
| 1100.00               | 1100.00   | 1100.00            | 1100.00   | 2.33                         | 2.33         | -0.23         | 50.00                          | -0.20      | 50.00                          | 45.34                        | 10.72  |         |
| 1200.00               | 1200.00   | 1200.00            | 1200.00   | 2.56                         | 2.56         | -0.23         | 50.00                          | -0.20      | 50.00                          | 44.89                        | 9.78   |         |
| 1300.00               | 1300.00   | 1300.00            | 1300.00   | 2.78                         | 2.78         | -0.23         | 50.00                          | -0.20      | 50.00                          | 44.44                        | 8.99   |         |
| 1400.00               | 1400.00   | 1400.00            | 1400.00   | 3.01                         | 3.01         | -0.23         | 50.00                          | -0.20      | 50.00                          | 43.99                        | 8.32   |         |
| 1500.00               | 1500.00   | 1500.00            | 1500.00   | 3.23                         | 3.23         | -0.23         | 50.00                          | -0.20      | 50.00                          | 43.54                        | 7.74   |         |
| 1600.00               | 1600.00   | 1600.00            | 1600.00   | 3.46                         | 3.46         | -0.23         | 50.00                          | -0.20      | 50.00                          | 43.09                        | 7.23   |         |
| 1700.00               | 1700.00   | 1700.00            | 1700.00   | 3.68                         | 3.68         | -0.23         | 50.00                          | -0.20      | 50.00                          | 42.64                        | 6.79   |         |
| 1800.00               | 1800.00   | 1800.00            | 1800.00   | 3.91                         | 3.91         | -0.23         | 50.00                          | -0.20      | 50.00                          | 42.19                        | 6.40   |         |
| 1900.00               | 1900.00   | 1900.00            | 1900.00   | 4.13                         | 4.13         | -0.23         | 50.00                          | -0.20      | 50.00                          | 41.74                        | 6.05   |         |
| 2000.00               | 2000.00   | 2000.00            | 2000.00   | 4.35                         | 4.35         | -0.23         | 50.00                          | -0.20      | 50.00                          | 41.29                        | 5.74   |         |
| 2100.00               | 2100.00   | 2100.00            | 2100.00   | 4.58                         | 4.58         | -0.23         | 50.00                          | -0.20      | 50.00                          | 40.84                        | 5.46   |         |
| 2200.00               | 2200.00   | 2200.00            | 2200.00   | 4.80                         | 4.80         | -0.23         | 50.00                          | -0.20      | 50.00                          | 40.39                        | 5.20   |         |
| 2300.00               | 2300.00   | 2300.00            | 2300.00   | 5.03                         | 5.03         | -0.23         | 50.00                          | -0.20      | 50.00                          | 39.94                        | 4.97   |         |
| 2400.00               | 2400.00   | 2400.00            | 2400.00   | 5.25                         | 5.25         | -0.23         | 50.00                          | -0.20      | 50.00                          | 39.49                        | 4.76   |         |
| 2500.00               | 2500.00   | 2500.00            | 2500.00   | 5.48                         | 5.48         | -0.23         | 50.00                          | -0.20      | 50.00                          | 39.04                        | 4.56   |         |
| 2600.00               | 2600.00   | 2600.00            | 2600.00   | 5.70                         | 5.70         | -0.23         | 50.00                          | -0.20      | 50.00                          | 38.59                        | 4.38   |         |
| 2700.00               | 2700.00   | 2700.00            | 2700.00   | 5.93                         | 5.93         | -0.23         | 50.00                          | -0.20      | 50.00                          | 38.14                        | 4.22   |         |
| 2800.00               | 2800.00   | 2800.00            | 2800.00   | 6.15                         | 6.15         | -0.23         | 50.00                          | -0.20      | 50.00                          | 37.69                        | 4.06   |         |
| 2900.00               | 2900.00   | 2900.00            | 2900.00   | 6.38                         | 6.38         | -0.23         | 50.00                          | -0.20      | 50.00                          | 37.24                        | 3.92   |         |
| 3000.00               | 3000.00   | 3000.00            | 3000.00   | 6.60                         | 6.60         | -0.23         | 50.00                          | -0.20      | 50.00                          | 36.80                        | 3.79   |         |
| 3100.00               | 3100.00   | 3100.00            | 3100.00   | 6.83                         | 6.83         | -0.23         | 50.00                          | -0.20      | 50.00                          | 36.35                        | 3.66   |         |
| 3200.00               | 3200.00   | 3200.00            | 3200.00   | 7.05                         | 7.05         | -0.23         | 50.00                          | -0.20      | 50.00                          | 35.90                        | 3.55   |         |
| 3300.00               | 3300.00   | 3300.00            | 3300.00   | 7.28                         | 7.28         | -0.23         | 50.00                          | -0.20      | 50.00                          | 35.45                        | 3.44   |         |
| 3400.00               | 3400.00   | 3400.00            | 3400.00   | 7.50                         | 7.50         | -0.23         | 50.00                          | -0.20      | 50.00                          | 35.00                        | 3.33   |         |
| 3500.00               | 3500.00   | 3500.00            | 3500.00   | 7.73                         | 7.73         | -0.23         | 50.00                          | -0.20      | 50.00                          | 34.55                        | 3.24   |         |



