

DATE IN 5/08/2016	SUSPENSE	ENGINEER	LOGGED IN 5/08/2016	TYPE SWD	APP NO. DMA 41612650809
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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 _____

[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

redo the injection sheet w/ WY 15 neg.

*SWD-1571-A
 BTA Oil Producers, LLC
 260297*

*Well
 - Vaca Draw Unit
 SWD #1
 30-025-23895
 Pool
 Devonian
 SWD, BTA
 96101*

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage
Application qualifies for administrative approval? X 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 X No
If yes, give the Division order number authorizing the project: _____
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
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: kmccconnell@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.

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

(API 30-025-23895)

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 DATASurface Casing

(Original)

Hole Size: 24" Casing Size: 20"

Cemented with: 1550 sx. or ft³

Top of Cement: Surface Method Determined: Circ.

Intermediate Casing

(Original)

Hole Size: 17-1/2" Casing Size: 13-3/8"

Cemented with: 3200 sx. or ft³

Top of Cement: Surface Method Determined: Circ.

Production Casing

(Original/Proposed*)

Hole Size: 12-1/4" Casing Size: 10-3/4"

Cemented with: 2100 sx. or ft³

DV tool @ 4965' DV tool @ 6601'

Top of Cement: Surface Method Determined: Circ.

Total Depth: 17,909' (Exit casing @ 12,690'*)

Injection Interval

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

(Perforated or Open Hole; indicate which)

Side 1A

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* _____ ft³

Top of Cement: _____ Method Determined: _____

Other

(Proposed)

