

DATE IN <u>6/02/15</u>	SUSPENSE	ENGINEER <u>PRG</u>	LOGGED IN <u>6/3/15</u>	TYPE <u>SWD</u>	APP NO. <u>JAG 15154554</u>	<u>20</u>
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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



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] SWD - 1571
operator: BTA Oil Producers LLC
well: Pre-origaid well
API: 30-025-23895
- [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

5/21/2015
 Date

kmccconnell@btaoil.com
 e-mail Address

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 APT: 30-025-23895
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: 5/20/2015
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, LLCWELL NAME & NUMBER: 7811 JV-P Vaca Draw Unit SWD #1WELL LOCATION: 660' FSL & 660' FEL, Sec. 21, T25S, R33E, Lea County, NM

FOOTAGE LOCATION

UNIT LETTER

SECTION

TOWNSHIP

RANGE

WELLBORE SCHEMATICWELL CONSTRUCTION DATASurface CasingHole Size: 24" Casing Size: 20"Cemented with: 1550 SX. or ft³Top of Cement: Surface Method Determined: Circ.Intermediate CasingHole Size: 17-1/2" Casing Size: 13-3/8"Cemented with: 3200 SX. or ft³Top of Cement: Surface Method Determined: Circ.Production CasingHole 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'Injection IntervalProposed 17,498' feet to 17,909' (Perforated & Open Hole)

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

OPERATOR: BTA Oil Producers, LLCWELL NAME & NUMBER: 7811 JV-P Vaca Draw Unit SWD #1WELL LOCATION: 660' FSL & 660' FEL, Sec. 21, T25S, R33E, Lea County, NM

FOOTAGE LOCATION

UNIT LETTER

SECTION

TOWNSHIP

RANGE

WELLBORE SCHEMATICWELL CONSTRUCTION DATALiner

Hole Size: _____ Liner Size 7-3/4"
Cemented with: 1900 sx. or _____ ft³
Top of Cement: _____ Method Determined: _____

Other

Hole Size: _____ Casing Size: 5"
Cemented with: 100 sx. or _____ ft³
Top of Cement: _____ Method Determined: _____

Injection Interval

Proposed 17,498' feet to 17,909' (Perforated & 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: 17,500'

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

Additional Data

1. Is this a new well drilled for injection? _____ Yes ☒ No

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

P&A 2-20-1973

2. Name of the Injection Formation: Devonian

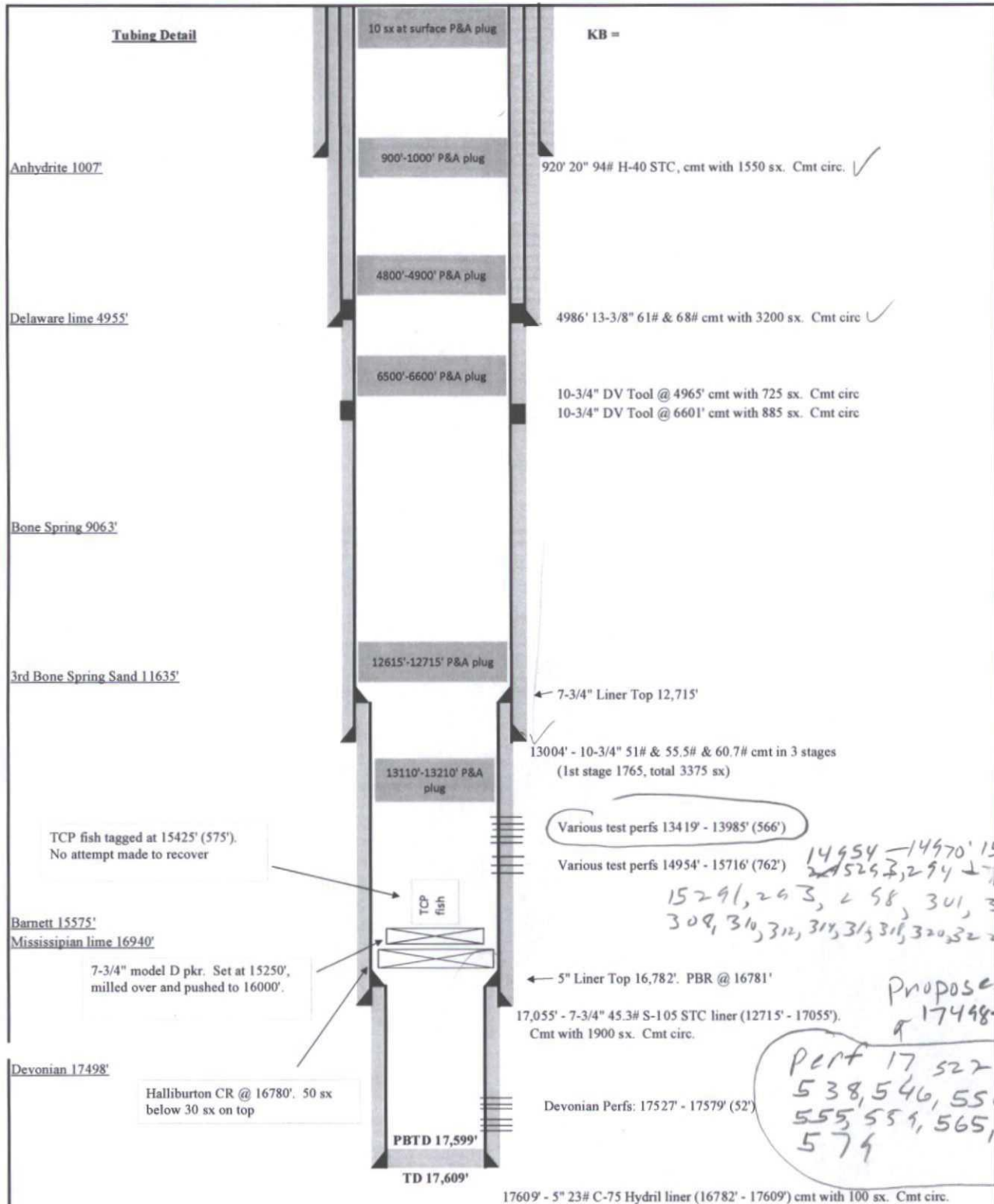
3. Name of Field or Pool (if applicable): SWD;DEV

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.

