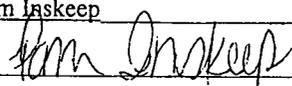


APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE:  Secondary Recovery  Pressure Maintenance  Disposal  
 Storage  
Application qualifies for administrative approval?  Yes  No
- II. OPERATOR: BTA OIL PRODUCERS LLC  
ADDRESS: 104 S Pecos, Midland, TX 79701  
CONTACT PARTY: Pam Inskeep PHONE: 432-682-3753
- 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  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:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
  2. Whether the system is open or closed;
  3. Proposed average and maximum injection pressure;
  4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
  5. 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).  
Well logs were filed with the Division with the original completion.
- \*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: Pam Inskeep TITLE: Regulatory Administrator

SIGNATURE:  DATE: 02/28/2014

E-MAIL ADDRESS: pinskeep@btaoil.com

\* If the information required under Sections VI, VIII, X, and XI above has been p  
Please show the date and circumstances of the earlier submittal: \_\_\_\_\_

Oil Conservation Division  
Case No. 15159  
Exhibit No. 1

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

### 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.

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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.

## INJECTION WELL DATA SHEET

OPERATOR: BTA OIL PRODUCERS LLCWELL NAME & NUMBER: 9418 JV-P Vaca Draw #1WELL LOCATION: 1980' FSL & 1980' FWL, UL K, Sec. 10, T25S, R33E, Lea County, NM  
FOOTAGE LOCATION                      UNIT LETTER                      SECTION                      TOWNSHIP                      RANGEWELLBORE SCHEMATICWELL CONSTRUCTION DATASurface CasingHole Size: 17-1/2                      Casing Size: 13-3/8"Cemented with: 580 sx.                      or \_\_\_\_\_ ft<sup>3</sup>Top of Cement: surface                      Method Determined: circIntermediate CasingHole Size: 11"/7-7/8"                      Casing Size: 8-5/8"/5-1/2"Cemented with: 1925/1850 sx.                      or \_\_\_\_\_ ft<sup>3</sup>Top of Cement: surface/6980 \*                      Method Determined: circ/CBL

\*Comp rept showed TOC @ 3440' by TS. We have a CBL that shows TOC @ 6980'

Production CasingHole Size: 4-3/4"                      Casing Size: 2-7/8"Cemented with: 300 sx.                      or \_\_\_\_\_ ft<sup>3</sup>Top of Cement: surface                      Method Determined: circTotal Depth: 14162'Injection IntervalPropose 5056 feet to 6770 Perf

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2-7/8" Lining Material: internally plastic-coated

Type of Packer: Arrowset II

Packer Setting Depth: 6900'

Other Type of Tubing/Casing Seal (if applicable): CIBP @ ±13420', cap w/40' cmt  
CIBP @ ±12150', cap w/40' cmt  
Perf/Sqz ±6940'(12 holes) w1000 sx  
CIBP @ ±6930', cap w/40' cmt

Additional Data

1. Is this a new well drilled for injection? Yes  No  
If no, for what purpose was the well originally drilled? Oil & Gas Producer, 1999

2. Name of the Injection Formation: Delaware (Bell Canyon/Upper Cherry Canyon)

3. Name of Field or Pool (if applicable): SWD; Delaware

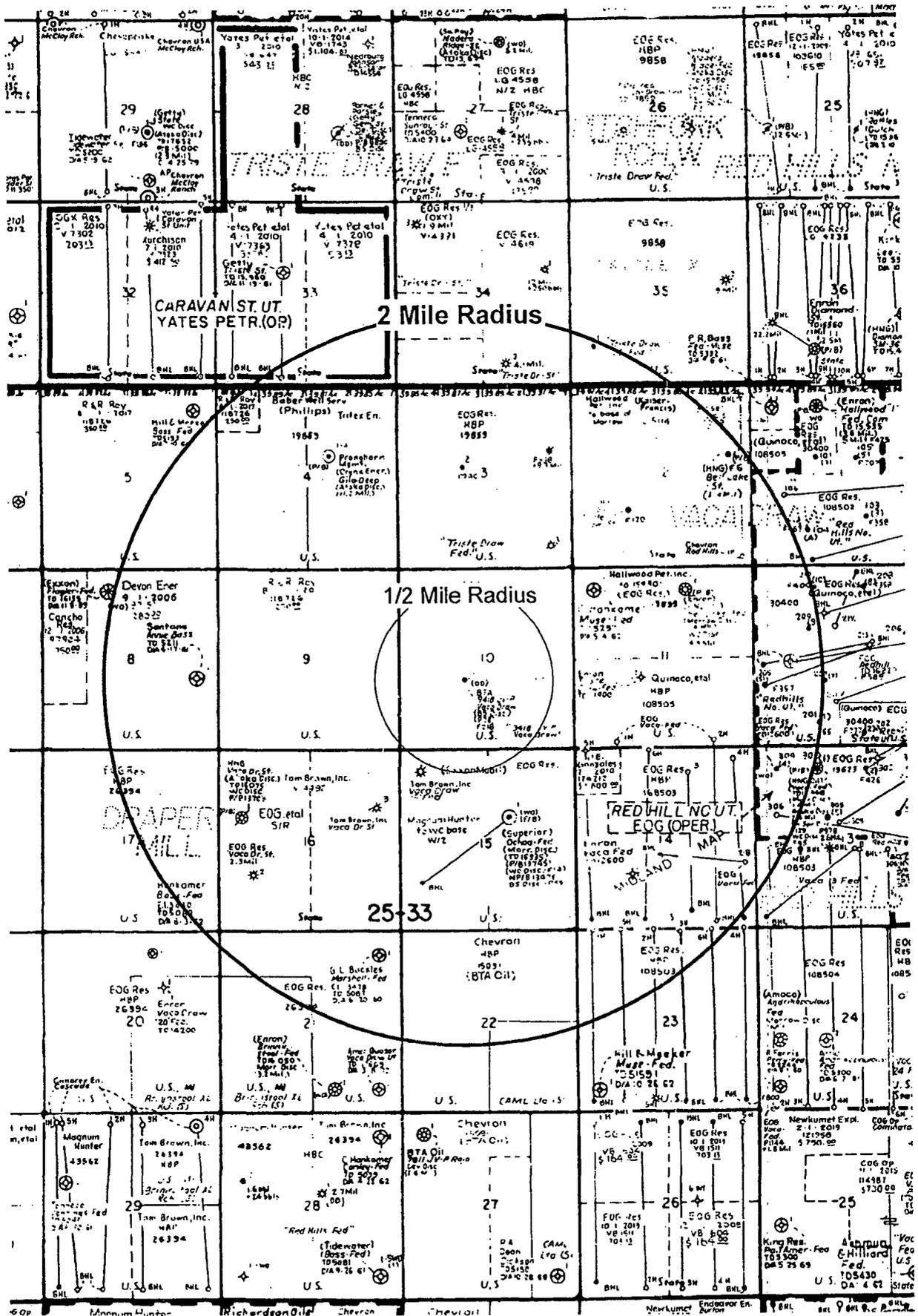
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. Yes, see detail in VI

