

**PATRIOT DRILLING, LLC**

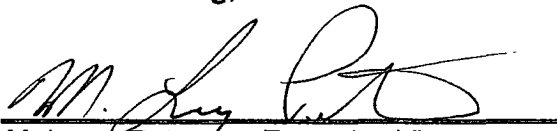
OPERATOR: Nadel & Gussman HEYCO, LLC.  
WELL/LEASE: Taylor 12 Federal # 10  
COUNTY: Eddy Co., New Mexico  
Sec. 12, T18S, R31E

30-025-39468

**STATE OF NEW MEXICO  
DEVIATION REPORT**

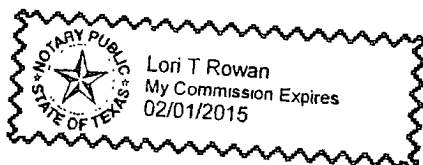
| <u>Depth</u> | <u>Deviation</u> | <u>Depth</u> | <u>Deviation</u> |
|--------------|------------------|--------------|------------------|
| 270          | 1/4              | 2,851        | 3/4              |
| 520          | 1/4              | 3,137        | 1 1/4            |
| 670          | 1/2              | 3,420        | 1 1/4            |
| 967          | 1/4              | 3,707        | 1                |
| 1,232        | 1/2              | 3,992        | 1 1/2            |
| 1,486        | 1/4              | 4,275        | 1                |
| 1,740        | 1/4              | 4,559        | 1 1/4            |
| 2,025        | 1/4              | 4,813        | 1 1/4            |
| 2,310        | 1                | 5,098        | 1 1/4            |
| 2,564        | 3/4              | 5,350        | 1                |

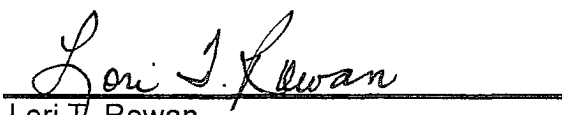
**Patriot Drilling, LLC**

  
M. Leroy Peterson, Executive Vice-  
President

The foregoing instrument was acknowledged before me on this 1st day of  
November, 2011 by M. Leroy Peterson, Executive Vice-President of Patriot Drilling,

My Commission Expires: 02/01/2015



  
Lori T. Rowan  
Notary Public for Ector Co., Texas

DISTRICT I  
1925 N. French Dr., Hobbs, NM 88240

DISTRICT II  
1301 W. Grand Avenue, Artesia, NM 88210

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-102  
Revised October 12, 2005

Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.  
Santa Fe, New Mexico 87505

"AS DRILLED"

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

|                          |                                                 |                                          |
|--------------------------|-------------------------------------------------|------------------------------------------|
| API Number<br>3001538248 | Pool Code<br>97576                              | Pool Name<br>Little AAA Tank; Upper Penn |
| Property Code<br>35352   | Property Name<br>TAOS FEDERAL                   | Well Number<br>3                         |
| GRID No.<br>162683       | Operator Name<br>CIMAREX ENERGY CO. OF COLORADO | Elevation<br>3398'                       |

Surface Location

| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| P             | 31      | 24 S     | 27 E  |         | 250           | SOUTH            | 475           | EAST           | EDDY   |

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 |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| M             | 31      | 24 S     | 27 E  |         | 614           | NORTH            | 990           | EAST           | EDDY   |

|                        |                 |                    |           |
|------------------------|-----------------|--------------------|-----------|
| Dedicated Acres<br>320 | Joint or Infill | Consolidation Code | Order No. |
|------------------------|-----------------|--------------------|-----------|

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>BOTTOM HOLE LOCATION</b><br/>Lat = N 32°10'45.14"<br/>Long = W 104°13'28.41"<br/>NMSPC = N 428946.887<br/>E 574990.746<br/>(NAD-83)</p> <p><b>SURFACE LOCATION</b><br/>Lat = N 32°10'01.39"<br/>Long = W 104°13'22.24"<br/>NMSPC = N 424526.4<br/>E 575525.8<br/>(NAD-83)</p> <p><b>BHL, End of Prod Int</b><br/>614' FSL &amp; 990' FEL</p> <p><b>EOC, Beg of Prod Int</b><br/>1069' FSL &amp; 796' FEL</p> <p><b>PP Cisco Canyon</b><br/>716' FSL &amp; 698' FEL</p> <p><b>SHL</b><br/>250' FSL &amp; 475' FEL</p> | <p><b>OPERATOR CERTIFICATION</b></p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>Terri Stathem</i><br/>Signature<br/>1/16/2012<br/>Date</p> <p>Terri Stathem<br/>Printed Name</p> <p><b>SURVEYOR CERTIFICATION</b></p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my belief.</p> <p>DATE SURVEYED: 12/20/09<br/>Signature of Professional Surveyor<br/>7973<br/>Certificate No. Gary L. Jones 7977</p> <p><b>BASIN SURVEYS</b></p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

30-015-38248

End Of Well Report



INTEQ

End of Well Report

**Cimarex Energy Co.**

Eddy County, NM

**Taos Fed No. 3H**

Cactus 122

### ***Well Specifications***

**Well Name:** Taos Fed No. 3H  
**Start Date:** 5/8/2011  
**Client:** Cimarex Energy Co.  
**Rig Name:** Cactus 122  
**County:** Eddy County, NM  
**Field:** (TAOS) Sec 31, T24S, R27E

### **Well Location:**

NAD83 / TM New Mexico State Planes, Eastern Zone (3001)

#### **Grid Coordinates**

Easting: 575525.60'  
Northing: 424526.40'

