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**devon**

## **Devon Energy Production Co, LP**

Lea Co., New Mexico (Nad 83)

Tin Cup 35 State Com 2H

Tin Cup 35 State Com 2H

Lateral #1

Plan: Design #1

## **Standard Planning Report**

20 October, 2011

DEC 06 2011



# CUDD Drilling and Measurement Planning Report

Database: EDM 5000 1 Single User Db  
Company: Devon Energy Production Co, LP  
Project: Lea Co., New Mexico (Nad 83)  
Site: Tin Cup 35 State Com 2H  
Well: Tin Cup 35 State Com 2H  
Wellbore: Lateral #1  
Design: Design #1

Local Co-ordinate Reference: Site Tin Cup 35 State Com 2H  
TVD Reference: WELL @ 4000 00ft (Original Well Elev)  
MD Reference: WELL @ 4000 00ft (Original Well Elev)  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature

Project: Lea Co., New Mexico (Nad 83)  
Map System: US State Plane 1983  
Geo Datum: North American Datum 1983  
Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

Site: Tin Cup 35 State Com 2H, Sec 36, T-18S, R-34E

Site Position: Northing: 621,406.57 usft Latitude: 32° 42' 20.323 N  
From: Map Easting: 791,772.14 usft Longitude: 103° 31' 8.986 W  
Position Uncertainty: 0.00 ft Slot Radius: 13-3/16" Grid Convergence: 0.44 °

Well: Tin Cup 35 State Com 2H

Well Position: +N/-S 0.00 ft Northing: 621,406.57 usft Latitude: 32° 42' 20.323 N  
+E/-W 0.00 ft Easting: 791,772.14 usft Longitude: 103° 31' 8.986 W  
Position Uncertainty: 0.00 ft Wellhead Elevation: 4,000.00 ft Ground Level: 3,990.00 ft

Wellbore: Lateral #1

| Magnetics: | Model Name | Sample Date | Declination<br>(°) | Dip Angle<br>(°) | Field Strength<br>(nT) |
|------------|------------|-------------|--------------------|------------------|------------------------|
|            | IGRF2010   | 10/20/2011  | 7.55               | 60.63            | 48,874                 |

Design: Design #1

## Audit Notes:

Version: Phase: PLAN Tie On Depth: 0.00

| Vertical Section: | Depth From (TVD)<br>(ft) | +N/-S<br>(ft) | +E/-W<br>(ft) | Direction<br>(°) |
|-------------------|--------------------------|---------------|---------------|------------------|
|                   | 0.00                     | 0.00          | 0.00          | 270.94           |

## Plan Sections

| Measured<br>Depth<br>(ft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(ft) | +N/-S<br>(ft) | +E/-W<br>(ft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) | TFO<br>(%) | Target            |
|---------------------------|--------------------|----------------|---------------------------|---------------|---------------|-------------------------------|------------------------------|-----------------------------|------------|-------------------|
| 0.00                      | 0.00               | 0.00           | 0.00                      | 0.00          | 0.00          | 0.00                          | 0.00                         | 0.00                        | 0.00       |                   |
| 9,352.01                  | 0.00               | 0.00           | 9,352.01                  | 0.00          | 0.00          | 0.00                          | 0.00                         | 0.00                        | 0.00       |                   |
| 10,257.02                 | 90.50              | 270.94         | 9,924.95                  | 9.53          | -577.88       | 10.00                         | 10.00                        | 0.00                        | 270.94     |                   |
| 15,627.01                 | 90.50              | 270.94         | 9,878.09                  | 98.05         | -5,946.94     | 0.00                          | 0.00                         | 0.00                        | 0.00       | PBHL - TD (TC35S) |



# CUDD Drilling and Measurement Planning Report

|                  |                                |                                     |                                       |
|------------------|--------------------------------|-------------------------------------|---------------------------------------|
| <b>Database:</b> | EDM 5000.1 Single User Db      | <b>Local Co-ordinate Reference:</b> | Site Tin Cup 35 State Com 2H          |
| <b>Company:</b>  | Devon Energy Production Co, LP | <b>TVD Reference:</b>               | WELL @ 4000.00ft (Original Well Elev) |
| <b>Project:</b>  | Lea Co , New Mexico (Nad 83)   | <b>MD Reference:</b>                | WELL @ 4000.00ft (Original Well Elev) |
| <b>Site:</b>     | Tin Cup 35 State Com 2H        | <b>North Reference:</b>             | Grid                                  |
| <b>Well:</b>     | Tin Cup 35 State Com 2H        | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Wellbore:</b> | Lateral #1                     |                                     |                                       |
| <b>Design:</b>   | Design #1                      |                                     |                                       |