AOR Well Data

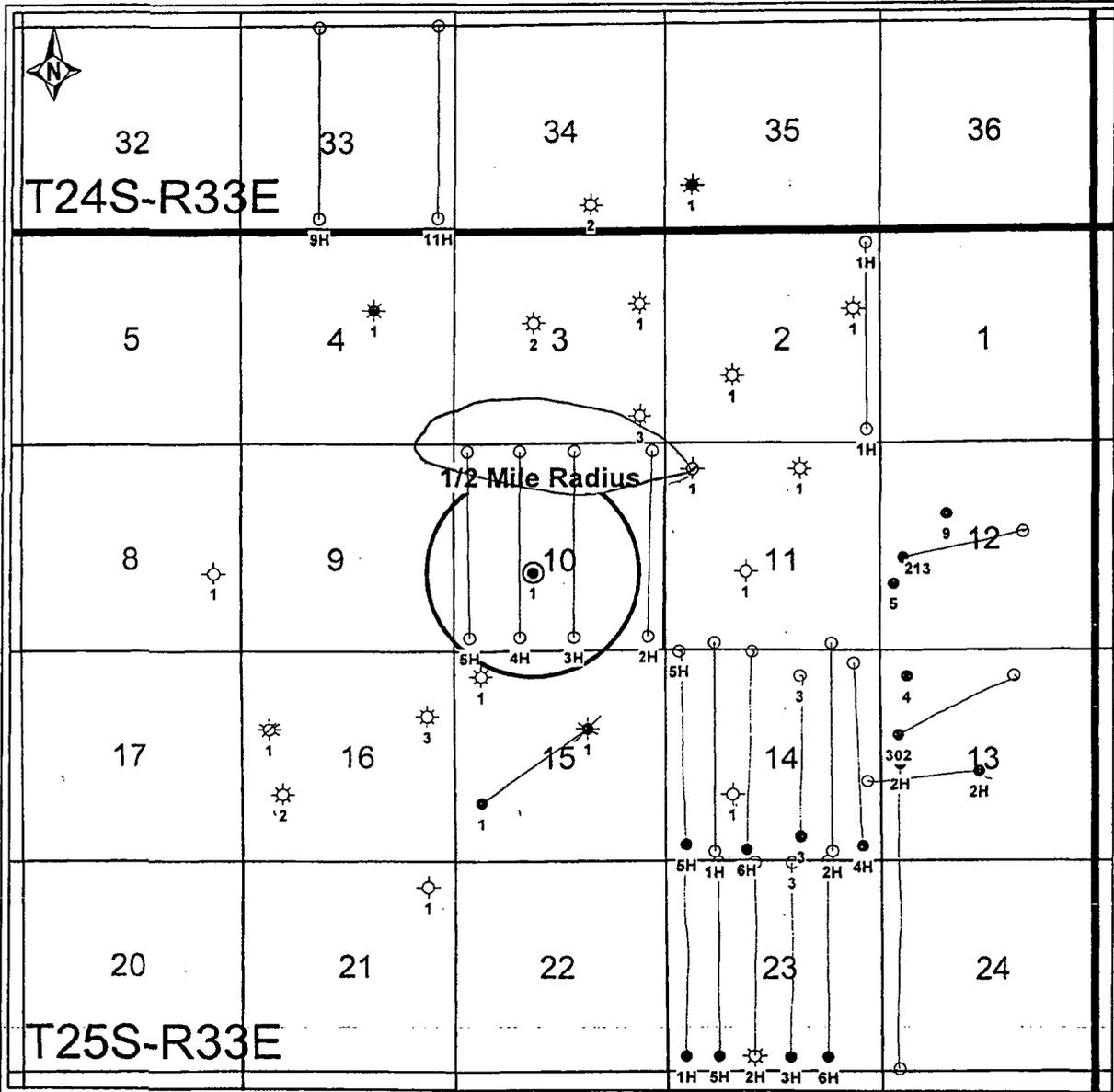
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: \_\_\_\_\_

Bell Canyon 5045'; Cherry Canyon 6376'; Brushy Canyon 7581'; Bone Spring 9218';

Wolfcamp 12432'



**BTA Oil Producers, LLC - 9418 JV-P Vaca Draw #1 WIW**  
**Wells within 1/2 mile and 2 mile radius**



|  |  |
|--|--|
| <b>BTA Oil Producers, LLC</b>  |  |
| <b>9418 JV-P Vaca Draw #1</b>  |  |
| 1/2 Mile Radius<br>Lea Co., New Mexico   |  |
| <p><b>WELL SYMBOLS</b></p> <ul style="list-style-type: none"> <li>○ Location Only</li> <li>● Oil Well</li> <li>☼ Gas Well</li> <li>⊛ Oil &amp; Gas Well</li> <li>○ Dry Hole</li> <li>⊛ Plugged &amp; Abandoned Gas Well</li> <li>⊛ Plugged And Abandoned Oil and Gas Well</li> <li>⊛ Oil &amp; Gas Well</li> </ul> |  |
| <p><b>REMARKS</b></p> <p>9418 JV-P Vaca Draw #1 Highlighted in Yellow<br/>         1/2 Mile Radius Indicated in Red<br/>         Only Wells Within 2 Mile Radius Shown on Map<br/>         See Exhibit "A" For Well List</p>   |  |
| By: JHB  |  |
| <p>0                      4,000                      8,000<br/> <b>FEET</b></p>  |  |
| February 19, 2014  |  |

HALF MILE RADIUS

| API #          | Operator              | Well Name           | Well No. | TD    | Sec | Tw  | Rng | Footage Calls       | Spud Date  | Comp Date | Status   | Prod Fm  |
|----------------|-----------------------|---------------------|----------|-------|-----|-----|-----|---------------------|------------|-----------|----------|----------|
| 30025336390000 | BTA OIL PRODUCERS LLC | 9418 JV-P VACA DRAW | 1        | 12575 | 10  | 25S | 33E | 1980'FSL & 1980'FWL | 11/21/1996 | 2/10/1997 | Oil      | WOLFCAMP |
| 30025336390001 | BTA OIL PRODUCERS LLC | 9418 JV-P VACA DRAW | 1        | 14162 | 10  | 25S | 33E | 1980'FSL & 1980'FWL | 5/12/1999  | 7/5/1999  | Oil      | WOLFCAMP |
| 30025416220000 | BTA OIL PRODUCER LLC  | VACA DRAW 9418 JV-P | 3H       |       | 10  | 25S | 33E | 190'FNL & 2310'FEL  |            |           | Location |          |
| 30025416230000 | BTA OIL PRODUCER LLC  | VACA DRAW 9418 JV-P | 4H       |       | 10  | 25S | 33E | 190'FNL & 1650'FWL  |            |           | Location |          |
| 30025416240000 | BTA OIL PRODUCER LLC  | VACA DRAW 9418 JV-P | 5H       |       | 10  | 25S | 33E | 190'FNL & 330'FWL   |            |           | Location |          |

BTA Oil Producers LLC  
 Application for Authorization to Inject  
 9418 JV-P Vaca Draw #1  
 1980' FSL & 1980' FWL  
 Section 10, T25S, R33E  
 Lea County, NM