# Weatherford Anticollision Report



Company: Devon Energy  
Field: Eddy Co., NM (NAD 83)  
Reference Site: Cotton Draw Unit #165H  
Reference Well: CDU #165H  
Reference Wellpath:

Date: 10/26/2012 Time: 09:11:23 Page: 2  
Co-ordinate(NE) Reference: Well. CDU #165H, Grnd North  
Vertical (TVD) Reference: SITE 3542 0  
Db: Sybase

Site: Cotton Draw Unit #166H  
Well: CDU #166H  
Wellpath: 1 V0 Plan: Plan #1 V1

Inter-Site Error: 0 00 ft

| Reference |         | Offset  |         | Semi-Major Axis |        |        | Offset Location |       | Ctr-Ctr Edge |          | Separation | Warning |
|-----------|---------|---------|---------|-----------------|--------|--------|-----------------|-------|--------------|----------|------------|---------|
| MD        | TVD     | MD      | TVD     | Ref             | Offset | TFO-HS | North           | East  | Distance     | Distance | Factor     |         |
| ft        | ft      | ft      | ft      | ft              | ft     | deg    | ft              | ft    | ft           | ft       |            |         |
| 3600 00   | 3600 00 | 3600.00 | 3600.00 | 7.95            | 7.95   | -0.23  | 50.00           | -0.20 | 50.00        | 34.10    | 3.14       |         |
| 3700 00   | 3700 00 | 3700.00 | 3700.00 | 8.18            | 8.18   | -0.23  | 50.00           | -0.20 | 50.00        | 33.65    | 3.06       |         |
| 3800 00   | 3800 00 | 3800.00 | 3800.00 | 8.40            | 8.40   | -0.23  | 50.00           | -0.20 | 50.00        | 33.20    | 2.98       |         |
| 3900 00   | 3900 00 | 3900.00 | 3900.00 | 8.63            | 8.63   | -0.23  | 50.00           | -0.20 | 50.00        | 32.75    | 2.90       |         |
| 4000 00   | 4000 00 | 4000.00 | 4000.00 | 8.85            | 8.85   | -0.23  | 50.00           | -0.20 | 50.00        | 32.30    | 2.82       |         |
| 4100 00   | 4100 00 | 4100.00 | 4100.00 | 9.07            | 9.07   | -0.23  | 50.00           | -0.20 | 50.00        | 31.85    | 2.75       |         |
| 4200 00   | 4200 00 | 4200.00 | 4200.00 | 9.30            | 9.30   | -0.23  | 50.00           | -0.20 | 50.00        | 31.40    | 2.69       |         |
| 4300 00   | 4300 00 | 4300.00 | 4300.00 | 9.52            | 9.52   | -0.23  | 50.00           | -0.20 | 50.00        | 30.95    | 2.62       |         |
| 4400 00   | 4400 00 | 4400.00 | 4400.00 | 9.75            | 9.75   | -0.23  | 50.00           | -0.20 | 50.00        | 30.50    | 2.56       |         |
| 4500 00   | 4500 00 | 4500.00 | 4500.00 | 9.97            | 9.97   | -0.23  | 50.00           | -0.20 | 50.00        | 30.05    | 2.51       |         |
| 4600 00   | 4600 00 | 4600.00 | 4600.00 | 10.20           | 10.20  | -0.23  | 50.00           | -0.20 | 50.00        | 29.60    | 2.45       |         |
| 4700 00   | 4700 00 | 4700.00 | 4700.00 | 10.42           | 10.42  | -0.23  | 50.00           | -0.20 | 50.00        | 29.15    | 2.40       |         |