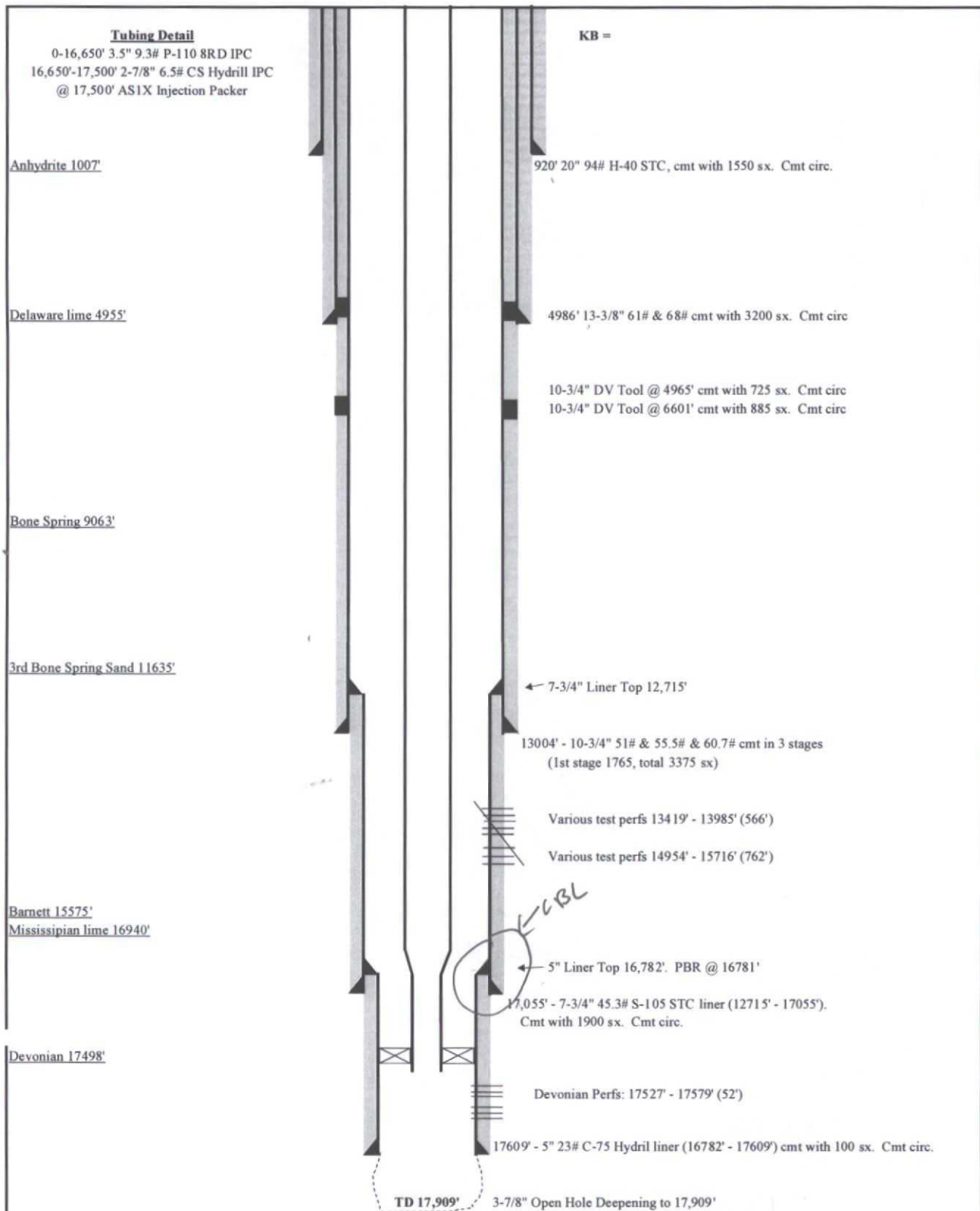
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Anhydrite 1,007', Delaware Lime 4,955', Bone Spring 9,063',

Mississippian 16,940', Devonian 17,498'



Revised	Abandoned wellbore diagram		Drawn	NE
#REF!	Vaca Draw Unit #1		4/1/2015	
	LEASE:		Approved	
	FIELD:			
	LOCATION:	660' FSL & 660' FEL 21, T2SS, R 33E	Date	
	COUNTY:	Lea STATE: NM		
	PRODUCING FORMATION:			
	BTA Oil Producers			

Proposed
8711 JV-P Vaca Draw Unit #1
API: 30-025-23895



Revised	Adandoned wellbore diagram Vaca Draw Unit #1		Drawn	NE
#REF!			4/1/2015	
	LEASE:		Approved	
	FIELD:		Date	
	LOCATION:	660' FSL & 660' FEL 21, T25S, R 33E		
	COUNTY:	Lea STATE: NM		
	PRODUCING FORMATION:			
	BTA Oil Producers			

BTA Oil Producers, LLC
7811 JV-P Vaca Draw Unit SWD #1
API: 30-025-23895
Lea County, New Mexico

Proposal to Re-enter Wellbore and Convert to Disposal

Procedure:

1. Install wellhead
2. Drill out cement plugs in 10-3/4" casing
3. Drill out plug in 7-3/4" liner
4. Fish TCP guns
5. Squeeze test perfs 14,954'-15,716'
6. Squeeze test perfs 13,419'-13,985'
7. Mill out Model D Packer @ 16,000'
8. Drill out CICR and cement @ 16,780'
9. Deepen well to 17909'
10. Acidize perfs 17,527'-17,579'
11. Acidize Open hole 17,609'-17,909'
12. Install 3-1/2" 9.3# P-110 IPC x 2-7/8" 6.5# CS Hydrill IPC w/ AS1X injection packer @ 17,500'
13. Circulate packer fluid
14. Perform MIT

DISTRIBUTION	
SALES	
FILE	
U.S.G.S.	
LAND OFFICE	
TRANSPORTER	OIL
	GAS
PRODUCTION OFFICE	
OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT
 SEE INSTRUCTIONS FOR COMPLETING THIS FORM ON THE REVERSE SIDE

FORM C-128
Revised 5/1/57

COPY

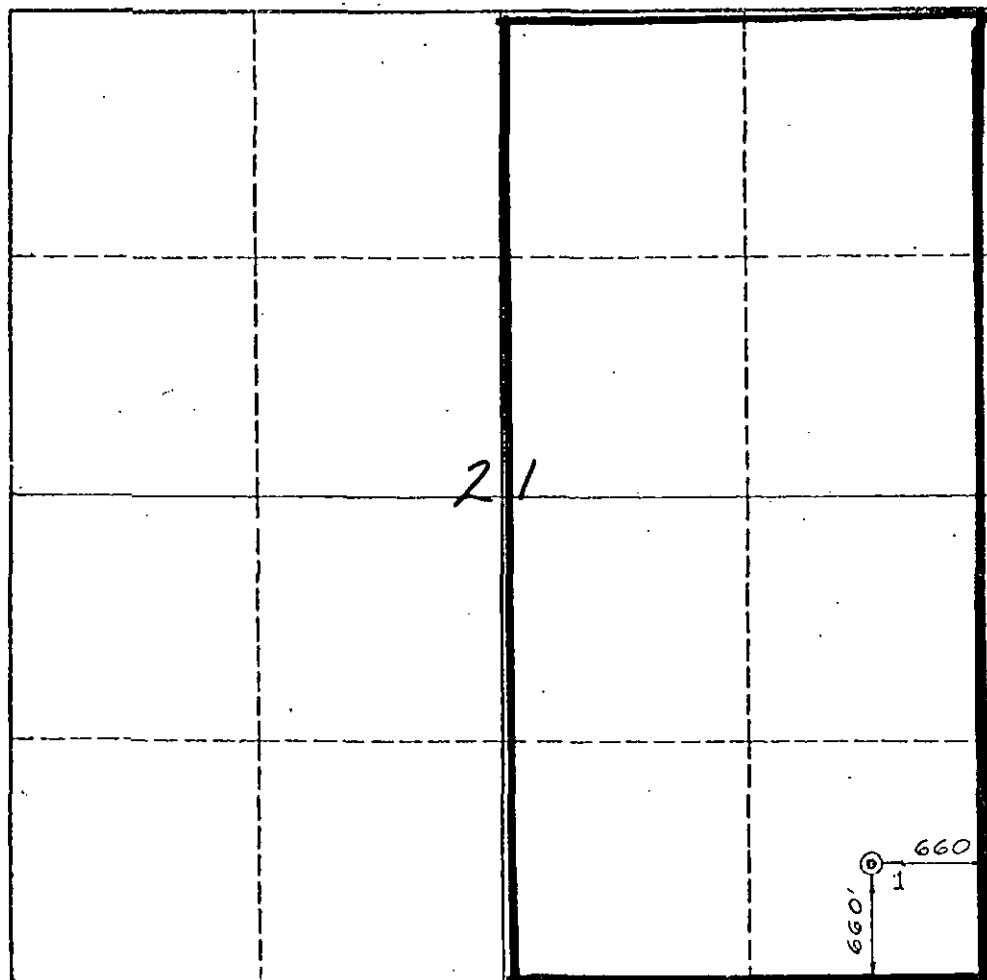
SECTION A

Operator American Quasar Petroleum Co. of New Mexico		Lease Vaca Draw Unit		Well No. 1
Unit Letter	Section 21	Township 25-South	Range 33-East	County Lea
Actual Footage Location of Well: 660 feet from the south line and 660 feet from the east line				
Ground Level Elev. 3350'	Producing Formation DEV.	Pool Wildcat	Dedicated Acreage: 320 Acres	

1. Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES _____ NO _____. ("Owner" means the person who has the right to drill into and to produce from any pool and to appropriate the production either for himself or for himself and another. (65-3-29 (c) NMSA 1935 Comp.)
2. If the answer to question one is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? YES _____ NO _____. If answer is "yes," Type of Consolidation UNITIZATION
3. If the answer to question two is "no," list all the owners and their respective interests below:

Owner	Land Description

SECTION B



CERTIFICATION

I hereby certify that the information in SECTION A above is true and complete to the best of my knowledge and belief.

