Form 3160-5 \* (November 1994)

#### UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

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

SUNDRY NOTICES AND REPORTS ON WELLS

| NM- | .94839                            |  |
|-----|-----------------------------------|--|
| 6.  | If Indian, Allottee or Tribe Name |  |

| Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals. |                            |                          |                     | 6. If India          | an, Allottee or Tribe Name       |
|---|----------------------------|--------------------------|---------------------|----------------------|----------------------------------|
| SURMIT IN TRI   | PLICATE - Other instructio | ns on reverse side       |                     | 7. If Unit           | or CA/Agreement, Name and/or No. |
|   | EIOATE - Other moradus     | 7,0 0,1 7,0 0,0 0,0 0,00 |                     | Dandina              |                                  |
| 1. Type of Well Oil Well X Gas Well   | Other ,                    | 25 2008                  | }                   | Pending<br>8. Well N | lame and No.                     |
| 2. Name of Operator   |                            | ARTESIA                  |                     | Pintail 23           | Federal Com No. 1                |
| Cimarex Energy Co. of Colorad   |                            | PAINIEUIA                |                     | 9. API W             | ell No.                          |
| 3a. Address   |                            | 3b. Phone No. (include   | e area code)        | 30-015-33            | 3431                             |
| PO Box 140907; Irving, TX 750   | 014-0907                   | 972-401-3111             |                     | 10. Field a          | and Pool, or Exploratory Area    |
| 4. Location of Well (Footage, Sec., T., R., M.,   | or Survey Description)     |                          |                     | Cottonwo             | ood Draw; Morrow                 |
| SHL 1340 FNL & 990 FWL  | 23-25S <b>-</b> 26E        |                          |                     | 11. Count            | y or Parish, State               |
| BHL 1110 FNL & 660 FEL  |                            |                          |                     | Eddy Cou             | inty, NM                         |
| 12. CHECK APP   | ROPRIATE BOX(ES) TO        | O INDICATE NAT           | URE OF NOTIC        | E, REPOR             | T, OR OTHER DATA                 |
| TYPE OF SUBMISSION  |                            |                          | PE OF ACTION        |                      |                                  |
| X Notice of Intent  | Acidize                    | Deepen                   | Production (Start/F | Resume)              | Water Shut-Off                   |
|   | Alter Casing               | Fracture Treat           | Reclamation         |                      | Well Integrity                   |
| Subsequent Report   | Casing Repair              | New Construction         | Recomplete          |                      | X Other Change proposed          |
|   | X Change Plans             | Plug and Abandon         | Temporarily Aban    | don                  | BHL                              |
| Final Abandonment Notice  | Convert to Injection       | Plug Back                | 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.)

On 06-03-08, Cimarex submitted a 3160-5 with plans to revise its Re-entry plans for the Pintail 23 Fed Com No. 1 to a Horizontal Cisco Recompletion.

Cimarex would like to change its proposed BHL for this well as shown on the attached plats. The preliminary directional survey has also been revised and is attached. All that has changed in the proposed drilling plan is the TD, shown below:

Clean out cement plugs at the surface, 165'-265', 3350'-3475', 5300'-5450', 8410'-8650' to TD top of cement plug @ 11230.' Pull up and set kick off plug to kick off at 10270'. Drill curve at 25 deg/100' and land curve in the Cisco Canyon. Drill well to TD (MD 14108' and TVD 10537') and cement 4½" 11.6# N-80 LTC csg in place.

Cement with Lead 620 sx Interfill H + 0.3% HR-601 + 5 lb/sx Gilsonite + 0.125 lb/sx Poly-E-Flake + mixed at 11.9 ppg. Yield 2.47 cf/sx. Tail 480 sx Super H + 0.5% Halad \* 344 + 0.25% D-Air 3000 + 0.4% CFR-3 + 1 lb/sx Salt + 5 lb/sx Gilsonite + 0.125 lb/sx Poly-E-Flake + 0.35% HR-7 mixed at 13.2 ppf. Yield 1.61 cf/sx. Estimated TOC at 4,000 ft.

Frac in 5 stages.