Hole Size: 6" Casing Size: Open Hole

Cemented with: _____ SX. *or* _____ ft³

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

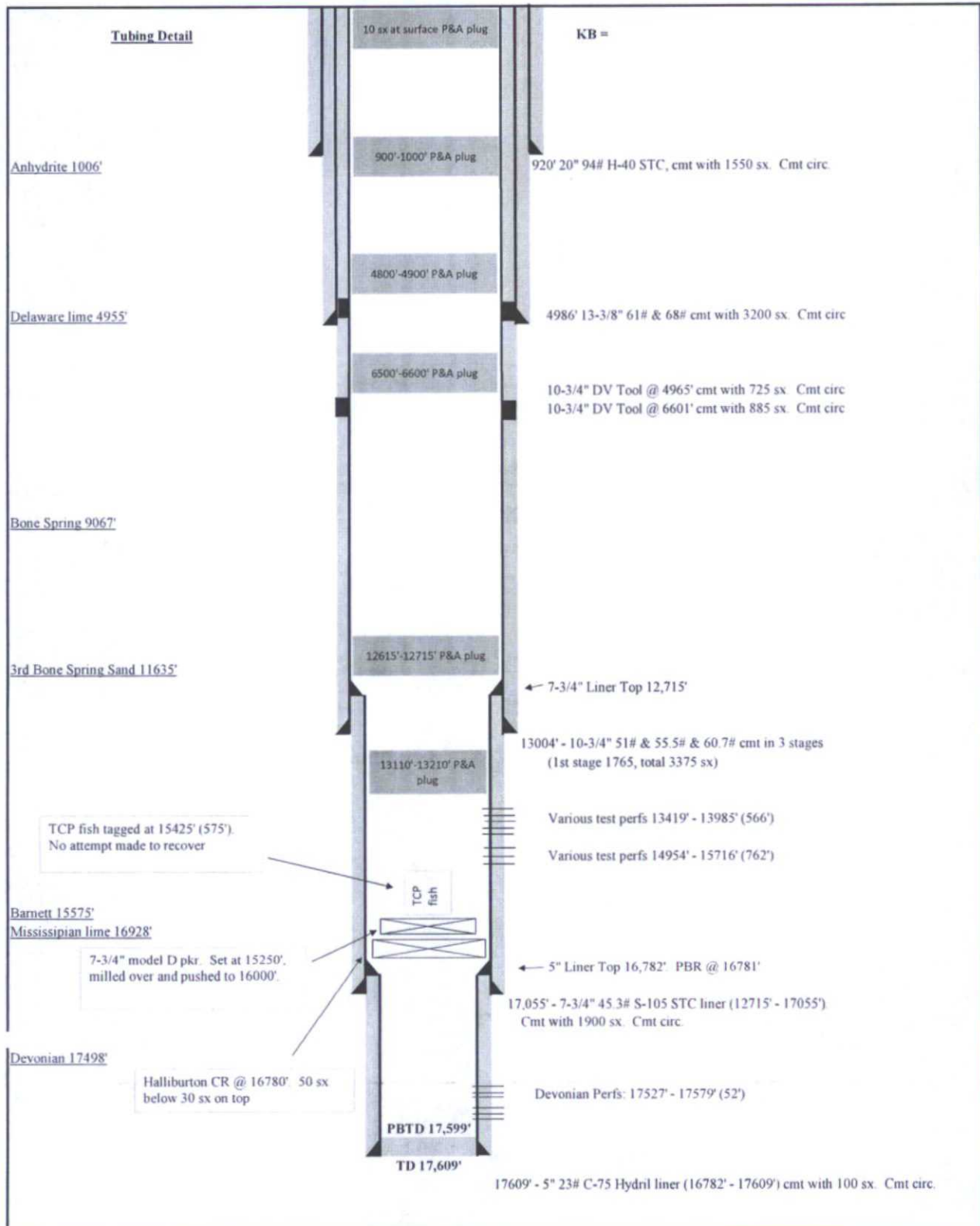
P&A 2-20-1973

2. Name of the Injection Formation: Siluro-Devonian

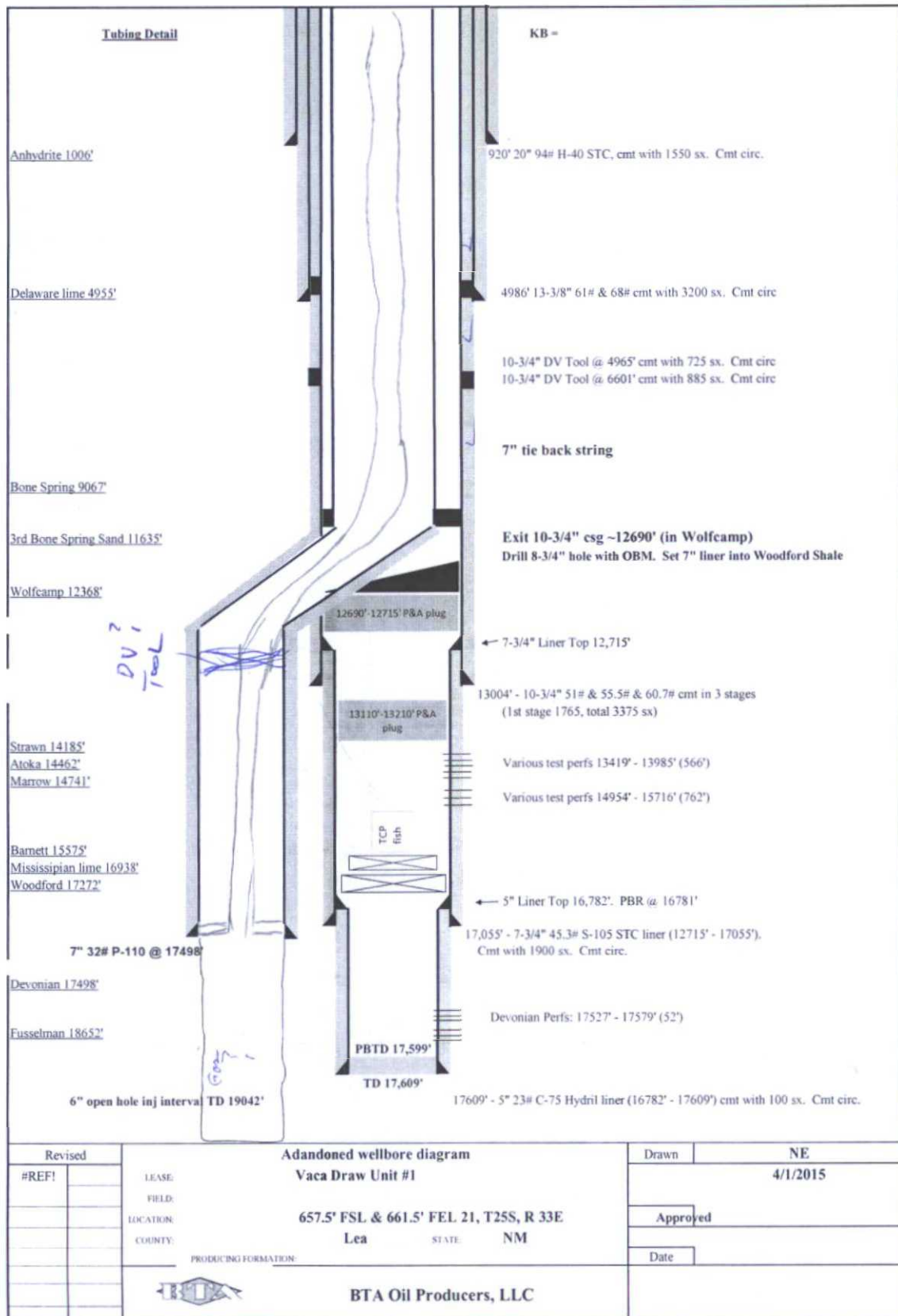
3. Name of Field or Pool (if applicable): _____

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				Date
	LOCATION	STATE: NM				
	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

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

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
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 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
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

- 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 ₃	264			
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃	48,800			
Calcium as Ca	6,640			
Magnesium as Mg	535			
Sodium and/or Potassium	39,583			
Sulfate as SO ₄	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.

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

Martin Water Laboratories, Inc.

COPY

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

RESULT OF WATER ANALYSES

TO: Mr. Tom Williams
104 South Pecos, Midland, TX 79701-5099

LABORATORY NO. 89713
SAMPLE RECEIVED 8-5-97
RESULTS REPORTED 8-6-97

COMPANY BTA Oil Producers
LEASE Mesa #1 8105

FIELD OR POOL
SECTION 1 BLOCK SURVEY 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 ₃	390			
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃	720			
Calcium as Ca	232			
Magnesium as Mg	34			
Sodium and/or Potassium	7.483			
Sulfate as SO ₄	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				
Filtrable 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.

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	

Bone Spring Produced Water

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 ₃)	
Magnesium (Mg)		Bicarbonate (HCO ₃)	88
Barium (Ba)		Hydroxide (OH)	
Manganese (Mn)		Hydrogen Sulfide (H ₂ S)	
Strontium (Sr)		Carbon Dioxide (CO ₂)	
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)

CONFIDENTIAL

										(R=POD has been replaced and no longer serves this file, C=the file is closed)									
										(quarters are 1=NW 2=NE 3=SW 4=SE)									
										(quarters are smallest to largest) (NAD83 UTM in meters)									
</																			

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

(NAD83 UTM in meters) (In feet)

POD Sub-	Q	Q	Q	Code basin	County	64	16	4	Sec	Tws	Range	X	Y	Depth Well	Depth Water	Water Column
	LE	2	3	3	26	25S	33E					636971	3552098*	150	110	40

POD Number

C 02313

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.

5/20/15 7:11 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER

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
 Attachement to C-108

VI. AOR Well Data

Well Name	Operator	Location	Type of Well	Spud Date	Comp Date	TD/ PBDT	Comp Interval	Producing Formation	Casing Program				Plugging Detail
									Casing	Depth	Amt Cmt	Circ	
Vaca Draw Unit #1 API: 30-025-23895	American Quasar	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 1000'-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

COPYUNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPL
(Other instructions on re-
verse side)Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

LC-068847

6. IF INDIAN, ALLOTTED OR TRIBE NAME

7. UNIT AGREEMENT NAME

VACA DRAM

8. FARM OR LEASE NAME

VACA DRAM UNIT

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Undesignated11. SEC., T., R., M., OR BLE. AND
SURVEY OR AREA**Sec. 21, T-25-S, R-33-E**

14. PERMIT NO.

30-025-23895

15. ELEVATIONS (Show whether DF, RT, CR, etc.)

3392' RT

12. COUNTY OR PARISH

Lea

13. STATE

N.M.

