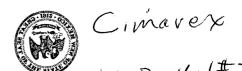
| DATE IN 10.27.10 | SUSPENSE | ENGINEER M | LOGGED IN /1. 27./0 | TYPESWD | (|
|------------------|----------|------------|---------------------|---------|---|
| , , | | | | | |

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECK

| THIS CH | ECKLIST IS MA | ANDATORY FOR ALL ADMINISTRATIVE APPLICA | | S AND REGULATIONS |
|---------------------------|-----------------|---|--|--|
| | | dard Location] [NSP-Non-Standard | Proration Unit] [SD-Simultaneous D | <u>-</u> |
| | [PC-Po | nhole Commingling] [CTB-Lease Co of Commingling] [OLS - Off-Lease S [WFX-Waterflood Expansion] [PMX | Storage] [OLM-Off-Lease Measure | |
| | | [SWD-Salt Water Disposal] [IP ified Enhanced Oil Recovery Certific | I-Injection Pressure Increase] | Response] |
| [1] TY | PE OF AP [A] | PLICATION - Check Those Which A Location - Spacing Unit - Simultaned NSL NSP SD | | |
| | Check [B] | One Only for [B] or [C] Commingling - Storage - Measureme DHC CTB PLC | ent DLS DLM | 200 OCT 27 |
| | [C] | Injection - Disposal - Pressure Increa | ase - Enhanced Oil Recovery IPI EOR PPR | |
| | [D] | Other: Specify | | E EST |
| [2] N C | TIFICATI [A] | ON REQUIRED TO: - Check Those Working, Royalty or Overriding | e Which Apply, or 🔀 Does Not Appl g Royalty Interest Owners | 6010 6900 C |
| | [B] | ☐ Offset Operators, Leaseholders | or Surface Owner | 1 6900 |
| | [C] | Application is One Which Requ | uires Published Legal Notice | 6010 |
| | [D] | Notification and/or Concurrent U.S. Bureau of Land Management - Commission | Approval by BLM or SLO | |
| | [E] | For all of the above, Proof of N | otification or Publication is Attached, | and/or, |
| | [F] | Waivers are Attached | | |
| | | CURATE AND COMPLETE INFO | RMATION REQUIRED TO PRO | CESS THE TYPE |
| approval is | accurate ar | FION: I hereby certify that the inform of complete to the best of my knowled quired information and notifications are | lge. I also understand that no action | for administrative will be taken on this |
| | Note: | Statement must be completed by an individ | ual with managerial and/or supervisory cap | acity. |
| Zeno Far Print or Type | | Signature Signature | Mgr Operations Admin Title | 10/22/10 Date |
| | | | <u>zfarris@cimarex.com</u> e-mail Address | |



600 N. Marienfeld St. ♦ Suite 600 ♦ Midland, TX 79701 ♦ (432) 620-1938 ♦ Fax (432) 620-1940 A subsidiary of Cimarex Energy Co. • A NYSE Listed Company • "XEC"

Date: October 26, 2010

New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505 Attn: Mr. Will Jones

Re: Pipeline Deep Unit No. 1 API No. 30-025-24470

SWD Administrative Application

Dear Mr. Jones:

Enclosed is an original C-108 (Application for Authorization to Inject) for the above mentioned well.

The well is currently a shut-in Morrow well. Cimarex proposes to abandon the lower zones, cut casing and convert to a Delaware open hole SWD well from 6010'-6900'.

Proof of notice to affected parties and Affidavit of Publication are attached.

If you have any questions of need additional information please call me at 432-620-1938.

Sincerely,

Zeno Farris

Manager, Operations Administration

Zeno Farin

Permian Basin Region Phone: 432-620-1938 Fax: 432-620-1940 STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

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

FORM C-108 Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

| I. | PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage Application qualifies for administrative approval? Yes No | | | | | | | | | |
|--------|---|--|--|--|--|--|--|--|--|--|
| II. | OPERATOR:Cimarex Energy Co. of Colorado | | | | | | | | | |
| | ADDRESS: 600 N. Marienfeld St Suite 600; Midland, TX 79702 | | | | | | | | | |
| | CONTACT PARTY: Zeno Farris PHONE: 432-620-1938 | | | | | | | | | |
| III. | WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary. | | | | | | | | | |
| IV. | Is this an expansion of an existing project? Yes X No If yes, give the Division order number authorizing the project: | | | | | | | | | |
| V. | Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review. | | | | | | | | | |
| VI. | Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail. | | | | | | | | | |
| VII. | Attach data on the proposed operation, including: | | | | | | | | | |
| | Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and, If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.). | | | | | | | | | |
| *VIII. | Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval. | | | | | | | | | |
| IX. | Describe the proposed stimulation program, if any. | | | | | | | | | |
| *X. | Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted). | | | | | | | | | |
| *XI. | Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken. | | | | | | | | | |
| XII. | Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water. | | | | | | | | | |
| XIII. | Applicants must complete the "Proof of Notice" section on the reverse side of this form. | | | | | | | | | |
| XIV. | Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief. | | | | | | | | | |
| | NAME: Zeno Farris TITLE: Manager Operations Administration | | | | | | | | | |
| | NAME: Zeno Farris TITLE: Manager Operations Administration SIGNATURE: DATE: 10-21-10 | | | | | | | | | |
| * | E-MAIL ADDRESS:zfarris@cimarex.com If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: | | | | | | | | | |

III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:
 - (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
 - (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
 - (3) A description of the tubing to be used including its size, lining material, and setting depth.
 - (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.
 - (1) The name of the injection formation and, if applicable, the field or pool name.
 - (2) The injection interval and whether it is perforated or open-hole.
 - (3) State if the well was drilled for injection or, if not, the original purpose of the well.
 - (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
 - (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

OPERATOR:

WELL NAME & NUMBER:

WELL LOCATION:

INJECTION WELL DATA SHEET

(Perforated or Open Hole; indicate which) Open Hole

INJECTION WELL DATA SHEET

| | Tubing Size: 27/8", 9.3#, L-80 Lining Material: Nylon (IPC 101) |
|-----------------|---|
| Ty | Type of Packer: 5 1/2" AS-1X Pkr |
| Pa | Packer Setting Depth +/- 5900' |
| Ot | Other Type of Tubing/Casing-Seal-(if applicable): |
| | Additional Data |
| 1. | Is this a new well drilled for injection? |
| | If no, for what purpose was the well originally drilled? Oil & Gas Production |
| | |
| 5. | Name of the Injection Formation: Delaware (Upper Cherry Canyon/Upper Brushy Canyon) |
| $\ddot{\omega}$ | Name of Field or Pool (if applicable): N/A |
| 4. | Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. See attached current & proposed WBD. Well was originally drilled to 13551' and produced from Morrow perfs from 13292'-13319' w perfs at 13456'-13460' behind CIBP at 13335' w/20' cement cap. |
| S. | Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Morrow (12920'), Atoka (12449'), Strawn (12180') Wolfcamp (10730'), Bone Spring (7952') — underlying |

C-108 Attachment

Section VI - There are four wells within the area of review, all of which penetrated the injection interval. See attached WBD.

- Mescalero Unit Federal No. 2, 1980' FSL & 1980' FEL Sec 17-19S-34S drilled to a depth of 10235'. PA 6-13-64.
 - Mescalero Unit No. 4, 330' FSL & 330' FEL Sec. 17-19S-34E drilled to a depth of 10200'. PA 5-19-65.
- Lea ED State NCT A No. 3, 1980' FSL & 660' FWL Sec 16-19S-34E drilled to a depth of 10200'. PA 12-11-78.
- The Amtex Energy Inc. Lea ED State NCT A No. 1, 760' FSL & 660' FEL Sec 16-19S-34E drilled to a depth of 13521' and currently producing from Quail Ridge Bone Spring. TOC for 7" production casing at 5720' by 1962 temperature survey.