| 4800 00   | 4800 00 | 4800.00 | 4800.00 | 10.65           | 10.65  | -0.23  | 50.00           | -0.20 | 50.00        | 28.70    | 2.35       |         |
| 4900 00   | 4900 00 | 4900.00 | 4900.00 | 10.87           | 10.87  | -0.23  | 50.00           | -0.20 | 50.00        | 28.25    | 2.30       |         |
| 5000 00   | 5000 00 | 5000.00 | 5000.00 | 11.10           | 11.10  | -0.23  | 50.00           | -0.20 | 50.00        | 27.80    | 2.25       |         |
| 5100 00   | 5100 00 | 5100.00 | 5100.00 | 11.32           | 11.32  | -0.23  | 50.00           | -0.20 | 50.00        | 27.36    | 2.21       |         |
| 5200 00   | 5200 00 | 5200.00 | 5200.00 | 11.55           | 11.55  | -0.23  | 50.00           | -0.20 | 50.00        | 26.91    | 2.17       |         |
| 5300 00   | 5300 00 | 5300.00 | 5300.00 | 11.77           | 11.77  | -0.23  | 50.00           | -0.20 | 50.00        | 26.46    | 2.12       |         |
| 5400 00   | 5400 00 | 5400.00 | 5400.00 | 12.00           | 12.00  | -0.23  | 50.00           | -0.20 | 50.00        | 26.01    | 2.08       |         |
| 5500 00   | 5500 00 | 5500.00 | 5500.00 | 12.22           | 12.22  | -0.23  | 50.00           | -0.20 | 50.00        | 25.56    | 2.05       |         |
| 5600 00   | 5600 00 | 5600.00 | 5600.00 | 12.45           | 12.45  | -0.23  | 50.00           | -0.20 | 50.00        | 25.11    | 2.01       |         |
| 5700 00   | 5699.95 | 5699.95 | 5699.95 | 12.67           | 12.67  | 179.02 | 50.00           | -0.20 | 52.62        | 27.29    | 2.08       |         |
| 5766 67   | 5766.46 | 5766.46 | 5766.46 | 12.82           | 12.82  | 179.10 | 50.00           | -0.20 | 57.27        | 31.67    | 2.24       |         |
| 5800 00   | 5799.66 | 5799.66 | 5799.66 | 12.90           | 12.90  | 179.14 | 50.00           | -0.20 | 60.17        | 34.42    | 2.34       |         |
| 5900 00   | 5899.28 | 5899.28 | 5899.28 | 13.13           | 13.12  | 179.25 | 50.00           | -0.20 | 68.89        | 42.69    | 2.63       |         |
| 5966 67   | 5965.69 | 5965.69 | 5965.69 | 13.29           | 13.27  | 179.31 | 50.00           | -0.20 | 74.70        | 48.20    | 2.82       |         |
| 6000 00   | 5998.91 | 5998.91 | 5998.91 | 13.35           | 13.34  | 179.33 | 50.00           | -0.20 | 77.46        | 50.81    | 2.91       |         |
| 6100 00   | 6098.70 | 6098.70 | 6098.70 | 13.52           | 13.57  | 179.39 | 50.00           | -0.20 | 84.00        | 56.94    | 3.10       |         |
| 6200 00   | 6198.62 | 6198.62 | 6198.62 | 13.69           | 13.79  | 179.41 | 50.00           | -0.20 | 87.92        | 60.46    | 3.20       |         |
| 6300 00   | 6298.60 | 6298.60 | 6298.60 | 13.86           | 14.02  | 0.22   | 50.00           | -0.20 | 89.23        | 61.38    | 3.20       |         |
| 6400 00   | 6398.60 | 6398.60 | 6398.60 | 14.06           | 14.24  | 0.22   | 50.00           | -0.20 | 89.23        | 60.95    | 3.16       |         |
| 6500 00   | 6498.60 | 6498.60 | 6498.60 | 14.28           | 14.47  | 0.22   | 50.00           | -0.20 | 89.23        | 60.50    | 3.11       |         |
