

DISTRICT I  
1625 N. French Dr., Hobbs, NM 88240  
Phone (576) 393-0161 Fax: (576) 393-0720

DISTRICT II  
811 S. First St., Artesia, NM 88210  
Phone (505) 746-1203 Fax: (505) 746-0720

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone (505) 476-5400 Fax: (505) 476-5408

State of New Mexico  
Energy, Minerals and Natural Resources Department

HOBBS OCD

Form C-102  
Revised August 1, 2011

Submit one copy to appropriate  
District Office

OIL CONSERVATION DIVISION

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

30-025-

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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

|                                   |                                                |                                              |
|-----------------------------------|------------------------------------------------|----------------------------------------------|
| API Number<br><b>30-025-40665</b> | Pool Code<br><b>96603</b>                      | Pool Name<br><b>Triste Draw; Bone Spring</b> |
| Property Code<br><b>38694</b>     | Property Name<br><b>TRISTE DRAW "36" STATE</b> | Well Number<br><b>2</b>                      |
| OCRID No.<br><b>215099</b>        | Operator Name<br><b>CIMAREX ENERGY CO.</b>     | Elevation<br><b>3686'</b>                    |

Surface Location

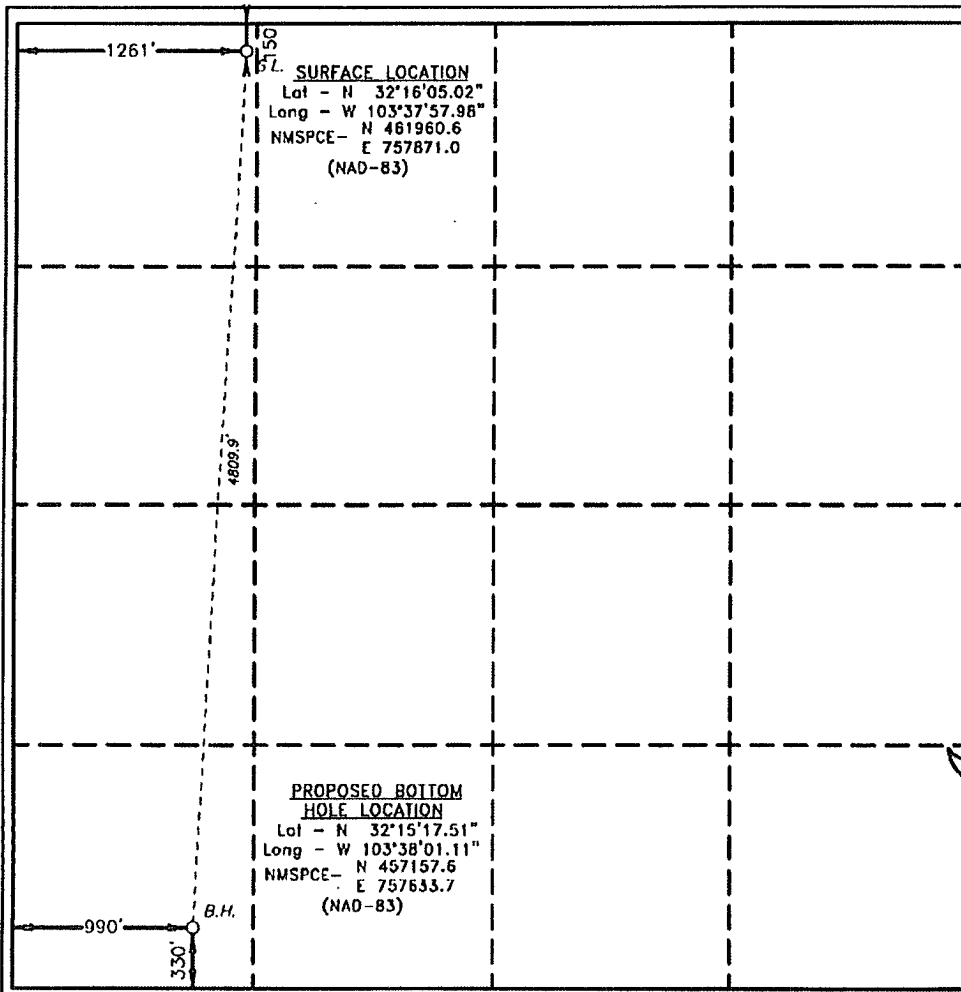
| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| D             | 36      | 23 S     | 32 E  |         | 150           | NORTH            | 1261          | WEST           | LEA    |

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             | 36      | 23 S     | 32 E  |         | 330           | SOUTH            | 990           | WEST           | LEA    |

|                               |                 |                    |           |
|-------------------------------|-----------------|--------------------|-----------|
| Dedicated Acres<br><b>160</b> | 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



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

*Adela Molina* 7/2/12  
Signature Date

Adela Molina

Printed Name

amolina@cimarex.com

Email Address

SURVEYOR CERTIFICATION

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.