Section VII - Data on Proposed Operation

- 1. Proposed Average and Maximum Daily Rate and Volume of Fluids to be Injected
- a. Average Daily Rate: 2000 BWPD
 - b. Maximum Daily Rate: 3000 BWPD
- 2. Open or Closed System:
- a. Injection System is a closed System
- 3. Proposed Average & Maximum* Injection Pressure
 - a. Average Injection Pressure: 900 psi
- b. Maximum Injection Pressure: 1200 psi
- i. Until a fracture gradient is determined, maximum injection pressure will be based on a 0.2 psi/ft gradient
- 4. Sources or Appropriate Analysis of Injection Fluid
- The source of the injection water will be produced water from Cimarex operated Morrow, and Bone Spring wells in the area (see attached representative water analysis).
- Analysis of disposal zone formation water
- below the injection interval below 7500'. The Pipeline well had no shows in the Cherry Canyon or Brushy canyon intervals. See attached water analysis a. The nearest Delaware production is to the south in the Lea Delaware; Northeast above 5900' and to the north in the Dios Mano Delaware; South of a Delaware well to the south which should be analogous to the formation water in the Pipeline Deep Unit 1 SWD and is compatible with the Bone Spring and Morrow formation water to be injected.

Section VIII - Geologic Data on Injection Zone

- 1. The injection interval 6010' 6900' is in the Delaware formation of the Devonian System with dolomite geology. The estimated top of the Delaware formation is at 5580' while the bottom of the formation is at 7952'.
- The Office of the State Engineer indicates the average depth to usable quality ground water in the area is 200' in the Ogallala aquifer.

Section IX - Proposed stimulation program:

- 1. Pipeline Deep Unit # 1 SWD
- a. Acidize with 1500 gals 7 1/2% type acid

Section X - Logs have previously been filed on the Pipeline Deep Unit Federal #1

Section XI - Fresh water wells within one mile of proposed disposal well

1. The Office State Engineer records indicate there no fresh water wells within 1 mile of the proposed disposal well.

Section XII - Statement of Hydrologic connection between disposal zone and underground sources of drinking water.

1. Based on available geologic and engineering data Cimarex finds no evidence of open faults or any other hydrologic connection between the disposal zone and underground sources of drinking water.

Section XIII and XIV - Proof of Notice

1. Surface owners - Application mailed by Certified Mail to the following:

Bureau of Land Management 620 E Greene St Carlsbad, NM 88220 2. Leasehold Operators within ½ mile of proposed injection well – application mailed by Certified Mail to the following:

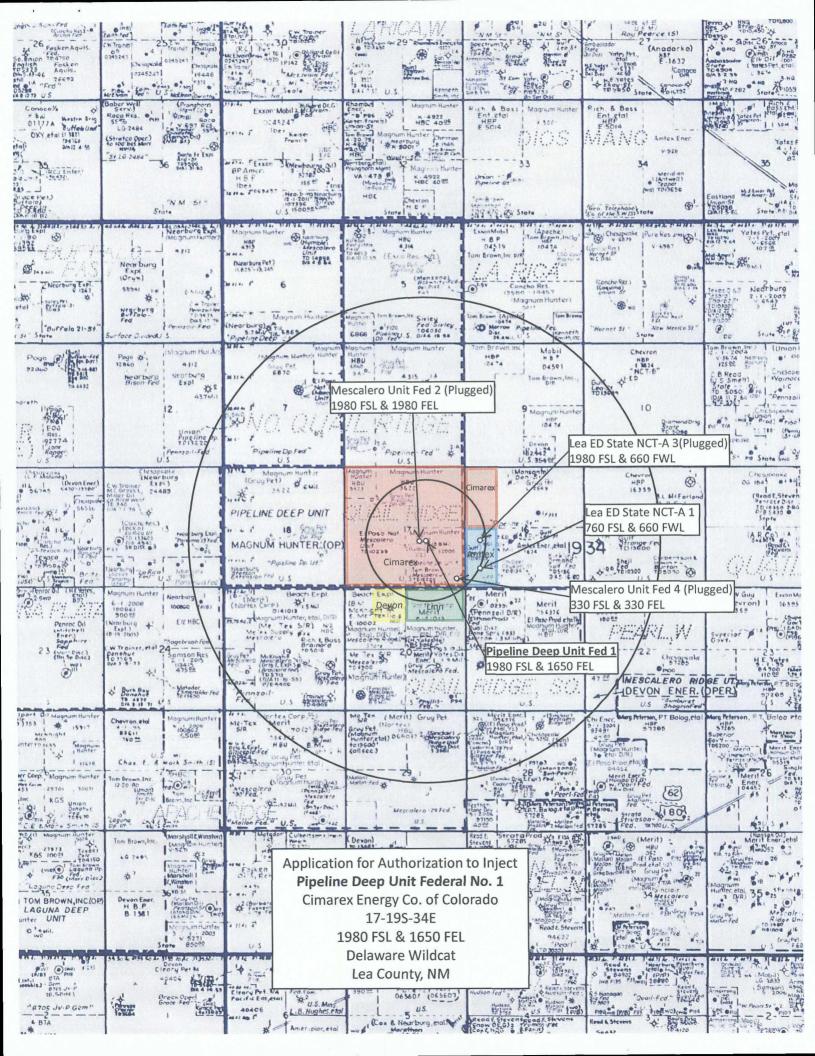
Cimarex Energy Co. of Colorado 600 N Marienfeld St Suite 600 Midland TX 79701

Amtex Energy Inc. P.O. Box 3418 Midland, TX 79702 Linn Operating Inc.
600 Travis Suite 5100
Houston TX 77002
Devon Energy Production Company, LP

3. Publication and proof of notice - Attached

Oklahoma City, OK 73102

20 N Broadway



CURRENT WELLBORE KB: 3776' (19') GL: 3757' 11 3/4" 42# H40 @ 447' (15" hole) Cmt'd w/400 sx, circ 50 sx 8 5/8" 32# S80/J55 @ 5352' (11" hole) Cmt'd w/500 sx, TOC @ surface TOC 10080' (TS) Junk in hole: 8/3/07 10' tail 2 7/8" cut off w/swab bar & ~ 50' swab line

Cimarex Energy Co. of Colorado

Pipeline Deep Unit Federal #1 1980' FSL & 1650' FEL Sec 17, T19S R34E Lea County, NM API 30-025-24470

From 8/13/07 Report

Tubing hung off in WH w/2 7/8" BO2 adapter, screwed on WH, seal assembly 2.35" ID

Tubing Detail (from 8/13/07 report)

KB Correction

19

| Quantity | Description | Length | Setting Depth |
|----------|-------------------------------------|----------|---------------|
| | 2 7/8" sub (8', 10') | 18.00 | 37.00 |
| 279 | 2 7/8" L80 8rd EUE | 5041.00 | 5078.00 |
| | X-over, 8rd to DSS HT | 1.00 | 5079.00 |
| 248 | 2 7/8" DSS HT 6.5# | 8026.00 | 13105.00 |
| | X-over & 2.31" 'F' nipple | 0.00 | 13105.00 |
| 1 | 2 7/8" L80 8rd EUE | 32.19 | 13137.19 |
| | 5 1/2" MD E 22 anchor seal assembly | 0.85 | 13138.04 |
| | FB1 Retainer production pkr | 3.10 | 13141.14 |
| | 4" millout ext | 5.91 | 13147.05 |
| | 4" X-over to 2 7/8" EUE | 0.68 | 13147.73 |
| | 2 7/8" tbg, jet cut on btm | 20.00 | 13167.73 |
| | | | |
| | | | |
| | Total Tubing String Length | 13148.73 | |

Morrow Perfs:

13292'-13298' (24 holes) 13302'-13319' (68 holes)

