

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB NO. 1004-0137  
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*Field Office Serial No.  
NM14492

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other: UNKNOWN OTH2. Name of Operator  
BTA OIL PRODUCERSContact: KAYLA MCCONNELL  
E-Mail: kmccconnell@btaoil.com8. Well Name and No.  
MESA SWD 8105 JV P 1W9. API Well No.  
30-025-42841-00-X13a. Address  
104 SOUTH PECOS STREET  
MIDLAND, TX 797013b. Phone No. (include area code)  
Ph: 432.682.375310. Field and Pool or Exploratory Area  
SWD

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 11 T26S R32E SENW 1800FNL 1900FWL

11. County or Parish, State

LEA COUNTY, NM

## 12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Change to Original A
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	PD

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

BTA Oil Producers, LLC respectfully request the following changes to the Original APD, as approved:

Approved: SWD;Bell Canyon-Cherry Canyon  
Change to: SWD;Siluro-DevonianApproved: 7000' TVD  
Change to: 19000' TVDApproved: 3M BOP/Choke  
Change to: 10M BOP/Choke

\*See attached Drilling Program for Casing and Cementing detail.

**SEE ATTACHED FOR  
CONDITIONS OF APPROVAL**

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

**Electronic Submission #371791 verified by the BLM Well Information System  
For BTA OIL PRODUCERS, sent to the Hobbs  
Committed to AFMSS for processing by DEBORAH MCKINNEY on 04/11/2017 (17DLM0846SE)**

Name (Printed/Typed) KAYLA MCCONNELL

Title PRODUCTION ASSISTANT

Signature (Electronic Submission)

Date 03/31/2017

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**Approved By MUSTAFA HAQUETitle PETROLEUM ENGINEERDate 05/01/2017

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office Hobbs

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

**\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\***

**Additional data for EC transaction #371791 that would not fit on the form**

**32. Additional remarks, continued**

Other Attachments included:  
Approved Amended Injection Permit  
Amended Injection Application  
10M BOP & Choke Diagrams



DATE: 3/6/2017	SUSPENSE	ENGINEER: KAM	LOGGED IN: 3/28/2017	TYPE: SWD	APP NO: PMAM1708753346
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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



8105 JV-P Mesa SWD #1W  
 API: 3002542841

**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,  
We will forward copies of the signed "green card" PS Form 3811 certifications as soon as all are received back.  
 [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

3/2/2017  
 Date

kmcconnell@btaoil.com  
 e-mail Address

SWD 1531-A  
 BTA Oil Producer  
 260297

well  
 - Mesa 8105 1  
 SWP SWD #1  
 30-025-42841

POD  
 - SWD Deviation  
 46101  
 97865



**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

March 3, 2017

Re: Amended Application for Authorization to Inject  
Mesa 8105 JV-P SWD #1W  
1800' FNL & 1900' FWL  
Section 11, T26S, R32E  
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 amend the current permit SWD-1531 to inject into a deeper formation. 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

2017 MAR 16 10:10 AM  
RECEIVED  
OIL CONSERVATION DIVISION  
SANTA FE, NM



STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL  
RESOURCES DEPARTMENT

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

\*AMENDED\*

FORM C-108  
Revised June 10, 2003

API: 3002542841

**APPLICATION FOR AUTHORIZATION TO INJECT**

8105 JV-P Mesa SWD #1W

- I. PURPOSE: Secondary Recovery Pressure Maintenance x Disposal Storage  
Application qualifies for administrative approval? x Yes No
- II. OPERATOR: BTA Oil Producers, LLC  
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: 03/02/2017  
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: \_\_\_\_\_

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

### III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

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

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

### XIV. PROOF OF NOTICE

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

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

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

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

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



Side 1

## INJECTION WELL DATA SHEET

OPERATOR: BTA Oil Producers, LLC

WELL NAME &amp; NUMBER: 8105 JV-P Mesa SWD #1W

WELL LOCATION: 1800' FNL &amp; 1900' FWL, UL F, Sec. 11, T26S, R32E, Lea County, NM

FOOTAGE LOCATION

UNIT LETTER

SECTION

TOWNSHIP

RANGE

WELLBORE SCHEMATICWELL CONSTRUCTION DATASurface Casing

Hole Size: 17-1/2"

Casing Size: 13-3/8"

Cemented with: 635 sx.

or ft<sup>3</sup>

Top of Cement: Circ

Method Determined:

Intermediate Casing

Hole Size: 12-1/4"

Casing Size: 9-5/8"

Cemented with: \*1830 sx.

or ft<sup>3</sup>

Top of Cement: Circ

Method Determined:

\*DV Tool @ 4575'

Production Casing\*Liner

Hole Size: 8-3/4"

Casing Size: 7"

Cemented with: \*850 sx.

or ft<sup>3</sup>

Top of Cement: \*11,950'

Method Determined:

Total Depth: \*19,000'

Injection Interval

\*Proposed 17,450 feet to 19,000 Open Hole

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: \*5-1/2" 0 - 11,900'  
\*4-1/2" 11,900' - 17,430' Lining Material: Internally plastic coated

Type of Packer: Arrowset A1X

Packer Setting Depth: \*17,430'

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

Additional Data

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

If no, for what purpose was the well originally drilled? \_\_\_\_\_

2. Name of the Injection Formation: \*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. No

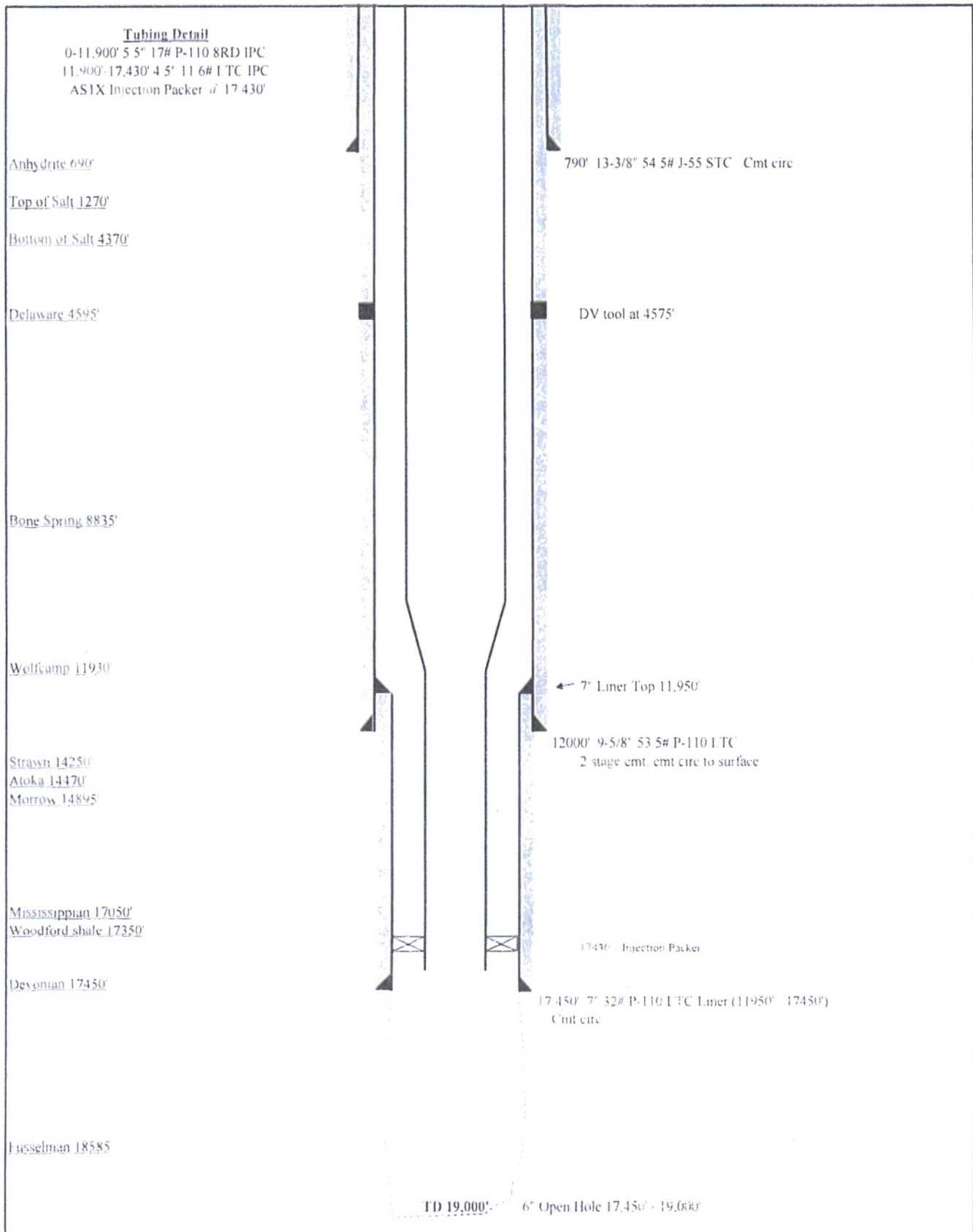
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: \_\_\_\_\_