VI AOR Well Data

| Well Name  | Operator              | Location  | Type of Well | Spud Date         | Comp Date    | TD P8TD                                 | Comp Interval | Producing Formation | Casing Program               |               |              |                          |
|--|-----------------------|---|--------------|-------------------|--------------|---|---------------|---------------------|------------------------------|---------------|--------------|--------------------------|
|  |                       |   |              |                   |              |   |               |                     | Casing                       | Depth         | Amt Cmt      | Circ                     |
| 9418 JV-P Vaca Draw #1<br>30-025-33639                                     | BTA Oil Producers LLC | 1980' FSL & 1980' FWL<br>10-25S-33E                               | Gas          | 11/21/1996        | 2/8/1997     | 12575' MD                               | 12196-12242'  | Bone Spring         | 13-3/8"                      | 715           | 580          | Circ                     |
|  |                       |   | Oil          |                   | Rec 7/4/1999 | 12470' P8TD<br>14162' MD<br>14093' P8TD | 13501-14060'  | Wolfcamp            | 8-5/8"<br>5-1/2"             | 5000<br>12575 | 1925<br>1850 | Circ<br>6980*            |
| * Comp rept showed TOC @ 3440' by TS. We have a CBL that shows TOC @ 6980' |                       |   |              |                   |              |   |               |                     |                              |               |              |                          |
| 9418 JV-P Vaca Draw #3H<br>30-025-41622                                    | BTA Oil Producers LLC | 190' FNL & 2310' FEL SL<br>330' FSL & 2260' FEL BHL<br>10-25S-33E | Oil          | New (not drilled) |              | 13942' MD                               | 9695-13942'   | Bone Spring         | 13-3/8"                      | 1220          | 900          | Circ                     |
|  |                       |   |              |                   |              | 9380' TVD<br>Proposed                   | Proposed      |                     | 9-5/8"<br>5-1/2"<br>Proposed | 5090<br>13942 | 1250<br>1950 | Circ<br>4890<br>Proposed |
| 9418 JV-P Vaca Draw #4H<br>30-025-41624                                    | BTA Oil Producers LLC | 190' FNL & 1650' FWL SL<br>330' FSL & 1650' FWL BHL<br>10-25S-33E | Oil          | New (not drilled) |              | 13981' MD                               | 9695-13981'   | Bone Spring         | 13-3/8"                      | 1220          | 900          | Circ                     |
|  |                       |   |              |                   |              | 9450' TVD<br>Proposed                   | Proposed      |                     | 9-5/8"<br>5-1/2"<br>Proposed | 5100<br>13981 | 1250<br>1950 | Circ<br>4900<br>Proposed |
| 9418 JV-P Vaca Draw #5H<br>30-025-41625                                    | BTA Oil Producers LLC | 190' FNL & 330' FWL SL<br>330' FSL & 380' FWL BHL<br>10-25S-33E   | Oil          | New (not drilled) |              | 13972' MD                               | 9695-13972'   | Bone Spring         | 13-3/8"                      | 1190          | 900          | Circ                     |
|  |                       |   |              |                   |              | 9450' TVD<br>Proposed                   | Proposed      |                     | 9-5/8"<br>5-1/2"<br>Proposed | 5050<br>13972 | 1250<br>1950 | Circ<br>4850<br>Proposed |

9

## Exhibit "A"

| API #          | Operator                  | Well Name               | Well No. | Sec | Twn | Rng | Footage Calls       |
|----------------|---------------------------|-------------------------|----------|-----|-----|-----|---------------------|
| 30025271780000 | CHEVRON MIDCONTINENT LP   | BELL LAKE '2' STATE     | 1        | 2   | 25S | 33E | 1980'FNL & 660'FEL  |
| 30025346040000 | EOG RES. INC.             | TRISTE DRAW '2' STATE   | 1        | 2   | 25S | 33E | 1650'FSL & 1650'FWL |
| 30025415460000 | CHEVRON USA INC.          | RED HILLS 2-25-33       | 1H       | 2   | 25S | 33E | 330'FSL & 340'FEL   |
| 30025415460100 | CHEVRON USA INC.          | RED HILLS 2-25-33       | 1H       | 2   | 25S | 33E | 330'FSL & 340'FEL   |
| 30025345180000 | ENRON OIL & GAS CO        | TRISTE DRAW '3' FEDERAL | 1        | 3   | 25S | 33E | 1826'FNL & 660'FEL  |
| 30025345180001 | EOG RES. INC.             | TRISTE DRAW '3' FEDERAL | 1        | 3   | 25S | 33E | 1826'FNL & 660'FEL  |
| 30025345850000 | EOG RES. INC.             | TRISTE DRAW '3' FEDERAL | 2        | 3   | 25S | 33E | 2310'FNL & 1980'FWL |
| 30025350720000 | EOG RES. INC.             | TRISTE DRAW '3' FEDERAL | 3        | 3   | 25S | 33E | 660'FSL & 660'FEL   |
| 30025308720000 | ENDURANCE RESOURCES LLC   | GILA '4' DEEP COM       | 1        | 4   | 25S | 33E | 1975'FNL & 1980'FEL |
| 30025308720001 | ENDURANCE RESOURCES LLC   | GILA '4' DEEP COM       | 1        | 4   | 25S | 33E | 1975'FNL & 1980'FEL |
| 30025336390000 | BTA OIL PRODUCERS LLC     | 9418 JV-P VACA DRAW     | 1        | 10  | 25S | 33E | 1980'FSL & 1980'FWL |
| 30025336390001 | BTA OIL PRODUCERS LLC     | 9418 JV-P VACA DRAW     | 1        | 10  | 25S | 33E | 1980'FSL & 1980'FWL |
| 30025416210000 | BTA OIL PRODUCER LLC      | VACA DRAW 9418 JV-P     | 2H       | 10  | 25S | 33E | 190'FNL & 330'FEL   |
| 30025416220000 | BTA OIL PRODUCER LLC      | VACA DRAW 9418 JV-P     | 3H       | 10  | 25S | 33E | 190'FNL & 2310'FEL  |
| 30025416230000 | BTA OIL PRODUCER LLC      | VACA DRAW 9418 JV-P     | 4H       | 10  | 25S | 33E | 190'FNL & 1650'FWL  |
| 30025416240000 | BTA OIL PRODUCER LLC      | VACA DRAW 9418 JV-P     | 5H       | 10  | 25S | 33E | 190'FNL & 330'FWL   |
| 30025267290000 | CHEVRON MIDCONTINENT LP   | BELL LAKE '11' FEDERAL  | 1        | 11  | 25S | 33E | 660'FNL & 1980'FEL  |
| 30025267290001 | HNG OIL COMPANY           | BELL LAKE '11' FEDERAL  | 1        | 11  | 25S | 33E | 660'FNL & 1980'FEL  |
| 30025410980000 | EOG RES. INC.             | VACA 11 FEDERAL COM     | 1H       | 11  | 25S | 33E | 170'FSL & 1200'FWL  |
| 30025415230000 | EOG RES. INC.             | VACA 11 FEDERAL         | 2H       | 11  | 25S | 33E | 170'FSL & 1200'FEL  |
| 30025378390000 | EOG RES. INC.             | VACA 14 FEDERAL         | 2H       | 14  | 25S | 33E | 1980'FSL & 330'FEL  |
| 30025393270000 | EOG RES. INC.             | VACA 14 FEDERAL         | 3        | 14  | 25S | 33E | 660'FNL & 1980'FEL  |
| 30025393270100 | EOG RES. INC.             | VACA 14 FEDERAL         | 3        | 14  | 25S | 33E | 660'FNL & 1980'FEL  |
| 30025398920000 | EOG RES. INC.             | VACA 14 FEDERAL         | 4H       | 14  | 25S | 33E | 330'FNL & 660'FEL   |
| 30025399430000 | EOG RES. INC.             | VACA '14' FEDERAL       | 6H       | 14  | 25S | 33E | 50'FNL & 2130'FWL   |
| 30025399440000 | EOG RES. INC.             | VACA '14' FEDERAL COM   | 5H       | 14  | 25S | 33E | 50'FNL & 330'FWL    |
| 30025399440100 | EOG RES. INC.             | VACA '14' FEDERAL COM   | 5H       | 14  | 25S | 33E | 50'FNL & 330'FWL    |
| 30025276230100 | EOG RES. INC.             | OCHOA FEDERAL           | 1        | 15  | 25S | 33E | 1980'FNL & 1980'FEL |
| 30025354450000 | CIMAREX ENERGY CO. OF CO. | VACA DRAW '15' FEDERAL  | 1        | 15  | 25S | 33E | 660'FNL & 660'FWL   |
| 30025346530000 | EOG RES. INC.             | VACA DRAW '16' STATE    | 2        | 16  | 25S | 33E | 1650'FSL & 990'FWL  |
| 30025349090000 | CIMAREX ENERGY CO. OF CO. | VACA DRAW '16' STATE    | 3        | 16  | 25S | 33E | 1650'FNL & 660'FEL  |