#### **Geographical Coordinates**

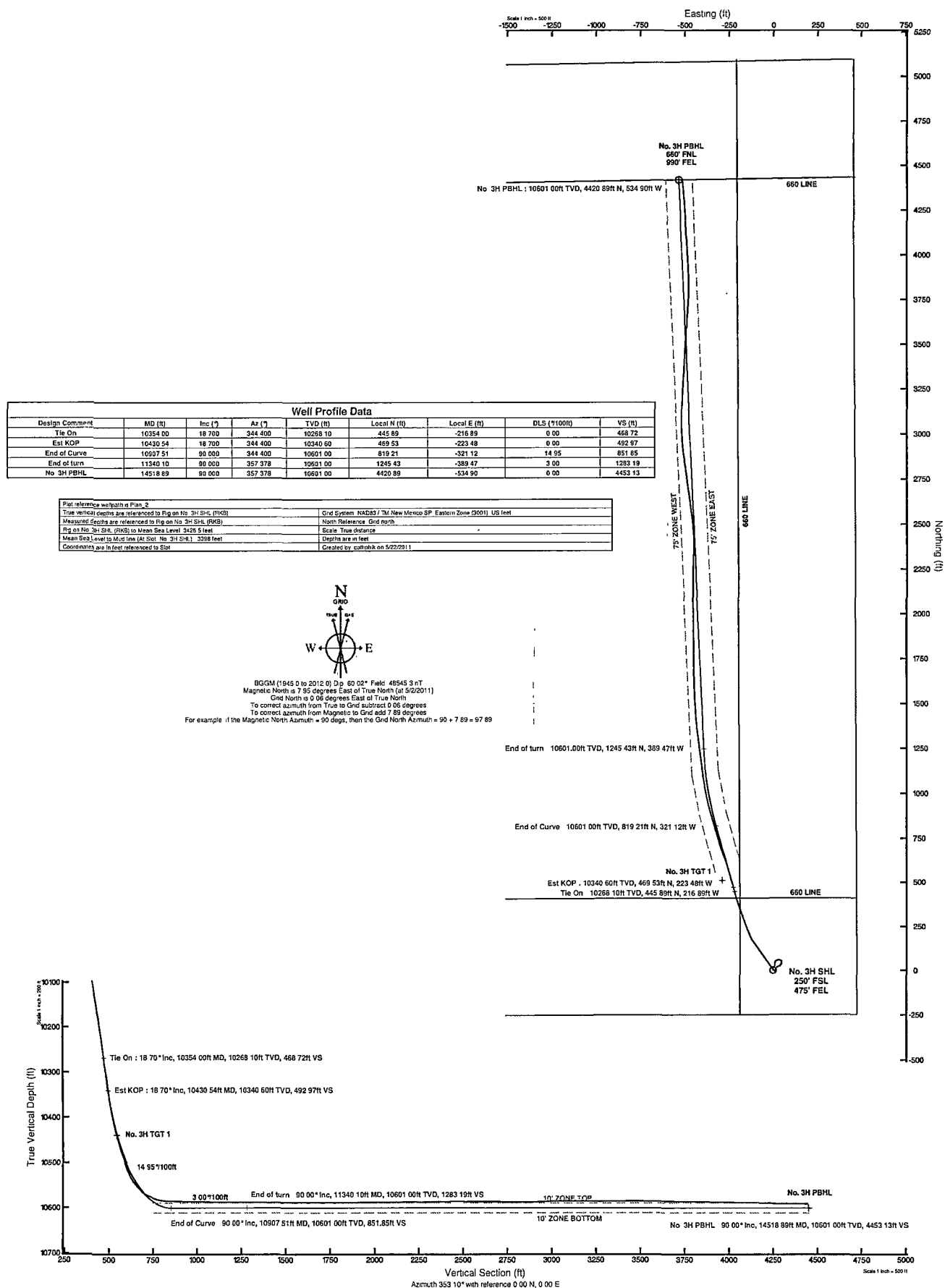
Latitude: 32°10'01.391"N  
Longitude: 104°13'22.239"W

**RT:** 3,426' above M.S.L.

**Date TD Reached:** 6/11/2011

**Final Depth MD:** 14,525'

**Final Depth TVD:** 10,591.42'





# Actual Wellpath Report

No. 3H AWP

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## REFERENCE WELLPATH IDENTIFICATION

|          |                           |          |            |
|----------|---------------------------|----------|------------|
| Operator | Cimarex Energy Co.        | Slot     | No. 3H SHL |
| Area     | Eddy County, NM           | Well     | No. 3H     |
| Field    | (TAOS) Sec 31, T24S, R27E | Wellbore | No. 3H AWB |
| Facility | TAOS Fed No. 3H           |          |            |

## REPORT SETUP INFORMATION

|                     |                                                        |                      |                           |
|---------------------|--------------------------------------------------------|----------------------|---------------------------|
| Projection System   | NAD83 / TM New Mexico SP, Eastern Zone (3001), US feet | Software System      | WellArchitect® 3.0.0      |
| North Reference     | Grid                                                   | User                 | Gentbry                   |
| Scale               | 0.99991                                                | Report Generated     | 6/13/2011 at 9:07:52 AM   |
| Convergence at slot | 0.06° East                                             | Database/Source file | WA Midland/No. 3H_AWB.xml |

## WELLPATH LOCATION

|                       | Local coordinates |          | Grid coordinates |                 | Geographic coordinates |                 |
|-----------------------|-------------------|----------|------------------|-----------------|------------------------|-----------------|
|                       | North[ft]         | East[ft] | Easting[US ft]   | Northing[US ft] | Latitude               | Longitude       |
| Slot Location         | 0.00              | 0.00     | 575525.60        | 424526.40       | 32°10'01.391"N         | 104°13'22.239"W |
| Facility Reference Pt |                   |          | 575525.60        | 424526.40       | 32°10'01.391"N         | 104°13'22.239"W |
| Field Reference Pt    |                   |          | 574017.40        | 425260.10       | 32°10'08.666"N         | 104°13'39.778"W |

## WELLPATH DATUM

|                          |                         |                                                          |                   |
|--------------------------|-------------------------|----------------------------------------------------------|-------------------|
| Calculation method       | Minimum curvature       | Rig on No. 3H SHL (RKB) to GL                            | 28.50ft           |
| Horizontal Reference Pt  | Slot                    | Rig on No. 3H SHL (RKB) to Mean Sea Level                | 3426.50ft         |
| Vertical Reference Pt    | Rig on No. 3H SHL (RKB) | Rig on No. 3H SHL (RKB) to Mud Line at Slot (No. 3H SHL) | 28.50ft           |
| MD Reference Pt          | Rig on No. 3H SHL (RKB) | Section Origin                                           | N 0.00; E 0.00 ft |
| Field Vertical Reference | Mean Sea Level          | Section Azimuth                                          | 353.10°           |



# Actual Wellpath Report

No. 3H AWP

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| REFERENCE WELLPATH IDENTIFICATION |                           |          |            |
|-----------------------------------|---------------------------|----------|------------|
| Operator                          | Cimarex Energy Co.        | Slot     | No. 3H SHL |
| Area                              | Eddy County, NM           | Well     | No. 3H     |
| Field                             | (TAOS) Sec 31, T24S, R27E | Wellbore | No. 3H AWP |
| Facility                          | TAOS Fed No. 3H           |          |            |