\*Delaware 4595'; Brushy Canyon 7244'; Bone Spring 8835'; Wolfcamp 11930'

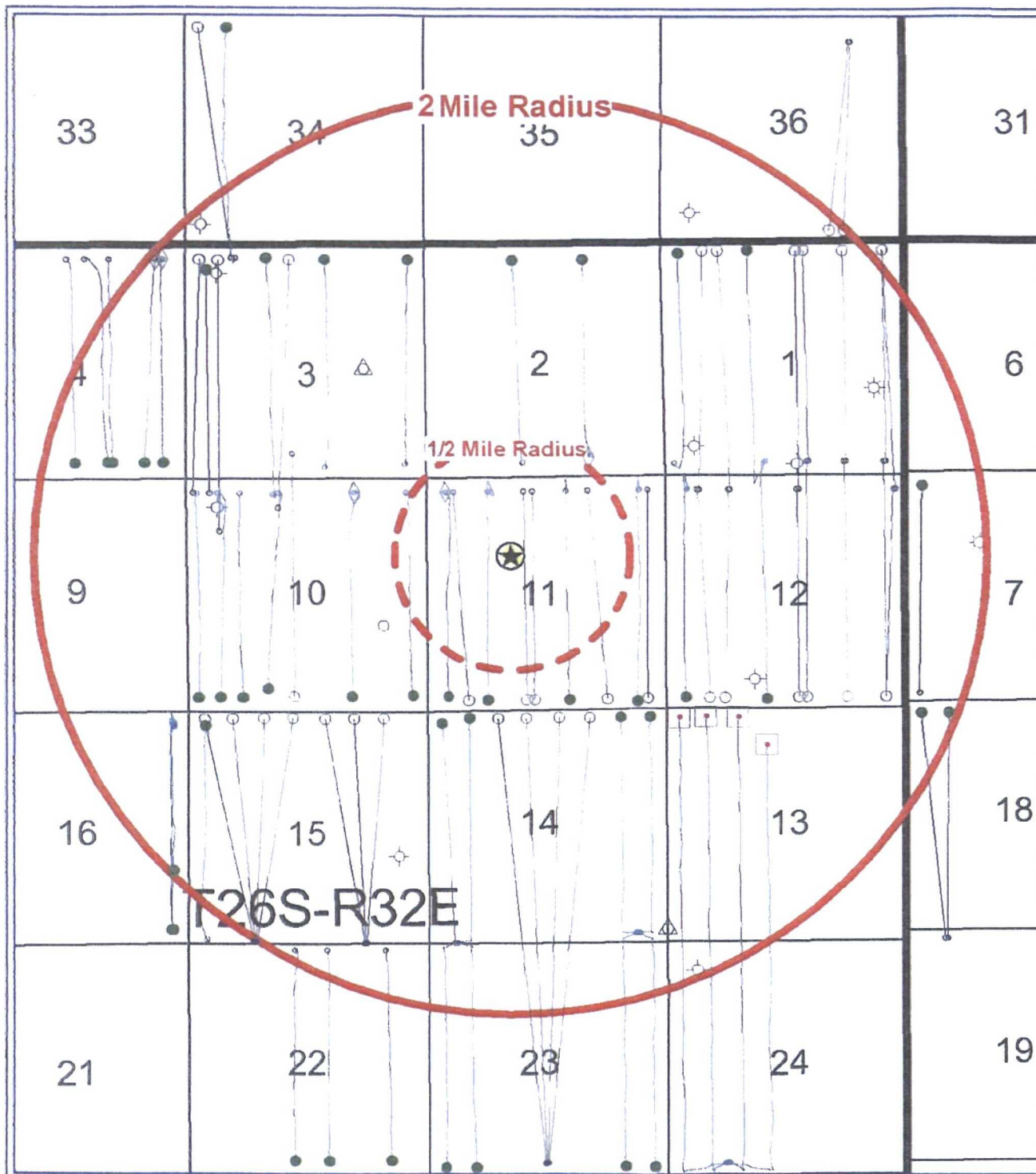
Strawn 14250'; Atoka 14470'; Morrow 14895'




Proposed



		Proposed Wellbore		Drawn	
		Mesa SWD 8105 JV-P #1		2/21/2017	
		Devonian			
		Sec 11, T26S-R32E		Approved	
		Lea	STATE	Date	
		PRODUCING FORMATION			
		BTA			
		BTA Oil Producers, LLC			



 <b>BTA Oil Producers, LLC</b>	
<b>MESA SWD 8105 JV-P #1W</b>	
1/2 & 2 Mile Radius Map Sec.11,T26S-R32E, 1800'FNL & 1900'FWL Lea County, New Mexico	
<b>WELL SYMBOLS</b> ★ Proposed Location ○ Location Only □ Drilled, Waiting on Completion ● Oil Well ☼ Gas Well ⊙ Dry Hole △ Service Well ◇ Pilot Hole	
<b>REMARKS</b> **** SEE ATTACHED TABLE FOR DETAILED WELL DATA INFORMATION **** Mesa SWD 8105 JV-P #1W Highlighted in Yellow	
By JHB	
0 3,252 6,504 FEET	