## Exhibit - Two Mile Radius Wells (to BTA 9418 JV-P Vaca Draw #1)

| API #          | Operator                | Well Name                  | Well No. | Sec | Twn | Rng | Footage Calls       | TOC         |
|----------------|-------------------------|----------------------------|----------|-----|-----|-----|---------------------|-------------|
| 30025416040000 | YATES PETRO. CORP.      | CARAVAN STATE UNIT         | 9H       | 33  | 24S | 33E | 50'FNL & 1930'FWL   | est. 4,700' |
| 30025416380000 | YATES PETRO. CORP.      | CARAVAN STATE UNIT         | 11H      | 33  | 24S | 33E | 15'FNL & 400'FEL    | est. 4,700' |
| 30025416410000 | YATES PETRO. CORP.      | CARAVAN STATE UNIT         | 9H       | 33  | 24S | 33E | 50'FNL & '1950'FWL  | est. 4,700' |
| 30025345720000 | EOG RES. INC.           | TRISTE DRAW '34' STATE COM | 2        | 34  | 24S | 33E | 660'FSL & 1883'FEL  | est. 4,500' |
| 30025347190000 | EOG RES. INC.           | TRISTE DRAW '35' FEDERAL   | 1        | 35  | 24S | 33E | 1150'FSL & 660'FWL  | 4,498'      |
| 30025347190001 | EOG RES. INC.           | TRISTE DRAW 35 FED         | 1        | 35  | 24S | 33E | 1150'FSL & 660'FWL  | 4,498'      |
| 30025271780000 | CHEVRON MIDCONTINENT LP | BELL LAKE '2' STATE        | 1        | 2   | 25S | 33E | 1980'FNL & 660'FEL  | est. 5,061' |
| 30025346040000 | EOG RES. INC.           | TRISTE DRAW '2' STATE      | 1        | 2   | 25S | 33E | 1650'FSL & 1650'FWL | 4,471'      |
| 30025415460000 | CHEVRON USA INC.        | RED HILLS 2-25-33          | 1H       | 2   | 25S | 33E | 330'FSL & 340'FEL   | est. 4,550' |
| 30025415460100 | CHEVRON USA INC.        | RED HILLS 2-25-33          | 1H       | 2   | 25S | 33E | 330'FSL & 340'FEL   | est. 4,550' |
| 30025345180000 | EOG RES. INC.           | TRISTE DRAW '3' FEDERAL    | 1        | 3   | 25S | 33E | 1826'FNL & 660'FEL  | 5,115'      |
| 30025345180001 | ENRON O&G CO.           | TRISTE DRAW '3' FEDERAL    | 1        | 3   | 25S | 33E | 1826'FNL & 660'FEL  | 5,115'      |
| 30025345850000 | EOG RES. INC.           | TRISTE DRAW '3' FEDERAL    | 2        | 3   | 25S | 33E | 2310'FNL & 1980'FWL | 4,421'      |
| 30025350720000 | EOG RES. INC.           | TRISTE DRAW '3' FEDERAL    | 3        | 3   | 25S | 33E | 660'FSL & 660'FEL   | 4,473'      |
| 30025308720000 | ENDURANCE RESOURCES LLC | GILA '4' DEEP COM          | 1        | 4   | 25S | 33E | 1975'FNL & 1980'FEL | est. 6,500' |
| 30025308720001 | ENDURANCE RESOURCES LLC | GILA '4' DEEP COM          | 1        | 4   | 25S | 33E | 1975'FNL & 1980'FEL | est. 6,500' |
| 30025083810000 | SANTANA PET CORP        | BASS-FEDERAL               | 1        | 8   | 25S | 33E | 1980'FSL & 660'FEL  | n/a         |
| 30025336390000 | BTA OIL PRODUCERS LLC   | 9418 JV-P VACA DRAW        | 1        | 10  | 25S | 33E | 1980'FSL & 1980'FWL | 3,440'      |
| 30025336390001 | BTA OIL PRODUCERS LLC   | 9418 JV-P VACA DRAW        | 1        | 10  | 25S | 33E | 1980'FSL & 1980'FWL | 3,440'      |
| 30025416210000 | BTA OIL PRODUCER LLC    | VACA DRAW 9418 JV-P        | 2H       | 10  | 25S | 33E | 190'FNL & 330'FEL   | est. 4,900' |
| 30025416220000 | BTA OIL PRODUCER LLC    | VACA DRAW 9418 JV-P        | 3H       | 10  | 25S | 33E | 190'FNL & 2310'FEL  | est. 4,900' |
| 30025416230000 | BTA OIL PRODUCER LLC    | VACA DRAW 9418 JV-P        | 4H       | 10  | 25S | 33E | 190'FNL & 1650'FWL  | est. 4,900' |
| 30025416240000 | BTA OIL PRODUCER LLC    | VACA DRAW 9418 JV-P        | 5H       | 10  | 25S | 33E | 190'FNL & 330'FWL   | est. 4,900' |
| 30025083820000 | HANKAMER CURTIS CORP    | MUSE-FEDERAL               | 1        | 11  | 25S | 33E | 660'FNL & 660'FWL   | n/a         |
| 30025267290000 | CHEVRON MIDCONTINENT LP | BELL LAKE '11' FEDERAL     | 1        | 11  | 25S | 33E | 660'FNL & 1980'FEL  | est. 5,029' |
| 30025267290001 | HNG OIL CO.             | BELL LAKE '11' FEDERAL     | 1        | 11  | 25S | 33E | 660'FNL & 1980'FEL  | est. 5,029' |
| 30025346350000 | ENRON O&G CO.           | TRISTE DRAW '11' FEDERAL   | 1        | 11  | 25S | 33E | 1980'FSL & 1980'FWL | 4,414'      |
| 30025410980000 | EOG RES. INC.           | VACA 11 FEDERAL COM        | 1H       | 11  | 25S | 33E | 170'FSL & 1200'FWL  | 4,450'      |
| 30025415230000 | EOG RES. INC.           | VACA 11 FEDERAL            | 2H       | 11  | 25S | 33E | 170'FSL & 1200'FEL  | 4,500'      |
| 30025327890000 | EOG RES. INC.           | HALLWOOD '12' FEDERAL      | 9        | 12  | 25S | 33E | 1830'FNL & 1650'FWL | 4,930'      |
| 30025332940000 | EOG RES. INC.           | HALLWOOD '12' FEDERAL      | 5        | 12  | 25S | 33E | 1700'FSL & 331'FWL  | 6,000'      |
| 30025365840000 | EOG RES. INC.           | RED HILLS NORTH UNIT       | 213      | 12  | 25S | 33E | 2297'FNL & 1748'FEL | 4,790'      |
| 30025321300000 | EOG RES. INC.           | VACA '13' FEDERAL          | 4        | 13  | 25S | 33E | 660'FNL & 660'FWL   | 5,520'      |
| 30025321300001 | ENRON O&G CO.           | VACA '13' FEDERAL          | 4        | 13  | 25S | 33E | 660'FNL & 660'FWL   | 5,520'      |
| 30025321820100 | EOG RES. INC.           | RED HILLS NORTH UNIT       | 302      | 13  | 25S | 33E | 660'FNL & 1980'FEL  | 3,800'      |
| 30025341180000 | ENRON O&G CO.           | VACA '14' FEDERAL          | 1        | 14  | 25S | 33E | 1650'FSL & 1650'FWL | 4,845'      |

