

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

JUN 30 2009

FORM APPROVED  
OMB No. 1004-0135  
Expires July 31, 1996

OCD-ARTESIA

Revised

SUNDRY NOTICES AND REPORTS ON WELLS  
Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

|                                                                                                                                  |                                                       |                                                                    |                                                   |                                      |                                             |                                                |                                 |                                                                 |                                                |
|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------|--------------------------------------|---------------------------------------------|------------------------------------------------|---------------------------------|-----------------------------------------------------------------|------------------------------------------------|
| 1. Type of Well<br><input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other | 2. Name of Operator<br>Cimarex Energy Co. of Colorado | 3a. Address<br>5215 N. O'Connor Blvd., Ste. 1500; Irving, TX 75039 | 3b. Phone No. (include area code)<br>972-401-3111 | 6. If Indian, Allottee or Tribe Name | 7. If Unit or CA/Agreement, Name and/or No. | 8. Well Name and No.<br>Benson 3 Federal No. 1 | 9. API Well No.<br>30-015-25718 | 10. Field and Pool, or Exploratory Area<br>Benson; Strawn (Gas) | 11. County or Parish, State<br>Eddy County, NM |
|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------|--------------------------------------|---------------------------------------------|------------------------------------------------|---------------------------------|-----------------------------------------------------------------|------------------------------------------------|

## 12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION                                   | TYPE OF ACTION                                |                                               |                                                    |                                                                                                      |
|------------------------------------------------------|-----------------------------------------------|-----------------------------------------------|----------------------------------------------------|------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> Notice of Intent | <input type="checkbox"/> Acidize              | <input type="checkbox"/> Deepen               | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off                                                              |
| <input type="checkbox"/> Subsequent Report           | <input type="checkbox"/> Alter Casing         | <input type="checkbox"/> Fracture Treat       | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity                                                              |
| <input type="checkbox"/> Final Abandonment Notice    | <input type="checkbox"/> Casing Repair        | <input type="checkbox"/> New Construction     | <input checked="" type="checkbox"/> Recomplete     | <input checked="" type="checkbox"/> Other Plug back and<br>recomplete horizontally<br>in Bone Spring |
|                                                      | <input type="checkbox"/> Change Plans         | <input type="checkbox"/> Plug and Abandon     | <input type="checkbox"/> Temporarily Abandon       |                                                                                                      |
|                                                      | <input type="checkbox"/> Convert to Injection | <input checked="" type="checkbox"/> Plug Back | <input type="checkbox"/> Water Disposal            |                                                                                                      |

## 13. Describe Proposed or Completed Operation (clearly state all pertinent details, included estimated starting date of any proposed work and approximate duration thereof.

If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Well has been shut in since 04-2000. Currently completed vertically in the Strawn 10888' - 10902.' Cimarex proposes to re-enter, plug back, and recomplete the well horizontally in the Bone Spring as outlined below:

- Kill well. NU BOP. Set CIBP over Strawn @ 10838' w/ 35' cmt. Set CIBP @ 8367' w/ 2 sx sand. Cimarex will address additional plugs between Strawn perfs and Bone Spring at final abandonment.
- Mill window from 8345' - 8360.' Kick off 4 1/4" hole at 8355' and land curve at 8661' MD, 8550' TVD. Drill to TD at 13007' MD and 8550' TVD.
- Run 3 1/2" 9.3# P-110-EUE-8rd liner from RSB packer at 8255' to TD at 13007' MD. Liner will be PEAK completion assembly, which requires no cement.
- Fracture treat in several stages as needed through iso-ports separated by iso-packers.

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

Please see attached C-102 and preliminary directional survey.

## 14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

Natalie Krueger

Signature

Title

Reg Analyst

Date

June 24, 2009

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Conditions of Approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U S C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

APPROVED

Date  
JUN 27 2009WESLEY W. INGRAM  
PETROLEUM ENGINEER

**District I**  
1625 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 & Natural Resources Department  
**OIL CONSERVATION DIVISION**  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102  
Revised October 12, 2005  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