**TABLE 1 - Mesa SWD 8105 JV-P #1W 2 Mile Radius Well Data Information**

UWI (AHPUM)	OPERATION	WELL NAME	WELL #	SEC	TWP	RNG	SOURCE TIE CALLS	SUM LAT	SUM LONG	ROT LAT	ROT LONG	TD	STATUS
3002327090000	DISCOVERY OPER INC	DO FEDERAL	1	34	253	32E	6675S & 3107W	32.0805398	-103.6569419	32.0805398	-103.6569419	4.650'	DRY
30023082480000	FULFERTON OIL CO	BAUDY	1	36	253	32E	6607S & 6607W	32.0814767	-103.6604052	32.0814767	-103.6604052	9.450'	DRY
30023428910000	EOG RESOURCES INC	GEN 36 STATE COM	704H	36	253	32E	7457N & 11417E	32.0921266	-103.6230035	32.0921266	-103.6230035	4.933'	LOC
30023428910000	EOG RESOURCES INC	GEN 36 STATE COM	704H	36	253	32E	7457N & 11417E	32.0921266	-103.6230035	32.0921266	-103.6230035	4.933'	LOC
3002317660000	HUMBLE OIL & REFG CO	F L MERTON	1	1	265	32E	2507S & 22809E	32.0656527	-103.6270022	32.0656527	-103.6270022	2.027'	DRY
30023216810000	WOOD ROBERT L ET AL	MEGA 1105 N-P	1	1	265	32E	6807S & 6607W	32.0681827	-103.6343801	32.0681827	-103.6343801	4.360'	DRY
30023276500000	BITA OIL PRODUCERS, LLC	MEGA 1105 N-P	1	1	265	32E	11907S & 6607E	32.0701484	-103.6211331	32.0701484	-103.6211331	16.100'	QAS
30023276500000	BITA OIL PRODUCERS, LLC	MEGA 1105 N-P	1	1	265	32E	11907S & 6607E	32.0701484	-103.6211331	32.0701484	-103.6211331	16.100'	QAS
30023428480000	BITA OIL PRODUCERS, LLC	MEGA 1105 N-P	11H	1	265	32E	3107S & 22187E	32.0658467	-103.6293813	32.0658467	-103.6293813	14.946'	LOC
30023428480000	BITA OIL PRODUCERS, LLC	MEGA 1105 N-P	11H	1	265	32E	3107S & 22187E	32.0658467	-103.6293813	32.0658467	-103.6293813	14.946'	LOC
30023428480000	BITA OIL PRODUCERS, LLC	MEGA 1105 N-P	12H	1	265	32E	3107S & 11347E	32.0658319	-103.6293813	32.0658319	-103.6293813	13.428'	LOC
30023428480000	BITA OIL PRODUCERS, LLC	MEGA 1105 N-P	12H	1	265	32E	3107S & 11347E	32.0658319	-103.6293813	32.0658319	-103.6293813	13.428'	LOC
30023428480000	BITA OIL PRODUCERS, LLC	MEGA 1105 N-P	14H	1	265	32E	3107S & 4507E	32.0658418	-103.6293813	32.0658418	-103.6293813	14.448'	LOC
30023428480000	BITA OIL PRODUCERS, LLC	MEGA 1105 N-P	14H	1	265	32E	3107S & 4507E	32.0658418	-103.6293813	32.0658418	-103.6293813	14.448'	LOC
30023428480000	BITA OIL PRODUCERS, LLC	MEGA 1105 N-P	15H	1	265	32E	3107S & 22187E	32.0658319	-103.6293813	32.0658319	-103.6293813	13.428'	LOC
30023428480000	BITA OIL PRODUCERS, LLC	MEGA 1105 N-P	15H	1	265	32E	3107S & 22187E	32.0658319	-103.6293813	32.0658319	-103.6293813	13.428'	LOC
30023428480000	BITA OIL PRODUCERS, LLC	MEGA 1105 N-P	16H	1	265	32E	3107S & 11347E	32.0658319	-103.6293813	32.0658319	-103.6293813	13.428'	LOC
30023428480000	BITA OIL PRODUCERS, LLC	MEGA 1105 N-P	16H	1	265	32E	3107S & 11347E	32.0658319	-103.6293813	32.0658319	-103.6293813	13.428'	LOC
30023428480000	BITA OIL PRODUCERS, LLC	MEGA 1105 N-P	17H	1	265	32E	3107S & 22187E	32.0658319	-103.6293813	32.0658319	-103.6293813	13.428'	LOC
30023428480000	BITA OIL PRODUCERS, LLC	MEGA 1105 N-P	17H	1	265	32E	3107S & 22187E	32.0658319	-103.6293813	32.0658319	-103.6293813	13.428'	LOC
30023428480000	BITA OIL PRODUCERS, LLC	MEGA 1105 N-P	18H	1	265	32E	3107S & 11347E	32.0658319	-103.6293813	32.0658319	-103.6293813	13.428'	LOC
30023428480000	BITA OIL PRODUCERS, LLC	MEGA 1105 N-P	18H	1	265	32E	3107S & 11347E	32.0658319	-103.6293813	32.0658319	-103.6293813	13.428'	LOC
30023428480000	BITA OIL PRODUCERS, LLC	MEGA 1105 N-P	19H	1	265	32E	3	32.0658319	-103.6293813	32.0658319	-103.6293813	13.428'	LOC
30023399477000	EOG Y NECS INC	QUOTIE MOJ STATE COM	1H	2	265	32E	4607S & 16507E	32.066627	-103.641827	32.0707856	-103.642451	10.280'	PILOT
30023399477000	EOG Y NECS INC	QUOTIE MOJ STATE COM	1H	2	265	32E	4607S & 16507E	32.066627	-103.641827	32.0707856	-103.642451	10.280'	PILOT
30023399477000	EOG Y NECS INC	QUOTIE MOJ STATE COM	1H	2	265	32E	4607S & 16507E	32.066627	-103.641827	32.0707856	-103.642451	10.280'	PILOT
30023399477000	EOG Y NECS INC	QUOTIE MOJ STATE COM	1H	2	265	32E	4607S & 16507E	32.066627	-103.641827	32.0707856	-103.642451	10.280'	PILOT
30023399477000	EOG Y NECS INC	QUOTIE MOJ STATE COM	1H	2	265	32E	4607S & 16507E	32.066627	-103.641827	32.0707856	-103.642451	10.280'	PILOT
30023399477000	EOG Y NECS INC	QUOTIE MOJ STATE COM	1H	2	265	32E	4607S & 16507E	32.066627	-103.641827	32.0707856	-103.642451	10.280'	PILOT
30023399477000	EOG Y NECS INC	QUOTIE MOJ STATE COM	1H	2	265	32E	4607S & 16507E	32.066627	-103.641827	32.0707856	-103.642451	10.280'	PILOT
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Attachment to C-102  
Mesa 8105 JV-P SWD #1W