Name E. B. White, Jr.,
Agent

Position

Company American Quasar Petroleum Co. of N. M.

Date

October 1, 1971

I hereby certify that the well location shown on the plat in SECTION B 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 knowledge and belief.

Date Surveyed

9-15-71

Registered Professional Engineer and/or Land Surveyor

Kenneth E. Conrad

Certificate No.

1411

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

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-060847

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**

12. COUNTY OR PARISH

Lea

13. STATE

N.M.**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 ☐ GAS WELL ☐ OTHER **Dry**

2. NAME OF OPERATOR

American Quaker Petroleum Co. of New Mexico

3. ADDRESS OF OPERATOR

606 Vaughn Bldg., Midland, Texas 797014. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface**660' FSL & 660' FKL, Sec. 21, T-25-S, R-33-E**

14. PERMIT NO.

30-025-23895

15. ELEVATIONS (Show whether DP, RT, GR, etc.)

3392' RT

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 perti-
nent 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' sx plug @ surface****Hole filled w/ 10% mud. Steel plate welded on 20" csg. w/ 4" pipe
extending 4' above ground level w/ appropriate well markings. Cellar
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

CONDITIONS OF APPROVAL, IF ANY:

TITLE

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

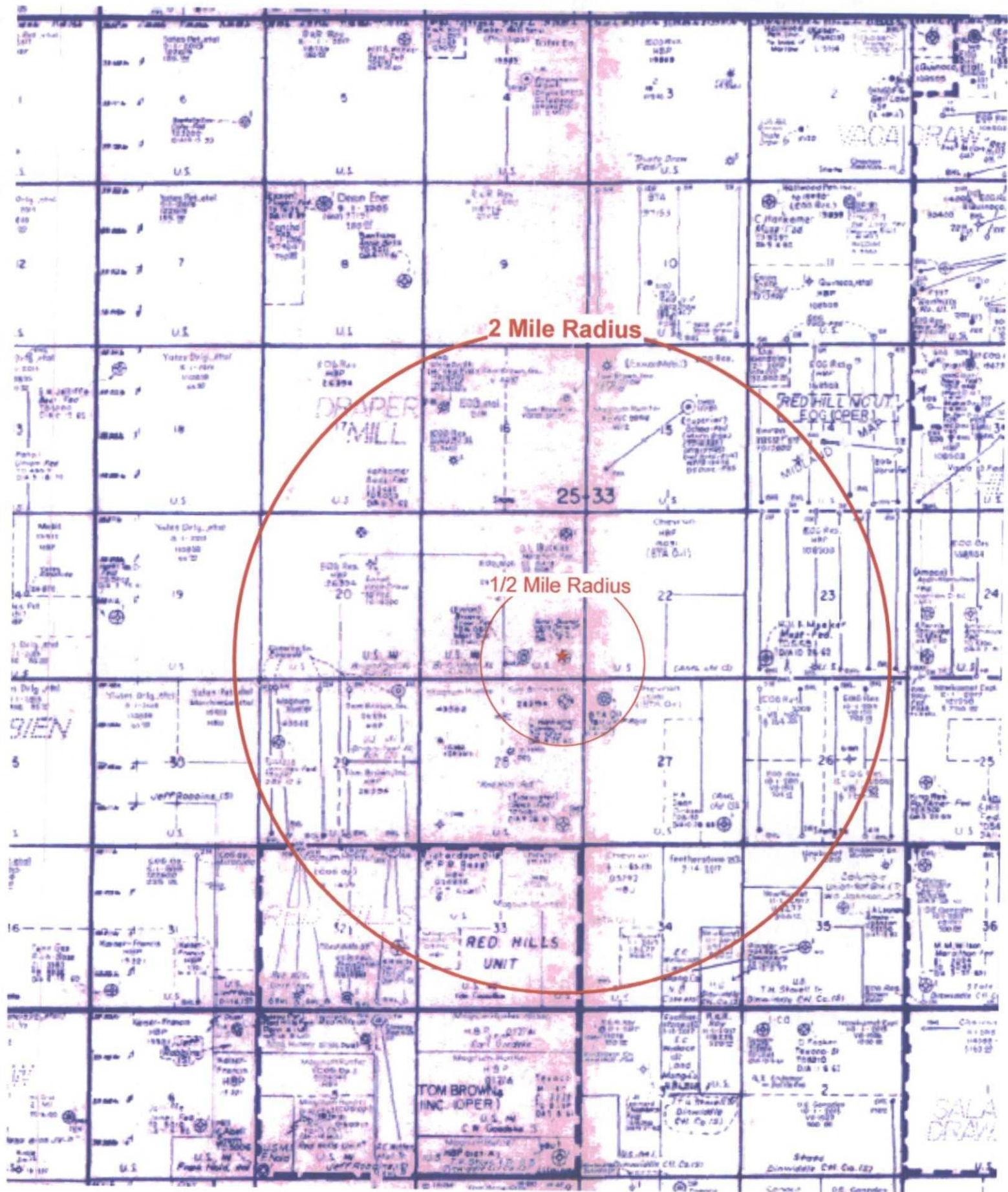
SUBMIT IN DUPLICATE

(See other in-
structions on
reverse side)**COPY**Form approved
Budget Bureau No. 42-R355.5.