CIBP 13355' w/20' cmt cap Lwr Morrow

13456'-13460' (10 holes) shot in acid

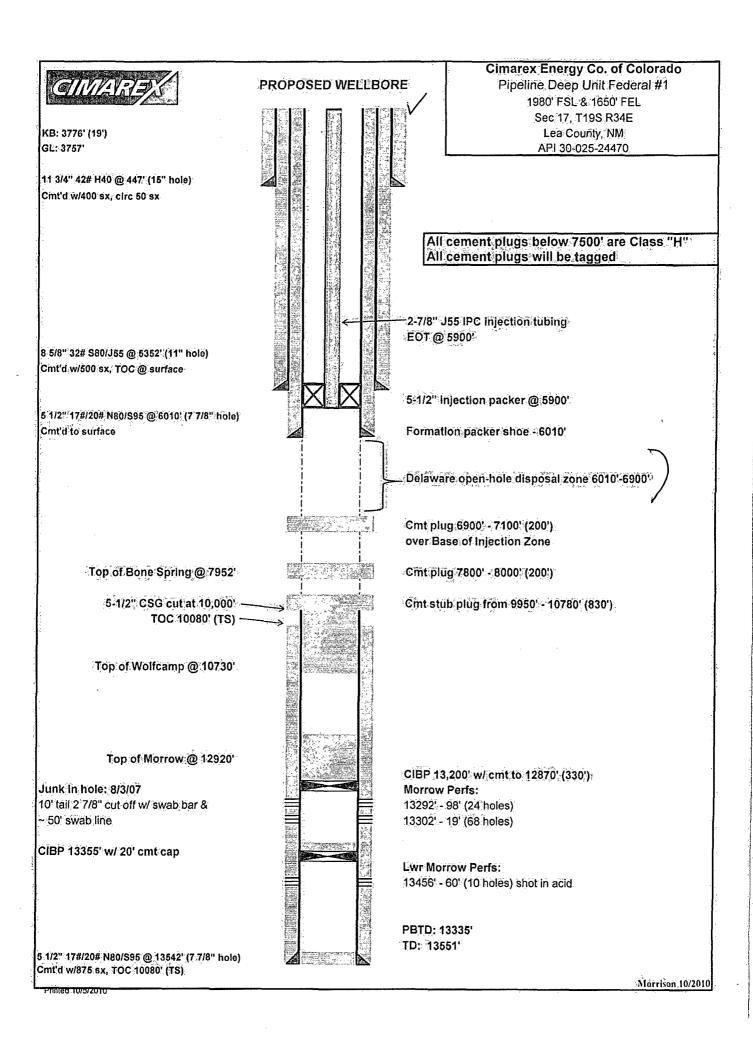
PBTD: 13335' TD: 13551'

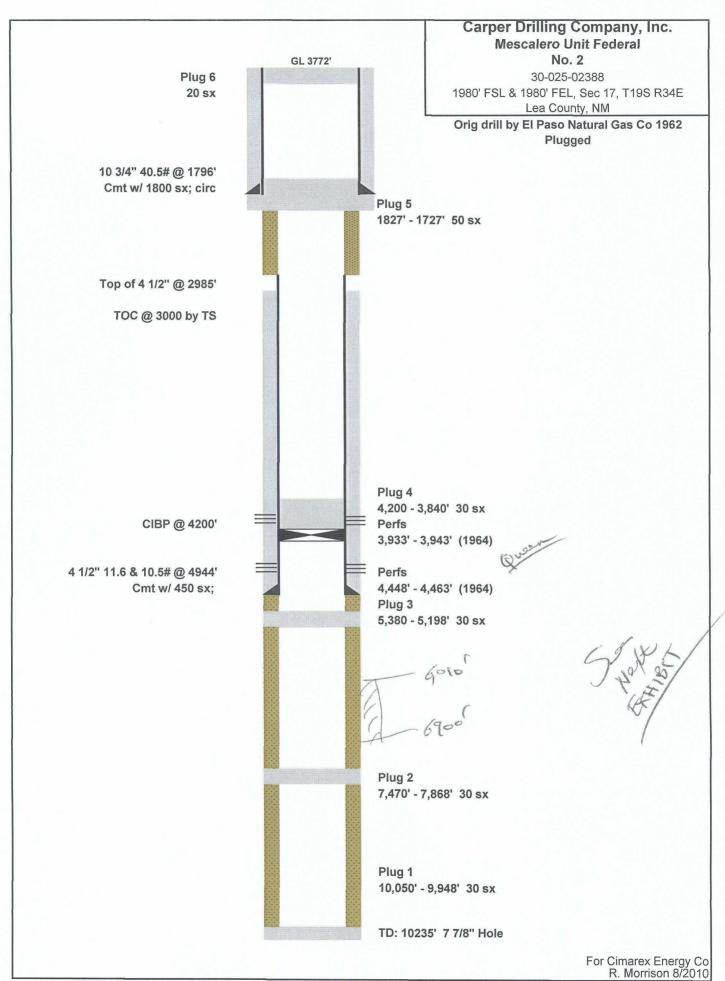
L. Luig 11/5/09

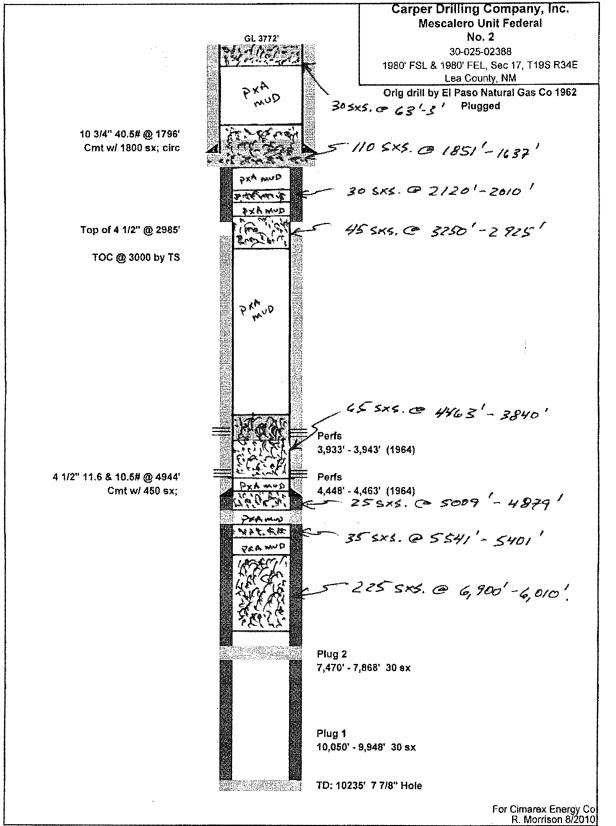
Printeg 6/6/2010

5 1/2" 17#/20# N80/S95 @ 13542' (7 7/8" hole)

Cmt'd w/875 sx, TOC 10080' (TS)







Printed 11/29/2010

DAE 12/06/10.

Form 3160-5 (September 2001)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB NO. 1004-0135 Expires January 31, 2004

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.NM 023926. If Indian, Allottee or Tribe Name

| abandoned well. Use For | m 3160-3 (APD) for such proposals. | |
|---|--|---|
| SUBMIT IN TRIPLICATE - | Other instructions on reverse side | 7. If Unit or CA/Agreement, Name and/or No MESCALERO UNIT |
| 1. Type of Well Gas Well X Other | PLUGGED AND ABANDONED WELL | 0.30.403 |
| Name of Operator CIMAREX ENERGY COMPANY CO. OF COLOR Address | FEDERAL 9. API Well No. | |
| 600 N. MARIENFELD, STE, 600, MIDLAN 4. Location of Well (Footage, Sec., T., R., M., or Survey) | | 30-025-02388 10. Field and Poot, or Exploratory Area WILLCAT |
| 1980' FSL & 1980' FEL SEC. 17, T-19-S, R-34-E | | 11. County or Parish, State LEA COUNTY NM |
| 12. CHECK APPROPRIATE | BOX(ES) TO INDICATE NATURE OF NOTICE, REF | PORT, OR OTHER DATA |
| TYPE OF SUBMISSION | TYPE OF ACTION | V |
| X Notice of Intent Subsequent Report Final Abandonment Notice | Alter Casing Fracture Treat Reclamat Casing Repair New Construction Recomple | ete Other |
| If the proposal is to deepen directionally or recomp Attach the Bond under which the work will be pe following completion of the involved operations, testing has been completed. Final Abandonment I determined that the final site is ready for final inspe | y state all pertinent details, including estimated starting date of any polete horizontally, give subsurface locations and measured and true verformed or provide the Bond No. on file with BLM/BIA. Required if the operation results in a multiple completion or recompletion in a Notices shall be filed only after all requirements, including reclamatetion.) XXXING OF THE MESCALERO UNIT FEDERAL #002: | ertical depths of all pertinent markers and zones, subsequent reports shall be filed within 30 days new interval, a Form 3160-4 shall be filed once |
| 1) DRILL OUT EXISTING CEMENT PLUX 2) MIX X PUMP A 225 SX. CMT. PLUX 3) MIX X PUMP A 35 SX. CMT. PLUG 4) MIX X PUMP A 25 SX. CMT. PLUG 5) MIX X PUMP A 65 SX. CMT. PLUG 6) MIX X PUMP A 45 SX. CMT. PLUG | SS X 4-1/2" CIBP @ 4,200' X TAG EXISTING OMI G @ 6,900'-6,010'(O/H); WOC X TAG TOP OF OMI. | PLUG; CIRC. WELL W/ PXA MUD. OF CMT. PLUG. IOC X TAG TOP OF CMT. PLUG. |