Please see attached revised plat and revised preliminary directional survey.

SEE ATTACHED FOR CONDITIONS OF APPROVAL

| 14. I hereby certify that the foregoing | g is true and correct                        | _                               |                    |
|---|--|---------------------------------|--------------------|
| Name (Printed/Typed)                    |  | Title                           |                    |
| Natalie Krueger                         |  | Regulatory Analyst              |                    |
| Signature                               | 1 /  | Date                            | 4 DDD 01/ED        |
| 1 Natali                                | K1   |                                 | APPROVED           |
| Janam                                   | Hunger                                       | June 23, 2008                   |                    |
|   | / THIS SPACE                                 | FOR FEDERAL OR STATE OFFICE USE |                    |
| Approved by                             |  | Title                           | ₽₩Ł 2 1 2008       |
| Conditions of Approval, if any, are     | attached. Approval of this notice does       | not warrant or Office           | Mo                 |
| certify that the applicant holds lega   | al or equitable title to those rights in the | subject lease                   | WESLEY W. INGRAM   |
| which would entitle the applicant to    | conduct operations thereon.                  | • :                             | PETROLEUM ENGINFER |

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.

#### State of New Mexico

DISTRICT I 1625 N. FRENCH DR., BOBBS, NM 86240

Energy, Minerals and Natural Resources Department

DISTRICT II

1301 W. GRAND AVENUE, ARTESIA, NM 88210

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505

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

DISTRICT IV

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

| 1220 S. ST. FRANCIS DR., SANTA PE, NM 8750 | MEDI LOCATION AND | ACKEAGE DEDICATION I LAT | ☐ AMENDED REPORT |
|--|-------------------|--------------------------|------------------|
| API Number                                 | Pool Code         | Pool Name                |                  |
| 30-015-33431                               | 97354             | Cottonwood Draw; Upper   | Penn (Gas)       |
| Property Code                              | Prop              | erty Name                | Well Number      |
|  | PINTAIL 23        | FEDERAL COM              | 1                |
| OGRID No.                                  | Oper              | ator Name                | Elevation        |
| 162683                                     | CIMAREX ENERGY    | CO. OF COLORADO          | 3330'            |

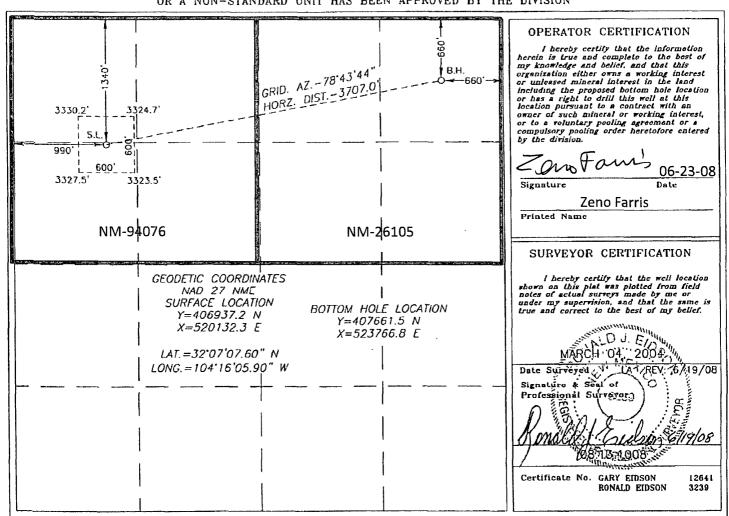
#### Surface Location

| 1 | UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
|   | E             | 23      | 25-S     | 26-E  |         | 1340          | NORTH            | 990           | WEST           | 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 |
|--|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
|  | Α             | 23      | 25-S     | 26-E  |         | 660           | NORTH            | 660           | EAST           | EDDY   |
| Dedicated Acres Joint or Infill Consolidation Code Order No. |               |         |          |       |         |               |                  |               |                |        |
|  | 320           |         |          | Р     |         |               |                  |               |                |        |

