## RECEIVED

Form 3160-3 (April 2004) DEC 0 8 2008

N.M. Oil Cons. Division 1625 N. French Dr. Hobbs, NM 88240

**HOBBSOCD** 

UNITED STATES

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB No 1004-0137 Expires March 31, 200

5. Lease Serial No.

Surface - Privately Owned
SHL LC-064900 BHL NM-0153471

| BUREAU OF LAND  | 6. If Indian, Allotee or 7  | 6. If Indian, Allotee or Tribe Name                       |              |                                    |                        |  |  |
|---|-----------------------------|---|--------------|------------------------------------|------------------------|--|--|
| APPLICATION FOR PERMIT  | TO DRILL OR F               | REENTER   |              |                                    |                        |  |  |
| 1a. Type of Work: X DRILL RE  | ENTER                       |   |              | 7. If Unit or CA Agreen            | nent, Name and No      |  |  |
|   |                             |   |              | Pending                            | 1                      |  |  |
|   |                             | -   |              | 8. Lease Name and Wel              | 1 No. (3531)           |  |  |
| lb Type of Well: X Oil Well Gas Well Other  | X Su                        | ngle Zone Multipl   | e Zone       | Coral Sea 7 Federa                 | al Com No. 2           |  |  |
| 2. Name of Operator   |                             | ٠, ٠, ٠, ٠  |              | 9. API Well No.                    | ~~ ,                   |  |  |
| Cimarex Energy Co. of Colorado  |                             | 162683)   |              | 30-005- 291                        | <u> </u>               |  |  |
| 3a Address<br>PO Box 140907   | 3b Phone No                 | (include area code)                                       |              | 10. Field and Pool, or E           | xploratory             |  |  |
| Irving, TX 75014  | 972-401-3                   |   |              | Abo; Wildcat                       |                        |  |  |
| 4. Location of Well (Report location clearly and in accordance  | with any State red<br>Ln it |   |              | 11. Sec., T. R. M. or Blk. as      | ad Survey or Area      |  |  |
| At Surface 330 FSL & 375 FEL  | Den 23                      | ,   |              |                                    |                        |  |  |
| At proposed prod. Zone 330 FSL & 375 FWL  | MAITIN                      | oposed Horizontal At                                      | oo Test      | 7-15S-31E                          | ·····                  |  |  |
| 14. Distance in miles and direction from nearest town or post of  | ffice*                      |   |              | , 12. County or Parish             | 13. State              |  |  |
|   |                             |   |              | Chaves                             | NM                     |  |  |
| 15 Distance from proposed*  | 16. No of acre              | s in lease  | 17. Space    | ing Unit dedicated to this wel     | 1                      |  |  |
| location to nearest property or lease line, ft  | LC-0649                     | 00 - 760 acres  |              |                                    |                        |  |  |
| (Also to nearest drig. unit line if   | 37.604.50                   | <b>5</b> 1 <b>5</b> 0 0 6                                 |              | 2020 172 1                         |                        |  |  |
| any) 330 18 Distance from proposed location*  | 19. Proposed I              | 71 - 79.06 acres  | 20 BLM       | S2S2 159.1<br>BIA Bond No. on File |                        |  |  |
| to nearest well, drilling, completed,   |                             | Hole 9500   | Zo. DEM      | DIT BOILD THO. OIL THO             |                        |  |  |
| applied for, on this lease, ft.   |                             | D 13002   |              | N. 1.0555                          |                        |  |  |
| NA  |                             | VD 8615   | . 1          | NM-2575                            |                        |  |  |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.)   | 22. Approxim                | ate date work will start                                  |              | 23. Estimated duration             |                        |  |  |
| 4,447' GR   | 9                           | 0/15/2008   |              | 35-45 0                            | lavs                   |  |  |
|   | 24. /                       | Attachments   | ROSWELL      | CONTROLLED WATER BAS               | NTROLLED WATER BASIN   |  |  |
| The following, completed in accordance with the requirements of   | Onshore Oil and             | Gas Order No. 1, shall b                                  | e attached t | o this form.                       |                        |  |  |
| Well plat certified by a registered surveyor  |                             |   |              | ons unless covered by an exist     | ting hand on file (see |  |  |
| 2. A Drilling Plan  |                             | Item 20 above   | e).          | an entre                           | mg cond on the (see    |  |  |
| 3 A Surface Use Plan (if the location is on National Forest Syste<br>SUPO shall be filed with the appropriate Forest Service Office                           |                             | <ol> <li>Operator Cert</li> <li>Such other sit</li> </ol> |              | formation and/or plans as ma       | v be required by the   |  |  |
|   | ·/                          | authorized off  | -            |                                    | ,                      |  |  |
| 25. Signature   | Name (I                     | Printed/Typed)  |              |                                    | Date                   |  |  |
| Zeno Farris   | Zeno                        | Farris  |              |                                    | 08.07.08               |  |  |
| Title   |                             |   |              |                                    |                        |  |  |
| Manager Operations Administration   |                             |   |              |                                    |                        |  |  |
| Approved By (Signature)   | Name (I                     | Printed/Typed)  | r            |                                    | Date                   |  |  |
| /s/ Jerry Dutchover  Title Assistant Field Manage   | <u> </u>                    | /s/ Jerry   | Dutch        | over                               | MA DEC 2008            |  |  |
| Adding Lands And Minerals   | Office                      | ROSWELL FIEI  | LD OFFI      | TE AF                              | Proved for 2 years     |  |  |
| Application approval does not warrant or certify that the applicant holds le  | gal or equitable title      |   |              |                                    |                        |  |  |
| conduct operations thereon.   | on or education title       | to mose rights in the subj                                | icase wille  | n would entitle the applicant to   |                        |  |  |
| Conditions of approval, if any, are attached  Title 18 U.S.S. Section 1001 and Title 43 U.S.C. Section 1212 make it as  | minus Con n                 | Linewinsky and museum                                     |              | 2                                  |                        |  |  |
| Title 18 U.S.S. Section 1001 and Title 43 U.S.C. Section 1212, make it a c<br>States any false, fictitious, or fraudulent statements or representations as to |                             |   | make to any  | department or agency of the Unit   | ea I /                 |  |  |
| * (Instructions on page 2)  |                             | *   | *1           |                                    | 1/1/                   |  |  |

BECLARED WATER BASIN

CTARATI BEHIND THE 133" WITNESS CASING MUST BE CIRCULATED

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS ATTACHED

DISTRICT I 1825 N. French Dr., Hobbs, NM 88240 DISTRICT II

State of New Mexico Energy, Minerals and Natural Resources Department Form C-102 Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies
Fee Lease - 3 Copies

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

1301 W. Grand Avenue, Artesia, NM 88210

DISTRICT IV 1220 S. St. Francis Dr., Santa Fe. NM 87505 OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

☐ AMENDED REPORT

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

| API Number       | Pool Code                      | Pool Name     |  |  |  |  |
|------------------|--------------------------------|---------------|--|--|--|--|
| 30-005-29071     |                                | Abo Wildcat   |  |  |  |  |
| Property Code    | Prop                           | Well Number   |  |  |  |  |
| 37531            | CORAL SEA "                    | 2             |  |  |  |  |
| OGRID No.        | Oper                           | Operator Name |  |  |  |  |
| 162683           | CIMAREX ENERGY CO. OF COLORADO |               |  |  |  |  |
| Surface Location |                                |               |  |  |  |  |

| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| Р             | 7       | 15 S     | 31 E  |         | 330           | SOUTH            | 375           | EAST           | CHAVES |

#### 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              | 7  | 15 S     | 31 E    |         | 330           | SOUTH            | 375           | WEST           | CHAVES |
| Dedicated Acre | Dedicated Acres   Joint or Infill   Consolidation Code |          | Code Or | der No. |               |                  |               |                |        |
| 159.1          |  |          | 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

|  |            |  | OPERATOR CERTIFICATION  I hereby certify that the information contained herein is true and complete to the test of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofcre entered by the division.   |
|--|------------|--|--|
| BOTTOM HOLE LOCATION<br>Lat - N33°01'26.16"<br>Long - W103°52'06.90"<br>NMSPCE- N 736603.032<br>E 683781.319<br>(NAD-83) |            | SURFACE LOCATION<br>Lat - N33°01'26.58"<br>Long - W103°51'14.07"<br>NMSPCE- N 736621.8<br>E 688279.0<br>(NAD-83) | 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 supervison, and that the same is true and correct to the best of my belief.  APRIL 19 2008  Date Survey 18 19 2008  |
| 375'<br><br><br><br>   | NM-0153471 | LC-064900  | Signatur & Sall Professional Reveyor & Reveyor |



## Planned Wellpath Report Preliminary Page 1 of 4



| REFER    | REFERENCE WELLPATH IDENTIFICATION |          |            |  |  |  |  |  |
|----------|-----------------------------------|----------|------------|--|--|--|--|--|
| Operator | Cimarex Energy Co. of Colorado    | Slot     | No. 2H SHL |  |  |  |  |  |
| Area     | Chaves County, NM                 | Well     | No. 2H     |  |  |  |  |  |
| Field    | (Coral) Sec 7, T15S, R31E         | Wellbore | No. 2H PWB |  |  |  |  |  |
| Facility | Coral Sea 7 Fed Com No. 2H        |          |            |  |  |  |  |  |

| REPORT SETUP        | INFORMATION   |                      |                         |
|---------------------|---|----------------------|-------------------------|
|                     | NAD83 / TM New Mexico State Planes, Eastern Zone (3001),<br>US feet | Software System      | WellArchitect® 2.0      |
| North Reference     | Grid  | User                 | Victor Hernandez        |
| Scale               | 0.999934  | Report Generated     | 5/29/2008 at 2:31:15 PM |
| Convergence at slot | 0.26° East  | Database/Source file | WA_Midland/No2H_PWB.xml |

| WELLPATH LOCATION     |           |                   |               |                |                        |                 |  |  |
|-----------------------|-----------|-------------------|---------------|----------------|------------------------|-----------------|--|--|
|                       | Local coo | Local coordinates |               | ordinates      | Geographic coordinates |                 |  |  |
|                       | North[ft] | East[ft]          | Easting[USft] | Northing[USft] | Latitude               | Longitude       |  |  |
| Slot Location         | 0.00      | 0.00              | 688279.00     | 736621.80      | 33°01'26.583"N         | 103°51'14.067"W |  |  |
| Facility Reference Pt |           |                   | 688279.00     | 736621.80      | 33°01'26.583"N         | 103°51'14.067"W |  |  |
| Field Reference Pt    |           |                   | 688317.50     | 738271.10      | 33°01'42.900"N         | 103°51'13.527"W |  |  |

| WELLPATH DATUM           |                        |   |                   |
|--------------------------|------------------------|---|-------------------|
| Calculation method       | Minimum curvature      | Rig on No. 2H SHL (RT) to Facility Vertical Datum | 18.00ft           |
| Horizontal Reference Pt  | Facility Center        | Rig on No. 2H SHL (RT) to Mean Sea Level          | 4465.00ft         |
| Vertical Reference Pt    | Rig on No. 2H SHL (RT) | Facility Vertical Datum to Mud Line (Facility)    | 0.00ft            |
| MD Reference Pt          | Rig on No. 2H SHL (RT) | Section Origin                                    | N 0.00, E 0.00 ft |
| Field Vertical Reference | Mean Sea Level         | Section Azimuth                                   | 269.76°           |