TABLE 1. Mesa SWD 8105 W-P #1W 2 Mile Radius Well Data Information													
UWI (API#UWI)	OPERATOR	WELL NAME	WELL #	SEC	TWP	RNG	SOURCE FRO CALLS	SURF LAT	SURF LONG	BOU LAT	BOU LONG	TD	STATUS
30023438570000	BITA OIL PRODUCERS, LLC	MEGA B105 W-P	23H	11	26S	32E	3070N & 4307E	32.0564762	-103.6528411	32.0507048	-103.6381366	14,554'	Oil
30023438570000	BITA OIL PRODUCERS, LLC	MEGA B105 W-P	23H	11	26S	32E	3070N & 4307E	32.0564594	-103.6528354	32.0507016	-103.6381316	14,554'	Oil
30023438570000	BITA OIL PRODUCERS, LLC	MEGA B105 W-P	23H	11	26S	32E	3070N & 4307E	32.0564594	-103.6528354	32.0507016	-103.6381316	14,554'	Oil
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30023438570000	BITA OIL PRODUCERS, LLC	MEGA B105 W-P	23H	11	26S	32E	3070N & 4307E	32.0564594	-103.6528354	32.0507016	-103.6381316	14,554'	Oil
30023438570000	BITA OIL PRODUCERS, LLC	MEGA B105 W-P	23H	11	26S	32E	3070N & 4307E	32.0564594	-103.6528354	32.0507016	-103.6381316	14,554'	Oil
30023438570000	BITA OIL PRODUCERS, LLC	MEGA B105 W-P	23H	11	26S	32E	3070N & 4307E	32.0564594	-103.6528354	32.0507016	-103.6381316	14,554'	Oil
30023438570000	BITA OIL PRODUCERS, LLC	MEGA B105 W-P	23H	11	26S	32E	3070N & 4307E	32.0564594	-103.6528354	32.0507016	-103.6381316	14,554'	Oil
30023438570000	BITA OIL PRODUCERS, LLC	MEGA B105 W-P	23H	11	26S	32E	3070N & 4307E	32.0564594	-103.6528354	32.0507016	-103.6381316	14,554'	Oil
30023438570000	BITA OIL PRODUCERS, LLC	MEGA B105 W-P	23H	11	26S	32E	3070N & 4307E	32.0564594	-103.6528354	32.0507016	-103.6381316	14,554'	Oil
30023438570000	BITA OIL PRODUCERS, LLC	MEGA B105 W-P	23H	11	26S	32E	3070N & 4307E	32.0564594	-103.6528354	32.0507016	-103.6381316	14,554'	Oil
30023438570000	BITA OIL PRODUCERS, LLC	MEGA B105 W-P	23H	11	26S	32E	3070N & 4307E	32.0564594	-103.6528354	32.0507016	-103.6381316	14,554'	Oil
30023438570000	BITA OIL PRODUCERS, LLC	MEGA B105 W-P	23H	11									



Attachement to C-108  
Mesa 8105 JV-P SWD #1W

1/2 Mile Radius Well Data

UWI (APINUM)	OPERATOR	WELL NAME	WELL #	SEC	TWP	RNG	SURFACE FTG CALLS	SURF LAT	SURF LONG	BOT LAT	BOT LONG	TD	STATUS
30025400010000	EOG Y RESCS INC	ZAPATA BQZ STATE COM	1H	2	26S	32E	330'FSL & 2180'FWL	32.06581	-103.6466863	32.078551	-103.6474562	13,660'	OIL
30025428410000	BTA OIL PRODUCERS, LLC	MESA SWD 8105 JV-P	1W	11	26S	32E	1800'FNL & 1900'FWL	32.05995	-103.6475644				REC-LOC
30025428550000	BTA OIL PRODUCERS, LLC	MESA 8105 JV-P	20H	11	26S	32E	330'FNL & 630'FWL	32.06395	-103.6516799	32.0507919	-103.6505213		LOC
30025428560000	BTA OIL PRODUCERS, LLC	MESA 8105 JV-P	21H	11	26S	32E	330'FNL & 2398'FWL	32.064	-103.6459735	32.0508391	-103.6458767		LOC
30025412890300	BTA OIL PRODUCERS, LLC	MESA 8105 JV-P	2H	11	26S	32E	330'FNL & 430'FWL	32.06394	-103.6523254	32.0510416	-103.6521215	14,026'	OIL
30025428420000	BTA OIL PRODUCERS, LLC	MESA 8105 JV-P	4H	11	26S	32E	330'FNL & 1399'FWL	32.06397	-103.6491978	32.050805	-103.649205	14,355'	OIL
30025428430000	BTA OIL PRODUCERS, LLC	MESA 8105 JV-P	5H	11	26S	32E	330'FNL & 2198'FWL	32.064	-103.646619	32.0508334	-103.6464315		LOC
30025428440000	BTA OIL PRODUCERS, LLC	MESA 8105 JV-P	6H	11	26S	32E	330'FNL & 2198'FEL	32.06403	-103.6435693	32.0508624	-103.643487	14,445'	OIL
30025428450000	BTA OIL PRODUCERS, LLC	MESA 8105 JV-P	7H	11	26S	32E	330'FNL & 1720'FEL	32.06404	-103.6420265	32.0508841	-103.6406355		LOC

1/2 Mile Radius AOR Well Data

Well Name	Operator	Location	Type of Well	Spud Date	Comp Date	TD PBD	Comp Interval	Producing Formation	Casing Program			
									Casing	Depth	Amt Cmt	Circ
8105 JV-P Mesa SWD #1W	BTA Oil Producers, LLC	1800' FNL & 1900' FWL 11-T26S-R32E	DISP	New (Not drilled)	New (Not drilled)	19000' TVD Proposed	(Disp.) 17450'-19000' Proposed	(Disp.) Devonian	13-3/8" 9-5/8" 7" 6" proposed	790' 1200' 17450' 19000' proposed	635 1630 850 Open Hole proposed	Circ Circ Circ proposed
Zapata BQZ State Com #2	Yates Petroleum Corp	330' FSL & 2180' FWL 2-T26S-R32E	OIL	6/8/2011	12/2/2011	13660'	9370'-13,555'	Bone Spring	26" 13-3/8" 9-5/8" 5-1/2"	40' 765' 4785' 13660'	Conduction 610 1561 1790	Circ Circ
Mesa 8105 JV-P #2H	BTA Oil Producers, LLC	330' FNL & 430' FWL 11-T26S-R32E	OIL	9/27/2014	5/10/2015	14026' MD 9650' TVD	12,482'-13,988'	Jennings; Upper Bone Spring	13-3/8" 9-5/8" 5-1/2"	924' 4532' 14008'	770 1400 1950	Circ Circ 3550'
Mesa 8105 JV-P #4H	BTA Oil Producers, LLC	330' FNL & 1399' FWL 11-T26S-R32E	OIL	10/20/2014	2/10/2015	14355' MD 9620' TVD	8704'-13755'	Jennings; Upper Bone Spring	13-3/8" 9-5/8" 5-1/2"	801' 4570' 14335'	770 1460 1745	Circ Circ 700'
Mesa 8105 JV-P #5H	BTA Oil Producers, LLC	330' FNL & 2198' FWL 11-T26S-R32E	LOC	New (Not drilled)	New (Not drilled)	14104' MD 9520' TVD Proposed	New (Not drilled)	Jennings; Upper Bone Spring	13-3/8" 9-5/8" 5-1/2" proposed	790' 4600' 14104' proposed	770 1200 1950 proposed	Circ Circ proposed
Mesa 8105 JV-P #6H	BTA Oil Producers, LLC	330' FNL & 2198' FEL 11-T26S-R32E	OIL	12/12/2015	8/6/2016	14445' MD 9600' TVD	9061'-14445'	Jennings; Upper Bone Spring	13-3/8" 9-5/8" 5-1/2"	750' 4500' 14445'	840 1570 1745	Circ Circ Circ
Mesa 8105 JV-P #7H	BTA Oil Producers, LLC	330' FNL & 1720' FEL 11-T26S-R32E	LOC	New (Not drilled)	New (Not drilled)	14120' MD 9520' TVD Proposed	New (Not drilled)	Jennings; Upper Bone Spring	13-3/8" 9-5/8" 5-1/2" proposed	790' 4610' 14121' proposed	770 1200 1950 proposed	Circ Circ proposed
Mesa 8105 JV-P #20H	BTA Oil Producers, LLC	330' FNL & 630' FWL 11-T26S-R32E	LOC	New (Not drilled)	New (Not drilled)	16230' MD 11635' TVD Proposed	New (Not drilled)	Jennings; Upper Bone Spring	13-3/8" 9-5/8" 5-1/2" proposed	820' 4533' 16230' proposed	770 1200 1950 proposed	Circ Circ proposed
Mesa 8105 JV-P #21H	BTA Oil Producers, LLC	330' FNL & 2398' FWL 11-T26S-R32E	LOC	New (Not drilled)	New (Not drilled)	16219' MD 11635' TVD Proposed	New (Not drilled)	Jennings; Upper Bone Spring	13-3/8" 9-5/8" 5-1/2" proposed	790' 4587' 16219' proposed	770 1200 1950 proposed	Circ Circ proposed



