New Mexico Oil Conservation Division, District I 1625 N. French Drive Hobbs, NM 88243

NOV 1 9 2008 Form 3160-3 FORM APPROVED OMB No 1004-0137 Expires March 31, 2007 (April 2004) UNITED STATES 5. Lease Serial No. DEPARTMENT OF THE INTERIOR SHL Fee Surface BHL LC-064900 BUREAU OF LAND MANAGEMENT 6. If Indian, Allotee or Tribe Name APPLICATION FOR PERMIT TO DRILL OR REENTER 7. If Unit or CA Agreement, Name and No. 1a Type of Work: X DRILL REENTER 8. Lease Name and Well No X Oil Well Gas Well Other 1b. Type of Well X Single Zone Multiple Zone Midway 17 Federal N 2 Name of Operator 9. API Well No. 30-005-Cimarex Energy Co. of Colorado 10. Field and Pool, or Explorate 3a. Address PO Box 140907 972-401-3111 Abo: Wildcat Irving, TX 75014 4. Location of Well (Report location clearly and in accordance with any State requirements.*) 11. Sec., T. R. M. or Blk. and Survey or Area 1980 FSL & 375 FEL At Surface 1980 FSL & 330 FWL 17-15S-31E At proposed prod. Zone - Proposed Horizontal Abo Test 13. State 12 County or Parish 14. Distance in miles and direction from nearest town or post office* Chaves NM 16 No of acres in lease 17. Spacing Unit dedicated to this well 15 Distance from proposed* location to nearest property or lease line, ft (Also to nearest drig unit line if 375' 760 N2S2 160 any) 18 Distance from proposed location* Proposed Depth 20. BLM/BIA Bond No on File Pilot Hole 9075' to nearest well, drilling, completed, MD 13358' applied for, on this lease, ft. NM-2575 NA TVD 8750' Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23 Estimated duration 4,422' GR 9/1/2008 35-45 days 24. Attachments **ROSWELL CONTROLLED WATER BASIN** The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form Bond to cover the operations unless covered by an existing bond on file (see Well plat certified by a registered surveyor Item 20 above). A Drilling Plan A Surface Use Plan (if the location is on National Forest System Lands, the Operator Certification Such other site specific information and/or plans as may be required by the SUPO shall be filed with the appropriate Forest Service Office).

- authorized officer.

| 25. Signature | Name (Printed/Typed) | Date |
|---------------|----------------------|----------|
| Leno Faring | Zeno Farris | 07.17.08 |
| Title | | |

Manager Operations Administration

Approved By (Signature)

/s/ Jerry Dutchover

Name (Printed/Typed)

/s/ Jerry Dutchover

Title

Assistant Field Manager, Lands And Minerals

Office ROSWELL FIELD OFFICE APPFIOVED FOR 2 YEARS

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

T DOM'T USE OF Conditions of approval, if any, are attached.

Title 18 U.S.S. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious, or fraudulent statements or representations as to any matter within its jurisdiction.

* (Instructions on page 2)

200A . HIL 2!

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED



DISTRICT I 1625 N. French Dr., Hobbs, NM 88240 DISTRICT II 1301 W. Grand Avenue, Artesia, NK 88210

1000 Rio Brazos Rd., Aztec, NM 87410

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

DISTRICT III

DISTRICT IV

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised October 12, 2005

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

OIL CONSERVATION DIVISION

WELL LOCATION AND ACREAGE DEDICATION PLAT

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

☐ AMENDED REPORT

| API Number | Pool Code | Pool Name | : | |
|---------------------|-----------|-----------------------------------|--------------------|--|
| 30.005-2906 | + - | Abo Wildc | at | |
| Property Code | - | Property Name MIDWAY "17" FEDERAL | | |
| ogrid No. 162683 | • | ator Name CO. OF COLORADO | Elevation 4422' | |

Surface Location

| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|--------|----------|----------------|------------------|---------------|----------------|--------|
| 1 | 17 | 15 S | 31 E | | 1980 | SOUTH | 375 | EAST | CHAVES |
| | | | Bottom | Hole Loc | ation If Diffe | rent From Sur | face | | |

ttom 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 | | |
|--------------|--|----------|-------|---------|---------------|------------------|---------------|----------------|--------|--|--|
| L | 17 | 15 S | 31 E | | 1980 | SOUTH | 330 | WEST | CHAVES | | |
| Dedicated Ad | Dedicated Acres Joint or Infill Consolidation Code Order No. | | | | | | | | | | |
| 160 | | | | | | | | · | | | |

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

| | | | | OPERATOR CERTIFICATION |
|--|---------|---|--|--|
| | | | | I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hale location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. |
| BOTTOM HOLE LOCATION Lat - N33*00'50.66" Long - W103*51'05.80" | | | SURFACE LOCATION Lat - N33*00'50.62" Long - W103*50'11.92" | Zeno Farry 07-17-08 Signature Date |
| NMSPCE- N 732995.422 E 688999.430 (NAD-83) | | : | NMSPCE- N 733011.6 E 693587.2 (NAD-83) | Zeno Farris Printed Name |
| | | | | SURVEYOR CERTIFICATION |
| 330' | LC-0649 | | 4423.3 <u>4419</u> | 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. |
| | | | 4424.4 | Date Survision Mark |
| .1980. | | | 1980.— | Signatur & Serveyor Professiona Syrveyor |
| | | | | Certificate No. Gary L. Jones 7977 BASIN SURVEYS |

Operator - Landowner Agreement

| Company: | Cimarex Energy Co. of Colorado | | | | | | | |
|--|---|-----------------|--|--|--|--|--|--|
| Proposed Well: | Midway 17 Federal No. 3 | | | | | | | |
| Federal Lease Number: | LC-064900 | | | | | | | |
| | | | | | | | | |
| · | | | | | | | | |
| (PO Box 50; Maljamar, NM | Energy Co. of Colorado has an agreement v 88264) the surface owner, concerning en- f drilling operations at the above described w | try and surface | | | | | | |
| After abandonment of the well, all pits will be filled and levelled and all equipment and trash will be removed from the well site. No other requirements were made concerning restoration of the well site. | | | | | | | | |
| | —————————————————————————————————————— | 1 | | | | | | |
| July 15, 2008 | Levo Fa | <u>~</u> | | | | | | |
| Date | Signatur | e | | | | | | |