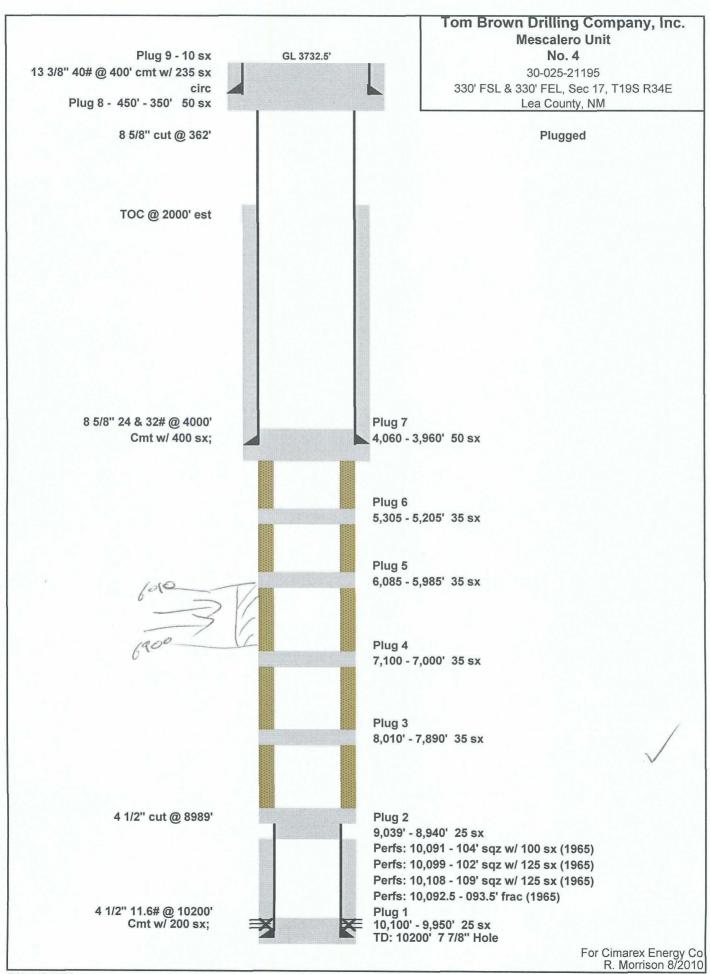
| 14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) DAVID A. EYLER | Title AGENT | | | | |
|---|-----------------------|------|--|--|--|
| UNAPPROVED DAE | Date 12/06/10 | | | | |
| THIS SPACE FOR FEDERA | L OR STATE OFFICE USE | | | | |
| Approved by | Title | Date | | | |
| Conditions of approval, if any, are attached. Approval of this notice does not warrant certify that the applicant holds legal or equitable title to those rights in the subject leawhich would entitle the applicant to conduct operations thereon. | or Office | | | | |

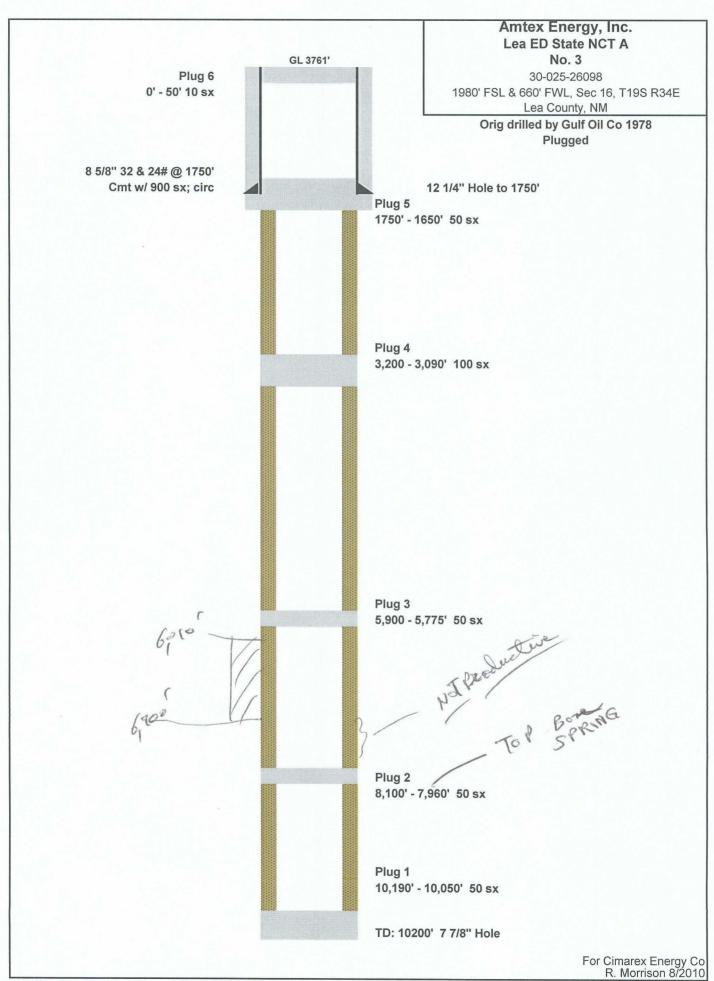
8) MIX X PUMP A 110 SX. CMT. PLUG @ 1,851'-1,637'(10-3/4" CSG. SHOE X T/ANHY.); WOC X TAG CMT. PLUG.

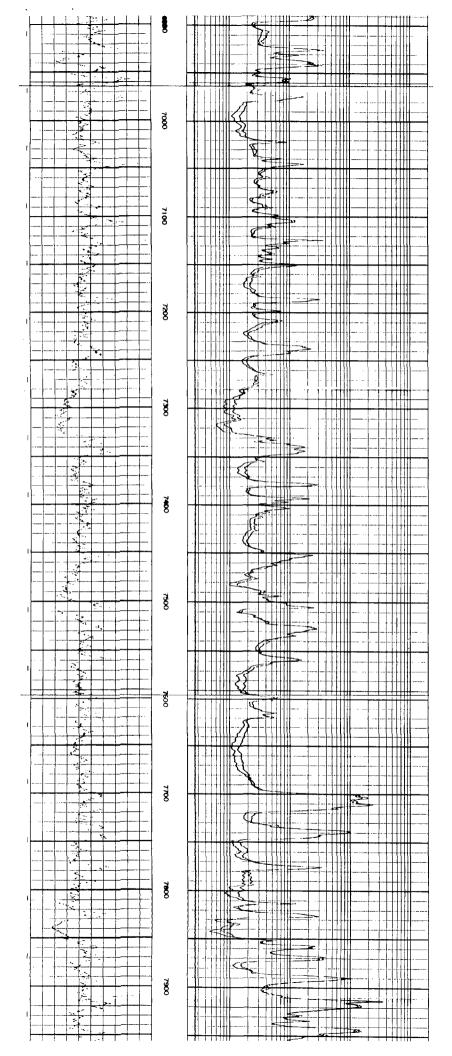
9) MIX X CIRC. TO SURF. A 30 SX. CMT. PLUG @ 63'-3'.