*Gary L. Jones* FEBRUARY 28, 2012  
Date Signature

Seal of Professional Surveyor

*Gary L. Jones* 7977  
Signature

Certificate No. Gary L. Jones 7977

BASIN SURVEYS

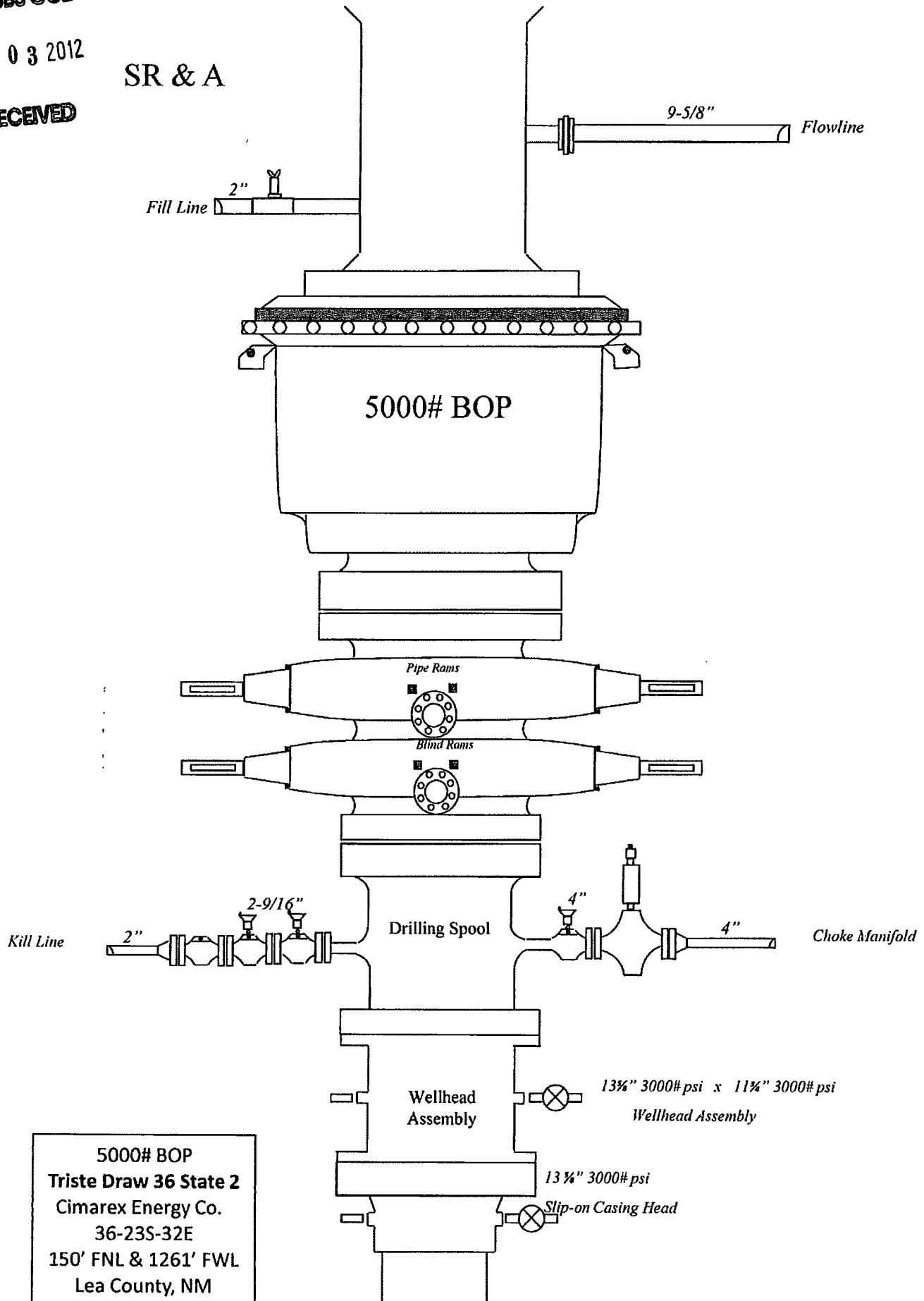
HOBBS OCD

JUL 03 2012

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SR & A

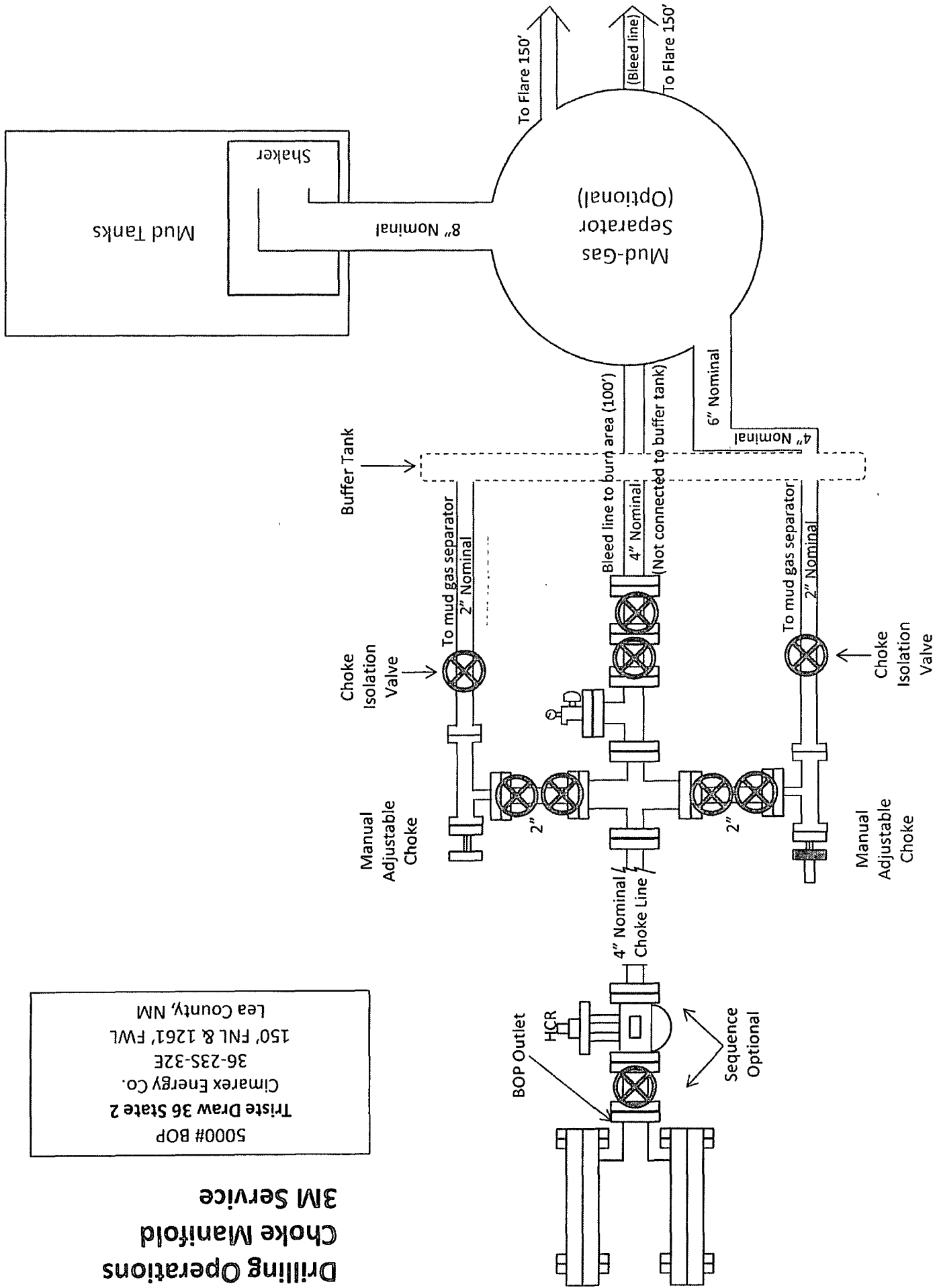
30-025-40665



# Drilling Operations Choke Manifold

3M Service

5000# BOP  
Triste Draw 36 State 2  
Cimarex Energy Co.  
36-23S-32E  
150' FNL & 1261' FWL  
Lea County, NM





HOBBS OCD

# Cimarex Energy Co.

Location: Lea County, NM  
Field: (Triste Draw) Sec 36, T23S, R32E  
Facility: Triste Draw 36 State No 2

Slot: No 2 SHL  
Well: No.2  
Wellbore: No 2 PWB



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## Well Profile Data

| Design Comment | MD (ft)  | Inc (°) | Az (°)  | TVD (ft) | Local N (ft) | Local E (ft) | DLS (7100ft) | VS (ft) |
|----------------|----------|---------|---------|----------|--------------|--------------|--------------|---------|
| Tie On         | 0.00     | 0.000   | 182.828 | 0.00     | 0.00         | 0.00         | 0.00         | 0.00    |
| Est KOP        | 9389.00  | 0.000   | 182.828 | 9389.00  | 0.00         | 0.00         | 0.00         | 0.00    |
| EOC            | 9838.25  | 90.000  | 182.828 | 9675.00  | -285.65      | -14.11       | 20.03        | 286.00  |
| No 2 PBHL      | 14361.29 | 90.000  | 182.828 | 9675.00  | -4803.19     | -237.31      | 0.00         | 4809.05 |

Plot reference wellpath is Rev-A 0

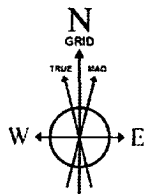
True vertical depths are referenced to Rig on No 2 SHL (RT) | Grid System: NAD83 / TM New Mexico SP, Eastern Zone (3001), US feet

Measured depths are referenced to Rig on No 2 SHL (RT) | North Reference: Grid north