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





## Planned Wellpath Report Preliminary Page 1 of 3



| RÈFERI   | REFERENCE WELLPATH IDENTIFICATION |          |            |  |  |  |  |
|----------|-----------------------------------|----------|------------|--|--|--|--|
| Operator | Cimarex Energy Co. of Colorado    | Slot     | No. 1H SHL |  |  |  |  |
| Area     | Eddy County, NM                   | Well     | No. 1H     |  |  |  |  |
| Field    | (Pintail) Sec 23, T25S, R26E      | Wellbore | No. 1H PWB |  |  |  |  |
| Facility | Pintail 23 Fed Com No. 1H         |          |            |  |  |  |  |

| REPORT SETUP        | INFORMATION   |                      |                         |
|---------------------|---|----------------------|-------------------------|
| Projection System   | NAD27 / TM New Mexico State Planes, Eastern Zone (3001),<br>US feet | Software System      | WellArchitect® 2.0      |
| North Reference     | Grid  | User                 | Victor Hernandez        |
| Scale               | 0.99991   | Report Generated     | 6/23/2008 at 2:06:40 PM |
| Convergence at slot | 0.03° East  | Database/Source file | WA_Midland/No1H_PWB.xml |

| WELLPATH LOCATION     |           |          |               |                |                        |                 |
|-----------------------|-----------|----------|---------------|----------------|------------------------|-----------------|
|                       | Local coo | rdinates | Grid co       | ordinates      | Geographic coordinates |                 |
|                       | North[ft] | East[ft] | Easting[USft] | Northing[USft] | Latitude               | Longitude       |
| Slot Location         | 0.00      | 0.00     | 520132.30     | 406937.20      | 32°07'07.572"N         | 104°16'05.899"W |
| Facility Reference Pt |           |          | 520132.30     | 406937.20      | 32°07'07.572"N         | 104°16'05.899"W |
| Field Reference Pt    |           |          | 520132.30     | 406937.20      | 32°07'07.572"N         | 104°16'05.899"W |

| WELLPATH DATUM           |                        |  |                   |  |  |  |
|--------------------------|------------------------|--|-------------------|--|--|--|
| Calculation method       | Minimum curvature      | Rig on No. 1H SHL (RT) to Facility Vertical<br>Datum | 18.00ft           |  |  |  |
| Horizontal Reference Pt  | Facility Center        | Rig on No. 1H SHL (RT) to Mean Sea Level             | 3348.00ft         |  |  |  |
| 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                                      | 78.73°            |  |  |  |



## Planned Wellpath Report Preliminary Page 2 of 3



| REFER    | REFERENCE WELLPATH IDENTIFICATION |          |            |  |  |  |  |
|----------|-----------------------------------|----------|------------|--|--|--|--|
| Operator | Cimarex Energy Co. of Colorado    | Slot     | No. 1H SHL |  |  |  |  |
| Area     | Eddy County, NM                   | Well     | No. 1H     |  |  |  |  |
| Field    | (Pintail) Sec 23, T25S, R26E      | Wellbore | No. 1H PWB |  |  |  |  |
| Facility | Pintail 23 Fed Com No. 1H         |          |            |  |  |  |  |