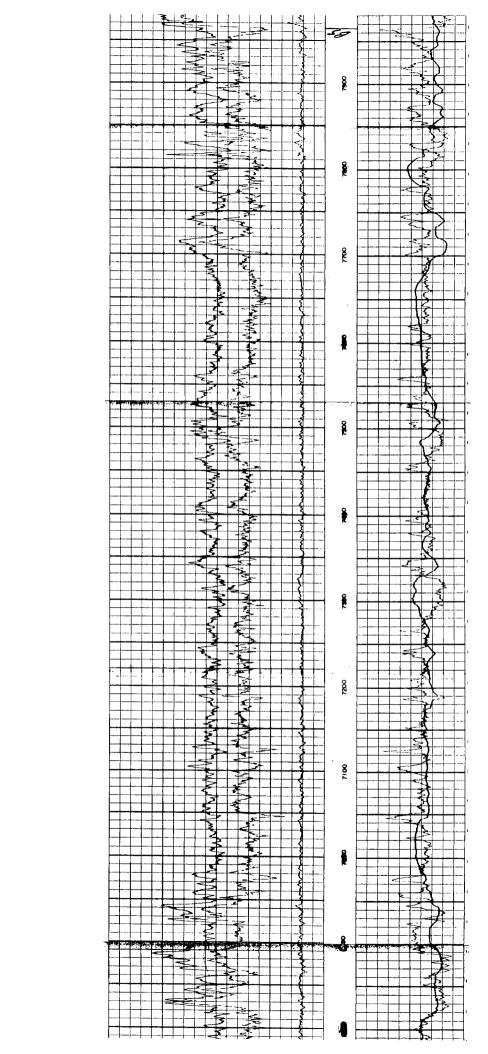
10) WELD STEEL PLATE ONTO 10-3/4" CASING X INSTALL DRY HOLE MARKER.

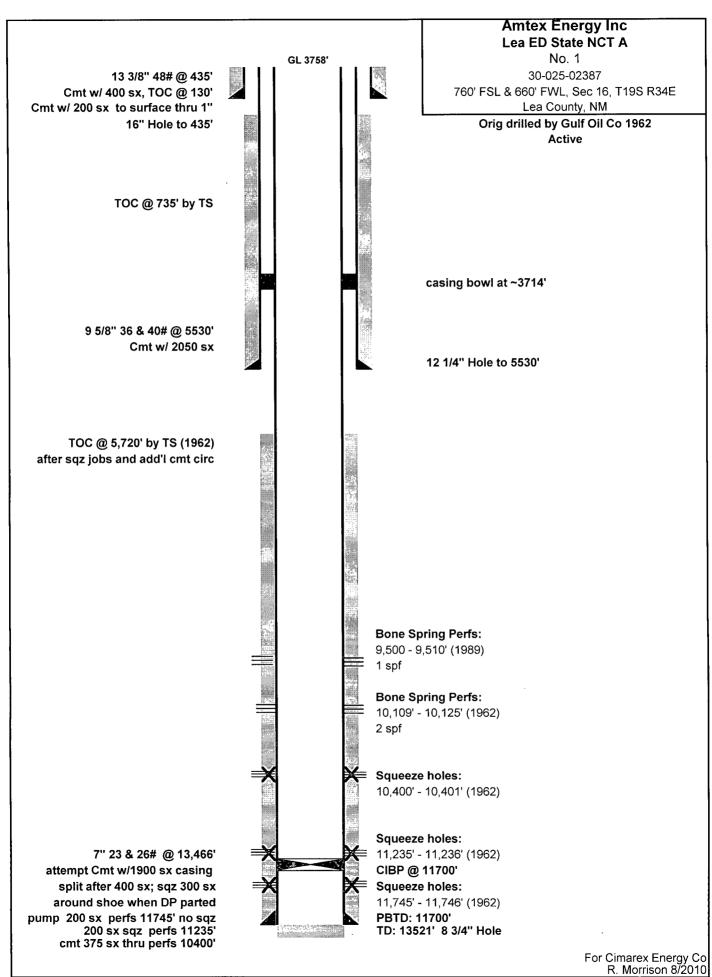
Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, makes it a crime for any person knowingly and willfully to make to any department or agency of the United











CENTRAL OPERATIONS LABORATORY WATER ANALYSIS REPORT HOBBS, NEW MEXICO

| COMPANY | Gruy Petroleur | m | | | REPORT DATE DISTRICT | W05-119 April 1, 2005 Hobbs | <u> </u> |
|---|--------------------------------------|---------------------------------|--------------------|---------------------------------|---|------------------------------|-----------------------------|
| SUBMITTED BY WELL Pipe COUNTY TANK # SAMPLE | MOΩ eline Deep #18 Fe | ed #4 DEP | | | FORMATION SOURCE | | |
| Sample Temp. RESISTIVITY SPECIFIC GR. | 70 0.24 1.040 | °F | | °F | °F | | °F |
| pH CALCIUM MAGNESIUM CHLORIDE SULFATES BICARBONATES SOLUBLE IRON KCL Sodium TDS OIL GRAVITY REMARKS | 6.69 1,150 750 22,016 Light 793 25 N | mpl mpl mpl mpl mpl mpl mpl mpl | @ | mpl mpl mpl mpl mpl mpl mpl mpl | mpl mpl mpl mpl mpl mpl mpl or of the state | | mpl mpl mpl mpl mpl mpl mpl |
| This report is the | property of Hallibu | uton Company o | and neither it not | any | Res | iitivity measured in: Ohm/m2 | 2/m |

ANALYST: ____

part thereof nor a copy thereof is to be published or disclosed without first

securing the express written approval of laboratory management: it may however, be used in the course of regular business operations by any person or concern and employees thereof receiving such report from Halliburton Co.

CAPITAN CHEMICAL WATER ANALYSIS REPORT

MORROW

Cimarex

Date Sampled : 06/21/06

Lease Name :

Laguna

Well Number :

Fed #8

Capitan Rep. : S Seed Company Rep. : C Johnson

Location

Lea County, N.M.

| ANALYSIS | |
|----------|--|
| | |

| 1. | pH | 6.8 | | | | |
|-----|--------------------------------|----------------|----|------------|--------|----------------|
| 2. | Specific Gravity @ 60/60 F. | 1.026 | | | | |
| 3. | CaCO3 Saturation Index @ 80 F. | +0.272 | | 'Calcium (| Carbon | ate Scale Poss |
| | @ 140 F. | +1.212 | | 'Calcium (| Carbon | ate Scale Poss |
| | Dissolved Gasses | | | | | |
| 4. | Hydrogen Sulfide | 0 | | PPM | | |
| 5. | Carbon Dioxide | 191 | | PPM | | |
| 6. | Dissolved Oxygen | Not Determined | | | | |
| | Cations | mg/L | _/ | Eq. Wt. | = | MEQ/L |
| 7. | Calcium (Ca++) | 2,400 | 1 | 20.1 | = | 119.40 |
| 8. | Magnesium (Mg++) | 1,337 | 1 | 12.2 | = | 109.55 |
| 9. | Sodium (Na+) Calculated | 11,727 | 1 | 23.0 | = | 509.89 |
| 10. | Barium (Ba++) | Not Determined | 1 | 68.7 | = | 0.00 |
| | Anions | | | | | |
| 11. | Hydroxyl (OH-) | 0 | 1 | 17.0 | = | 0.00 |
| 12. | Carbonate (CO3=) | 0 | 1 | 30.0 | = | 0.00 |
| 13. | Bicarbonate (HCO3-) | 756 | 1 | 61.1 | = | 12.38 |
| 4. | Sulfate (SO4=) | 2,460 | 1 | 48.8 | = | 50.40 |
| 15. | Chloride (CI-) | 24,000 | 1 | 35.5 | = | 676.06 |
| | Other | | | | | |
| 6. | Soluble Iron (Fe) | 20 | 1 | 18.2 | = | 1.10 |
| 7: | Total Dissolved Solids | 42,680 | | | | |
| 8. | Total Hardness As CaCO3 | 11,500 | | | | |
| | | | | | | |

3,598

0.160

Logarithmic Water Pattern

20. Resistivity (Measured)

Calcium Sulfate Solubility @ 90 F.