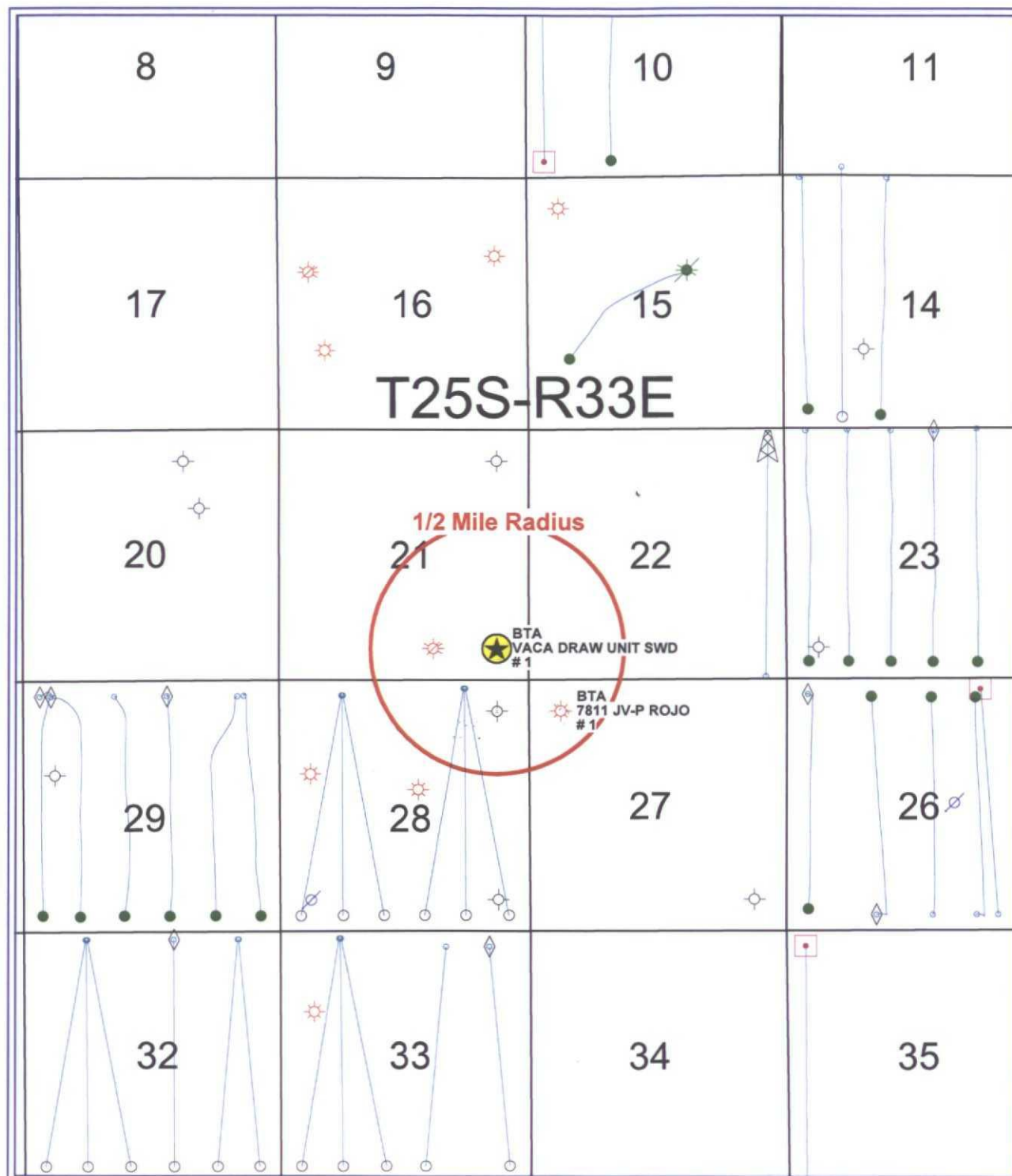
WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL:		OIL WELL <input type="checkbox"/>	GAS WELL <input type="checkbox"/>	DRY <input checked="" type="checkbox"/>	Other <u>P&A</u>		
b. 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 <u></u>
2. NAME OF OPERATOR						5. LEASE DESIGNATION AND SERIAL NO.	
<u>American Gasar Petroleum Co., of New Mexico</u>						<u>LC-068347</u>	
3. ADDRESS OF OPERATOR						6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
<u>604 Vaughn Bldg. Midland, Texas 79701</u>						7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*						8. FARM OR LEASE NAME	
At surface <u>660' FSL & 660' FSL of Sec. 21, T-23-S, R-33-E</u>						<u>VACA DRAW</u>	
At top prod. interval reported below <u>Not Surveyed</u>						9. WELL NO.	
At total depth <u>Not Surveyed</u>						<u>VACA DRAW UNIT</u>	
14. PERMIT NO.		DATE ISSUED		12. COUNTY OR PARISH		13. STATE	
				<u>Leon</u>		<u>N.M.</u>	
15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (Report date)	18. ELEVATIONS (OF, RKB, RT, GR, ETC.)*		19. ELEV. CASINGHEAD		
<u>10/2/71</u>	<u>3/8/72</u>	<u>11/12/72</u>	<u>3392 RD</u>		<u>3366 Tdg head</u>		
20. TOTAL DEPTH, MD & TVD	21. PLUG BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY		ROTARY TOOLS		CABLE TOOLS
<u>17,609</u>	<u>14,770</u>		<u>NOTED</u>				
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*						25. WAS DIRECTIONAL SURVEY MADE	
<u>13,419 - 13,985 Not commercial</u>						<u>NO</u>	
26. TYPE ELECTRIC AND OTHER LOGS RUN						27. WAS WELL CORED	
<u>Schlumberger</u>						<u>NO</u>	
28. CASING RECORD (Report all strings set in well)							
GORDON							
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD		AMOUNT PULLED	
<u>30"</u>	<u>Conductor</u>	<u>30' below Gr.</u>	<u>36"</u>	<u>Ready-mix concrete</u>		<u>0</u>	
<u>20"</u>	<u>94.0</u>	<u>930</u>	<u>26"</u>	<u>1550 sx - circ.</u>		<u>0</u>	
<u>13 3/8"</u>	<u>61.0 & 68.0</u>	<u>4985</u>	<u>17 1/2"</u>	<u>3280 sx - circ.</u>		<u>0</u>	
<u>10 3/4"</u>	<u>51.0, 55.0, 60.7</u>	<u>13,006</u>	<u>12 1/4"</u>	<u>3375 sx - circ.</u>		<u>0</u>	
29. LINER RECORD				30. TUBING RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
<u>7 3/4"</u>	<u>12,715</u>	<u>17,035</u>	<u>1900</u>	<u>none</u>	<u>2 7/8"</u>	<u>13,210</u>	<u>13,210</u>
<u>5"</u>	<u>16,782</u>	<u>17,609</u>	<u>100</u>	<u>none</u>			
31. PERFORATION RECORD (Interval, size and number)				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
<u>13,419 - 13,985, 1 3/16", 13 holes</u>				DEPTH INTERVAL (MD)			
				<u>13,419-13,985</u>			
				AMOUNT AND KIND OF MATERIAL USED			
				<u>3000 gals. 20% Acid</u>			
33.* PRODUCTION							
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
						<u>P&A</u>	
DATE OF TEST	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
Wells within 1/2 mile and 2 mile radius



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

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 ★ Proposed Location ○ Location Only △ Drilling Well ◻ 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
0 3,000 6,000 FEET

Exhibit "A" - 2 Mile Radius

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
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660' FSL 660' FEL
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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 Producer, LLC
 7811 JV-P Vaca Draw Unit #1
 660' FNL & 1830' FWL
 Attachement to C-108

HALF MILE RADIUS												
API #	Operator	Well Name	Well No.	TD	Sec	TwN	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
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VI. AOR Well Data

Well Name	Operator	Location	Type of Well	Spud Date	Comp Date	TD/ P&TD	Comp Interval	Producing Formation	Casing Program (Proposed *)				Plugging Detail
									Casing	Depth	Amt Cmt	Circ	
7811 JV-P Vaca Draw Unit SWD #1 API: 30-025-23895 (Proposed*)	BTA Oil Producers, LLC	660' FSL & 660' FEL 21-T25S-R33E	DISP	P&A Well Conversion	P&A Well Conversion	17,909' MD Proposed	(Disp.) 17498'-17909' Proposed	(Disp.) Devonian*	20" 13-3/8" 10-3/4" 7-3/4" Liner 5" Liner Open Hole *	920' 4986' 13004' 17055' 17609' 17909'	1550 3200 3375 1900 100 Open Hole *	Circ Circ Circ 12,715' 16,782' Open Hole *	
7811 JV-P Vaca Draw Unit #1 API: 30-025-23895	BTA Oil Producers, LLC	660' FSL & 660' FEL 21-T25S-R33E	P&A	P&A Well Conversion	P&A Well Conversion	17,909' MD Proposed	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, LLC	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

BTA Oil Producers, LLC
Application for Authorization to Inject
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660' FSL & 660' FEL
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VII Operation Data

1. Proposed average Daily Injection volume 10000 BWPD
 Proposed Maximum daily injection volume 15000 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.

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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.

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- 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.

