

ABOVE THIS LINE FOR DIVISION USE ONLY

**NEW MEXICO OIL CONSERVATION DIVISION**  
 - Engineering Bureau -  
 1220 South St. Francis Drive, Santa Fe, NM 87505



Vaca Draw Unit SWD #1  
 API:30-25-23895

**ADMINISTRATIVE APPLICATION CHECKLIST**

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

**Application Acronyms:**

- [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]  
 [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]  
 [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-  
 Waterflood Expansion] [PMX-Pressure Maintenance Expansion]  
 [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]  
 [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]

- [A] Location - Spacing Unit - Simultaneous Dedication  
 NSL  NSP  SD

Check One Only for [B] or [C]

- [B] Commingling - Storage - Measurement  
 DHC  CTB  PLC  PC  OLS  OLM

- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  
 WFX  PMX  SWD  IPI  EOR  PPR

- [D] Other: Specify \_\_\_\_\_

SWD 1571-A  
 BTA Oil Producers, LLC  
 260297

Well  
 - Vaca Draw Unit  
 SWD #1  
 30-025-23895

Pool  
 - SWD, Devonian  
 96101

*Need the injection sheet w/ WY 155*

[2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or  Does Not Apply

- [A]  Working, Royalty or Overriding Royalty Interest Owners  
 [B]  Offset Operators, Leaseholders or Surface Owner  
 [C]  Application is One Which Requires Published Legal Notice  
 [D]  Notification and/or Concurrent Approval by BLM or SLO  
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office  
 [E]  For all of the above, Proof of Notification or Publication is Attached, and/or,  
 [F]  Waivers are Attached

[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Kayla McConnell  
 Print or Type Name

*Kayla McConnell*  
 Signature

Regulatory Analyst  
 Title

5/2/2016  
 Date

kmccconnell@btaoil.com  
 e-mail Address

**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 7811 JV-P Vaca Draw Unit SWD #1  
ADDRESS: 104 S. Pecos, Midland, TX 79701  
CONTACT PARTY: Kayla McConnell 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).
- \*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: Kayla McConnell TITLE: Regulatory Analyst  
SIGNATURE: Kayla McConnell DATE: 6/2/2016  
E-MAIL ADDRESS: kmcconnell@btaoil.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.

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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, LLC

WELL NAME & NUMBER: 7811 JV-P Vaca Draw Unit SWD #1

WELL LOCATION: 657.5' FSL & 661.5' FEL, Sec. 21, T25S, R33E, Lea County, NM

FOOTAGE LOCATION                      UNIT LETTER                      SECTION                      TOWNSHIP                      RANGE

WELLBORE SCHEMATIC

(See Attached)

WELL CONSTRUCTION DATA

Liner

(Proposed)

Hole Size: 8 - 3/4"                      Liner Size 7"

Cemented with: \_\_\_\_\_ sx.                      or \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: \_\_\_\_\_                      Method Determined: \_\_\_\_\_

Other

(Proposed)

Hole Size: 6"                      Casing Size: Open Hole

Cemented with: \_\_\_\_\_ sx.                      or \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: \_\_\_\_\_                      Method Determined: \_\_\_\_\_

Injection Interval

Proposed                      17,498' feet to 19,042' (Open Hole)

(Perforated or Open Hole; indicate which)

**INJECTION WELL DATA SHEET**

Tubing Size: 3-1/2" Lining Material: Internally plastic-coated

Type of Packer: Arrowset 1X

Packer Setting Depth: 17,498'

Other Type of Tubing/Casing Seal (if applicable): \_\_\_\_\_

Additional Data

1. Is this a new well drilled for injection? \_\_\_\_\_ Yes x No

If no, for what purpose was the well originally drilled? Gas Well

P&A 2-20-1973

2. Name of the Injection Formation: Siluro-Devonian

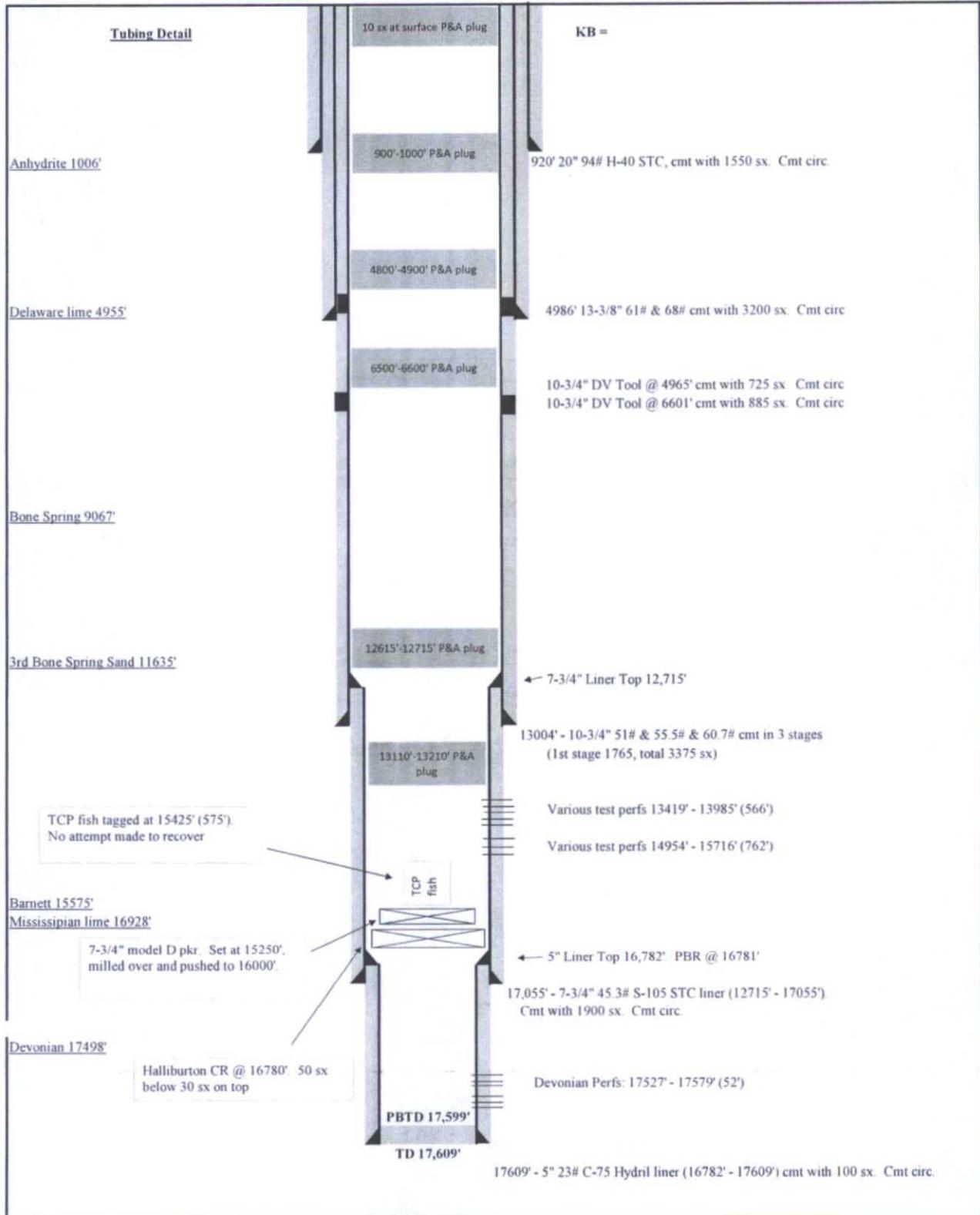
3. Name of Field or Pool (if applicable): \_\_\_\_\_

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

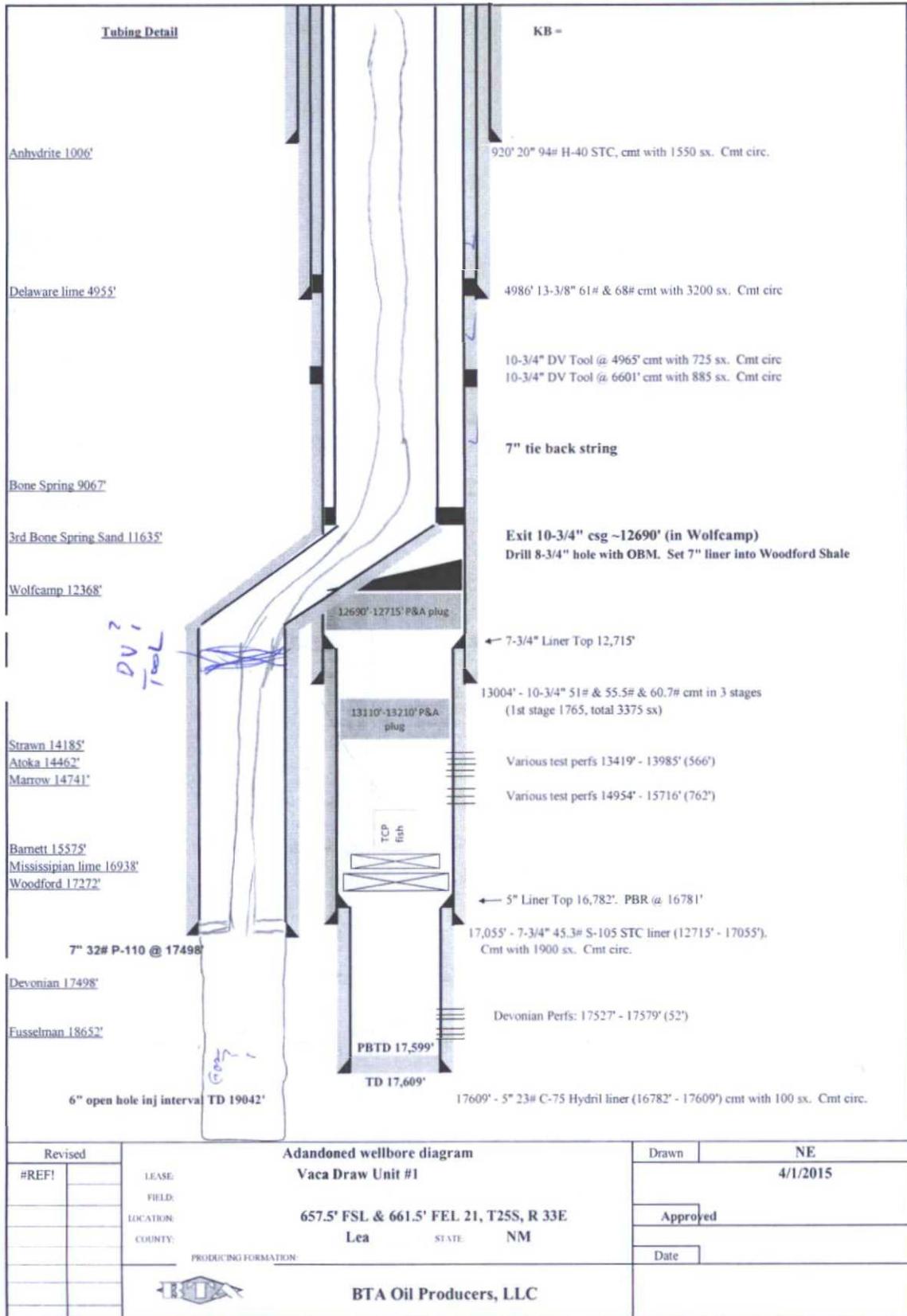
VI AOR Well Data.

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Anhydrite 1,006', Delaware Lime 4,955', Bone Spring 9,067',

Mississippian 16,938', Devonian 17,498', Fusselman 18652'



Revised	Adandoned wellbore diagram		Drawn	NE
#REF!	Vaca Draw Unit #1		4/1/2015	
	LEASE	657.5' FSL & 661.5' FEL 21, T2SS, R 33E	Approved	
	FIELD	Lea STATE: NM	Date	
	LOCATION			
	COUNTY			
	PRODUCING FORMATION			
	BTA Oil Producers			



Vaca Draw Unit SWD #1

Wellbore re-entry and sidetrack of existing wellbore.

Procedure:

1. Install wellhead
2. Drill out cement plugs in 10-3/4" casing, test csg to 800 psi
3. Dress off cmt plug in 10-3/4" casing from 12,615' – 12,690' (remaining plug will be 12690' – 12715')
4. Set whipstock and exit 10-3/4" casing with 8-3/4" bit size
5. Drill from 12,690' (wolfcamp) to 17,498' (top of Devonian) using OBM (13.8 ppg – 14.0 ppg)
6. Set 7" 32# P-110 liner (liner will be kept 1/3 full at all times) 12,550' – 17,498' with 620 sx
7. Drill 6" open hole injection interval through Devonian/Silurian section using cut brine (8.8 ppg – 9.4 ppg to 19,042'
  - a. Pull into 7" csg and test for injection
  - b. Once injection established, run 7" un-cemented tie back string to surface (tie into PBR on top of 7" liner)
8. Install 4-1/2" 11.6# P-110 IPC with AS1X packer @ 17,495'
  - a. Perform MIT
9. Acidize open hole 17,498' – 19,000' with 30,000 gal 15% HCl
10. Put well on injection

**COPY**

State of New Mexico  
Energy, Minerals and Natural Resources Department

Susana Martinez  
Governor

David Martin  
Cabinet Secretary

Brett F. Woods, Ph.D.  
Deputy Cabinet Secretary

David R. Catanach, Division Director  
Oil Conservation Division



Administrative Order SWD-1571  
August 7, 2015

**ADMINISTRATIVE ORDER  
OF THE OIL CONSERVATION DIVISION**

Pursuant to the provisions of Division Rule 19.15.26.8B, NMAC, BTA Oil Producers, LLC (the "operator") seeks an administrative order to authorize the 7811 JV-P Vaca Draw Unit SWD Well No. 1 located 660 feet from the South line and 660 feet from the East line, Unit letter P of Section 21, Township 25 South, Range 33 East, NMPM, Lea County, New Mexico, for the commercial disposal of produced water.