ರ 1,000 100 10 1 10 100 1,000 10,000 g Sa Μg Fe

PROBABLE MINERAL COMPOSITION

Ohm/Meters

@ 92

Degrees (F)

| COMPOUND | Eq. Wt. | X | MEQ/L | = | mg/L | | |
|-----------|---------|----|--------|---|--------|--|--|
| Ca(HCO3)2 | 81.04 | Х | 12.38 | = | 1,003 | | |
| CaSO4 | 68.07 | Х | 50.40 | = | 3,431 | | |
| CaCl2 | 55.50 | Х | 56.62 | = | 3,143 | | |
| Mg(HCO3)2 | 73.17 | Х | 0.00 | = | 0 | | |
| MgSO4 | 60.19 | X. | 0.00 | = | 0 | | |
| MgCl2 | 47.62 | Х | 109.55 | = | 5,217 | | |
| NaHCO3 | 84.00 | Х | 0.00 | = | 0 | | |
| NaSO4 | 71.03 | Х | 0.00 | = | 0 | | |
| NaCl | 58.46 | Х | 509.89 | = | 29,808 | | |
| | | | | | | | |

Analytical Laboratory Report for:

BJ Chemical Services

Account Representative: Lavell Hanson

Cimarex

Production Water Analysis

Listed below please find water analysis report from: Mallon 34, #9 (BOME SPRING)

Lab Test No:

2008115458

Sample Date:

04/14/2008

Specific Gravity: 1.159

TDS:

243395

:Ha

5.10

Resistivity:

.10 @ 70F

ohms/M

| Cations: | mg/L | as: | |
|------------------|--------|-----------------------|--|
| Calcium | 25380 | (Ca ^{**}) | |
| Magneslum | 4708 | (Mg ^{**)} | |
| Sodium | 45494 | (Na [†]) | |
| ∄ron- | 27.33 | (Fe) | |
| Potassium | 1406.2 | (K') | |
| Barlum | 1.03 | (Ba ^{**}) | |
| Strontlum | 665.65 | (Sr ^{**}) | |
| Manganese | 2.53 | (Mn ⁺) | |
| Anlons: | mg/L | as: | |
| Blcarbonate | 61 | (HCO ₂) | |
| Sulfate | 550 | (SO ₄) | |
| Chloride | 165100 | (CI) | |
| Gases: | | · ₹ ₹ / | |
| Carbon Dioxide | 510 | (CO ₂) | |
| Hydrogen Sulfide | 2 | (H _s S) | |

Lab Comments:

FORMATION BONE SPRINGS

Clmarex

Lab Test No: 2008115458 DownHole SATTM Scale Prediction @ 170 deg. F



| Mineral Scale | Saturation Index | Momentary Excess (lbs/1000 bbls) | | |
|----------------------|------------------|-------------------------------------|--|--|
| Calcite (CaCO3) | .0198 | 00117 | | |
| Aragonite (CaCO3) | .0161 | 00144 | | |
| Witherite (BaCO3) | < 0.001 | -31.94 | | |
| Strontianite (SrCO3) | < 0.001 | 684 | | |
| Magnesite (MgCO3) | .0111 | 00176 | | |
| Anhydrite (CaSO4) | .697 | -6.14 | | |
| Gypsum (CaSO4*2H2O) | .478 | -17.47 | | |
| Barite (BaSO4) | .0144 | -21.68 | | |
| Celestite (SrSO4) | .0331 | -326 | | |
| Silica (SiO2) | .0 | -81.58 | | |
| Brucite (Mg(OH)2) | < 0.001 | 102 | | |
| Magnesium silicate | 0 | -125.21 | | |
| Siderite (FeCO3) | .00966 | 00279 | | |
| Halite (NaCl) | .207 | -81525 | | |
| Thenardite (Na2SO4) | < 0.001 | -95756 | | |
| Iron sulfide (FeS) | .0078 | -2.91 | | |

Interpretation of DHSat Results:

The Saturation Index is calculated for each mineral species independently and is a measure of the degree of supersaturation (driving force for precipitation) under the conditions modeled. This value ranges from 0 to infinity with 1.0 representing a condition of equilibrium where scale will neither dissolve nor precipitate. Values less than 1.0 are undersaturated and values greater than 1.0 are supersaturated. The scale is logarithmic, i.e. a Saturation index of 3 is 10 times more saturated than a value of 2.

The Momentary excess is a measure of how much scale would have to precipitate to bring the system back to a non-scaling condition. This value ranges from negative (dissolving) to positive (precipitating) values. The Momentary Excess represents the amount of scale possible while the Saturation Level represents the probability that scale will form.

Analytical Laboratory Report for:

BJ Chemical Services

Account Representative: Lavell Hanson

Production Water Analysis

Listed below please find water analysis report from: Mallon 34, #12 (DELA whRE)

Lab Test No:

2008115459

Sample Date:

04/14/2008

Specific Gravity: 1.132

Cimarex

201754

TDS: pH:

5.50

| Catlons: | mg/L | as: |
|------------------|-----------------|---------------------------------|
| Calcium | 24763 | (Ca ^{**}) |
| Magneslum | 5150 | (Mg ⁺⁺) |
| Sodium | 45325 | (Na ⁺) |
| Iron | 43.09 | (Fe ⁺⁺) |
| Potassium | 1391.0 | (K') |
| Barlum | 0.81 | (Ba [*]) |
| Strontlum | 620:59 | (Sr ^{**}) |
| Manganese | , 2.12 : | (Mn ⁻¹) |
| Anions: | mg/L | as: |
| Bicarbonate | 183 | (HCO ₃) |
| Sulfate | 975 | (SO ₂ ¹) |
| Chloride | 123300 | (CI) |
| Gases: | | (C.) |
| Carbon Dioxide | 300 | (CO ₂) |
| Hydrogen Sulfide | 2 | (H _s S) |

Lab Comments:

FORMATION DELAWARE

Cimarex

Lab Test No: 2008115459

DownHole SATTM Scale Prediction @ 170 deg. F



| Mineral Scale | Saturation Index | Momentary Excess (lbs/1000 bbls) | |
|----------------------|------------------|-------------------------------------|--|
| Calcite (CaCO3) | .149 | 0015 | |
| Aragonite (CaCO3) | .121 | 0019 | |
| Witherite (BaCO3) | < 0.001 | -31.37 | |
| Strontianite (SrCO3) | < 0.001 | 705 | |
| Magnesite (MgCO3) | .0852 | 00237 | |
| Anhydrite (CaSO4) | 1:18 | 4.91 | |
| Gypsum (CaSO4*2H2O) | .882 | -4:85 | |
| Barite (BaSO4) | .0295 | -12.7 | |
| Celestite (SrSO4) | .0803 | -285.98 | |
| Silica (SiO2) | 0 | -91.3 | |
| Brucile (Mg(OH)2) | < 0.001 | 125 | |
| Magnesium silicate | 0 | -137.75 | |
| Siderite (FeCO3) | .174 | 00144 | |
| Halite (NaCl) | .0936 | -116730 | |
| Thenardite (Na2SO4) | < 0.001 | -94673 | |
| Iron sulfide (FeS) | .0713 | -1.21 | |

Interpretation of DHSat Results:

The Saturation Index is calculated for each mineral species independently and is a measure of the degree of supersaturation (driving force for precipitation) under the conditions modeled. This value ranges from 0 to infinity with 1.0 representing a condition of equilibrium where scale will neither dissolve nor precipitate. Values less than 1.0 are undersaturated and values greater than 1.0 are supersaturated. The scale is logarithmic, i.e. a Saturation index of 3 is 10 times more saturated than a value of 2.