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| REFER    | REFERENCE WELLPATH IDENTIFICATION |          |            |  |  |  |  |  |
|----------|-----------------------------------|----------|------------|--|--|--|--|--|
| Operator | Cimarex Energy Co. of Colorado    | Slot     | No. 2H SHL |  |  |  |  |  |
| Area     | Chaves County, NM                 | Well     | No. 2H     |  |  |  |  |  |
| Field    | (Coral) Sec 7, T15S, R31E         | Wellbore | No. 2H PWB |  |  |  |  |  |
| Facility | Coral Sea 7 Fed Com No. 2H        |          |            |  |  |  |  |  |

| WELLPATH DA | ATA (50 station | s) † = inter | polated/extra         | apolated stati    | on            |                 | <del></del>      |  |
|-------------|-----------------|--------------|-----------------------|-------------------|---------------|-----------------|------------------|--|
| MD<br>[ft]  | Inclination [°] | Azimuth [°]  | TVD<br>[ft]           | Vert Sect<br>[ft] | North<br>[ft] | East<br>[ft]    | DLS<br>[°/100ft] | Comments   |
| 0.00        | 0.000           | 269.761      | 0.00                  | 0.00              | 0.00          | 0.00            | 0.00             | Tie On   |
| 8395.00     | 0.000           | 269.761      | 8395.00               | 0.00              | 0.00          | 0.00            | 0.00             | KOP  |
| 8495.00†    | 30.000          | 269.761      | 8490.49               | 25.59             | -0.11         | -25.59          | 30.00            |  |
| 8595.00†    | 60.000          | 269.761      | 8560.40               | 95.49             | -0.40         | -95.49          | 30.00            |  |
| 8693.71     | 89.614          | 269.761      | - 8585.98             | 189.70            | -0.79         | <i>₌</i> 189.70 | 30.00            | End Of Curve   |
| 8695.00†    | 89.614          | 269.761      | 8585.99               | 190.99            | -0.80         | -190.98         | 0.00             |  |
| 8795.00†    | 89.614          | 269.761      | 8586.66               | 290.98            | -1.21         | -290.98         | 0.00             |  |
| 8895.00†    | 89.614          | 269.761      | 8587.34               | 390.98            | -1.63         | -390.98         | 0.00             |  |
| 8995.00†    | 89.614          | 269.761      | 8588.01               | 490.98            | -2.05         | -490.97         | 0.00             |  |
| ×9095.00†   | 89.614          | 269.761      | 8588.68               | 590!98            | 2.47          |                 | 0.00             |  |
| 9195.00†    | 89.614          | 269.761      | 8589.36               | 690.97            | -2.88         | -690.97         | 0.00             |  |
| 9295.00†    | 89.614          | 269.761      | 8590.03               | 790.97            | -3.30         | -790.97         | 0.00             |  |
| 9395.00†    | 89.614          | 269.761      | 8590.70               | 890.97            | -3.72         | -890.96         | 0.00             |  |
| 9495.00†    | 89.614          | 269.761      | 8591.38               | 990.97            | -4.14         | -990.96         | 0.00             |  |
| 9595:00†    | 89.614          | 269.761      | 8592.05               | 1090.97           | 4.55          | ÷1090.96        | 0.00             |  |
| 9695.00†    | 89.614          | 269.761      | 8592.73               | 1190.96           | -4.97         | -1190.95        | 0.00             |  |
| 9795.00†    | 89.614          | 269.761      | 8593.40               | 1290.96           | -5.39         | -1290.95        | 0.00             |  |
| 9895.00†    | 89.614          | 269.761      | 8594.07               | 1390.96           | -5.80         | -1390.95        | 0.00             |  |
| 9995.00†    | 89.614          | 269.761      | 8594.75               | 1490.96           | -6.22         | -1490.94        | 0.00             |  |
| 10095.00†   | 89.614          | 269.761      | 8595.42               | 1590.95           |               | 1590.94         | 0.00             | P\$ 4 - 4 - 10 P 2 P 1 P 2 P 2   |
| 10195.00†   | 89.614          | 269.761      | 8596.09               | 1690.95           | -7.06         | -1690.94        | 0.00             |  |
| 10295.00†   | 89.614          | 269.761      | 8596.77               | 1790.95           | -7.47         | -1790.93        | 0.00             |  |
| 10395.00†   | 89.614          | 269.761      | 8597.44               | 1890.95           | -7.89         | -1890.93        | 0.00             |  |
| 10495.00†   | 89.614          | 269.761      | 8598.11               | 1990.95           | -8.31         | -1990.93        | 0.00             |  |
|             |                 | 269.761      | € <sup>18598.79</sup> | 2090.94           | ∈8.73         | 2090.92         | 0.00             | <b>最少的分别</b>   |
| 10695.00†   | 89.614          | 269.761      | 8599.46               | 2190.94           | -9.14         | -2190.92        | 0.00             |  |
| 10795.00†   | 89.614          | 269.761      | 8600.13               | 2290.94           | -9.56         | -2290.92        | 0.00             |  |
| 10895.00†   | 89.614          | 269.761      | 8600.81               | 2390.94           | -9.98         | -2390.92        | 0.00             |  |
| 10995.00†   | 89.614          | 269.761      | 8601.48               | 2490.93           | -10.39        | -2490.91        | 0.00             |  |
| 11095.00t   | 89.614          | 269.761      | 8602.15               | 2590.93           | . ∵::10.81    | ⊴≥ 2590.91      | 0.00             | Design of the control |





# Planned Wellpath Report Preliminary Page 3 of 4



| REPER    | REFERENCE WELLPATH IDENTIFICATION |          |            |  |  |  |  |  |
|----------|-----------------------------------|----------|------------|--|--|--|--|--|
| Operator | Cimarex Energy Co. of Colorado    | Slot     | No. 2H SHL |  |  |  |  |  |
| Area     | Chaves County, NM                 | Well     | No. 2H     |  |  |  |  |  |
| Field    | (Coral) Sec 7, T15S, R31E         | Wellbore | No. 2H PWB |  |  |  |  |  |
| Facility | Coral Sea 7 Fed Com No. 2H        |          |            |  |  |  |  |  |

| WELLPATH DA  | TA (50 station | s) †= inter | polated/extra        | polated statio | n      |                   |             | ,               |
|--------------|----------------|-------------|----------------------|----------------|--------|-------------------|-------------|-----------------|
| MD           | Inclination    | Azimuth     | TVD                  | Vert Sect      | North  | East              |             | Comments        |
| [ft]         | [°]            | [°]         | [ft]                 | [ft]           | [ft]   | [ft]              | [°/100ft]   |                 |
| 11195.00†    | 89.614         | 269.761     | 8602.83              | 2690.93        | -11.23 | -2690.91          | 0.00        |                 |
| 11295.00†    | 89.614         | 269.761     | 8603.50              | 2790.93        | -11.65 | -2790.90          | 0.00        |                 |
| 11395.00†    | 89.614         | 269.761     | 8604.18              | 2890.92        | -12.06 | -2890.90          | 0.00        |                 |
| 11495.00†    | 89.614         | 269.761     | 8604.85              | 2990.92        | -12.48 | -2990.90          | 0.00        |                 |
| 分: 11595:00† | 89.614         | 269.761     | 8605.52              | 3090.92        | =12.90 | \$ <u>3090.89</u> | 0.00        | 838, 19.00 Mar. |
| 11695.00†    | 89.614         | 269.761     | 8606.20              | 3190.92        | -13.32 | -3190.89          | 0.00        |                 |
| 11795.00†    | 89.614         | 269.761     | 8606.87              | 3290.92        | -13.73 | -3290.89          | 0.00        |                 |
| 11895.00†    | 89.614         | 269.761     | 8607.54              | 3390.91        | -14.15 | -3390.88          | 0.00        |                 |
| 11995.00†    | 89.614         | 269.761     | 8608.22              | 3490.91        | -14.57 | -3490.88          | 0.00        |                 |
| 2095.00†     | 89.614         | 269.761     | 8608.89              | 3590.91        | =14.98 | -3590.88          | )<br>(0.00) |                 |
| 12195.00†    | 89.614         | 269.761     | 8609.56              | 3690.91        | -15.40 | -3690.87          | 0.00        |                 |
| 12295.00†    | 89.614         | 269.761     | 8610.24              | 3790.90        | -15.82 | -3790.87          | 0.00        |                 |
| 12395.00†    | 89.614         | 269.761     | 8610.91              | 3890.90        | -16.24 | -3890.87          | 0.00        |                 |
| 12495.00†    | 89.614         | 269.761     | 8611.58              | 3990.90        | -16.65 | -3990.86          | 0.00        |                 |
| 12595:00†    | 89.614         | 269.761     | 8612.26              | 4090.90        | 17.07  | <i>≟</i> 4090.86  |             |                 |
| 12695.00†    | 89.614         | 269.761     | 8612.93              | 4190.90        | -17.49 | -4190.86          | 0.00        |                 |
| 12795.00†    | 89.614         | 269.761     | 8613.60              | 4290.89        | -17.90 | -4290.86          | 0.00        |                 |
| 12895.00†    | 89.614         | 269.761     | 8614.28              | 4390.89        | -18.32 | -4390.85          | 0.00        |                 |
| 12995.00†    | 89.614         | 269.761     | 8614.95              | 4490.89        | -18.74 | -4490.85          | 0.00        |                 |
| 13002-14     | 89.614         | 6 J269.761  | 8615.00 <sup>1</sup> |                | -18.77 | -4497.99          | 0.00        | No 2H BHL       |





# Planned Wellpath Report Preliminary Page 4 of 4



| REFER    | ENCE WELLPATH IDENTIFICATION   |          |            |
|----------|--------------------------------|----------|------------|
| Operator | Cimarex Energy Co. of Colorado | Slot     | No. 2H SHL |
| Area     | Chaves County, NM              | Well     | No. 2H     |
| Field    | (Coral) Sec 7, T15S, R31E      | Wellbore | No. 2H PWB |
| Facility | Coral Sea 7 Fed Com No. 2H     |          |            |

| TARGETS       | ·          |             |               |              |                       |                        |                 | A CONTRACTOR OF THE PROPERTY O |       |
|---------------|------------|-------------|---------------|--------------|-----------------------|------------------------|-----------------|--|-------|
| 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. 2H BHL | 13002.14   | 8615.00     | -18.77        | -4497.99     | 683781.32             | 736603.03              | .33°01'26.597"Ñ | 103°52'06.895"W  | point |

| SURVEY PROGRAM Ref Wellbore: No. 2H PWB Ref Wellpath: Preliminary |                |                              |                  |            |  |  |  |
|---|----------------|------------------------------|------------------|------------|--|--|--|
| Start MD<br>[ft]  | End MD<br>[ft] | Positional Uncertainty Model | Log Name/Comment | Wellbore   |  |  |  |
| 18.00   | 13002.14       | NaviTrak (Standard)          |                  | No. 2H PWB |  |  |  |