| WELLPATH DATA (168 stations) † = interpolated/extrapolated station |                    |                |             |                   |               |              |                      |                       |                |                 |                  |          |
|--------------------------------------------------------------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------------|-----------------------|----------------|-----------------|------------------|----------|
| MD<br>[ft]                                                         | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | Vert Sect<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[US ft] | Grid North<br>[US ft] | Latitude       | Longitude       | DLS<br>[°/100ft] | Comments |
| 0.00†                                                              | 0.000              | 331.600        | 0.00        | 0.00              | 0.00          | 0.00         | 575525.60            | 424526.40             | 32°10'01.391"N | 104°13'22.239"W | 0.00             |          |
| 28.50                                                              | 0.000              | 331.600        | 28.50       | 0.00              | 0.00          | 0.00         | 575525.60            | 424526.40             | 32°10'01.391"N | 104°13'22.239"W | 0.00             |          |
| 112.00                                                             | 0.690              | 331.600        | 112.00      | 0.47              | 0.44          | -0.24        | 575525.36            | 424526.84             | 32°10'01.395"N | 104°13'22.242"W | 0.83             |          |
| 212.00                                                             | 0.640              | 326.380        | 211.99      | 1.53              | 1.44          | -0.83        | 575524.77            | 424527.84             | 32°10'01.405"N | 104°13'22.249"W | 0.08             |          |
| 312.00                                                             | 0.520              | 337.240        | 311.99      | 2.46              | 2.32          | -1.32        | 575524.28            | 424528.72             | 32°10'01.413"N | 104°13'22.254"W | 0.16             |          |
| 412.00                                                             | 0.450              | 355.140        | 411.98      | 3.29              | 3.13          | -1.53        | 575524.07            | 424529.53             | 32°10'01.421"N | 104°13'22.257"W | 0.17             |          |
| 512.00                                                             | 0.780              | 3.050          | 511.98      | 4.35              | 4.20          | -1.53        | 575524.07            | 424530.60             | 32°10'01.432"N | 104°13'22.257"W | 0.34             |          |
| 612.00                                                             | 1.050              | 6.640          | 611.96      | 5.92              | 5.79          | -1.38        | 575524.22            | 424532.19             | 32°10'01.448"N | 104°13'22.255"W | 0.28             |          |
| 712.00                                                             | 1.120              | 3.250          | 711.95      | 7.77              | 7.68          | -1.22        | 575524.38            | 424534.08             | 32°10'01.466"N | 104°13'22.253"W | 0.09             |          |
| 824.10                                                             | 1.210              | 7.730          | 824.02      | 9.99              | 9.94          | -1.00        | 575524.60            | 424536.34             | 32°10'01.489"N | 104°13'22.250"W | 0.11             |          |
| 917.90                                                             | 1.260              | 27.750         | 917.80      | 11.80             | 11.84         | -0.39        | 575525.21            | 424538.24             | 32°10'01.508"N | 104°13'22.243"W | 0.46             |          |
| 1011.60                                                            | 1.250              | 48.360         | 1011.48     | 13.23             | 13.43         | 0.86         | 575526.46            | 424539.83             | 32°10'01.523"N | 104°13'22.229"W | 0.48             |          |
| 1106.70                                                            | 1.950              | 51.400         | 1106.54     | 14.67             | 15.13         | 2.90         | 575528.50            | 424541.53             | 32°10'01.540"N | 104°13'22.205"W | 0.74             |          |
| 1201.70                                                            | 2.300              | 44.420         | 1201.48     | 16.71             | 17.50         | 5.49         | 575531.09            | 424543.90             | 32°10'01.564"N | 104°13'22.175"W | 0.46             |          |
| 1295.60                                                            | 3.170              | 24.090         | 1295.27     | 20.11             | 21.21         | 7.87         | 575533.47            | 424547.61             | 32°10'01.600"N | 104°13'22.147"W | 1.37             |          |
| 1390.10                                                            | 3.560              | 11.590         | 1389.61     | 25.14             | 26.47         | 9.53         | 575535.13            | 424552.87             | 32°10'01.652"N | 104°13'22.128"W | 0.88             |          |
| 1483.60                                                            | 3.420              | 1.260          | 1482.94     | 30.65             | 32.10         | 10.17        | 575535.77            | 424558.50             | 32°10'01.708"N | 104°13'22.120"W | 0.69             |          |
| 1578.40                                                            | 2.980              | 351.600        | 1577.59     | 35.91             | 37.37         | 9.87         | 575535.47            | 424563.77             | 32°10'01.760"N | 104°13'22.124"W | 0.73             |          |
| 1673.80                                                            | 3.090              | 13.040         | 1672.86     | 40.81             | 42.33         | 10.09        | 575535.69            | 424568.72             | 32°10'01.809"N | 104°13'22.121"W | 1.19             |          |
| 1767.20                                                            | 2.620              | 15.110         | 1766.14     | 45.15             | 46.84         | 11.22        | 575536.82            | 424573.24             | 32°10'01.854"N | 104°13'22.108"W | 0.52             |          |
| 1861.00                                                            | 2.710              | 38.050         | 1859.84     | 48.71             | 50.66         | 13.14        | 575538.74            | 424577.05             | 32°10'01.892"N | 104°13'22.085"W | 1.13             |          |
| 1955.90                                                            | 3.350              | 57.640         | 1954.61     | 51.49             | 53.91         | 16.87        | 575542.47            | 424580.30             | 32°10'01.924"N | 104°13'22.042"W | 1.27             |          |
| 2050.40                                                            | 2.710              | 69.070         | 2048.98     | 53.22             | 56.18         | 21.29        | 575546.88            | 424582.58             | 32°10'01.946"N | 104°13'21.991"W | 0.93             |          |
| 2144.50                                                            | 2.100              | 74.920         | 2143.00     | 54.00             | 57.43         | 25.03        | 575550.63            | 424583.82             | 32°10'01.959"N | 104°13'21.947"W | 0.70             |          |
| 2239.00                                                            | 1.440              | 77.270         | 2237.45     | 54.37             | 58.14         | 27.86        | 575553.46            | 424584.53             | 32°10'01.966"N | 104°13'21.914"W | 0.70             |          |
| 2332.90                                                            | 1.110              | 76.140         | 2331.33     | 54.60             | 58.62         | 29.89        | 575555.49            | 424585.01             | 32°10'01.970"N | 104°13'21.890"W | 0.35             |          |
| 2427.00                                                            | 1.030              | 77.200         | 2425.41     | 54.80             | 59.02         | 31.60        | 575557.20            | 424585.42             | 32°10'01.974"N | 104°13'21.871"W | 0.09             |          |
| 2521.50                                                            | 1.060              | 78.050         | 2519.90     | 54.96             | 59.39         | 33.29        | 575558.88            | 424585.79             | 32°10'01.978"N | 104°13'21.851"W | 0.04             |          |
| 2616.10                                                            | 0.690              | 85.170         | 2614.49     | 55.02             | 59.62         | 34.71        | 575560.31            | 424586.02             | 32°10'01.980"N | 104°13'21.834"W | 0.41             |          |
| 2710.80                                                            | 0.700              | 87.450         | 2709.18     | 54.96             | 59.69         | 35.86        | 575561.45            | 424586.09             | 32°10'01.981"N | 104°13'21.821"W | 0.03             |          |
| 2804.50                                                            | 0.370              | 102.340        | 2802.87     | 54.81             | 59.66         | 36.72        | 575562.32            | 424586.05             | 32°10'01.980"N | 104°13'21.811"W | 0.38             |          |
| 2898.80                                                            | 0.320              | 115.950        | 2897.17     | 54.57             | 59.48         | 37.26        | 575562.85            | 424585.87             | 32°10'01.979"N | 104°13'21.805"W | 0.10             |          |
| 2992.40                                                            | 0.450              | 120.840        | 2990.77     | 54.20             | 59.17         | 37.81        | 575563.40            | 424585.57             | 32°10'01.976"N | 104°13'21.798"W | 0.14             |          |
| 3086.90                                                            | 0.370              | 120.710        | 3085.27     | 53.79             | 58.83         | 38.39        | 575563.99            | 424585.22             | 32°10'01.972"N | 104°13'21.792"W | 0.08             |          |
| 3180.20                                                            | 0.370              | 113.920        | 3178.57     | 53.45             | 58.55         | 38.92        | 575564.52            | 424584.95             | 32°10'01.969"N | 104°13'21.785"W | 0.05             |          |
| 3273.90                                                            | 0.310              | 121.730        | 3272.26     | 53.14             | 58.29         | 39.42        | 575565.01            | 424584.69             | 32°10'01.967"N | 104°13'21.780"W | 0.08             |          |
| 3367.90                                                            | 0.300              | 117.260        | 3366.26     | 52.84             | 58.05         | 39.85        | 575565.45            | 424584.44             | 32°10'01.964"N | 104°13'21.775"W | 0.03             |          |
| 3461.70                                                            | 0.270              | 107.220        | 3460.06     | 52.61             | 57.87         | 40.28        | 575565.88            | 424584.26             | 32°10'01.963"N | 104°13'21.770"W | 0.06             |          |
| 3556.30                                                            | 0.350              | 100.950        | 3554.66     | 52.43             | 57.75         | 40.78        | 575566.37            | 424584.14             | 32°10'01.962"N | 104°13'21.764"W | 0.09             |          |
| 3650.00                                                            | 0.340              | 111.700        | 3648.36     | 52.21             | 57.59         | 41.32        | 575566.91            | 424583.99             | 32°10'01.960"N | 104°13'21.758"W | 0.07             |          |
| 3744.40                                                            | 0.490              | 114.550        | 3742.76     | 51.87             | 57.32         | 41.94        | 575567.54            | 424583.72             | 32°10'01.957"N | 104°13'21.750"W | 0.16             |          |
| 3837.80                                                            | 0.630              | 112.230        | 3836.15     | 51.41             | 56.96         | 42.78        | 575568.38            | 424583.36             | 32°10'01.954"N | 104°13'21.740"W | 0.15             |          |
| 3931.20                                                            | 0.650              | 117.380        | 3929.55     | 50.86             | 56.52         | 43.73        | 575569.32            | 424582.92             | 32°10'01.949"N | 104°13'21.729"W | 0.07             |          |
| 4026.40                                                            | 0.670              | 108.530        | 4024.74     | 50.32             | 56.10         | 44.74        | 575570.33            | 424582.49             | 32°10'01.945"N | 104°13'21.718"W | 0.11             |          |
| 4120.70                                                            | 0.590              | 112.270        | 4119.03     | 49.84             | 55.74         | 45.71        | 575571.30            | 424582.13             | 32°10'01.942"N | 104°13'21.706"W | 0.10             |          |