Rig on No 2 SHL (RT) to Mean Sea Level: 3686 feet | Scale: True distance

Mean Sea Level to Mud line (At Slot, No 2 SHL): -3686 feet | Depths are in feet

Coordinates are in feet referenced to Slot | Created by: gentry on 4/10/2012

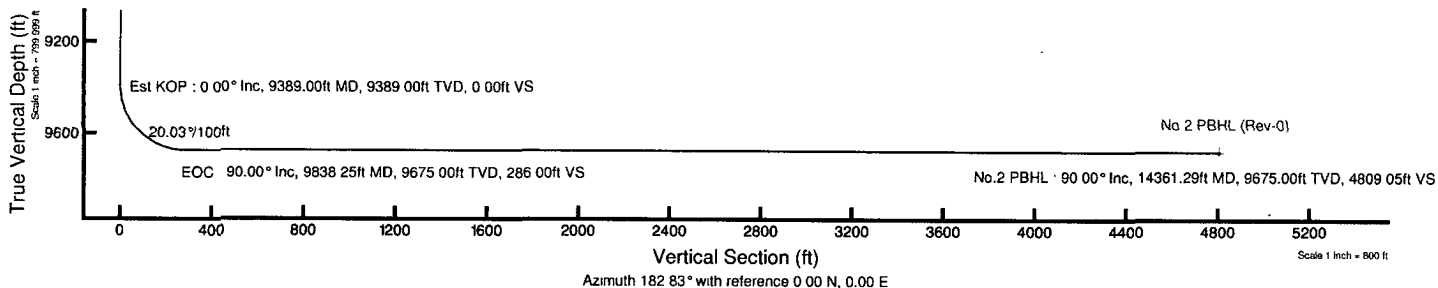
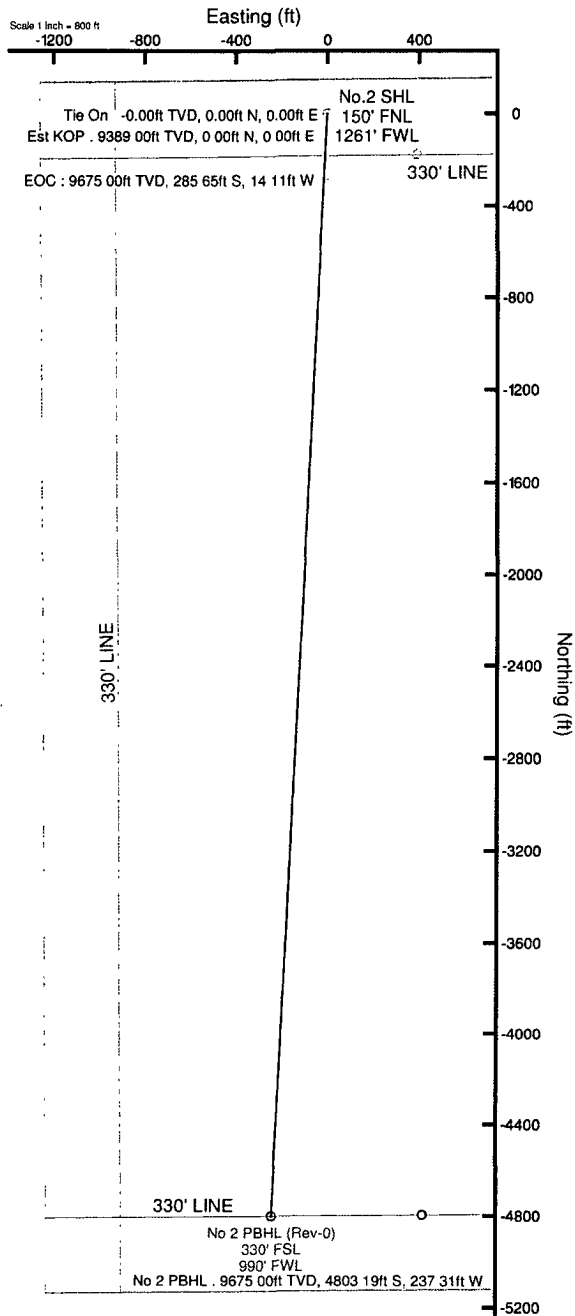


BGGM (1945.0 to 2013.0) Dip: 60.16° Field: 48556.4 nT  
Magnetic North is 7.60 degrees East of True North (at 4/10/2012)  
Grid North is 0.37 degrees East of True North

To correct azimuth from True to Grid subtract 0.37 degrees

To correct azimuth from Magnetic to Grid add 7.22 degrees

For example: if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 7.22 = 97.22





# Planned Wellpath Report

Rev-A.0  
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## REFERENCE WELLPATH IDENTIFICATION

|          |                                  |          |          |
|----------|----------------------------------|----------|----------|
| Operator | Cimarex Energy Co.               | Slot     | No.2 SHL |
| Area     | Lea County, NM                   | Well     | No.2     |
| Field    | (Triste Draw) Sec 36, T23S, R32E | Wellbore | No.2 PWB |
| Facility | Triste Draw 36 State No.2        |          |          |

## 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               | 0.999963                                               | Report Generated     | 4/10/2012 at 3:23:05 PM |
| Convergence at slot | 0.37° East                                             | Database/Source file | WA Midland/No.2_PWB.xml |

## WELLPATH LOCATION

|                       | Local coordinates |          | Grid coordinates |                 | Geographic coordinates |                 |
|-----------------------|-------------------|----------|------------------|-----------------|------------------------|-----------------|
|                       | North[ft]         | East[ft] | Easting[US ft]   | Northing[US ft] | Latitude               | Longitude       |
| Slot Location         | 0.00              | 0.00     | 757871.00        | 461960.60       | 32°16'05.022"N         | 103°37'57.983"W |
| Facility Reference Pt |                   |          | 757871.00        | 461960.60       | 32°16'05.022"N         | 103°37'57.983"W |
| Field Reference Pt    |                   |          | 756986.40        | 461771.90       | 32°16'03.211"N         | 103°38'08.299"W |

## WELLPATH DATUM

|                          |                      |                                                     |                   |
|--------------------------|----------------------|-----------------------------------------------------|-------------------|
| Calculation method       | Minimum curvature    | Rig on No.2 SHL (RT) to Facility Vertical Datum     | 0.00ft            |
| Horizontal Reference Pt  | Slot                 | Rig on No.2 SHL (RT) to Mean Sea Level              | 3686.00ft         |
| Vertical Reference Pt    | Rig on No.2 SHL (RT) | Rig on No.2 SHL (RT) to Mud Line at Slot (No.2 SHL) | 0.00ft            |
| MD Reference Pt          | Rig on No.2 SHL (RT) | Section Origin                                      | N 0.00, E 0.00 ft |
| Field Vertical Reference | Mean Sea Level       | Section Azimuth                                     | 182.83°           |



# Planned Wellpath Report

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## REFERENCE WELLPATH IDENTIFICATION

|          |                                  |          |          |
|----------|----------------------------------|----------|----------|
| Operator | Cimarex Energy Co.               | Slot     | No.2 SHL |
| Area     | Lea County, NM                   | Well     | No.2     |
| Field    | (Triste Draw) Sec 36, T23S, R32E | Wellbore | No.2 PWB |
| Facility | Triste Draw 36 State No.2        |          |          |