**THE DIVISION DIRECTOR FINDS THAT:**

The application has been duly filed under the provisions of Division Rules 19.15.26.8B, NMAC and satisfactory information has been provided that affected parties as defined in said rule have been notified and no objection was received within the required suspense period. The applicant has presented satisfactory evidence that all requirements prescribed in Rule 19.15.26.8 NMAC have been met and the operator is in compliance with Rule 19.15.5.9 NMAC.

**IT IS THEREFORE ORDERED THAT:**

The applicant, BTA Oil Producers, LLC (OGRID 260297), is hereby authorized to utilize its 7811 JV-P Vaca Draw Unit SWD Well No. 1 (API 30-025-23895) located 660 feet from the South line and 660 feet from the East line, Unit letter P of Section 21, Township 25 South, Range 33 East, NMPM, Lea County, for commercial disposal of oil field produced water (UIC Class II only) in the Devonian formation, through open-hole and perforations from 17498 to 17909 feet. Injection will occur through internally-coated, 3½-inch or smaller tubing and a packer set within 100 feet of the uppermost perforation.

**IT IS FURTHER ORDERED THAT:**

The operator shall take all steps necessary to ensure that the disposed water enters only the approved disposal interval and is not permitted to escape to other formations or onto the surface. This includes the completion and construction of the well as proposed in the application, and as modified by this Order.

*The operator shall supply the Division with a copy of a mudlog over the permitted disposal interval and an estimated insitu water salinity based on open-hole logs. If significant hydrocarbon shows occur while drilling, the operator shall notify the Division's District I and the operator shall be required to receive written permission prior to commencing disposal.*

# COPY

Administrative Order SWD-1571  
BTA Oil Producers, LLC  
August 7, 2015  
Page 2 of 3

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*Prior to commencing disposal, the operator shall submit mudlog and geophysical logs information, to the Division's District geologist and Santa Fe Bureau Engineering office, showing evidence agreeable that only the permitted formations are open for disposal including a summary of depths (picks) for contacts of the formations which the Division shall use to amend this order for a final description of the depth for the injection interval.*

*The operator shall run a CBL (or equivalent) across the 5-inch liner through the 7-3/4 to 16,500 feet to demonstrate a good cement bond between the two casings.*

*All existing perforations between 13,419 to 13985, and 14954-15716 shall be squeezed prior to deepening to TD.*

*If the upper contact of the Ordovician Ellenburger formation is encountered prior to the lower limit of the approved injection interval at 17909 feet, then the total depth of the well (and injection interval) shall be reduced to the upper contact of Ellenburger formation.*

*Within two years after commencing disposal, the operator shall conduct an injection survey, consisting of a temperature log or equivalent, over the entire injection interval using representative disposal rates. Copies of the survey results shall be provided to the Division's District I office and Santa Fe Engineering Bureau office.*

After installing tubing, the casing-tubing annulus shall be loaded with an inert fluid and equipped with a pressure gauge or an approved leak detection device in order to determine leakage in the casing, tubing, or packer. The casing shall be pressure tested from the surface to the packer setting depth to assure casing integrity.

The well shall pass an initial mechanical integrity test ("MIT") prior to initially commencing disposal and prior to resuming disposal each time the disposal packer is unseated. All MIT procedures and schedules shall follow the requirements in Division Rule 19.15.26.11A. NMAC. The Division Director retains the right to require at any time wireline verification of completion and packer setting depths in this well.

The wellhead injection pressure on the well shall be limited to **no more than 3500 psi**. In addition, the disposal well or system shall be equipped with a pressure limiting device in workable condition which shall, at all times, limit surface tubing pressure to the maximum allowable pressure for this well.

The Director of the Division may authorize an increase in tubing pressure upon a proper showing by the operator of said well that such higher pressure will not result in migration of the disposed fluid from the target formation. Such proper showing shall be demonstrated by sufficient evidence including but not limited to an acceptable Step-Rate Test.

The operator shall notify the supervisor of the Division's District I office of the date and time of the installation of disposal equipment and of any MIT so that the same may be inspected and witnessed. The operator shall provide written notice of the date of commencement of disposal to the Division's District office. The operator shall submit monthly reports of the disposal

**COPY**

operations on Division Form C-115, in accordance with Division Rules 19.15.26.13 and 19.15.7.24 NMAC.

Without limitation on the duties of the operator as provided in Division Rules 19.15.29 and 19.15.30 NMAC, or otherwise, the operator shall immediately notify the Division's District I office of any failure of the tubing, casing or packer in the well, or of any leakage or release of water, oil or gas from around any produced or plugged and abandoned well in the area, and shall take such measures as may be timely and necessary to correct such failure or leakage.

The injection authority granted under this order is not transferable except upon Division approval. The Division may require the operator to demonstrate mechanical integrity of any injection well that will be transferred prior to approving transfer of authority to inject.

The Division may revoke this injection order after notice and hearing if the operator is in violation of Rule 19.15.5.9 NMAC.

The disposal authority granted herein shall terminate two (2) years after the effective date of this Order if the operator has not commenced injection operations into the subject well. One year after the last date of reported disposal into this well, the Division shall consider the well abandoned, and the authority to dispose will terminate *ipso facto*. The Division, upon written request mailed by the operator prior to the termination date, may grant an extension thereof for good cause.

Compliance with this Order does not relieve the operator of the obligation to comply with other applicable federal, state or local laws or rules, or to exercise due care for the protection of fresh water, public health and safety and the environment.

Jurisdiction is retained by the Division for the entry of such further orders as may be necessary for the prevention of waste and/or protection of correlative rights or upon failure of the operator to conduct operations (1) to protect fresh or protectable waters or (2) consistent with the requirements in this order, whereupon the Division may, after notice and hearing, terminate the disposal authority granted herein.



**DAVID R. CATANACH**  
Director

DRC/mam

cc: Oil Conservation Division – Hobbs District Office  
Bureau of Land Management – Carlsbad  
Well File - 30-025-23895

DISTRICT I  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-6720

DISTRICT II  
811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9723

DISTRICT III  
1600 Rio Brazos Road, Aztec, NM 87419  
Phone: (505) 324-6178 Fax: (505) 334-6170

DISTRICT IV  
1220 S. St. Francis Dr., Santa Fe, NM 87503  
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico  
Energy, Minerals & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, New Mexico 87505

Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate District Office

**COPY**  
AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-23895	Pool Code 96101	Pool Name SWD;DEVONIAN
Property Code	Property Name 7811 JV-P VACA DRAW UNIT SWD	Well Number 1
OGRID No. 260297	Operator Name BTA OIL PRODUCERS, LLC	Elevation 3359'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	21	25-S	33-E		657.5	SOUTH	661.5	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres 3	Joint or Infill	Consolidation Code	Order No.
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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

	GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y= 404748.8 N X= 736207.0 E LAT.=32.110473' N LONG.=103.570456' W	GEODETIC COORDINATES NAD 83 NME SURFACE LOCATION Y= 404806.6 N X= 777393.2 E LAT.=32.110597' N LONG.=103.570927' W	

**OPERATOR CERTIFICATION**

I hereby certify that the information 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 hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

*Kayla McConnell* 6/4/2015  
Signature Date

Kayla McConnell  
Printed Name

kmccconnell@btaoil.com  
E-mail Address

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**SURVEYOR CERTIFICATION**

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 supervision, and that the same is true and correct to the best of my belief.

MAJ 02 2015  
Date of Survey

Ronald J. Eidson  
Signature & Seal of Professional Surveyor

Ronald J. Eidson 05/27/2015  
Certificate Number

Gary G. Eidson 12641  
Ronald J. Eidson 3238

L.S.I. JWSC W.O. 15 11 0598

BTA Oil Producers, LLC  
Application for Authorization to Inject  
7811 JV-P Vaca Draw Unit SWD #1  
657.5' FSL & 661.5' FEL  
Section 21, T25S - R33E  
Lea County, New Mexico

Attachment to C-108

VII    Operation Data

1. Proposed average Daily Injection volume            20000 BWPD  
   Proposed Maximum daily injection volume        25000 BWPD
  
2. This will be a closed system.
  
3. Proposed average daily injection pressure            500 psi  
   Proposed maximum daily injection pressure        3580 psi
  
4. Sources of injection water will be produced water from area that have been drilled.  
   These will be compatible with waters in disposal zones.

BTA Oil Producers, LLC  
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657.5' FSL & 661.5' FEL  
Section 21, T25S, R33E  
Lea County, New Mexico

Attachment to C-108

VII    Item 5

Disposal Zone Formation Water

Injection into the 7811 JV-P Vaca Draw Unit SWD #1 will be for disposal of produced water from other wells. The zone identified for disposal is not productive of oil and gas at this location. See attached Producing Formation Map. There is one current producing well within the AOR of the 7811 JV-P Vaca Draw Unit SWD #1. This well is 7811 JV-P Rojo #1 30-025-26188 operated by BTA.

BTA Oil Producers, LLC  
Application for Authorization to Inject  
7811 JV-P Vaca Draw Unit SWD #1  
660' FNL & 1830' FWL  
Section 14, T22S, R34E  
Lea County, NM

Attachment to C-108

## VIII Geologic Data

### 7811 JV-P Vaca Draw Unit SWD #1 Geological Discussion Regarding Proposed Disposal Interval

#### A. Disposal Zone

The proposed disposal interval for this wellbore is the Devonian formation. The Devonian formation was deposited a shallow water platform carbonate formation achieving thicknesses >1000 ft in this area. Oil and gas reservoirs occur where porosity is trapped on a closure. This wellbore tested gas on initial completion from the Siluro-Devonian formation, however, the rate was not commercial. The structure has been subsequently drained by the 7811 JV-P Rojo #1 which produced ~6.2 BCF from a structurally higher position before watering-out.

#### B. Fresh Water Sources:

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

BTA Oil Producers, LLC  
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Section 21, T25S, R33E  
Lea County, New Mexico

Attachment to C-108

- X Well logs were filed with original completion.
- XI No water wells are located within a 1-mile radius surrounding the 7811 JV-P Vaca Draw Unit SWD #1.
- XII There is no geological evidence of open faults nor other hydrologic connection between the disposal zone and any underground drinking water sources. Per Britton McQuien, Exploration Engineer.

**RESULT OF WATER ANALYSES**

TO: Mr. Tom Williams LABORATORY NO. 49057  
104 South Pecos, Midland, Texas SAMPLE RECEIVED 4-6-90  
 RESULTS REPORTED 4-11-90

COMPANY BTA Oil Producers LEASE Rojo  
 FIELD OR POOL Red Hills  
 SECTION      BLOCK      SURVEY      COUNTY Lea STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:  
 NO. 1 Produced water - taken from Rojo #1. 4-5-90  
 NO. 2       
 NO. 3       
 NO. 4     

REMARKS: Devonian

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0849			
pH When Sampled				
pH When Received	6.38			
Bicarbonate as HCO <sub>3</sub>	264			
Supersaturation as CaCO <sub>3</sub>				
Undersaturation as CaCO <sub>3</sub>				
Total Hardness as CaCO <sub>3</sub>	48,800			
Calcium as Ca	6,640			
Magnesium as Mg	535			
Sodium and/or Potassium	39,583			
Sulfate as SO <sub>4</sub>	472			
Chloride as Cl	73,860			
Iron as Fe	0.14			
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	121,353			
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen				
Hydrogen Sulfide	27.0			
Resistivity, ohms/m at 77° F.	0.082			
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks Our area records of Devonian are some 10 and 15 miles to the north of this field. In comparing with those records, we note that this water has decidedly similar ratios of salts but a higher level of the salts than these records to the north. This gives strong implication of the probability that this is a natural water from the Devonian interval and appears to have little, or no, influence from condensed water vapor.

By Waylan C. Martin  
 Waylan C. Martin, M.A.

COPY

P. O. BOX 1488  
MONAHANS, TEXAS 79758  
PH. 943-3234 OR 563-1040

Martin Water Laboratories, Inc.