16.

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(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' at 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

Ed 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 in-
structions on
reverse side)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input checked="" type="checkbox"/> Other <u>24A</u>		3. LEASE DESIGNATION AND SERIAL NO. <u>LC-040347</u>		
2. TYPE OF COMPLETION: NEW WELL <input type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> Other _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
2. NAME OF OPERATOR <u>American Quasar Petroleum Co., of New Mexico</u>		7. UNIT AGREEMENT NAME <u>VACA DRAW</u>		
3. ADDRESS OF OPERATOR <u>604 Vaughn Blvd., Midland, Texas 79701</u>		8. FARM OR LEASE NAME <u>VACA DRAW UNIT</u>		
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface <u>660' FSL & 660' FSL of Sec. 21, T-25-S, R-33-S</u> At top prod. interval reported below: <u>Not Surveyed</u> At total depth <u>Not Surveyed</u>		9. WELL NO. <u>1</u>		
14. PERMIT NO.		10. FIELD AND POOL, OR WILDCAT <u>Undesignated</u>		
DATE ISSUED		11. SEC., T., R., & N. ON BLOCK AND SURVEY OR AREA <u>Sec. 21, T-25-S, R-33-S</u>		
15. DATE SPUNDED <u>10/2/71</u>		12. COUNTY OR PARISH <u>Lee</u>		
16. DATE T.D. REACHED <u>3/3/73</u>		13. STATE <u>N.M.</u>		
17. DATE COMPL. (Report complete) <u>11/13/72</u>		19. ELEV. CASINGHEAD <u>3366 Tbs head</u>		
18. ELEVATIONS (OF, RKB, RT, GR, ETC.)* <u>3392 KB</u>		20. TOTAL DEPTH, MD & TVD <u>17.609</u>		
21. PLUG BACK T.D., MD & TVD <u>14.720</u>		22. IF MULTIPLE COMPL. HOW MANY*		
23. INTERVALS DRILLED BY		24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* <u>13,419 - 13,983 Not commercial</u>		
25. TYPE ELECTRIC AND OTHER LOGS RUN <u>Schlumberger</u>		26. WAS DIRECTIONAL SURVEY MADE <u>NO</u>		
27. WAS WELL CORED <u>NO</u>		28. WAS WELL CURED <u>NO</u>		
29. CASING RECORD (Report all strings set in well)				
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	
30"	Conductor	30' below	Gr. 34"	
24"	94.0	970	28"	
17 3/8"	61.0 & 68.0	4986	17 1/2"	
19 1/4"	51.0, 55.0, 60.7	13,044	13 1/4"	
CEMENTING RECORD				
AMOUNT PULLED				
Ready-mix concrete				0
1250 sx - circ.				0
1200 sx - circ.				0
1175 sx - circ.				0
30. TUBING RECORD				
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	
7 3/4"	12,715	17,035	1900	
5"	16,782	17,609	100	
31. PERFORATION RECORD (Interval, size and number) <u>13,419 - 13,985, 1 3/16", 13 holes</u>				
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.				
DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED		
13,419-13,985		3000 galn. 20% Acid		
33.* PRODUCTION				
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)		
DATE OF TEST		WELL STATUS (Producing or shut-in) <u>P&A</u>		
HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	
GAS—MCF.	WATER—BBL.	GAS-OIL RATIO		
FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	
GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)		
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 <u>J. L. Collins</u>		TITLE <u>President</u>		
DATE <u>3/7/73</u>				