☐ AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

|                                                |                                                                     |                                                          |
|------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------|
| <sup>1</sup> API Number<br><b>30-015-25718</b> | <sup>2</sup> Pool Code<br><b>37920</b>                              | <sup>3</sup> Pool Name<br><b>Leo; Bone Spring, South</b> |
| <sup>4</sup> Property Code                     | <sup>5</sup> Property Name<br><b>Benson 3 Federal</b>               | <sup>6</sup> Well Number<br><b>001</b>                   |
| <sup>7</sup> OGRID No.<br><b>162683</b>        | <sup>8</sup> Operator Name<br><b>CIMAREX ENERGY CO. OF COLORADO</b> | <sup>9</sup> Elevation<br><b>3447' GL</b>                |

<sup>10</sup> Surface Location

| UL or lot no. | Section  | Township   | Range      | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County      |
|---------------|----------|------------|------------|---------|---------------|------------------|---------------|----------------|-------------|
| <b>B</b>      | <b>3</b> | <b>19S</b> | <b>30E</b> |         | <b>760</b>    | <b>North</b>     | <b>2080</b>   | <b>East</b>    | <b>Eddy</b> |

<sup>11</sup> Bottom Hole Location If Different From Surface

| UL or lot no. | Section  | Township   | Range      | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County      |
|---------------|----------|------------|------------|---------|---------------|------------------|---------------|----------------|-------------|
| <b>P</b>      | <b>3</b> | <b>19S</b> | <b>30E</b> |         | <b>330</b>    | <b>South</b>     | <b>330</b>    | <b>East</b>    | <b>Eddy</b> |

| <sup>12</sup> Dedicated Acres | <sup>13</sup> Joint or Infill | <sup>14</sup> Consolidation Code | <sup>15</sup> Order No. |
|-------------------------------|-------------------------------|----------------------------------|-------------------------|
| <b>240</b>                    |                               | <b>P</b>                         |                         |

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>16</p> | <p>17 <b>OPERATOR CERTIFICATION</b><br/>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or released 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.</p> <p><u>Zeno Farris</u> 1/21/2009<br/>Signature Date</p> <p><b>Zeno Farris</b><br/>Printed Name</p> <p>18 <b>SURVEYOR CERTIFICATION</b><br/>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 of Survey<br/>Signature and Seal of Professional Surveyor:</p> <p>Certificate Number</p> |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



# Cimarex Energy Co. of Colorado

Location: Eddy County, NM  
Field: (Benson) Hackberry  
Facility: Benson 3 Fed No. 1H

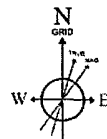
Slot: No. 1H SHL  
Well: No. 1H  
Wellbore: No. 1H PWB