## WELLPATH DATA (150 stations) † = interpolated/extrapolated station

| MD [ft]  | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude       | Longitude       | DLS [°/100ft] | Comments |
|----------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|----------------|-----------------|---------------|----------|
| 0.00     | 0.000           | 182.828     | 0.00     | 0.00           | 0.00       | 0.00      | 757871.00         | 461960.60          | 32°16'05.022"N | 103°37'57.983"W | 0.00          | Tie On   |
| 100.00†  | 0.000           | 182.828     | 100.00   | 0.00           | 0.00       | 0.00      | 757871.00         | 461960.60          | 32°16'05.022"N | 103°37'57.983"W | 0.00          |          |
| 200.00†  | 0.000           | 182.828     | 200.00   | 0.00           | 0.00       | 0.00      | 757871.00         | 461960.60          | 32°16'05.022"N | 103°37'57.983"W | 0.00          |          |
| 300.00†  | 0.000           | 182.828     | 300.00   | 0.00           | 0.00       | 0.00      | 757871.00         | 461960.60          | 32°16'05.022"N | 103°37'57.983"W | 0.00          |          |
| 400.00†  | 0.000           | 182.828     | 400.00   | 0.00           | 0.00       | 0.00      | 757871.00         | 461960.60          | 32°16'05.022"N | 103°37'57.983"W | 0.00          |          |
| 500.00†  | 0.000           | 182.828     | 500.00   | 0.00           | 0.00       | 0.00      | 757871.00         | 461960.60          | 32°16'05.022"N | 103°37'57.983"W | 0.00          |          |
| 600.00†  | 0.000           | 182.828     | 600.00   | 0.00           | 0.00       | 0.00      | 757871.00         | 461960.60          | 32°16'05.022"N | 103°37'57.983"W | 0.00          |          |
| 700.00†  | 0.000           | 182.828     | 700.00   | 0.00           | 0.00       | 0.00      | 757871.00         | 461960.60          | 32°16'05.022"N | 103°37'57.983"W | 0.00          |          |
| 800.00†  | 0.000           | 182.828     | 800.00   | 0.00           | 0.00       | 0.00      | 757871.00         | 461960.60          | 32°16'05.022"N | 103°37'57.983"W | 0.00          |          |
| 900.00†  | 0.000           | 182.828     | 900.00   | 0.00           | 0.00       | 0.00      | 757871.00         | 461960.60          | 32°16'05.022"N | 103°37'57.983"W | 0.00          |          |
| 1000.00† | 0.000           | 182.828     | 1000.00  | 0.00           | 0.00       | 0.00      | 757871.00         | 461960.60          | 32°16'05.022"N | 103°37'57.983"W | 0.00          |          |
| 1100.00† | 0.000           | 182.828     | 1100.00  | 0.00           | 0.00       | 0.00      | 757871.00         | 461960.60          | 32°16'05.022"N | 103°37'57.983"W | 0.00          |          |
| 1200.00† | 0.000           | 182.828     | 1200.00  | 0.00           | 0.00       | 0.00      | 757871.00         | 461960.60          | 32°16'05.022"N | 103°37'57.983"W | 0.00          |          |
| 1220.00† | 0.000           | 182.828     | 1220.00  | 0.00           | 0.00       | 0.00      | 757871.00         | 461960.60          | 32°16'05.022"N | 103°37'57.983"W | 0.00          | Rustler  |
| 1300.00† | 0.000           | 182.828     | 1300.00  | 0.00           | 0.00       | 0.00      | 757871.00         | 461960.60          | 32°16'05.022"N | 103°37'57.983"W | 0.00          |          |
| 1400.00† | 0.000           | 182.828     | 1400.00  | 0.00           | 0.00       | 0.00      | 757871.00         | 461960.60          | 32°16'05.022"N | 103°37'57.983"W | 0.00          |          |
| 1500.00† | 0.000           | 182.828     | 1500.00  | 0.00           | 0.00       | 0.00      | 757871.00         | 461960.60          | 32°16'05.022"N | 103°37'57.983"W | 0.00          |          |
| 1600.00† | 0.000           | 182.828     | 1600.00  | 0.00           | 0.00       | 0.00      | 757871.00         | 461960.60          | 32°16'05.022"N | 103°37'57.983"W | 0.00          |          |
| 1700.00† | 0.000           | 182.828     | 1700.00  | 0.00           | 0.00       | 0.00      | 757871.00         | 461960.60          | 32°16'05.022"N | 103°37'57.983"W | 0.00          |          |
| 1800.00† | 0.000           | 182.828     | 1800.00  | 0.00           | 0.00       | 0.00      | 757871.00         | 461960.60          | 32°16'05.022"N | 103°37'57.983"W | 0.00          |          |
| 1900.00† | 0.000           | 182.828     | 1900.00  | 0.00           | 0.00       | 0.00      | 757871.00         | 461960.60          | 32°16'05.022"N | 103°37'57.983"W | 0.00          |          |
| 2000.00† | 0.000           | 182.828     | 2000.00  | 0.00           | 0.00       | 0.00      | 757871.00         | 461960.60          | 32°16'05.022"N | 103°37'57.983"W | 0.00          |          |
| 2100.00† | 0.000           | 182.828     | 2100.00  | 0.00           | 0.00       | 0.00      | 757871.00         | 461960.60          | 32°16'05.022"N | 103°37'57.983"W | 0.00          |          |
| 2200.00† | 0.000           | 182.828     | 2200.00  | 0.00           | 0.00       | 0.00      | 757871.00         | 461960.60          | 32°16'05.022"N | 103°37'57.983"W | 0.00          |          |
| 2300.00† | 0.000           | 182.828     | 2300.00  | 0.00           | 0.00       | 0.00      | 757871.00         | 461960.60          | 32°16'05.022"N | 103°37'57.983"W | 0.00          |          |
| 2400.00† | 0.000           | 182.828     | 2400.00  | 0.00           | 0.00       | 0.00      | 757871.00         | 461960.60          | 32°16'05.022"N | 103°37'57.983"W | 0.00          |          |
| 2500.00† | 0.000           | 182.828     | 2500.00  | 0.00           | 0.00       | 0.00      | 757871.00         | 461960.60          | 32°16'05.022"N | 103°37'57.983"W | 0.00          |          |
| 2600.00† | 0.000           | 182.828     | 2600.00  | 0.00           | 0.00       | 0.00      | 757871.00         | 461960.60          | 32°16'05.022"N | 103°37'57.983"W | 0.00          |          |
| 2700.00† | 0.000           | 182.828     | 2700.00  | 0.00           | 0.00       | 0.00      | 757871.00         | 461960.60          | 32°16'05.022"N | 103°37'57.983"W | 0.00          |          |
| 2800.00† | 0.000           | 182.828     | 2800.00  | 0.00           | 0.00       | 0.00      | 757871.00         | 461960.60          | 32°16'05.022"N | 103°37'57.983"W | 0.00          |          |
| 2900.00† | 0.000           | 182.828     | 2900.00  | 0.00           | 0.00       | 0.00      | 757871.00         | 461960.60          | 32°16'05.022"N | 103°37'57.983"W | 0.00          |          |
| 3000.00† | 0.000           | 182.828     | 3000.00  | 0.00           | 0.00       | 0.00      | 757871.00         | 461960.60          | 32°16'05.022"N | 103°37'57.983"W | 0.00          |          |
| 3100.00† | 0.000           | 182.828     | 3100.00  | 0.00           | 0.00       | 0.00      | 757871.00         | 461960.60          | 32°16'05.022"N | 103°37'57.983"W | 0.00          |          |
| 3200.00† | 0.000           | 182.828     | 3200.00  | 0.00           | 0.00       | 0.00      | 757871.00         | 461960.60          | 32°16'05.022"N | 103°37'57.983"W | 0.00          |          |
| 3300.00† | 0.000           | 182.828     | 3300.00  | 0.00           | 0.00       | 0.00      | 757871.00         | 461960.60          | 32°16'05.022"N | 103°37'57.983"W | 0.00          |          |
| 3400.00† | 0.000           | 182.828     | 3400.00  | 0.00           | 0.00       | 0.00      | 757871.00         | 461960.60          | 32°16'05.022"N | 103°37'57.983"W | 0.00          |          |
| 3500.00† | 0.000           | 182.828     | 3500.00  | 0.00           | 0.00       | 0.00      | 757871.00         | 461960.60          | 32°16'05.022"N | 103°37'57.983"W | 0.00          |          |
| 3600.00† | 0.000           | 182.828     | 3600.00  | 0.00           | 0.00       | 0.00      | 757871.00         | 461960.60          | 32°16'05.022"N | 103°37'57.983"W | 0.00          |          |
| 3700.00† | 0.000           | 182.828     | 3700.00  | 0.00           | 0.00       | 0.00      | 757871.00         | 461960.60          | 32°16'05.022"N | 103°37'57.983"W | 0.00          |          |
| 3800.00† | 0.000           | 182.828     | 3800.00  | 0.00           | 0.00       | 0.00      | 757871.00         | 461960.60          | 32°16'05.022"N | 103°37'57.983"W | 0.00          |          |
| 3900.00† | 0.000           | 182.828     | 3900.00  | 0.00           | 0.00       | 0.00      | 757871.00         | 461960.60          | 32°16'05.022"N | 103°37'57.983"W | 0.00          |          |
| 4000.00† | 0.000           | 182.828     | 4000.00  | 0.00           | 0.00       | 0.00      | 757871.00         | 461960.60          | 32°16'05.022"N | 103°37'57.983"W | 0.00          |          |
| 4100.00† | 0.000           | 182.828     | 4100.00  | 0.00           | 0.00       | 0.00      | 757871.00         | 461960.60          | 32°16'05.022"N | 103°37'57.983"W | 0.00          |          |
| 4200.00† | 0.000           | 182.828     | 4200.00  | 0.00           | 0.00       | 0.00      | 757871.00         | 461960.60          | 32°16'05.022"N | 103°37'57.983"W | 0.00          |          |
| 4300.00† | 0.000           | 182.828     | 4300.00  | 0.00           | 0.00       | 0.00      | 757871.00         | 461960.60          | 32°16'05.022"N | 103°37'57.983"W | 0.00          |          |