*(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

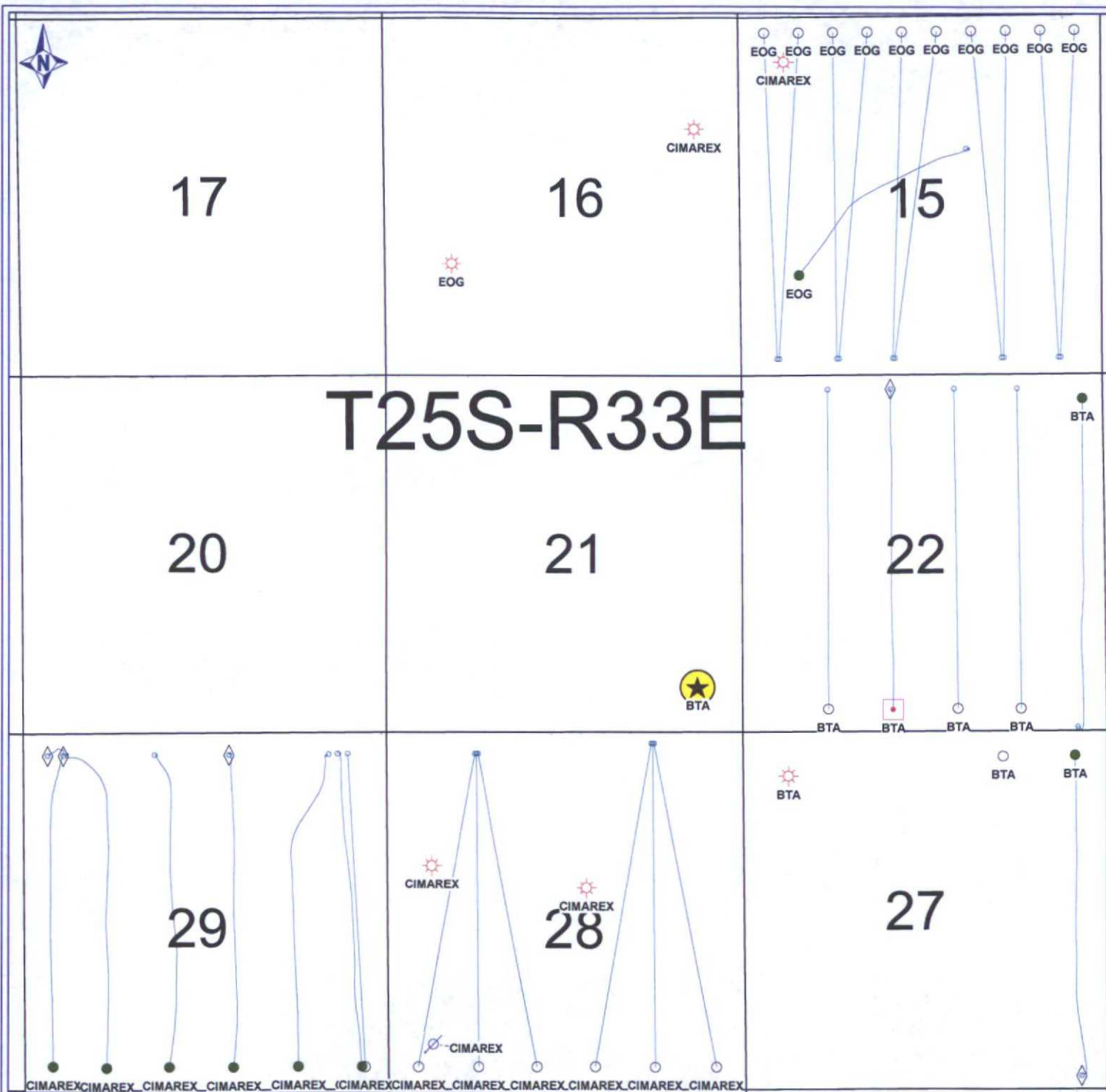
Exhibit "A" - 2 Mile Radius

API #	Operator	Well Name	Well No.	Sec	Twn	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

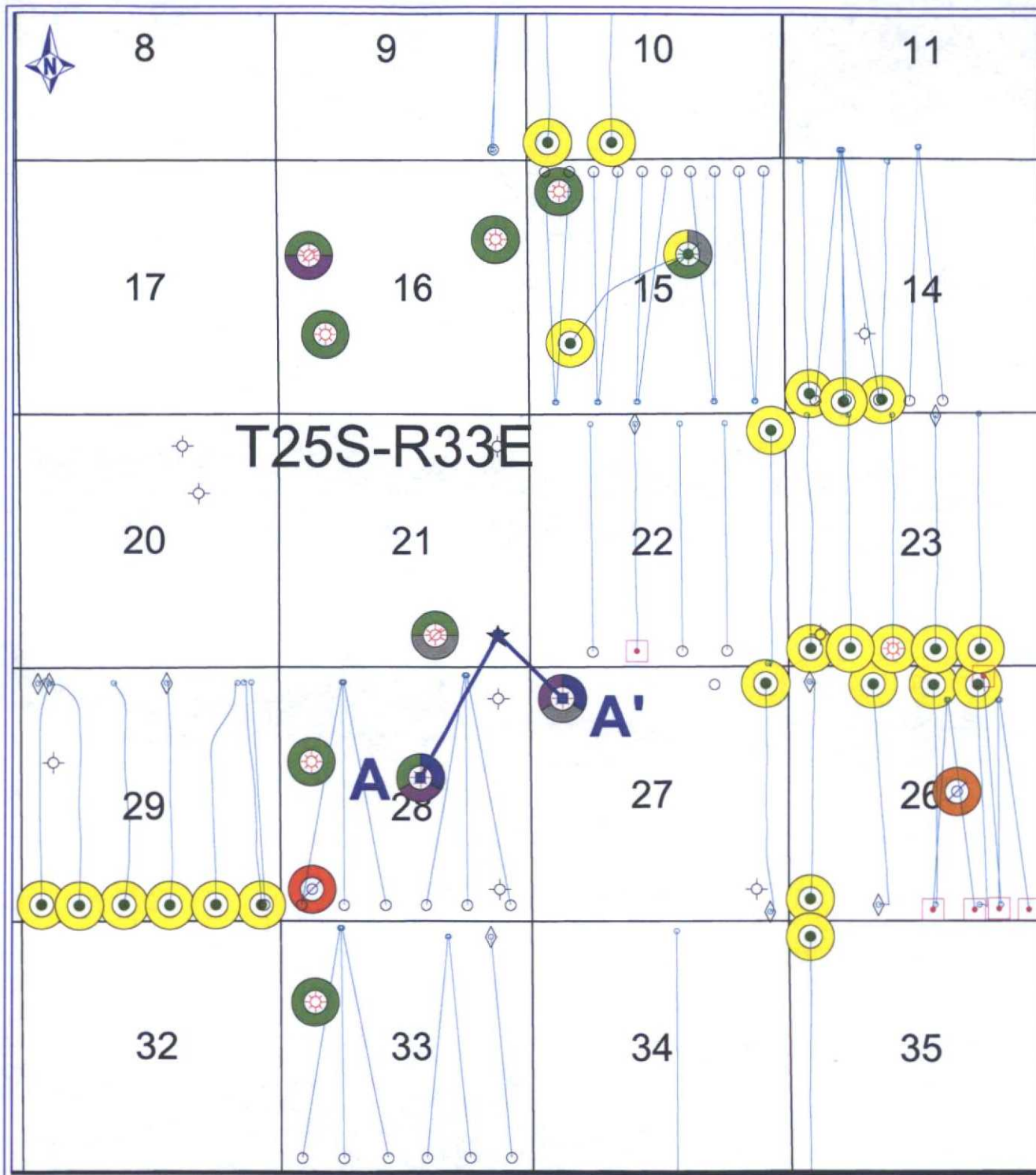
BTA Oil Producers, LLC
7811 JV-P Vaca Draw Unit SWD #1
660' FSL 660' FEL
Section 21, T25S, R33E
Lea County, New Mexico