| 6600 00   | 6598.60 | 6598.60 | 6598.60 | 14.51           | 14.69  | 0.22   | 50.00           | -0.20 | 89.23        | 60.05    | 3.06       |         |
| 6700 00   | 6698.60 | 6698.60 | 6698.60 | 14.73           | 14.92  | 0.22   | 50.00           | -0.20 | 89.23        | 59.60    | 3.01       |         |
| 6800 00   | 6798.60 | 6798.60 | 6798.60 | 14.96           | 15.14  | 0.22   | 50.00           | -0.20 | 89.23        | 59.16    | 2.97       |         |
| 6900 00   | 6898.60 | 6898.60 | 6898.60 | 15.18           | 15.37  | 0.22   | 50.00           | -0.20 | 89.23        | 58.71    | 2.92       |         |
| 7000 00   | 6998.60 | 6998.60 | 6998.60 | 15.40           | 15.59  | 0.22   | 50.00           | -0.20 | 89.23        | 58.26    | 2.88       |         |
| 7100 00   | 7098.60 | 7098.60 | 7098.60 | 15.63           | 15.81  | 0.22   | 50.00           | -0.20 | 89.23        | 57.81    | 2.84       |         |
| 7200 00   | 7198.60 | 7198.60 | 7198.60 | 15.85           | 16.04  | 0.22   | 50.00           | -0.20 | 89.23        | 57.36    | 2.80       |         |
| 7300 00   | 7298.60 | 7298.60 | 7298.60 | 16.08           | 16.26  | 0.22   | 50.00           | -0.20 | 89.23        | 56.91    | 2.76       |         |
| 7400 00   | 7398.60 | 7398.60 | 7398.60 | 16.30           | 16.49  | 0.22   | 50.00           | -0.20 | 89.23        | 56.46    | 2.72       |         |
| 7500 00   | 7498.60 | 7498.60 | 7498.60 | 16.53           | 16.71  | 0.22   | 50.00           | -0.20 | 89.23        | 56.01    | 2.69       |         |
| 7600 00   | 7598.60 | 7598.60 | 7598.60 | 16.75           | 16.94  | 0.22   | 50.00           | -0.20 | 89.23        | 55.56    | 2.65       |         |
| 7700 00   | 7698.60 | 7698.60 | 7698.60 | 16.98           | 17.16  | 0.22   | 50.00           | -0.20 | 89.23        | 55.11    | 2.62       |         |
| 7788.44   | 7787.04 | 7787.04 | 7787.04 | 17.17           | 17.36  | 0.22   | 50.00           | -0.20 | 89.23        | 54.71    | 2.59       |         |
| 7800 00   | 7798.60 | 7797.04 | 7797.04 | 17.20           | 17.38  | 179.42 | 50.09           | -0.20 | 89.45        | 54.89    | 2.59       |         |
| 7850 00   | 7848.49 | 7839.80 | 7839.72 | 17.32           | 17.48  | 179.39 | 52.43           | -0.26 | 95.36        | 60.72    | 2.75       |         |
| 7900 00   | 7897.90 | 7880.59 | 7880.17 | 17.44           | 17.57  | 179.32 | 57.62           | -0.40 | 109.12       | 74.55    | 3.16       |         |
| 7950 00   | 7946.47 | 7918.11 | 7916.97 | 17.56           | 17.65  | 179.24 | 64.92           | -0.59 | 130.16       | 95.81    | 3.79       |         |
| 8000 00   | 7993.83 | 7951.46 | 7949.21 | 17.70           | 17.72  | 179.15 | 73.42           | -0.82 | 157.71       | 123.70   | 4.64       |         |
| 8050 00   | 8039.61 | 7980.16 | 7976.52 | 17.84           | 17.78  | 179.06 | 82.23           | -1.05 | 190.85       | 157.30   | 5.69       |         |