# Actual Wellpath Report

No. 3H AWP

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| REFERENCE WELLPATH IDENTIFICATION |                           |          |            |
|-----------------------------------|---------------------------|----------|------------|
| Operator                          | Cimarex Energy Co.        | Slot     | No. 3H SHL |
| Area                              | Eddy County, NM           | Well     | No. 3H     |
| Field                             | (TAOS) Sec 31, T24S, R27E | Wellbore | No. 3H AWB |
| Facility                          | TAOS Fed No. 3H           |          |            |

| WELLPATH DATA (168 stations) |                    |                |             |                   |               |              |                      |                       |                |                 |                  |          |
|------------------------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------------|-----------------------|----------------|-----------------|------------------|----------|
| MD<br>[ft]                   | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | Vert Sect<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[US ft] | Grid North<br>[US ft] | Latitude       | Longitude       | DLS<br>[°/100ft] | Comments |
| 4214.60                      | 0.480              | 124.210        | 4212.93     | 49.35             | 55.33         | 46.48        | 575572.08            | 424581.73             | 32°10'01.938"N | 104°13'21.697"W | 0.17             |          |
| 4308.90                      | 0.280              | 141.040        | 4307.23     | 48.90             | 54.93         | 46.95        | 575572.55            | 424581.33             | 32°10'01.934"N | 104°13'21.692"W | 0.24             |          |
| 4403.50                      | 0.230              | 172.210        | 4401.83     | 48.51             | 54.56         | 47.12        | 575572.72            | 424580.96             | 32°10'01.930"N | 104°13'21.690"W | 0.15             |          |
| 4498.60                      | 0.320              | 140.330        | 4496.93     | 48.10             | 54.17         | 47.32        | 575572.91            | 424580.57             | 32°10'01.926"N | 104°13'21.688"W | 0.18             |          |
| 4593.60                      | 0.410              | 175.040        | 4591.92     | 47.53             | 53.63         | 47.52        | 575573.11            | 424580.02             | 32°10'01.921"N | 104°13'21.685"W | 0.25             |          |
| 4687.90                      | 0.400              | 179.270        | 4686.22     | 46.87             | 52.96         | 47.55        | 575573.15            | 424579.36             | 32°10'01.914"N | 104°13'21.685"W | 0.03             |          |
| 4783.20                      | 0.570              | 181.860        | 4781.52     | 46.07             | 52.16         | 47.54        | 575573.13            | 424578.55             | 32°10'01.906"N | 104°13'21.685"W | 0.18             |          |
| 4876.90                      | 0.740              | 173.160        | 4875.21     | 45.00             | 51.09         | 47.60        | 575573.19            | 424577.49             | 32°10'01.896"N | 104°13'21.685"W | 0.21             |          |
| 4971.50                      | 0.800              | 171.600        | 4969.80     | 43.73             | 49.83         | 47.76        | 575573.36            | 424576.23             | 32°10'01.883"N | 104°13'21.683"W | 0.07             |          |
| 5065.10                      | 0.920              | 174.270        | 5063.39     | 42.33             | 48.44         | 47.94        | 575573.53            | 424574.83             | 32°10'01.869"N | 104°13'21.681"W | 0.14             |          |
| 5160.30                      | 0.880              | 174.430        | 5158.58     | 40.83             | 46.95         | 48.08        | 575573.68            | 424573.34             | 32°10'01.855"N | 104°13'21.679"W | 0.04             |          |
| 5255.00                      | 0.890              | 184.290        | 5253.27     | 39.38             | 45.49         | 48.10        | 575573.69            | 424571.89             | 32°10'01.840"N | 104°13'21.679"W | 0.16             |          |
| 5348.70                      | 0.870              | 187.420        | 5346.96     | 37.98             | 44.06         | 47.95        | 575573.55            | 424570.46             | 32°10'01.826"N | 104°13'21.680"W | 0.06             |          |
| 5443.20                      | 0.920              | 189.660        | 5441.45     | 36.56             | 42.60         | 47.73        | 575573.33            | 424569.00             | 32°10'01.812"N | 104°13'21.683"W | 0.06             |          |
| 5536.90                      | 1.110              | 198.770        | 5535.13     | 35.02             | 41.00         | 47.31        | 575572.91            | 424567.40             | 32°10'01.796"N | 104°13'21.688"W | 0.27             |          |
| 5631.40                      | 1.200              | 194.630        | 5629.61     | 33.27             | 39.18         | 46.77        | 575572.36            | 424565.57             | 32°10'01.778"N | 104°13'21.694"W | 0.13             |          |
| 5725.00                      | 1.270              | 201.250        | 5723.19     | 31.45             | 37.26         | 46.15        | 575571.74            | 424563.66             | 32°10'01.759"N | 104°13'21.702"W | 0.17             |          |
| 5818.80                      | 1.670              | 199.020        | 5816.96     | 29.30             | 35.00         | 45.32        | 575570.92            | 424561.40             | 32°10'01.736"N | 104°13'21.711"W | 0.43             |          |
| 5912.50                      | 1.660              | 228.600        | 5910.62     | 27.31             | 32.81         | 43.86        | 575569.46            | 424559.21             | 32°10'01.715"N | 104°13'21.728"W | 0.91             |          |
| 6007.60                      | 1.440              | 234.760        | 6005.69     | 25.96             | 31.21         | 41.85        | 575567.45            | 424557.61             | 32°10'01.699"N | 104°13'21.752"W | 0.29             |          |