Attachment to C-108

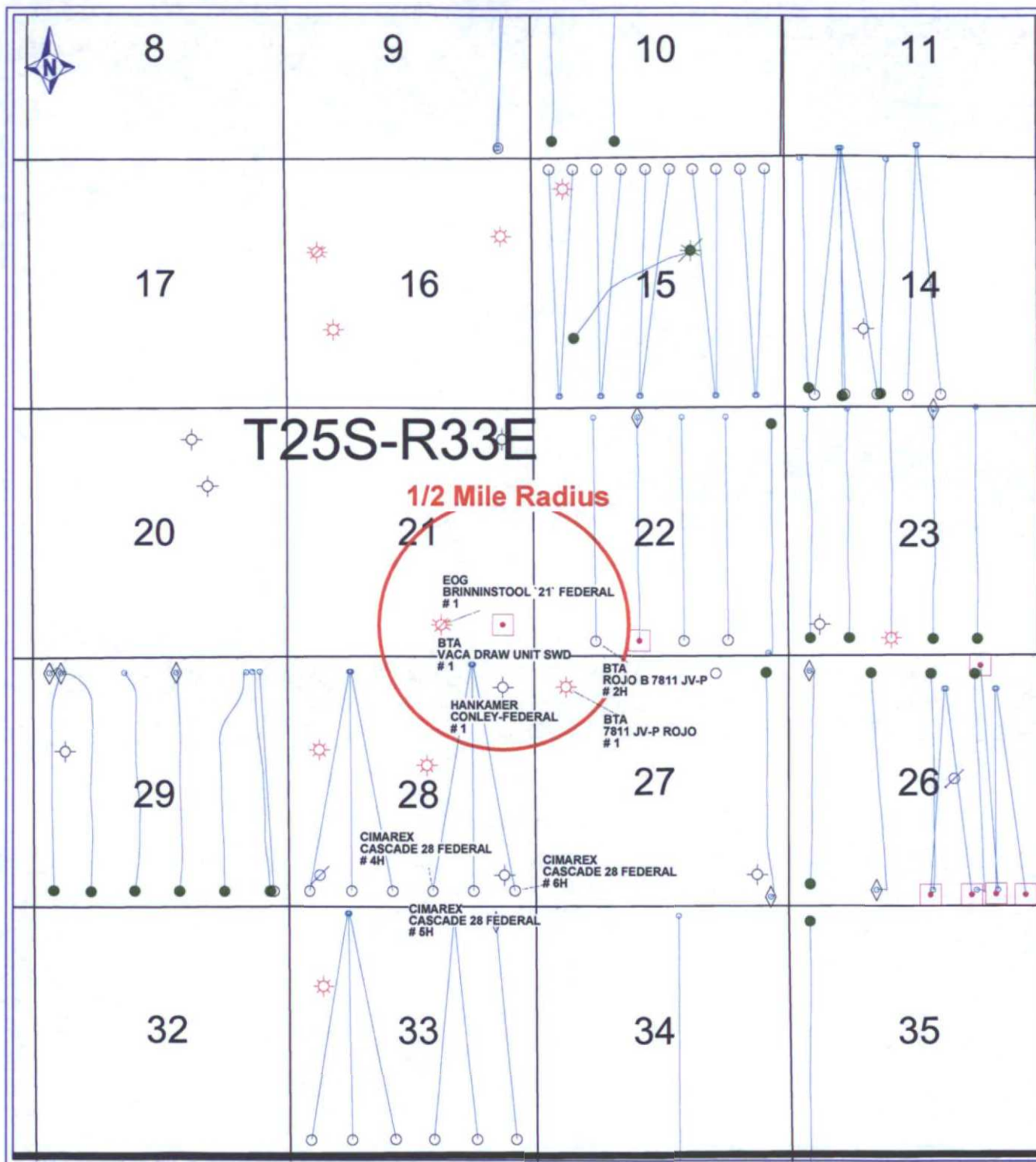
30025291910000	UNION OIL CO OF CA	RED HILLS '28' FEDERAL COM	1	28	25S	33E	2310'FNL & 2310'FEL	Surface
30025291910001	UNION OIL CO OF CA	RED HILLS '28' FEDERAL COM	1	28	25S	33E	2310'FNL & 2310'FEL	surface
30025291910002	CIMAREX ENERGY CO	RED HILLS '28' FEDERAL COM	1	28	25S	33E	2310'FNL & 2310'FEL	Surface
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 BTA Oil Producers, LLC
7811 JV-P Vaca Draw Unit SWD #1
Active Operator Map
660'FSL & 660'FEL Sec.21,T25S,R33E
Lea Co., New Mexico
WELL SYMBOLS ★ Proposed Location ○ Location Only ◻ Drilled, Waiting on Completion ● Oil Well ☼ Gas Well ⚡ Injection Well ◇ Pilot Hole
REMARKS *** Only Active Locations Shown on Map ***
By: JHB
0 2,000 4,000 FEET
April 20, 2016



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 <div style="display: flex; align-items: center;"> <ul style="list-style-type: none"> ● Producing Formation Contains "DELAWARE" ● Producing Formation Contains "BELL CANYON" ● Producing Formation Contains "BONESPRING" ● Producing Formation Contains "WOLFCAMP" ● Producing Formation Contains "ATOKA" ● Producing Formation Contains "MORROW" ● Producing Formation Contains "DEVONIAN" </div>	
WELL SYMBOLS <ul style="list-style-type: none"> ★ 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	
<div style="text-align: center;"> <p>0 3,000 6,000 FEET</p> </div>	
April 20, 2016	