# Weatherford Anticollision Report



Company: Devon Energy Date: 10/26/2012 Time: 09:11:23 Page: 3  
Field: Eddy Co., NM (NAD 83)  
Reference Site: Cotton Draw Unit #165H Co-ordinate(NE) Reference: Well: CDU #165H, Grid North  
Reference Well: CDU #165H Vertical (TVD) Reference: SITE 3542 0  
Reference Wellpath: Db: Sybase

Site: Cotton Draw Unit #166H  
Well: CDU #166H  
Wellpath: 1 V0 Plan: Plan #1 V1

Inter-Site Error: 0 00 ft

| Reference |         | Offset  |         | Semi-Major Axis |        |        | Offset Location |       | Ctr-Ctr Edge |          | Separation | Warning |
|-----------|---------|---------|---------|-----------------|--------|--------|-----------------|-------|--------------|----------|------------|---------|
| MD        | TVD     | MD      | TVD     | Ref             | Offset | TFO-HS | North           | East  | Distance     | Distance | Factor     |         |
| ft        | ft      | ft      | ft      | ft              | ft     | deg    | ft              | ft    | ft           | ft       |            |         |
| 8100.00   | 8083.48 | 8004 09 | 7998.94 | 17.99           | 17.83  | 178.95 | 90.61           | -1.27 | 228.67       | 195.64   | 6.92       |         |
| 8150.00   | 8125.08 | 8023 41 | 8016.76 | 18.17           | 17.88  | 178.80 | 98.05           | -1.46 | 270.27       | 237.84   | 8.33       |         |
| 8200.00   | 8164.11 | 8038.41 | 8030 43 | 18.36           | 17.91  | 178.60 | 104.24          | -1.63 | 314.82       | 283.02   | 9.90       |         |
| 8250.00   | 8200.28 | 8050.00 | 8040 87 | 18.57           | 17.93  | 178.28 | 109.27          | -1.76 | 361.59       | 330.44   | 11.61      |         |
| 8300.00   | 8233.30 | 8057 11 | 8047 22 | 18.81           | 17.95  | 177.67 | 112.46          | -1.84 | 409.93       | 379.45   | 13.45      |         |
| 8350.00   | 8262.92 | 8061.62 | 8051 23 | 19.09           | 17.96  | 176.08 | 114.52          | -1.90 | 459.29       | 429.44   | 15.39      |         |
| 8400.00   | 8288.92 | 8063.42 | 8052.83 | 19.39           | 17.97  | 161.89 | 115.35          | -1.92 | 509.16       | 479.18   | 16.98      |         |
| 8450.00   | 8311.10 | 8062.86 | 8052.33 | 19.72           | 17.96  | 5.55   | 115.09          | -1.91 | 559.13       | 530.43   | 19.49      |         |
| 8500.00   | 8329.29 | 8060.23 | 8050.00 | 20.09           | 17.96  | 2.22   | 113.88          | -1.88 | 608.83       | 580.71   | 21.65      |         |
| 8550.00   | 8343.36 | 8050.00 | 8040.87 | 20.49           | 17.93  | 1.23   | 109.27          | -1.76 | 657.99       | 630.24   | 23.71      |         |
| 8600.00   | 8353.19 | 8050.00 | 8040.87 | 20.92           | 17.93  | 0.89   | 109.27          | -1.76 | 706.17       | 678.73   | 25.74      |         |
| 8650.00   | 8358.71 | 8050.00 | 8040.87 | 21.37           | 17.93  | 0.70   | 109.27          | -1.76 | 753.36       | 726.10   | 27.64      |         |