# Planned Wellpath Report

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| REFERENCE WELLPATH IDENTIFICATION |                                  |          |          |
|-----------------------------------|----------------------------------|----------|----------|
| Operator                          | Cimarex Energy Co.               | Slot     | No.2 SHL |
| Area                              | Lea County, NM                   | Well     | No.2     |
| Field                             | (Triste Draw) Sec 36, T23S, R32E | Wellbore | No.2 PWB |
| Facility                          | Triste Draw 36 State No.2        |          |          |

| WELLPATH DATA (150 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            |
| 4400.00†                                                           | 0.000              | 182.828        | 4400.00     | 0.00              | 0.00          | 0.00         | 757871.00            | 461960.60             | 32°16'05.022"N | 103°37'57.983"W | 0.00             |                     |
| 4500.00†                                                           | 0.000              | 182.828        | 4500.00     | 0.00              | 0.00          | 0.00         | 757871.00            | 461960.60             | 32°16'05.022"N | 103°37'57.983"W | 0.00             |                     |
| 4600.00†                                                           | 0.000              | 182.828        | 4600.00     | 0.00              | 0.00          | 0.00         | 757871.00            | 461960.60             | 32°16'05.022"N | 103°37'57.983"W | 0.00             |                     |
| 4700.00†                                                           | 0.000              | 182.828        | 4700.00     | 0.00              | 0.00          | 0.00         | 757871.00            | 461960.60             | 32°16'05.022"N | 103°37'57.983"W | 0.00             |                     |
| 4800.00†                                                           | 0.000              | 182.828        | 4800.00     | 0.00              | 0.00          | 0.00         | 757871.00            | 461960.60             | 32°16'05.022"N | 103°37'57.983"W | 0.00             |                     |
| 4900.00†                                                           | 0.000              | 182.828        | 4900.00     | 0.00              | 0.00          | 0.00         | 757871.00            | 461960.60             | 32°16'05.022"N | 103°37'57.983"W | 0.00             |                     |
| 5000.00†                                                           | 0.000              | 182.828        | 5000.00     | 0.00              | 0.00          | 0.00         | 757871.00            | 461960.60             | 32°16'05.022"N | 103°37'57.983"W | 0.00             | Delaware            |
| 5100.00†                                                           | 0.000              | 182.828        | 5100.00     | 0.00              | 0.00          | 0.00         | 757871.00            | 461960.60             | 32°16'05.022"N | 103°37'57.983"W | 0.00             |                     |
| 5200.00†                                                           | 0.000              | 182.828        | 5200.00     | 0.00              | 0.00          | 0.00         | 757871.00            | 461960.60             | 32°16'05.022"N | 103°37'57.983"W | 0.00             |                     |
| 5300.00†                                                           | 0.000              | 182.828        | 5300.00     | 0.00              | 0.00          | 0.00         | 757871.00            | 461960.60             | 32°16'05.022"N | 103°37'57.983"W | 0.00             |                     |
| 5400.00†                                                           | 0.000              | 182.828        | 5400.00     | 0.00              | 0.00          | 0.00         | 757871.00            | 461960.60             | 32°16'05.022"N | 103°37'57.983"W | 0.00             |                     |
| 5500.00†                                                           | 0.000              | 182.828        | 5500.00     | 0.00              | 0.00          | 0.00         | 757871.00            | 461960.60             | 32°16'05.022"N | 103°37'57.983"W | 0.00             |                     |
| 5600.00†                                                           | 0.000              | 182.828        | 5600.00     | 0.00              | 0.00          | 0.00         | 757871.00            | 461960.60             | 32°16'05.022"N | 103°37'57.983"W | 0.00             |                     |
| 5700.00†                                                           | 0.000              | 182.828        | 5700.00     | 0.00              | 0.00          | 0.00         | 757871.00            | 461960.60             | 32°16'05.022"N | 103°37'57.983"W | 0.00             |                     |
| 5800.00†                                                           | 0.000              | 182.828        | 5800.00     | 0.00              | 0.00          | 0.00         | 757871.00            | 461960.60             | 32°16'05.022"N | 103°37'57.983"W | 0.00             |                     |
| 5900.00†                                                           | 0.000              | 182.828        | 5900.00     | 0.00              | 0.00          | 0.00         | 757871.00            | 461960.60             | 32°16'05.022"N | 103°37'57.983"W | 0.00             |                     |
| 6000.00†                                                           | 0.000              | 182.828        | 6000.00     | 0.00              | 0.00          | 0.00         | 757871.00            | 461960.60             | 32°16'05.022"N | 103°37'57.983"W | 0.00             |                     |
| 6100.00†                                                           | 0.000              | 182.828        | 6100.00     | 0.00              | 0.00          | 0.00         | 757871.00            | 461960.60             | 32°16'05.022"N | 103°37'57.983"W | 0.00             |                     |
| 6200.00†                                                           | 0.000              | 182.828        | 6200.00     | 0.00              | 0.00          | 0.00         | 757871.00            | 461960.60             | 32°16'05.022"N | 103°37'57.983"W | 0.00             |                     |
| 6300.00†                                                           | 0.000              | 182.828        | 6300.00     | 0.00              | 0.00          | 0.00         | 757871.00            | 461960.60             | 32°16'05.022"N | 103°37'57.983"W | 0.00             |                     |
| 6400.00†                                                           | 0.000              | 182.828        | 6400.00     | 0.00              | 0.00          | 0.00         | 757871.00            | 461960.60             | 32°16'05.022"N | 103°37'57.983"W | 0.00             |                     |
| 6500.00†                                                           | 0.000              | 182.828        | 6500.00     | 0.00              | 0.00          | 0.00         | 757871.00            | 461960.60             | 32°16'05.022"N | 103°37'57.983"W | 0.00             |                     |