## Exhibit - Two Mile Radius Wells (to BTA 9418 JV-P Vaca Draw #1)

| API #          | Operator                  | Well Name              | Well No. | Sec | Tw  | Rng | Footage Calls       | TOC         |
|----------------|---------------------------|------------------------|----------|-----|-----|-----|---------------------|-------------|
| 30025378390000 | EOG RES. INC.             | VACA 14 FEDERAL        | 2H       | 14  | 25S | 33E | 1980'FSL & 330'FEL  | 4,850'      |
| 30025393270000 | EOG RES. INC.             | VACA 14 FEDERAL        | 3        | 14  | 25S | 33E | 660'FNL & 1980'FEL  | 5,250'      |
| 30025393270100 | EOG RES. INC.             | VACA 14 FEDERAL        | 3        | 14  | 25S | 33E | 660'FNL & 1980'FEL  | 5,250'      |
| 30025398920000 | EOG RES. INC.             | VACA 14 FEDERAL        | 4H       | 14  | 25S | 33E | 330'FNL & 660'FEL   | 4,600'      |
| 30025399430000 | EOG RES. INC.             | VACA '14' FEDERAL      | 6H       | 14  | 25S | 33E | 50'FNL & 2130'FWL   | 4,600'      |
| 30025399440000 | EOG RES. INC.             | VACA '14' FEDERAL COM  | 5H       | 14  | 25S | 33E | 50'FNL & 330'FWL    | 4,050'      |
| 30025399440100 | EOG RES. INC.             | VACA '14' FEDERAL COM  | 5H       | 14  | 25S | 33E | 50'FNL & 330'FWL    | 4,050'      |
| 30025276230000 | SUPERIOR OIL CO           | OCHOA FEDERAL          | 1        | 15  | 25S | 33E | 1980'FNL & 1980'FEL | est. 4,991' |
| 30025276230001 | SUPERIOR DRLG INC         | OCHOA FEDERAL          | 1        | 15  | 25S | 33E | 1980'FNL & 1980'FEL | est. 4,991' |
| 30025276230002 | ENRON O&G CO.             | OCHOA FEDERAL          | 1        | 15  | 25S | 33E | 1980'FNL & 1980'FEL | est. 4,991' |
| 30025276230100 | EOG RES. INC.             | OCHOA FEDERAL          | 1        | 15  | 25S | 33E | 1980'FNL & 1980'FEL | est. 4,991' |
| 30025354450000 | CIMAREX ENERGY CO. OF CO. | VACA DRAW '15' FEDERAL | 1        | 15  | 25S | 33E | 660'FNL & 660'FWL   | 0'          |
| 30025272630000 | EOG RES. INC.             | VACA DRAW /16/STATE    | 1        | 16  | 25S | 33E | 1980'FNL & 660'FWL  | est. 4,924' |
| 30025272630001 | HNG OIL CO.               | VACA DRAW '16' STATE   | 1        | 16  | 25S | 33E | 1980'FNL & 660'FWL  | est. 4,924' |
| 30025346530000 | EOG RES. INC.             | VACA DRAW '16' STATE   | 2        | 16  | 25S | 33E | 1650'FSL & 990'FWL  | 4,299'      |
| 30025349090000 | CIMAREX ENERGY CO. OF CO. | VACA DRAW '16' STATE   | 3        | 16  | 25S | 33E | 1650'FNL & 660'FEL  | est. 4,805' |
| 30025083860000 | BUCKLES GEO L CO          | FEDERAL-MARSHALL       | 1        | 21  | 25S | 33E | 660'FNL & 660'FEL   | n/a         |
| 30025400500000 | EOG RES. INC.             | CABALLO '23' FEDERAL   | 1H       | 23  | 25S | 33E | 50'FNL & 440'FWL    | 4,120'      |
| 30025400510000 | EOG RES. INC.             | CABALLO '23' FEDERAL   | 2H       | 23  | 25S | 33E | 50'FNL & 2200'FWL   | est. 4,050' |
| 30025400520000 | EOG RES. INC.             | CABALLO 23 FEDERAL     | 3H       | 23  | 25S | 33E | 58'FNL & 2200'FEL   | 4,700'      |
| 30025400527000 | EOG RES. INC.             | CABALLO 23 FEDERAL     | 3        | 23  | 25S | 33E | 58'FNL & 2200'FEL   | 4,700'      |
| 30025402470000 | EOG RES. INC.             | CABALLO '23' FEDERAL   | 5H       | 23  | 25S | 33E | 40'FNL & 1295'FWL   | est. 4,050' |
| 30025402480000 | EOG RES. INC.             | CABALLO '23' FEDERAL   | 6H       | 23  | 25S | 33E | 20'FNL & 1310'FEL   | est. 4,050' |
| 30025405280000 | EOG RES. INC.             | VACA '24' FEDERAL COM  | 2H       | 24  | 25S | 33E | 50'FSL & 430'FWL    | 4,550'      |

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BTA Oil Producers LLC  
Application for Authorization to Inject  
9418 JV-P Vaca Draw #1  
1980' FSL & 1980' FWL  
Section 10, T25S, R33E  
Lea County, New Mexico

VIII Geologic Data

9418 JV-P Vaca Draw #1 Geological Discussion Regarding Proposed Disposal Interval

A. Disposal Zone

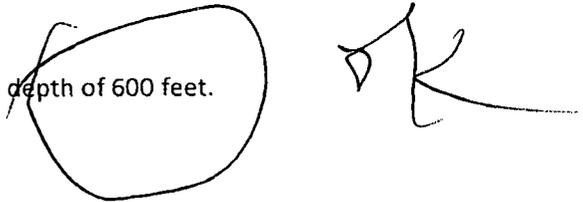
Injection will be into the Bell Canyon and upper Cherry Canyon members of the Delaware Mountain Group.

The Delaware Mountain Group has a total thickness in excess of 4,000 feet within this locality. It is comprised of alternating units of siltstone, sandstone, and limestone with minor units of shale. The proposed injection intervals in the Bell Canyon and upper Cherry Canyon members exhibit very good porosity as observed on electric logs. These sandstones have made productive oil and gas reservoirs regionally when the formations are associated with structural closures. At the proposed location, however, no closure has been observed. Additionally, electric logs indicate the formation is brine saturated and no shows were observed on the mudlog.

The Delaware Mountain Group was deposited within a deep marine basin. The cleaner sandstone units represent submarine channel/fan sequences deposited down dip of the shelf margin under turbiditic conditions triggered by tectonic activity, gravity slumping or sea level changes. The siltstone, limestone and/or shale units represent the normal deposition that occurs within a marine basin between the catastrophic interruptions of turbiditic events.

B. Fresh Water Sources:

Fresh water is present in Triassic aged reservoirs to a depth of 600 feet.