## Planned Survey

| Measured<br>Depth<br>(ft)              | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(ft) | +N/-S<br>(ft) | +E/-W<br>(ft) | Vertical<br>Section<br>(ft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) |
|----------------------------------------|--------------------|----------------|---------------------------|---------------|---------------|-----------------------------|-------------------------------|------------------------------|-----------------------------|
| 9,352.01                               | 0.00               | 0.00           | 9,352.01                  | 0.00          | 0.00          | 0.00                        | 0.00                          | 0.00                         | 0.00                        |
| <b>KOP: Build 10°/100'</b>             |                    |                |                           |               |               |                             |                               |                              |                             |
| 9,400.00                               | 4.80               | 270.94         | 9,399.94                  | 0.03          | -2.01         | 2.01                        | 10.00                         | 10.00                        | 0.00                        |
| 9,450.00                               | 9.80               | 270.94         | 9,449.52                  | 0.14          | -8.36         | 8.36                        | 10.00                         | 10.00                        | 0.00                        |
| 9,500.00                               | 14.80              | 270.94         | 9,498.36                  | 0.31          | -19.00        | 19.01                       | 10.00                         | 10.00                        | 0.00                        |
| 9,522.28                               | 17.03              | 270.94         | 9,519.78                  | 0.41          | -25.11        | 25.11                       | 10.00                         | 10.00                        | 0.00                        |
| <b>2ND BONE SPRING LM</b>              |                    |                |                           |               |               |                             |                               |                              |                             |
| 9,550.00                               | 19.80              | 270.94         | 9,546.08                  | 0.56          | -33.86        | 33.87                       | 10.00                         | 10.00                        | 0.00                        |
| 9,600.00                               | 24.80              | 270.94         | 9,592.33                  | 0.87          | -52.83        | 52.83                       | 10.00                         | 10.00                        | 0.00                        |
| 9,650.00                               | 29.80              | 270.94         | 9,636.75                  | 1.25          | -75.75        | 75.76                       | 10.00                         | 10.00                        | 0.00                        |
| 9,700.00                               | 34.80              | 270.94         | 9,679.00                  | 1.69          | -102.45       | 102.47                      | 10.00                         | 10.00                        | 0.00                        |
| 9,750.00                               | 39.80              | 270.94         | 9,718.76                  | 2.19          | -132.74       | 132.75                      | 10.00                         | 10.00                        | 0.00                        |
| 9,800.00                               | 44.80              | 270.94         | 9,755.73                  | 2.74          | -166.37       | 166.39                      | 10.00                         | 10.00                        | 0.00                        |
| 9,850.00                               | 49.80              | 270.94         | 9,789.63                  | 3.35          | -203.10       | 203.13                      | 10.00                         | 10.00                        | 0.00                        |
| 9,900.00                               | 54.80              | 270.94         | 9,820.20                  | 4.00          | -242.64       | 242.67                      | 10.00                         | 10.00                        | 0.00                        |
| 9,950.00                               | 59.80              | 270.94         | 9,847.20                  | 4.69          | -284.70       | 284.74                      | 10.00                         | 10.00                        | 0.00                        |
| 9,960.57                               | 60.86              | 270.94         | 9,852.44                  | 4.85          | -293.88       | 293.92                      | 10.00                         | 10.00                        | 0.00                        |
| <b>2ND BONE SPRING SS</b>              |                    |                |                           |               |               |                             |                               |                              |                             |
| 10,000.00                              | 64.80              | 270.94         | 9,870.44                  | 5.42          | -328.95       | 328.99                      | 10.00                         | 10.00                        | 0.00                        |
| 10,050.00                              | 69.80              | 270.94         | 9,889.73                  | 6.18          | -375.05       | 375.10                      | 10.00                         | 10.00                        | 0.00                        |
| 10,100.00                              | 74.80              | 270.94         | 9,904.93                  | 6.97          | -422.66       | 422.72                      | 10.00                         | 10.00                        | 0.00                        |
| 10,150.00                              | 79.80              | 270.94         | 9,915.92                  | 7.77          | -471.42       | 471.48                      | 10.00                         | 10.00                        | 0.00                        |
| 10,200.00                              | 84.80              | 270.94         | 9,922.61                  | 8.59          | -520.94       | 521.01                      | 10.00                         | 10.00                        | 0.00                        |
| 10,250.00                              | 89.80              | 270.94         | 9,924.97                  | 9.41          | -570.87       | 570.94                      | 10.00                         | 10.00                        | 0.00                        |
| 10,257.02                              | 90.50              | 270.94         | 9,924.95                  | 9.53          | -577.88       | 577.96                      | 9.99                          | 9.99                         | 0.00                        |
| <b>EOC: Hold I: 90.5° @ A: 270.94°</b> |                    |                |                           |               |               |                             |                               |                              |                             |