| 6103.10                      | 0.990              | 203.170        | 6101.17     | 24.67             | 29.76         | 40.55        | 575566.14            | 424556.16             | 32°10'01.685"N | 104°13'21.767"W | 0.83             |          |
| 6198.70                      | 0.640              | 189.900        | 6196.76     | 23.45             | 28.47         | 40.13        | 575565.73            | 424554.87             | 32°10'01.672"N | 104°13'21.772"W | 0.41             |          |
| 6294.40                      | 0.230              | 102.470        | 6292.46     | 22.87             | 27.91         | 40.23        | 575565.82            | 424554.30             | 32°10'01.666"N | 104°13'21.771"W | 0.70             |          |
| 6389.90                      | 0.350              | 174.330        | 6387.95     | 22.52             | 27.57         | 40.44        | 575566.04            | 424553.97             | 32°10'01.663"N | 104°13'21.768"W | 0.37             |          |
| 6483.50                      | 1.690              | 241.090        | 6481.54     | 21.71             | 26.62         | 39.26        | 575564.86            | 424553.02             | 32°10'01.654"N | 104°13'21.782"W | 1.69             |          |
| 6578.80                      | 2.690              | 245.450        | 6576.77     | 20.51             | 25.01         | 36.00        | 575561.59            | 424551.41             | 32°10'01.638"N | 104°13'21.820"W | 1.06             |          |
| 6674.20                      | 3.610              | 247.540        | 6672.02     | 19.03             | 22.94         | 31.19        | 575556.78            | 424549.33             | 32°10'01.617"N | 104°13'21.876"W | 0.97             |          |
| 6769.50                      | 3.400              | 244.560        | 6767.15     | 17.32             | 20.58         | 25.86        | 575551.46            | 424546.97             | 32°10'01.594"N | 104°13'21.938"W | 0.29             |          |
| 6865.10                      | 3.040              | 237.930        | 6862.59     | 15.34             | 18.01         | 21.15        | 575546.75            | 424544.41             | 32°10'01.569"N | 104°13'21.993"W | 0.54             |          |
| 6960.30                      | 3.050              | 234.160        | 6957.66     | 13.04             | 15.19         | 16.96        | 575542.56            | 424541.59             | 32°10'01.541"N | 104°13'22.041"W | 0.21             |          |
| 7055.40                      | 4.800              | 232.570        | 7052.53     | 9.80              | 11.29         | 11.75        | 575537.35            | 424537.69             | 32°10'01.502"N | 104°13'22.102"W | 1.84             |          |
| 7150.60                      | 3.360              | 185.110        | 7147.51     | 5.04              | 6.09          | 8.34         | 575533.94            | 424532.49             | 32°10'01.451"N | 104°13'22.142"W | 3.71             |          |
| 7245.30                      | 2.470              | 177.340        | 7242.09     | 0.29              | 1.29          | 8.18         | 575533.78            | 424527.69             | 32°10'01.403"N | 104°13'22.144"W | 1.03             |          |
| 7339.00                      | 1.510              | 182.330        | 7335.73     | -2.94             | -1.96         | 8.23         | 575533.83            | 424524.44             | 32°10'01.371"N | 104°13'22.143"W | 1.04             |          |
| 7433.50                      | 1.270              | 133.230        | 7430.21     | -4.97             | -3.93         | 8.94         | 575534.54            | 424522.47             | 32°10'01.352"N | 104°13'22.135"W | 1.24             |          |
| 7527.20                      | 0.670              | 119.930        | 7523.90     | -6.10             | -4.91         | 10.17        | 575535.77            | 424521.49             | 32°10'01.342"N | 104°13'22.121"W | 0.68             |          |
| 7621.70                      | 0.150              | 32.950         | 7618.39     | -6.33             | -5.08         | 10.72        | 575536.32            | 424521.32             | 32°10'01.340"N | 104°13'22.114"W | 0.72             |          |
| 7715.30                      | 0.910              | 332.460        | 7711.99     | -5.54             | -4.32         | 10.44        | 575536.04            | 424522.08             | 32°10'01.348"N | 104°13'22.117"W | 0.90             |          |
| 7809.70                      | 1.000              | 324.980        | 7806.38     | -4.12             | -2.98         | 9.62         | 575535.22            | 424523.42             | 32°10'01.361"N | 104°13'22.127"W | 0.16             |          |
| 7905.10                      | 0.370              | 312.690        | 7901.77     | -3.15             | -2.09         | 8.92         | 575534.52            | 424524.31             | 32°10'01.370"N | 104°13'22.135"W | 0.67             |          |
| 8000.40                      | 0.410              | 304.100        | 7997.07     | -2.69             | -1.69         | 8.41         | 575534.01            | 424524.71             | 32°10'01.374"N | 104°13'22.141"W | 0.07             |          |
| 8094.70                      | 1.150              | 352.540        | 8091.36     | -1.52             | -0.56         | 8.01         | 575533.61            | 424525.84             | 32°10'01.385"N | 104°13'22.146"W | 0.99             |          |
| 8190.40                      | 1.360              | 358.680        | 8187.04     | 0.57              | 1.52          | 7.86         | 575533.45            | 424527.92             | 32°10'01.406"N | 104°13'22.147"W | 0.26             |          |
| 8237.00                      | 1.370              | 336.730        | 8233.62     | 1.65              | 2.59          | 7.62         | 575533.22            | 424528.99             | 32°10'01.416"N | 104°13'22.150"W | 1.12             |          |
| 8253.00                      | 1.600              | 323.800        | 8249.62     | 2.03              | 2.94          | 7.42         | 575533.01            | 424529.34             | 32°10'01.420"N | 104°13'22.153"W | 2.53             |          |