| WELLPATH DATA (42 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 |  |
| 0.00  | 0.000              | 78.729         | 0.00        | 0.00              | 0.00          | 0.00         | 0.00             | Tie On   |  |
| 10270.00  | 0.000              | 78.729         | 10270.00    | 0.00              | 0.00          | 0.00         | 0.00             | KOP      |  |
| 10370.00†   | 24.910             | 78.729         | 10366.88    | 21.40             | 4.18          | 20.99        | 24.91            |          |  |
| 10470.00†   | 49.820             | 78.729         | 10445.73    | 81.61             | 15.95         | 80.04        | 24.91            |          |  |
| 10570.00計。  | . 741730           | 78.729         | 10491.89    | 169.43            | 33.11         | 166.17       | 24.91            | )        |  |
| 10628.85  | 89.391             | 78.729         | 10500.00    | 227.56            | 44.48         | 223.18       | 24.91            | EOC      |  |
| 10670.00†   | 89.391             | 78.729         | 10500.44    | 268.71            | 52.52         | 263.53       | 0.00             |          |  |
| 10770.00†   | 89.391             | 78.729         | 10501.50    | 368.70            | 72.06         | 361.59       | 0.00             |          |  |
| 10870.00†   | 89.391             | 78.729         | 10502.56    | 468.70            | 91.60         | 459.66       | 0.00             |          |  |
| 10970.00†   | 89.391             | 78:729         | 10503.63    | 568:69            | 111.15        | 557.72       | 0.00             |          |  |
| 11070.00†   | 89.391             | 78.729         | 10504.69    | 668.69            | 130.69        | 655.79       | 0.00             |          |  |
| 11170.00†   | 89.391             | 78.729         | 10505.75    | 768.68            | 150.23        | 753.86       | 0.00             |          |  |
| 11270.00†   | 89.391             | 78.729         | 10506.82    | 868.67            | 169.78        | 851.92       | 0.00             |          |  |
| 11370.00†   | 89.391             | 78.729         | 10507.88    | 968.67            | 189.32        | 949.99       | 0.00             |          |  |
| 11470.00†   | 89.391             | 78.729         | 10508.94    | 1068:66           | 208.86        | 1048.05      | 0.00             |          |  |
| 11570.00†   | 89.391             | 78.729         | 10510.01    | 1168.66           | 228.40        | 1146.12      | 0.00             |          |  |
| 11670.00†   | 89.391             | 78.729         | 10511.07    | 1268.65           | 247.95        | 1244.19      | 0.00             |          |  |
| 11770.00†   | 89.391             | 78.729         | 10512.14    | 1368.65           | 267.49        | 1342.25      | 0.00             |          |  |
| 11870.00†   | 89.391             | 78.729         | 10513.20    | 1468.64           | 287.03        | 1440.32      | 0.00             |          |  |
| 11970.00世   | 89,391             | 78.729         | 10514.26    | 1568:63           | 306.58        | 1538.38      | 0.00             |          |  |
| 12070.00†   | 89.391             | 78.729         | 10515.33    | 1668.63           | 326.12        | 1636.45      | 0.00             |          |  |
| 12170.00†   | 89.391             | 78.729         | 10516.39    | 1768.62           | 345.66        | 1734.52      | 0.00             |          |  |
| 12270.00†   | 89.391             | 78.729         | 10517.45    | 1868.62           | 365.21        | 1832.58      | 0.00             |          |  |
| 12370.00†   | 89.391             | 78.729         | 10518.52    | 1968.61           | 384.75        | 1930.65      | 0.00             |          |  |
| 12470.001   | 89,391             | 78.729         | 10519.58    | 2068.61           | 404:29        | 2028.71      | 0.00             |          |  |
| 12570.00†   | 89.391             | 78.729         | 10520.64    | 2168.60           | 423.83        | 2126.78      | 0.00             |          |  |
| 12670.00†   | 89.391             | 78.729         | 10521.71    | 2268.60           | 443.38        | 2224.85      | 0.00             |          |  |
| 12770.00†   | 89.391             | 78.729         | 10522.77    | 2368.59           | 462.92        | 2322.91      | 0.00             |          |  |
| 12870.00†   | 89.391             | 78.729         | 10523.83    | 2468.58           | 482.46        | 2420.98      | 0.00             |          |  |
| 12970.00†   | 89.391             | 78.729         | 10524.90    | 2568.58           | 502.01        | 2519.04      | 0.00             | 1        |  |



# Planned Wellpath Report Preliminary Page 3 of 3



| REFER    | ENCE WELLPATH IDENTIFICATION   |          | POR CARREST CONTRACTOR OF THE PROPERTY OF THE |
|----------|--------------------------------|----------|---|
| Operator | Cimarex Energy Co. of Colorado | Slot     | No. 1H SHL  |
| Area     | Eddy County, NM                | Well     | No. 1H  |
| Field    | (Pintail) Sec 23, T25S, R26E   | Wellbore | No. 1H PWB  |
| Facility | Pintail 23 Fed Com No. 1H      |          |   |