| 6600.00†                                                           | 0.000              | 182.828        | 6600.00     | 0.00              | 0.00          | 0.00         | 757871.00            | 461960.60             | 32°16'05.022"N | 103°37'57.983"W | 0.00             |                     |
| 6700.00†                                                           | 0.000              | 182.828        | 6700.00     | 0.00              | 0.00          | 0.00         | 757871.00            | 461960.60             | 32°16'05.022"N | 103°37'57.983"W | 0.00             |                     |
| 6800.00†                                                           | 0.000              | 182.828        | 6800.00     | 0.00              | 0.00          | 0.00         | 757871.00            | 461960.60             | 32°16'05.022"N | 103°37'57.983"W | 0.00             |                     |
| 6900.00†                                                           | 0.000              | 182.828        | 6900.00     | 0.00              | 0.00          | 0.00         | 757871.00            | 461960.60             | 32°16'05.022"N | 103°37'57.983"W | 0.00             |                     |
| 7000.00†                                                           | 0.000              | 182.828        | 7000.00     | 0.00              | 0.00          | 0.00         | 757871.00            | 461960.60             | 32°16'05.022"N | 103°37'57.983"W | 0.00             |                     |
| 7100.00†                                                           | 0.000              | 182.828        | 7100.00     | 0.00              | 0.00          | 0.00         | 757871.00            | 461960.60             | 32°16'05.022"N | 103°37'57.983"W | 0.00             |                     |
| 7200.00†                                                           | 0.000              | 182.828        | 7200.00     | 0.00              | 0.00          | 0.00         | 757871.00            | 461960.60             | 32°16'05.022"N | 103°37'57.983"W | 0.00             |                     |
| 7300.00†                                                           | 0.000              | 182.828        | 7300.00     | 0.00              | 0.00          | 0.00         | 757871.00            | 461960.60             | 32°16'05.022"N | 103°37'57.983"W | 0.00             |                     |
| 7400.00†                                                           | 0.000              | 182.828        | 7400.00     | 0.00              | 0.00          | 0.00         | 757871.00            | 461960.60             | 32°16'05.022"N | 103°37'57.983"W | 0.00             |                     |
| 7500.00†                                                           | 0.000              | 182.828        | 7500.00     | 0.00              | 0.00          | 0.00         | 757871.00            | 461960.60             | 32°16'05.022"N | 103°37'57.983"W | 0.00             |                     |
| 7600.00†                                                           | 0.000              | 182.828        | 7600.00     | 0.00              | 0.00          | 0.00         | 757871.00            | 461960.60             | 32°16'05.022"N | 103°37'57.983"W | 0.00             |                     |
| 7700.00†                                                           | 0.000              | 182.828        | 7700.00     | 0.00              | 0.00          | 0.00         | 757871.00            | 461960.60             | 32°16'05.022"N | 103°37'57.983"W | 0.00             |                     |
| 7800.00†                                                           | 0.000              | 182.828        | 7800.00     | 0.00              | 0.00          | 0.00         | 757871.00            | 461960.60             | 32°16'05.022"N | 103°37'57.983"W | 0.00             |                     |
| 7900.00†                                                           | 0.000              | 182.828        | 7900.00     | 0.00              | 0.00          | 0.00         | 757871.00            | 461960.60             | 32°16'05.022"N | 103°37'57.983"W | 0.00             |                     |
| 8000.00†                                                           | 0.000              | 182.828        | 8000.00     | 0.00              | 0.00          | 0.00         | 757871.00            | 461960.60             | 32°16'05.022"N | 103°37'57.983"W | 0.00             |                     |
| 8100.00†                                                           | 0.000              | 182.828        | 8100.00     | 0.00              | 0.00          | 0.00         | 757871.00            | 461960.60             | 32°16'05.022"N | 103°37'57.983"W | 0.00             |                     |
| 8200.00†                                                           | 0.000              | 182.828        | 8200.00     | 0.00              | 0.00          | 0.00         | 757871.00            | 461960.60             | 32°16'05.022"N | 103°37'57.983"W | 0.00             |                     |
| 8300.00†                                                           | 0.000              | 182.828        | 8300.00     | 0.00              | 0.00          | 0.00         | 757871.00            | 461960.60             | 32°16'05.022"N | 103°37'57.983"W | 0.00             |                     |
| 8400.00†                                                           | 0.000              | 182.828        | 8400.00     | 0.00              | 0.00          | 0.00         | 757871.00            | 461960.60             | 32°16'05.022"N | 103°37'57.983"W | 0.00             |                     |
| 8500.00†                                                           | 0.000              | 182.828        | 8500.00     | 0.00              | 0.00          | 0.00         | 757871.00            | 461960.60             | 32°16'05.022"N | 103°37'57.983"W | 0.00             |                     |
| 8575.00†                                                           | 0.000              | 182.828        | 8575.00     | 0.00              | 0.00          | 0.00         | 757871.00            | 461960.60             | 32°16'05.022"N | 103°37'57.983"W | 0.00             | Basal Brushy Canyon |
| 8600.00†                                                           | 0.000              | 182.828        | 8600.00     | 0.00              | 0.00          | 0.00         | 757871.00            | 461960.60             | 32°16'05.022"N | 103°37'57.983"W | 0.00             |                     |
| 8700.00†                                                           | 0.000              | 182.828        | 8700.00     | 0.00              | 0.00          | 0.00         | 757871.00            | 461960.60             | 32°16'05.022"N | 103°37'57.983"W | 0.00             |                     |





# Planned Wellpath Report

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**BAKER  
HUGHES**

| REFERENCE WELLPATH IDENTIFICATION |                                  |          |          |
|-----------------------------------|----------------------------------|----------|----------|
| Operator                          | Cimarex Energy Co.               | Slot     | No.2 SHL |
| Area                              | Lea County, NM                   | Well     | No.2     |
| Field                             | (Triste Draw) Sec 36, T23S, R32E | Wellbore | No.2 PWB |
| Facility                          | Triste Draw 36 State No.2        |          |          |