Zeno Farris: Manager, Operations Administration

Application to Drill

Midway 17 Federal No. 3

Cimarex Energy Co. of Colorado Unit I, Section 17

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

1980 FSL & 375 FEL

BHL

1980 FSL & 330 FWL

Proposed Horizontal Abo Test

Elevation above sea level:

GR 4,422

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 9075'

MD 13358'

TVD 8750'

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

Proposed Mud Circulating System:

| | Depth | | | | 1 | | 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 | | |
| 8660' | to | 13358' | 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 9075' and run and cement 7" casing as shown on next page. Set KO Plug @ 8670.' Mill window from 8655' to 8665' and kick off lateral leg @ 8660.' Drill lateral 6%" hole to 13358' MD & 8750' TVD. Run 4½" 11.6# P-110 BTC (Peak Systems Iso-Pak Liner) from RSB packer @ 8553' to 9053' and LTC from 9053' to TD @ MD 13358' and TVD 8750.' No cement required for Peak Systems Liner. Lateral length 4588' and liner length 4805.'

Application to Drill

Midway 17 Federal No. 3

Cimarex Energy Co. of Colorado Unit I, Section 17

T15S R31E; Chaves County, NM

Casing Program:

| Hole Size | Depth | | h Casing OD | | Weight | Thread | Collar | Grade | |
|-----------|-------|----|-------------|-----|--------|--------|--------|-------|-------|
| 17½" | 0' | to | 340 | New | 13%" | 48# | 8-R | STC | H-40 |
| 12¼" | 0, | to | 3950 | New | 9¾" | 40# | 8-R | LTC | J-55 |
| 8¾" | 0' | to | 9500 | New | 7" | 26# | 8-R | LTC | P-110 |
| 61⁄3" | 8553' | to | 9053' | New | 4½" | 11.6# | 8-R | BTC | P-110 |
| 6%" | 9053' | | 13358' | New | 4½" | 11.6# | 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% CaCl₂ (wt 14.8, yld 1.35)

TOC

Surface

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

Tail: 200 sx Premium Plus + 1% CaCl₂ (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 | 13¾" | casing at 340' | and cementing to | Surface |
|--|------|------------------|------------------|---------|
| Hydrocarbon zones will be protected by setting | 9¾" | casing at 3,950' | and cementing to | Surface |
| and by setting | 7" | casing at 9,500' | and cementing to | 3750' |

Cimarex uses the following minimum safety factors:

| Burst | Collapse | Tension |
|-------|----------|---------|
| 1.125 | 1.125 | 1.80 |

Application to Drill

Midway 17 Federal No. 3

Cimarex Energy Co. of Colorado Unit I, Section 17

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:

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

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

Midway 17 Federal No. 3

Cimarex Energy Co. of Colorado Unit I, Section 17 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 H₂S
 - B. Physical effects and hazards
 - C. Proper use of safety equipment and life support systems.
 - D. Principle and operation of H₂S detectors, warning system and briefing areas.
 - E. Evacuation procedure, routes and first aid.
 - F. Proper use of 30 minute pressure demand air pack.

2 H₂S Detection and Alarm Systems:

A. H₂S 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 Drillstem Testing:

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 H₂S 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 H₂S scavengers if necessary.

H₂S Contingency Plan
Midway 17 Federal No. 3
Cimarex Energy Co. of Colorado
Unit I, Section 17
T15S R31E; Chaves County, NM

Emergency Procedures

In the event of a release of gas containing H₂S, 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 H₂S 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 H₂S, 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 (SO₂). 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 H₂S and SO₂

| <u> </u> | | | | | |
|------------------|-----------------|-------------|-----------|-----------------|---------------|
| 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 | SO ₂ | 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).

H₂S Contingency Plan Emergency Contacts Midway 17 Federal No. 3

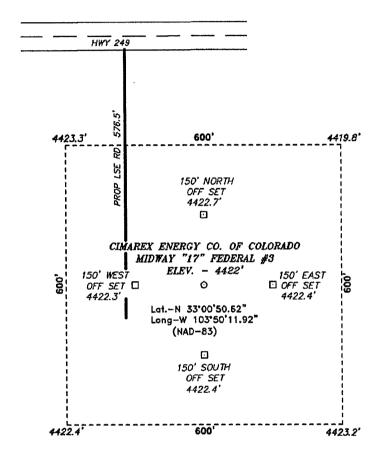
Cimarex Energy Co. of Colorado Unit I, Section 17 T15S R31E; Chaves County, NM