| 8688.44   | 8360.00 | 8035.99 | 8028.23 | 21.74           | 17.90  | 0.53   | 103.22          | -1.60 | 788.57       | 761.25   | 28.86      |         |
| 8700.00   | 8360.00 | 8033.96 | 8026.38 | 21.85           | 17.90  | 0.52   | 102.37          | -1.58 | 799.07       | 771.71   | 29.20      |         |
| 8800.00   | 8360.00 | 8017.61 | 8011.43 | 22.88           | 17.86  | 0.45   | 95.75           | -1.40 | 890.53       | 862.80   | 32.11      |         |
| 8900.00   | 8360.00 | 8000.00 | 7995.13 | 24.00           | 17.82  | 0.39   | 89.11           | -1.23 | 983.06       | 954.91   | 34.92      |         |
| 9000.00   | 8360.00 | 8000.00 | 7995.13 | 25.21           | 17.82  | 0.39   | 89.11           | -1.23 | 1076.56      | 1048.07  | 37.79      |         |
| 9100.00   | 8360.00 | 7978.98 | 7975.41 | 26.48           | 17.78  | 0.33   | 81.84           | -1.04 | 1170.56      | 1141.59  | 40.41      |         |
| 9200.00   | 8360.00 | 7968.74 | 7965.71 | 27.82           | 17.76  | 0.30   | 78.56           | -0.95 | 1265.30      | 1235.87  | 43.00      |         |
| 9300.00   | 8360.00 | 7950.00 | 7947.81 | 29.21           | 17.72  | 0.25   | 73.01           | -0.81 | 1360.68      | 1330.73  | 45.43      |         |
| 9400.00   | 8360.00 | 7950.00 | 7947.81 | 30.64           | 17.72  | 0.25   | 73.01           | -0.81 | 1456.30      | 1425.88  | 47.88      |         |
| 9500.00   | 8360.00 | 7950.00 | 7947.81 | 32.12           | 17.72  | 0.25   | 73.01           | -0.81 | 1552.47      | 1521.57  | 50.24      |         |
| 9600.00   | 8360.00 | 7950.00 | 7947.81 | 33.63           | 17.72  | 0.25   | 73.01           | -0.81 | 1649.09      | 1617.68  | 52.51      |         |
| 9700.00   | 8360.00 | 7930.19 | 7928.71 | 35.16           | 17.67  | 0.22   | 67.78           | -0.67 | 1745.64      | 1713.65  | 54.56      |         |
| 9800.00   | 8360.00 | 7924.33 | 7923.02 | 36.73           | 17.66  | 0.20   | 66.36           | -0.63 | 1842.67      | 1810.11  | 56.60      |         |
| 9900.00   | 8360.00 | 7918.92 | 7917.76 | 38.31           | 17.65  | 0.20   | 65.10           | -0.60 | 1939.93      | 1906.80  | 58.55      |         |
| 10000.00  | 8360.00 | 7900.00 | 7899.27 | 39.92           | 17.61  | 0.17   | 61.09           | -0.49 | 2037.61      | 2003.85  | 60.35      |         |
| 10100.00  | 8360.00 | 7900.00 | 7899.27 | 41.54           | 17.61  | 0.17   | 61.09           | -0.49 | 2135.14      | 2100.79  | 62.16      |         |
| 10200.00  | 8360.00 | 7900.00 | 7899.27 | 43.18           | 17.61  | 0.17   | 61.09           | -0.49 | 2232.89      | 2197.94  | 63.90      |         |
| 10300.00  | 8360.00 | 7900.00 | 7899.27 | 44.84           | 17.61  | 0.17   | 61.09           | -0.49 | 2330.83      | 2295.28  | 65.57      |         |
| 10400.00  | 8360.00 | 7900.00 | 7899.27 | 46.50           | 17.61  | 0.17   | 61.09           | -0.49 | 2428.93      | 2392.77  | 67.16      |         |
| 10500.00  | 8360.00 | 7900.00 | 7899.27 | 48.18           | 17.61  | 0.17   | 61.09           | -0.49 | 2527.19      | 2490.40  | 68.70      |         |