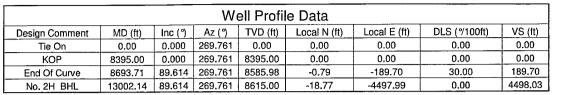


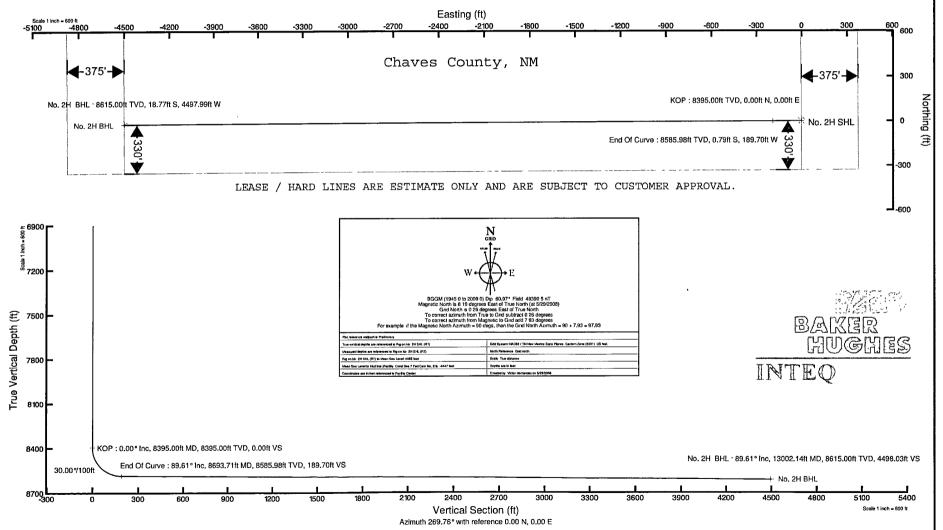
## Cimarex Energy Co. of Colorado

Location: Chaves County, NM Field: (Coral) Sec 7, T15S, R31E Facility: Coral Sea 7 Fed Com No. 2H

Well: No. 2H Wellbore: No. 2H PWB







### Operator - Landowner Agreement

| Company:   | Cimarex Energy          | / Co. of Colorado          | _                                  |
|--|-------------------------|----------------------------|------------------------------------|
| Proposed Well:   | Coral Sea 7 Fe          | deral Com No. 2            | _                                  |
| Federal Lease Number:  | SHL LC-064900           | BHL NM-0153471             | _                                  |
|  |                         |                            |                                    |
| This is to advise that Cimarex Ener 50; Maljamar, NM 88264 the surfacompletion of drilling operations at | ce owner, concerning er | ntry and surface restorate |                                    |
| After abandonment of the well, all premoved from the well site. No oth                                   |                         | , ,                        |                                    |
|  |                         | _                          | •                                  |
| August 7, 2008   |                         | Signature                  | Zeno Farris                        |
| Date   |                         | Oignature                  | Manager, Operations Administration |

## Application to Drill

#### Coral Sea 7 Federal Com No. 2

Cimarex Energy Co. of Colorado Unit P, Section 7

T15S R31E; Chaves County, NM

In response to questions asked under Section II B of Bulletin NTL-6, the following information is provided for your consideration:

Location:

SHL

330 FSL & 375 FEL

BHL

330 FSL & 375 FWL

Proposed Horizontal Abo Test

Elevation above sea level:

4,447 GR

Geologic name of surface formation:

Quaternery Alluvium Deposits

Drilling tools and associated equipment:

Conventional rotary drilling rig using fluid as a circulating medium for solids removal.

Proposed drilling depth:

Pilot Hole 9500

MD 13002

TVD 8615

Estimated tops of geological markers:

| Yates              | 2,312  |
|--------------------|--------|
| Queen              | 3,090' |
| SanAndres          | 3,940  |
| Abo Shale          | 7,340  |
| Lower Abo Dolomite | 8,585  |
| Wolfcamp LS        | 8,675  |

#### Possible mineral bearing formation:

Abo

Oil

Wolfcamp Oil

Queen

Oil

#### Proposed Mud Circulating System:

| Depth |    | Mud Wt | Visc      | Fluid Loss | Type Mud      |   |
|-------|----|--------|-----------|------------|---------------|---|
| 0     | to | 340    | 8.4 - 8.6 | 30-32      | May lose circ | Fresh water spud mud  |
| 340   | to | 3,950  | 10.0      | 28-29      | May lose circ | Brine Water   |
| 3,950 | to | 9,500  | 8.6 - 9.5 | 28-29      | NC            | Fresh water and brine, use hi-vis sweeps to keep hole clean |
| 8,395 | to | 13,002 | 8.4 - 8.9 | 28         | NC            | 2% KCI  |

Sufficient mud materials will be kept on location at all times in order to combat lost circulation, or unexpected kicks. In order to run DSTs, open hole logs, and casing, the viscosity and water loss may have to be adjusted in order to meet these needs. Mud system monitoring equipment with derrick floor indicators and visual/audio alarms shall be installed and operative prior to drilling into the Wolfcamp formation. This equipment will remain in use until production casing is run and cemented.

Drill 7%" pilot hole to 9500' and run and cement 7" casing as shown on next page. Set KO Plug @ 8405.' Mill window from 8390' to 8400' and kick off lateral leg @ 8395.' Drill lateral 61/2" hole to 13002' MD & 8615' TVD. Run 41/2" 11.6# P-110 BTC (Peak Systems Iso-Pak Liner) from RSB packer @ 8288' to 8694' (End of Curve) and LTC from 8694' to TD @ MD 13002' and TVD 8615.' No cement required for Peak Systems Liner. Lateral length 4498' and liner length 4714.'

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T15S R31E; Chaves County, NM

#### Casing Program:

| Hole Size (inches) |      | Depth |       | Casing OD (inches) |      | Weight (lbs) | Thread | Collar | Grade |
|--------------------|------|-------|-------|--------------------|------|--------------|--------|--------|-------|
| 17½                | 0    | to    | 340   | New                | 13%  | 48           | 8-R    | STC    | H-40  |
| 12¼                | 0    | to    | 3950  | New                | 9%   | 40           | 8-R    | LTC    | J-55  |
| 8¾                 | 0    | to    | 9500  | New                | 7    | 26           | 8-R    | LTC    | P-110 |
| 6%                 | 8288 | to    | 8694  | New                | 41/2 | 12           | 8-R    | втс    | P-110 |
| 61⁄3               | 8694 |       | 13002 | New                | 41/2 | 12           | 8-R    | LTC    | P-110 |

#### 10 Cementing Program:

Surface

Lead: 110 sx Light Premium Plus + 0.125 lb/sk Poly-E-Flake + 1% CaCl₂ (wt 14.2, yld 1.64)

Tail: 220 sx Premium Plus + 2% CaCl<sub>2</sub> (wt 14.8, yld 1.35)

TOC

Surface

Intermediate Lead: 450 sx Interfill C + 0.125 lb/sk Poly-E-Flake (wt 11.9, yld 2.45)

Tail: 200 sx Premium Plus + 1% CaCl<sub>2</sub> (wt 14.8, yld 1.33)

TOC

Surface

Production

615 sx Super H + 0.5% Halad-344 + 0.4% CFR-3 + 1lbm/sk Salt + 5 lb/sk Gilsonite + 0.125 lb/sk Poly-E-Flake + 0.35% HR-7

(wt 13.0, yld 1.67)

TOC

3.750

Liner

Peak Systems Iso-Pack Liner will not require cementing.

Fresh water will be protected by setting surface casing at

and cementing to

Surface

Hydrocarbon zones will be protected by setting intermediate casing at

3950 and cementing to **Surface** 

and by setting production casing at

9500 and cementing to 3750

Cimarex uses the following minimum safety factors:

Burst 1.125 Collapse 1.125

Tension 1.80

Page 2

Application to Drill

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Cimarex Energy Co. of Colorado

Unit P, Section 7

T15S R31E; Chaves County, NM

#### 11 Pressure control Equipment:

Exhibit "E". A 13%" 5000 PSI working pressure B.O.P. consisting of one set of blind rams and one set of pipe rams and a 5000 # annular type preventer. A choke manifold and 120 gallon accumulator with floor and remote operating stations and auxiliary power system. Rotating head below 6000'. A kelly cock will be installed and maintained in operable condition and a drill string safety valve in the open position will be available on the rig floor.

BOP unit will be hydraulically operated. BOP will be nippled up and operated at least once a day while drilling and the blind rams will be operated when out of hole during trips. No abnormal pressure or temperature is expected while drilling. From the base of the surface pipe through the running of production casing, the well will be equipped with a 5000 psi BOP system.

We are requesting a variance for testing the 13%" surface casing from Onshore Order No. 2, which states that all casing strings below the conductor shall be pressure tested to 0.22 psi per foot or 1500 psi, whichever is greater, but not to exceed 70% of the manufacturer's stated maximum internal yield. We are requesting to test the 13%" casing to 1000 psi using rig pumps. The BOP will be tested to 5000 PSI by an independent service company.

#### 12 Testing, Logging and Coring Program:

A. Mud logging program: 2 man unit from 3950' to TD

B. Electric logging program: CNL/LDT/CAL/GR, DLL/CAL/GR

C. No DSTs or cores are planned at this time.

#### 13 Potential Hazards:

No abnormal pressures or temperatures are expected. The area has a potiential H2S hazard. An H2S drilling plan is attached. Adequate flare lines will be installed off the mud / gas separator where gas may be flared safely. All personnel will be familiar with all aspects of safe operation of equipment being used.

Estimated BHP

4000 psi

Estimated BHT

175

14 Road and location construction will begin after BLM approval of APD. Anticipated spud date as soon as approved.

Drilling expected to take

35-45 days

If production casing is run an additional 30 days will be required to complete and construct surface facilities.

#### 15 Other Facets of Operations:

After running casing, cased hole gamma ray neutron collar logs will be run from total depth over possible pay intervals.

Abo pay will be perforated and stimulated.

The proposed well will be tested and potentialed as an oil well.

### Hydrogen Sulfide Drilling Operations Plan

#### Coral Sea 7 Federal Com No. 2

Cimarex Energy Co. of Colorado Unit P, Section 7

T15S R31E; Chaves County, NM

- 1 All Company and Contract personnel admitted on location must be trained by a qualified H₂S safety instructor to the following:
  - A. Characteristics of H<sub>2</sub>S
  - B. Physical effects and hazards
  - C. Proper use of safety equipment and life support systems.
  - D. Principle and operation of H<sub>2</sub>S detectors, warning system and briefing areas.
  - E. Evacuation procedure, routes and first aid.
  - F. Proper use of 30 minute pressure demand air pack.

#### 2 H<sub>2</sub>S Detection and Alarm Systems:

A. H<sub>2</sub>S detectors and audio alarm system to be located at bell nipple, end of flow line (mud pit) and on derrick floor or doghouse.

#### 3 Windsock and/or wind streamers:

- A. Windsock at mudpit area should be high enough to be visible.
- B. Windsock at briefing area should be high enough to be visible.

#### 4 Condition Flags and Signs:

- A. Warning sign on access road to location.
- B. Flags to be displayed on sign at entrance to location. Green flag indicates normal safe condition. Yellow flag indicates potential pressure and danger. Red flag indicates danger (H₂S present in dangerous concentration). Only emergency personnel admitted to location.