| 10,300.00                              | 90.50              | 270.94         | 9,924.58                  | 10.24         | -620.86       | 620.94                      | 0.00                          | 0.00                         | 0.00                        |
| 10,400.00                              | 90.50              | 270.94         | 9,923.70                  | 11.88         | -720.84       | 720.94                      | 0.00                          | 0.00                         | 0.00                        |
| 10,500.00                              | 90.50              | 270.94         | 9,922.83                  | 13.53         | -820.82       | 820.93                      | 0.00                          | 0.00                         | 0.00                        |
| 10,600.00                              | 90.50              | 270.94         | 9,921.96                  | 15.18         | -920.80       | 920.93                      | 0.00                          | 0.00                         | 0.00                        |
| 10,700.00                              | 90.50              | 270.94         | 9,921.09                  | 16.83         | -1,020.79     | 1,020.93                    | 0.00                          | 0.00                         | 0.00                        |
| 10,800.00                              | 90.50              | 270.94         | 9,920.21                  | 18.48         | -1,120.77     | 1,120.92                    | 0.00                          | 0.00                         | 0.00                        |
| 10,900.00                              | 90.50              | 270.94         | 9,919.34                  | 20.13         | -1,220.75     | 1,220.92                    | 0.00                          | 0.00                         | 0.00                        |
| 11,000.00                              | 90.50              | 270.94         | 9,918.47                  | 21.78         | -1,320.73     | 1,320.91                    | 0.00                          | 0.00                         | 0.00                        |
| 11,100.00                              | 90.50              | 270.94         | 9,917.60                  | 23.42         | -1,420.72     | 1,420.91                    | 0.00                          | 0.00                         | 0.00                        |
| 11,200.00                              | 90.50              | 270.94         | 9,916.72                  | 25.07         | -1,520.70     | 1,520.91                    | 0.00                          | 0.00                         | 0.00                        |
| 11,300.00                              | 90.50              | 270.94         | 9,915.85                  | 26.72         | -1,620.68     | 1,620.90                    | 0.00                          | 0.00                         | 0.00                        |
| 11,400.00                              | 90.50              | 270.94         | 9,914.98                  | 28.37         | -1,720.67     | 1,720.90                    | 0.00                          | 0.00                         | 0.00                        |
| 11,500.00                              | 90.50              | 270.94         | 9,914.10                  | 30.02         | -1,820.65     | 1,820.90                    | 0.00                          | 0.00                         | 0.00                        |
| 11,600.00                              | 90.50              | 270.94         | 9,913.23                  | 31.67         | -1,920.63     | 1,920.89                    | 0.00                          | 0.00                         | 0.00                        |
| 11,700.00                              | 90.50              | 270.94         | 9,912.36                  | 33.31         | -2,020.61     | 2,020.89                    | 0.00                          | 0.00                         | 0.00                        |
| 11,800.00                              | 90.50              | 270.94         | 9,911.49                  | 34.96         | -2,120.60     | 2,120.88                    | 0.00                          | 0.00                         | 0.00                        |
| 11,900.00                              | 90.50              | 270.94         | 9,910.61                  | 36.61         | -2,220.58     | 2,220.88                    | 0.00                          | 0.00                         | 0.00                        |
| 12,000.00                              | 90.50              | 270.94         | 9,909.74                  | 38.26         | -2,320.56     | 2,320.88                    | 0.00                          | 0.00                         | 0.00                        |
| 12,100.00                              | 90.50              | 270.94         | 9,908.87                  | 39.91         | -2,420.54     | 2,420.87                    | 0.00                          | 0.00                         | 0.00                        |
| 12,200.00                              | 90.50              | 270.94         | 9,908.00                  | 41.56         | -2,520.53     | 2,520.87                    | 0.00                          | 0.00                         | 0.00                        |
| 12,300.00                              | 90.50              | 270.94         | 9,907.12                  | 43.21         | -2,620.51     | 2,620.87                    | 0.00                          | 0.00                         | 0.00                        |
| 12,400.00                              | 90.50              | 270.94         | 9,906.25                  | 44.85         | -2,720.49     | 2,720.86                    | 0.00                          | 0.00                         | 0.00                        |
| 12,500.00                              | 90.50              | 270.94         | 9,905.38                  | 46.50         | -2,820.47     | 2,820.86                    | 0.00                          | 0.00                         | 0.00                        |
| 12,600.00                              | 90.50              | 270.94         | 9,904.51                  | 48.15         | -2,920.46     | 2,920.85                    | 0.00                          | 0.00                         | 0.00                        |
| 12,700.00                              | 90.50              | 270.94         | 9,903.63                  | 49.80         | -3,020.44     | 3,020.85                    | 0.00                          | 0.00                         | 0.00                        |
| 12,800.00                              | 90.50              | 270.94         | 9,902.76                  | 51.45         | -3,120.42     | 3,120.85                    | 0.00                          | 0.00                         | 0.00                        |
| 12,900.00                              | 90.50              | 270.94         | 9,901.89                  | 53.10         | -3,220.40     | 3,220.84                    | 0.00                          | 0.00                         | 0.00                        |