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



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

Subsea
Depth(ft)
- -13800

- -13900

- -14000

- -14100

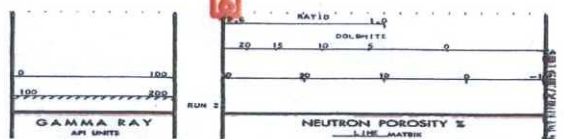
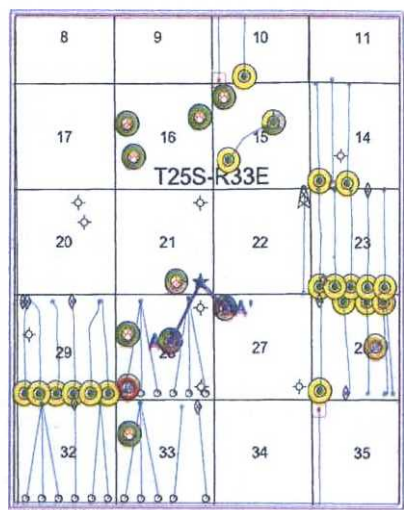
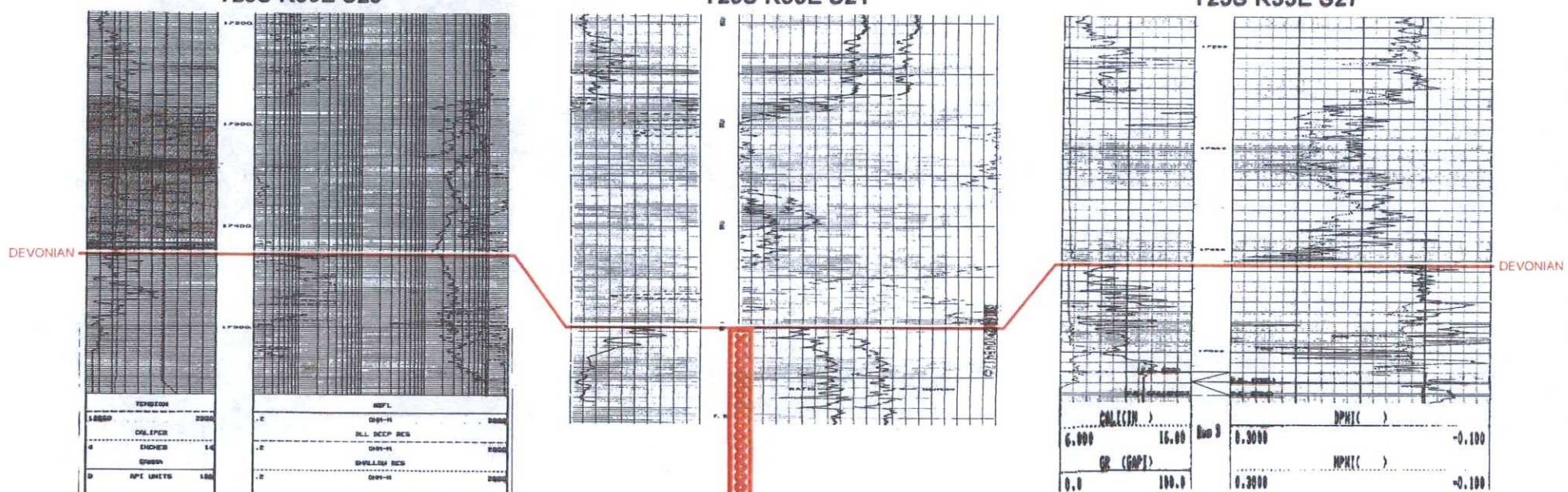
- -14200



- -14300

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

★
BTA
VACA DRAW UNIT SWD
1
T25S R33F S21


BTA
7811 JV-P ROJO
1
T25S R33E S27



 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	



Wells within ½ 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
Santa 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 2nd 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

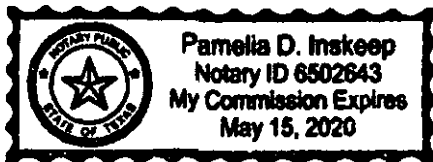
Attachment to C-108

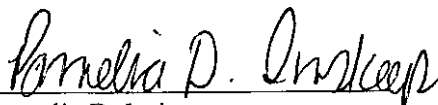
STATE OF TEXAS

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 2nd day of May, 2016, to certify which witness my hand and seal of office.




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.



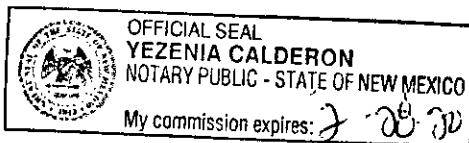
Publisher

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 1/2 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
Santa 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 2nd and 9th day of May, 2016.


Kayla McConnell

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<p>■ Complete items 1, 2, and 3.</p> <p>■ Print your name and address on the reverse so that we can return the card to you.</p> <p>■ Attach this card to the back of the mailpiece, or on the front if space permits.</p>		<p>A. Signature  <input type="checkbox"/> Agent <input type="checkbox"/> Address</p> <p>B. Received by (Printed Name) <u>C. Lawrence</u> C. Date of Delivery <u>5/4/16</u></p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes <input type="checkbox"/> No If YES, enter delivery address below:</p>	
<p>1. Article Addressed to:</p> <p>Chevron USA 15 Smith Rd. Midland, TX 79705</p>			
<p>2. Article Number (Transfer from service label)</p> <p>9590 9403 0938 5223 1774 55</p>		<p>3. Service Type</p> <p><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 1900 Return Receipt</p>			

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<p>■ Complete items 1, 2, and 3.</p> <p>■ Print your name and address on the reverse so that we can return the card to you.</p> <p>■ Attach this card to the back of the mailpiece, or on the front if space permits.</p>		<p>A. Signature  <input type="checkbox"/> Agent <input type="checkbox"/> Address</p> <p>B. Received by (Printed Name) <u>Jackie LaBar</u> C. Date of Delivery <u>May 9 2016</u></p> <p>D. Is delivery address different from item 1? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If YES, enter delivery address below:</p>	
<p>1. Article Addressed to:</p> <p>EOG Resources, Inc. PO Box 5270 Hobbs, NM 88241</p>		<p>3. Service Type</p> <p><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>2. Article Number (Transfer from service label)</p> <p>9590 9403 0938 5223 1774 48</p>		<p>PS Form 3811, July 2015 PSN 7015 0640 0001 5098 1917 Return Receipt</p>	

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For delivery information, visit our website at www.usps.com	
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<p>Certified Mail Fee <u>3.30</u></p> <p>Extra Services & Fees (check box, add fee as appropriate)</p> <p><input type="checkbox"/> Return Receipt (hardcopy) \$ <u>2.30</u></p> <p><input type="checkbox"/> Return Receipt (electronic) \$ <u>3.30</u></p> <p><input type="checkbox"/> Certified Mail Restricted Delivery \$ <u>1.70</u></p> <p><input type="checkbox"/> Adult Signature Required \$</p> <p><input type="checkbox"/> Adult Signature Restricted Delivery \$</p> <p>Postage <u>2.20</u></p> <p>Total Postage and Fees <u>8.20</u></p> <p>Sent To <u>EOG Resources, Inc.</u></p> <p>Street and Apt. No., or PO Box No. <u>PO Box 2267</u></p> <p>City, State, ZIP+4® <u>Midland, TX 79702</u></p>	<p>Postmark Here</p> <p>INDIAN VILLAGE STA TX 79704</p>
PS Form 3800, April 2015 PSN 7530 0100 3047 See Reverse for Instructions	