#### 5 Well control equipment:

A. See exhibit "E"

#### 6 Communication:

- A. While working under masks chalkboards will be used for communication.
- B. Hand signals will be used where chalk board is inappropriate.
- C. Two way radio will be used to communicate off location in case of emergency help is required. In most cases cellular telephones will be available at most drilling foreman's trailer or living quarters.

#### 7 <u>Drillstem Testing:</u>

No DSTs or cores are planned at this time.

- 8 Drilling contractor supervisor will be required to be familiar with the effects H₂S has on tubular goods and other mechanical equipment.
- 9 If H<sub>2</sub>S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas seperator will be brought into service along with H<sub>2</sub>S scavengers if necessary.

H₂S Contingency Plan
Coral Sea 7 Federal Com No. 2
Cimarex Energy Co. of Colorado
Unit P, Section 7
T15S R31E; Chaves County, NM

#### **Emergency Procedures**

In the event of a release of gas containing H<sub>2</sub>S, the first responder(s) must:

- ★ Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- ★ Evacuate any public places encompassed by the 100 ppm ROE.
- **★** Be equipped with H<sub>2</sub>S monitors and air packs in order to control the release.
- ★ Use the "buddy system" to ensure no injuries occur during the response.
- **★** Take precautions to avoid personal injury during this operation.
- ★ Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- **★** Have received training in the:
  - ♦ Detection of H<sub>2</sub>S, and
  - ♦ Measures for protection against the gas,
  - Equipment used for protection and emergency response.

#### **Ignition of Gas Source**

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide  $(SO_2)$ . Intentional ignition must be coordinated with the NMOCD and local officials. Additionally, the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas.

#### Characteristics of H<sub>2</sub>S and SO<sub>2</sub>

| Common           | Chemical | Specific    | Threshold |                 | Lethal        |
|------------------|----------|-------------|-----------|-----------------|---------------|
| Name             | Formula  | Gravity     | Limit     | Hazardous Limit | Concentration |
| Hydrogen Sulfide | H₂S      | 1.189 Air=1 | 10 ppm    | 100 ppm/hr      | 600 ppm       |
| Sulfur Dioxide   | SO₂      | 2.21 Air=1  | 2 ppm     | N/A             | 1000 ppm      |

#### **Contacting Authorities**

Cimarex Energy Co. of Colorado's personnel must liaise with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available including directions to site. The following call list of essential and potential responders has been prepared for use during a release. Cimarex Energy Co. of Colorado's response must be in coordination with the State of New Mexico's "Hazardous Materials Emergency Response Plan" (HMER).

#### H<sub>2</sub>S Contingency Plan Emergency Contacts Coral Sea 7 Federal Com No. 2 Cimarex Energy Co. of Colorado

Unit P, Section 7 T15S R31E; Chaves County, NM

#### **Company Office**

Cimarex Energy Co. of Colorado Co. Office and After-Hours Menu 800-969-4789

Halliburton

B.J. Services

| Name   | Title  | Office   |  | Mobile   |
|--|--|--|--|--|
| Doug Park  | Drilling Manager   | 972-443-6463   |  | 972-333-1407   |
| Dee Smith  | Drilling Super   | 972-443-6491   |  | 972-882-1010   |
| Jim Evans  | Drilling Super   | 972-443-6451   |  | 972-465-6564   |
| Dorsey Rogers  | Field Super  | and the second s |  | 575-200-6105   |
| Roy Shirley  | Field Super  |  |  | 432-634-2136   |
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| The state of the s |  | 911  |  |  |
| Ambulance  | - Haller man and a second seco | 575-746-2703   |  |  |
| State Police   |  |  |  |  |
| City Police  |  | 575-746-2703   |  |  |
| Sheriff's Office   |  | 575-746-9888   |  | 0-4M-0-0-0   |
| Fire Department  |  | 575-746-2701   |  |  |
| Local Emergency Planning Committee  New Mexico Oil Conservation Division   |  | 575-746-2122   |  |  |
| New Mexico Oil Conservation Division   | . H. Marce of Lemma of Lemma in security of Lemma by Marcell in  | 575-748-1283<br>   | MIN DY DIONY A                               | . Decider HT MINISTE HE ACCOUNT HE ARROW HE ACCOUNT HE HARRING HE ARROW  |
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| Ambulance  |  | 911  |  |  |
| State Police   |  | 575-885-3137   |  |  |
| City Police  |  | 575-885-2111   |  |  |
| Sheriff's Office   |  | 575-887-7551   |  |  |
| Fire Department  |  | 575-887-3798   |  | Market Market State Company of the C |
| Local Emergency Planning Committee   |  | 575-887-6544   |  |  |
| US Bureau of Land Management   | I di distribi di distribi di passir pi pressi di pessir di distribi  | 575-887-6544<br>***********************************  | ADON N ACON A                                | T ANGOT AT MINIST AT MINIST AT MINIST AT MINIST AT MINIST AT MINIST  |
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| New Mexico Emergency Response Commission (Sa   | inta Fe)   | 505-476-9600   |  |  |
| New Mexico Emergency Response Commission (Sa   | inta Fe) 24 Hrs  | 505-827-9126   |  |  |
| New Mexico State Emergency Operations Center   | بسنند بد جسند در جنسد در جنسد بر سنندر بر سنندر در جنبدر بر ر  | 505-476-9635   |  |  |
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| National Emergency Response Center (Washington   | n, D.C.)   | 800-424-8802   | AND 2 AND 1                                  | r allecer de secone se anno se anno de parte de parte de secone se anno  |
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| Flight for Life - 4000 24th St.; Lubbock, TX   |  | 806-743-9911   |  |  |
| Aerocare - R3, Box 49F; Lubbock, TX  |  | 806-747-8923   |  |  |
| Med Flight Air Amb - 2301 Yale Blvd S.E., #D3; Alb   | uguergue. NM   | 505-842-4433   |  | Name and the state of the state |
| SB Air Med Service - 2505 Clark Carr Loop S.E.; Alb  |  | 505-842-4949   |  |  |
|  | " I Main' II Main' II Main' II Anno II Main' II Anno   |  |  |  |
| Other S. Coots IMC   |  | 900 350 0099   |  | 201 021 0004   |
| Boots & Coots IWC  |  | 800-256-9688   | or   | 281-931-8884   |
|  |  |  |  | 400 000 000 0  |
| Cudd Pressure Control  |  | 432-699-0139   | or   | 432-563-3356   |

575-746-2757

575-746-3569

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### SECTION 7, TOWNSHIP 15 SOUTH, RANGE 31 EAST, N.M.P.M., NEW MEXICO. CHAVES COUNTY. 4448.4 4444.0 150' NORTH OFF SET 4447.2 CIMAREX ENERGY CO. OF COLORADO CORAL SEA "7" FEDERAL COM #2 ELEV. - 4447' 150' EAST OFF SET 4445.3' 150' WEST OFF SET [] 0 4448.2 Lat.-N 33'01'26.58" Long-W 103'51'14.07" (NAD-83) PROPOSED LEASE ROAD 724.0" 150' SOUTH OFF SET 4447.4 600' 4448.7 4445.7' 200 0 200 400 FEET Directions to Location: SCALE: 1" = 200FROM MILE MARKER 30 OF HWY 31, GO NORTHEAST 0.5 MILES ON LEASE ROAD TO PROPOSED LEASE CIMAREX ENERGY CO. OF COLORADO ROAD. REF: CORAL SEA "7" FEDERAL COM #2 / WELL PAD TOPO THE CORAL SEA "7" FEDERAL COM #2 LOCATED 330'

BASIN SURVEYS P.O. BOX 1786 -HOBBS, NEW MEXICO

W.O. Number: 19434 | Drawn By: **J. SMALL**Date: 04-11-2008 | Disk: JMS 19434W

F: CORAL SEA "7" FEDERAL COM #2 / WELL PAD TOPO

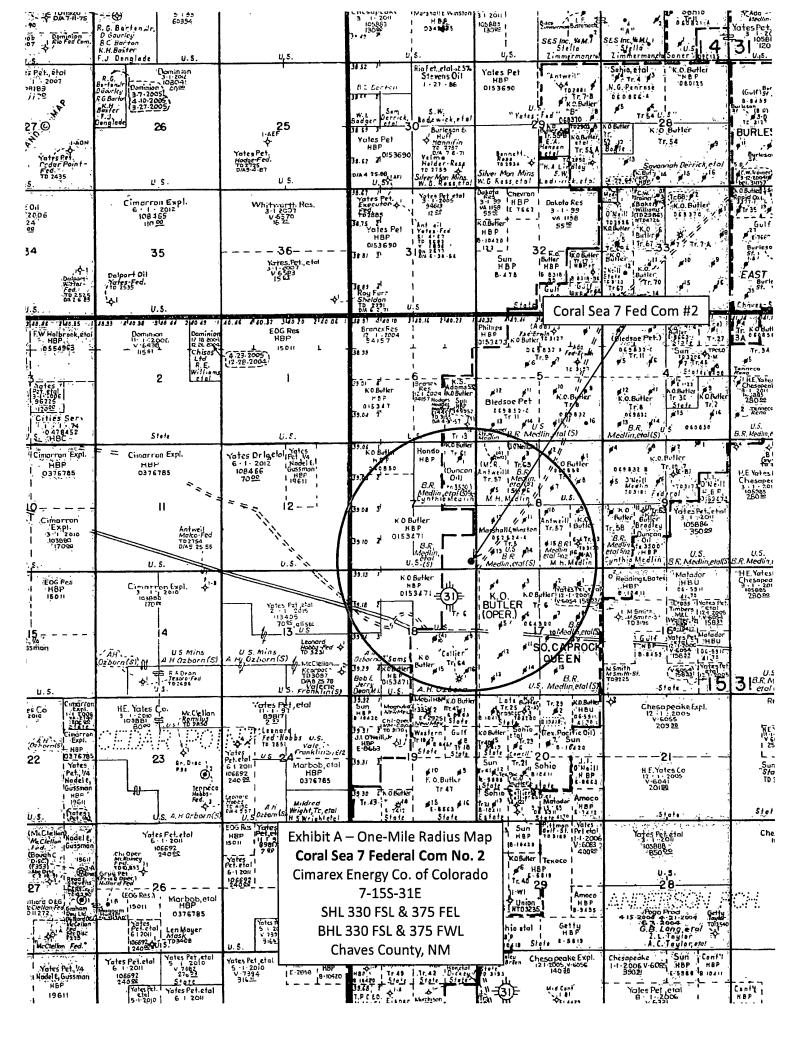
THE CORAL SEA "7" FEDERAL COM #2 LOCATED 330'

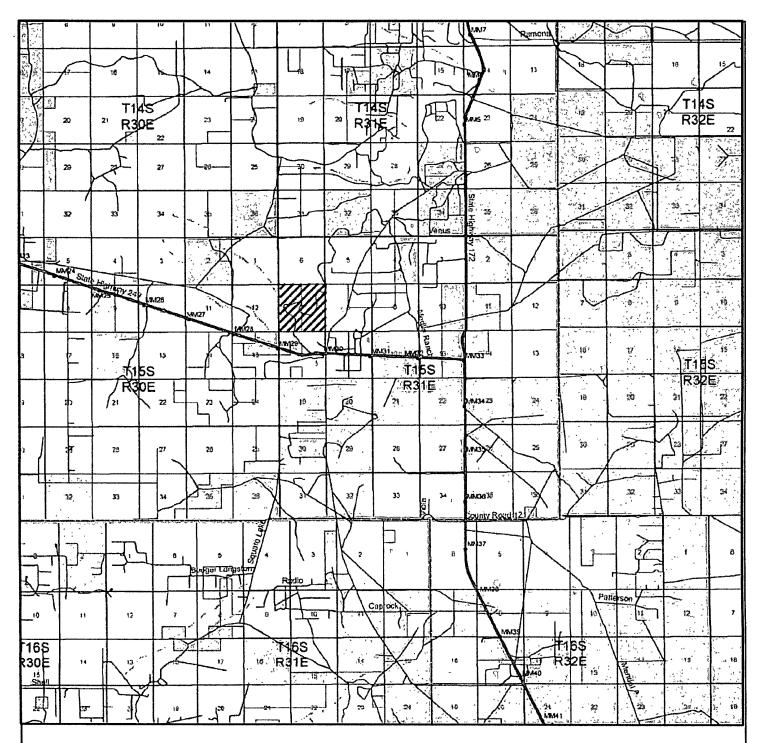
FROM THE SOUTH LINE AND 375' FROM THE EAST LINE OF

SECTION 7, TOWNSHIP 15 SOUTH, RANGE 31 EAST,

N.M.P.M., CHAVES COUNTY, NEW MEXICO.