709 W. INDIANA  
MIDLAND, TEXAS 79701  
PHONE 683-4521

RESULT OF WATER ANALYSES

LABORATORY NO. 89713

TO: Mr. Tom Williams SAMPLE RECEIVED 8-5-97

104 South Pecos, Midland, TX 79701-5099 RESULTS REPORTED 8-6-97

COMPANY BTA Oil Producers LEASE Mesa #1 8105

FIELD OR POOL \_\_\_\_\_

SECTION 1 BLOCK \_\_\_\_\_ SURVEY T-26S&R-32E COUNTY Lea STATE NM

SOURCE OF SAMPLE AND DATE TAKEN \_\_\_\_\_

NO. 1 Produced water - taken from Mesa #1

NO. 2 \_\_\_\_\_

NO. 3 \_\_\_\_\_

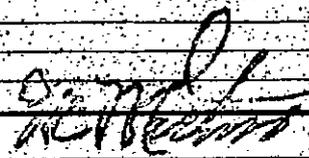
NO. 4 \_\_\_\_\_

REMARKS: Wolfcamp

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 80° F.	1.0156			
pH When Sampled				
pH When Received	7.28			
Bicarbonate as HCO <sub>3</sub>	390			
Supersaturation as CaCO <sub>3</sub>				
Undersaturation as CaCO <sub>3</sub>				
Total Hardness as CaCO <sub>3</sub>	720			
Calcium as Ca	232			
Magnesium as Mg	34			
Sodium and/or Potassium	7,483			
Sulfate as SO <sub>4</sub>	48			
Chloride as Cl	11,786			
Iron as Fe	371			
Barium as Ba	0			
Turbidity, Electric				
Color as Pt.				
Total Solids, Calculated	19,974			
Temperature, °F				
Carbon Dioxide, Calculated				
Dissolved Oxygen				
Hydrogen Sulfide	11.0			
Resistivity, ohm-cm at 77° F.	0.400			
Suspended Oil				
Filterable Solids as mg/l				
Volume Filtered, ml				

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks: In comparing this water with our nearest cataloged records some 5 miles to the northeast, we find this water has ratios of salts decidedly similar to what would be expected from a natural Wolfcamp. However, the levels of the salts are approximately one-third those that would be expected from a natural Wolfcamp, therefore strongly indicating a significant dilution influence exists; but there can be some slight amount of Wolfcamp water involved.



By Waylan C. Martin, M.A.

# COPY

WATER SAMPLE REPRESENTATIVE OF WATER BEING INJECTED INTO THE PROPOSED SWD WELL												
Water is very similar to that of the receiving formation, therefore no compatibility problems are expected.												
Avalon												
Lab Test #	Lease	Location	Salesman	Date Out	Sample Date	Specific Gravity	Ionic Strength	TDS	pH	conductivity	Ca (mg/L)	Mg (mg/L)
2012105497	Gunner	8 Fed 8H		3/12/2012	12/17/2011	1.09	2.20	132205.83	5.90		11390.50	2098.17

TH (CaCO3)	Na (mg/L)	K (mg/L)	Zn (mg/L)	Fe (mg/L)	Ba (mg/L)	Sr (mg/L)	Mn (mg/L)	Resistivity	HCO3 (mg/L)	CO3 (mg/L)	OH (mg/L)	SO4 (mg/L)	Cl (mg/L)	CO2 (mg/L)	H2S (mg/L)
37551.69	48017.49	593.69	96.83	39.25	0.00	378.06	2.66		439.00	0.00		1050.00	68100.00	600.00	0.00

Bone Spring Produced Water

1/2

Representative Delaware Produced  
And Receiving Formation Water

**COPY**

General Information About: Sample 4222			
NORTH EL MAR UNIT 022			
API	3002508278	Sample Number	
Unit/Section/ Township/Range	J / 25 / 26 S / 32 E	Field	EL MAR
County	Lea	Formation	DEL
State	NM	Depth	
Lat/Long	32.01136 / - 103.62579	Sample Source	UNKNOWN
TDS (mg/L)	244815	Water Type	
Sample Date(MM/DD/YYYY)		Analysis Date(MM/DD/YYYY)	
Remarks/Description			
Cation Information (mg/L)		Anion Information (mg/L)	
Potassium (K)		Sulfate (SO)	220
Sodium (Na)		Chloride (Cl)	153500
Calcium (Ca)		Carbonate (CO <sub>3</sub> )	
Magnesium (Mg)		Bicarbonate (HCO <sub>3</sub> )	88
Barium (Ba)		Hydroxide (OH)	
Manganese (Mn)		Hydrogen Sulfide (H <sub>2</sub> S)	
Strontium (Sr)		Carbon Dioxide (CO <sub>2</sub> )	
Iron (Fe)		Oxygen (O)	

Data obtained from <http://octance.nmt.edu>



# New Mexico Office of the State Engineer

## Active & Inactive Points of Diversion

(with Ownership Information)



WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code	Grant	(quarters are 1=NW 2=NE 3=SW 4=SE)				(quarters are smallest to largest) (NAD83 UTM in meters)				
									q	q	q	q	X	Y			
<u>C 02313</u>		STK	3	MARK T. AND ANNETTE E. MCCLOY	LE	<u>C 02313</u>			Source 6416 4	2	3	3	26	25S	33E	636971	3552098*
<u>C 02916</u>		STK	40.3	BRININSTOOL XL RANCH LLC	LE	<u>C 02916</u>			4	3	4	20	25S	33E	632924	3553457*	
<u>C 02918</u>		STK	40.3	BRININSTOOL XL RANCH LLC	LE	<u>C 02918</u>			4	4	3	20	25S	33E	632521	3553452*	

(R=POD has been replaced and no longer serves this file.  
C=the file is closed)

Record Count: 3

PLSS Search:

Section(s): 17-35      Township: 25S      Range: 33E

Sorted by: File Number

BTA OIL PRODUCERS, LLC  
7811 JV-P Vaca Draw Unit SWD #1  
Attachment to C-108  
API: 30-025-23895

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

**COPY**



# New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,  
O=orphaned,

C=the file is closed) (quarters are 1=NW 2=NE 3=SW 4=SE)  
(quarters are smallest to largest)

(NAD83 UTM in meters) (In feet)

POD Number	POD Sub-	Q	Q	Q	Sec	Tws	Range	X	Y	Depth Well	Depth Water	Water Column	
C 02313		LE	2	3	3	26	25S	33E	636971	3552098*	150	110	40

Average Depth to Water: 110 feet

Minimum Depth: 110 feet

Maximum Depth: 110 feet

**Record Count: 1**

**Basin/County Search:**

County: Lea

**PLSS Search:**

Section(s): 17-35

Township: 25S

Range: 33E

BTA OIL PRODUCERS, LLC  
7811 JV-P Vaca Draw Unit SWD #1  
Attachment to C-108  
API: 30-025-23895

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

BTA Oil Producer, LLC  
 7811 JV-P Vaca Draw Unit #1  
 657.5' FSL & 661.5' FEL  
 Attachement to C-108

HALF MILE RADIUS												
API #	Operator	Well Name	Well No.	TD	Sec	Tw	Rng	Footage Calls	Spud Date	Comp Date	Status	Prod Fm
30025238950000	BTA OIL PRODUCERS, LLC	VACA DRAW UNIT SWD	1	17609	21	25S	33E	660'FSL & 660'FEL	10/2/1971	2/20/1973	REC-LOC	
30025300500000	EOG RESOURCES INC	BRINNINSTOOL '21' FEDERAL	1	16050	21	25S	33E	660'FSL & 1980'FEL	10/5/1987	1/8/1988	PAGW	MORROW
30025300500001	ENRON OIL & GAS CO	BRINNINSTOOL '21' FEDERAL	1	16050	21	25S	33E	660'FSL & 1980'FEL	6/30/1992	7/9/1992	PAGW	WOLFCAMP
30025261880000	BTA OIL PRODUCERS, LLC	7811 JV-P ROJO	1	17535	27	25S	33E	660'FNL & 660'FWL	2/9/1979	11/12/1979	GAS	DEVONIAN
30025261880001	BTA OIL PRODUCERS, LLC	ROJO 7811 JV-P	1	17535	27	25S	33E	660'FNL & 660'FWL	8/12/2008	9/3/2008	GAS	MORROW
30025261880002	BTA OIL PRODUCERS, LLC	ROJO 7811 JV-P	1	17535	27	25S	33E	660'FNL & 660'FWL	4/17/2009	4/30/2009	GAS	ATOKA
30025083900000	HANKAMER CURTIS CORP	CONLEY-FEDERAL	1	5039	28	25S	33E	660'FNL & 660'FEL	4/12/1962	4/22/1962	DRY	

BTA Oil Producer, LLC  
 7811 JV-P Vaca Draw Unit #1  
 657.5' FSL & 661.5' FEL  
 Attachment to C-108

VI. AOR Well Data

Well Name	Operator	Location	Type of Well	Spud Date	Comp Date	TD/ PBD	Comp Interval	Producing Formation	Casing Program				Plugging Detail
									Casing	Depth	Amt Cmt	Circ	
Vaca Draw Unit #1 API: 30-025-23895	American Quarsar	660' FSL & 660' FEL 21-T25S-R33E	P&A	10/2/1971	2/20/1973	17,609' MD	P&A (2/20/1972)	P&A (2/20/1972)	20" 13-3/8" 10-3/4" 7-3/4" Liner 5" Liner	920' 4986' 13004' 17055' 17609'	1550 3200 3375 1900 100	Circ Circ Circ 12,715' 16,782'	13,210'-13110' CP 12715'-13615' CP 6600'-6500' CP 4900'-4800' CP 3000'-900' CP Surface - 10sx
Brinninstool 21 Federal #1 API: 30-025-30050	Enron Oil and Gas Co.	660' FSL & 1980' FEL 21-T25S-R33E	P&A	10/5/1987	1/7/1988	16,050' MD	P&A (1/19/2004)	P&A (1/19/2004)	13-3/8" 9-5/8" 7" 4-1/2" Liner	640' 4875' 13264' 16047'	650 sx 2375 sx 1425 sx 425 sx	Circ Circ - 12889'	CIBP @ 9350' - 25sx 6416'-6300' - 50sx 4925'-4792' - 75sx 2000'-1900' - 35sx 1450'-1350' - 35sx 690'-590' - 45sx 61' - 25sx
7811 JV-P Rojo #1 API: 30-025-26188	BTA Oil Producers	660' FNL & 660' FWL 27-T25S-R33E	GAS	6/6/1979	7/3/1979	16,050' MD	14346'-14458'	Wildcat;Atoka (Gas)	20" 13-3/8" 9-5/8" 7-3/4" Liner 5" Liner	909' 4941' 12992' 16960' 17524'	1650 sx 3400 sx 2300 sx 450 sx 200 sx	. . . 12594' 16547'	
Conley Federal #1 API: 30-025-08390	Hankamer Curtis Corp.	660' FNL & 660' FEL 28-T25S-R33E	DRY	4/12/1962	4/22/1962	5039' MD	P&A	P&A	N/A	N/A	N/A	N/A	5039-4976 - 20sx 4620-4555 - 20sx 1210-1165 - 20sx 324-265 - 10sx

**COPY**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPL  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 42-R1424.

**SUNDRY NOTICES AND REPORTS ON WELLS**  
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> <b>DRY</b>		5. LEASE DESIGNATION AND SERIAL NO. <b>LC-068847</b>	
2. NAME OF OPERATOR <b>American Quasar Petroleum Co. of New Mexico</b>		6. IF INDIAN, ALLOTTED OR TRIBE NAME	
3. ADDRESS OF OPERATOR <b>606 Vaughn Bldg., Midland, Texas 79701</b>		7. UNIT AGREEMENT NAME <b>VACA DRAM</b>	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface <b>660' F&amp;L &amp; 660' F&amp;L, Sec. 21, T-25-S, R-33-E</b>		8. FARM OR LEASE NAME <b>VACA DRAM UNIT</b>	
14. PERMIT NO. <b>30-025-23895</b>		9. WELL NO. <b>1</b>	
15. ELEVATIONS (Show whether DF, RT, CR, etc.) <b>3392' RT</b>		10. FIELD AND POOL, OR WILDCAT <b>Undesignated</b>	
		11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA <b>Sec. 21, T-25-S, R-33-E</b>	
		12. COUNTY OR PARISH <b>Lea</b>	13. STATE <b>N.M.</b>

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

**This well was non-commercial and plugging operations commenced 2/19/72 and completed 2/20/72.**

**Halliburton spotted cement plugs thru open-end tubing as follows:**

100' cement plug @ 13,210' - 13,110'  
 100' cement plug @ 12,715' - 12,615'  
 100' cement plug @ 6,600' - 6,500'  
 100' cement plug @ 4,900' - 4,800'  
 100' cement plug @ 1,000' - 900'  
 10' air plug @ surface

**Hole filled w/ 10¢ mud. Steel plate welded on 20" cas. w/ 4" pipe extending 4' above ground level w/ appropriate well markings. Collar filled & pits leveled.**

18. I hereby certify that the foregoing is true and correct

SIGNED *Jed Collins* TITLE President DATE 3/7/73

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

**COPY**

Budget Bureau No. 42-R355.5.