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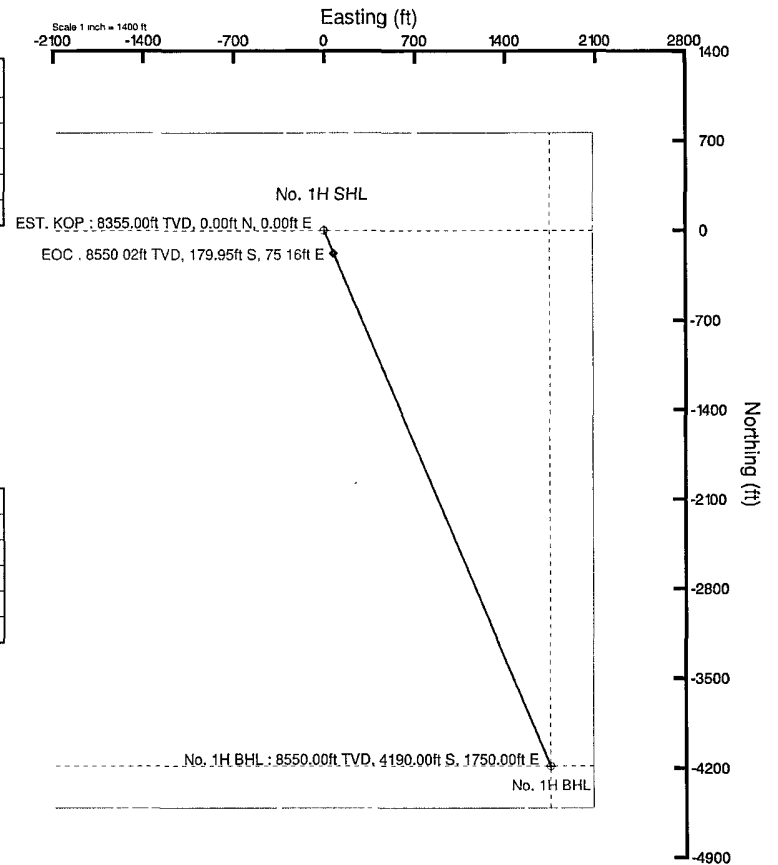
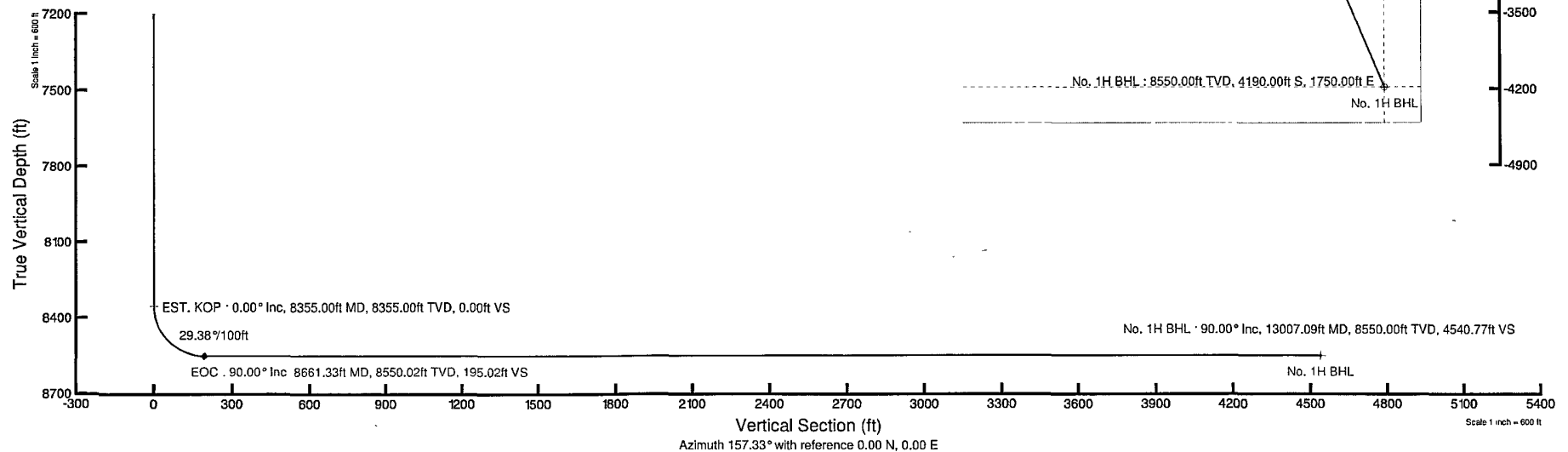
Well Profile Data

| Design Comment | MD (ft)  | Inc (°) | Az (°)  | TVD (ft) | Local N (ft) | Local E (ft) | DLS (%100ft) | VS (ft) |
|----------------|----------|---------|---------|----------|--------------|--------------|--------------|---------|
| Tie On         | 0.00     | 0.000   | 157.332 | 0.00     | 0.00         | 0.00         | 0.00         | 0.00    |
| EST. KOP       | 8355.00  | 0.000   | 157.332 | 8355.00  | 0.00         | 0.00         | 0.00         | 0.00    |
| EOC            | 8661.33  | 90.000  | 157.332 | 8550.02  | -179.95      | 75.16        | 29.38        | 195.02  |
| No. 1H BHL     | 13007.09 | 90.000  | 157.332 | 8550.00  | -4190.00     | 1750.00      | 0.00         | 4540.77 |



BGGM (1945.0 to 2010.0) Dip 58.62° Field 47829.6 nT  
Magnetic North is 9.91 degrees East of True North (at 1/12/2009)  
Grid North is 0.62 degrees West of True North  
To correct azimuth from True to Grid add 0.62 degrees  
To correct azimuth from Magnetic to Grid add 9.63 degrees  
For example if the Magnetic North Azimuth = 90 degrees, then the Grid North Azimuth = 90 + 9.63 = 99.63