Survey Date: 04-10-2008 | Sheet 1 of 1 Sheets





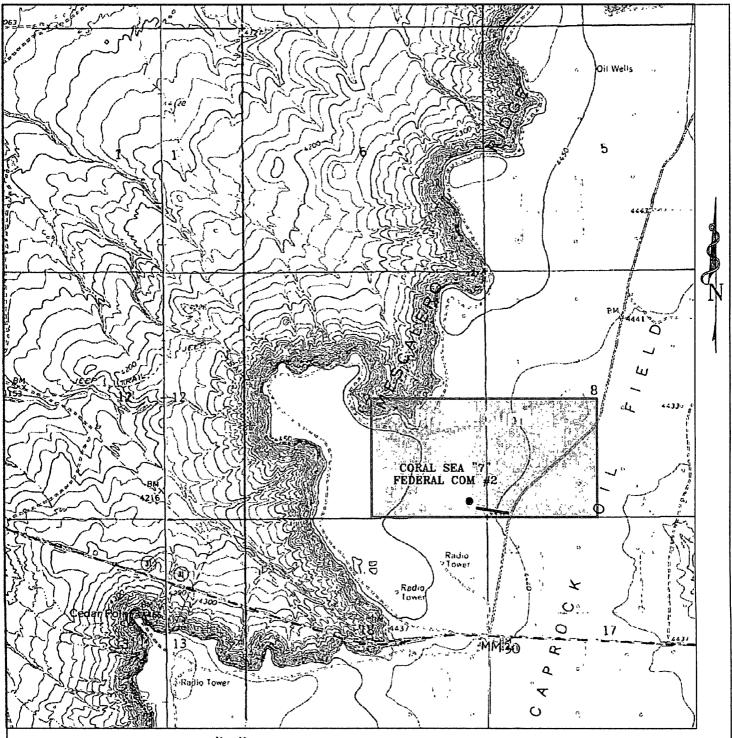
CORAL SEA "7" FEDERAL COM #2 Located 330' FSL and 375' FEL Section 7, Township 15 South, Range 31 East, N.M.P.M., Chaves County, New Mexico.



P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (505) 393-7316 — Office (505) 392-3074 — Fax basinsurveys.com

| W.O. Number: JMS 19434TR |
|--------------------------|
| Survey Date: 04-10-2008  |
| Scale: 1" = 2 MILES      |
| Date: 04-11-2008         |

CIMAREX ENERGY CO. OF COLORADO



CORAL SEA "7" FEDERAL COM #2 Located 330' FSL and 375' FEL Section 7, Township 15 South, Range 31 East, N.M.P.M., Chaves County, New Mexico.



P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico B8241 (505) 393-7316 - Office (505) 392-3074 - Fax basinsurveys.com

| W.O. Number JMS 19434T  |
|-------------------------|
| Survey Date. 04-10-2008 |
| Scale: 1" = 2000'       |
| Date 04-11-2008         |

CIMAREX ENERGY CO. OF COLORADO

## **Patriot Rig 4**

### Cimarex Energy Co. of Colorado

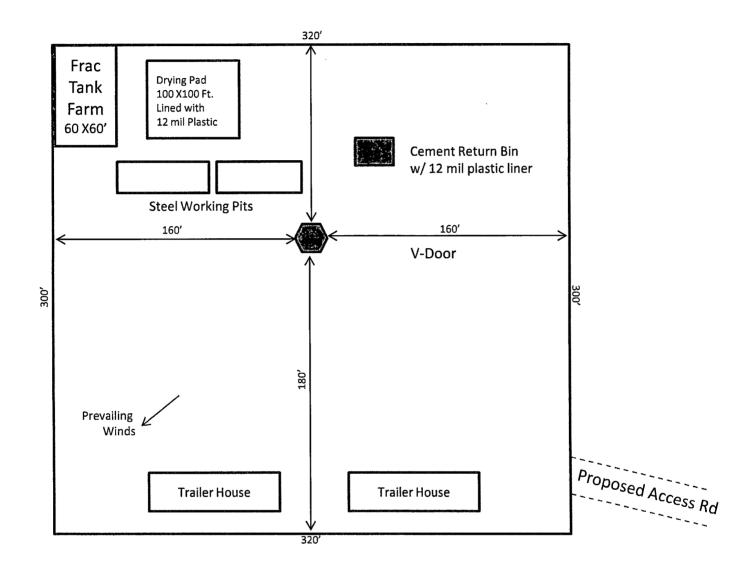


Exhibit D - Rig Layout

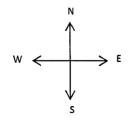
Coral Sea 7 Federal Com No. 2

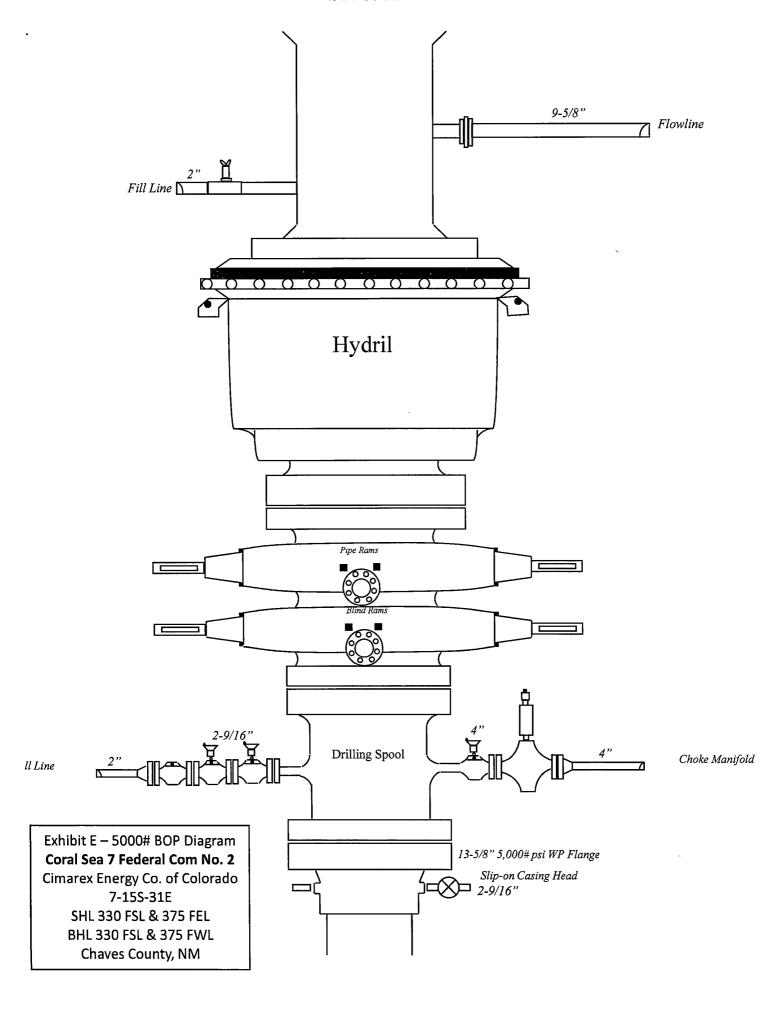
Cimarex Energy Co. of Colorado
7-15S-31E

SHL 330 FSL & 375 FEL

BHL 330 FSL & 375 FWL

Chaves County, NM





### DRILLING OPERATIONS CHOKE MANIFOLD 5M SERVICE

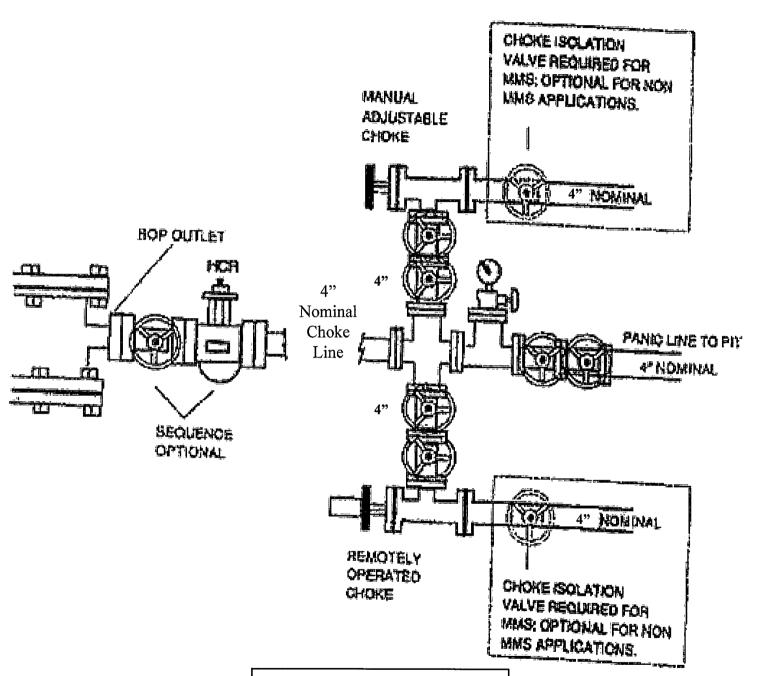


Exhibit E-1 – Choke Manifold Diagram

Coral Sea 7 Federal Com No. 2

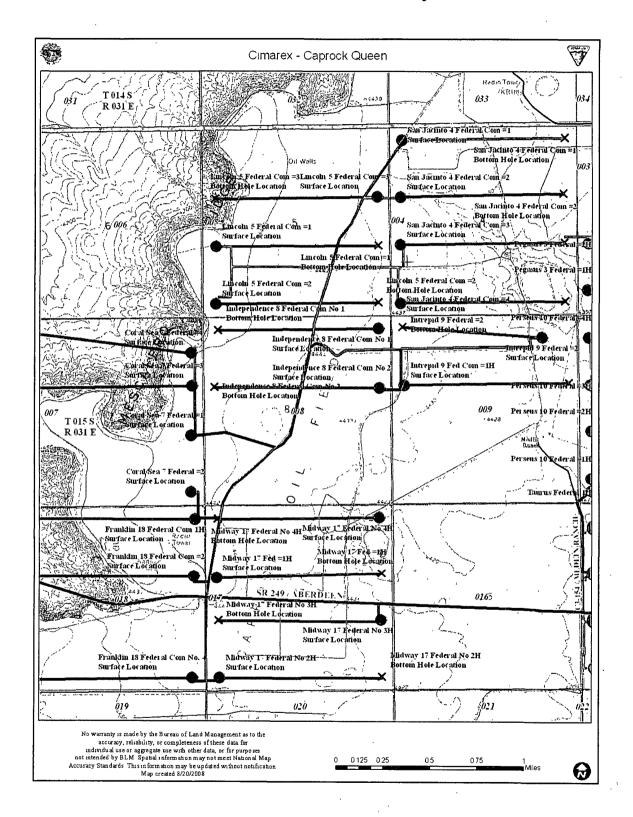
Cimarex Energy Co. of Colorado
7-15S-31E