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600 N. Marienfeld St. ♦ Suite 600 ♦ Midland, TX 79701 ♦ (432) 620-1938 ♦ Fax (432) 620-1940 A subsidiary of Cimarex Energy Co. • A NYSE Listed Company • "XEC"

Date: October 26, 2010

Bureau of Land Management 620 E Greene St. Carlsbad, New Mexico 88220

Re: Pipeline Deep Unit No. 1 API No. 30-025-24470 SWD Administrative Application

Ladies and Gentlemen:

Enclosed please find a copy of Form C-108 which has been submitted with supporting documents to the New Mexico Oil Conservation Division. This letter is notice only. No action is required unless you have questions or objections.

This application requests authority to inject produced water into the Cimarex operated Pipeline Deep Unit No. 1 well located at 1980' FSL & 1650' FEL of section 17-19S-34E, Lea County New Mexico. Cimarex proposes to inject into the Delaware formation of the Permian system through an open hole interval of 6010'-6900'. The initial maximum injection pressure proposed is 1200 psi with a maximum rate of 3000 barrels of water per day.

If you have any questions regarding this application please feel free to call or write the undersigned.

Objections to this application or requests for hearing must be filed with the Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, New Mexico 87505 within 15 days of receipt of this letter.

Sincerely,

Zem Farin

Zeno Farris

Manager, Operations Administration

Permian Basin Region Phone: 432-620-1938

Fax: 432-620-1940

Package ID: 9171082133393767847449
Destination ZIP Code: 88220
Customer Reference:

E-CERTIFIED
1ST CLASS FLAT

Recipient: BLM Address:

PBP Account #: 35644897 Serial #: 3132785 OCT 26 2010 2:37P



600 N. Marienfeld St. ♦ Suite 600 ♦ Midland, TX 79701 ♦ (432) 620-1938 ♦ Fax (432) 620-1940 A subsidiary of Cimarex Energy Co. • A NYSE Listed Company • "XEC"

Date: October 26, 2010

Amtex Energy Inc. P.O. Box 3418 Midland, TX 79702

Re: Pipeline Deep Unit No. 1 API No. 30-025-24470 SWD Administrative Application

Ladies and Gentlemen:

Enclosed please find a copy of Form C-108 which has been submitted with supporting documents to the New Mexico Oil Conservation Division. This letter is notice only. No action is required unless you have questions or objections.

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Address:

Sincerely,

Zeno Farris

Manager, Operations Administration

Zeno Farin

Permian Basin Region Phone: 432-620-1938

Fax: 432-620-1940

| Ē | Package ID: 9171082133393767847456 |
|-------------|--|
| မ္တန္တ | Destination ZIP Code: 79702 |
| eg e | Package ID: 9171082133393767847456 Destination ZIP Code: 79702 Customer Reference: |
| <u>}=</u> ₹ | Basinians Amstor |

1ST CLASS FLAT

E-CERTIFIED

PBP Account #: 35644897 Serial #: 3132785

OCT 26 2010 2:37P



600 N. Marienfeld St. ♦ Suite 600 ♦ Midland, TX 79701 ♦ (432) 620-1938 ♦ Fax (432) 620-1940 A subsidiary of Cimarex Energy Co. • A NYSE Listed Company • "XEC"

Date: October 26, 2010

Devon Energy Production Company, LP 20 N. Broadway Oklahoma City, OK 73102

Re: Pipeline Deep Unit No. 1 API No. 30-025-24470 SWD Administrative Application

Ladies and Gentlemen:

Enclosed please find a copy of Form C-108 which has been submitted with supporting documents to the New Mexico Oil Conservation Division. This letter is notice only. No action is required unless you have questions or objections.

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Sincerely,

Zeno Fari

Zeno Farris

Manager, Operations Administration

Permian Basin Region Phone: 432-620-1938

Fax: 432-620-1940

Package ID: 9171082133393767847470
Destination ZIP Code: 73102
Customer Reference:
Recipient:

E-CERTIFIED 1ST CLASS FLAT

PBP Account #: 35644897 Serial #: 3132785 OCT 26 2010 2:36P



600 N. Marienfeld St. ♦ Suite 600 ♦ Midland, TX 79701 ♦ (432) 620-1938 ♦ Fax (432) 620-1940 A subsidiary of Cimarex Energy Co. • A NYSE Listed Company • "XEC"

Date: October 26, 2010

Linn Operating, Inc. 600 Travis Suite 5100 Houston, TX 77002

Re: Pipeline Deep Unit No. 1 API No. 30-025-24470 SWD Administrative Application

Ladies and Gentlemen:

Enclosed please find a copy of Form C-108 which has been submitted with supporting documents to the New Mexico Oil Conservation Division. This letter is notice only. No action is required unless you have questions or objections.

This application requests authority to inject produced water into the Cimarex operated Pipeline Deep Unit No. 1 well located at 1980' FSL & 1650' FEL of section 17-19S-34E, Lea County New Mexico. Cimarex proposes to inject into the Delaware formation of the Permian system through an open hole interval of 6010'-6900'. The initial maximum injection pressure proposed is 1200 psi with a maximum rate of 3000 barrels of water per day.

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Sincerely,

Zeno Farris

Manager, Operations Administration

Zeno Fann

Permian Basin Region Phone: 432-620-1938

Fax: 432-620-1940

Package ID: 9171082133393767847432 Destination ZIP Code: 77002

Customer Reference:

Recipient: Line Operating

E-CERTIFIED

1ST CLASS FLAT

PBP Account #: 35644897 Serial #: 3132785 OCT 26 2010 2:37P

Affidavit of Publication

State of New Mexico, County of Lea.

I, DORA YANEZ
OFFICE MANAGER
of the Hobbs News-Sun, a
newspaper published at Hobbs, New
Mexico, do solemnly swear that the
clipping attached hereto was
published in the regular and entire
issue of said newspaper, and not a
supplement thereof for a period

of 1 issue(s).
Beginning with the issue dated
October 10, 2010
and ending with the issue dated

October 10, 2010

OFFICE MANAGE

Sworn and subscribed to before me this 13th day of October, 2010

Notary Public

My commission expires

June 16, 2013 (Seal)



OFFICIAL SEAL
Linda M Jones
NOTARY PUBLIC - STATE OF NEW MEXICO

My Commission Expires:

This newspaper is duly qualified to publish legal notices or advertisments within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said publication has been made.

LEGAL NOTICE OCTOBER 10, 2010

Cimarex Energy Co. of Colorado, 600 N Marienfeld St. Ste. 600, Midland, Texas 79701 is filing an Application for Authorization to Inject (Oil Conservation Division Form C-108) with the New Mexico Oil Conservation Division seeking administrative approval for a salt water disposal well. The proposed well, the Pipeline Deep Unit No. 1 is located 1980 feet FSL and 1650 feet FEL of Section 17, Township 19 South, Range 34 East, NMPM Lea County, New Mexico. The source of the disposal water will be Cimarex operated wells in the area that produce from the Bone Spring, and Morrow formations. The disposal water will be injected into the Delaware formation of the Permian system at a depth interval of 6010 feet to 6900 feet at a maximum injection pressure of 1200 PSI (Subject to increase after Division approved testing) and a maximum rate of 3000 BWPD. Any interested party with questions or Icomments may contact Zeno Farris at Cimarex Energy Co. of Colorado, 600 N Marienfeld St, Ste. 600, Midland TX 79701 or call (432) 620-1938. Objections to this application or requests for hearing must be filed with the Oil Conserva-Ition Division, 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505, within fifteen days of the date of the publication of this notice. . #26151

02108629

00060898

LACI LUIG CIMAREX ENERGY CO. 600 N. MARIENFELD STREET SUITE 600 MIDLAND, TX 79701

Jones, William V., EMNRD

From:

Jones, William V., EMNRD

Sent:

Wednesday, October 27, 2010 3:09 PM

To:

'Zeno Farris'

Cc:

Brooks, David K., EMNRD; Kautz, Paul, EMNRD; Hill, Larry, EMNRD

Subject:

Disposal application from Cimarex Energy Co of Colorado: Pipeline Deep Unit Federal #1

30-025-24470 Delaware open hole from 6010 to 6900

Hello Zeno:

Just reviewed this application.