|                                                                      |                                                                              |
|----------------------------------------------------------------------|------------------------------------------------------------------------------|
| Plot reference wellpath is Plan #1                                   |                                                                              |
| True vertical depths are referenced to Rig on No. 1H SHL (RT)        | Grid System NAD27 / TM New Mexico State Planes, Eastern Zone (3001), US feet |
| Measured depths are referenced to Rig on No. 1H SHL (RT)             | North Reference Grid north                                                   |
| Rig on No. 1H SHL (RT) to Mean Sea Level 3464 feet                   | Scale, True distance                                                         |
| Mean Sea Level to Mud line (Facility Benson 3 Fed No. 1H) -3447 feet | Depths are in feet                                                           |
| Coordinates are in feet referenced to Facility Center                | Created by Victor Hernandez on 1/12/2009                                     |





# Planned Wellpath Report

Plan #1  
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## REFERENCE WELLPATH IDENTIFICATION

|          |                                |          |            |
|----------|--------------------------------|----------|------------|
| Operator | Cimarex Energy Co. of Colorado | Slot     | No. 1H SHL |
| Area     | Eddy County, NM                | Well     | No. 1H     |
| Field    | (Benson) Hackberry             | Wellbore | No. 1H PWB |
| Facility | Benson 3 Fed No. 1H            |          |            |

## REPORT SETUP INFORMATION

|                     |                                                                  |                      |                           |
|---------------------|------------------------------------------------------------------|----------------------|---------------------------|
| Projection System   | NAD27 / TM New Mexico State Planes, Eastern Zone (3001), US feet | Software System      | WellArchitect® 2.0        |
| North Reference     | Grid                                                             | User                 | Victor Hernandez          |
| Scale               | 1.0002                                                           | Report Generated     | 1/12/2009 at 10:28:03 AM  |
| Convergence at slot | 0.82° West                                                       | Database/Source file | WA_Midland/No._1H_PWB.xml |

## WELLPATH LOCATION

|                       | Local coordinates |          | Grid coordinates |                | Geographic coordinates |                 |
|-----------------------|-------------------|----------|------------------|----------------|------------------------|-----------------|
|                       | North[ft]         | East[ft] | Easting[USft]    | Northing[USft] | Latitude               | Longitude       |
| Slot Location         | 0.00              | 0.00     | 0.00             | 0.00           | 30°59'24.512"N         | 105°55'44.137"W |
| Facility Reference Pt |                   |          | 0.00             | 0.00           | 30°59'24.512"N         | 105°55'44.137"W |
| Field Reference Pt    |                   |          | 0.00             | 0.00           | 30°59'24.512"N         | 105°55'44.137"W |

## WELLPATH DATUM

|                          |                        |                                                   |                   |
|--------------------------|------------------------|---------------------------------------------------|-------------------|
| Calculation method       | Minimum curvature      | Rig on No. 1H SHL (RT) to Facility Vertical Datum | 17.00ft           |
| Horizontal Reference Pt  | Facility Center        | Rig on No. 1H SHL (RT) to Mean Sea Level          | 3464.00ft         |
| Vertical Reference Pt    | Rig on No. 1H SHL (RT) | Facility Vertical Datum to Mud Line (Facility)    | 0.00ft            |
| MD Reference Pt          | Rig on No. 1H SHL (RT) | Section Origin                                    | N 0.00, E 0.00 ft |
| Field Vertical Reference | Mean Sea Level         | Section Azimuth                                   | 157.33°           |



# Planned Wellpath Report

Plan #1  
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INTEQ

| REFERENCE WELLPATH IDENTIFICATION |                                |          |            |
|-----------------------------------|--------------------------------|----------|------------|
| Operator                          | Cimarex Energy Co. of Colorado | Slot     | No. 1H SHL |
| Area                              | Eddy County, NM                | Well     | No. 1H     |
| Field                             | (Benson) Hackberry             | Wellbore | No. 1H PWB |
| Facility                          | Benson 3 Fed No. 1H            |          |            |