# CUDD Drilling and Measurement Planning Report

Database: EDM 5000.1 Single User Db  
Company: Devon Energy Production Co, LP  
Project: Lea Co , New Mexico (Nad 83)  
Site: Tin Cup 35 State Com 2H  
Well: Tin Cup 35 State Com 2H  
Wellbore: Lateral #1  
Design: Design #1

Local Co-ordinate Reference: Site Tin Cup 35 State Com 2H  
TVD Reference: WELL @ 4000.00ft (Original Well Elev)  
MD Reference: WELL @ 4000.00ft (Original Well Elev)  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature

## Planned Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-------------------------|------------------------|-----------------------|
| 13,000.00           | 90.50           | 270.94      | 9,901.01            | 54.74      | -3,320.39  | 3,320.84              | 0.00                    | 0.00                   | 0.00                  |
| 13,100.00           | 90.50           | 270.94      | 9,900.14            | 56.39      | -3,420.37  | 3,420.83              | 0.00                    | 0.00                   | 0.00                  |
| 13,200.00           | 90.50           | 270.94      | 9,899.27            | 58.04      | -3,520.35  | 3,520.83              | 0.00                    | 0.00                   | 0.00                  |
| 13,300.00           | 90.50           | 270.94      | 9,898.40            | 59.69      | -3,620.33  | 3,620.83              | 0.00                    | 0.00                   | 0.00                  |
| 13,400.00           | 90.50           | 270.94      | 9,897.52            | 61.34      | -3,720.32  | 3,720.82              | 0.00                    | 0.00                   | 0.00                  |
| 13,500.00           | 90.50           | 270.94      | 9,896.65            | 62.99      | -3,820.30  | 3,820.82              | 0.00                    | 0.00                   | 0.00                  |
| 13,600.00           | 90.50           | 270.94      | 9,895.78            | 64.64      | -3,920.28  | 3,920.82              | 0.00                    | 0.00                   | 0.00                  |
| 13,700.00           | 90.50           | 270.94      | 9,894.91            | 66.28      | -4,020.27  | 4,020.81              | 0.00                    | 0.00                   | 0.00                  |
| 13,800.00           | 90.50           | 270.94      | 9,894.03            | 67.93      | -4,120.25  | 4,120.81              | 0.00                    | 0.00                   | 0.00                  |
| 13,900.00           | 90.50           | 270.94      | 9,893.16            | 69.58      | -4,220.23  | 4,220.80              | 0.00                    | 0.00                   | 0.00                  |
| 14,000.00           | 90.50           | 270.94      | 9,892.29            | 71.23      | -4,320.21  | 4,320.80              | 0.00                    | 0.00                   | 0.00                  |
| 14,100.00           | 90.50           | 270.94      | 9,891.42            | 72.88      | -4,420.20  | 4,420.80              | 0.00                    | 0.00                   | 0.00                  |
| 14,200.00           | 90.50           | 270.94      | 9,890.54            | 74.53      | -4,520.18  | 4,520.79              | 0.00                    | 0.00                   | 0.00                  |
| 14,300.00           | 90.50           | 270.94      | 9,889.67            | 76.17      | -4,620.16  | 4,620.79              | 0.00                    | 0.00                   | 0.00                  |
| 14,400.00           | 90.50           | 270.94      | 9,888.80            | 77.82      | -4,720.14  | 4,720.79              | 0.00                    | 0.00                   | 0.00                  |
| 14,500.00           | 90.50           | 270.94      | 9,887.93            | 79.47      | -4,820.13  | 4,820.78              | 0.00                    | 0.00                   | 0.00                  |
| 14,600.00           | 90.50           | 270.94      | 9,887.05            | 81.12      | -4,920.11  | 4,920.78              | 0.00                    | 0.00                   | 0.00                  |
| 14,700.00           | 90.50           | 270.94      | 9,886.18            | 82.77      | -5,020.09  | 5,020.77              | 0.00                    | 0.00                   | 0.00                  |
| 14,800.00           | 90.50           | 270.94      | 9,885.31            | 84.42      | -5,120.07  | 5,120.77              | 0.00                    | 0.00                   | 0.00                  |
| 14,900.00           | 90.50           | 270.94      | 9,884.43            | 86.07      | -5,220.06  | 5,220.77              | 0.00                    | 0.00                   | 0.00                  |
| 15,000.00           | 90.50           | 270.94      | 9,883.56            | 87.71      | -5,320.04  | 5,320.76              | 0.00                    | 0.00                   | 0.00                  |
| 15,100.00           | 90.50           | 270.94      | 9,882.69            | 89.36      | -5,420.02  | 5,420.76              | 0.00                    | 0.00                   | 0.00                  |
| 15,200.00           | 90.50           | 270.94      | 9,881.82            | 91.01      | -5,520.00  | 5,520.75              | 0.00                    | 0.00                   | 0.00                  |
| 15,300.00           | 90.50           | 270.94      | 9,880.94            | 92.66      | -5,619.99  | 5,620.75              | 0.00                    | 0.00                   | 0.00                  |
| 15,400.00           | 90.50           | 270.94      | 9,880.07            | 94.31      | -5,719.97  | 5,720.75              | 0.00                    | 0.00                   | 0.00                  |
| 15,500.00           | 90.50           | 270.94      | 9,879.20            | 95.96      | -5,819.95  | 5,820.74              | 0.00                    | 0.00                   | 0.00                  |
| 15,600.00           | 90.50           | 270.94      | 9,878.33            | 97.60      | -5,919.93  | 5,920.74              | 0.00                    | 0.00                   | 0.00                  |
| 15,627.01           | 90.50           | 270.94      | 9,878.09            | 98.05      | -5,946.94  | 5,947.75              | 0.00                    | 0.00                   | 0.00                  |

## Design Targets

| Target Name         | Dip Angle (°) | Dip Dir (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (usft) | Easting (usft) | Latitude         | Longitude         |
|---------------------|---------------|-------------|----------|------------|------------|-----------------|----------------|------------------|-------------------|
| PBHL - TD (TC35SC2) | 0.00          | 0.00        | 9,878.09 | 98.05      | -5,946.94  | 621,504.62      | 785,825.21     | 32° 42' 21.740 N | 103° 32' 18.573 W |
| - hit/miss target   |               |             |          |            |            |                 |                |                  |                   |
| - Shape             |               |             |          |            |            |                 |                |                  |                   |
| - Point             |               |             |          |            |            |                 |                |                  |                   |



# CUDD Drilling and Measurement Planning Report

|                  |                                |                                     |                                       |
|------------------|--------------------------------|-------------------------------------|---------------------------------------|
| <b>Database:</b> | EDM 5000 1 Single User Db      | <b>Local Co-ordinate Reference:</b> | Site Tin Cup 35 State Com 2H          |
| <b>Company:</b>  | Devon Energy Production Co, LP | <b>TVD Reference:</b>               | WELL @ 4000.00ft (Original Well Elev) |
| <b>Project:</b>  | Lea Co , New Mexico (Nad 83)   | <b>MD Reference:</b>                | WELL @ 4000.00ft (Original Well Elev) |
| <b>Site:</b>     | Tin Cup 35 State Com 2H        | <b>North Reference:</b>             | Grid                                  |
| <b>Well:</b>     | Tin Cup 35 State Com 2H        | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Wellbore:</b> | Lateral #1                     |                                     |                                       |
| <b>Design:</b>   | Design #1                      |                                     |                                       |