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660' FSL & 660' FEL
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Lea County, New Mexico

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VIII Geologic Data

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

A. Disposal Zone

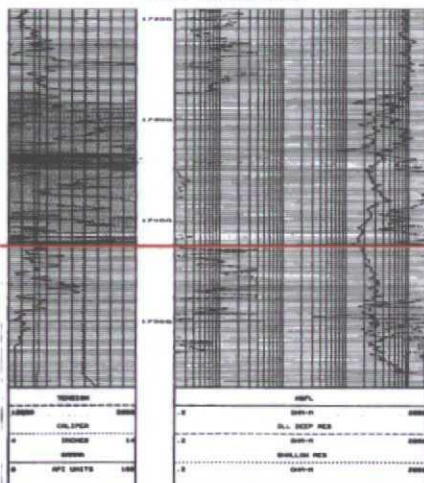
The proposed disposal interval for this wellbore is the Devonian formation. The Devonian formation was deposited a shallow water platform carbonate formation achieving thicknesses >1000 ft in this area. Oil and gas reservoirs occur where porosity is trapped on a closure. This wellbore tested gas on initial completion from the 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:

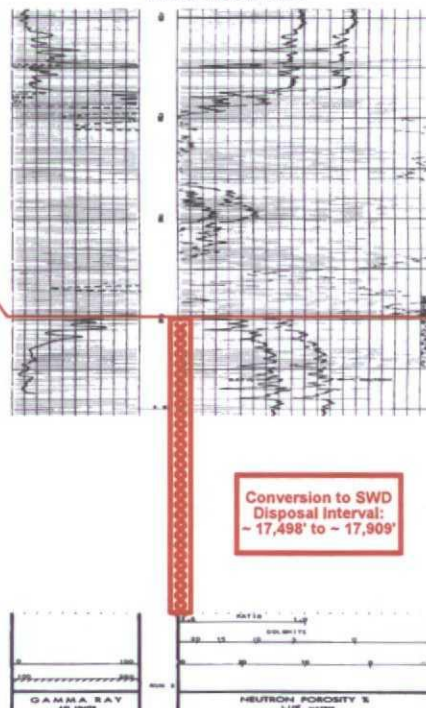
Fresh water is present in Triassic aged reservoirs to a depth of 600 feet.

A

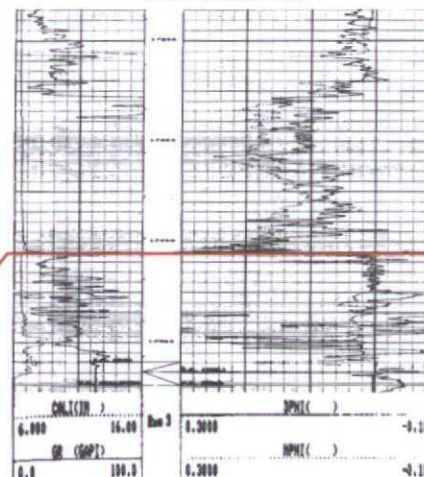
UNION
RED HILLS '28' FEDERAL COM
1
T25S R33E S28



BTA
VACA DRAW UNIT SWD
1
T25S R33E S21

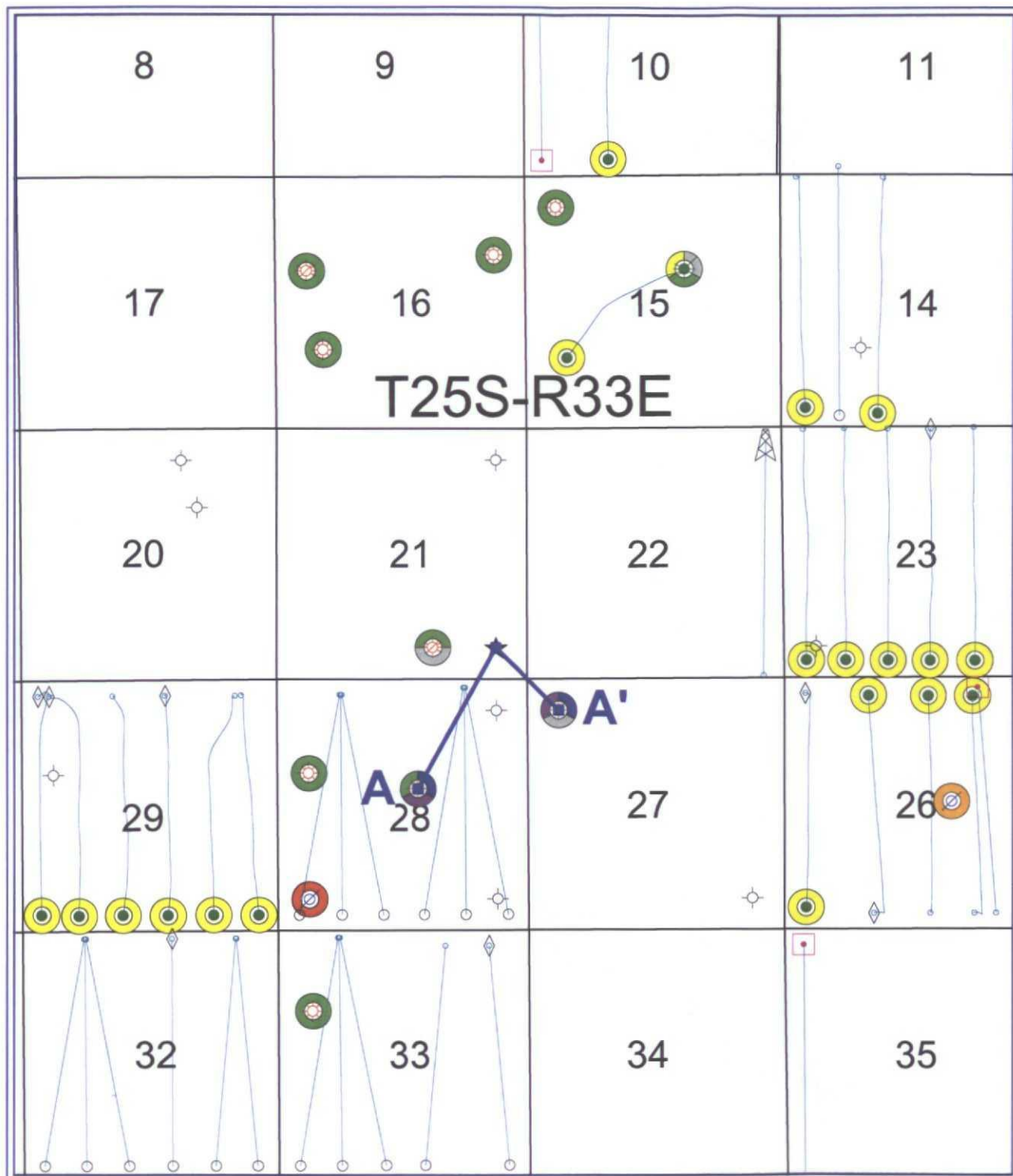


BTA
7811 JV-P ROJO
1
T25S R33E S27



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 2:38 PM	

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



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

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 "BONESPRING"
- Producing Formation Contains "WOLFCAMP"
- Producing Formation Contains "ATOKA"
- Producing Formation Contains "MORROW"
- Producing Formation Contains "DEVONIAN"

WELL SYMBOLS

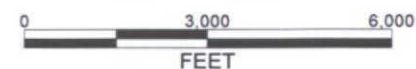
- ★ Proposed Location
- Location Only
- ⊕ Drilling Well
- ⊕ Drilled, Waiting on Completion
- Oil Well
- ⊕ Gas Well
- Dry Hole
- ⊕ Injection Well
- ⊕ Plugged & Abandoned Gas Well
- ⊕ Plugged And Abandoned Oil and Gas Well
- ◇ Pilot Hole

REMARKS

Top of Devonian Stratigraphic
 Cross Section Shown On Map

Only Wells Within 2 Mile Radius Shown on Map

By: JHB





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

(quarters are smallest to largest) (NAD83 UTM in meters)

BTA OIL PRODUCERS, LLC
7811 JV-P Vaca Draw Unit SWD #1
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ACTIVE & INACTIVE POINTS OF DIVERSION



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 Number	POD Sub-Code	basin	County	Q1	Q2	Q3	Q4	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

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

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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 Producers, LLC
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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 28th day of May, 2015.

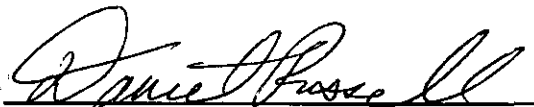

Kayla McConnell

Affidavit of Publication

STATE OF NEW MEXICO
COUNTY OF LEA

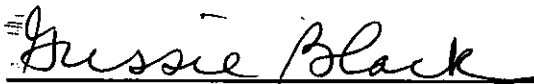
I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated
April 03, 2015
and ending with the issue dated
April 03, 2015.