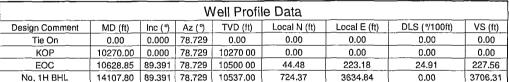
| WELLPATH D | WELLPATH DATA (42 stations) † = interpolated/extrapolated station |         |                       |           |          |         |           |            |  |  |  |
|------------|---|---------|-----------------------|-----------|----------|---------|-----------|------------|--|--|--|
| MD         | Inclination   | Azimuth | TVD                   | Vert Sect | North    | East    |           | Comments   |  |  |  |
| [ft]       | [°]   | [°]     | [ft]                  | [ft]      | [ft]     | [ft]    | [°/100ft] |            |  |  |  |
| 13070.00†  | 89.391  | 78.729  | 10525.96              | 2668.57   | 521.55   | 2617.11 | 0.00      |            |  |  |  |
| 13170.00†  | 89.391  | 78.729  | 10527.03              | 2768.57   | 541.09   | 2715.18 | 0.00      |            |  |  |  |
| 13270.00†  | 89.391  | 78.729  | 10528.09              | 2868.56   | 560.64   | 2813.24 | 0.00      |            |  |  |  |
| 13370.00†  | 89.391  | 78.729  | 10529.15              | 2968.56   | 580.18   | 2911.31 | 0.00      |            |  |  |  |
| 13470.00†  | 89.391  | 78.729  | . 10530.22            | 3068.55   | . 599.72 | 3009.37 | 0.00      |            |  |  |  |
| 13570.00†  | 89.391  | 78.729  | 10531.28              | 3168.54   | 619.27   | 3107.44 | 0.00      |            |  |  |  |
| 13670.00†  | 89.391  | 78.729  | 10532.34              | 3268.54   | 638.81   | 3205.51 | 0.00      |            |  |  |  |
| 13770.00†  | 89.391  | 78.729  | 10533.41              | 3368.53   | 658.35   | 3303.57 | 0.00      |            |  |  |  |
| 13870.00†  | 89.391  | 78.729  | 10534.47              | 3468.53   | 677.89   | 3401.64 | 0.00      |            |  |  |  |
| 13970.00†  | 89.391  | 78.729  | 10535:53              | 3568.52   | 697.44   | 3499.70 | 0.00      |            |  |  |  |
| 14070.00†  | 89.391  | 78.729  | 10536.60              | 3668.52   | 716.98   | 3597.77 | 0.00      |            |  |  |  |
| 14107.80   | 89.391  | 78.729  | 10537.00 <sup>1</sup> | 3706.31   | 724.37   | 3634.84 | 0.00      | No. 1H BHL |  |  |  |

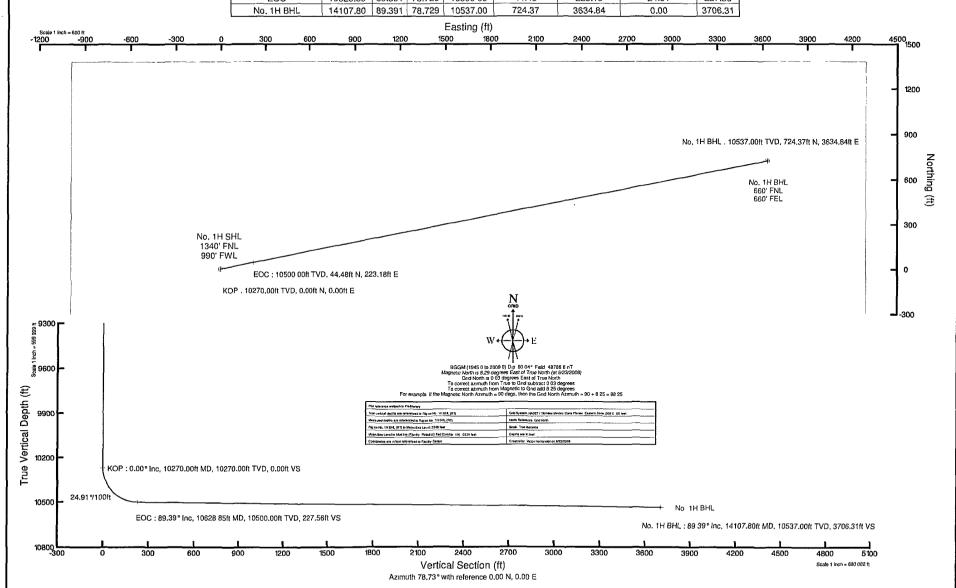
| TARGETS       | ************************************** |             |               |              | i and in the second sec | A THE PARTY OF THE |                |                 |       |
|---------------|--|-------------|---------------|--------------|--|--|----------------|-----------------|-------|
| 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 | 14107.80                               | 10537.00    | 724.37        | 3634.84      | 523766.80  | 407661.50  | 32°07'14.717"N | 104°15'23.631"W | point |