| WELLPATH DATA (50 stations) † = interpolated/extrapolated station |                    |                |             |                   |               |              |                  |  | Comments |
|-------------------------------------------------------------------|--------------------|----------------|-------------|-------------------|---------------|--------------|------------------|--|----------|
| MD<br>[ft]                                                        | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | Vert Sect<br>[ft] | North<br>[ft] | East<br>[ft] | DLS<br>[°/100ft] |  |          |
| 0.00                                                              | 0.000              | 157.332        | 0.00        | 0.00              | 0.00          | 0.00         | 0.00             |  | Tie On   |
| 8355.00                                                           | 0.000              | 157.332        | 8355.00     | 0.00              | 0.00          | 0.00         | 0.00             |  | EST. KOP |
| 8455.00†                                                          | 29.380             | 157.332        | 8450.67     | 25.08             | -23.14        | 9.67         | 29.38            |  |          |
| 8555.00†                                                          | 58.760             | 157.332        | 8521.74     | 93.88             | -86.62        | 36.18        | 29.38            |  |          |
| 8655.00†                                                          | 88.140             | 157.332        | 8549.91     | 188.69            | -174.11       | 72.72        | 29.38            |  |          |
| 8661.33                                                           | 90.000             | 157.332        | 8550.02     | 195.02            | -179.95       | 75.16        | 29.38            |  | EOC      |
| 8755.00†                                                          | 90.000             | 157.332        | 8550.02     | 288.69            | -266.38       | 111.26       | 0.00             |  |          |
| 8855.00†                                                          | 90.000             | 157.332        | 8550.02     | 388.69            | -358.66       | 149.80       | 0.00             |  |          |
| 8955.00†                                                          | 90.000             | 157.332        | 8550.02     | 488.69            | -450.93       | 188.34       | 0.00             |  |          |
| 9055.00†                                                          | 90.000             | 157.332        | 8550.01     | 588.69            | -543.21       | 226.88       | 0.00             |  |          |
| 9155.00†                                                          | 90.000             | 157.332        | 8550.01     | 688.69            | -635.49       | 265.42       | 0.00             |  |          |
| 9255.00†                                                          | 90.000             | 157.332        | 8550.01     | 788.69            | -727.76       | 303.96       | 0.00             |  |          |
| 9355.00†                                                          | 90.000             | 157.332        | 8550.01     | 888.69            | -820.04       | 342.50       | 0.00             |  |          |
| 9455.00†                                                          | 90.000             | 157.332        | 8550.01     | 988.69            | -912.31       | 381.04       | 0.00             |  |          |
| 9555.00†                                                          | 90.000             | 157.332        | 8550.01     | 1088.69           | -1004.59      | 419.58       | 0.00             |  |          |
| 9655.00†                                                          | 90.000             | 157.332        | 8550.01     | 1188.69           | -1096.86      | 458.12       | 0.00             |  |          |
| 9755.00†                                                          | 90.000             | 157.332        | 8550.01     | 1288.69           | -1189.14      | 496.66       | 0.00             |  |          |
| 9855.00†                                                          | 90.000             | 157.332        | 8550.01     | 1388.69           | -1281.41      | 535.20       | 0.00             |  |          |
| 9955.00†                                                          | 90.000             | 157.332        | 8550.01     | 1488.69           | -1373.69      | 573.74       | 0.00             |  |          |
| 10055.00†                                                         | 90.000             | 157.332        | 8550.01     | 1588.69           | -1465.96      | 612.27       | 0.00             |  |          |
| 10155.00†                                                         | 90.000             | 157.332        | 8550.01     | 1688.69           | -1558.24      | 650.81       | 0.00             |  |          |
| 10255.00†                                                         | 90.000             | 157.332        | 8550.01     | 1788.69           | -1650.51      | 689.35       | 0.00             |  |          |
| 10355.00†                                                         | 90.000             | 157.332        | 8550.01     | 1888.69           | -1742.79      | 727.89       | 0.00             |  |          |
| 10455.00†                                                         | 90.000             | 157.332        | 8550.01     | 1988.69           | -1835.06      | 766.43       | 0.00             |  |          |
| 10555.00†                                                         | 90.000             | 157.332        | 8550.01     | 2088.69           | -1927.34      | 804.97       | 0.00             |  |          |
| 10655.00†                                                         | 90.000             | 157.332        | 8550.01     | 2188.69           | -2019.61      | 843.51       | 0.00             |  |          |
| 10755.00†                                                         | 90.000             | 157.332        | 8550.01     | 2288.69           | -2111.89      | 882.05       | 0.00             |  |          |
| 10855.00†                                                         | 90.000             | 157.332        | 8550.01     | 2388.69           | -2204.16      | 920.59       | 0.00             |  |          |
| 10955.00†                                                         | 90.000             | 157.332        | 8550.01     | 2488.69           | -2296.44      | 959.13       | 0.00             |  |          |
| 11055.00†                                                         | 90.000             | 157.332        | 8550.01     | 2588.69           | -2388.71      | 997.67       | 0.00             |  |          |