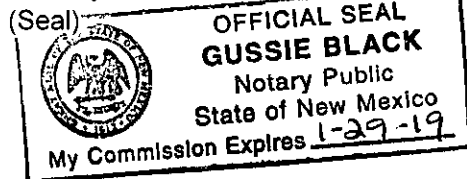
Publisher

Sworn and subscribed to before me this
3rd day of April 2015.



Business Manager

My commission expires
January 29, 2019



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

LEGALS

LEGAL NOTICE April 3, 2015

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 8711 JV-P Vaca Draw Unit SWD #1 is located 660' FSL & 660' 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 formation at a depth of 17498'-17909' at a maximum surface pressure of 3580 psi, and an average rate of 10000 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.
#29904

01101299

00154348

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
660' FSL & 660' FEL
Section 21, T25S, R33E
Lea County, New Mexico

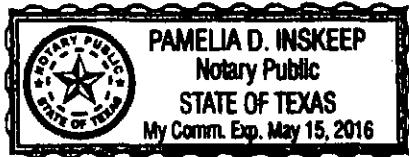
Attachment to C-108

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 28, 2015, 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 28th day of May, 2015, to certify which witness my hand and seal of office.



Pamelia D. Inskeep

Pamelia D. Inskeep
Notary Public, State of Texas



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 21, 2015

Re: Application for Authorization to Inject
7811 JV-P Vaca Draw Unit SWD #1
660' FSL & 660' FEL
Section 21, T25S, R33E
Lea County, New Mexico

NEW MEXICO OIL CONSERVATION COMMISSION
OIL CONSERVATION DIVISION
1220 South St. Francis Drive
Santa Fe, NM 87505

Attn: Mr. Phillip Goetze

Dear Mr. Goetze,

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

Enclosed herewith is our Application Packet.

BTA has notified all offset Operators and the Surface Owner of our intentions by certified mail. We will forward copies of the signed "green card" PS form 3811 certifications as soon as all are received back.

BTA has also published a Legal Notice in the Hobbs Daily News-Sun. The Affidavit of Publication is attached.

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

Respectfully,

Kayla McConnell
BTA Oil Producers, LLC

RECEIVED OCD
2015 JUN -2 P 3:25

P. O. BOX 1468
MONAHAN, TEXAS 79756
PHONE 663-4521

Martin Water Laboratories, Inc.

709 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 663-4521

RESULT OF WATER ANALYSES

LABORATORY NO. 49057
TO: Mr. Tom Williams SAMPLE RECEIVED 4-6-90
104 South Pecos, Midland, Texas 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	18,800			
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.

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<p>■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</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 X</p> <p style="text-align: right;"><input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) James C. Date of Delivery 5/22/15</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 style="text-align: center;">Bureau of Land Management Carlsbad Field Office 620 East Greene St. Carlsbad, NM 88220</p>	<p>3. Service Type</p> <p><input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail</p> <p><input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise</p> <p><input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>
<p>2. Article Number (Transfer from service label)</p> <p style="text-align: center;">7010 3090 0001 8426 9330</p>	
<p>PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-15</p>	

7010 1870 0001 0459 4340

U.S. Postal Service™ CERTIFIED MAIL™ RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)	
For delivery information, visit our website at www.usps.com	
OFFICIAL USE	
Postage	\$ 2.03
Certified Fee	330
Return Receipt Fee (Endorsement Required)	270
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 8.03
<p>Sent To</p> <p>State of New Mexico Commissioner of Public Lands P.O. Box 1148 Santa Fe, NM 87504</p>	

MIDLAND TX
MAY 28 2015
Postmark Here

7010 3090 0001 8426 9330

U.S. Postal Service™ CERTIFIED MAIL™ RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)	
For delivery information, visit our website at www.usps.com	
OFFICIAL USE	
Postage	\$ 3.08
Certified Fee	330
Return Receipt Fee (Endorsement Required)	270
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 9.08
<p>Sent To</p> <p>Bureau of Land Management Carlsbad Field Office 620 East Greene St. Carlsbad, NM 88220</p>	

MIDLAND TX
MAY 28 2015
Postmark Here

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- 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.
PO Box 50250
Midland, TX 79710

2. Article Number

(Transfer from service label)

7010 1870 0001 6459 4388

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

U.S. Postal Service™

CERTIFIED MAIL™ RECEIPT

(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

OFFICIAL USE

Postage \$ 2.03
Certified Fee 3.30
Return Receipt Fee (Endorsement Required) 2.70
Restricted Delivery Fee (Endorsement Required)
Total Postage & Fees \$ 8.03

Sent To

Street, Apt. No.,
or PO Box No.
City, State, ZIP+4

PS Form 3800, All

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *[Signature]*
☐ Agent
☐ Addressee

B. Received by (Printed Name)

Ashley L. Hanson

C. Date of Delivery

6/1/15

D. Is delivery address different from item 1?

If YES, enter delivery address below:

☐ Yes
☐ No

3. Service Type

☒ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee)

☐ Yes

U.S. Postal Service™

CERTIFIED MAIL™ RECEIPT

(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

OFFICIAL USE

Postage \$ 2.03
Certified Fee 3.30
Return Receipt Fee (Endorsement Required) 2.70
Restricted Delivery Fee (Endorsement Required)
Total Postage & Fees \$ 8.03

Sent To

Street, Apt. No.,
or PO Box No.
City, State, ZIP+4

PS Form 3800, All

OXY USA Inc.
PO Box 50250
Midland, TX 79710

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- 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

2. Article Number

(Transfer from service label)

7010 1870 0001 6459 4395

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-15-

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *[Signature]*
☐ Agent
☐ Addressee

B. Received by (Printed Name)

Sadiq Garate

C. Date of Delivery

6-1-15

D. Is delivery address different from item 1?

If YES, enter delivery address below:

☐ Yes
☐ No

3. Service Type

☒ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee)

☐ Yes

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<p>■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</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: <i>[Signature]</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name): <i>Glathman</i> C. Date of Delivery: <i>6-1-15</i></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 style="text-align: center; font-size: 1.5em;">RECEIVED JUN 4 2015</p>
<p>1. Article Addressed to:</p> <p style="text-align: center;">NMOCD District 1 1625 N French Drive Hobbs, NM 88240</p>	<p>3. Service Type: <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>
<p>2. Article Number: (Transfer from service label)</p>	<p style="text-align: center; font-size: 1.2em;">7010 3090 0001 8426 9323</p>
<p>PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-154</p>	

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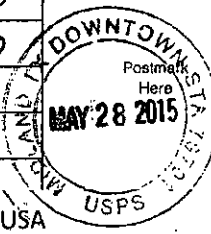
For delivery information visit our website at www.usps.com

OFFICIAL USE

Postage	\$ 2.03
Certified Fee	330
Return Receipt Fee (Endorsement Required)	270
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 8.03

Sent To: *Chevron USA*
Street, Apt. No., or PO Box No.: *15 Smith Rd.*
City, State, ZIP+4: *Midland, TX 79710*

PS Form 3800, Au



U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)


For delivery information visit our website at www.usps.com

OFFICIAL USE

Postage	\$ 1.82
Certified Fee	330
Return Receipt Fee (Endorsement Required)	270
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82

Sent To: *NMOCD*
Street, Apt. No., or PO Box No.: *District 1*
City, State, ZIP+4: *1625 N French Drive Hobbs, NM 88240*