Submit 1 Copy To Appropriate District

Office

District I 1625 N. French Dr., Hobbs, NM 88240

District II 1301 W. Grand Ave., Artesia, NM 88210

District III 1000 Rio Brazos Rd., Aztec, NM 87410

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION

220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-103

October 13, 2009

WELL API NO.  
30-025-40001

5. Indicate Type of Lease

STATE ☒ FEE ☐

6. State Oil & Gas Lease No.

VB-853

7. Lease Name or Unit Agreement Name

Zapata BQZ State Com

8. Well Number

1H

9. OGRID Number

025575

10. Pool name or Wildcat

Wildcat; Bone Spring

SUNDY 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" (FORM C-101) FOR SUCH PROPOSALS)

1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐

2. Name of Operator

Yates Petroleum Corporation

3. Address of Operator

105 South Fourth Street, Artesia, NM 88210

4. Well Location

Surface N : 330 feet from the South line and 2180 feet from the West line  
BHL C : 330 feet from the North Line and 1980 feet from the West line  
Section 2 Township 26S Range 32E NMPM Lea County

11. Elevation (Show whether DR, RKB, RT, GR, etc.)

3256'GR

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐  
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐  
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐  
DOWNHOLE COMMINGLE ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐  
COMMENCE DRILLING OPNS. ☐ P AND A ☐  
CASING/CEMENT JOB ☐

OTHER: ☐

OTHER: Production casing ☒

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

6/23/11 - Drilled to 8658' KOP and continued to drill directionally.

6/27/11 - Drilled to 9255' and reduced hole to 8-1/2".

7/13/11 - TD 8-1/2" hole to 13,660'.

7/15/11 - Set 5-1/2" 20# L-80 LT&C casing at 13,660'. DV tool/stage tool at 7321'. Float collar at 13,567'. Cemented stage 1 with 200 sx 35:65:6 Poz "H" + 6% D020 + 3#/sx D042 + 5% D044 + 0.2% D046 + 1% D112 + 0.125#/sx D130 + 0.125#/sx D130 + 28#/sx D132 + 0.03g/sx D177 + 61#/sx D909 (yld 2.09, wt 12.6). Tailed in with 940 sx Class "C" + 0.2% D046 + 75#/sx D049 + 0.5% D079 + 0.5% D112 + 22.5#/sx D151 + 1.5% D174 + 0.3g/sx D177 + 0.9% D800 (yld 1.83, wt 13). Circulated DV tool at 7321' (full returns). Did not circulate any cement to pit. Cemented stage 2 with 550 sx 35:65:6 Poz "C" + 6% D020 + 2#/sx D042 + 5% D044 + 0.2% D046 + 1% D112 + 0.125#/sx D130 + 28#/sx D132 + 0.2% D201 + 61#/sx D903 (yld 2.08, wt 12.6). Tailed in with 100 sx Class "C" + 0.2% D201 (yld 1.33, wt 14.8). Closed DV tool. ND BOP. Tested to 5000 psi, Ok.

Spud Date:

1/31/11

Rig Release Date:

7/17/11

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

SIGNATURE Tina Huerta TITLE Regulatory Compliance Supervisor DATE July 28, 2011

Type or print name Tina Huerta E-mail address: tinah@yatespetroleum.com PHONE: 575-748-4168

For State Use Only

APPROVED BY: [Signature] TITLE PETROLEUM ENGINEER DATE AUG 01 2011

Conditions of Approval (if any):



P. O. BOX 1488  
MCKINNEY, TEXAS 75069  
PH: 943-3234 OR 663-1040

Marlin Water Laboratories, Inc.

8105 JV-P Mesa SWD #1W  
Associated with C-108

709 W. INDIANA  
MIDLAND, TEXAS 79701  
PHONE 688-4521

RESULT OF WATER ANALYSES

TO: Mr. Tom Williams LABORATORY NO. 89713  
104 South Pecos, Midland, TX 79701-3099 SAMPLE RECEIVED 8-5-97  
RESULTS REPORTED 8-6-97  
COMPANY BTA Oil Producers LEASE Mesa #1 8105  
FIELD OR POOL \_\_\_\_\_  
SECTION 1 BLOCK 1 SURVEY 2658K-32E COUNTY Lee 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 <sub>3</sub>	390			
Supersaturation as CaCO <sub>3</sub>				
Undersaturation as CaCO <sub>3</sub>				
Total Hardness as CaCO <sub>3</sub>	720			
Calcium as Ca	232			
Magnesium as Mg	34			
Sodium and/or Potassium	7.483			
Sulfate as SO <sub>4</sub>	48			
Chloride as Cl	11.786			
Iron as Fe	971			
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 mgd.				
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.