(See other instructions on reverse side)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG\*

1. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other  **PAA**

2. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  DIFF. RESVR.  Other \_\_\_\_\_

3. NAME OF OPERATOR  
**American Quasar Petroleum Co., of New Mexico**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface **660' FSL + 660' FSL of Sec. 21, T-25-S, R-33-S**  
At top prod. interval reported below **Not Surveyed**  
At total depth **Not Surveyed**

5. LEASE DESIGNATION AND SERIAL NO.  
**LC-060347**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME \_\_\_\_\_

7. UNIT AGREEMENT NAME  
**VACA DRAW**

8. FARM OR LEASE NAME  
**VACA DRAW UNIT**

9. WELL NO. \_\_\_\_\_

10. FIELD AND POOL OR WILDCAT  
**Undesignated**

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA  
**Sec. 21, T-25-S, R-33-S**

12. COUNTY OR PARISH **Lea** 13. STATE **N.M.**

15. DATE SPUNDED **10/2/71** 16. DATE T.D. REACHED **3/8/73** 17. DATE COMPL. **11/13/72** 18. ELEVATIONS (OF, RND, RT, CR, ETC.)\* **3392 RD** 19. ELEV. CASINGHEAD **3366 Tdb head**

20. TOTAL DEPTH, MD & TVD **17,609** 21. PLUG BACK T.D., MD & TVD **14,720** 22. IF MULTIPLE COMPL. HOW MANY\* \_\_\_\_\_ 23. INTERVALS DRILLED BY **NOTED** ROTARY TOOLS \_\_\_\_\_ CABLE TOOLS \_\_\_\_\_

24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)\* **13,419 - 13,985 Not commercial** 25. WAS DIRECTIONAL SURVEY MADE **NO** **MAR 9 1973**

26. TYPE ELECTRIC AND OTHER LOGS RUN **Schlumberger** 27. WAS WELL CORED **No** **GORDON**

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
30"	Conductor	30' below Gr.	34"	Ready-mix concrete	0
28"	94.0	970	28"	1250 sx - circ.	0
13 3/8"	61.0 & 68.0	4986	17 1/2"	1200 sx - circ.	0
10 3/4"	51.0, 55.0, 60.7	13,094	12 1/4"	1175 sx - circ.	0

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
7 3/4"	12,715	17,035	1900	none	2 7/8"	13,210	13,210
5"	16,782	17,609	100	none			

30. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
13,419-13,985	3000 gals. 28% Acid

33. PRODUCTION

DATE FIRST PRODUCTION \_\_\_\_\_ PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) \_\_\_\_\_ WELL STATUS (Producing or shut-in) **PAA**

DATE OF TEST	HOURS TESTED	CHOKER SIZE	PROD'N. FOR TEST PERIOD	OIL--BBL.	GAS--MCF.	WATER--BBL.	GAS-OIL RATIO

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) \_\_\_\_\_ TEST WITNESSED BY \_\_\_\_\_

35. LIST OF ATTACHMENTS \_\_\_\_\_

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED *Jed Collins* TITLE **President** DATE **3/7/73**

\*(See Instructions and Spaces for Additional Data on Reverse Side)

BTA Oil Producers, LLC  
 7811 JV-P Vaca Draw Unit SWD #1  
 660' FSL 660' FEL  
 Section 21, T25S, R33E  
 Lea County, New Mexico

Attachment to C-108

### Exhibit "A" - 2 Mile Radius

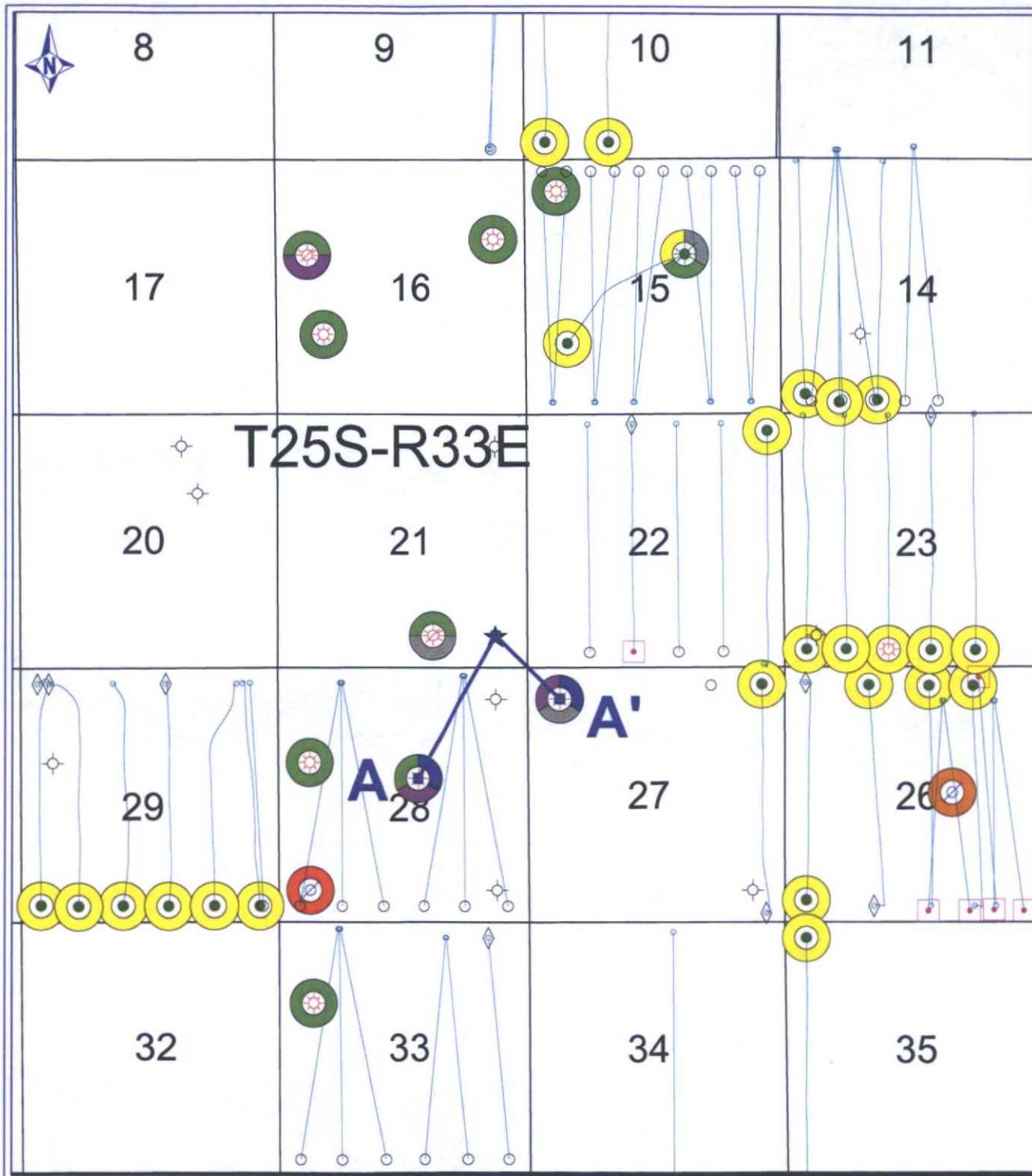
API #	Operator	Well Name	Well No.	Sec	Tw	Rng	Footage Calls	TOC	
30025416230100	BTA OIL PRODUCERS, LLC	VACA DRAW 9418 JV-P	4H	10	25S	33E	190'FNL & 1650'FWL	Surface	
30025416240000	BTA OIL PRODUCERS, LLC	VACA DRAW 9418 JV-P	5H	10	25S	33E	190'FNL & 330'FWL	Est. Surface	
30025410980000	EOG RESOURCES INC	VACA 11 FEDERAL COM	1H	11	25S	33E	170'FSL & 1200'FWL	Est. Surface	
30025341180000	ENRON OIL & GAS CO	VACA '14' FEDERAL		1	14	25S	33E	1650'FSL & 1650'FWL	P&A
30025399430000	EOG RESOURCES INC	VACA '14' FEDERAL	6H	14	25S	33E	50'FNL & 2130'FWL	Est. Surface	
30025399440100	EOG RESOURCES INC	VACA '14' FEDERAL COM	5H	14	25S	33E	50'FNL & 330'FWL	Surface	
30025276230000	SUPERIOR OIL CO	OCHOA FEDERAL		1	15	25S	33E	1980'FNL & 1980'FEL	Surface
30025276230001	SUPERIOR DRLG INC	OCHOA FEDERAL		1	15	25S	33E	1980'FNL & 1980'FEL	Surface
30025276230002	ENRON OIL & GAS CO	OCHOA FEDERAL		1	15	25S	33E	1980'FNL & 1980'FEL	Surface
30025276230100	EOG RESOURCES INC	OCHOA FEDERAL		1	15	25S	33E	1980'FNL & 1980'FEL	Surface
30025354450000	CIMAREX ENERGY CO	VACA DRAW '15' FEDERAL		1	15	25S	33E	660'FNL & 660'FWL	Surface
30025272630000	HEC PETROLEUM INCORPORATED	VACA DRAW /16/STATE		1	16	25S	33E	1980'FNL & 660'FWL	Surface
30025272630001	HNG OIL COMPANY	VACA DRAW '16' STATE		1	16	25S	33E	1980'FNL & 660'FWL	Surface
30025346530000	EOG RESOURCES INC	VACA DRAW '16' STATE		2	16	25S	33E	1650'FSL & 990'FWL	Surface
30025349090000	CIMAREX ENERGY CO	VACA DRAW '16' STATE		3	16	25S	33E	1650'FNL & 660'FEL	Surface
30025083850000	HANKAMER CURTIS CORP	BASS-FEDERAL		1	20	25S	33E	660'FNL & 1980'FEL	Surface
30025347500000	EOG RESOURCES INC	VACA DRAW '20' FEDERAL		1	20	25S	33E	1650'FNL & 1650'FEL	P&A
30025083860000	BUCKLES GEO L CO	FEDERAL-MARSHALL		1	21	25S	33E	660'FNL & 660'FEL	Surface
30025238950000	BTA OIL PRODUCERS, LLC	VACA DRAW UNIT SWD		1	21	25S	33E	660'FSL & 660'FEL	P&A
30025300500000	EOG RESOURCES INC	BRINNINSTOOL '21' FEDERAL		1	21	25S	33E	660'FSL & 1980'FEL	P&A
30025300500001	ENRON OIL & GAS CO	BRINNINSTOOL '21' FEDERAL		1	21	25S	33E	660'FSL & 1980'FEL	P&A
30025424140000	BTA OIL PRODUCERS, LLC	ROJO 7811 JV-P FEDERAL COM	2H	22	25S	33E	50'FSL & 430'FEL	N/A	
30025083870000	HILL & MEEKER	MUSE-FEDERAL		1	23	25S	33E	660'FSL & 660'FWL	P&A
30025400500000	EOG RESOURCES INC	CABALLO '23' FEDERAL	1H	23	25S	33E	50'FNL & 440'FWL	Surface	
30025400510000	EOG RESOURCES INC	CABALLO '23' FEDERAL	2H	23	25S	33E	50'FNL & 2200'FWL	Surface	
30025400520000	EOG RESOURCES INC	CABALLO 23 FEDERAL	3H	23	25S	33E	58'FNL & 2200'FEL	Surface	
30025400527000	EOG RESOURCES INC	CABALLO 23 FEDERAL		3	23	25S	33E	58'FNL & 2200'FEL	surface
30025402470000	EOG RESOURCES INC	CABALLO '23' FEDERAL	5H	23	25S	33E	40'FNL & 1295'FWL	Surface	
30025402480000	EOG RESOURCES INC	CABALLO '23' FEDERAL	6H	23	25S	33E	20'FNL & 1310'FEL	Surface	
30025395310000	EOG RESOURCES INC	LOMAS ROJAS STATE COM 26	1H	26	25S	33E	330'FNL & 430'FWL	surface	
30025395310100	EOG RESOURCES INC	LOMAS ROJAS STATE COM 26	1H	26	25S	33E	330'FNL & 430'FWL	surface	
30025397010000	EOG RESOURCES INC	LOMAS ROJAS 26 STATE COM	2H	26	25S	33E	330'FSL & 1850'FWL	surface	
30025397010100	EOG RESOURCES INC	LOMAS ROJAS 26 STATE COM	2H	26	25S	33E	330'FSL & 1850'FWL	surface	
30025397020000	EOG RESOURCES INC	LOMAS ROJAS 26 STATE COM	3H	26	25S	33E	330'FSL & 2262'FEL	surface	
30025397030100	EOG RESOURCES INC	LOMAS ROJAS 26 STATE COM	4H	26	25S	33E	330'FSL & 1350'FEL	surface	
30025397050000	EOG RESOURCES INC	LOMAS ROJAS 26 STATE COM		6	26	25S	33E	2620'FNL & 1810'FEL	surface
30025421570000	EOG RESOURCES INC	LOMAS ROJAS 26 STATE COM	502H	26	25S	33E	330'FSL & 905'FEL	surface	
30025227860000	DEAN ROBERT A	DICKSON HARRY		1	27	25S	33E	660'FSL & 660'FEL	P&A
30025261880000	BTA OIL PRODUCERS, LLC	7811 JV-P ROJO		1	27	25S	33E	660'FNL & 660'FWL	Surface
30025261880001	BTA OIL PRODUCERS, LLC	ROJO 7811 JV-P		1	27	25S	33E	660'FNL & 660'FWL	Surface
30025261880002	BTA OIL PRODUCERS, LLC	ROJO 7811 JV-P		1	27	25S	33E	660'FNL & 660'FWL	Surface
30025083900000	HANKAMER CURTIS CORP	CONLEY-FEDERAL		1	28	25S	33E	660'FNL & 660'FEL	P&A
30025083910000	TIDEWATER OIL CO	ANNIE R BASS-FED		1	28	25S	33E	660'FSL & 660'FEL	P&A

BTA Oil Producers, LLC  
7811 JV-P Vaca Draw Unit SWD #1  
660' FSL 660' FEL  
Section 21, T25S, R33E  
Lea County, New Mexico