| 10600.00  | 8360.00 | 7900.00 | 7899.27 | 49.87           | 17.61  | 0.17   | 61.09           | -0.49 | 2625.58      | 2588.16  | 70.17      |         |
| 10700.00  | 8360.00 | 7900.00 | 7899.27 | 51.57           | 17.61  | 0.17   | 61.09           | -0.49 | 2724.08      | 2686.03  | 71.58      |         |
| 10800.00  | 8360.00 | 7900.00 | 7899.27 | 53.27           | 17.61  | 0.17   | 61.09           | -0.49 | 2822.69      | 2783.99  | 72.94      |         |
| 10900.00  | 8360.00 | 7900.00 | 7899.27 | 54.99           | 17.61  | 0.17   | 61.09           | -0.49 | 2921.40      | 2882.05  | 74.24      |         |
| 11000.00  | 8360.00 | 7878.87 | 7878.48 | 56.70           | 17.56  | 0.14   | 57.34           | -0.39 | 3019.72      | 2979.69  | 75.44      |         |
| 11100.00  | 8360.00 | 7876.39 | 7876.03 | 58.43           | 17.56  | 0.14   | 56.95           | -0.38 | 3118.48      | 3077.79  | 76.64      |         |
| 11200.00  | 8360.00 | 7874.05 | 7873.71 | 60.16           | 17.55  | 0.14   | 56.59           | -0.37 | 3217.30      | 3175.94  | 77.79      |         |
| 11300.00  | 8360.00 | 7871.82 | 7871.51 | 61.90           | 17.55  | 0.14   | 56.26           | -0.36 | 3316.18      | 3274.15  | 78.91      |         |
| 11400.00  | 8360.00 | 7850.00 | 7849.87 | 63.64           | 17.50  | 0.12   | 53.45           | -0.29 | 3415.51      | 3372.79  | 79.95      |         |
| 11500.00  | 8360.00 | 7850.00 | 7849.87 | 65.38           | 17.50  | 0.12   | 53.45           | -0.29 | 3514.42      | 3471.02  | 80.98      |         |
| 11600.00  | 8360.00 | 7850.00 | 7849.87 | 67.13           | 17.50  | 0.12   | 53.45           | -0.29 | 3613.39      | 3569.31  | 81.98      |         |
| 11700.00  | 8360.00 | 7850.00 | 7849.87 | 68.89           | 17.50  | 0.12   | 53.45           | -0.29 | 3712.41      | 3667.66  | 82.95      |         |
| 11800.00  | 8360.00 | 7850.00 | 7849.87 | 70.64           | 17.50  | 0.12   | 53.45           | -0.29 | 3811.49      | 3766.05  | 83.88      |         |
| 11900.00  | 8360.00 | 7850.00 | 7849.87 | 72.40           | 17.50  | 0.12   | 53.45           | -0.29 | 3910.61      | 3864.49  | 84.78      |         |
| 12000.00  | 8360.00 | 7850.00 | 7849.87 | 74.17           | 17.50  | 0.12   | 53.45           | -0.29 | 4009.78      | 3962.97  | 85.66      |         |
| 12100.00  | 8360.00 | 7850.00 | 7849.87 | 75.93           | 17.50  | 0.12   | 53.45           | -0.29 | 4108.99      | 4061.49  | 86.50      |         |
| 12200.00  | 8360.00 | 7850.00 | 7849.87 | 77.70           | 17.50  | 0.12   | 53.45           | -0.29 | 4208.23      | 4160.04  | 87.32      |         |
| 12300.00  | 8360.00 | 7850.00 | 7849.87 | 79.47           | 17.50  | 0.12   | 53.45           | -0.29 | 4307.51      | 4258.62  | 88.11      |         |
| 12400.00  | 8360.00 | 7850.00 | 7849.87 | 81.25           | 17.50  | 0.12   | 53.45           | -0.29 | 4406.82      | 4357.24  | 88.87      |         |