# Actual Wellpath Report

No. 3H AWP

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| REFERENCE WELLPATH IDENTIFICATION |                           |          |            |
|-----------------------------------|---------------------------|----------|------------|
| Operator                          | Cimarex Energy Co.        | Slot     | No. 3H SHL |
| Area                              | Eddy County, NM           | Well     | No. 3H     |
| Field                             | (TAOS) Sec 31, T24S, R27E | Wellbore | No. 3H AWB |
| Facility                          | TAOS Fed No. 3H           |          |            |

| WELLPATH DATA (168 stations) |                    |                |             |                   |               |              |                      |                       |                |                 |                  |          |
|------------------------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------------|-----------------------|----------------|-----------------|------------------|----------|
| MD<br>[ft]                   | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | Vert Sect<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[US ft] | Grid North<br>[US ft] | Latitude       | Longitude       | DLS<br>[°/100ft] | Comments |
| 8350.00                      | 1.400              | 325.000        | 8346.58     | 4.26              | 5.01          | 5.94         | 575531.54            | 424531.41             | 32°10'01.440"N | 104°13'22.170"W | 0.21             |          |
| 8448.00                      | 1.800              | 318.500        | 8444.55     | 6.58              | 7.14          | 4.23         | 575529.83            | 424533.54             | 32°10'01.461"N | 104°13'22.190"W | 0.45             |          |
| 8544.00                      | 2.000              | 302.600        | 8540.49     | 8.89              | 9.17          | 1.82         | 575527.42            | 424535.57             | 32°10'01.481"N | 104°13'22.218"W | 0.58             |          |
| 8640.00                      | 1.800              | 295.400        | 8636.44     | 10.76             | 10.72         | -0.95        | 575524.65            | 424537.12             | 32°10'01.497"N | 104°13'22.250"W | 0.32             |          |
| 8732.00                      | 2.900              | 320.400        | 8728.36     | 13.49             | 13.14         | -3.74        | 575521.86            | 424539.53             | 32°10'01.521"N | 104°13'22.282"W | 1.61             |          |
| 8827.00                      | 7.200              | 321.000        | 8822.97     | 20.56             | 19.62         | -9.02        | 575516.58            | 424546.02             | 32°10'01.585"N | 104°13'22.344"W | 4.53             |          |
| 8922.00                      | 8.400              | 322.600        | 8917.09     | 31.58             | 29.76         | -16.99       | 575508.62            | 424556.15             | 32°10'01.685"N | 104°13'22.436"W | 1.28             |          |
| 9019.00                      | 12.400             | 323.100        | 9012.48     | 46.71             | 43.72         | -27.55       | 575498.06            | 424570.12             | 32°10'01.823"N | 104°13'22.559"W | 4.12             |          |
| 9115.00                      | 15.800             | 324.400        | 9105.57     | 67.11             | 62.59         | -41.35       | 575484.26            | 424588.99             | 32°10'02.010"N | 104°13'22.719"W | 3.56             |          |
| 9211.00                      | 17.000             | 324.600        | 9197.67     | 90.90             | 84.66         | -57.09       | 575468.52            | 424611.05             | 32°10'02.229"N | 104°13'22.902"W | 1.25             |          |
| 9306.00                      | 20.000             | 325.100        | 9287.75     | 117.46            | 109.31        | -74.43       | 575451.18            | 424635.70             | 32°10'02.473"N | 104°13'23.103"W | 3.16             |          |
| 9400.00                      | 18.000             | 324.600        | 9376.62     | 144.42            | 134.34        | -92.04       | 575433.57            | 424660.72             | 32°10'02.721"N | 104°13'23.308"W | 2.13             |          |
| 9495.00                      | 16.200             | 323.700        | 9467.42     | 168.87            | 156.98        | -108.39      | 575417.22            | 424683.37             | 32°10'02.945"N | 104°13'23.498"W | 1.92             |          |
| 9591.00                      | 17.100             | 334.900        | 9559.42     | 193.95            | 180.56        | -122.31      | 575403.30            | 424706.95             | 32°10'03.178"N | 104°13'23.660"W | 3.47             |          |
| 9686.00                      | 20.700             | 336.800        | 9649.28     | 223.34            | 208.65        | -134.85      | 575390.76            | 424735.03             | 32°10'03.457"N | 104°13'23.805"W | 3.84             |          |
| 9780.00                      | 22.600             | 338.900        | 9736.65     | 256.80            | 240.78        | -147.90      | 575377.71            | 424767.16             | 32°10'03.775"N | 104°13'23.957"W | 2.18             |          |
| 9878.00                      | 21.300             | 339.900        | 9827.54     | 292.39            | 275.06        | -160.80      | 575364.82            | 424801.44             | 32°10'04.114"N | 104°13'24.106"W | 1.38             |          |
| 9974.00                      | 23.500             | 340.600        | 9916.29     | 328.05            | 309.49        | -173.15      | 575352.47            | 424835.87             | 32°10'04.455"N | 104°13'24.249"W | 2.31             |          |
| 10070.00                     | 23.900             | 341.000        | 10004.20    | 365.75            | 345.93        | -185.84      | 575339.78            | 424872.30             | 32°10'04.815"N | 104°13'24.397"W | 0.45             |          |
| 10165.00                     | 22.400             | 341.800        | 10091.54    | 402.32            | 381.33        | -197.76      | 575327.86            | 424907.69             | 32°10'05.166"N | 104°13'24.535"W | 1.61             |          |