PS Form 3800, Au



SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<p>■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</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: <i>[Signature]</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name): <i>King Brown</i> C. Date of Delivery: <i>5/29</i></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 style="text-align: center; font-size: 1.5em;">RECEIVED JUN 1 2015</p>
<p>1. Article Addressed to:</p> <p style="text-align: center;">Chevron USA 15 Smith Rd. Midland, TX 79710</p>	<p>3. Service Type: <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>
<p>2. Article Number: (Transfer from service label)</p>	<p style="text-align: center; font-size: 1.2em;">7010 1870 0001 6459 4371</p>
<p>PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-154</p>	

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<p>■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</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 X</p> <p><input type="checkbox"/> Agent <input checked="" type="checkbox"/> Addressee</p>	
<p>1. Article Addressed to:</p> <p>Bureau of Land Management 620 E. Greene St. Carlsbad, NM 88220</p>		<p>B. Received by (Printed Name) 6/21/15</p> <p>C. Date of Delivery 6/21/15</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) 7010 1870 0001 6459 4357</p>		<p>3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p>	
<p>PS Form 3811, February 2004</p>		<p>Domestic Return Receipt 102595-02-M-15</p>	

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CERTIFIED MAIL RECEIPT	
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For delivery information visit our website at www.usps.com	
OFFICIAL USE	
Postage	\$ 2.03
Certified Fee	330
Return Receipt Fee (Endorsement Required)	270
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 8.03
Sent To	EOG Resources, Inc.
Street, Apt. No., or PO Box No.	PO Box 5270
City, State, ZIP+4	Hobbs, NM 88241
PS Form 3800, April 2004	

U.S. Postal Service	
CERTIFIED MAIL RECEIPT	
(Domestic Mail Only; No Insurance Coverage Provided)	
For delivery information visit our website at www.usps.com	
OFFICIAL USE	
Postage	\$ 2.03
Certified Fee	330
Return Receipt Fee (Endorsement Required)	270
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 8.03
Sent To	Bureau of Land Management
Street, Apt. No., or PO Box No.	620 E. Greene St.
City, State, ZIP+4	Carlsbad, NM 88220
PS Form 3800, April 2004	

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<p>■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</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 Bianca Aruente</p> <p><input type="checkbox"/> Agent <input checked="" type="checkbox"/> Addressee</p>	
<p>1. Article Addressed to:</p> <p>EOG Resources, Inc. PO Box 5270 Hobbs, NM 88241</p>		<p>B. Received by (Printed Name) 6/21/15</p> <p>C. Date of Delivery 6/21/15</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) 7010 1870 0001 6459 4364</p>		<p>3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p>	
<p>PS Form 3811, February 2004</p>		<p>Domestic Return Receipt 102595-02-M-15</p>	

P. O. BOX 1488
MONAHANS, TEXAS 79756
PH. 943-3234 OR 553-1040

Martin Water Laboratories, Inc.

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 8-6-97COMPANY BTA Oil Producers
LEASE Mesa #1 8105FIELD 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 60° 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.

7811 JV-P Vaca Draw Unit SWD #1
Associated with C-108

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	Gunnér	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	593.89	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

*Representative Delaware Produced
And Receiving Formation Water*

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>

Goetze, Phillip, EMNRD

From: Holm, Anchor <aholm@slo.state.nm.us>
Sent: Friday, June 26, 2015 12:02 PM
To: Goetze, Phillip, EMNRD
Subject: BTA Oil Producers - 7811 JV-P Vaca Draw Unit #4 reEntry for SWD
Attachments: 7811 JV-P VacaDrawUt.#1SWD Review AH.pdf

Phil,

I did a brief review on this well, which tested gas in 1972 before being plugged back and ultimately P&A'd. Attached are some of my notes.

Have a great weekend!

Anchor Holm

GeoScientist/Petroleum Engineering Specialist
NM State Land Office
Oil, Gas and Minerals Division
P.O. Box 1148
310 Old Santa Fe Trail
Santa Fe, NM 87504-1148
Ph. 505-827-5759
aholm@slo.state.nm.us

This email has been scanned by the Symantec Email Security.cloud service.
For more information please visit <http://www.symanteccloud.com>



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 21, 2015

Re: Offset Operator Notification
Application for Authorization to Inject
7811 JV-P Vaca Draw Unit SWD #1
660' FSL & 660' FEL
Section 21, T25S, R33E
Lea County, New Mexico

INTERESTED PARTIES

Gentlemen,

BTA has filed an application for authorization to inject at the above referenced location.

Attached please find a copy of our letter to the State of New Mexico requesting approval along with a copy of our Application Packet. Should you have concerns or objections to the application, you may object in writing to the Oil Conservation at 1220 S. St. Francis Drive, Santa Fe, NM 87505.

Should you have any questions regarding this, please do not hesitate to contact Trace Wohlfahrt at the letterhead address.

BTA Oil Producers, LLC *Re Entry*
7811 JV-P Vaca Draw Unit SWD #1 (FEB)
(30-025-23895) P-21-255-33E
INT. INT. = 17,498' - 17,909' (DEV.)

5' line at 17,609'
Plan Open Hole 17,609' to 17,909'

Orig. Dev. Perf.: 17,579' - 17,579'
Tested 1000 → 750 MCFD + 5 BWP
Then PBTD to 16,705' for testing
shallower zone. well P&A'd
w/ year later. *Alh*

Respectfully,

Kayla McConnell

Kayla McConnell
BTA Oil Producers, LLC

2015 JUN 2 PM 8 38

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other in-
structions on
reverse side)Form approved.
Budget Bureau No. 42-R355.5.

(30-025-23895) ✓

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL - WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input checked="" type="checkbox"/> Other <u>P&A</u>		5. LEASE DESIGNATION AND SERIAL NO. <u>LC-040847</u>	
b. TYPE OF COMPLETION: NEW WELL <input type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PACO BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> Other <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR <u>American Gas & Oil Co., of New Mexico</u>		7. UNIT AGREEMENT NAME <u>VACA DEAN</u>	
3. ADDRESS OF OPERATOR <u>606 Vaughn Blvd. Midland, Texas 79701</u>		8. FARM OR LEASE NAME <u>VACA DEAN UNIT</u>	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements). At surface <u>660' F&L & 660' F&L of Sec. 21, T-25-S, R-33-E</u> At top prod. interval reported below. <u>Not Surveyed</u> At total depth <u>Not Surveyed</u>		9. WELL NO.	
14. PERMIT NO.		DATE ISSUED	
15. DATE SPUNDED <u>10/2/71</u>		16. DATE T.D. REACHED <u>1/8/72</u>	
17. DATE COMPL. (Report date) <u>11/13/72</u>		18. ELEVATIONS (OF, RKB, RT, GR, ETC.) <u>3392 KB</u>	
19. ELEV. CASINGHEAD <u>3366 Top Head</u>		20. TOTAL DEPTH, MD & TVD <u>17.609</u>	
21. FLOO. BACK T.D., MD & TVD <u>14.710</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. WAS DIRECTIONAL SURVEY MADE <u>NO</u>		26. TYPE ELECTRIC AND OTHER LOGS RUN <u>Schlumberger</u>	
27. WAS WELL CORED <u>NO</u>		28. CEMENTING RECORD (Report all strings set in well) <u>GORDON</u>	
29. LINER RECORD		30. TUBING RECORD	
31. PERFORATION RECORD (Interval, size and number) <u>13.419 - 13.985, 1 9/16", 13 holes</u>		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
33. PRODUCTION		34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)	
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. Collins</u>		TITLE <u>President</u>	
DATE <u>3/1/73</u>			

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

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22; and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Devonian	17,055	17,516	<p>DST #1: Tool opened w/ weak blow of air - took 15 min. initial flow CI tool & took 90 min. ISIP - open tool w/ very weak flow of air, inch to fair blow air throughout 3 hr. final flow period - CI tool & took 2 hrs., 35 min. PSIP - rec. 2666' (17.5 bbls.) wtr. w/ Chl. 17,568 ppm @ top, last. to 21,960 ppm @ bottom - HNT 208° F. - IHP 6658 psi - IFF (1st flow) (closed) 370 psi - FFF (1st flow) (closed) 425 psi - ISIP 4488 psi in 90 min., IFF (2nd flow) (closed) 567 psi - FFF (2nd flow) (closed) 1085 psi - PSIP 1965 in 2 hrs., 35 min. - FFP 6703 psi.</p>