## Formations

| Measured Depth (ft) | Vertical Depth (ft) | Name               | Lithology | Dip (°) | Dip Direction (°) |
|---------------------|---------------------|--------------------|-----------|---------|-------------------|
| 20.00               | 20.00               | QUATERNARY         |           | -0.50   | 270.94            |
| 1,890.00            | 1,890.00            | RUSTLER DOL        |           | -0.50   | 270.94            |
| 2,170.00            | 2,170.00            | SALADO SALT        |           | -0.50   | 270.94            |
| 3,450.00            | 3,450.00            | YATES SS           |           | -0.50   | 270.94            |
| 4,720.00            | 4,720.00            | QUEEN SS           |           | -0.50   | 270.94            |
| 5,300.00            | 5,300.00            | GRAYBURG           |           | -0.50   | 270.94            |
| 6,851.00            | 6,851.00            | CHERRY CANYON      |           | -0.50   | 270.94            |
| 7,570.00            | 7,570.00            | BRYSHY CANYON      |           | -0.50   | 270.94            |
| 7,975.00            | 7,975.00            | 1ST BONE SPRING LM |           | -0.50   | 270.94            |
| 9,315.00            | 9,315.00            | 1ST BONE SPRING SS |           | -0.50   | 270.94            |
| 9,522.28            | 9,519.78            | 2ND BONE SPRING LM |           | -0.50   | 270.94            |
| 9,960.57            | 9,852.44            | 2ND BONE SPRING SS |           | -0.50   | 270.94            |

## Plan Annotations

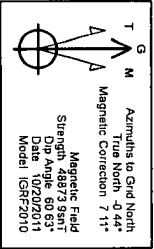
| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates |            | Comment                         |
|---------------------|---------------------|-------------------|------------|---------------------------------|
|                     |                     | +N/-S (ft)        | +E/-W (ft) |                                 |
| 9,352.01            | 9,352.01            | 0.00              | 0.00       | KOP. Build 10°/100'             |
| 10,257.02           | 9,924.95            | 9.53              | -577.88    | EOC: Hold 1° 90.5° @ A: 270.94° |



Project Lea Co., New Mexico (Nad 83)  
TIN CUP 35 STATE COM 2H Lateral #1  
Well Tin Cup 35 State Com 2H  
Wellbore Lateral #1  
Design Design #1

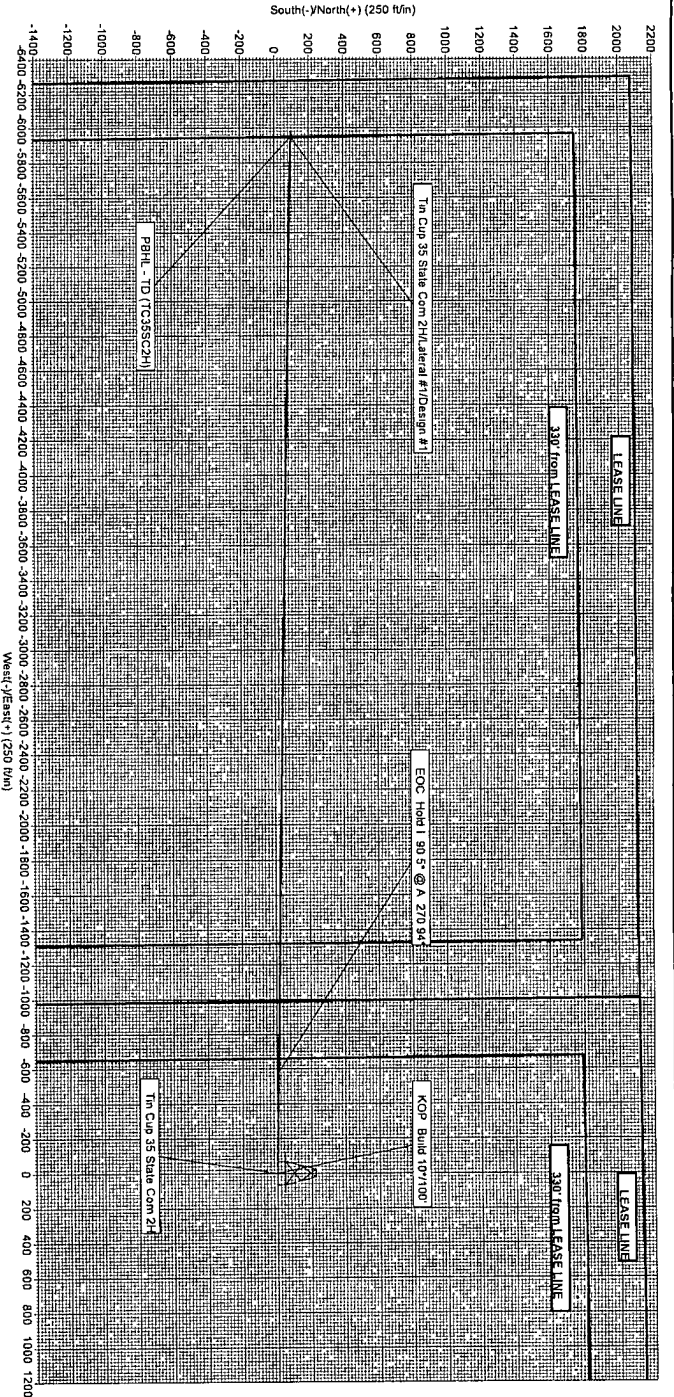
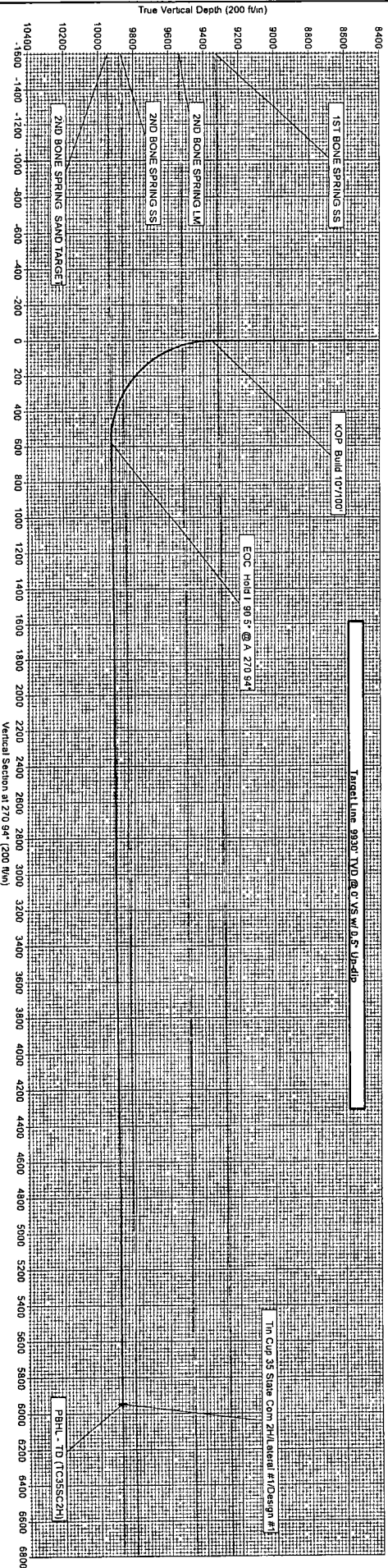