| 10260.00                     | 21.200             | 344.000        | 10179.75    | 437.03            | 415.04        | -208.15      | 575317.47            | 424941.40             | 32°10'05.499"N | 104°13'24.655"W | 1.53             |          |
| 10354.00                     | 18.700             | 344.400        | 10268.10    | 468.72            | 445.89        | -216.89      | 575308.73            | 424972.25             | 32°10'05.805"N | 104°13'24.757"W | 2.66             |          |
| 10392.00                     | 17.700             | 344.100        | 10304.20    | 480.44            | 457.32        | -220.11      | 575305.51            | 424983.67             | 32°10'05.918"N | 104°13'24.794"W | 2.64             |          |
| 10423.00                     | 17.000             | 342.300        | 10333.79    | 489.55            | 466.17        | -222.77      | 575302.85            | 424992.52             | 32°10'06.006"N | 104°13'24.825"W | 2.85             |          |
| 10455.00                     | 22.500             | 346.000        | 10363.90    | 500.23            | 476.57        | -225.68      | 575299.94            | 425002.93             | 32°10'06.109"N | 104°13'24.859"W | 17.62            |          |
| 10487.00                     | 26.300             | 344.000        | 10393.03    | 513.31            | 489.33        | -229.12      | 575296.50            | 425015.69             | 32°10'06.235"N | 104°13'24.898"W | 12.15            |          |
| 10519.00                     | 30.500             | 343.400        | 10421.18    | 528.32            | 503.94        | -233.39      | 575292.23            | 425030.29             | 32°10'06.379"N | 104°13'24.948"W | 13.16            |          |
| 10551.00                     | 34.800             | 343.000        | 10448.11    | 545.32            | 520.46        | -238.39      | 575287.24            | 425046.81             | 32°10'06.543"N | 104°13'25.006"W | 13.45            |          |
| 10582.00                     | 38.000             | 343.400        | 10473.06    | 563.44            | 538.07        | -243.70      | 575281.92            | 425064.42             | 32°10'06.717"N | 104°13'25.068"W | 10.35            |          |
| 10614.00                     | 42.400             | 346.100        | 10497.50    | 583.87            | 557.99        | -249.11      | 575276.51            | 425084.34             | 32°10'06.914"N | 104°13'25.130"W | 14.79            |          |
| 10646.00                     | 50.000             | 344.100        | 10519.63    | 606.72            | 580.29        | -255.07      | 575270.56            | 425106.63             | 32°10'07.135"N | 104°13'25.199"W | 24.17            |          |
| 10677.00                     | 56.600             | 340.600        | 10538.15    | 631.12            | 603.94        | -262.63      | 575263.00            | 425130.29             | 32°10'07.369"N | 104°13'25.287"W | 23.13            |          |
| 10709.00                     | 65.800             | 338.400        | 10553.55    | 658.33            | 630.17        | -272.46      | 575253.17            | 425156.51             | 32°10'07.629"N | 104°13'25.401"W | 29.37            |          |
| 10740.00                     | 72.500             | 341.900        | 10564.58    | 686.55            | 657.40        | -282.27      | 575243.36            | 425183.74             | 32°10'07.899"N | 104°13'25.515"W | 24.05            |          |
| 10772.00                     | 78.100             | 343.400        | 10572.70    | 716.98            | 686.94        | -291.49      | 575234.14            | 425213.27             | 32°10'08.191"N | 104°13'25.622"W | 18.08            |          |
| 10803.00                     | 80.200             | 343.400        | 10578.54    | 746.99            | 716.11        | -300.19      | 575225.44            | 425242.45             | 32°10'08.480"N | 104°13'25.723"W | 6.77             |          |
| 10835.00                     | 84.500             | 343.300        | 10582.80    | 778.23            | 746.49        | -309.27      | 575216.35            | 425272.82             | 32°10'08.780"N | 104°13'25.828"W | 13.44            |          |
| 10867.00                     | 88.300             | 343.500        | 10584.80    | 809.71            | 777.09        | -318.40      | 575207.23            | 425303.42             | 32°10'09.083"N | 104°13'25.934"W | 11.89            |          |
| 10962.00                     | 89.500             | 344.300        | 10586.63    | 903.47            | 868.35        | -344.74      | 575180.90            | 425394.67             | 32°10'09.986"N | 104°13'26.239"W | 1.52             |          |
| 10973.00                     | 89.800             | 344.300        | 10586.70    | 914.34            | 878.93        | -347.71      | 575177.92            | 425405.25             | 32°10'10.091"N | 104°13'26.274"W | 2.73             |          |
| 11070.00                     | 89.600             | 347.400        | 10587.20    | 1010.55           | 972.98        | -371.42      | 575154.21            | 425499.29             | 32°10'11.022"N | 104°13'26.548"W | 3.20             |          |
| 11165.00                     | 89.600             | 351.100        | 10587.87    | 1105.32           | 1066.29       | -389.14      | 575136.50            | 425592.60             | 32°10'11.946"N | 104°13'26.753"W | 3.89             |          |
| 11260.00                     | 89.800             | 352.300        | 10588.36    | 1200.28           | 1160.29       | -402.85      | 575122.79            | 425686.59             | 32°10'12.876"N | 104°13'26.912"W | 1.28             |          |
| 11355.00                     | 90.000             | 352.600        | 10588.53    | 1295.28           | 1254.47       | -415.33      | 575110.30            | 425780.76             | 32°10'13.808"N | 104°13'27.056"W | 0.38             |          |
| 11449.00                     | 89.800             | 353.000        | 10588.69    | 1389.28           | 1347.73       | -427.11      | 575098.52            | 425874.01             | 32°10'14.731"N | 104°13'27.192"W | 0.48             |          |