SHL 330 FSL & 375 FEL

BHL 330 FSL & 375 FWL

Chaves County, NM

#### Exhibit A – General Location Map



## EXHIBIT B PECOS DISTRICT - RFO CONDITIONS OF APPROVAL

#### **December 4, 2008**

Project: Coral Sea 7 Federal #2
EA Log Number: NM-510-2008-140

Surface Hole Location: 330' FSL & 375' FEL, Sec. 7 T15S-R31E; LC-064900 Bottom Hole Location: 330' FSL & 375' FWL, Sec. 7 T15S-R31E; NM-0153471

Chaves County, New Mexico NMPM Archaeological Report: 09-R-023-A Applicant: Cimarex Energy Company of Colorado Roswell Field Office: (575) 627-0272

#### **GENERAL PROVISIONS**

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

#### I. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD (Filing of a Sundry Notice is required for this 60 day extension).

#### II. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

#### III. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations (access road and/or well pad). Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

#### IV. CONSTRUCTION

#### A. NOTIFICATION:

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Roswell Field Office at (505) 627-0247 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved Application for Permit to Drill and Conditions of Approval on the well site and they shall be made available upon request by the Authorized Officer.

#### B. TOPSOIL:

The topsoil will be stripped to approximately 6 inches in depth within the area designated for construction of the well pad. The operator shall stockpile the stripped topsoil on the side of the well pad. The topsoil will be used for interim and final reclamation of the surface disturbance created by the construction of the well pad.

#### C. CLOSED SYSTEMS OR STEEL TANKS: No reserve pit will be used.

Steel tanks are required for drilling operations: No Pits Allowed.

The operator shall properly dispose of drilling contents at an authorized disposal site.

#### D. FEDERAL MINERAL MATERIALS PIT:

If the operator elects to surface the access road and/or well pad using federal mineral, payment shall be made to the BLM. Call the Roswell Field Office at (505) 627-0236.

#### E. WELL PAD SURFACING:

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation.

The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational need.

#### F. ON LEASE ACCESS ROADS:

#### **Road Egress and Ingress**

The access road shall be constructed to access the corner of the well pad.

#### Road Width

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed thirty (30) feet.

#### Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

#### Crowning

Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

#### **Turnouts**

Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall be constructed on all blind curves. Turnouts shall conform to the following diagram:

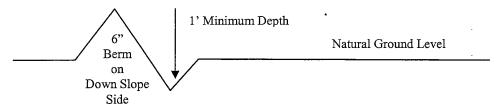
## 

#### Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

#### **Cross Section Of Typical Lead-off Ditch**



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

#### Formula For Spacing Interval Of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

400 foot road with 4% road slope:  $\frac{400'}{4\%} + 100' = 200'$  lead-off ditch interval

#### Cattleguards

An appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at fence crossing(s).

Any existing cattleguard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguard(s) that are in place and are utilized during lease operations.

A gate shall be constructed and fastened securely to H-braces.

#### Fence Requirement

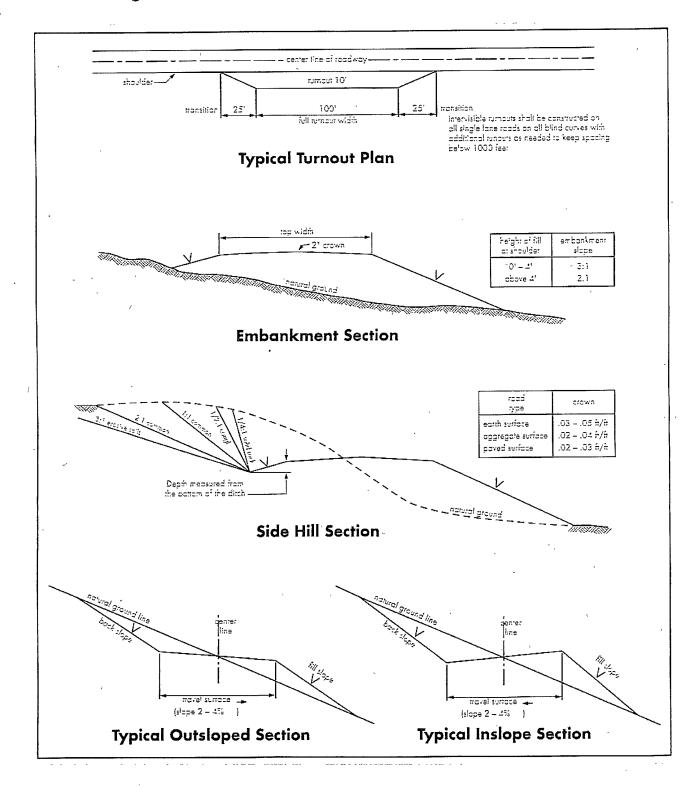
Where entry is required across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting.

The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fence(s).

#### **Public Access**

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

 $Figure\ 1-Cross\ Sections\ and\ Plans\ For\ Typical\ Road\ Sections$ 



#### V. DRILLING

#### DRILLING OPERATIONS REQUIREMENTS

- 1 Chaves and Roosevelt Counties

  Call the Roswell Field Office, 2909 West Second St., Roswell, NM 88201, 24 hours
  at (575) 627-0205.
- 2. The BLM is to be notified a minimum of 24 hours in advance for a representative to witness:
  - a. Spudding well
  - b. Setting and/or Cementing of all casing strings

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

**BOPE Tests** 

- 3. 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.
- 4. Include the API No. assigned to well by NMOCD on the subsequent report of setting the first casing string.
- 5. The operator will be required to have a geolograph or some other device to accurately measure the drilling rate in order to set the base of the usable water protection casing shoe opposite competent rock Onshore Order No. 2. III. B. The record of the drilling rate along with the gamma ray-neutron well log run to surface will be submitted to this office as well as all other logs run on the on the borehole CFR 3162.4-1(a) and (b).
- 6. Air air-mist or fresh water and non toxic drilling mud shall be used to drill to the base of the usable water protection casing string. Any polymers used will be water based and non-toxic.
- 7. A Communitization Agreement covering the acreage dedicated to this well must be filed for approval with the BLM. The effective date of the agreement shall be prior to any sales.

#### B. CASING:

1. 1. The 13-3/8 inch surface casing shall be set at approximately 340 feet if the bedrock is competent. If not the operator will be required to set surface casing in the next thick competent bedrock (i.e. 15 to 25 ft or greater) encountered and circulate cement to the surface.

- a. If cement does not circulate to the surface, the Roswell Field Office shall be notified and a temperature survey utilizing an electronic type temperature survey with a surface log readout will be used or a cement bond log shall be run to verify the top of the cement.
- b. Wait on cement (WOC) time for a primary cement job will be a minimum 18 hours for a water basin or 500 pounds compression strength, whichever is greater. (This is to include the lead cement).
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compression strength, whichever is greater.
- d. If cement falls back, remedial action will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is sufficient to circulate to the surface. If cement does not circulate see B.1.a-d above.
- 3. The minimum required fill of cement behind the 7 inch production casing is **sufficient to tie** back 500 feet above the uppermost perforation in the pay zone. If cement does not circulate, a temperature survey utilizing an electronic type temperature survey with a surface log readout will be used or a cement bond log shall be run to verify the top of the cement.
- 4. There is no required fill of cement behind the 4-1/2 inch production casing since a Peak Systems Iso-Pak liner will be used for lateral and will not require cementing.
- 5. 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. Before drilling below the 13-3/8 inch surface casing shoe, the blowout preventer assembly shall consist of a minimum of One Annular Preventer or Two Ram-Type Preventers and a Kelly Cock/Stabbing Valve. Before drilling below the 9-5/8 inch intermediate casing shoe, the blowout preventer assembly shall consist of a minimum of One Annular Preventer, Two Ram-Type Preventers, and a Kelly Cock/Stabbing Valve.
- 2. Before drilling below the 13-3/8 inch surface casing shoe, minimum working pressure of the blowout preventer and related equipment (BOPE) shall be 2000 psi. Before drilling below the 9-5/8 inch intermediate casing shoe, minimum working pressure of the blowout preventer and related equipment (BOPE) shall be 3000 psi.
- 3. The BOPE shall be installed before drilling below the 13-3/8 inch surface casing and the 9-5/8 inch intermediate casing and shall be tested as described in Onshore Order No. 2. Any equipment failing to test satisfactorily shall be repaired or replaced.

- a. The BLM Roswell Field office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
- b. The tests shall be done by an independent service company.
- c. 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.
- d. 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 BLM Roswell Field Office at 2909 West Second Street, Roswell, New Mexico 88201.
- e. Testing fluid must be water or an appropriate clear liquid suitable for sub-freezing temperatures. Use of drilling mud for testing is not permitted since it can mask small leaks.
- f. Testing must be done in a safe workman like manner. Hard line connections shall be required.
- g. The requested variance to test the BOPE prior to drilling below the 13-3/8 inch surface casing to the reduced pressure of 1000 psi using the rig pumps is approved.

#### VI. PRODUCTION

#### A. WELL STRUCTURES & FACILITIES

#### **Placement of Production Facilities**

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

#### **Containment Structures**

The containment structure shall be constructed to hold the capacity of the entire contents of the largest tank, plus 24 hour production, unless more stringent protective requirements are deemed necessary by the Authorized Officer.

#### **Painting Requirement**

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color, <u>Juniper Green</u> (Standard Environmental Color Chart June 2008).

#### **VRM Facility Requirement**

Low-profile tanks not greater than eight-feet-high shall be used.

#### VII. INTERIM RECLAMATION

If the well is a producer, interim reclamation shall be conducted on the well site in accordance with the orders of the Authorized Officer. The operator shall submit a Sundry Notices and Reports on Wells (Notice of Intent), Form 3160-5, prior to conducting interim reclamation.