PROJECT DETAILS Lea Co. New Mexico (Nad 83)  
Geodetic System US State Plane 1983  
Datum North American Datum 1983  
Ellipsoid GRS 1980  
Zone New Mexico Eastern Zone  
System Datum Mean Sea Level



Plan Design #1 (Tin Cup 35 State Com 2H Lateral #1)  
Created By Eric Marchew  
Date 11/16, October 20 2011  
Checked \_\_\_\_\_ Date \_\_\_\_\_  
Reviewed \_\_\_\_\_ Date \_\_\_\_\_  
Approved \_\_\_\_\_ Date \_\_\_\_\_

ANNOTATIONS  
TWO 9352 01 KOP Build 10/7/00  
MD Annotation  
9352 01 10257 02 EOC Hold 1 90.5 @ A 270.94°



| WELL DETAILS Tin Cup 35 State Com 2H  |           |       |           |                  |
|---------------------------------------|-----------|-------|-----------|------------------|
| Ground Level                          | 3380.00   |       |           |                  |
| WELL @ 4000.00ft (Original Well Elev) |           |       |           |                  |
| +N/S                                  | 0.00      | +E/W  | 0.00      | 0.00             |
| 0.00                                  | 62.406 57 | North | 79.172 14 | 32° 42' 20.323 N |
|                                       |           | East  |           | 103° 31' 8.956 W |
|                                       |           |       |           | Spot             |

| SECTION DETAILS |          |       |        |         |       |          |       |        |                      |
|-----------------|----------|-------|--------|---------|-------|----------|-------|--------|----------------------|
| Sec             | MD       | Inc   | Azi    | TYD     | +N/S  | +E/W     | Deg   | Tface  | Vsect Target         |
| 1               | 0.00     | 0.00  | 0.00   | 0.00    | 0.00  | 0.00     | 0.00  | 0.00   | 0.00                 |
| 2               | 9352 01  | 0.00  | 0.00   | 9352 01 | 0.00  | 0.00     | 0.00  | 0.00   | 0.00                 |
| 3               | 10257 02 | 90.50 | 270.94 | 8924.95 | 9.53  | -577.88  | 10.00 | 270.94 | 577.88               |
| 4               | 15627 01 | 90.50 | 270.94 | 8978.09 | 98.05 | -5946.94 | 0.00  | 0.00   | 5847.75              |
|                 |          |       |        |         |       |          |       |        | PBHL - TD (TC35SC2H) |

| WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG) |         |       |          |           |          |                  |                   |       |  |
|---------------------------------------------------------|---------|-------|----------|-----------|----------|------------------|-------------------|-------|--|
| Name                                                    | TYD     | +N/S  | +E/W     | North     | East     | Latitude         | Longitude         | Shape |  |
| PBHL - TD (TC35SC2H)                                    | 9878.09 | 98.05 | -5946.94 | 62.504 62 | 785822.2 | 32° 42' 21.740 N | 103° 32' 18.973 W | Point |  |

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Devon Energy Production Co, LP  
Tin Cup 35 State Com 2H - Design #1