Company Office

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

| _ , _ , _ , _ , _ , _ , _ , _ , _ , _ , | 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 | | | 575-200-6105 | |
| Roy Shirley | Field Super | | | 432-634-2136 | · Assert At Assert At March 15 . |
| ar a mar a mar Artesia | ni ji shan si sama'n sana si kana si masa ji baca s | N 1600 N 1900 N 1600 N 1600 N 1600 N 1600 N 1600 N 1600 N 16 | | indian in person in person in masser in person in section in | , (1000) JI JANUS JI JANUS JI J |
| Ambulance | a sawatan | 911 | | | |
| State Police | | 575-746-2703 | | | |
| City Police . | | 575-746-2703 | | | |
| Sheriff's Office | | 575-746-9888 | | | |
| Fire Department | | 575-746-2701 | | | |
| Local Emergency Planning Committee | | 575-746-2122 | - | | |
| New Mexico Oil Conservation Division | on a accor is socie is secon is socie is socie is socie is | 575-748-1283 | 200 W MADE M | passer of across in across in masser in across in across in | 9 ADDS 16 ADDS 18 ADDS 18 |
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| Ambulance | | 911 | | | |
| State Police | v | 575-885-3137 | | | |
| City Police | | 575-885-2111 | • | | |
| Sheriff's Office | | 575-887-7551 | | | |
| Fire Department | | 575-887-3798 | | | |
| Local Emergency Planning Committee | | 575-887-6544 | | | |
| US Bureau of Land Management | aan 14 maas 14 | 575-887-6544 ** ********************************* | | point in stage in stage to severe in severe in severe in severe . | W MINES M. NAMES IN ABOUT AS |
| Santa Fe | THE R SOUTH IN METER IN METER IN METER IN METER IN METER IN METER IN | IP DECOR IN MINIST IN MINISTER , | MIN 18 AND 18 | Penner In Albano II Rossoy In States In Emiles IN Albano . | W ACCU N ACCU N ACCU N |
| New Mexico Emergency Response Commission (S | anta Fe) | 505-476-9600 | | | |
| New Mexico Emergency Response Commission (S | ianta Fe) 24 Hrs | 505-827-9126 | | | |
| New Mexico State Emergency Operations Center | and it have it have by have it have it have it | 505-476-9635 | | . 2004 H Street H States H States H Street H | or <u>action to the same</u> to the same to |
| [National | 2 Mars 14 Mars 14 Mars 14 Mars 14 Mars 14 Mars 14 Mars | # MANUA M SASSAY M MANUA SA SASSAY AN ARRIVA AN ARRIVA AN ARRIVA M ARRIVA M | | e annue at account of annue at annue at binne at binne | # page # page # 1000 A |
| National Emergency Response Center (Washingto | on, D.C.) | 800-424-8802 | | o passer de disser de descer de descri de disser de disser | 10 Marie 14 Marie 14 Marie 14 |
| Medical | | | Marie II Armir II | . June 11 June 14 June 15 June 15 June 19 June | A 2000 A 2000 A 2000 A |
| 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 | ouquerque, NM | 505-842-4433 | | | |
| SB Air Med Service - 2505 Clark Carr Loop S.E.; Al | buquerque, NM | 505-842-4949 | ANN 11 ANN 1 | y pama ni minin' ni pama ni pama ni mana ni mana | se summe se senser se senser se |
| Other | א אונטע או אונטע אר אונטע אר אונטע אר אונטע אר אונטע אר אונטע | | | | <i>y y y</i> |
| Boots & Coots IWC | | 800-256-9688 | or | 281-931-8884 | |
| Cudd Pressure Control | | 432-699-0139 | or | 432-563-3356 | |
| Halliburton | 1 - 21 - 25 (177) | 575-746-2757 | | , , , , , , , , , , , , , , , , , , , | |
| B.J. Services | | 575-746-3569 | | the state of the s | Page 3 |

SECTION 17, TOWNSHIP 15 SOUTH, RANGE 31 EAST, N.M.P.M.,



Directions to Location:

FROM MILE MARKER 31 OF HWY 249; GO WEST 0.1 MILES TO PROPOSED LEASE ROAD.

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

200 0 200 400 FEET

SCALE: 1" = 200'

CIMAREX ENERGY CO. OF COLORADO

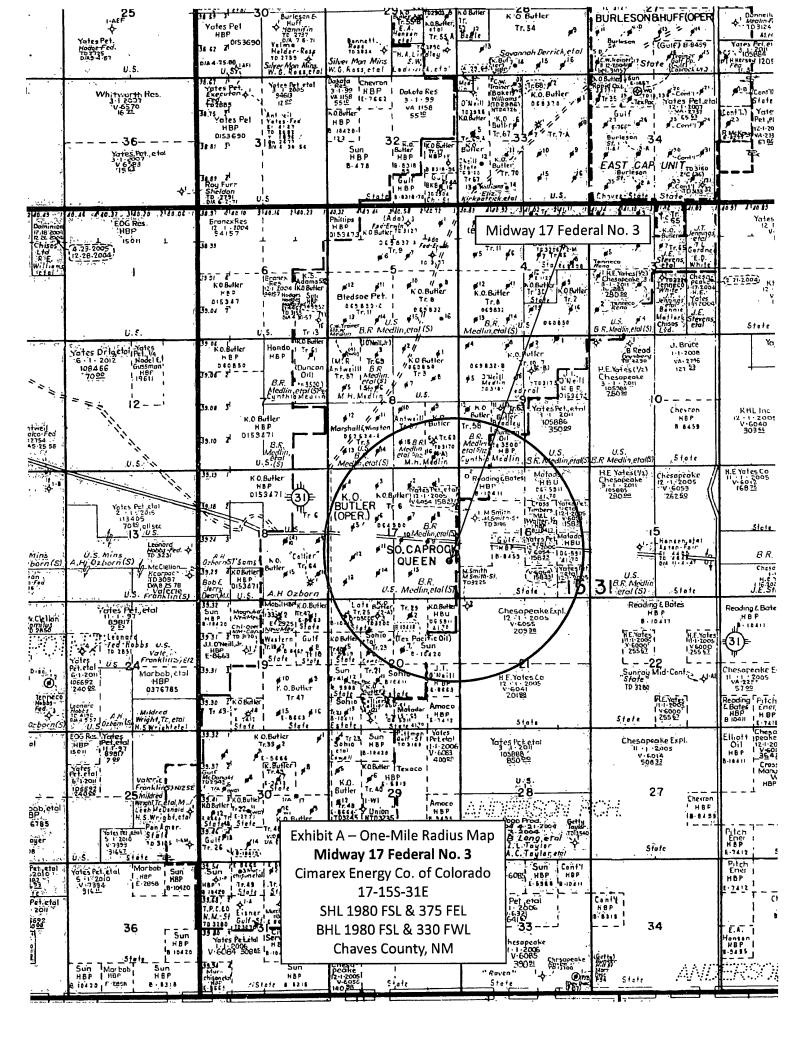
REF: MIDWAY "17" FEDERAL #3 / WELL PAD TOPO