Attachment to C-108

30025291910000	UNION OIL CO OF CA	RED HILLS '28' FEDERAL COM	1	28	25S	33E	2310'FNL & 2310'FEL	Surface
30025291910001	UNION OIL CO OF CA	RED HILLS '28' FEDERAL COM	1	28	25S	33E	2310'FNL & 2310'FEL	surface
30025291910002	CIMAREX ENERGY CO	RED HILLS 28 FEDERAL COM	1	28	25S	33E	2310'FNL & 2310'FEL	Surface
30025329460000	CIMAREX ENERGY CO	RED HILLS '28' FEDERAL COM	2	28	25S	33E	1980'FNL & 660'FWL	Surface
30025355980000	CIMAREX ENERGY CO	RED HILLS SWD	1	28	25S	33E	660'FSL & 660'FWL	N/A
30025423690000	CIMAREX ENERGY CO	CASCADE 28 FEDERAL	1H	28	25S	33E	330'FNL & 1310'FWL	N/A
30025423700000	CIMAREX ENERGY CO	CASCADE 28 FEDERAL	2H	28	25S	33E	330'FNL & 1330'FWL	N/A
30025423710000	CIMAREX ENERGY CO	CASCADE 28 FEDERAL	3H	28	25S	33E	330'FNL & 1350'FWL	N/A
30025423720000	CIMAREX ENERGY CO	CASCADE 28 FEDERAL	4H	28	25S	33E	180'FNL & 1350'FEL	N/A
30025423730000	CIMAREX ENERGY CO	CASCADE 28 FEDERAL	5H	28	25S	33E	180'FNL & 1330'FEL	N/A
30025423740000	CIMAREX ENERGY CO	CASCADE 28 FEDERAL	6H	28	25S	33E	180'FNL & 1310'FEL	N/A
30025083920000	TENNECO OIL CO	HW JENNINGS IUS-FED	1	29	25S	33E	1980'FNL & 660'FWL	N/A
30025403460000	CIMAREX ENERGY CO	CASCADE '29' FEDERAL	1H	29	25S	33E	330'FNL & 350'FWL	N/A
30025403460100	CIMAREX ENERGY CO	CASCADE '29' FEDERAL	1H	29	25S	33E	330'FNL & 350'FWL	N/A
30025412400000	CIMAREX ENERGY CO	CASCADE 29 FEDERAL	2H	29	25S	33E	330'FNL & 1905'FWL	N/A
30025412410000	CIMAREX ENERGY CO	CASCADE 29 FEDERAL	3H	29	25S	33E	330'FNL & 2310'FEL	Surface
30025412410100	CIMAREX ENERGY CO	CASCADE 29 FEDERAL	3H	29	25S	33E	330'FNL & 2310'FEL	Surface
30025412420000	CIMAREX ENERGY CO	CASCADE 29 FEDERAL	4H	29	25S	33E	330'FNL & 735'FEL	Surface
30025412430000	CIMAREX ENERGY CO	CASCADE 29 FEDERAL	5H	29	25S	33E	330'FNL & 580'FWL	Surface
30025412430100	CIMAREX ENERGY CO	CASCADE 29 FEDERAL	5H	29	25S	33E	330'FNL & 580'FWL	Surface
30025420310000	CIMAREX ENERGY CO	CASCADE 29 FEDERAL	7H	29	25S	33E	340'FNL & 864'FEL	Surface
30025416600000	CIMAREX ENERGY CO	RED HILLS UNIT	10H	32	25S	33E	160'FNL & 1290'FWL	Surface
30025416610000	CIMAREX ENERGY CO	RED HILLS UNIT	12H	32	25S	33E	160'FNL & 1330'FWL	Est. Surface
30025416620000	CIMAREX ENERGY CO	RED HILLS UNIT	13H	32	25S	33E	160'FNL & 2200'FEL	Est. Surface
30025416620100	CIMAREX ENERGY CO	RED HILLS UNIT	13H	32	25S	33E	160'FNL & 2200'FEL	Est. Surface
30025416630000	CIMAREX ENERGY CO	RED HILLS UNIT	14H	32	25S	33E	160'FNL & 885'FEL	Est. Surface
30025416640000	CIMAREX ENERGY CO	RED HILLS UNIT	15H	32	25S	33E	160'FNL & 865'FEL	Est. Surface
30025416730000	CIMAREX ENERGY CO	RED HILLS UNIT	11H	32	25S	33E	160'FNL & 1310'FWL	Est. Surface
30025351120000	CIMAREX ENERGY CO	RED HILLS UNIT	5	33	25S	33E	1695'FNL & 717'FWL	N/A
30025423240000	CIMAREX ENERGY CO	RED HILLS UNIT	16H	33	25S	33E	150'FNL & 1240'FWL	Est. Surface
30025423250000	CIMAREX ENERGY CO	RED HILLS UNIT	17H	33	25S	33E	150'FNL & 1260'FWL	Est. Surface
30025423260000	CIMAREX ENERGY CO	RED HILLS UNIT	19H	33	25S	33E	330'FNL & 1765'FEL	Est. Surface
30025423270000	CIMAREX ENERGY CO	RED HILLS UNIT	21H	33	25S	33E	330'FNL & 850'FEL	Est. Surface
30025423270100	CIMAREX ENERGY CO	RED HILLS UNIT	21H	33	25S	33E	330'FNL & 850'FEL	Est. Surface
30025424510000	CIMAREX ENERGY CO	RED HILLS UNIT	18H	33	25S	33E	150'FNL & 1280'FWL	Est. Surface
30025413700100	ENDEAVOR ENERGY	BATTLE AXE FEDERAL COM	2H	2	26S	33E	2260'FNL & 380'FWL	Est. Surface





**BTA Oil Producers, LLC**

**7811 JV-P Vaca Draw Unit SWD #1**

Producing Formation Map  
660'FSL & 660'FEL Sec.21,T25S,R33E  
Lea Co., New Mexico

**ATTRIBUTE MAP**

- Producing Formation Contains "DELAWARE"
- Producing Formation Contains "BELL CANYON"
- Producing Formation Contains "BONESPRIING"
- Producing Formation Contains "WOLFCAMP"
- Producing Formation Contains "ATOKA"
- Producing Formation Contains "MORROW"
- Producing Formation Contains "DEVONIAN"

**WELL SYMBOLS**

- ★ Proposed Location
- Location Only
- ◻ Drilled, Waiting on Completion
- Oil Well
- ⊙ Gas Well
- Dry Hole
- ◇ Injection Well
- ⊗ Plugged & Abandoned Gas Well
- ⊗ Plugged And Abandoned Oil and Gas Well
- ◇ Pilot Hole

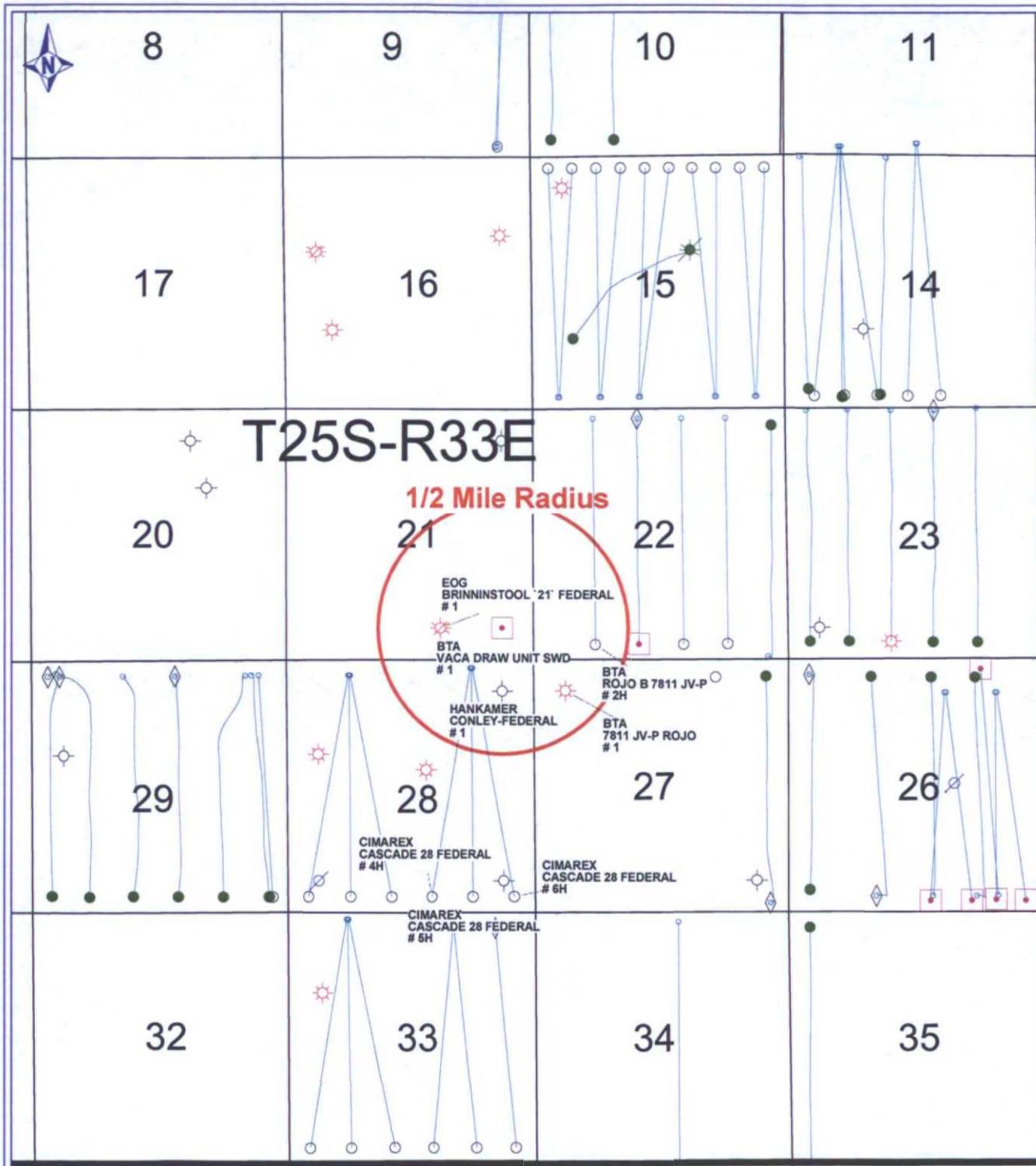
**REMARKS**

Top of Devonian Stratigraphic Cross Section Shown On Map  
Only Wells Within 2 Mile Radius Shown on Map

By: JHB

0 3,000 6,000  
FEET

April 20, 2016



**BTA** BTA Oil Producers, LLC

**7811 JV-P Vaca Draw Unit SWD #1**

1/2 Mile Radius

660'FSL & 660'FEL Sec.21, T25S, R33E

Lea Co., New Mexico

**WELL SYMBOLS**

- Location Only
- ◻ Drilled, Waiting on Completion
- Oil Well
- ☼ Gas Well
- Dry Hole
- ◇ Injection Well
- ☼ Plugged & Abandoned Gas Well
- ☼ Plugged And Abandoned Oil and Gas Well
- ◇ Pilot Hole

**REMARKS**

7811 JV-P Vaca Draw Unit SWD #1  
Highlighted in Yellow

1/2 Mile Radius Indicated in Red

Only Wells Within 2 Mile Radius Shown on Map

See Exhibit "A" For Well List

By: JHB



April 21, 2016

A

A'

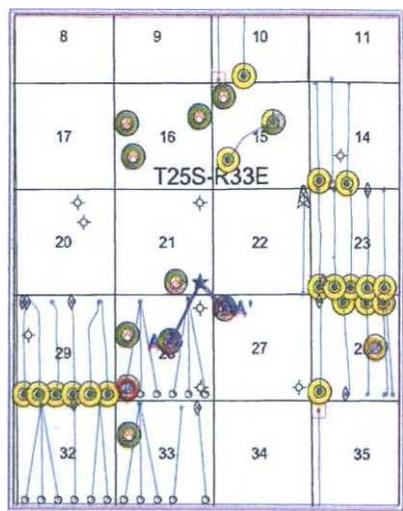
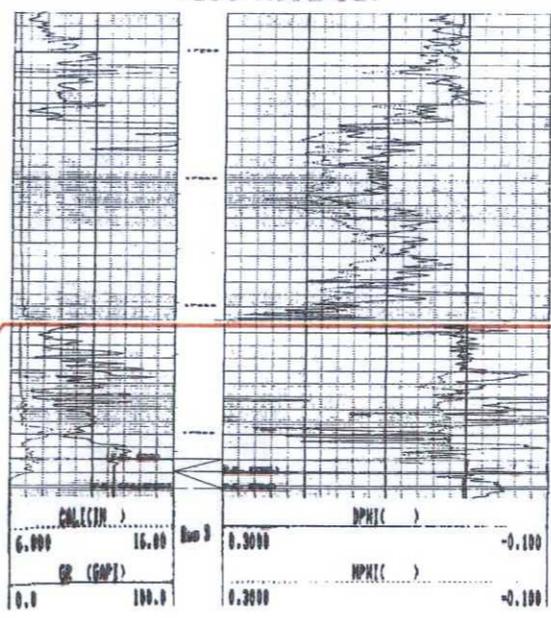
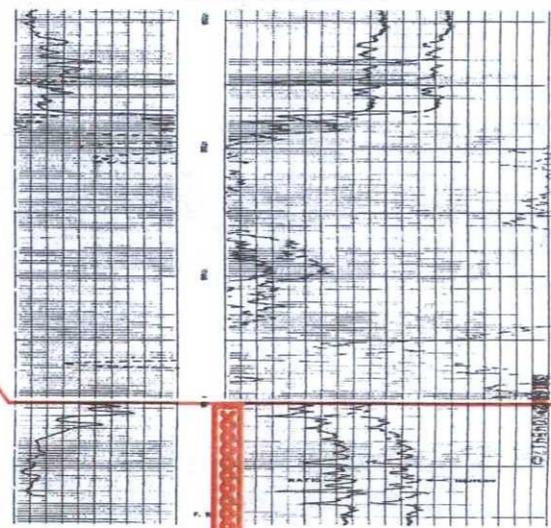
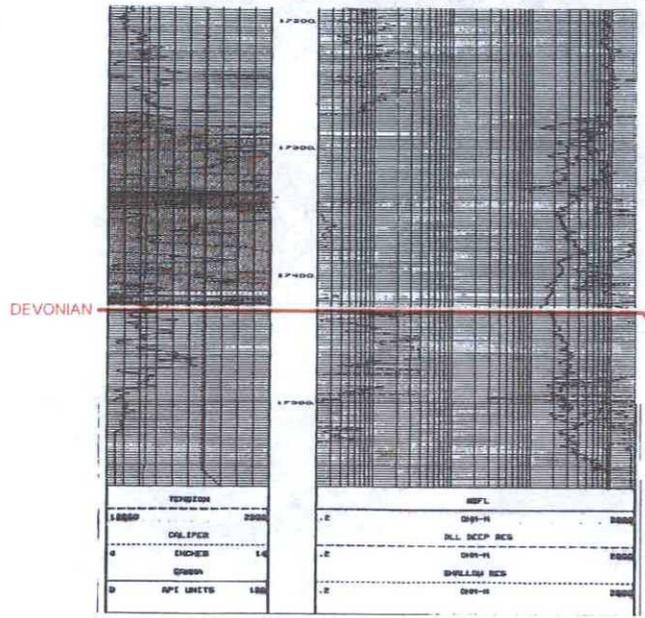
UNION  
 RED HILLS '28' FEDERAL COM  
 1  
 T25S R33E S28