| SURVEY PROGRAM Ref Wellbore: No. 1H PWB Ref Wellpath: Preliminary |             |                              |                  |            |  |  |  |  |  |
|---|-------------|------------------------------|------------------|------------|--|--|--|--|--|
| Start MD [ft]   | End MD [ft] | Positional Uncertainty Model | Log Name/Comment | Wellbore   |  |  |  |  |  |
| 18.00   |             | NaviTrak (Standard)          | 1                | No. 1H PWB |  |  |  |  |  |

### Cimarex Energy Co. of Colorado Location: Eddy County, NM Field (Pintail) Sec 23, T25S, R26E Facility Pintail 23 Fed Com No. 1H Wallbore No. 1H PWB







### PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME: | Cimarex Energy Co. of Colorado

LEASE NO.: NM 94076 SHL / NM 26105 BHL

WELL NAME & NO.: | Pintail 23 Fed Com 1 SURFACE HOLE FOOTAGE: | 1340' FNL & 0990' FWL

BOTTOM HOLE FOOTAGE: 1340' FNL & 0990' FWL BOTTOM HOLE FOOTAGE: 1110' FNL & 0660' FEL

LOCATION: Section 23, T. 25 S., R 26 E., NMPM

**COUNTY:** Eddy County, New Mexico

#### **RE-ENTRY**

#### I. DRILLING

#### A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified a minimum of 4 hours in advance for a representative to witness:

- a. Spudding well
- b. Setting and/or Cementing of all casing strings
- c. BOPE tests

#### **Eddy County**

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

- 1. Although Hydrogen Sulfide has not been reported in this section, it is always a potential hazard. H2S has been reported in section 11, 13 and 14 from the Delaware formation measuring from 1200-1500 in STV. If Hydrogen Sulfide is encountered, please report measured amounts and formations to the BLM.
- 2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
- 3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

#### B. CASING

Changes to the approved APD casing and cement program require submitting a sundry and receiving approval prior to work. Failure to obtain approval prior to work will result in an Incident of Non-Compliance being issued.

Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string.

BOP/BOPE AND A CASING TEST WILL BE PERFORMED AFTER DRILLING OUT THE FIRST TWO PLUGS (ONE FROM SURFACE TO 60' AND ONE FROM 165' TO 265'). THESE TESTS WILL BE PERFORMED PRIOR TO DRILLING OUT THE 9 5/8 SHOE PLUG.

Possible abnormal pressures in the Wolfcamp and high pressure gas down through the Pennsylvanian Section.

- 1. The 13 3/8 inch surface casing already exists at a depth of 216 feet and was circulated to surface.
- 2. The <u>9 5/8-inch</u> intermediate casing already exists at a depth of 3431 feet and was circulated to surface.

Formation below the 9-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i.

Kick off plug will be set from 10000-10600' and dressed to 10240' for kick off.

Centralizers required on horizontal leg, must be type for horizontal service and minimum of one every other joint.

- 3. The minimum required fill of cement behind the 5 -1/2 and 4-1/2 inch production casing is:
  - Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification. Additional cement will be required.
- 4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

#### C. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required will be a 5000 (5M) psi.
- 3. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
  - a. The tests shall be done by an independent service company.
  - b. The results of the test shall be reported to the appropriate BLM office.
  - c. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
  - d. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug.
  - e. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the **Wolfcamp** formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

#### D. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the **Wolfcamp** formation, and shall be used until production casing is run and cemented.

#### E. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

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