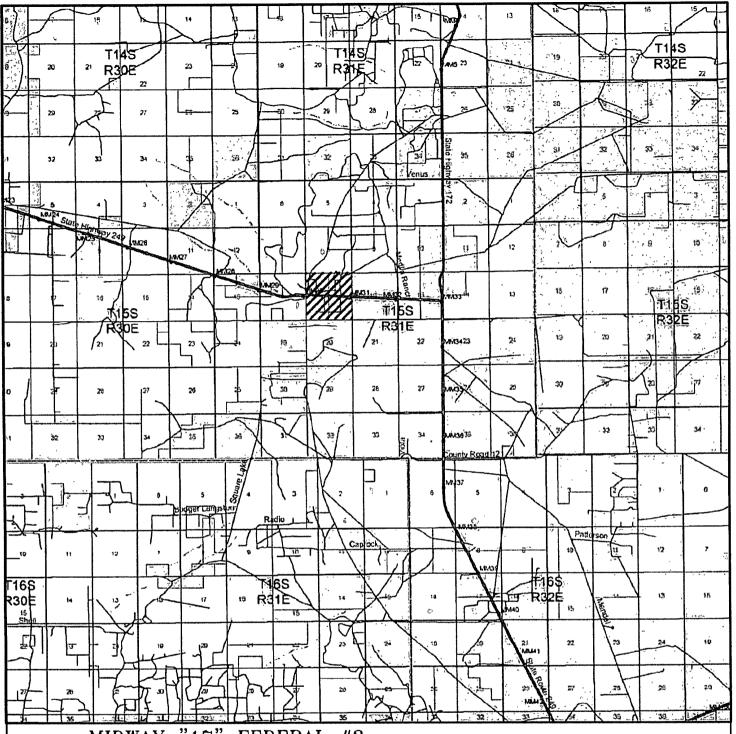
THE MIDWAY "17" FEDERAL #3 LOCATED 1980'

FROM THE SOUTH LINE AND 375' FROM THE EAST LINE OF SECTION 17, TOWNSHIP 15 SOUTH, RANGE 31 EAST,

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

Survey Date: 05-27-2008 Sheet 1 of 1 Sheets





MIDWAY "17" FEDERAL #3 Located 1980' FSL and 375' FEL Section 17, 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 19517

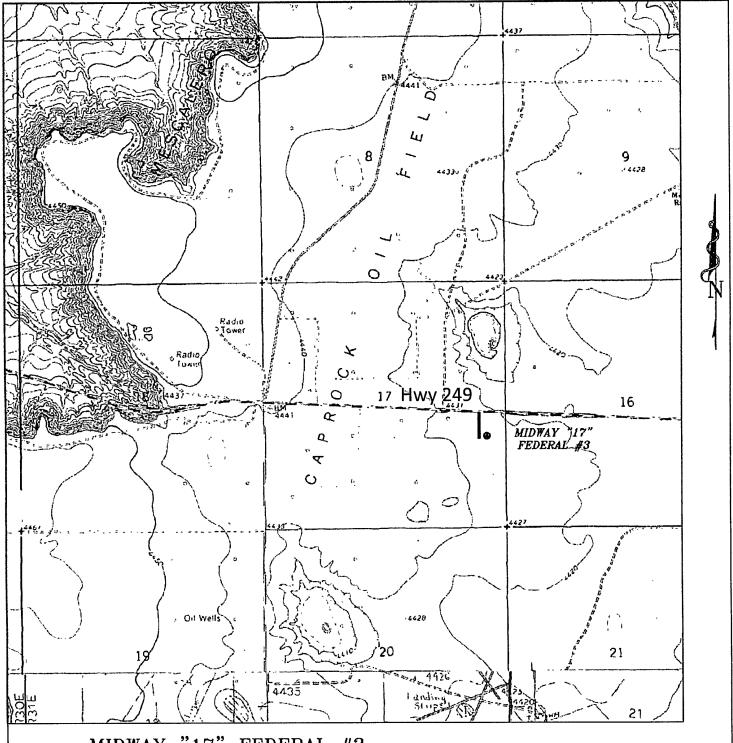
Survey Date: 05-27-2008

Scale: 1" = 2 MILES

Date: 05-28-2008

CIMAREX ENERGY CO. OF COLORADO

Exhibit B



MIDWAY "17" FEDERAL #3 Located 1980' FSL and 375' FEL Section 17, 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 19517 | | | | | | |
|-------------------------|--|--|--|--|--|--|
| Survey Date: 05-27-2008 | | | | | | |
| Scale: 1" = 2000' | | | | | | |
| Date: 05-28-2008 | | | | | | |