BTA  
 VACA DRAW UNIT SWD  
 1  
 T25S R33E S21

BTA  
 7811 JV-P ROJO  
 1  
 T25S R33E S27

Subsea Depth(ft)  
 -13800 -  
 -13900 -  
 -14000 -  
 -14100 -  
 -14200 -  
 -14300 -  
 -14400 -

Subsea Depth(ft)  
 -13800  
 -13900  
 -14000  
 -14100  
 -14200  
 -14300

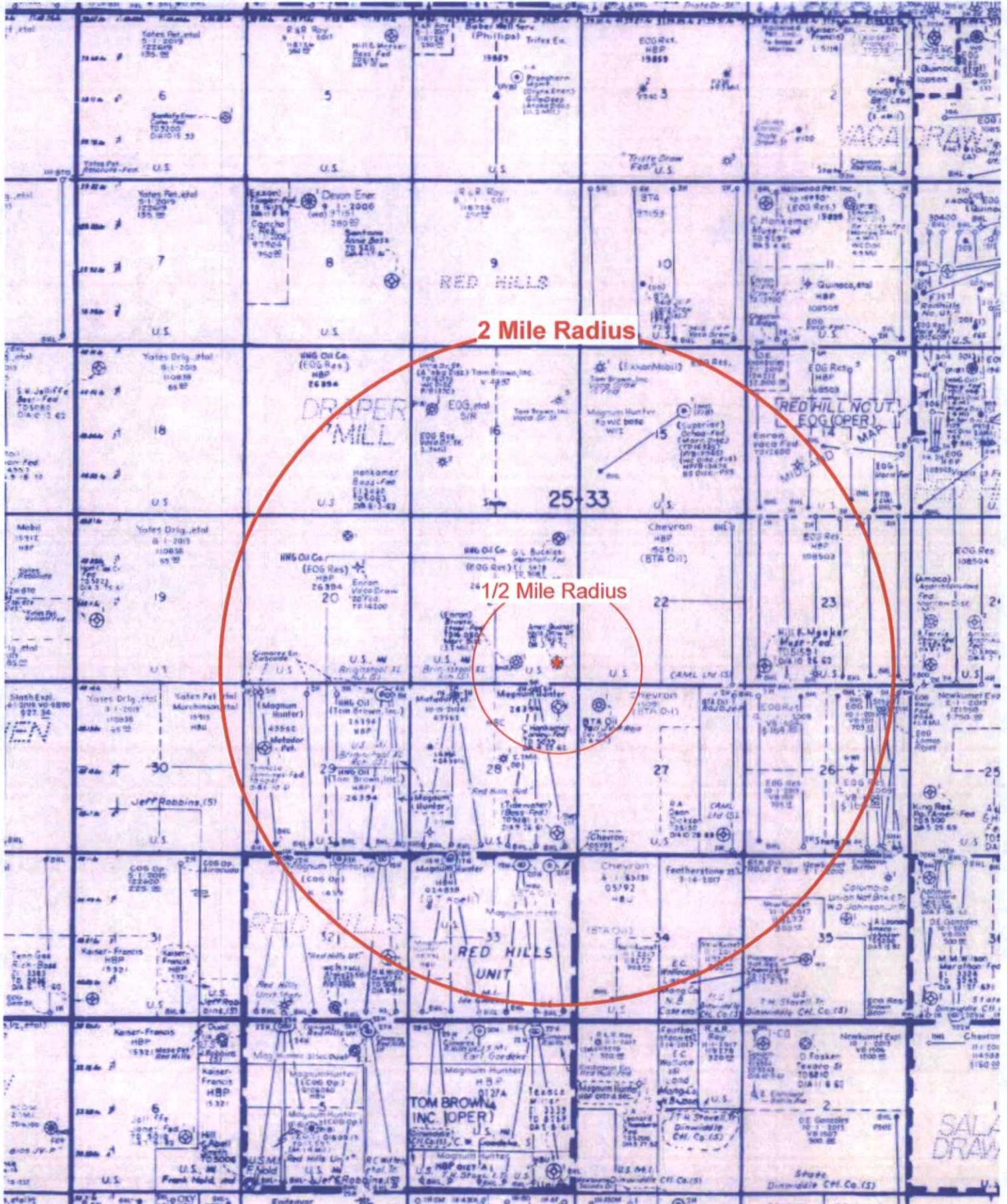


**BTA OIL PRODUCERS, LLC**  
 7811 JV-P Vaca Draw Unit SWD #1

Devonian  
 TOPS AND MARKERS  
 DEVONIAN

\*\*\* Proposed Disposal Interval Indicated In Red \*\*\*

By: JHB  
 April 1, 2015 2:36 PM



**BTA Oil Producers, LLC - 7811 JV-P Vaca Draw Unit SWD #1**  
**Wells within 1/2 mile and 2 mile radius**

BTA Oil Producers, LLC  
Application for Authorization to Inject  
7811 JV-P Vaca Draw Unit SWD #1  
657.5' FSL & 661.5' FEL  
Section 21, T25S, R33E  
Lea County, NM

Attachment to C-108

**XIII Notice of Offset Operators within ½ Mile**

**Surface Owner**

**Bureau of Land MGMT**  
620 E. Greene St.  
Carlsbad, NM 88220

**State of New Mexico**  
**Commissioner of Public Lands**  
P.O. Box 1148  
Sante Fe, NM 87504

**Offset Operator list**

**EOG Resources, Inc.**  
PO Box 5270  
Hobbs, NM 88241

**Chevron USA**  
15 Smith Rd.  
Midland, TX 79705

**Oxy USA Inc.**  
P.O. Box 50250  
Midland, TX 79710

**Cimarex Energy Company**  
600 North Marienfeld St, Suite 600  
Midland, TX 79701

**Offset Surface Owner**

**Bureau of Land MGMT**  
620 E. Greene St.  
Carlsbad, NM 88220

In addition, I hereby certify that notification of BTA's application was mailed via certified mail to the above named parties on the 2<sup>nd</sup> day of May, 2016.

  
Kayla McConnell

BTA Oil Producers, LLC  
Application for Authorization to Inject  
7811 JV-P Vaca Draw Unit SWD #1  
657.5' FSL & 661.5' FEL  
Section 21, T25S, R33E  
Lea County, New Mexico

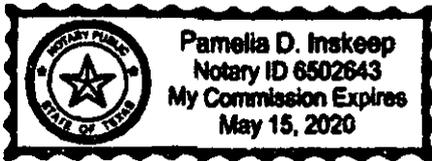
Attachment to C-108

STATE OF TEXAS

COUNTY OF MIDLAND

BEFORE ME, the undersigned authority on this day personally appeared Kayla McConnell, a Regulatory Analyst with BTA Oil Producers, LLC who being by me duly sworn, deposes and states the persons listed on the foregoing attached list have been sent a copy on May 2, 2016, of the New Mexico Oil Conservation Division Form C-108 "Application for Authorization to Inject" for the 7811 JV-P Vaca Draw Unit SWD #1, located in section 21, T25S, R33E, Lea County, New Mexico.

SUBSCRIBED AND SWORN TO before me on this 2<sup>nd</sup> day of May, 2016, to certify which witness my hand and seal of office.



*Pamela D. Inskeep*  
Pamela D. Inskeep  
Notary Public, State of Texas

# Affidavit of Publication

STATE OF NEW MEXICO  
COUNTY OF LEA

I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, 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  
March 24, 2016  
and ending with the issue dated  
March 24, 2016.



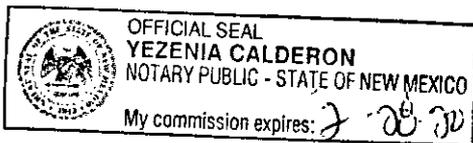
Publisher

Sworn and subscribed to before me this  
24th day of March 2016.



Circulation Coordinator

My commission expires  
February 28, 2020  
(Seal)



This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said

**LEGAL NOTICE**  
March 24, 2016

BTA OIL PRODUCERS LLC, 104 S Pecos, Midland, Texas 79701, will file form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for a salt water disposal well. The proposed well, the 7811 JV-P Vaca Draw Unit SWD #1 is located 657.5' FSL & 661.5' FEL, Section 21, T25S, R33E, Lea County, NM. Disposal water will be sourced from area wells producing from the Delaware, Bone Spring, and Wolfcamp formations. The disposal water will be injected into the Devonian and Silurian formations at a depth of 17498'-19042', at a maximum surface pressure of 3580 psi, and an average rate of 20000 BWPD.

All interested parties opposing the action must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, NM 87505, within 15 days. Additional information can be obtained by contacting Trace Wohlfahrt, Production Engineer, at 104 S Pecos, Midland, TX 79701, or (432) 682-3753.  
#30774

01101299

00172264

PAM INSKEEP  
BTA OIL PRODUCERS  
104 SOUTH PECOS  
MIDLAND, TX 79701

BTA Oil-Producers, LLC  
Application for Authorization to Inject  
7811 JV-P Vaca Draw Unit SWD #1  
657.5' FSL & 661.5' FEL  
Section 21, T25S, R33E  
Lea County, NM

Attachment to C-108

**XIII Notice of Offset Operators within ½ Mile**

**Surface Owner**

**Bureau of Land MGMT**  
620 E. Greene St.  
Carlsbad, NM 88220

**State of New Mexico**  
**Commissioner of Public Lands**  
P.O. Box 1148  
Sante Fe, NM 87504

**Offset Operator list**

**EOG Resources, Inc. \***  
PO Box 2267  
Midland, TX 79702

**Chevron USA**  
15 Smith Rd.  
Midland, TX 79705

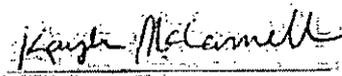
**Oxy USA Inc.**  
P.O. Box 50250  
Midland, TX 79710

**Cimarex Energy Company**  
600 North Marienfeld St, Suite 600  
Midland, TX 79701

**Offset Surface Owner**

**Bureau of Land MGMT**  
620 E. Greene St.  
Carlsbad, NM 88220

In addition, I hereby certify that notification of BTA's application was mailed via certified mail to the above named parties on the 2<sup>nd</sup> and 9<sup>th</sup> day of May, 2016.