Lea Co., New Mexico (Nad 83)  
Tin Cup 35 State Com 2H

| Measured<br>Dogleg<br>Depth<br>Rate<br>(ft)<br>(°/100ft) | Incl.    | Azim.  | Vertical<br>Depth<br>(ft) | Northings<br>(ft) | Eastings<br>(ft) | Vertical<br>Section<br>(ft) |
|----------------------------------------------------------|----------|--------|---------------------------|-------------------|------------------|-----------------------------|
| 0.00                                                     | 0.000    | 0.000  | 0.00                      | 0.00 N            | 0.00 E           | 0.00                        |
| 0.00                                                     | 9352.01  | 0.000  | 0.000                     | 9352.01           | 0.00 N           | 0.00 E                      |
| 0.00                                                     | 9400.00  | 4.799  | 270.945                   | 9399.94           | 0.03 N           | 2.01 W                      |
| 10.00                                                    | 9450.00  | 9.799  | 270.945                   | 9449.52           | 0.14 N           | 8.36 W                      |
| 10.00                                                    | 9500.00  | 14.799 | 270.945                   | 9498.36           | 0.31 N           | 19.00 W                     |
| 10.00                                                    | 9550.00  | 19.799 | 270.945                   | 9546.08           | 0.56 N           | 33.86 W                     |
| 10.00                                                    | 9600.00  | 24.799 | 270.945                   | 9592.33           | 0.87 N           | 52.83 W                     |
| 10.00                                                    | 9650.00  | 29.799 | 270.945                   | 9636.75           | 1.25 N           | 75.75 W                     |
| 10.00                                                    | 9700.00  | 34.798 | 270.945                   | 9679.00           | 1.69 N           | 102.45 W                    |
| 10.00                                                    | 9750.00  | 39.798 | 270.945                   | 9718.76           | 2.19 N           | 132.74 W                    |
| 10.00                                                    | 9800.00  | 44.798 | 270.945                   | 9755.73           | 2.74 N           | 166.37 W                    |
| 10.00                                                    | 9850.00  | 49.798 | 270.945                   | 9789.63           | 3.35 N           | 203.10 W                    |
| 10.00                                                    | 9900.00  | 54.798 | 270.945                   | 9820.20           | 4.00 N           | 242.64 W                    |
| 10.00                                                    | 9950.00  | 59.798 | 270.945                   | 9847.20           | 4.69 N           | 284.70 W                    |
| 10.00                                                    | 10000.00 | 64.798 | 270.945                   | 9870.44           | 5.42 N           | 328.95 W                    |
| 10.00                                                    | 10050.00 | 69.798 | 270.945                   | 9889.73           | 6.18 N           | 375.05 W                    |
| 10.00                                                    | 10100.00 | 74.798 | 270.945                   | 9904.93           | 6.97 N           | 422.66 W                    |
| 10.00                                                    | 10150.00 | 79.798 | 270.945                   | 9915.92           | 7.77 N           | 471.42 W                    |
| 10.00                                                    | 10200.00 | 84.798 | 270.945                   | 9922.61           | 8.59 N           | 520.94 W                    |
| 10.00                                                    | 10250.00 | 89.798 | 270.945                   | 9924.97           | 9.41 N           | 570.87 W                    |
| 10.00                                                    | 10257.02 | 90.500 | 270.945                   | 9924.95           | 9.53 N           | 577.88 W                    |
| 10.00                                                    | 10300.00 | 90.500 | 270.945                   | 9924.58           | 10.24 N          | 620.86 W                    |
| 0.00                                                     | 10400.00 | 90.500 | 270.945                   | 9923.70           | 11.88 N          | 720.84 W                    |
| 0.00                                                     | 10500.00 | 90.500 | 270.945                   | 9922.83           | 13.53 N          | 820.82 W                    |
| 0.00                                                     | 10600.00 | 90.500 | 270.945                   | 9921.96           | 15.18 N          | 920.80 W                    |
| 0.00                                                     |          |        |                           |                   |                  |                             |

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|------|----------------------------------------------------|--------|---------|---------|---------|-----------|---------|
| 0.00 | 10700.00                                           | 90.500 | 270.945 | 9921.09 | 16.83 N | 1020.79 W | 1020.93 |
| 0.00 | 10800.00                                           | 90.500 | 270.945 | 9920.21 | 18.48 N | 1120.77 W | 1120.92 |
| 0.00 | 10900.00                                           | 90.500 | 270.945 | 9919.34 | 20.13 N | 1220.75 W | 1220.92 |
| 0.00 | 11000.00                                           | 90.500 | 270.945 | 9918.47 | 21.78 N | 1320.73 W | 1320.91 |
| 0.00 | 11100.00                                           | 90.500 | 270.945 | 9917.60 | 23.42 N | 1420.72 W | 1420.91 |
| 0.00 | 11200.00                                           | 90.500 | 270.945 | 9916.72 | 25.07 N | 1520.70 W | 1520.91 |
| 0.00 | 11300.00                                           | 90.500 | 270.945 | 9915.85 | 26.72 N | 1620.68 W | 1620.90 |
| 0.00 | 11400.00                                           | 90.500 | 270.945 | 9914.98 | 28.37 N | 1720.67 W | 1720.90 |
| 0.00 | 11500.00                                           | 90.500 | 270.945 | 9914.10 | 30.02 N | 1820.65 W | 1820.90 |
| 0.00 | 11600.00                                           | 90.500 | 270.945 | 9913.23 | 31.67 N | 1920.63 W | 1920.89 |
| 0.00 | 11700.00                                           | 90.500 | 270.945 | 9912.36 | 33.31 N | 2020.61 W | 2020.89 |
| 0.00 | 11800.00                                           | 90.500 | 270.945 | 9911.49 | 34.96 N | 2120.60 W | 2120.88 |
| 0.00 | 11900.00                                           | 90.500 | 270.945 | 9910.61 | 36.61 N | 2220.58 W | 2220.88 |
| 0.00 | 12000.00                                           | 90.500 | 270.945 | 9909.74 | 38.26 N | 2320.56 W | 2320.88 |
| 0.00 | 12100.00                                           | 90.500 | 270.945 | 9908.87 | 39.91 N | 2420.54 W | 2420.87 |
| 0.00 | 12200.00                                           | 90.500 | 270.945 | 9908.00 | 41.56 N | 2520.53 W | 2520.87 |
| 0.00 | 12300.00                                           | 90.500 | 270.945 | 9907.12 | 43.21 N | 2620.51 W | 2620.86 |
| 0.00 | 12400.00                                           | 90.500 | 270.945 | 9906.25 | 44.85 N | 2720.49 W | 2720.86 |
| 0.00 | 12500.00                                           | 90.500 | 270.945 | 9905.38 | 46.50 N | 2820.47 W | 2820.86 |
| 0.00 | 12600.00                                           | 90.500 | 270.945 | 9904.51 | 48.15 N | 2920.46 W | 2920.85 |
| 0.00 | 12700.00                                           | 90.500 | 270.945 | 9903.63 | 49.80 N | 3020.44 W | 3020.85 |
| 0.00 | 12800.00                                           | 90.500 | 270.945 | 9902.76 | 51.45 N | 3120.42 W | 3120.85 |
| 0.00 | 12900.00                                           | 90.500 | 270.945 | 9901.89 | 53.10 N | 3220.40 W | 3220.84 |
| 0.00 | 13000.00                                           | 90.500 | 270.945 | 9901.01 | 54.74 N | 3320.39 W | 3320.84 |
| 0.00 | 13100.00                                           | 90.500 | 270.945 | 9900.14 | 56.39 N | 3420.37 W | 3420.83 |
| 0.00 | 13200.00                                           | 90.500 | 270.945 | 9899.27 | 58.04 N | 3520.35 W | 3520.83 |
| 0.00 | 13300.00                                           | 90.500 | 270.945 | 9898.40 | 59.69 N | 3620.33 W | 3620.83 |
| 0.00 | 13400.00                                           | 90.500 | 270.945 | 9897.52 | 61.34 N | 3720.32 W | 3720.82 |
| 0.00 | 13500.00                                           | 90.500 | 270.945 | 9896.65 | 62.99 N | 3820.30 W | 3820.82 |
| 0.00 | 13600.00                                           | 90.500 | 270.945 | 9895.78 | 64.64 N | 3920.28 W | 3920.82 |
| 0.00 | 13700.00                                           | 90.500 | 270.945 | 9894.91 | 66.28 N | 4020.27 W | 4020.81 |
| 0.00 | 13800.00                                           | 90.500 | 270.945 | 9894.03 | 67.93 N | 4120.25 W | 4120.81 |