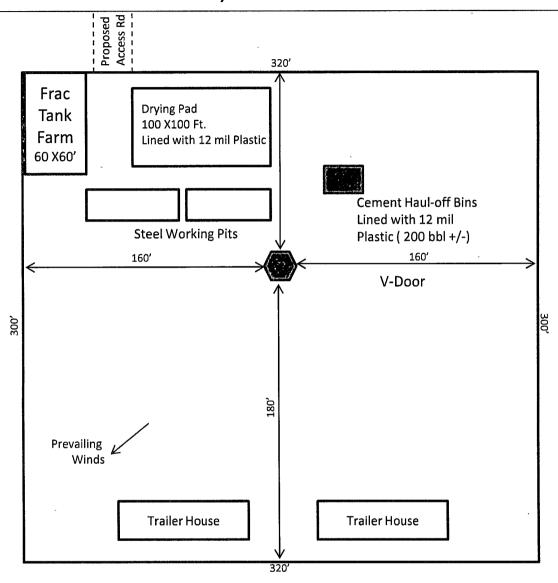
CIMAREX ENERGY CO. OF COLORADO

Exhibit C

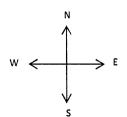
Patriot Rig 4

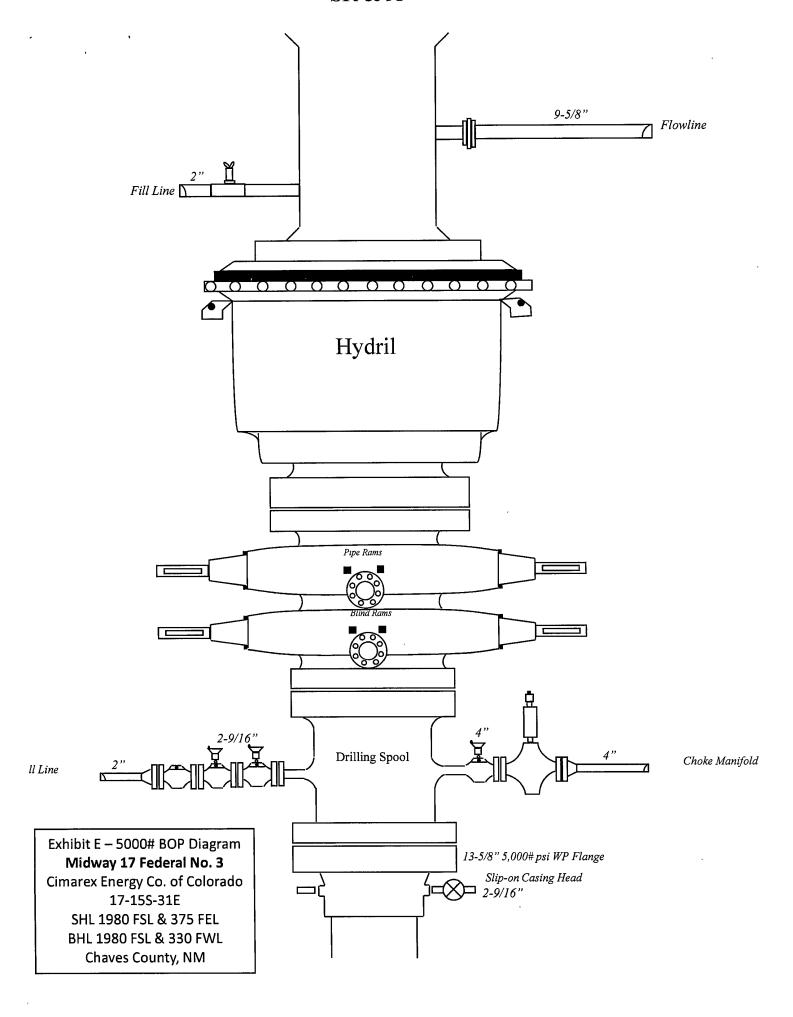
Cimarex Energy Co. of Colorado

Hwy 31



Revised Rig Layout
Midway 17 Federal No. 3
Cimarex Energy Co. of Colorado
17-15S-31E
SHL 1980 FSL & 375 FEL
BHL 1980 FSL & 330 FWL
Chaves County, NM





DRILLING OPERATIONS CHOKE MANIFOLD 5M SERVICE

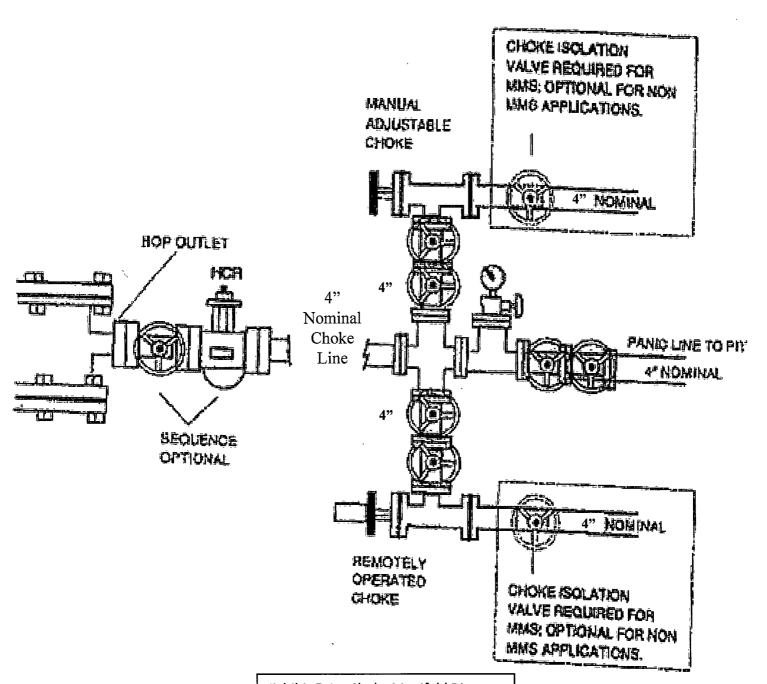


Exhibit E-1 — Choke Manifold Diagram

Midway 17 Federal No. 3

Cimarex Energy Co. of Colorado

17-15S-31E

SHL 1980 FSL & 375 FEL

BHL 1980 FSL & 330 FWL

Chaves County, NM



Planned Wellpath Report Preliminary Page 1 of 4



| REBER | ENCE WELLPATH IDENTIFICATION | | |
|----------|--------------------------------|----------|------------|
| | Cimarex Energy Co. of Colorado | Slot | No. 3H SHL |
| | Chaves County, NM | Well | No. 3H |
| Field | (Midway) Sec 17, T15S, R31E | Wellbore | No. 3H PWB |
| Facility | Midway 17 Fed No. 3H | | |

| REPORT SETUP | INFORMATION: | | |
|---------------------|---|----------------------|-------------------------|
| Projection System | NAD83 / TM New Mexico State Planes, Eastern Zone (3001), US feet | | WellArchitect® 2.0 |
| North Reference | Grid | User | Victor Hernandez |
| Scale | 0.777750 | F | 7/11/2008 at 8:36:51 AM |
| Convergence at slot | 0.27° East | Database/Source file | WA_Midland/No3H_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 | 693587.20 | 733011.60 | 33°00'50.618"N | 103°50'11.921"W | | | | | |
| Facility Reference Pt | | | 693587.20 | 733011.60 | 33°00'50.618"N | 103°50'11.921"W | | | | | |
| Field Reference Pt | | | 689006.90 | 731390.30 | 33°00'34.787"N | 103°51'05.799"W | | | | | |

| WELLPATH DATUM | | | |
|--------------------------|------------------------|---|-------------------|
| Calculation method | Minimum curvature | Rig on No. 3H SHL (RT) to Facility Vertical Datum | 18.00ft |
| Horizontal Reference Pt | Facility Center | Rig on No. 3H SHL (RT) to Mean Sea Level | 4440.00ft |
| Vertical Reference Pt | Rig on No. 3H SHL (RT) | Facility Vertical Datum to Mud Line (Facility) | 0.00ft |
| MD Reference Pt | Rig on No. 3H SHL (RT) | Section Origin | N 0.00, E 0.00 ft |
| Field Vertical Reference | Mean Sea Level | Section Azimuth | 269.80° |