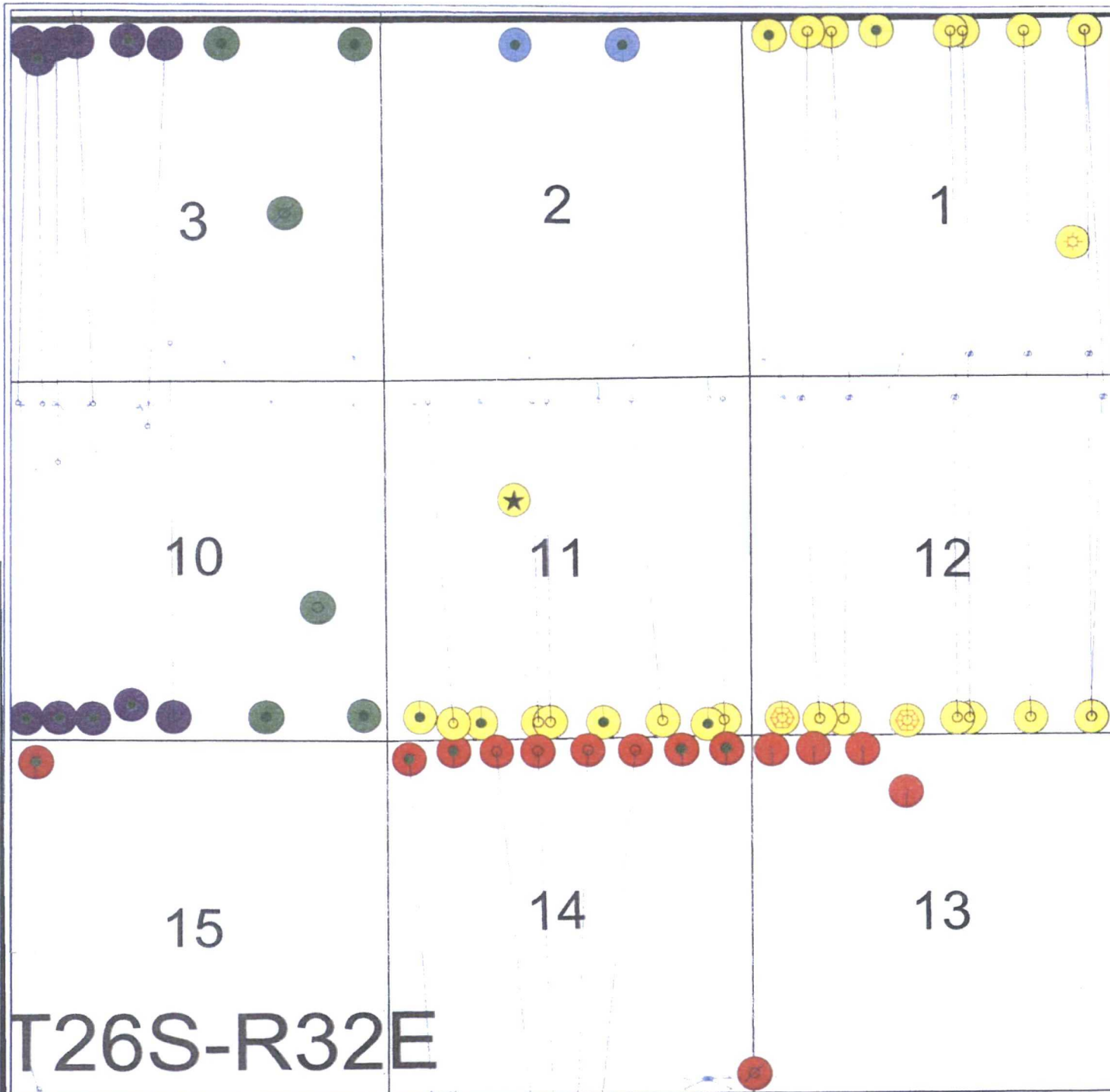
8105 JV-P Mesa SWD #1W  
Associated with C-108

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	Gunner	8 Fed 8H		3/12/2012	12/17/2011	1.09	2.20	132205.83	5.90		11390.50	2098.17

TH (CaCO3)	Na (mg/L)	K (mg/L)	Zn (mg/L)	Fe (mg/L)	Ba (mg/L)	Sr (mg/L)	Mn (mg/L)	Resistivity	HCO3 (mg/L)	CO3 (mg/L)	OH (mg/L)	SO4 (mg/L)	Cl (mg/L)	CO2 (mg/L)	H2S (mg/L)	
37551.69	48017.49	593.89	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

1/2



**BTA Oil Producers, LLC**

**8105 JV-P Mesa SWD #1W**

Active Operator Map  
Sec 11, T26S-R32E  
Lea County, New Mexico

**ATTRIBUTE MAP**

- Operator Name Contains "BTA"
- Operator Name Contains "CHEVRON"
- Operator Name Contains "COG"
- Operator Name Contains "EOG"
- Operator Name Contains "MEWBOURNE"

**WELL SYMBOLS**

- ★ Proposed Location
- Location Only
- Drilled, Waiting on Completion
- Completing/Completed
- Oil Well
- Gas Well
- ⊗ Injection Well

**REMARKS**

Only Active Locations Shown on Map

By JHB

0 2,000 4,000  
FEET

February 16, 2017



BTA Oil Producers, LLC  
Application for Authorization to Inject  
Mesa 8105 JV-P SWD #1W  
1800' FNL & 1900' FWL  
Section 11, T26S, R32E  
Lea County, New Mexico

Attachment to C-108

VII    Operation Data

1. Proposed average Daily Injection volume    30,000 BWPD  
Proposed Maximum daily injection volume    60,000 BWPD
2. This will be a closed system.
3. Proposed average daily injection pressure    2500 psi  
Proposed maximum daily injection pressure    3490 psi
4. Sources of injection water will be produced water from area that have been  
and will be drilled. These will be compatible with waters in disposal zones.

BTA Oil Producers, LLC  
Application for Authorization to Inject  
Mesa 8105 JV-P SWD #1W  
1800' FNL & 1900' FWL  
Section 11, T26S, R32E  
Lea County, New Mexico

Attachment to C-108

VII    Item 5

Disposal Zone Formation Water

Injection into the Mesa 8105 JV-P SWD #1W API 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.

BTA Oil Producers, LLC  
Application for Authorization to Inject  
Mesa 8105 JV-P SWD #1W  
1800' FNL & 1900' FWL  
Section 11, T26S, R32E  
Lea County, New Mexico

Attachment to C-108

#### VIII Geologic Data

Mesa 8105 JV-P SWD #1W 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.

##### B. Fresh Water Sources:

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



A

A'