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|          |        |         |         |         |           |         |
|----------|--------|---------|---------|---------|-----------|---------|
| 0.00     |        |         |         |         |           |         |
| 13900.00 | 90.500 | 270.945 | 9893.16 | 69.58 N | 4220.23 W | 4220.80 |
| 0.00     |        |         |         |         |           |         |
| 14000.00 | 90.500 | 270.945 | 9892.29 | 71.23 N | 4320.21 W | 4320.80 |
| 0.00     |        |         |         |         |           |         |
| 14100.00 | 90.500 | 270.945 | 9891.42 | 72.88 N | 4420.20 W | 4420.80 |
| 0.00     |        |         |         |         |           |         |
| 14200.00 | 90.500 | 270.945 | 9890.54 | 74.53 N | 4520.18 W | 4520.79 |
| 0.00     |        |         |         |         |           |         |
| 14300.00 | 90.500 | 270.945 | 9889.67 | 76.17 N | 4620.16 W | 4620.79 |
| 0.00     |        |         |         |         |           |         |
| 14400.00 | 90.500 | 270.945 | 9888.80 | 77.82 N | 4720.14 W | 4720.78 |
| 0.00     |        |         |         |         |           |         |
| 14500.00 | 90.500 | 270.945 | 9887.92 | 79.47 N | 4820.13 W | 4820.78 |
| 0.00     |        |         |         |         |           |         |
| 14600.00 | 90.500 | 270.945 | 9887.05 | 81.12 N | 4920.11 W | 4920.78 |
| 0.00     |        |         |         |         |           |         |
| 14700.00 | 90.500 | 270.945 | 9886.18 | 82.77 N | 5020.09 W | 5020.77 |
| 0.00     |        |         |         |         |           |         |
| 14800.00 | 90.500 | 270.945 | 9885.31 | 84.42 N | 5120.07 W | 5120.77 |
| 0.00     |        |         |         |         |           |         |
| 14900.00 | 90.500 | 270.945 | 9884.43 | 86.07 N | 5220.06 W | 5220.77 |
| 0.00     |        |         |         |         |           |         |
| 15000.00 | 90.500 | 270.945 | 9883.56 | 87.71 N | 5320.04 W | 5320.76 |
| 0.00     |        |         |         |         |           |         |
| 15100.00 | 90.500 | 270.945 | 9882.69 | 89.36 N | 5420.02 W | 5420.76 |
| 0.00     |        |         |         |         |           |         |
| 15200.00 | 90.500 | 270.945 | 9881.82 | 91.01 N | 5520.00 W | 5520.75 |
| 0.00     |        |         |         |         |           |         |
| 15300.00 | 90.500 | 270.945 | 9880.94 | 92.66 N | 5619.99 W | 5620.75 |
| 0.00     |        |         |         |         |           |         |
| 15400.00 | 90.500 | 270.945 | 9880.07 | 94.31 N | 5719.97 W | 5720.75 |
| 0.00     |        |         |         |         |           |         |
| 15500.00 | 90.500 | 270.945 | 9879.20 | 95.96 N | 5819.95 W | 5820.74 |
| 0.00     |        |         |         |         |           |         |
| 15600.00 | 90.500 | 270.945 | 9878.33 | 97.60 N | 5919.93 W | 5920.74 |
| 0.00     |        |         |         |         |           |         |
| 15627.01 | 90.500 | 270.945 | 9878.09 | 98.05 N | 5946.94 W | 5947.75 |
| 0.00     |        |         |         |         |           |         |

All data are in feet unless otherwise stated. Directions and coordinates are relative to Grid North.  
Vertical depths are relative to WELL. Northings and Eastings are relative to Site.

The Dogleg Severity is in Degrees per 100 feet.  
Vertical Section is from Slot and calculated along an Azimuth of 270.940° (Grid).

Coordinate System is North American Datum 1983 US State Plane 1983, New Mexico Eastern Zone.  
Central meridian is -104.333°.  
Grid Convergence at Surface is 0.440°.

Based upon Minimum Curvature type calculations, at a Measured Depth of 15627.01ft., the Bottom Hole Displacement is 5947.75ft., in the Direction of 270.940° (Grid).