Planned Wellpath Report Preliminary Page 2 of 4



| REFER | ENCE WELLPATH IDENTIFICATION | | |
|----------|--------------------------------|----------|------------|
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| Area | Chaves County, NM | Well | No. 3H |
| Field | (Midway) Sec 17, T15S, R31E | Wellbore | No. 3H PWB |
| Facility | Midway 17 Fed No. 3H | | |

| ELLPATH DA' | TA (50 stations) | <u></u> | lated/extrapo | | γ | | | 1_ |
|-------------|--------------------|----------------|---------------|-------------------|--|--------------|------------------|------------|
| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | DLS [°/100ft] | Comments |
| 0.00 | 0.000 | 269.798 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | Tie On |
| 8660.00 | 0.000 | 269.798 | 8660.00 | 0.00 | 0.00 | 0.00 | 0.00 | KOP |
| 8760.00† | 30.000 | 269.798 | 8755.49 | 25.59 | -0.09 | -25.59 | 30.00 | |
| 8860.00† | 60.000 | 269.798 | 8825.40 | 95.49 | -0.34 | -95.49 | 30.00 | |
| 8960.00† | 90:000 | 269:798 | 8850.99 | 190.99 | -20.671 | -190!98 | 30.00 | |
| 8964.39 | 91.316 | 269.798 | 8850.94 | 195.37 | -0.69 | -195.37 | 30.00 | EOC |
| 9060.00† | 91.316 | 269.798 | 8848.74 | 290.96 | -1.03 | -290.96 | 0.00 | |
| 9160.00† | 91.316 | 269.798 | 8846.44 | 390.93 | -1.38 | -390.93 | 0.00 | |
| 9260.00† | 91.316 | 269.798 | 8844.14 | 490.91 | -1.73 | -490.90 | 0.00 | |
| 9360.00# | 91:316 | 269.798 | 8841 85 | 590.88 | -2:08 | 31-590.88) | 0.00 | |
| 9460.00† | 91.316 | 269.798 | 8839.55 | 690.85 | -2.44 | -690.85 | 0.00 | |
| 9560.00† | 91.316 | 269.798 | 8837.25 | 790.83 | -2.79 | -790.82 | 0.00 | |
| 9660.00† | 91.316 | 269.798 | 8834.96 | 890.80 | -3.14 | -890.80 | 0.00 | |
| 9760.00† | 91.316 | 269.798 | 8832.66 | 990.78 | -3.49 | -990.77 | 0.00 | |
| 9860.00# | 91.316 | 269.798 | 8830.36 | 1090.75 | -3.85 | : -1090:74 | 0.00 | |
| 9960.00† | 91.316 | 269.798 | 8828.06 | 1190.72 | -4.20 | -1190.72 | 0.00 | |
| 10060.00† | 91.316 | 269.798 | 8825.77 | 1290.70 | -4.55 | -1290.69 | 0.00 | |
| 10160.00† | 91.316 | 269.798 | 8823.47 | 1390.67 | -4.90 | -1390.66 | 0.00 | |
| 10260.00† | 91.316 | 269.798 | 8821.17 | 1490.64 | -5.26 | -1490.63 | 0.00 | |
| 10360:00 | 91:316 | 269.798 | 8818.88 | 1590.62 | -5.61 | -1590.61 | | 17 J. 1882 |
| 10460.00† | 91.316 | 269.798 | 8816.58 | 1690.59 | -5.96 | -1690.58 | 0.00 | |
| 10560.00† | 91.316 | 269.798 | 8814.28 | 1790.56 | -6.31 | -1790.55 | 0.00 | <u> </u> |
| 10660.00† | 91.316 | 269.798 | 8811.98 | 1890.54 | -6.67 | -1890.53 | 0.00 | 1 |
| 10760.00† | 91.316 | 269.798 | 8809.69 | 1990.51 | -7.02 | -1990.50 | 0.00 | |
| 10860!00† | 91.316 | 269.798 | 8807-39 | 2090.49 | Principle of the last of the l | =2090.47 | | |
| 10960.00† | 91.316 | 269.798 | 8805.09 | 2190.46 | -7.72 | -2190.45 | 0.00 | |
| 11060.00† | 91.316 | 269.798 | 8802.80 | . 2290.43 | -8.08 | -2290.42 | 0.00 | |
| 11160.00† | 91.316 | 269.798 | 8800.50 | 2390.41 | -8.43 | -2390.39 | 0.00 | |
| 11260.00† | 91.316 | 269.798 | 8798.20 | 2490.38 | -8.78 | -2490.36 | 0.00 | 1 |
| 11360:00† | 91316 | 269.798 | 8795.90 | 2590.35 | -9.13 | 2590.34 | (0.00 | |



Planned Wellpath Report Preliminary Page 3 of 4



| REFER | ENCE WELLPATH IDENTIFICATION | | |
|----------|--------------------------------|----------|------------|
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| Area | Chaves County, NM | Well | No. 3H |
| Field | (Midway) Sec 17, T15S, R31E | Wellbore | No. 3H PWB |
| Facility | Midway 17 Fed No. 3H | | |