## WELLPATH DATA (150 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                |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------------|-----------------------|----------------|-----------------|------------------|-------------------------|
| 8800.00†   | 0.000              | 182.828        | 8800.00     | 0.00              | 0.00          | 0.00         | 757871.00            | 461960.60             | 32°16'05.022"N | 103°37'57.983"W | 0.00             | Bone Spring             |
| 8900.00†   | 0.000              | 182.828        | 8900.00     | 0.00              | 0.00          | 0.00         | 757871.00            | 461960.60             | 32°16'05.022"N | 103°37'57.983"W | 0.00             |                         |
| 9000.00†   | 0.000              | 182.828        | 9000.00     | 0.00              | 0.00          | 0.00         | 757871.00            | 461960.60             | 32°16'05.022"N | 103°37'57.983"W | 0.00             |                         |
| 9100.00†   | 0.000              | 182.828        | 9100.00     | 0.00              | 0.00          | 0.00         | 757871.00            | 461960.60             | 32°16'05.022"N | 103°37'57.983"W | 0.00             |                         |
| 9200.00†   | 0.000              | 182.828        | 9200.00     | 0.00              | 0.00          | 0.00         | 757871.00            | 461960.60             | 32°16'05.022"N | 103°37'57.983"W | 0.00             |                         |
| 9250.00†   | 0.000              | 182.828        | 9250.00     | 0.00              | 0.00          | 0.00         | 757871.00            | 461960.60             | 32°16'05.022"N | 103°37'57.983"W | 0.00             | Upper Bone Spring Shale |
| 9300.00†   | 0.000              | 182.828        | 9300.00     | 0.00              | 0.00          | 0.00         | 757871.00            | 461960.60             | 32°16'05.022"N | 103°37'57.983"W | 0.00             |                         |
| 9389.00    | 0.000              | 182.828        | 9389.00     | 0.00              | 0.00          | 0.00         | 757871.00            | 461960.60             | 32°16'05.022"N | 103°37'57.983"W | 0.00             | Est KOP                 |
| 9400.00†   | 2.204              | 182.828        | 9400.00     | 0.21              | -0.21         | -0.01        | 757870.99            | 461960.39             | 32°16'05.020"N | 103°37'57.983"W | 20.03            |                         |
| 9500.00†   | 22.237             | 182.828        | 9497.23     | 21.27             | -21.25        | -1.05        | 757869.95            | 461939.36             | 32°16'04.811"N | 103°37'57.996"W | 20.03            |                         |
| 9600.00†   | 42.271             | 182.828        | 9581.37     | 74.37             | -74.28        | -3.67        | 757867.33            | 461886.33             | 32°16'04.287"N | 103°37'58.031"W | 20.03            |                         |
| 9700.00†   | 62.304             | 182.828        | 9642.23     | 153.07            | -152.89       | -7.55        | 757863.45            | 461807.72             | 32°16'03.509"N | 103°37'58.082"W | 20.03            |                         |
| 9800.00†   | 82.338             | 182.828        | 9672.45     | 247.87            | -247.56       | -12.23       | 757858.77            | 461713.05             | 32°16'02.573"N | 103°37'58.144"W | 20.03            |                         |
| 9838.25    | 90.000             | 182.828        | 9675.00     | 286.00            | -285.65       | -14.11       | 757856.89            | 461674.96             | 32°16'02.196"N | 103°37'58.169"W | 20.03            | EOC                     |
| 9900.00†   | 90.000             | 182.828        | 9675.00     | 347.75            | -347.33       | -17.16       | 757853.84            | 461613.29             | 32°16'01.586"N | 103°37'58.209"W | 0.00             |                         |
| 10000.00†  | 90.000             | 182.828        | 9675.00     | 447.75            | -447.21       | -22.09       | 757848.91            | 461513.41             | 32°16'00.598"N | 103°37'58.274"W | 0.00             |                         |
| 10100.00†  | 90.000             | 182.828        | 9675.00     | 547.75            | -547.08       | -27.03       | 757843.97            | 461413.54             | 32°15'59.610"N | 103°37'58.339"W | 0.00             |                         |
| 10200.00†  | 90.000             | 182.828        | 9675.00     | 647.75            | -646.96       | -31.96       | 757839.04            | 461313.66             | 32°15'58.622"N | 103°37'58.404"W | 0.00             |                         |
| 10300.00†  | 90.000             | 182.828        | 9675.00     | 747.75            | -746.84       | -36.90       | 757834.10            | 461213.79             | 32°15'57.634"N | 103°37'58.469"W | 0.00             |                         |
| 10400.00†  | 90.000             | 182.828        | 9675.00     | 847.75            | -846.72       | -41.83       | 757829.17            | 461113.91             | 32°15'56.646"N | 103°37'58.534"W | 0.00             |                         |
| 10500.00†  | 90.000             | 182.828        | 9675.00     | 947.75            | -946.60       | -46.77       | 757824.23            | 461014.04             | 32°15'55.658"N | 103°37'58.599"W | 0.00             |                         |
| 10600.00†  | 90.000             | 182.828        | 9675.00     | 1047.75           | -1046.48      | -51.70       | 757819.30            | 460914.17             | 32°15'54.670"N | 103°37'58.664"W | 0.00             |                         |
| 10700.00†  | 90.000             | 182.828        | 9675.00     | 1147.75           | -1146.35      | -56.64       | 757814.36            | 460814.29             | 32°15'53.682"N | 103°37'58.729"W | 0.00             |                         |
| 10800.00†  | 90.000             | 182.828        | 9675.00     | 1247.75           | -1246.23      | -61.57       | 757809.43            | 460714.42             | 32°15'52.694"N | 103°37'58.794"W | 0.00             |                         |
| 10900.00†  | 90.000             | 182.828        | 9675.00     | 1347.75           | -1346.11      | -66.51       | 757804.50            | 460614.54             | 32°15'51.706"N | 103°37'58.859"W | 0.00             |                         |
| 11000.00†  | 90.000             | 182.828        | 9675.00     | 1447.75           | -1445.99      | -71.44       | 757799.56            | 460514.67             | 32°15'50.718"N | 103°37'58.925"W | 0.00             |                         |
| 11100.00†  | 90.000             | 182.828        | 9675.00     | 1547.75           | -1545.87      | -76.38       | 757794.63            | 460414.79             | 32°15'49.730"N | 103°37'58.990"W | 0.00             |                         |
| 11200.00†  | 90.000             | 182.828        | 9675.00     | 1647.75           | -1645.74      | -81.31       | 757789.69            | 460314.92             | 32°15'48.742"N | 103°37'59.055"W | 0.00             |                         |
| 11300.00†  | 90.000             | 182.828        | 9675.00     | 1747.75           | -1745.62      | -86.25       | 757784.76            | 460215.05             | 32°15'47.754"N | 103°37'59.120"W | 0.00             |                         |
| 11400.00†  | 90.000             | 182.828        | 9675.00     | 1847.75           | -1845.50      | -91.18       | 757779.82            | 460115.17             | 32°15'46.767"N | 103°37'59.185"W | 0.00             |                         |
| 11500.00†  | 90.000             | 182.828        | 9675.00     | 1947.75           | -1945.38      | -96.11       | 757774.89            | 460015.30             | 32°15'45.779"N | 103°37'59.250"W | 0.00             |                         |
| 11600.00†  | 90.000             | 182.828        | 9675.00     | 2047.75           | -2045.26      | -101.05      | 757769.95            | 459915.42             | 32°15'44.791"N | 103°37'59.315"W | 0.00             |                         |
| 11700.00†  | 90.000             | 182.828        | 9675.00     | 2147.75           | -2145.14      | -105.98      | 757765.02            | 459815.55             | 32°15'43.803"N | 103°37'59.380"W | 0.00             |                         |
| 11800.00†  | 90.000             | 182.828        | 9675.00     | 2247.75           | -2245.01      | -110.92      | 757760.09            | 459715.67             | 32°15'42.815"N | 103°37'59.445"W | 0.00             |                         |
| 11900.00†  | 90.000             | 182.828        | 9675.00     | 2347.75           | -2344.89      | -115.85      | 757755.15            | 459615.80             | 32°15'41.827"N | 103°37'59.510"W | 0.00             |                         |
| 12000.00†  | 90.000             | 182.828        | 9675.00     | 2447.75           | -2444.77      | -120.79      | 757750.22            | 459515.93             | 32°15'40.839"N | 103°37'59.575"W | 0.00             |                         |
| 12100.00†  | 90.000             | 182.828        | 9675.00     | 2547.75           | -2544.65      | -125.72      | 757745.28            | 459416.05             | 32°15'39.851"N | 103°37'59.640"W | 0.00             |                         |
| 12200.00†  | 90.000             | 182.828        | 9675.00     | 2647.75           | -2644.53      | -130.66      | 757740.35            | 459316.18             | 32°15'38.863"N | 103°37'59.705"W | 0.00             |                         |
| 12300.00†  | 90.000             | 182.828        | 9675.00     | 2747.75           | -2744.40      | -135.59      | 757735.41            | 459216.30             | 32°15'37.875"N | 103°37'59.770"W | 0.00             |                         |
| 12400.00†  | 90.000             | 182.828        | 9675.00     | 2847.75           | -2844.28      | -140.53      | 757730.48            | 459116.43             | 32°15'36.887"N | 103°37'59.835"W | 0.00             |                         |
| 12500.00†  | 90.000             | 182.828        | 9675.00     | 2947.75           | -2944.16      | -145.46      | 757725.54            | 459016.55             | 32°15'35.899"N | 103°37'59.900"W | 0.00             |                         |
| 12600.00†  | 90.000             | 182.828        | 9675.00     | 3047.75           | -3044.04      | -150.40      | 757720.61            | 458916.68             | 32°15'34.911"N | 103°37'59.965"W | 0.00             |                         |
| 12700.00†  | 90.000             | 182.828        | 9675.00     | 3147.75           | -3143.92      | -155.33      | 757715.68            | 458816.81             | 32°15'33.923"N | 103°38'00.030"W | 0.00             |                         |
| 12800.00†  | 90.000             | 182.828        | 9675.00     | 3247.75           | -3243.80      | -160.26      | 757710.74            | 458716.93             | 32°15'32.935"N | 103°38'00.095"W | 0.00             |                         |
| 12900.00†  | 90.000             | 182.828        | 9675.00     | 3347.75           | -3343.67      | -165.20      | 757705.81            | 458617.06             | 32°15'31.947"N | 103°38'00.161"W | 0.00             |                         |