# Weatherford Anticollision Report



Company: Devon Energy Date: 10/26/2012 Time: 09:11 23 Page: 4  
Field: Eddy Co., NM (NAD 83)  
Reference Site: Cotton Draw Unit #165H Co-ordinate(NE) Reference: Well. CDU #165H, Grid North  
Reference Well: CDU #165H Vertical (TVD) Reference: SITE 3542.0  
Reference Wellpath#: Db: Sybase

Site: Cotton Draw Unit #166H

Well: CDU #166H

Wellpath: 1 V0 Plan: Plan #1 V1

Inter-Site Error: 0 00 ft

| Reference |         | Offset  |         | Semi-Major Axis |        |        | Offset Location |       | Ctr-Ctr Edge |          | Separation | Warning |
|-----------|---------|---------|---------|-----------------|--------|--------|-----------------|-------|--------------|----------|------------|---------|
| MD        | TVD     | MD      | TVD     | Ref             | Offset | TFO-HS | North           | East  | Distance     | Distance | Factor     |         |
| ft        | ft      | ft      | ft      | ft              | ft     | deg    | ft              | ft    | ft           | ft       |            |         |
| 12500.00  | 8360 00 | 7850 00 | 7849 87 | 83.02           | 17.50  | 0.12   | 53.45           | -0.29 | 4506 17      | 4455.88  | 89.62      |         |
| 12600.00  | 8360.00 | 7850.00 | 7849 87 | 84 80           | 17.50  | 0.12   | 53.45           | -0.29 | 4605 54      | 4554.56  | 90 34      |         |
| 12700 00  | 8360 00 | 7850 00 | 7849 87 | 86.58           | 17.50  | 0 12   | 53.45           | -0.29 | 4704 94      | 4653.25  | 91.04      |         |
| 12800.00  | 8360.00 | 7850 00 | 7849 87 | 88.36           | 17.50  | 0.12   | 53.45           | -0 29 | 4804.36      | 4751.98  | 91.72      |         |
| 12900 00  | 8360 00 | 7850.00 | 7849.87 | 90.14           | 17.50  | 0 12   | 53 45           | -0.29 | 4903.80      | 4850 72  | 92 37      |         |
| 12989 43  | 8360.00 | 7850.00 | 7849.87 | 91.73           | 17 50  | 0.12   | 53 45           | -0 29 | 4992.76      | 4939 04  | 92.95      |         |

**Weatherford®****Weatherford Drilling Services**

GeoDec v5.03

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Report Date: October 26, 2012  
Job Number: \_\_\_\_\_  
Customer: Devon Energy  
Well Name: Cotton Draw Unit #165H  
API Number: \_\_\_\_\_  
Rig Name: \_\_\_\_\_  
Location: Eddy Co., NM  
Block: \_\_\_\_\_  
Engineer: RWJ

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|                                              |                                             |
|----------------------------------------------|---------------------------------------------|
| 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 430115.800 USFT                  | Latitude 32.1810210 DEG                     |
| East/West 728391.500 USFT                    | Longitude -103.7287241 DEG                  |
| Grid Convergence: .32°                       |                                             |
| Total Correction: +7.10°                     |                                             |

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|                         |              |                        |
|-------------------------|--------------|------------------------|
| Geodetic Location WGS84 | Elevation =  | 0.0 Meters             |
| Latitude =              | 32.18102° N  | 32° 10 min 51.676 sec  |
| Longitude =             | 103.72872° W | 103° 43 min 43.407 sec |

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|                        |              |                              |
|------------------------|--------------|------------------------------|
| Magnetic Declination = | 7.42°        | [True North Offset]          |
| Local Gravity =        | .9988 g      | Checksum = 6501              |
| Local Field Strength = | 48403 nT     | Magnetic Vector X = 23946 nT |
| Magnetic Dip =         | 60.07°       | Magnetic Vector Y = 3119 nT  |
| Magnetic Model =       | IGRF-2010g11 | Magnetic Vector Z = 41949 nT |
| Spud Date =            | May 15, 2013 | Magnetic Vector H = 24148 nT |

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Signed: \_\_\_\_\_

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