  
Kayla McConnell

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

**Chevron USA**  
 15 Smith Rd.  
 Midland, TX 79705

2. Article Number (Transfer from service label)

9590 9403 0938 5223 1774 55

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  
*[Signature]*  Agent  Addressee

B. Received by (Printed Name) *C. Lawrence* C. Date of Delivery *5/4/16*

D. Is delivery address different from item 1?  Yes  No  
 If YES, enter delivery address below:

3. Service Type  
 Adult Signature  Priority Mail Express®  
 Adult Signature Restricted Delivery  Registered Mail™  
 Certified Mail®  Registered Mail Restricted Delivery  
 Certified Mail Restricted Delivery  Return Receipt for Merchandise  
 Collect on Delivery  Signature Confirmation®  
 Collect on Delivery Restricted Delivery  Signature Confirmation Restricted Delivery  
 Insured Mail  Signature Confirmation Restricted Delivery (over \$500)  
 Insured Mail Restricted Delivery (over \$500)

PS Form 3811, July 2015 PSN 7 7015 0640 0001 5098 1900 Return Receipt

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

**EOG Resources, Inc.**  
 PO Box 5270  
 Hobbs, NM 88241

2. Article Number (Transfer from service label)

9590 9403 0938 5223 1774 48

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  
*[Signature]*  Agent  Addressee

B. Received by (Printed Name) *Jackie Lathan* C. Date of Delivery *MAY 9 2016*

D. Is delivery address different from item 1?  Yes  No  
 If YES, enter delivery address below:

3. Service Type  
 Adult Signature  Priority Mail Express®  
 Adult Signature Restricted Delivery  Registered Mail™  
 Certified Mail®  Registered Mail Restricted Delivery  
 Certified Mail Restricted Delivery  Return Receipt for Merchandise  
 Collect on Delivery  Signature Confirmation®  
 Collect on Delivery Restricted Delivery  Signature Confirmation Restricted Delivery  
 Insured Mail  Signature Confirmation Restricted Delivery (over \$500)  
 Insured Mail Restricted Delivery (over \$500)

PS Form 3811, July 2015 PSN 7 7015 0640 0001 5098 1917 Return Receipt

7015 0640 0001 5098 1924

**U.S. Postal Service CERTIFIED MAIL® RECEIPT**  
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For delivery information, visit our website at [www.usps.com](http://www.usps.com)

**OFFICIAL USE**

Certified Mail Fee \$ 3.30

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$ 2.70

Return Receipt (electronic) \$ 3.70

Certified Mail Restricted Delivery \$ 1.70

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage \$ 2.20

Total Postage and Fees \$ 8.20

Sent To EOG Resources, Inc.  
 Street and Apt. No., or PO Box No. PO Box 2267  
 City, State, ZIP+4® Midland, TX 79702

PS Form 3800, April 2015 PSN 7015 0640 0001 5098 1924 See Reverse for Instructions

**U.S. Postal Service CERTIFIED MAIL® RECEIPT**  
 Domestic Mail Only

For delivery information, visit our website at [www.usps.com](http://www.usps.com)

**OFFICIAL USE**

Certified Mail Fee \$ 3.30

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$ 2.70

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage \$ 2.20

Total Postage and Fees \$ 8.20

Sent To Chevron USA  
 Street and Apt. No., or PO Box No. 15 Smith Rd.  
 City, State, ZIP+4® Midland, TX 79705

PS Form 3800, April 2015 PSN 7015 0640 0001 5098 1917 See Reverse for Instructions

7015 0640 0001 5098 1924

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> <li>Complete items 1, 2, and 3.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>		<p>A. Signature  <input checked="" type="checkbox"/> <i>[Signature]</i> <input type="checkbox"/> Agent  <input type="checkbox"/> Addressee</p>	
<p>1. Article Addressed to:</p> <p><b>Bureau of Land MGMT</b>          620 E. Greene St.          Carlsbad, NM 88220</p>		<p>B. Received by (Printed Name) <i>T. No. 10</i> C. Date of Delivery <i>5/5/16</i></p>	
<p>9590 9403 0938 5223 1774 93</p>		<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes          If YES, enter delivery address below: <input type="checkbox"/> No</p>	
<p>2. Article Number (Transfer from service label)</p>		<p>3. Service Type  <input type="checkbox"/> Adult Signature <input type="checkbox"/> Priority Mail Express®  <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail™  <input type="checkbox"/> Certified Mail® <input type="checkbox"/> Registered Mail Restricted Delivery  <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Return Receipt for Merchandise  <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation™  <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery  <input type="checkbox"/> Insured Mail <input type="checkbox"/> Signature Confirmation Restricted Delivery (over \$500)  <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</p>	
<p>PS Form 3811, July 2015 PSN 7015 0640 0001 5098 1863 Return Receipt</p>			

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> <li>Complete items 1, 2, and 3.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>		<p>A. Signature  <input checked="" type="checkbox"/> <i>[Signature]</i> <input type="checkbox"/> Agent  <input type="checkbox"/> Addressee</p>	
<p>1. Article Addressed to:</p> <p><b>Cimarex Energy Company</b>          600 North Marienfeld St, Suite 600          Midland, TX 79701</p>		<p>B. Received by (Printed Name) <i>Scott Wilson</i> C. Date of Delivery <i>5-4-16</i></p>	
<p>9590 9403 0938 5223 1774 79</p>		<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes          If YES, enter delivery address below: <input type="checkbox"/> No</p>	
<p>2. Article Number (Transfer from service label)</p>		<p>3. Service Type  <input type="checkbox"/> Adult Signature <input type="checkbox"/> Priority Mail Express®  <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail™  <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Registered Mail Restricted Delivery  <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Return Receipt for Merchandise  <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation™  <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery  <input type="checkbox"/> Insured Mail <input type="checkbox"/> Signature Confirmation Restricted Delivery (over \$500)  <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</p>	
<p>PS Form 3811, July 2015 PSN 7015 0640 0001 5098 1887 Return Receipt</p>			

7015 0640 0000 0490 5100

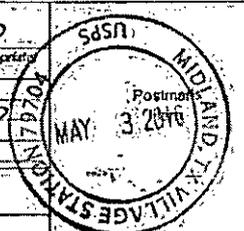
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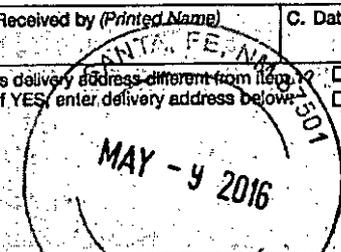
U.S. Postal Service™	
<b>CERTIFIED MAIL® RECEIPT</b> Domestic Mail Only	
For delivery information, visit our website at <a href="http://www.usps.com">www.usps.com</a>	
<b>OFFICIAL USE</b>	
Certified Mail Fee	\$ 3.30
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$ 2.70
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$ 2.20
Total Postage and Fees	\$ 8.20
Sent To	<b>Bureau of Land MGMT</b>
Street and Apt. No., or PO Box No.	620 E. Greene St.
City, State, ZIP+4®	Carlsbad, NM 88220
PS Form 3800, April 2015 PSN 7500 0200 0001 See Reverse for Instructions	

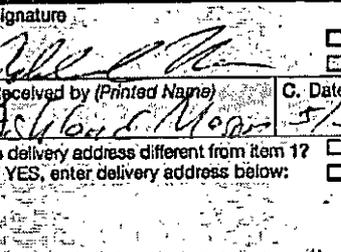
7015 0640 0001 5098 1887

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For delivery information, visit our website at <a href="http://www.usps.com">www.usps.com</a>	
<b>OFFICIAL USE</b>	
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<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$ 2.70
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$ 2.20
Total Postage and Fees	\$ 8.20
Sent To	<b>Cimarex Energy Company</b>
Street and Apt. No., or PO Box No.	600 North Marienfeld St, Suite 600
City, State, ZIP+4®	Midland, TX 79701
PS Form 3800, April 2015 PSN 7500 0200 0001 See Reverse for Instructions	



SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> <li>Complete items 1, 2, and 3.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>	<p>A. Signature  <input checked="" type="checkbox"/> Signature  <input type="checkbox"/> Agent  <input type="checkbox"/> Addressed</p> <p>B. Received by (Printed Name)            C. Date of Delivery</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes            If YES, enter delivery address below: <input type="checkbox"/> No</p>
<p>1. Article Addressed to:</p> <p>State of New Mexico            Commissioner of Public Land            P.O. Box 1148            Sante Fe, NM 87504</p>	
<p>9590 9403 0938 5223 1774 88</p>	
<p>2. Article Number (Transfer from service label)</p>	<p>3. Service Type</p> <p><input type="checkbox"/> Adult Signature  <input type="checkbox"/> Adult Signature Restricted Delivery  <input checked="" type="checkbox"/> Certified Mail®  <input type="checkbox"/> Certified Mail Restricted Delivery  <input type="checkbox"/> Collect on Delivery  <input type="checkbox"/> Collect on Delivery Restricted Delivery  <input type="checkbox"/> Insured Mail  <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</p> <p><input type="checkbox"/> Priority Mail Express®  <input type="checkbox"/> Registered Mail™  <input type="checkbox"/> Registered Mail Restricted Delivery  <input type="checkbox"/> Return Receipt for Merchandise  <input type="checkbox"/> Signature Confirmation®  <input type="checkbox"/> Signature Confirmation Restricted Delivery</p>
<p>PS Form 3811, July 2015 P 7015 0640 0001 5098 1870 c Return Receipt</p>	

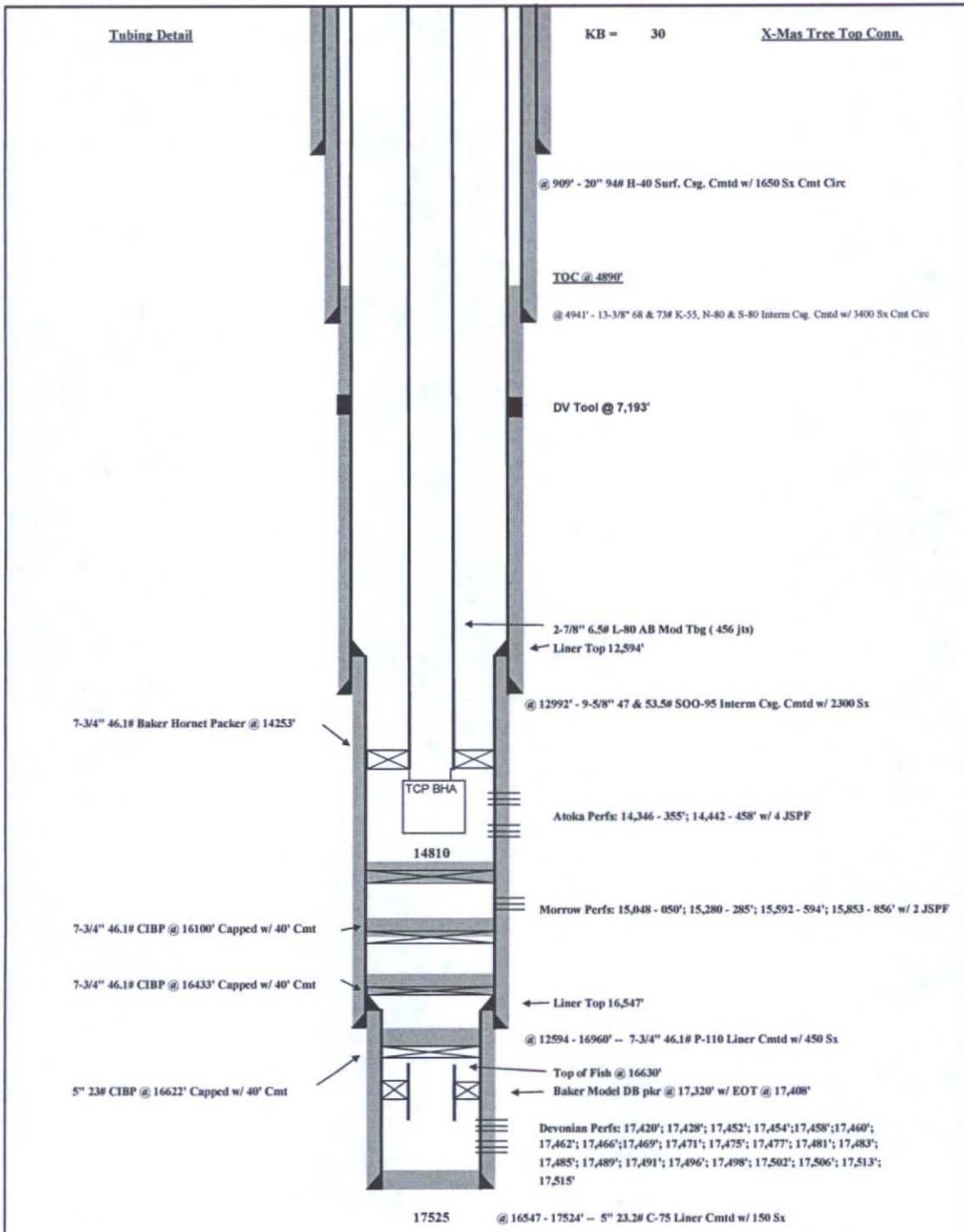
SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> <li>Complete items 1, 2, and 3.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>	<p>A. Signature  <input checked="" type="checkbox"/> Signature  <input type="checkbox"/> Agent  <input type="checkbox"/> Addressed</p> <p>B. Received by (Printed Name)            C. Date of Delivery</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes            If YES, enter delivery address below: <input type="checkbox"/> No</p>
<p>1. Article Addressed to:</p> <p>Oxy USA Inc.            P.O. Box 50250            Midland, TX 79710</p>	
<p>9590 9403 0938 5223 1774 62</p>	
<p>2. Article Number (Transfer from service label)</p>	<p>3. Service Type</p> <p><input type="checkbox"/> Adult Signature  <input type="checkbox"/> Adult Signature Restricted Delivery  <input checked="" type="checkbox"/> Certified Mail®  <input type="checkbox"/> Certified Mail Restricted Delivery  <input type="checkbox"/> Collect on Delivery  <input type="checkbox"/> Collect on Delivery Restricted Delivery  <input type="checkbox"/> Insured Mail  <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</p> <p><input type="checkbox"/> Priority Mail Express®  <input type="checkbox"/> Registered Mail™  <input type="checkbox"/> Registered Mail Restricted Delivery  <input type="checkbox"/> Return Receipt for Merchandise  <input type="checkbox"/> Signature Confirmation®  <input type="checkbox"/> Signature Confirmation Restricted Delivery</p>
<p>PS Form 3811, July 2015 P 7015 0640 0001 5098 1894 Domestic Return Receipt</p>	

7015 0640 0001 5098 1894

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Certified Mail Fee	\$ 3.30
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$ 2.70
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$ 2.20
Total Postage and Fees	\$ 8.20
Sent To	Oxy USA Inc.
Street and Apt. No., or PO Box No.	P.O. Box 50250
City, State, ZIP+4®	Midland, TX 79710
PS Form 3860, April 2015 PSN 7530-0200-9071 See Reverse for Instructions	

7015 0640 0001 5098 1870

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<b>OFFICIAL USE</b>	
Certified Mail Fee	\$ 3.30
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$ 2.70
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$ 2.20
Total Postage and Fees	\$ 8.20
Sent To	State of New Mexico
Street and Apt. No., or PO Box No.	Commissioner of Public Land
City, State, ZIP+4®	P.O. Box 1148
PS Form 3860, April 2015 PSN 7530-0200-9071 See Reverse for Instructions	



Revised	Producing Well		Drawn	TJW
	7811 JV-P Rojo #1		4/17/2009	
	LEASE:	Red Hills (Atoka)		
	FIELD:	660' FNL 660' FWL Sec. 27 T25S R33E		
	LOCATION:	Lea STATE: New Mexico	Approved	
	COUNTY:	Morrow	Date	
	PRODUCING FORMATION:			
	 <b>BTA Oil Producers</b>			



**BTA OIL PRODUCERS, LLC**

104 SOUTH PECOS STREET  
MIDLAND, TEXAS 79701-5021  
432-682-3753  
FAX 432-683-0311

CARLTON BEAL, JR.  
BARRY BEAL  
SPENCER BEAL  
KELLY BEAL  
BARRY BEAL, JR.  
STUART BEAL  
ROBERT DAVENPORT, JR.