| WELLPATH DA | WELLPATH DATA (50 stations) † = interpolated/extrapolated station | | | | | | | | | | | |
|-------------|---|----------------|----------------------|-------------------|---------------|--------------|------------------|----------|--|--|--|--|
| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | DLS [°/100ft] | Comments | | | | |
| 11460.00† | 91.316 | 269.798 | 8793.61 | 2690.33 | -9.49 | -2690.31 | 0.00 | | | | | |
| 11560.00† | 91.316 | 269.798 | 8791.31 | 2790.30 | -9.84 | -2790.28 | 0.00 | | | | | |
| 11660.00† | 91.316 | 269.798 | 8789.01 | 2890.27 | -10.19 | -2890.26 | 0.00 | | | | | |
| 11760.00† | 91.316 | 269.798 | 8786.72 | 2990.25 | -10.54 | -2990.23 | 0.00 | | | | | |
| 11860:00† | 91.316 | 269.798 | 8784:42 | 3090.22 | -10.90] | -3090.20 | ir | | | | | |
| 11960.00† | 91.316 | 269.798 | 8782.12 | 3190.20 | -11.25 | -3190.18 | 0.00 | | | | | |
| 12060.00† | 91.316 | 269.798 | 8779.82 | 3290.17 | -11.60 | -3290.15 | 0.00 | | | | | |
| 12160.00† | 91.316 | 269.798 | 8777.53 | 3390.14 | -11.95 | -3390.12 | 0.00 | | | | | |
| 12260.00† | 91.316 | 269.798 | 8775.23 | 3490.12 | -12.31 | -3490.09 | 0.00 | | | | | |
| 12360.00† | 91.316 | 269.798 | 8772.93 | 3590.09 | -12.66 | -3590.07 | 0.00 | | | | | |
| 12460.00† | 91.316 | 269.798 | 8770.64 | 3690.06 | -13.01 | -3690.04 | 0.00 | | | | | |
| 12560.00† | 91.316 | 269.798 | 8768.34 | 3790.04 | -13.36 | -3790.01 | 0.00 | | | | | |
| 12660.00† | 91.316 | 269.798 | 8766.04 | 3890.01 | -13.72 | -3889.99 | 0.00 | | | | | |
| 12760.00† | 91.316 | 269.798 | 8763.74 | 3989.98 | -14.07 | -3989.96 | 0.00 | | | | | |
| 12860.00† | 91.316 | 269.798 | 87.61.45 | 4089.96 | -14:42 | -4089.93 | 0.00 | | | | | |
| 12960.00† | 91.316 | 269.798 | 8759.15 | 4189.93 | -14.77 | -4189.91 | 0.00 | | | | | |
| 13060.00† | 91.316 | 269.798 | 8756.85 | 4289.90 | -15.13 | -4289.88 | 0.00 | | | | | |
| 13160.00† | 91.316 | 269.798 | 8754.55 | 4389.88 | -15.48 | -4389.85 | 0.00 | | | | | |
| 13260.00† | 91.316 | 269.798 | 8752.26 | 4489.85 | -15.83 | -4489.82 | 0.00 | 1 | | | | |
| 13358.28 | 91.316 | 269.798 | 8750.00 ¹ | 4588,10 | -16.18 | -4588.07 | 0.00 | No.3HBHL | | | | |



Planned Wellpath Report Preliminary Page 4 of 4



| REFER | ENCE WELLPATH IDENTIFICATION | | |
|----------|--------------------------------|----------|------------|
| Operator | Cimarex Energy Co. of Colorado | Slot | No. 3H SHL |
| Area | Chaves County, NM | Well | No. 3H |
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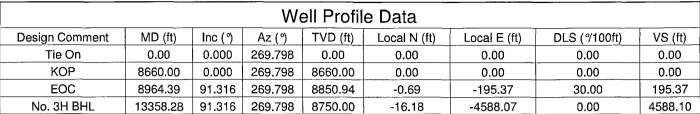
| TARGETS | · · · · · · · · · · · · · · · · · · · | | | | | | | - | |
|---------------|---------------------------------------|-------------|---------------|--------------|-----------------------|------------------------|------------------|------------------|-------|
| Name | MD [ft] | TVD [ft] | North [ft] | East [ft] | Grid East [srv ft] | Grid North [srv ft] | Latitude | Longitude | Shape |
| 1) No. 3H BHL | 13358.28 | 8750.00 | -16.18 | -4588.07 | 688999.43 | 732995,42 | . 33º00'50.669"Ñ | 103°51'05:801''W | point |

| SURVEY PROGRAM Ref Wellbore: No. 3H PWB Ref Wellpath: Preliminary | | | | | |
|---|----------|------------------------------|------------------|------------|--|
| Start MD | End MD | Positional Uncertainty Model | Log Name/Comment | Wellbore | |
| 18.00 | <u>L</u> | NaviTrak (Standard) | | No. 3H PWB | |



Cimarex Energy Co. of Colorado Location: Chaves County, NM Field: (Midway) Sec 17, T15S, R31E Facility: Midway 17 Fed No. 3H Wellis No. 3H Wellis No. 3H PWB