Unless an objection is received the only items I see are some AOR issues.

Por in Required often Parmet Would you please run a bradenhead survey on 30-025-02387 and send a copy of the results here?

b. Please send a quick, approximate log analysis of the deeper Delaware interval from 6900 to 7960 in 30-025-26098 with estimate of potential productivity.

c. The 30-025-02388 is very close to the proposed well, and has very scarce data as to plugs set over this interval. From your diagram it seems this well would need to be re-entered and replugged to isolate this proposed 6010 to 6900 feet disposal interval. This could be a condition of the SWD permit – let me know if Cimarex agrees to this or wants to go another route.

Regards,

William V Jones, P.E. Engineering, Oil Conservation Division 1220 South St. Francis Drive, Santa Fe, NM 87505 Tel 505.476.3448 ~ Fax 505.476.3462



Jones, William V., EMNRD

From: Jones, William V., EMNRD

Sent: Wednesday, November 17, 2010 11:28 AM

To: 'Zeno Farris'

Cc: Ezeanyim, Richard, EMNRD

Subject: RE: Disposal application from Cimarex Energy Co of Colorado: Pipeline Deep Unit Federal #1

30-025-24470 Delaware open hole from 6010 to 6900

Zeno:

I have this ready to release... but still need item b. below.

Regards,

Will Jones
New Mexico
Oil Conservation Division
Images Contacts

From: Jones, William V., EMNRD

Sent: Wednesday, October 27, 2010 3:09 PM

To: 'Zeno Farris'

Cc: Brooks, David K., EMNRD; Kautz, Paul, EMNRD; Hill, Larry, EMNRD

Subject: Disposal application from Cimarex Energy Co of Colorado: Pipeline Deep Unit Federal #1 30-025-24470

Delaware open hole from 6010 to 6900

Hello Zeno:

Just reviewed this application.

Unless an objection is received the only items I see are some AOR issues.

- a. Would you please run a bradenhead survey on 30-025-02387 and send a copy of the results here?
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Regards,

William V Jones, P.E.
Engineering, Oil Conservation Division
1220 South St. Francis Drive, Santa Fe, NM 87505
Tel 505.476.3448 ~ Fax 505.476.3462



Jones, William V., EMNRD

From:

Zeno Farris [zfarris@cimarex.com] Tuesday, December 07, 2010 8:01 AM

Sent: To:

Jones, William V., EMNRD

Cc:

Natalie Krueger

Subject:

FW: Amtex Energy, Inc. Lea State NCT A #3

Attachments:

SCAN0001.pdf

Will, below is log analysis for requested well and re-plugging sundry submitted to BLM for the Mescalero Unit Fed # 2. Let me know if you need additional information. Thanks

From: Tim Miller

Sent: Tuesday, December 07, 2010 8:50 AM

To: Zeno Farris; Chad McGehee; Rebecca Morrison; Jesse Parkison

Subject: Amtex Energy, Inc. Lea State NCT A #3

The Lea ED State NCT A #3--16-19S-34E (1980 FSL & 660 FWL): 30-025-260980000 was analyzed on logs for possible productivity in the Delaware interval from 6900'-7950'. The Lea ED State NCT A #3 was broken into 6 sections. After running log analysis in the Delaware from 6900'-7950' the potential for productivity is non-existent. The water saturations in the Lea ED State NCT A #3 run from 61%-100%.

Lea ED State NCT A #3

- 1. 6900-6922: Sandstone.
 - a. Porosity=10.6%.
 - b. Resistivity=4.5 ohms.
 - c. SW=75%.
 - d. RW=.035.
- 2, 6922-6944: Dolomite.
 - a. Porosity=6.5%.
 - b. Resistivity=16.8 ohms.
 - c. SW=70%.
 - d. RW=.035.
- 3. 6944-7300: Sandstone.
 - a. Porosity=11.6%.
 - b. Resistivity=2.5 ohms.
 - c. SW=92%.
 - d. RW=.035.
- 4. 7300-7500: Sandstone.
 - a. Porosity=13%.
 - b. Resistivity=2 ohms.
 - c. SW=89%.
 - d. RW=.035.
- 5. 7500-7700: Sandstone.
 - a. Porosity=11%.
 - b. Resistivity=2 ohms.
 - c. SW=100%.
 - d. RW=.035.
- 6. 7700-7950: Sandstone.
 - a. Porosity=14.5%.
 - b. Resistivity=3.6 ohms.

- c. SW=61%.
- d. RW=.035.

H. Tim Miller--Senior Geologist 12/7/2010

Cimares Energy Co. Senior Geologist--Permian New Mex

(432) 571-7894 Work (432) 230-5928 Mobile htmiller @cimarex.com 600 N. Marienfeld St. Midland, TX 79701

| Injection Permit Checklist | (09/27/2010) | 12/8/ | o | <u> </u> | |
|---|-------------------------|--|---------------------|--------------------|------------------------|
| | 1755 | 41 | ber | (O(11/D) | |
| WFX PMX | IPErine Days t | Permit Date 1 | UIC QE | NO NO |) |
| | | 7/10 | - | 7 | 7. 1000) |
| API Num: 30-0 25 - 244 Footages 1980 FSL/163 | | 700 | | UIC primacy March | (7, 1982) |
| | TIP O Da | it Sec 17 Tsp | 112 | Rge 34E County | |
| General Location: | NE OF P | 200 | | 7 E | ~ |
| 11261 | trengy Co. of | 8/1.0- | Contact | ~ W | vis |
| | E 5.9 Compliance (Wells | | (Finan Ass | sur) OK (\$ 5.9 OK | OF |
| | Status: The Merica | | 2w 5 7 | - ETUBY | |
| Planned Work to Well: Pull. | OLD 512 RIDTE | 56 C 47 C . | | | |
| | After Conversion Sizes | Elogs in Imaging File: Setting | Stage | Cement | Determination |
| Well Details: | HolePipe | Depths | Tool | Sx or Cf | Method |
| NewExistingSurface NewExistingInterm | 15 113/4 | 5352 | , | <u>400</u> 500 | CIRC |
| New Existing LongSt | 77/8 5/2 | 6010 | | 600 | CIRC |
| New_Existing Liner | | 8 | | 1.0 | |
| NewExisting OpenHole | 60 | 10-6900 | | Buto | TP |
| Depths/Formations: | Depths, Ft. | Formation | Tops? | 4 | |
| Formation(s) Above | 5,580 | Del | | | |
| Injection TOP: | 6010 | Chary | Max. PSI | 202 OpenHole L | Perfs |
| Injection BOTTOM: | 6900 | Bely | Tubing Size | سرار | 5900 |
| Formation(s) Below | 7952 | Bowstry | | | CHILLIA COSE? |
| Capitan Reef? | tash?Noticed? | N [\ \text{\tint{\text{\tint{\text{\tin}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tex{\tex | d? 1] Sa | lado Top/Bot 850 | Cliff, House? |
| Fresh Water: Depths: | Pormation O | Fillola Wells? | NO An | alysis?Affirmative | Statement |
| Disposal Fluid Analysis? Sources: Boxe 51/2 Western (in Compatible) | | | | | |
| Disposal Interval: Analysis? Production Potential/Testing: No. 5 15 0005 | | | | | |
| Notice: Newspaper Date Out Surface Owner BLM Mineral Owner(s) | | | | | |
| RULE 26.7(A) Affected Persons: AM TEX Lim Of Down | | | | | |
| AOR: Maps? Well List? Producing in Interval? Wellbore Diagrams? | | | | | |
| Active Wells-? Repairs? MhichWells? | | | | | |
| | | | | | |
| Questions: Pt No 35-025-02387 Request Sent Reply: 10/4/2010/4:35 PM Repairs? Dwinch Wells? 35-025-02387 Page 1 of 1 SWD_Checklist.xls/List | | | | | |
| 10/4/2010/4:35 PM | Me w/ Jan | Page 1 of 1 | 2387 | Request Sent | SWD_Checklist.xls/List |
| | _ , ~ | | | | |