A

A'

EOG RESOURCES INCORPORATED  
TRISTE DRAW '3' FEDERAL  
3  
T25S R33E S3

BTA OIL PRODUCERS LLC  
9418 JV-P VACA DRAW  
1  
T25S R33E S10

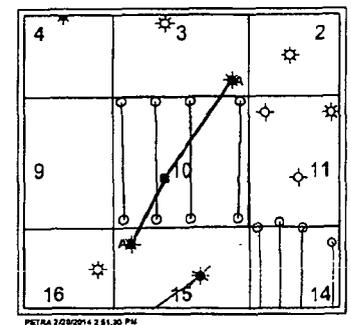
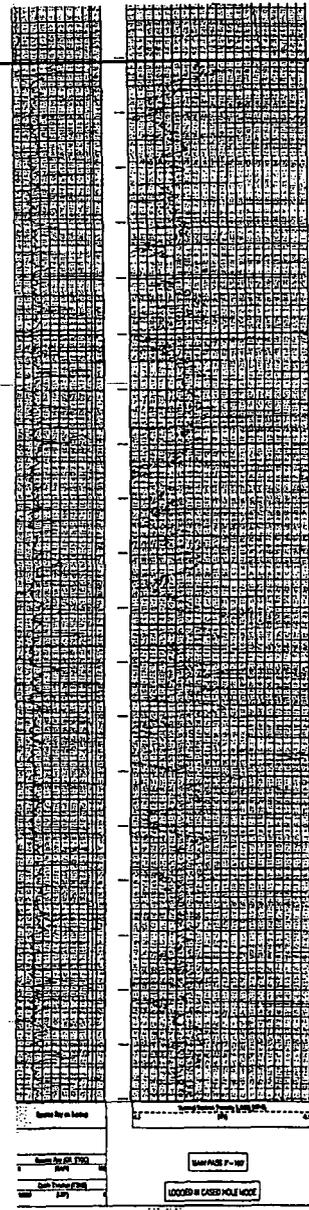
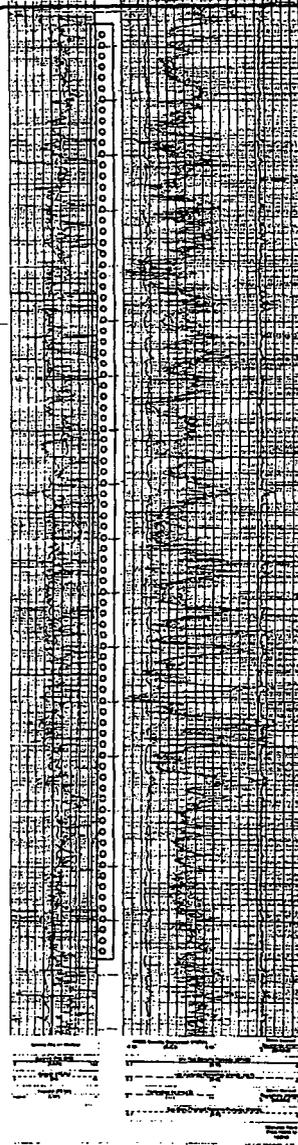
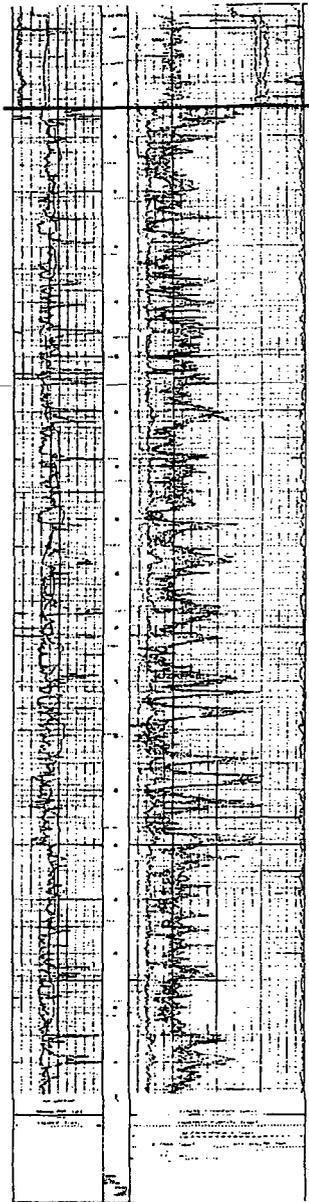
CIMAREX ENERGY CO OF COLORADO  
VACA DRAW '15' FEDERAL  
1  
T25S R33E S15

Subsea Depth(FT)  
-1500 -  
-1700 -  
-1900 -  
-2100 -  
-2300 -  
-2500 -  
-2700 -  
-2900 -  
-3100 -  
-3300 -  
-3500 -

Subsea Depth(FT)  
-1500  
-1700  
-1900  
-2100  
-2300  
-2500  
-2700  
-2900  
-3100