# Planned Wellpath Report

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## REFERENCE WELLPATH IDENTIFICATION

|          |                                  |          |          |
|----------|----------------------------------|----------|----------|
| Operator | Cimarex Energy Co.               | Slot     | No.2 SHL |
| Area     | Lea County, NM                   | Well     | No.2     |
| Field    | (Triste Draw) Sec 36, T23S, R32E | Wellbore | No.2 PWB |
| Facility | Triste Draw 36 State No.2        |          |          |

## WELLPATH DATA (150 stations) † = interpolated/extrapolated station

| MD [ft]   | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude       | Longitude       | DLS [°/100ft] | Comments  |
|-----------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|----------------|-----------------|---------------|-----------|
| 13000.00† | 90.000          | 182.828     | 9675.00  | 3447.75        | -3443.55   | -170.13   | 757700.87         | 458517.18          | 32°15'30.959"N | 103°38'00.226"W | 0.00          |           |
| 13100.00† | 90.000          | 182.828     | 9675.00  | 3547.75        | -3543.43   | -175.07   | 757695.94         | 458417.31          | 32°15'29.971"N | 103°38'00.291"W | 0.00          |           |
| 13200.00† | 90.000          | 182.828     | 9675.00  | 3647.75        | -3643.31   | -180.00   | 757691.00         | 458317.43          | 32°15'28.983"N | 103°38'00.356"W | 0.00          |           |
| 13300.00† | 90.000          | 182.828     | 9675.00  | 3747.75        | -3743.19   | -184.94   | 757686.07         | 458217.56          | 32°15'27.995"N | 103°38'00.421"W | 0.00          |           |
| 13400.00† | 90.000          | 182.828     | 9675.00  | 3847.75        | -3843.06   | -189.87   | 757681.13         | 458117.69          | 32°15'27.007"N | 103°38'00.486"W | 0.00          |           |
| 13500.00† | 90.000          | 182.828     | 9675.00  | 3947.75        | -3942.94   | -194.81   | 757676.20         | 458017.81          | 32°15'26.019"N | 103°38'00.551"W | 0.00          |           |
| 13600.00† | 90.000          | 182.828     | 9675.00  | 4047.75        | -4042.82   | -199.74   | 757671.27         | 457917.94          | 32°15'25.031"N | 103°38'00.616"W | 0.00          |           |
| 13700.00† | 90.000          | 182.828     | 9675.00  | 4147.75        | -4142.70   | -204.68   | 757666.33         | 457818.06          | 32°15'24.043"N | 103°38'00.681"W | 0.00          |           |
| 13800.00† | 90.000          | 182.828     | 9675.00  | 4247.75        | -4242.58   | -209.61   | 757661.40         | 457718.19          | 32°15'23.055"N | 103°38'00.746"W | 0.00          |           |
| 13900.00† | 90.000          | 182.828     | 9675.00  | 4347.75        | -4342.46   | -214.55   | 757656.46         | 457618.31          | 32°15'22.067"N | 103°38'00.811"W | 0.00          |           |
| 14000.00† | 90.000          | 182.828     | 9675.00  | 4447.75        | -4442.33   | -219.48   | 757651.53         | 457518.44          | 32°15'21.079"N | 103°38'00.876"W | 0.00          |           |
| 14100.00† | 90.000          | 182.828     | 9675.00  | 4547.75        | -4542.21   | -224.42   | 757646.59         | 457418.57          | 32°15'20.091"N | 103°38'00.941"W | 0.00          |           |
| 14200.00† | 90.000          | 182.828     | 9675.00  | 4647.75        | -4642.09   | -229.35   | 757641.66         | 457318.69          | 32°15'19.104"N | 103°38'01.006"W | 0.00          |           |
| 14300.00† | 90.000          | 182.828     | 9675.00  | 4747.75        | -4741.97   | -234.28   | 757636.72         | 457218.82          | 32°15'18.116"N | 103°38'01.071"W | 0.00          |           |
| 14361.29  | 90.000          | 182.828     | 9675.00  | 4809.05        | -4803.19   | -237.31   | 757633.70         | 457157.60          | 32°15'17.510"N | 103°38'01.111"W | 0.00          | No.2 PBHL |

## TARGETS

| Name                 | MD [ft]  | TVD [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude       | Longitude       | Shape |
|----------------------|----------|----------|------------|-----------|-------------------|--------------------|----------------|-----------------|-------|
| 1) No.2 PBHL (Rev-0) | 14361.29 | 9675.00  | -4803.19   | -237.31   | 757633.70         | 457157.60          | 32°15'17.510"N | 103°38'01.111"W | point |

## SURVEY PROGRAM - Ref Wellbore: No.2 PWB Ref Wellpath: Rev-A.0

| Start MD [ft] | End MD [ft] | Positional Uncertainty Model | Log Name/Comment | Wellbore |
|---------------|-------------|------------------------------|------------------|----------|
| 0.00          | 14361.29    | NaviTrak (Standard)          |                  | No.2 PWB |