**GULF COAST DISTRICT**  
TOTAL PLAZA  
1201 LOUISIANA STREET, STE. 570  
HOUSTON, TEXAS 77002  
713-658-0077 FAX 713-655-0346

**ROCKY MOUNTAIN DISTRICT**  
600 17TH STREET, STE. 2230 SOUTH  
DENVER, COLORADO 80202  
303-534-4404 FAX 303-534-4661

May 2, 2016

Re: Amended Application for Authorization to Inject  
7811 JV-P Vaca Draw Unit SWD #1  
Administrative Order SWD-1571  
657.5' FSL & 661.5' FEL  
Section 21, T25S, R33E  
Lea County, New Mexico

NEW MEXICO OIL CONSERVATION COMMISSION  
OIL CONSERVATION DIVISION  
Attn: Mr. Phillip Goetze  
1220 South St. Francis Drive  
Santa Fe, NM 87505

2016 MAY - 4 P 3: 19  
RECEIVED OGD

Dear Mr. Goetze,

BTA Oil Producers, LLC hereby seeks approval to amend the existing Authorization to Inject for the above referenced location. We are proposing to re-enter this P&A well and convert into an injection well. We also plan to utilize this well as a commercial disposal.

After further review of deep water disposal in Lea County, BTA would like to extend the injection interval from Devonian to Devonian/Silurian. This would entail deepening the wellbore to a TD of 19042', approved permit is for a TD of 17909'. BTA believes this will increase the likelihood of finding porosity that will accept disposal water. Upon additional review of the existing wellbore, it is also requested to make a casing exit of the 10-3/4" existing string in the Wolfcamp formation, drill to the top of the Devonian, set 7" protective casing and finish drilling the injection interval (Devonian/Silurian) with 6" hole, leaving the injection interval open hole for injection. If sufficient injection capacity is discovered, the 7" will then be tied back to surface and 4.5" lined injection tubing installed for injection purposes (details in procedure). The casing exit strategy will then isolate the existing wellbore and provide a new casing string from surface to top of injection zone.

BTA has notified all offset Operators and the Surface Owner of our intentions by certified mail, as well as published a Legal Notice in the Hobbs Daily News-Sun. The Affidavit of Publication is attached and we will forward copies of the signed "green card" PS form 3811 certifications as soon as all are received back.

Should further information be required to approve this application, please advise.

Respectfully,

Kayla McConnell  
BTA Oil Producers, LLC

## **McMillan, Michael, EMNRD**

---

**From:** Kayla McConnell <KMcConnell@btaoil.com>  
**Sent:** Thursday, May 05, 2016 12:08 PM  
**To:** McMillan, Michael, EMNRD  
**Subject:** FW: UIC Question

---

**From:** McMillan, Michael, EMNRD [mailto:Michael.McMillan@state.nm.us]  
**Sent:** Friday, March 18, 2016 11:50 AM  
**To:** Kayla McConnell <KMcConnell@btaoil.com>  
**Cc:** Goetze, Phillip, EMNRD <Phillip.Goetze@state.nm.us>; Jones, William V, EMNRD <WilliamV.Jones@state.nm.us>; Lowe, Leonard, EMNRD <Leonard.Lowe@state.nm.us>  
**Subject:** RE: UIC Question

It would be considered a major modification, and you would have to submit a new application.

Thank You

### **Michael A. McMillan**

Engineering and Geological Services Bureau, Oil Conservation Division  
1220 South St. Francis Dr., Santa Fe NM 87505  
O: 505.476.3448 F. 505.476.3462  
[Michael.mcmillan@state.nm.us](mailto:Michael.mcmillan@state.nm.us)

---

**From:** Kayla McConnell [mailto:KMcConnell@btaoil.com]  
**Sent:** Friday, March 18, 2016 8:26 AM  
**To:** McMillan, Michael, EMNRD  
**Subject:** UIC Question

Good morning.

I had a question about amending injection permits. Will we need to file a new C-108 and notifications to deepen wellbore and add a formation?

Thank you,

**Kayla McConnell**  
BTA Oil Producers LLC  
Office: 432-682-3753  
Fax: 432-683-0325



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)  
(quarters are smallest to largest)

(NAD83 UTM in meters) (In feet)

POD Number	POD Sub-Code	basin	County	Q	Q	Q	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 02313			LE	2	3	3	26	25S	33E	636971	3552098*	150	110	40

Average Depth to Water: 110 feet

Minimum Depth: 110 feet

Maximum Depth: 110 feet

**Record Count: 1**

**PLSS Search:**

Section(s): 20-22, 26-28      Township: 25S      Range: 33E

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



C-108 Review Checklist: Received 5/14/2016 Add. Request: 5/27/2016 Reply Date: \_\_\_\_\_ Suspended: \_\_\_\_\_ [Ver 15]

ORDER TYPE: WFX / PMX / SWD Number: 1571A Order Date: \_\_\_\_\_ Legacy Permits/Orders: SWD-1571

Well No. 1 Well Name(s): 78-11-30-P UACA New SWD #1

API: 30-0 25-23895 Spud Date: 10/2/15 New or Old: N (UIC Class II Primacy 03/07/1982)

Footages 660FSL 660FEL Lot \_\_\_\_\_ or Unit P Sec 21 Tsp 2SS Rge 33E County LEC

General Location: 220 miles W JAI Pool: SWD, Devonian Pool No.: 96101

BLM 100K Map: JAI Operator: BTA Oil Producing, LLC OGRID: 260297 Contact: Mc Connell

COMPLIANCE RULE 5.9: Total Wells: 156 Inactive: 4 Fincl Assur: Y Compl. Order? MA IS 5.9 OK? Y Date: 5/23/2016

WELL FILE REVIEWED  Current Status: P&A

WELL DIAGRAMS: NEW: Proposed  or RE-ENTER: Before Conv.  After Conv.  Logs in Imaging: Y

Planned Rehab Work to Well: run CBL new drill 12500-17498

Well Construction Details	Sizes (in)		Setting		Cement Sx or Cf	Cement Top and Determination Method
	Borehole / Pipe		Depths (ft)	Stage Tool		
Planned ___ or Existing ___ Surface	<u>24/20</u>		<u>920</u>		<u>1530</u>	<u>SURFACE/VISUAL</u>
Planned ___ or Existing ___ Interm/Prod	<u>17 1/2 / 13 3/4</u>		<u>4986</u>		<u>3200</u>	<u>SURFACE/VISUAL</u>
Planned ___ or Existing ___ Interm/Prod	<u>12 1/4 / 10 3/4</u>		<u>1264</u>		<u>2100</u>	<u>SURFACE/VISUAL</u>
Planned ___ or Existing ___ Prod/Liner	<u>8 3/4 7"</u>		<u>12550</u>		<u>620</u>	<u>12550/SURFACE</u>
Planned ___ or Existing ___ Liner						
Planned ___ or Existing ___ OH / PERF	<u>17498 / 15042</u>			<u>1544</u>		
Injection Lithostratigraphic Units:				Completion/Operation Details:		
Adjacent Unit: Litho. Struc. Por.		Depths (ft)	Injection or Confining Units	Tops	Drilled TD <u>17604</u>	PBTD <u>17599</u>
Confining Unit: Litho. Struc. Por.			<u>new</u>	<u>17498</u>	NEW TD <u>19042</u>	NEW PBTD <u>19042</u>
Proposed Inj Interval TOP:					NEW Open Hole <input checked="" type="checkbox"/>	NEW Perfs <input type="checkbox"/>
Proposed Inj Interval BOTTOM:					Tubing Size <u>32</u> in.	Inter Coated? <u>Y</u>
Confining Unit: Litho. Struc. Por.					Proposed Packer Depth <u>17498</u> ft	
Adjacent Unit: Litho. Struc. Por.					Min. Packer Depth <u>17388</u> (100-ft limit)	
AOR: Hydrologic and Geologic Information				Proposed Max. Surface Press. <u>3500</u> psi		
POTASH: R-111-P <u>MA</u> Noticed? <input type="checkbox"/> BLM Sec Ord <input type="checkbox"/> WIPP <input type="checkbox"/> Noticed? <input type="checkbox"/> Salt/Salado T: _____ B: _____ NW: Cliff House fm _____				Admin. Inj. Press. <u>3500</u> (0.2 psi per ft)		
FRESH WATER: Aquifer <u>Quaternary</u> Max Depth <u>110</u> HYDRO AFFIRM STATEMENT By Qualified Person <input checked="" type="checkbox"/>						
NMOSE Basin: <u>Carlsbad</u> CAPITAN REEF: thru adj <u>NA</u> No. Wells within 1-Mile Radius? <u>0</u> FW Analysis						
Disposal Fluid: Formation Source(s) <u>Bone Springs, Delaware</u> Analysis? <u>Y</u> On Lease <input type="checkbox"/> Operator Only <input type="checkbox"/> or Commercial <input checked="" type="checkbox"/>						
Disposal Int: Inject Rate (Avg/Max BWPD): <u>204/256</u> Protectable Waters? _____ Source: _____ System: Closed or Open						
HC Potential: Producing Interval? <u>NA</u> Formerly Producing? _____ Method: Logs <input checked="" type="checkbox"/> P&A/Other <u>test</u> 2-Mile Radius Pool Map <input type="checkbox"/>						
AOR Wells: 1/2-M Radius Map? <u>Y</u> Well List? _____ Total No. Wells Penetrating Interval: <u>2</u> Horizontals? <u>0</u>						
Penetrating Wells: No. Active Wells <u>1</u> Num Repairs? _____ on which well(s)? _____ Diagrams? _____						
Penetrating Wells: No. P&A Wells <u>1</u> Num Repairs? _____ on which well(s)? _____ Diagrams? _____						

NOTICE: Newspaper Date whohow, 2014 Mineral Owner BLM Surface Owner BLM N. Date MA 4/23/2014

RULE 26.7(A): Identified Tracts? \_\_\_\_\_ Affected Persons: EOU, Dxy, Cimarex N. Date MA 4/23/2016

Order Conditions: Issues: D-V tool AT base of WOLF CAMP FORMATION

Add Order Cond: \_\_\_\_\_

## McMillan, Michael, EMNRD

---

**From:** Kayla McConnell <KMcConnell@btaoil.com>  
**Sent:** Monday, May 23, 2016 3:36 PM  
**To:** McMillan, Michael, EMNRD  
**Subject:** RE: UIC Question/Vaca Draw Unit SWD Well No. 1

Michael,

Thank you, I talked to our Drilling Manager, he agreed to the DV tool stipulation and we plan to run a CBL to the referenced depth.

Thank you,  
Kayla McConnell

---

**From:** McMillan, Michael, EMNRD [mailto:Michael.McMillan@state.nm.us]  
**Sent:** Monday, May 23, 2016 9:25 AM  
**To:** Kayla McConnell <KMcConnell@btaoil.com>  
**Subject:** RE: UIC Question/Vaca Draw Unit SWD Well No. 1

Kayla:

I spoke with Will Jones, and he recommended approval of the Vaca Draw SWD Well No. 1 with the stipulation that BTA run a DV tool at the base of the Wolfcamp formation.  
I will also require a CBL through the liner to 12000 feet.

Call me with questions or concerns  
Mike

---

**From:** Kayla McConnell [mailto:KMcConnell@btaoil.com]  
**Sent:** Thursday, May 05, 2016 12:08 PM  
**To:** McMillan, Michael, EMNRD  
**Subject:** FW: UIC Question

---

**From:** McMillan, Michael, EMNRD [mailto:Michael.McMillan@state.nm.us]  
**Sent:** Friday, March 18, 2016 11:50 AM  
**To:** Kayla McConnell <KMcConnell@btaoil.com>  
**Cc:** Goetze, Phillip, EMNRD <Phillip.Goetze@state.nm.us>; Jones, William V, EMNRD <WilliamV.Jones@state.nm.us>;  
Lowe, Leonard, EMNRD <Leonard.Lowe@state.nm.us>  
**Subject:** RE: UIC Question

It would be considered a major modification, and you would have to submit a new application.

Thank You