During the life of the development, all disturbed areas not needed for active support of production operations should undergo "interim" reclamation in order to minimize the environmental impacts of development on other resources and uses.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche may be used in road repairs, fire walls or for building other roads and locations. In addition, in order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

The following soil or soil associations may represent these ecological sites: Alama silt loam, dry, 0-3% Slope, Atoka, Bigetty-Pecos, Harkey fine sandy loam, Holloman, Holloman-Gypsum Land, Hollomex loam, 1-9% slope, dry, Largo loam, Milner loam, 0-2% slope, dry, Reagan loam, Reakor, Reakor-Bigetty, Reakor-Tencee, Reeves loam, 0-2% slope, dry, Russler, Shanta, Upton-Reakor.

| Loamy, SD-3 Ecological Site; Loamy CP-2; Gyp Upland CP-2 (for Loamy HP-3) |                          |                    |  |  |  |  |
|---|--------------------------|--------------------|--|--|--|--|
| Common Name   |                          | Pounds of Pure     |  |  |  |  |
| and Preferred Variety   | Scientific Name          | Live Seed Per Acre |  |  |  |  |
| Blue grama,   | (Bouteloua gracilis)     | 4.00 LBS.          |  |  |  |  |
| Sideoats grama,   | (Bouteloua curtipendula) | 1.0 LB.            |  |  |  |  |
| Sand dropseed   | (Sporobolus cryptandrus) | 0.5 LB.            |  |  |  |  |
| Vine mesquite   | (Panicum obtusum)        | 1.0 LB.            |  |  |  |  |
| Plains bristlegrass   | (Setaria macrostachya)   | 1.0 LB.            |  |  |  |  |
| Indian blanketflower  | (Gaillardia aristata)    | 0.5 LB.            |  |  |  |  |
| Desert or Scarlet   | (Sphaeralcea ambigua)    | 1.0 LB.            |  |  |  |  |
| Globemallow or  | (S. coccinea)            |                    |  |  |  |  |
| Annual sunflower  | (Helianthus annuus)      | 0.75 LB.           |  |  |  |  |
| TOTAL POUNDS PURE LIVE SEED (pls) PER ACRE                                |                          | 9.75 LBS.          |  |  |  |  |

Certified Weed Free Seed. If one species is not available, increase ALL others proportionately. Use No Less than 4 species, including one forb. No less than 9.75 pounds lbs per acre shall be applied.

#### VIII. FINAL ABANDONMENT & REHABILITATION REQUIREMENTS

- a. Upon abandonment of the well and/or when the access road is no longer in service, a Notice of Intent for Final Abandonment with the proposed surface restoration procedure must be submitted for approval.
- b. On private surface/federal mineral estate land the reclamation procedures on the road and well pad shall be accomplished in accordance with the Private Surface Land Owner agreements and a copy of the release is to be submitted upon abandonment.
- c. Upon abandonment of the well, all casing shall be cut-off at the base of the cellar or 3-feet below final restored ground level (whichever is deeper). A 4-inch pipe, 10 feet in length, shall be installed 4 feet above ground and embedded in cement. The following information shall be permanently inscribed on the dry hole marker: Well name and number, the name of the operator, the lease serial number, the surveyed location (the quarter-quarter section, section, township and range or other authorized survey designation acceptable to the authorized officer; such as metes and bounds).
- d. Surface Reclamation must be completed within 6 months of well plugging. If the operator proposes to modify the plans for surface reclamation approved on the APD, the operator must attach these modifications to the Subsequent Report of Plug and Abandon using Sundry Notices and Reports on Wells, Form 3160-5.

New Mexico OH Conservation Division, District 1

1625 N. French Drive

RECEIVED orm 3160-5 lovember 1994)

UNITED STATES OF NM 88240 DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

fee-owned)

FORM APPROVED OMB No. 1004-0135

DEC 0 8 2008

ų

SUNDRY NOTICES AND REPORTS ON WELLS HOBBSOGDuse this form for proposals to drill or to re-enter an

Expires July 31, 1996 Lease Serial No SHL LC-064900 (surface BHL NM-0153471

If Indian, Allottee or Tribe Name

| abandoned well. Use form 3160-3 (APD) for such proposals.  |  |   | 7. If Unit or  | CA/Agreement, N   | Jame and/                            | or No        |         |  |
|--|--|---|--|---|--------------------------------------|--------------|---------|--|
| SUBMIT IN TRI  | PLICATE - Other instructio   | ns on reverse side  |  | 7. 11 01111 01  | o, v, igicomoni, i                   | idilio dilar | 5, 110, |  |
| Tune of Mail   |  |   |  | Pending   |                                      |              |         |  |
| Type of Well  X Oil Well  Gas Well   | Other  |   |  | 8. Well Name and No.  |                                      |              |         |  |
| Name of Operator   |  |   |  | Coral Sea 7 Federal Com No. 2                                       |                                      |              |         |  |
| Cimarex Energy Co. of Colorado   | )  |   |  | 9. API Well   | No.                                  |              |         |  |
| a Address  | ***  | 3b. Phone No. (include area code)   |  | 30-005-   |                                      |              |         |  |
| PO Box 140907; Irving, TX 7501   | 4-0907   | 972-401-3111  |  | 10. Field and Pool, or Exploratory Area                             |                                      |              |         |  |
| Location of Well (Footage, Sec., T., R., M.,   | or Survey Description)   | -   |  | Abo Wildca  | t                                    |              |         |  |
| SHL 330 FSL & 375 FEL  | 7-15S-31E  |   |  |   | 11. County or Parish, State          |              |         |  |
| BHL 330 FSL & 375 FWL  |  |   |  | Chaves County, NM   |                                      |              |         |  |
| 12. CHECK APP  | ROPRIATE BOX(ES) TO  | O INDICATE NAT  | URE OF NOTIC   | CE, REPORT, OR OTHER DATA   |                                      |              |         |  |
| TYPE OF SUBMISSION   |  | Ţ   | YPE OF ACTION  |   |                                      |              |         |  |
| [V]  |  | - Deener  | Production (Start/   | Booumo) [   | Water Shut-Of                        | 4            |         |  |
| X Notice of Intent   | Acidize  | Deepen  | H `  |   | =                                    | 1            |         |  |
|  | Alter Casing   | Fracture Treat  | Reclamation  |   | Well Integrity                       | D:-          | ,       |  |
| Subsequent Report  | Casing Repair  | New Construction  | Recomplete   | <u> </u>  | X Other Char                         |              |         |  |
|  | X Change Plans   | Plug and Abandon  | Temporarily Aban   | _   | witch to close                       | •            |         |  |
| Final Abandonment Notice   | Convert to Injection   | Plug Back   | Water Disposal   | <u>s</u>  | ystem w/ hau                         | الـoff bi    | ns      |  |
| If the proposal is to deepen directionally or Attach the bond under which the work will following completion of the involved opera testing has been completed. Final Aband determined that the site is ready for final ir Cimarex has chosen to drill this was Attached are the relevant revised | pe performed or provide the Bond N<br>tions. If the operation results in a m<br>comment Notices shall be filed only at<br>aspection.)<br>ell with Patriot Rig 4. As a re | <ul> <li>o. on file with BLM/BIA. R ultiple completion or reconfer all requirements, includes sult, aspects of our set</li> </ul> | equired subsequent rep<br>mpletion in a new interva<br>ding reclamation, have b<br>urface use plan hav | orts shall be filed w<br>al, a Form 3160-4 si<br>been completed, an | vithin 30 days<br>hall be filed once |              |         |  |
| I hereby certify that the foregoing is true an   | d correct  |   |  | *******   |                                      |              | ····    |  |
| Name (Printed/Typed)   |  | Title   |  |   |                                      |              |         |  |
| Natalie Krueger  |  | Regulatory A  | Analyst  |   |                                      |              |         |  |
| Signature  |  | Date  |  |   |                                      |              |         |  |
| Vadali Verus   | 74   | December 1  | , 2008   |   |                                      |              |         |  |
|  | THIS SPACE FOR   | FEDERAL OR STAT   |  |   |                                      |              |         |  |
| pproved by /s/ Jerry   | Dutchover  | Acting L  | प्रमाधिकां Field<br>ands And Mir   |   | Date 6 4                             | DEC          | 2008    |  |
| onditions of Approval, if any, are attached.<br>ertify that the applicant holds legal or equita<br>hich would entitle the applicant to conduct   | ble title to those rights in the subj  |   | Office   | FIELD OFFICI  | 3                                    |              |         |  |
| tle 18 U.S.C. Section 1001, makes it a crin  | ne for any person knowingly and w  | illfully to make to any de  | partment or agency of  | the United States   | any false, fictitio                  | us or        |         |  |

audulent statements or representations as to any matter within its jurisdiction.

## Surface Use Plan Revisions Coral Sea 7 Federal Com No. 2

7-15S-31E

SHL 330 FSL & 375 FEL

BHL 330 FSL & 375 FWL

Chaves County, NM

#### Methods of Handling Waste Material

- A. Drill cuttings will be seperated by a series of solids removal equipment and stored in steel containment pits and then hauled to a state-approved disposal facility.
- B. All trash, junk and other waste material will be contained in trash cages or bins to prevent scattering. When the job is completed all contents will be removed and disposed of in an approved sanitary land fill.
- C. Salts remaining after completion of well will be picked up by supplier including broken sacks.
- D. Sewage from living quarters will drain into holding tanks and be cleaned out periodically. A Porta-John will be provided for the rig crews. This equipment will be properly maintained during the drilling operations and removed upon completion of the well.
- E. Drilling fluids will be contained in steel pits in a closed circulating system. Fluids will be cleaned and reused. Water produced during testing will be contained in the steel pits and disposed of at a state approved disposal facility. Any oil or condensate produced will be stored in test tanks until sold and hauled from the site.

#### Well Site Layout

- A. Exhibit "D" shows location and rig layout.
- B. Mud pits in the closed circulating system will be steel pits and the cuttings will be stored in steel containment pits.
- C. Cuttings will be stored in steel pits until they are hauled to a state-approved disposal facility.
- D. If the well is a producer, those areas of the location not essential to production facilities will be reclaimed and seeded per BLM requirements.

#### Plans for Restoration of Surface

Rehabilitation of the location will start in a timely manner after all drilling operations cease. The type of reclamation will depend on whether the well is a producer or a dry hole.

Drainage systems, if any, will be reshaped to the original configuration with provisions made to alleviate erosion. These may need to be modified in certain circumstances to prevent inundation of the location's pad and surface facilities. After the area has been shaped and contoured, topsoil from the stockpile will be placed over the disturbed area to the extent possible. Revegetation procedures will comply with BLM standards.