# Planned Wellpath Report

Plan #1  
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## REFERENCE WELLPATH IDENTIFICATION

|          |                                |          |            |
|----------|--------------------------------|----------|------------|
| Operator | Cimarex Energy Co. of Colorado | Slot     | No. 1H SHL |
| Area     | Eddy County, NM                | Well     | No. 1H     |
| Field    | (Benson) Hackberry             | Wellbore | No. 1H PWB |
| Facility | Benson 3 Fed No. 1H            |          |            |

## WELLPATH DATA (50 stations) † = interpolated/extrapolated station

| MD<br>[ft] | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | Vert Sect<br>[ft] | North<br>[ft] | East<br>[ft] | DLS<br>[°/100ft] | Comments   |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|------------------|------------|
| 11155.00†  | 90.000             | 157.332        | 8550.01     | 2688.69           | -2480.99      | 1036.21      | 0.00             |            |
| 11255.00†  | 90.000             | 157.332        | 8550.01     | 2788.69           | -2573.26      | 1074.75      | 0.00             |            |
| 11355.00†  | 90.000             | 157.332        | 8550.01     | 2888.69           | -2665.54      | 1113.29      | 0.00             |            |
| 11455.00†  | 90.000             | 157.332        | 8550.01     | 2988.69           | -2757.81      | 1151.83      | 0.00             |            |
| 11555.00†  | 90.000             | 157.332        | 8550.01     | 3088.69           | -2850.09      | 1190.37      | 0.00             |            |
| 11655.00†  | 90.000             | 157.332        | 8550.01     | 3188.69           | -2942.36      | 1228.91      | 0.00             |            |
| 11755.00†  | 90.000             | 157.332        | 8550.00     | 3288.69           | -3034.64      | 1267.45      | 0.00             |            |
| 11855.00†  | 90.000             | 157.332        | 8550.00     | 3388.69           | -3126.91      | 1305.99      | 0.00             |            |
| 11955.00†  | 90.000             | 157.332        | 8550.00     | 3488.69           | -3219.19      | 1344.53      | 0.00             |            |
| 12055.00†  | 90.000             | 157.332        | 8550.00     | 3588.69           | -3311.46      | 1383.07      | 0.00             |            |
| 12155.00†  | 90.000             | 157.332        | 8550.00     | 3688.69           | -3403.74      | 1421.61      | 0.00             |            |
| 12255.00†  | 90.000             | 157.332        | 8550.00     | 3788.69           | -3496.01      | 1460.15      | 0.00             |            |
| 12355.00†  | 90.000             | 157.332        | 8550.00     | 3888.69           | -3588.29      | 1498.69      | 0.00             |            |
| 12455.00†  | 90.000             | 157.332        | 8550.00     | 3988.69           | -3680.56      | 1537.23      | 0.00             |            |
| 12555.00†  | 90.000             | 157.332        | 8550.00     | 4088.69           | -3772.84      | 1575.77      | 0.00             |            |
| 12655.00†  | 90.000             | 157.332        | 8550.00     | 4188.69           | -3865.11      | 1614.31      | 0.00             |            |
| 12755.00†  | 90.000             | 157.332        | 8550.00     | 4288.69           | -3957.39      | 1652.85      | 0.00             |            |
| 12855.00†  | 90.000             | 157.332        | 8550.00     | 4388.69           | -4049.66      | 1691.39      | 0.00             |            |
| 12955.00†  | 90.000             | 157.332        | 8550.00     | 4488.69           | -4141.94      | 1729.93      | 0.00             |            |
| 13007.09   | 90.000             | 157.332        | 8550.00     | 4540.77           | -4190.00      | 1750.00      | 0.00             | No. 1H BHL |