# Actual Wellpath Report

No. 3H AWP

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| REFERENCE WELLPATH IDENTIFICATION |                           |          |            |
|-----------------------------------|---------------------------|----------|------------|
| Operator                          | Cimarex Energy Co.        | Slot     | No. 3H SHL |
| Area                              | Eddy County, NM           | Well     | No. 3H     |
| Field                             | (TAOS) Sec 31, T24S, R27E | Wellbore | No. 3H AWB |
| Facility                          | TAOS Fed No. 3H           |          |            |

| WELLPATH DATA (168 stations) |                    |                |             |                   |               |              |                      |                       |                |                 |                  |              |
|------------------------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------------|-----------------------|----------------|-----------------|------------------|--------------|
| MD<br>[ft]                   | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | Vert Sect<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[US ft] | Grid North<br>[US ft] | Latitude       | Longitude       | DLS<br>[°/100ft] | Comments     |
| 11544.00                     | 89.900             | 355.900        | 10588.94    | 1484.24           | 1442.27       | -436.30      | 575089.34            | 425968.54             | 32°10'15.667"N | 104°13'27.298"W | 3.05             |              |
| 11639.00                     | 90.000             | 357.300        | 10589.03    | 1579.06           | 1537.10       | -441.94      | 575083.70            | 426063.36             | 32°10'16.605"N | 104°13'27.362"W | 1.48             |              |
| 11734.00                     | 89.900             | 358.700        | 10589.11    | 1673.71           | 1632.04       | -445.25      | 575080.39            | 426158.29             | 32°10'17.544"N | 104°13'27.399"W | 1.48             |              |
| 11829.00                     | 90.100             | 359.000        | 10589.11    | 1768.23           | 1727.02       | -447.16      | 575078.48            | 426253.27             | 32°10'18.484"N | 104°13'27.420"W | 0.38             |              |
| 11924.00                     | 90.200             | 359.700        | 10588.86    | 1862.67           | 1822.02       | -448.24      | 575077.41            | 426348.25             | 32°10'19.424"N | 104°13'27.432"W | 0.74             |              |
| 12019.00                     | 90.100             | 359.900        | 10588.61    | 1957.02           | 1917.02       | -448.57      | 575077.07            | 426443.24             | 32°10'20.364"N | 104°13'27.435"W | 0.24             |              |
| 12114.00                     | 90.100             | 358.900        | 10588.45    | 2051.44           | 2012.01       | -449.56      | 575076.08            | 426538.23             | 32°10'21.304"N | 104°13'27.445"W | 1.05             |              |
| 12209.00                     | 90.600             | 358.500        | 10587.86    | 2145.99           | 2106.98       | -451.72      | 575073.92            | 426633.19             | 32°10'22.244"N | 104°13'27.469"W | 0.67             |              |
| 12304.00                     | 89.600             | 1.100          | 10587.70    | 2240.33           | 2201.97       | -452.05      | 575073.59            | 426728.17             | 32°10'23.184"N | 104°13'27.472"W | 2.93             |              |
| 12398.00                     | 90.700             | 2.100          | 10587.45    | 2333.29           | 2295.93       | -449.42      | 575076.22            | 426822.12             | 32°10'24.114"N | 104°13'27.440"W | 1.58             |              |
| 12493.00                     | 90.200             | 359.700        | 10586.71    | 2427.41           | 2390.91       | -447.93      | 575077.71            | 426917.09             | 32°10'25.054"N | 104°13'27.422"W | 2.58             |              |
| 12588.00                     | 89.700             | 355.300        | 10586.79    | 2522.10           | 2485.80       | -452.07      | 575073.57            | 427011.97             | 32°10'25.993"N | 104°13'27.469"W | 4.66             |              |
| 12682.00                     | 90.200             | 352.500        | 10586.87    | 2616.08           | 2579.26       | -462.06      | 575063.58            | 427105.42             | 32°10'26.917"N | 104°13'27.584"W | 3.03             |              |
| 12778.00                     | 89.300             | 351.500        | 10587.29    | 2712.06           | 2674.32       | -475.42      | 575050.22            | 427200.47             | 32°10'27.858"N | 104°13'27.738"W | 1.40             |              |
| 12873.00                     | 89.500             | 352.800        | 10588.29    | 2807.04           | 2768.42       | -488.40      | 575037.25            | 427294.57             | 32°10'28.790"N | 104°13'27.888"W | 1.38             |              |
| 12967.00                     | 91.300             | 351.100        | 10587.63    | 2901.01           | 2861.49       | -501.56      | 575024.09            | 427387.62             | 32°10'29.711"N | 104°13'28.040"W | 2.63             |              |
| 13062.00                     | 90.600             | 355.800        | 10586.05    | 2995.97           | 2955.82       | -512.39      | 575013.26            | 427481.95             | 32°10'30.644"N | 104°13'28.165"W | 5.00             |              |
| 13158.00                     | 90.200             | 358.300        | 10585.38    | 3091.73           | 3051.69       | -517.33      | 575008.32            | 427577.81             | 32°10'31.593"N | 104°13'28.221"W | 2.64             |              |
| 13253.00                     | 89.500             | 2.000          | 10585.63    | 3186.00           | 3146.67       | -517.08      | 575008.57            | 427672.78             | 32°10'32.533"N | 104°13'28.217"W | 3.96             |              |
| 13348.00                     | 90.100             | 3.600          | 10585.96    | 3279.64           | 3241.55       | -512.44      | 575013.21            | 427767.66             | 32°10'33.472"N | 104°13'28.162"W | 1.80             |              |
| 13443.00                     | 90.100             | 3.500          | 10585.80    | 3373.06           | 3336.37       | -506.56      | 575019.09            | 427862.46             | 32°10'34.410"N | 104°13'28.093"W | 0.11             |              |
| 13537.00                     | 90.100             | 3.400          | 10585.63    | 3465.53           | 3430.20       | -500.90      | 575024.74            | 427956.29             | 32°10'35.338"N | 104°13'28.026"W | 0.11             |              |
| 13632.00                     | 89.600             | 3.600          | 10585.88    | 3558.97           | 3525.02       | -495.10      | 575030.54            | 428051.10             | 32°10'36.276"N | 104°13'27.957"W | 0.57             |              |
| 13727.00                     | 89.700             | 4.800          | 10586.46    | 3652.19           | 3619.76       | -488.15      | 575037.50            | 428145.83             | 32°10'37.214"N | 104°13'27.875"W | 1.27             |              |
| 13822.00                     | 89.600             | 3.600          | 10587.04    | 3745.41           | 3714.50       | -481.19      | 575044.46            | 428240.56             | 32°10'38.151"N | 104°13'27.793"W | 1.27             |              |
| 13917.00                     | 89.900             | 0.400          | 10587.46    | 3839.25           | 3809.43       | -477.87      | 575047.77            | 428335.48             | 32°10'39.091"N | 104°13'27.753"W | 3.38             |              |
| 14011.00                     | 89.600             | 358.300        | 10587.87    | 3932.69           | 3903.42       | -478.94      | 575046.70            | 428429.46             | 32°10'40.021"N | 104°13'27.765"W | 2.26             |              |
| 14106.00                     | 89.500             | 356.200        | 10588.61    | 4027.43           | 3998.30       | -483.50      | 575042.15            | 428524.34             | 32°10'40.959"N | 104°13'27.816"W | 2.21             |              |
| 14201.00                     | 89.600             | 356.200        | 10589.36    | 4122.29           | 4093.09       | -489.79      | 575035.85            | 428619.12             | 32°10'41.897"N | 104°13'27.889"W | 0.11             |              |
| 14296.00                     | 89.500             | 356.600        | 10590.11    | 4217.13           | 4187.90       | -495.76      | 575029.89            | 428713.92             | 32°10'42.836"N | 104°13'27.957"W | 0.43             |              |
| 14391.00                     | 89.600             | 355.200        | 10590.85    | 4312.01           | 4282.65       | -502.55      | 575023.10            | 428808.66             | 32°10'43.773"N | 104°13'28.035"W | 1.48             |              |
| 14449.00                     | 89.800             | 354.900        | 10591.16    | 4369.98           | 4340.44       | -507.55      | 575018.09            | 428866.44             | 32°10'44.345"N | 104°13'28.092"W | 0.62             |              |
| 14525.00                     | 89.800             | 354.900        | 10591.42    | 4445.94           | 4416.13       | -514.31      | 575011.34            | 428942.13             | 32°10'45.094"N | 104°13'28.170"W | 0.00             | Proj. to Bit |



# Actual Wellpath Report

No. 3H AWP

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## REFERENCE WELLPATH IDENTIFICATION

|          |                           |          |            |
|----------|---------------------------|----------|------------|
| Operator | Cimarex Energy Co.        | Slot     | No. 3H SHL |
| Area     | Eddy County, NM           | Well     | No. 3H     |
| Field    | (TAOS) Sec 31, T24S, R27E | Wellbore | No. 3H AWB |
| Facility | TAOS Fed No. 3H           |          |            |

## TARGETS

| Name         | MD<br>[ft] | TVD<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[US ft] | Grid North<br>[US ft] | Latitude       | Longitude       | Shape |
|--------------|------------|-------------|---------------|--------------|----------------------|-----------------------|----------------|-----------------|-------|
| No. 3H TGT 1 |            | 10439.00    | 508.95        | -287.43      | 575238.20            | 425035.30             | 32°10'06.430"N | 104°13'25.577"W | point |
| No. 3H PBHL  |            | 10601.00    | 4420.89       | -534.90      | 574990.75            | 428946.89             | 32°10'45.142"N | 104°13'28.410"W | point |

## WELLPATH COMPOSITION - Ref Wellbore: No. 3H AWB Ref Wellpath: No. 3H AWP

| Start MD<br>[ft] | End MD<br>[ft] | Positional Uncertainty Model           | Log Name/Comment | Wellbore   |
|------------------|----------------|----------------------------------------|------------------|------------|
| 28.50            | 8237.00        | Generic gyro - northseeking (Standard) | Gyro             | No. 3H AWB |
| 8237.00          | 10354.00       | NaviTrak (Standard)                    | MWD_PH           | No. 3H AWB |
| 10354.00         | 14525.00       | NaviTrak (Standard)                    | MWD_LT           | No. 3H AWB |