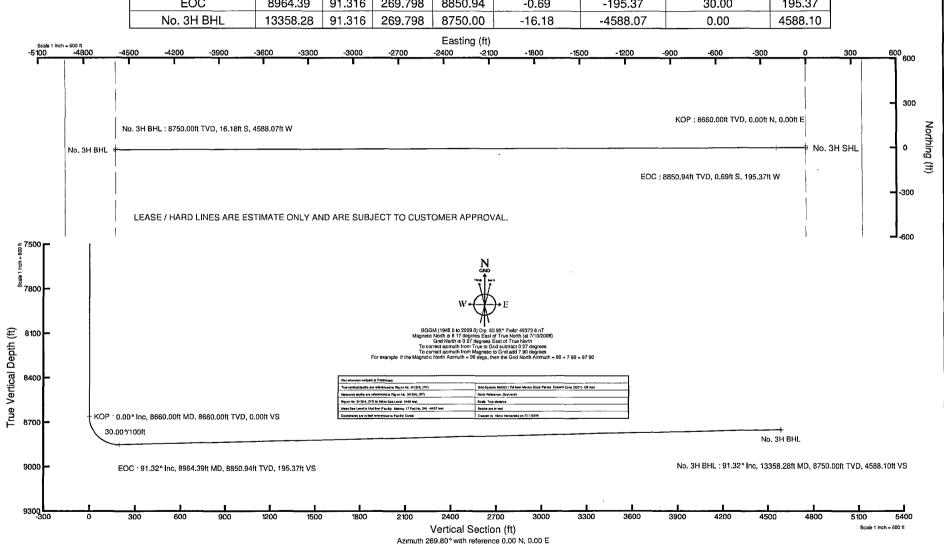


Exhibit A – General Location Map

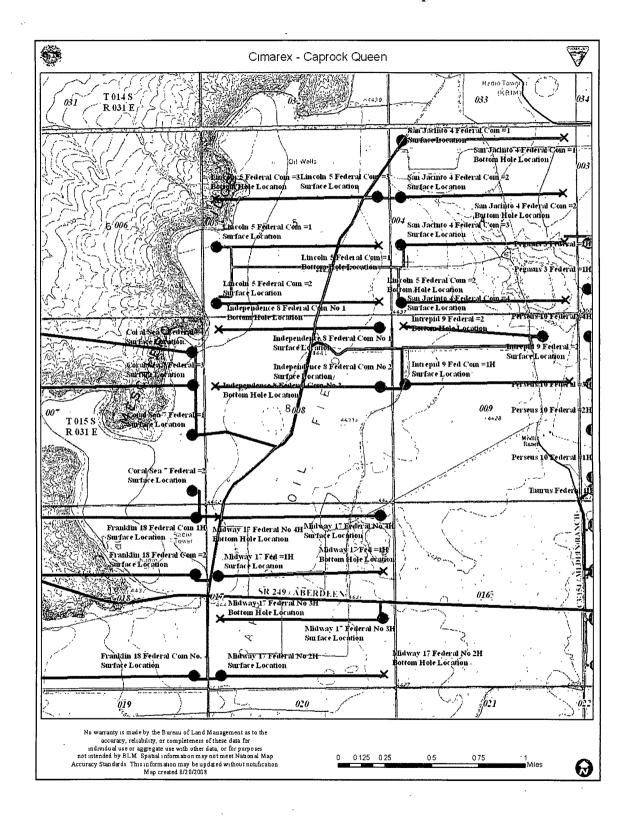


EXHIBIT B PECOS DISTRICT - RFO CONDITIONS OF APPROVAL

November 10, 2008

Midway 17 Federal #3

Surface: 1980' FSL & 375' FEL, Sec. 17 T15S-R31E Bottom: 1980' FSL & 330' FWL, Sec. 17 T15S-R31E

> Chaves County, New Mexico NMPM Cimarex Energy Company of Colorado Lease Number: LC-06900

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, mineral materials extracted during construction of the reserve pit may be used for surfacing the well pad and access road and other facilities on the lease.

Payment shall be made to the BLM prior to removal of any additional federal mineral materials from any site other than the reserve pit. 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.

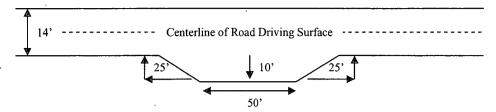
Crowning

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:

Standard Turnout - Plan View

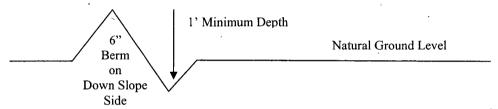


Drainage

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:
$$\frac{400'}{40\%}$$
 + 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

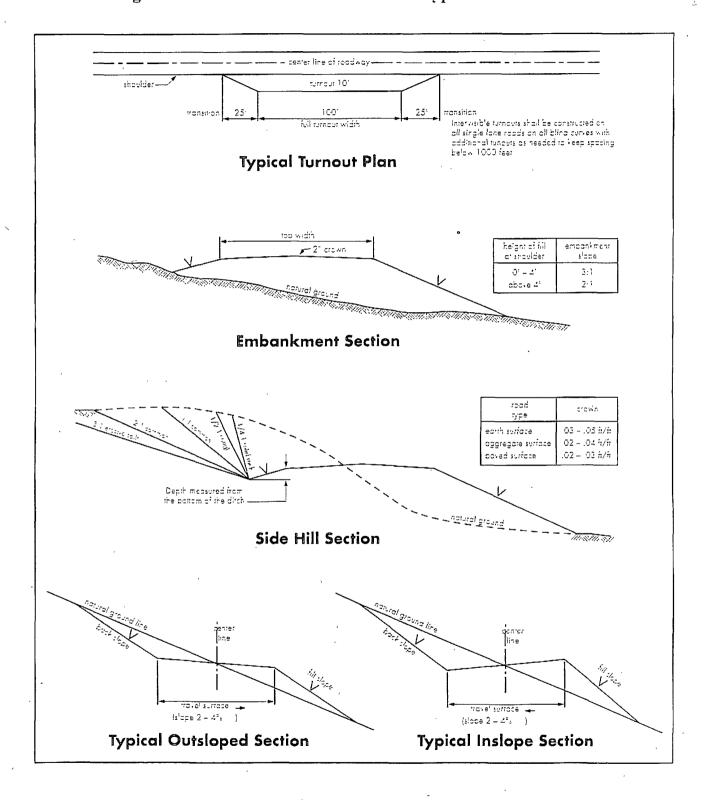
Where entry is required across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting.

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

A. DRILLING OPERATIONS REQUIREMENTS

- 1 Call the Roswell Field Office, 2909 West Second St., Roswell, NM 88201. During office hours call (575) 627-0205 or after office hours call (575) 910-6024. Engineer on call during office hours call (575) 627-0275 or after office hours call (575) 626-5749.
- 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 Number assigned to well by NMOCD on the subsequent report of setting the first casing string.
- 5. The operator will accurately measure the drilling rate in ft/min to set the base of the usable water protection casing string(s) opposite competent rock. The record of the drilling rate along with the caliper-gamma ray-neutron well log run to surface will be submitted to this office as well as all other logs run on the borehole 30 days from completion
- 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(s). Any polymers used will be water based and non-toxic.

B. CASING

1. The 13 3/8 inch usable water protection casing string(s) shall be set at approximately 340 ft. opposite competent bedrock.

If not the operator is required to set usable water protecting casing in the next thick competent bedding (i.e. 15 to 25 ft or greater) encountered and cemented 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 <u>9-5/8</u> inch intermediate casing is <u>sufficient</u> 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 <u>7</u> inch production casing is <u>sufficient to tie</u> <u>back 500 feet above the uppermost perforation in the pay zone</u>. 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 <u>4-1/2</u> 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 <u>13-3/8</u> 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 <u>9-5/8</u> 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 <u>13-3/8</u> inch surface casing shoe, minimum working pressure of the blowout preventer and related equipment (BOPE) shall be <u>2000</u> psi. Before drilling below the <u>9-5/8</u> inch intermediate casing shoe, minimum working pressure of the blowout preventer and related equipment (BOPE) shall be <u>3000</u> psi.
- 3. The BOPE shall be installed before drilling below the <u>13-3/8</u> inch surface casing and the <u>9-5/8</u> 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.

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 obtușum) | 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) | <u>0.75 LB.</u> | | | |
| TOTAL POUNDS PURE LIVI | 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.