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For delivery information, visit our website at www.usps.com	
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<p>Certified Mail Fee <u>3.30</u></p> <p>Extra Services & Fees (check box, add fee as appropriate)</p> <p><input type="checkbox"/> Return Receipt (hardcopy) \$</p> <p><input type="checkbox"/> Return Receipt (electronic) \$</p> <p><input type="checkbox"/> Certified Mail Restricted Delivery \$ <u>2.70</u></p> <p><input type="checkbox"/> Adult Signature Required \$</p> <p><input type="checkbox"/> Adult Signature Restricted Delivery \$</p> <p>Postage <u>2.20</u></p> <p>Total Postage and Fees <u>8.20</u></p> <p>Sent To <u>Chevron USA</u></p> <p>Street and Apt. No., or PO Box No. <u>15 Smith Rd.</u></p> <p>City, State, ZIP+4® <u>Midland, TX 79705</u></p>	<p>Postmark Here</p> <p>INDIAN VILLAGE STA TX 79704</p>
PS Form 3800, April 2015 PSN 7530 0100 3047 See Reverse for Instructions	

7015 0640 0001 5098 1924

0061 9605 1000 0490 5717

SENDER: COMPLETE THIS SECTION

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- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

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

9590 9403 0938 5223 1774 93

2. Article Number (Transfer from service label)

PS Form 3811, July 2015 PSN

7015 0640 0001 5098 1863

Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *[Signature]*☐ Agent☐ Addressee

B. Received by (Printed Name)

T. V. ...

C. Date of Delivery

5/5/16

D. Is delivery address different from item 1?

If YES, enter delivery address below:

☐ Yes☐ No

3. Service Type

- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☐ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over \$500)

- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Return Receipt for Merchandise
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

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:

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

9590 9403 0938 5223 1774 79

2. Article Number (Transfer from service label)

PS Form 3811, July 2015 PSN

7015 0640 0001 5098 1887

Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *[Signature]*☐ Agent☐ Addressee

B. Received by (Printed Name)

S. ...

C. Date of Delivery

5-4-16

D. Is delivery address different from item 1?

If YES, enter delivery address below:

☐ Yes☐ No

3. Service Type

- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☐ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over \$500)

- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Return Receipt for Merchandise
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

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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

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

PS Form 3800, April 2015 PSN 7530-02-000-9001 See Reverse for Instructions

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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

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

PS Form 3800, April 2015 PSN 7530-02-000-9001 See Reverse for Instructions

7015 0640 0001 5098 1863

7015 0640 0001 5098 1887

SENDER: COMPLETE THIS SECTION

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- 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:

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

9590 9403 0938 5223 1774 88

2. Article Number (Transfer from service label)

PS Form 3811, July 2015 P

7015 0640 0001 5098 1870

c Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

- ☐ Agent
☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

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

3. Service Type

- ☐ Adult Signature
☐ Adult Signature Restricted Delivery
☒ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Insured Mail
☐ Insured Mail Restricted Delivery (over \$500)
- ☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Return Receipt for Merchandise
☐ Signature Confirmation®
☐ Signature Confirmation Restricted Delivery

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:

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

9590 9403 0938 5223 1774 62

2. Article Number (Transfer from service label)

PS Form 3811, July 2015

7015 0640 0001 5098 1894

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

- ☐ Agent
☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

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

3. Service Type

- ☐ Adult Signature
☐ Adult Signature Restricted Delivery
☒ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Insured Mail
☐ Insured Mail Restricted Delivery (over \$500)
- ☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Return Receipt for Merchandise
☐ Signature Confirmation®
☐ Signature Confirmation Restricted Delivery

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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

Oxy USA Inc.

Street and Apt. No., or P.O. Box No.

P.O. Box 50250

City, State, ZIP+4®

Midland, TX 79710

PS Form 3800, April 2015 PSN 7500-02-000-9071 See Reverse for Instructions

U.S. Postal Service
CERTIFIED MAIL® RECEIPT

Domestic Mail Only

For delivery information, visit our website at 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

State of New Mexico

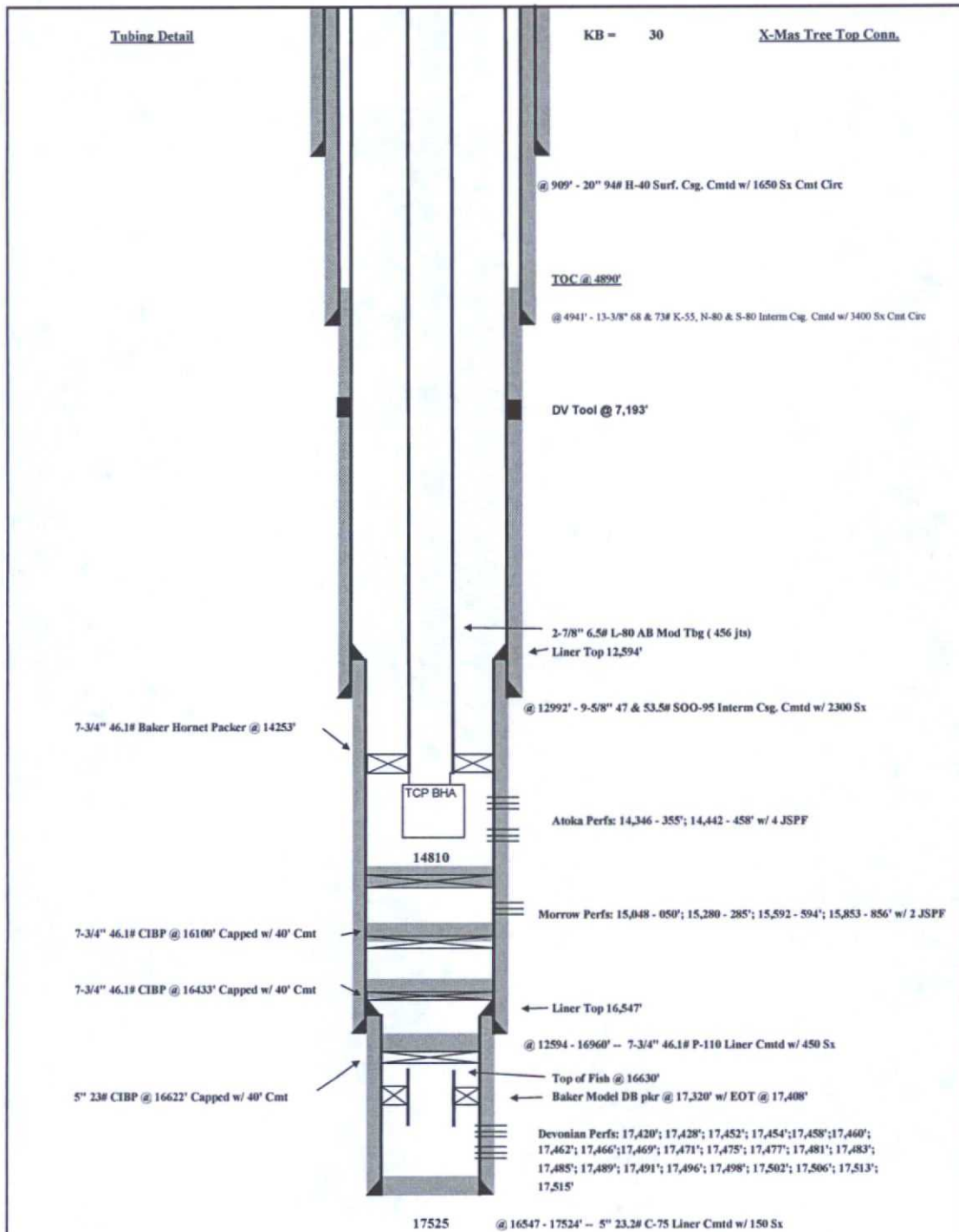
Street and Apt. No., or P.O. Box No.