DELAWARE

DELAWARE



PETRA 2/20/2014 2:51:30 PM

**BTA OIL PRODUCERS, LLC**

9418 JV-P Vaca Draw

A - A' Stratigraphic Cross Section

Delaware

TOPS AND MARKERS

DELAWARE

\*\*\* Top of Proposed Injection Interval Indicated in Red \*\*\*

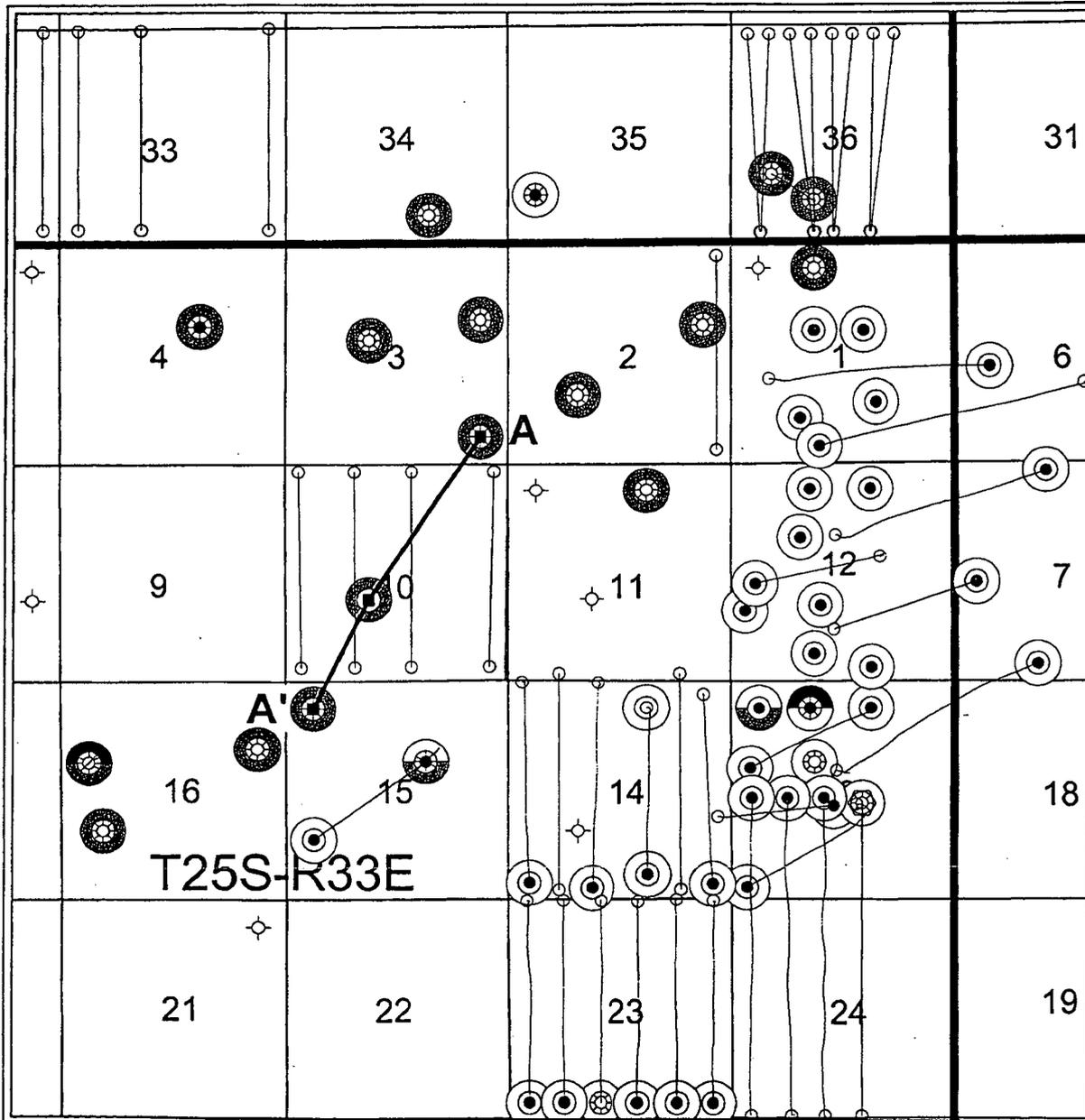
By: JHB

February 20, 2014 3:19 PM

HS-1030

PETRA 2/20/2014 2:50:28 PM

14



**BTA** BTA Oil Producers, LLC

**9418 JV-P Vaca Draw**

Producing Formation Map  
 Sec. 10 - T25S - R33E  
 Lea Co., New Mexico

**ATTRIBUTE MAP**

- Producing Formation Contains "ATOKA"
- Producing Formation Contains "BONESPRING"
- ▨ Producing Formation Contains "MORROW"
- ▩ Producing Formation Contains "WOLFCAMP"

**WELL SYMBOLS**

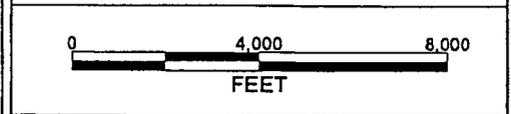
- Location Only
- ⊗ Completing/Completed
- Oil Well
- ☼ Gas Well
- ⊛ Oil & Gas Well
- Dry Hole
- ⊛ Plugged & Abandoned Gas Well
- ⊛ Plugged And Abandoned Oil and Gas Well
- ⊛ Oil & Gas Well

**REMARKS**

\*\*\*\* There Is No Delaware Formation Production In The Map Area \*\*\*\*

Top of Delaware Stratigraphic Cross Section Shown On Map

By: JHB



February 20, 2014

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15. Notify engineer if there is cement behind 5-1/2" casing above 6980'.
16. Pressure test 5-1/2" casing and CIBP to 1000 psi.
17. RDMO pulling unit.

**Turn over well to Concho for Micro Seismic Activities. After the wellbore is used to monitor frac:**

18. MIRU pulling unit.
19. MIRU WL unit. RIH and perforate cement circulation squeeze holes in 5-1/2" casing (12 holes, 0.42 EHD, 6 SPF) at 6940'.
20. RDMO WL Unit.
21. PU and RIH w/ packer for 5-1/2" casing. Set packer at 6900'.
22. Attempt to establish circulation down tubing taking returns on 5-1/2" x 8-5/8" annulus. Report to engineer.
23. POH and LD packer. PU and RIH w/ Cast Iron Cement Retainer. Set CICR @ ~6900'.
24. Sting into CICR and establish circulation. Pump 1000 sks Class H cement taking returns through 5-1/2" x 8-5/8" casing head. Sting out of retainer and reverse circulate out 1.5x tubing volume.
25. POH and LD stinger. PU and RIH w/ 4-3/4" bit and 6 3.5" drill collars. Drill out CICR and through squeeze perfs. Test perfs to 500 psi for 10 min.
26. RIH to CIBP @ 12,000'. Circulate well clean with 260 bbls inhibited packer fluid.
27. POH and LD 2-7/8" tubing.
28. MIRU WL unit. Pull GR/CCL/CBL from 12,150' to Surface. RDMO WL.
29. ND BOP, NU 7-1/16" 5K bonnet w/ gate valve on wellhead.
30. RDMO pulling unit.

**Once we receive Permit to convert to disposal**

31. Notify Maxey Brown with BLM of job to convert well to disposal. You will need the well API number: 30-025-33639
32. NU BOP. MIRU WL unit and crane. Set CIBP in 5-1/2" 17# casing at 6930'.
33. RIH w/ 3-1/8" 2 JSPF perforating guns and perforate (Delaware) 5062'-6750' as per table below:

Delware Injection Perfs

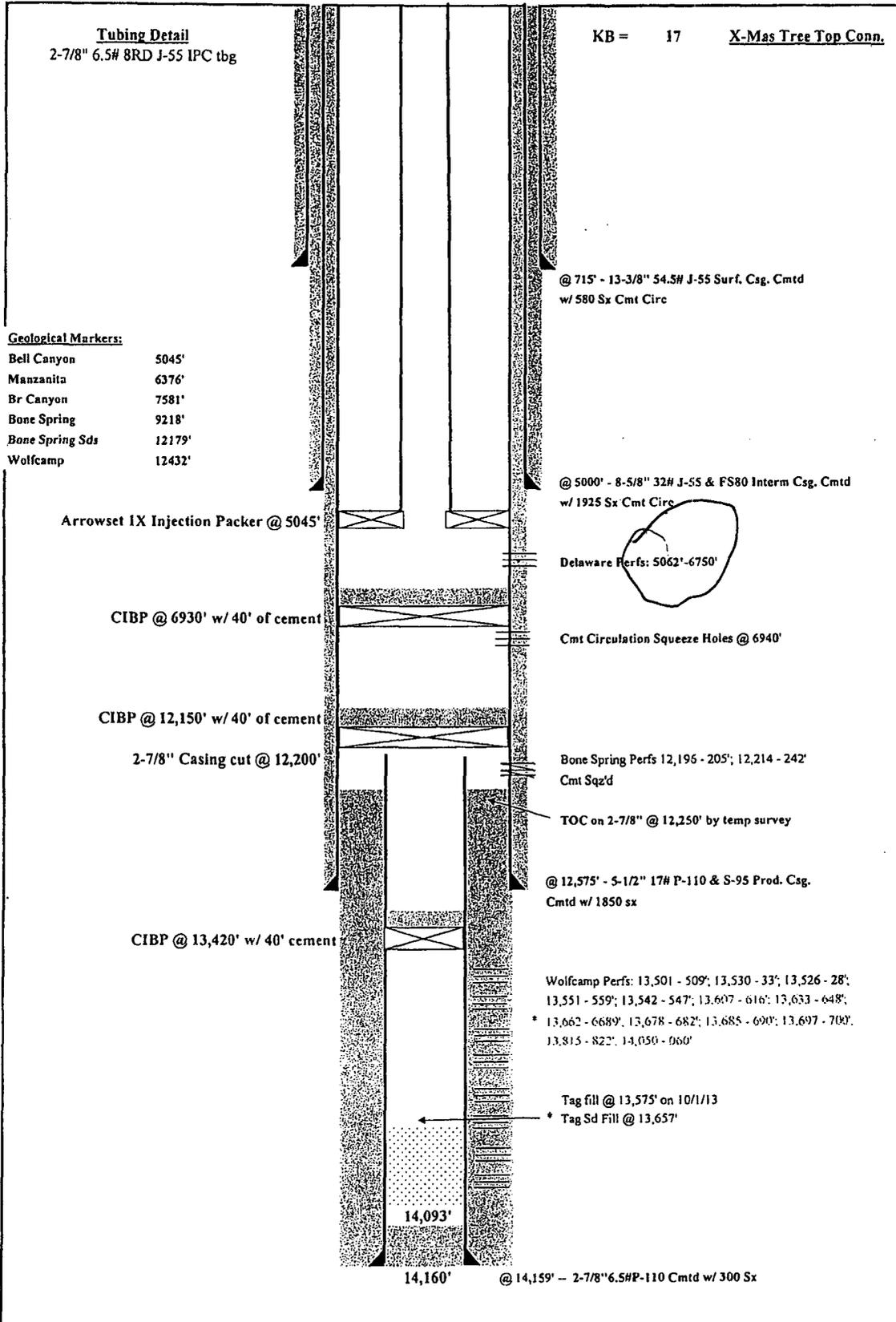
| <u>DEPTH</u>     |          | <u>SPF</u> | <u>HOLES</u> | <u>GUN FTG</u> |
|------------------|----------|------------|--------------|----------------|
| 6,702'           | - 6,750' | 2          | 96           | 48             |
| 6,610'           | - 6,674' | 2          | 128          | 64             |
| 6,582'           | - 6,600' | 2          | 36           | 18             |
| 6,546'           | - 6,572' | 2          | 52           | 26             |
| 6,496'           | - 6,522' | 2          | 52           | 26             |
| 6,454'           | - 6,470' | 2          | 32           | 16             |
| 6,382'           | - 6,430' | 2          | 96           | 48             |
| 6,282'           | - 6,322' | 2          | 80           | 40             |
| 6,216'           | - 6,264' | 2          | 96           | 48             |
| 6,146'           | - 6,166' | 2          | 40           | 20             |
| 6,074'           | - 6,122' | 2          | 96           | 48             |
| 5,940'           | - 6,030' | 2          | 180          | 90             |
| 5,864'           | - 5,888' | 2          | 48           | 24             |
| 5,824'           | - 5,848' | 2          | 48           | 24             |
| 5,750'           | - 5,770' | 2          | 40           | 20             |
| 5,672'           | - 5,698' | 2          | 52           | 26             |
| 5,632'           | - 5,654' | 2          | 44           | 22             |
| 5,584'           | - 5,610' | 2          | 52           | 26             |
| 5,486'           | - 5,540' | 2          | 108          | 54             |
| 5,400'           | - 5,420' | 2          | 40           | 20             |
| 5,342'           | - 5,382' | 2          | 80           | 40             |
| 5,235'           | - 5,260' | 2          | 50           | 25             |
| 5,118'           | - 5,170' | 2          | 104          | 52             |
| 5,062'           | - 5,078' | 2          | 32           | 16             |
| <b>h = 1688'</b> |          |            | <b>1682</b>  | <b>841</b>     |

34. RIH and dump bail 40' of cement on CIBP @ 6930'. RDMO WL unit and crane.
35. MIRU pulling unit.
36. PU and RIH w/ pump off plug, nickel coated OD / plastic coated ID Arrowset 1X packer for 5-1/2" 17# casing; T2 on/off tool w/ 2.25F SS Profile; and new 2-7/8" J-55 plastic coated ID tubing. Set packer at 5045'.
37. Get off of packer and circulate around 120 bbls inhibited packer fluid. Pressure test backside to 500 psi for 30 min recording results on chart.
38. ND BOP, NU WH. RDMO pulling unit.
39. Pressure up on tubing and blow pump off plug.
40. Establish injection into Delware perfs. Report injection rate/pressure to office.
41. Schedule and perform Mechanical Integrity Test with Maxey Brown at the BLM. Send in chart to office.
42. After MIT has been approved, put well on injection.

RTW  
3/12/13

Vaca Draw #1 - Proposed WBD  
PROPOSED CONVERT TO INJECTION

API 30-025-33639



|         |           |  |                                       |           |     |
|---------|-----------|--|---------------------------------------|-----------|-----|
| Revised |           | Gas Well   |                                       | Drawn     | TJW |
| RTW     | 2/20/2014 | LEASE:   | 9418 JV-P Vaca Draw #1                | 3/29/2007 |     |
|         |           | FIELD:   | Johnson Ranch                         | Approved  |     |
|         |           | LOCATION:  | 1980' FSL 1980' FWL Sec. 10 T2SS R33E | Date      |     |
|         |           | COUNTY:  | Lea STATE: New Mexico                 |           |     |
|         |           | PRODUCING FORMATION:   | Wolfcamp                              |           |     |
|         |           | <br>BTA Oil Producers |                                       |           |     |

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BTA Oil Producers LLC  
Application for Authorization to Inject  
9418 JV-P Vaca Draw #1  
1980' FSL & 1980' FWL  
Section 10, T25S, R33E  
Lea County, New Mexico

- X Well logs were filed with the original completion.
- XI No water wells are located in the 2-mile area surrounding the 9418 JV-P Vaca Draw #1.
- XII There is no geological evidence of open faults nor other hydrologic connection between the disposal zone and any underground drinking water sources.

BTA Oil Producers LLC  
 Application for Authorization to Inject  
 9418 JV-P Vaca Draw #1  
 1980' FSL & 1980' FWL  
 Section 10, T25S, R33E  
 Lea County, New Mexico



**Water Samples for Well COTTON DRAW UNIT 004**

API = 3002508221

Formation = DEL

Field = PADUCA

**Current Water Production Information**

**Instructions:**

- Click  For general information about this sample.
  - Click  For scale calculation pages (Stiff-Davis or Oddo Tomson methods).
  - Click  To select this water sample for water mixing. It will lead to the main page, and add the sample ID to the mixing table.
  - Click 664 Click the hyperlinked sample number to make a .csv for that sample, or select several check boxes and click Submit for multiple samples
- The ions are in (mg/L) units.

| Sample ID | T | R | S | SO4 | CL | CO3 | HCO3 | K | Na | Ca | Mg |
|-----------|---|---|---|-----|----|-----|------|---|----|----|----|
|-----------|---|---|---|-----|----|-----|------|---|----|----|----|

|                          |      |     |     |    |     |        |      |     |      |      |      |      |
|--------------------------|------|-----|-----|----|-----|--------|------|-----|------|------|------|------|
| <input type="checkbox"/> | 4293 | 25S | 32E | 22 | 552 | 170500 | null | 198 | null | null | null | null |
|--------------------------|------|-----|-----|----|-----|--------|------|-----|------|------|------|------|

BTA Oil Producers LLC  
Application for Authorization to Inject  
9418 JV-P Vaca Draw #1  
1980' FSL & 1980' FWL  
Section 10, T25S, R33E  
Lea County, New Mexico

XIII Notice of Offset Operators Within ½ Mile

Surface Owner is Federal

Offset Operator List

Chevron Midcontinent LP  
Chevron USA Inc  
1400 Smith  
Houston, TX 77002  
Attn: Sandy Stedman-Daniel

Cimarex Energy Company of Colorado  
600 N Marienfeld, Ste 600  
Midland, TX 79701

AMENDED ADDRESS

Endurance Resources LLC  
15455 Dallas Pkwy, Suite 600  
Addison, TX 75234

EOG Resources, Inc.  
P. O. Box 2267  
Midland, TX 79702

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