## HOLE & CASING SECTIONS Ref Wellbore: No. 1H PWB Ref Wellpath: Plan #1

| String/Diameter  | Start MD<br>[ft] | End MD<br>[ft] | Interval<br>[ft] | Start TVD<br>[ft] | End TVD<br>[ft] | Start N/S<br>[ft] | Start E/W<br>[ft] | End N/S<br>[ft] | End E/W<br>[ft] |
|------------------|------------------|----------------|------------------|-------------------|-----------------|-------------------|-------------------|-----------------|-----------------|
| 5.5in Casing     | 0.00             | 8355.00        | 8355.00          | 0.00              | 8355.00         | 0.00              | 0.00              | 0.00            | 0.00            |
| 4.75in Open Hole | 8355.00          | 13007.09       | 4652.09          | 8355.00           | NA              | 0.00              | 0.00              | NA              | NA              |



# Planned Wellpath Report

Plan #1  
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INTEQ

## REFERENCE WELLPATH IDENTIFICATION

|          |                                |          |            |
|----------|--------------------------------|----------|------------|
| Operator | Cimarex Energy Co. of Colorado | Slot     | No. 1H SHL |
| Area     | Eddy County, NM                | Well     | No. 1H     |
| Field    | (Benson) Hackberry             | Wellbore | No. 1H PWB |
| Facility | Benson 3 Fed No. 1H            |          |            |

## TARGETS

| Name          | MD<br>[ft] | TVD<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[srv ft] | Grid North<br>[srv ft] | Latitude       | Longitude       | Shape |
|---------------|------------|-------------|---------------|--------------|-----------------------|------------------------|----------------|-----------------|-------|
| 1) No. 1H BHL | 13007.09   | 8550.00     | -4190.00      | 1750.00      | 1750.34               | -4190.81               | 30°58'43.294"N | 105°55'23.348"W | point |

## SURVEY PROGRAM. Ref Wellbore: No. 1H PWB Ref Wellpath: Plan #1

| Start MD<br>[ft] | End MD<br>[ft] | Positional Uncertainty Model | Log Name/Comment | Wellbore   |
|------------------|----------------|------------------------------|------------------|------------|
| 17.00            | 13007.09       | NaviTrak (Standard)          |                  | No. 1H PWB |

Benson 3 Federal No. 1

30-015-25718

3-19S-30E

760' FNL & 2080' FEL

Spud date 12-14-86

17½" hole  
13¾" 61 & 48# to 405'  
500 sx, circ 157 sx

Salt 650'

B. Salt 1600'

Yates 1910'

11" hole  
8¾" 24# to 1995'  
1200 sx, circ 173 sx

Queen 2900'

Grayburg 3375'

San Andres 3575'

Delaware 3830'

Bone Spring 6030'

Proposed kickoff @ 8355'

Proposed CIBP @ 8367' w/ 2 sx sand

**TOC 9000'**

Wolfcamp 9650'

Strawn Lime 10740'

Proposed CIBP @ 10838' w/ 35' cmt

Strawn perms 10888'-897'

Strawn perms 10900'-902'

7⅞" hole  
5½" 17# to 11250'  
525 sx, TOC 9000'

Atoka 10910'

TD 11250' & PBTD 11190'

**Benson 3 Federal No 1  
30-015-25718  
Cimarex Energy Co. of Colorado  
June 27, 2009  
Conditions of Approval**

- 1. Well is in Secretary's Potash. Cement is required to tie-back 500' into the intermediate. Current TOC is 9000', required TOC is 1495'. Operator to provide verification of TOC after squeeze from approximately 9000'.**
- 2. Operator will be required to address the additional plugs between the Strawn and Bone Spring formation at final abandonment or prior to selling this wellbore to another operator.**
- 3. Surface disturbance beyond the existing pad must have prior approval.**
- 4. Closed loop system required.**
- 5. Operator to have H2S monitoring equipment on location as H2S has been reported from the Bone Spring formation.**
- 6. Operator did not specify mud – 10 ppg mud weight used.**
- 7. For the Strawn depth, a minimum of a 5M BOP is required and must be tested prior to setting CIBP over Strawn perforations.**
- 8. Contact BLM 575-361-2822 a minimum of 4 hours prior to setting CIBP above Strawn.**
- 9. CIT (1900 psi) required after setting CIBP above Strawn.**
- 10. CIBP in pipe with no cement behind casing is not acceptable; this will be resolved by number 1.**
- 11. 2-7/8" liner is maximum that can be used to obtain clearance required in Onshore Order 2.**

**WWI 062709**