Commissioner of Public Land

City, State, ZIP+4®

P.O. Box 1148

PS Form 3800, April 2015 PSN 7500-02-000-9071 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 T2S R33E			
	LOCATION:	Lea			Approved
	COUNTY:	STATE: New Mexico			
	PRODUCING FORMATION:			Date	
	Morrow				
					
	BTA Oil Producers				



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, T2SS, 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

RECEIVED GGP
2016 MAY - 4 P 3: 19

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

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														
Sub-														
Q Q Q														
POD Number	Code	basin	County	64	16	4	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: 5/22/2016 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-JU-P UACHA SWD#1

API: 30-0 25-23895 Spud Date: 10/2/1971 New or Old: N (UIC Class II Primacy 03/07/1982)

Footages: 660FSL 660FEL Lot: P or Unit: 21 Sec: 21 Tsp: 28S 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: 260277 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: PFA

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

Planned Rehab Work to Well: 14m CBL new drill 12500-17498

Well Construction Details		Sizes (in)	Setting	Cement	Cement Top and Determination Method
		Borehole / Pipe	Depths (ft)	Sx or Cf	
Planned ___ or Existing ___ Surface	24/20	920	Stage Tool	1530	SURFACE/VISUAL
Planned ___ or Existing ___ Interm/Prod	17 1/2 / 13 3/8	4986		3200	SURFACE/VISUAL
Planned ___ or Existing ___ Interm/Prod	12 1/4 / 10 3/4	1264		2100	SURFACE/VISUAL
Planned ___ or Existing ___ Prod/Liner	8 3/4 "	12550		620	12550/SURFACE
Planned ___ or Existing ___ Liner					
Planned ___ or Existing ___ OH / PERF	17498 / 1842		Inj Length	1344	
Completion/Operation Details:					
Injection Lithostratigraphic Units:		Depths (ft)	Injection or Confining Units	Tops	
Adjacent Unit: Litho. Struc. Por.			DEV	17498	Drilled TD 17604 PBTD 17599
Confining Unit: Litho. Struc. Por.			W 6	17270	NEW TD 19042 NEW PBTD 19042
Proposed Inj Interval TOP:					NEW Open Hole <input checked="" type="radio"/> or NEW Perfs <input type="radio"/>
Proposed Inj Interval BOTTOM:					Tubing Size 32 in. Inter Coated? Y
Confining Unit: Litho. Struc. Por.					Proposed Packer Depth 17498 ft
Adjacent Unit: Litho. Struc. Por.					Min. Packer Depth 17388 (100-ft limit)
					Proposed Max. Surface Press. 3500 psi
					Admin. Inj. Press. 3500 (0.2 psi per ft)

AOR: Hydrologic and Geologic Information

POTASH: R-111-P MA Noticed? BLM Sec Ord ☐ WIPP ☐ Noticed? Salt/Salado T: B: NW: Cliff House fmFRESH WATER: Aquifer Quaternary Max Depth 110 HYDRO AFFIRM STATEMENT By Qualified Person ☒

NMOSE Basin: CARLSBAD CAPITAN REEF: thru adj NA No. Wells within 1-Mile Radius? 0 FW Analysis

Disposal Fluid: Formation Source(s) Bunk Springs, Delaware Analysis? Y On Lease ☐ Operator Only ☐ or Commercial ☒

Disposal Int: Inject Rate (Avg/Max BWPD): 204/256 Protectable Waters? Source: System: Closed or Open

HC Potential: Producing Interval? N/A Formerly Producing? Method: Logs ☒ VFA/Other 1457 2-Mile Radius Pool Map ☐

AOR Wells: 1/2-M Radius Map? Y Well List? Total No. Wells Penetrating Interval: 2 Horizontals? 0

Penetrating Wells: No. Active Wells 1 Num Repairs? on which well(s)? Diagrams?

Penetrating Wells: No. P&A Wells 1 Num Repairs? on which well(s)? Diagrams?

NOTICE: Newspaper Date 4/14/2016 Mineral Owner BLM Surface Owner BLM N. Date MAY 2016

RULE 26.7(A): Identified Tracts? Affected Persons: EOL, Dry, Cimarron N. Date MAY 2016

Order Conditions: Issues: D-V tool at base of Wolfcamp 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]
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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

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Thank You