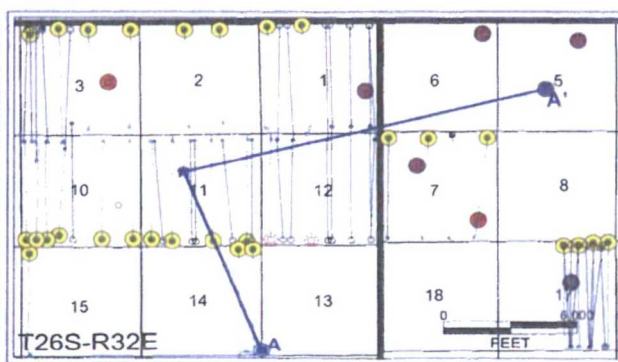
CHEVRON USA INC.  
SALADO DRAW SWD 13

BTA OIL PRODUCERS, LLC  
MESA SWD 8105 JV-P

CIMAREX ENERGY CO OF COLORADO  
RED HILLS UNIT

DEVONIAN

DEVONIAN



BTA OIL PRODUCERS, LLC

8105 JV-P Mesa SWD #1W

A - A' Stratigraphic Cross Section

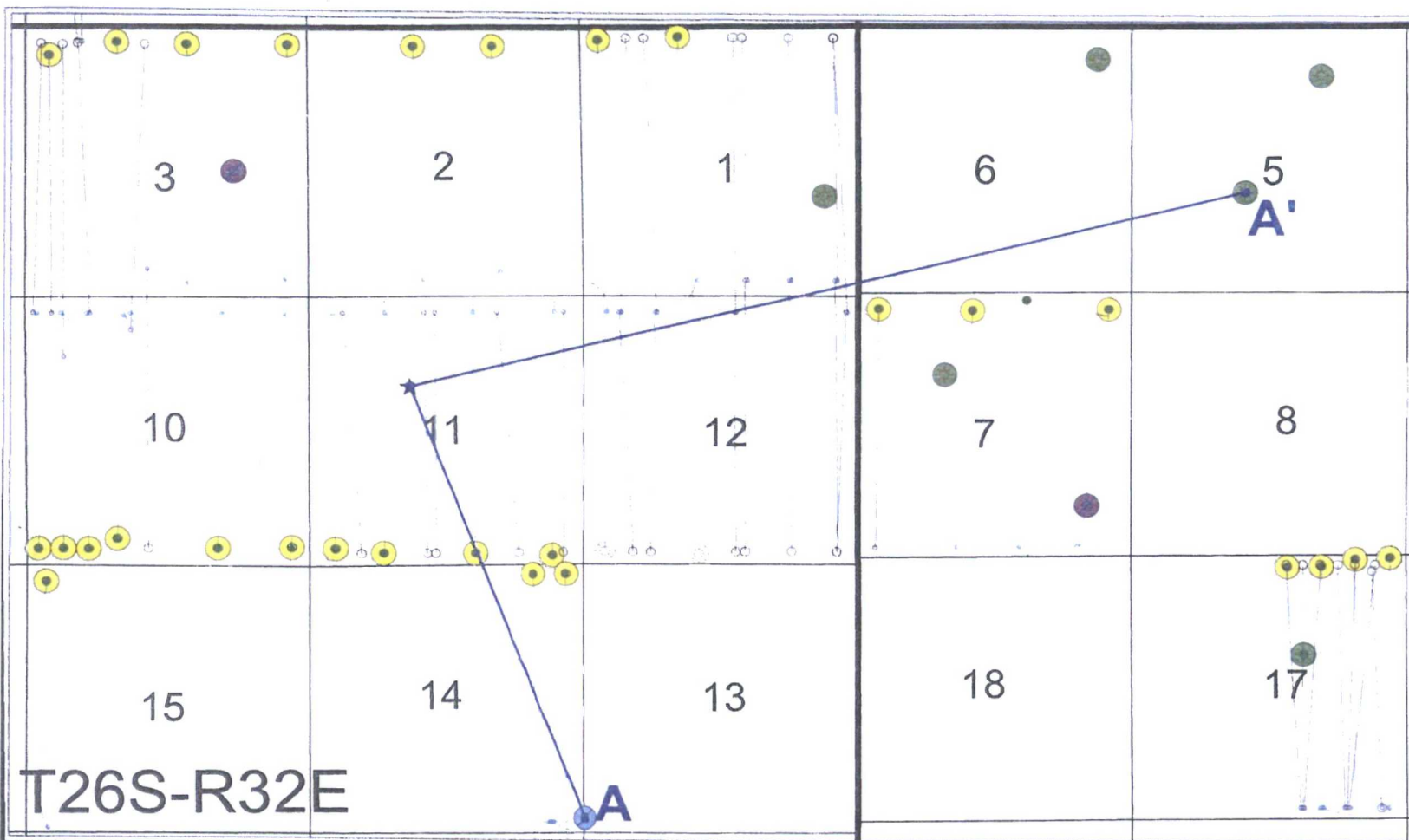
Devonian

TOPS AND MARKERS

DEVONIAN

\*\*\* Proposed Injection Interval Indicated In Red \*\*\*

By JHB



**BTA Oil Producers, LLC**

8105 JV-P Mesa SWD #1W

Producing Formation Map

Sec 11 T26S-R32E

Lea County, New Mexico

**ATTRIBUTE MAP**

- Producing Formation Contains "DELAWARE"
- Producing Formation Contains "BONESPRING"
- Producing Formation Contains "WOLFCAMP"
- Producing Formation Contains "DEVONIAN"

**WELL SYMBOLS**

- Proposed Location
- Location Only
- Drilled, Waiting on Completion
- Completing/Completed
- Oil Well
- Gas Well
- Oil & Gas Well
- Injection Well

**REMARKS**

Top of Devonian Stratigraphic Cross Section Shown On Map

Only Active Wells Shown on the Map

By JHB

0 2,400 4,800

FEET

February 16, 2017



BTA Oil Producers, LLC  
Application for Authorization to Inject  
Mesa 8105 JV-P SWD #1W  
1800' FNL & 1900' FWL  
Section 11, T26S, R32E  
Lea County, NM

Attachment to C-108

- X Will run Gamma Ray Neutron Log.
- XI No water wells are located in the 1-mile area surrounding the Mesa 8105 JV-P SWD #1W well. Within the 1-mile radius there is an injection well, Pintail 3 Federal SWD #1, operated by COG.
- 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.

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

(acre ft per annum)						C=the file is closed)		(quarters are smallest to largest) (NAD83 UTM in meters)										
WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	Q 1	Q 2	Q 3	Q 4	Sec.	Twa	Rng	X	Y
<u>C 02271</u>	CUB	PDL		3 OLIVER KIEHNE	LE	<u>C 02271</u>	R			2	3	21	26S	32E			624449	3544111'
					LE	<u>C 02271 POD2</u>			Shallow	3	2	3	21	26S	32E		624348	3544010'
<u>C 02274</u>		STK		3 BUCK & LARUE JACKSON	LE	<u>C 02274</u>				2	1	2	31	26S	32E		621742	3541730'
<u>C 02323</u>	C	DOL		3 M R MADERA TRUST	LE	<u>C 02323</u>			Shallow	3	2	3	21	26S	32E		624348	3544010'
<u>C 03537</u>	C	EXP		0 GREGORY ROCKHOUSE RANCH, INC.	LE	<u>C 03537 POD1</u>				3	2	3	21	26S	32E		624250	3543985'
<u>C 03595</u>	CUB	EXP		0 OLIVER D KIEHNE	LE	<u>C 03595 POD1</u>			Shallow	4	2	3	21	26S	32E		624422	3544045'
<u>C 03829</u>	CUB	EXP		0 GREGORY ROCKHOUSE RANCH INC	LE	<u>C 03829 POD1</u>		NON	Shallow	3	3	1	06	26S	32E		620628	3549186'

3/3/17 7:41 AM

### ACTIVE & INACTIVE POINTS OF DIVERSION

Attachment to C-108  
Mesa 8105 JV-P SWD #1W





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

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

(R=POD has been replaced,

O=orphaned,

C=the file is closed)

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

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

(In feet)

POD Number	Code	POD Sub-basin	County	Q 6	Q 4	Q 16	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
<u>C 02271</u>	R		LE	2	3	21	26S	32E		624449	3544111*	150	125	25
<u>C 02271 POD2</u>		CUB	LE	3	2	3	21	26S	32E	624348	3544010*	270	250	20
<u>C 02274</u>			LE	2	1	2	31	26S	32E	621742	3541730*	300	295	5
<u>C 02323</u>		C	LE	3	2	3	21	26S	32E	624348	3544010*	405	405	0
<u>C 03537 POD1</u>		C	LE	3	2	3	21	26S	32E	624250	3543985	850		
<u>C 03595 POD1</u>		CUB	LE	4	2	3	21	26S	32E	624423	3544045	280	180	100
<u>C 03829 POD1</u>		CUB	LE	3	3	1	06	26S	32E	620628	3549186	646	350	296

Average Depth to Water: **267 feet**

Minimum Depth: **125 feet**

Maximum Depth: **405 feet**

**Record Count: 7**

**Basin/County Search:**

Basin: Carlsbad

County: Lea

**PLSS Search:**

Section 1-36

Township: 26S

Range: 32E

(s):

\*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.