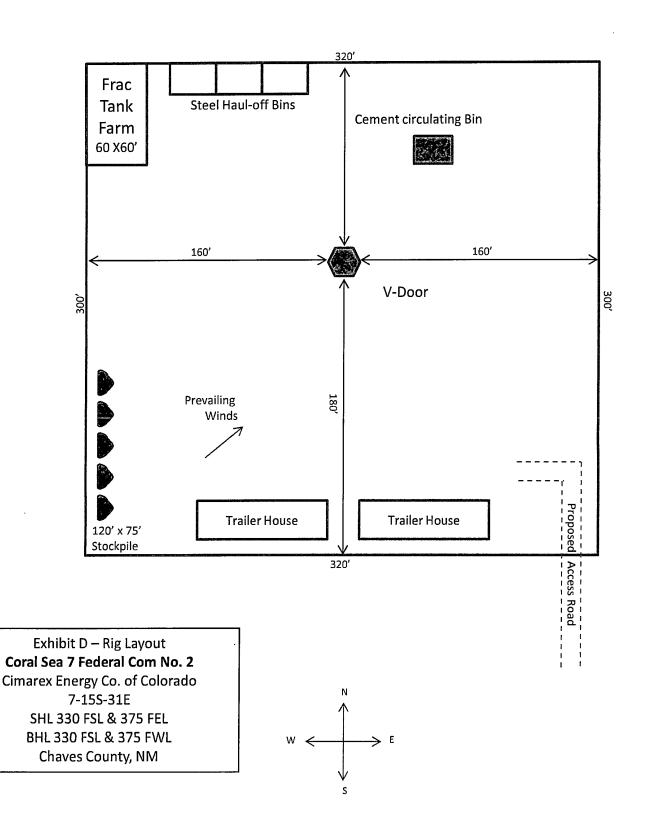
If the well is a dry hole, the pad and road area will be recountoured to match the existing terrain. Topsoil will be spread to the extent possible. Revegetation will comply with BLM standards.

Should the well be a producer, the previously noted procedures will apply to those areas which are not required for production facilities.

Kant Congress on

## **Patriot Rig 4**

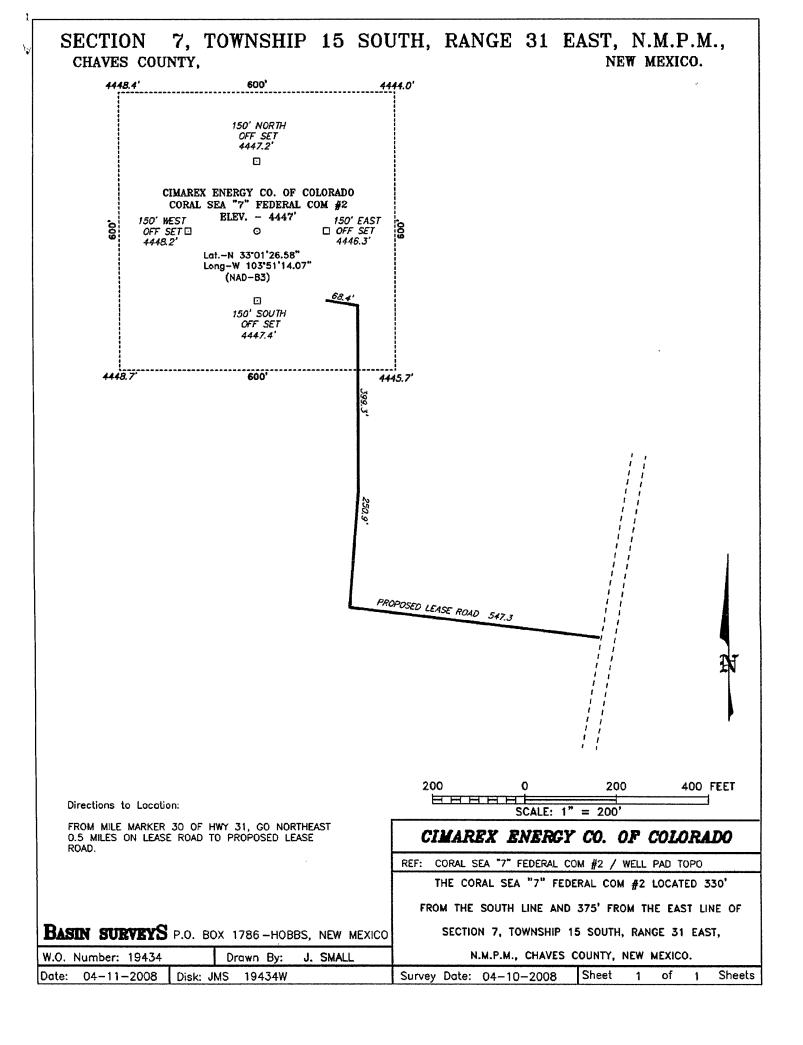
## Cimarex Energy Co. of Colorado

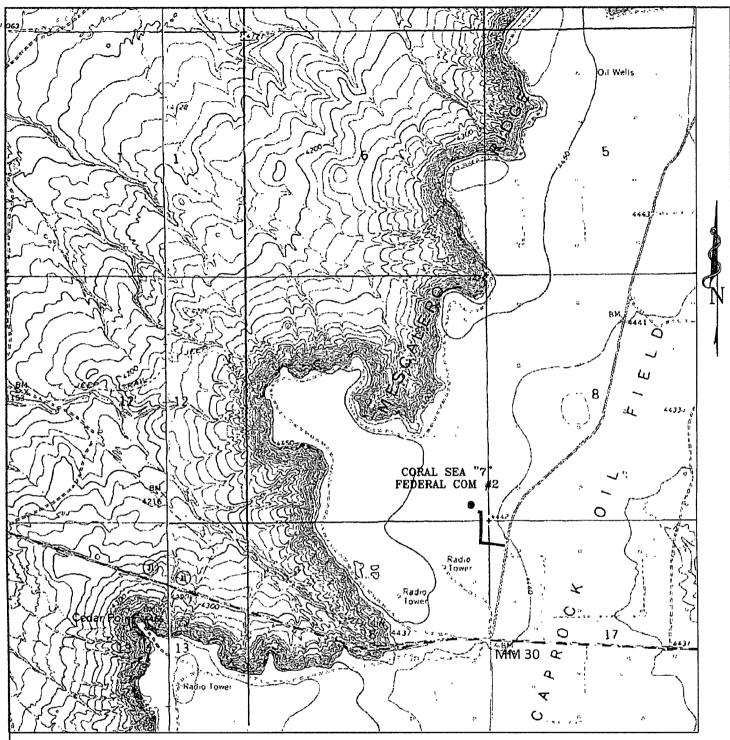


RECEIVED FORM APPROVED UNITED STATES Form 3160-5 DEPARTMENT OF THE INTERIORI CONS. DIVISION BUREAU OF LAND MANAGEMENT OMB No. 1004-0135 (November 1994) DEC 0 8 2008 Expires July 31, 1996 1625 N. French Dr. 5. Lease Serial No. Surface - Private Hobbs. NM 88240 HOBBSOCD SUNDRY NOTICES AND REPORTS ON WELLS SHL LC-064900 BHL NM-0153471 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. If Unit or CA/Agreement, Name and/or No SUBMIT IN TRIPLICATE - Other instructions on reverse side Pending Type of Well Well Name and No. X Oil Well Gas Well Other Coral Sea 7 Federal Com No. 2 Name of Operator API Well No. Cimarex Energy Co. of Colorado 30-005-Phone No. (include area code) 3b. 3a. Address 972-401-3111 Field and Pool, or Exploratory Area PO Box 140907; Irving, TX 75014-0907 Abo Wildcat Location of Well (Footage, Sec., T., R., M., or Survey Description) 11. County or Parish, State 7-15S-31E SHL 330 FSL & 375 FEL Chaves County, NM **BHL 330 FSL & 375 FWL** CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA 12. TYPE OF ACTION TYPE OF SUBMISSION Water Shut-Off X Notice of Intent Production (Start/Resume) Acidize Well Integrity Fracture Treat Reclamation Alter Casing Other Change Road Casing Repair New Construction Recomplete Subsequent Report Temporarily Abandon X Change Plans Plug and Abandon Convert to Injection Plug Back Water Disposal Final Abandonment Notice 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.) Cimarex has changed the access road leading to the Coral Sea 7 Federal Com No. 2 as shown on the attached plats. The access road crosses on-lease federal lands and will therefore not require a ROW.

| litle little |  |
|--------------|--|
| Regulatory   | Analyst  |
| Date         |  |
| October 17,  | , 2008   |
| AL OR STA    | TE OFFICE USE                                  |
| Acting       | Allesistant Field Manager, Date 10 4 DEC 2008  |
|              | ROSWELL FIELD OFFICE                           |
|              | Regulatory Date  October 17  AL OR STA  Acting |

fraudulent statements or representations as to any matter within its jurisdiction.





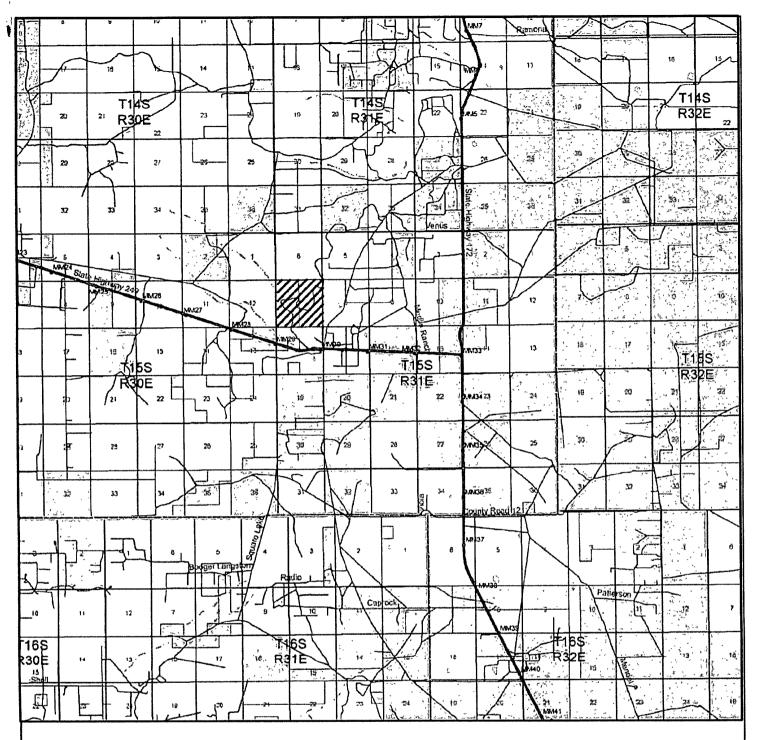
CORAL SEA "7" FEDERAL COM #2 Located 330' FSL and 375' FEL Section 7, Township 15 South, Range 31 East, N.M.P.M., Chaves County, New Mexico.



P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (505) 393-7316 - Office (505) 392-3074 - Fax basinsurveys.com

| W.O. Number: JMS 19434T |
|-------------------------|
| Survey Date: 04–10–2008 |
| Scale: 1" = 2000'       |
| Date. 04-11-2008        |
|                         |

CIMAREX ENERGY CO. OF COLORADO



CORAL SEA "7" FEDERAL COM #2 Located 330' FSL and 375' FEL Section 7, Township 15 South, Range 31 East, N.M.P.M., Chaves County, New Mexico.



P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (505) 393-7316 - Office (505) 392-3074 - Fax basinsurveys.com

| 1 | W.O. Number: JMS 19434TR |    |
|---|--------------------------|----|
|   | Survey Date: 04-10-2008  |    |
|   | Scale: 1" = 2 MILES      | ١, |
| J | Date: 04-11-2008         | ۱  |

CIMAREX ENERGY CO. OF COLORADO