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Elevation	3392'	
Top Rustler		
Anhy.	1005'	
Top Salt	2219'	
Top Delaware		
Lime	4955'	
Top Delaware sand	4977'	
Top Bone		
Springs Lime	9324'	
Top Wolfcamp	12,130'	
Top Strawn	14,100'	
Top Atoka	16,144'	
Top Morrow	15,290'	
Top Barnett	16,632'	
Top Miss. Lm.	16,942'	
Top Woodford	17,272'	
Top Siluro		
Devonian	17,498'	
Total Depth	17,609'	

16,705' P6TD

INITIAL TEST:
1000 → 750 MCD + 50 WPD
Perf: 17,527' - 17,579'

Ch

VACA DRAW UNIT (LEA COUNTY)

March 21, 1972: TD 17,609' - P.B.T.D. 17,599' - ran Gamma Ray Neutron 17,599 to 13,000 - perfered 17,527 - 533, 538, 546, 550, 555, 559, 565, 569, 579. Now picking up tbg. testing to 8000 psi internally 271 joints in hole.

March 22, 1972: Finished running tbg. - total 498 joints plus 3 Pup joints - spaced out and landed tbg. w/ Seal Assembly in PBR @ 16,781.

March 26, 1972: gas vol. est. 100 MCF per day - rec. 1/2 to 1 bbls. water per hr. - testing natural.

March 27, 1972: acidized w/ 5000 gal 15% Hydrochloric acid.

March 29, 1972: est. gas vol. 1 Mil. cu. ft. per day - rec. 5 bbls. water per hr. - stab. flow. Re-perfed 16,579, 569, 565 559.

March 31, 1972: perfed hyper jet @ 17,538, 533, & 527 - treated w/ 30,000 gal 15% RA 5 HCL acid.

April 1, 1972: Gas vol. est. 750 MCFPD - water load is rec. plus 2054 bbls.

April 3, 1972: Set Halliburton SV cmt. retainer in 7 3/4" OD csg. @ 16,780'. Prep to GIH to plug back.

April 4, 1972: cmt. thru SV retainer @ 16,780 w/ 50 sx. - pulled out of retainer, cmt. on top of retainer w/ 30 sx. - set Baker Model "D" Packer @ 15,250'. TD 17,609' - P.B.T.D. 16,705'.

April 5, 1972: Landed 2 7/8" in packer @ 15,250'.

April 6, 1972: Perfed 15,291, 293, 298, 301, 303, 308, 310, 312, 314, 316, 318, 320, 322, total of 26 holes.

April 7, 1972: Pumped in 240 bbls. 2% Potassium Chloride water.

April 11, 1972: est. gas vol. 30 MCFD - water load rec. plus 23 bbls. - My-T-Frac treatment, pumped 200 bbls. slick water pad w/ 2% Potassium Chloride & 165 bbls. jelled frac fluid. Gas vol. 0.5 to 1.5 MMCFPD - rec. 3 bbls. water per hr. - released rig @ 4:00 a.m. April 11, 1972 & contd. testing.

July 1, 1972: Swabbed 10 hrs. - lowered fluid level 4500' to 8000' swabbed approx. 1 bbl. per hr. fluid - very small show of gas.

July 8, 1972: Finished GIH w/ mill - cut over Model D packer @ 15,250'

July 9, 1972: pushed Model D Packer to 16,000'.

Top
Part
of
Proposed
SWD
Internal
Adm.



C-108 Review Checklist: Received 4/22/2015 Add. Request: 7/28 Reply Date: _____ Suspended: _____

PERMIT TYPE: WFX / PMX / (SWD) Number: _____ Permit Date: _____ Legacy Permits/Orders: _____

Well No. 1 Well Name(s): 7811-JV-P Uaca Draw SWD#1

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

Footages 660FSL Lot _____ or Unit P Sec 21 Tsp 25S Rge 33E County LEC

General Location: 220 miles W JAL Pool: SLD's DEVONIAN Pool No.: 96101

BLM 100K Map: JAL Operator: BTA Oil Producers OGRID: 260297 Contact: Kayla McConnel

COMPLIANCE RULE 5.9: Total Wells: 116 Inactive: 2 Fincl Assur: Y Compl. Order? Y IS 5.9 OK? Y Date: 7-28-2015

WELL FILE REVIEWED Y Current Status: P&A

WELL DIAGRAMS: NEW: Proposed 0 or RE-ENTER: Before Conv. 0 After Conv. 0 Logs in Imaging: Y

Planned Rehab Work to Well: 564 E 22C PLCS 13419-13985, 14954-15716

Well Construction Details		Sizes (in) Borehole / Pipe	Setting Depths (ft)	Cement Sx or Cf	Cement Top and Determination Meth
Planned ___ or Existing ___ Surface		24"/20"	920	1550	SURFACE/VISUAL
Planned ___ or Existing ___ Intern/Prod		17 1/2"/13 3/8"	4986	3200	SURFACE/VISUAL
Planned ___ or Existing ___ Intern/Prod		12 3/4"/10 3/4"	13004	3375	SURFACE/VISUAL
Planned ___ or Existing ___ Prod/Liner		7 3/4"	17058	11900	12-715
Planned ___ or Existing ___ Liner		5 1/2"	17609	100	16782
Planned ___ or Existing ___ OH / PERF		PT 17 5/8" 17579	OH 17609 17909	Inj Length 382	

Injection Stratigraphic Units		Depths (ft)	Injection or Confining Units	Tops	Completion/Operation Details:
Adjacent Unit: Litho. Struc. Por.			DEV	17498	Drilled TD 17609 PBTD
Confining Unit: Litho. Struc. Por.			WD	17270	NEW TD 17909 NEW PBTD
Proposed Inj Interval TOP:	17498				NEW Open Hole <u>Y</u> or NEW Perfs <u>Y</u>
Proposed Inj Interval BOTTOM:	17909				Tubing Size <u>3 1/2</u> in. Inter Coated? <u>Y</u>
Confining Unit: Litho. Struc. Por.			DEV	17498	Proposed Packer Depth _____ ft
Adjacent Unit: Litho. Struc. Por.			WD	17270	Min. Packer Depth <u>17435</u> (100-ft limit)
					Proposed Max. Surface Press. <u>3580</u> p
					Admin. Inj. Press. <u>3500</u> (0.2 psi pe

AOR: Hydrologic and Geologic Information

POTASH: R-111-P 0 Noticed? _____ BLM Sec Ord 0 WIPP 0 Noticed? _____ SALT/SALADO T: _____ B: _____ CLIFF HOUSE

FRESH WATER: Aquifer _____ Max Depth _____ HYDRO AFFIRM STATEMENT By Qualified Person Y

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

Disposal Fluid: Formation Source(s) 15000 Spring Analysis? _____ On Lease 0 Operator Only 0 or Commercial

Disposal Int: Inject Rate (Avg/Max BWPD): 10,000/15,000 Protectable Waters? N/A Source: _____ System: Closed 0 or Open

HC Potential: Producing Interval? _____ Formerly Producing? Y Method: Logs/DST P&A Other _____ 2-Mile Radius Pool: MA

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

Penetrating Wells: No. Active Wells 2 Num Repairs? _____ on which well(s)? _____ Diagrams? _____

Penetrating Wells: No. P&A Wells 2 Num Repairs? _____ on which well(s)? _____ Diagrams? _____

NOTICE: Newspaper Date April 13, 2015 Mineral Owner BLM Surface Owner BLM N. Date June 2, 2015

RULE 26.7(A): Identified Tracts? _____ Affected Persons: Cimmanex, Oxy, EOG N. Date June 2, 2015

Permit Conditions: Issues: _____

Add Permit Cond: _____