3/3/17 7:39 AM

WATER COLUMN/ AVERAGE DEPTH TO  
WATER

Attachment to C-108

Mesa 8105 JV-P, SWD #1W

BTA Oil Producers, LLC  
Application for Authorization to Inject  
Mesa 8105 JV-P SWD #1W  
1800' FNL & 1900' FWL  
Section 11, T26S, R32E  
Lea County, New Mexico

Attachment to C-108

XIII Notice of Offset Operators Within ½ Mile

**Working Interest Owners**

BTA Oil Producers, LLC

JOA Interest Group to be noticed with AFE distribution

**Surface Owner**

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

**Grazing Lease Owner**

**Oliver Kiehne**  
P. O. Box 135  
Orla, TX 79770

**Offset Operator list**

**BTA Oil Producers, LLC**  
104 S. Pecos  
Midland, TX 79701

**WTG Exploration Inc**  
401 W Wadley Ave  
Midland, TX 79705

**Kaiser Francis Oil**  
P. O. Box 21463  
Tulsa, OK 74121

**Yates Petroleum Corp.**  
105 S 4<sup>th</sup> St.  
Artesia, NM 88210

**Pioneer Exploration LTD**  
15603 Kuyhendahl #219  
Houston, TX 77090

**Mewbourne Oil Company**  
P.O. Box 5270  
Hobbs, NM 88241

**COG Operating LLC**  
600 W Illinois Ave  
Midland, TX 79701

In addition, I hereby certify that notification of BTA's application was mailed via certified mail to the above named parties on the 3<sup>rd</sup> day of March, 2017.

  
Kayla McConnell





## 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  
800.17TH STREET, STE. 2230 SOUTH  
DENVER, COLORADO 80202  
303-534-4404 FAX 303-534-4661

March 18, 2015

In re: Mesa SWD #1 W ½ Mile Radius  
Section 11  
T-26-S, R-32-E  
Lea County, NM

Leasehold Tract: All of Section 11, T-26-S, R-32-E, Lea County, New Mexico

<u>Ownership</u>	<u>Owner Information</u>	<u>Interest</u>
Working Interest	BTA Oil Producers, LLC 104 S. Pecos Midland, TX 79701	62.331081%
Working Interest	Kaiser Francis Oil Company P.O. Box 21468 Tulsa, OK 74121	27.668919%
Working Interest	Atlas OBO Energy, LP 15603 Kuykendahl, Ste 200 Houston, TX 77090	7.500000%
Working Interest	Royalty Clearinghouse 2003 LLC 401 Congress Ave., Ste. 1750 Austin, TX 78701	1.250000%
Working Interest	WTG Exploration, Inc. 401 West Wadley Ave Midland, TX 79705	1.250000%
		100.000000%

Leasehold Estate

Oil and Gas Lease

Lease No: NM 14492

Date: November 1, 1971

Lessor: Unites States of America

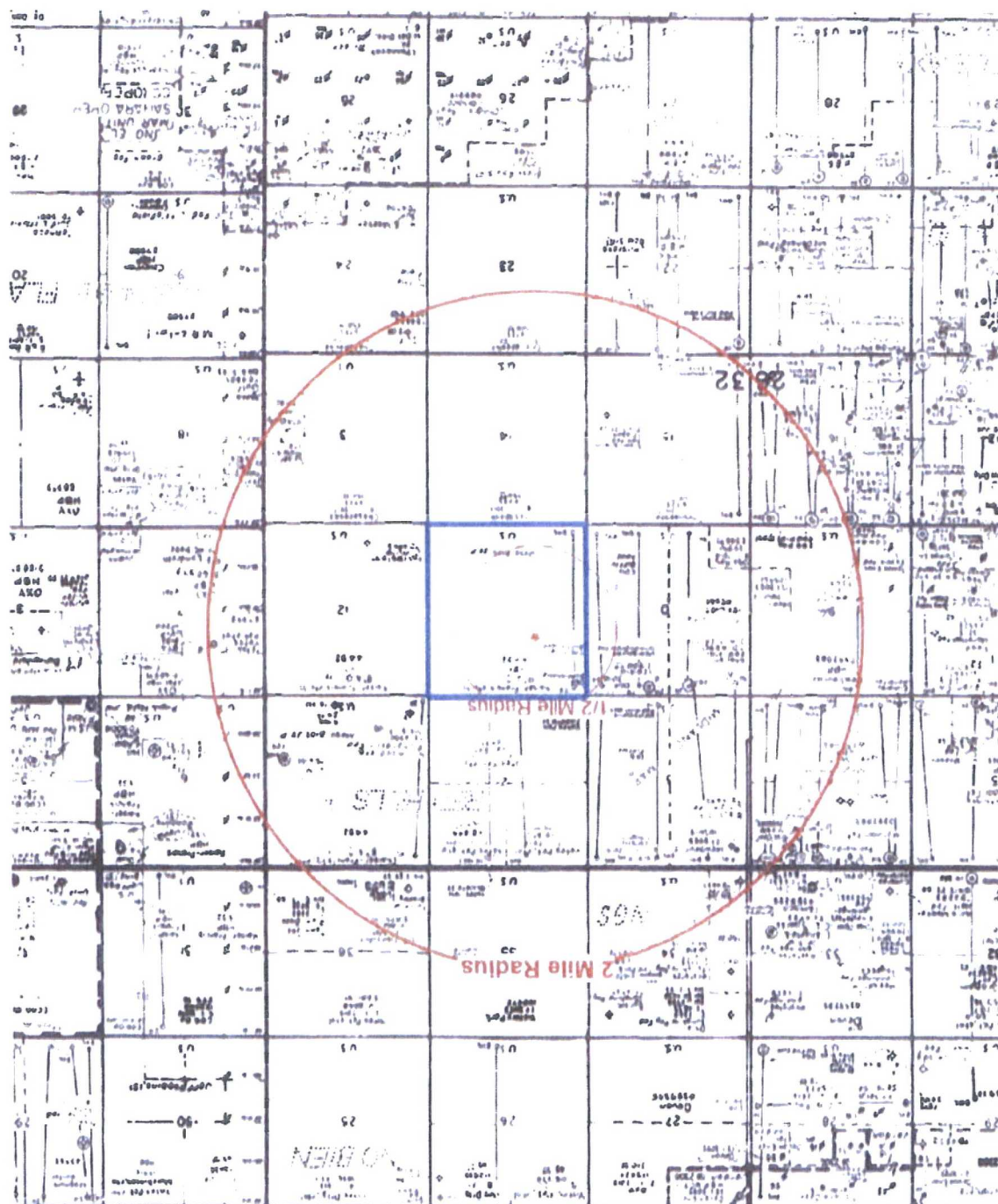
Lessee: Lester Alston

Royalty: 12.5%

Attachment: Map

MTM







## 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 713-655-0348

ROCKY MOUNTAIN DISTRICT  
800 17TH STREET, STE. 2230 SOUTH  
DENVER, COLORADO 80202  
303-534-4404 FAX 303-534-4681

March 12, 2015

In re: Mesa SWD #1W ½ Mile Radius  
Section 11  
T-26-S, R-32-E  
Lea County, NM

---

Leasehold Tract: East 320 acres of Section 10, T-26-S, R-32-E, Lea County, New Mexico

### Ownership

Working Interest

### Owner Information

COG Production LLC  
600 W. Illinois Ave  
One Concho Center  
Midland, TX 79701

### Interest

100%

### Leasehold Estate

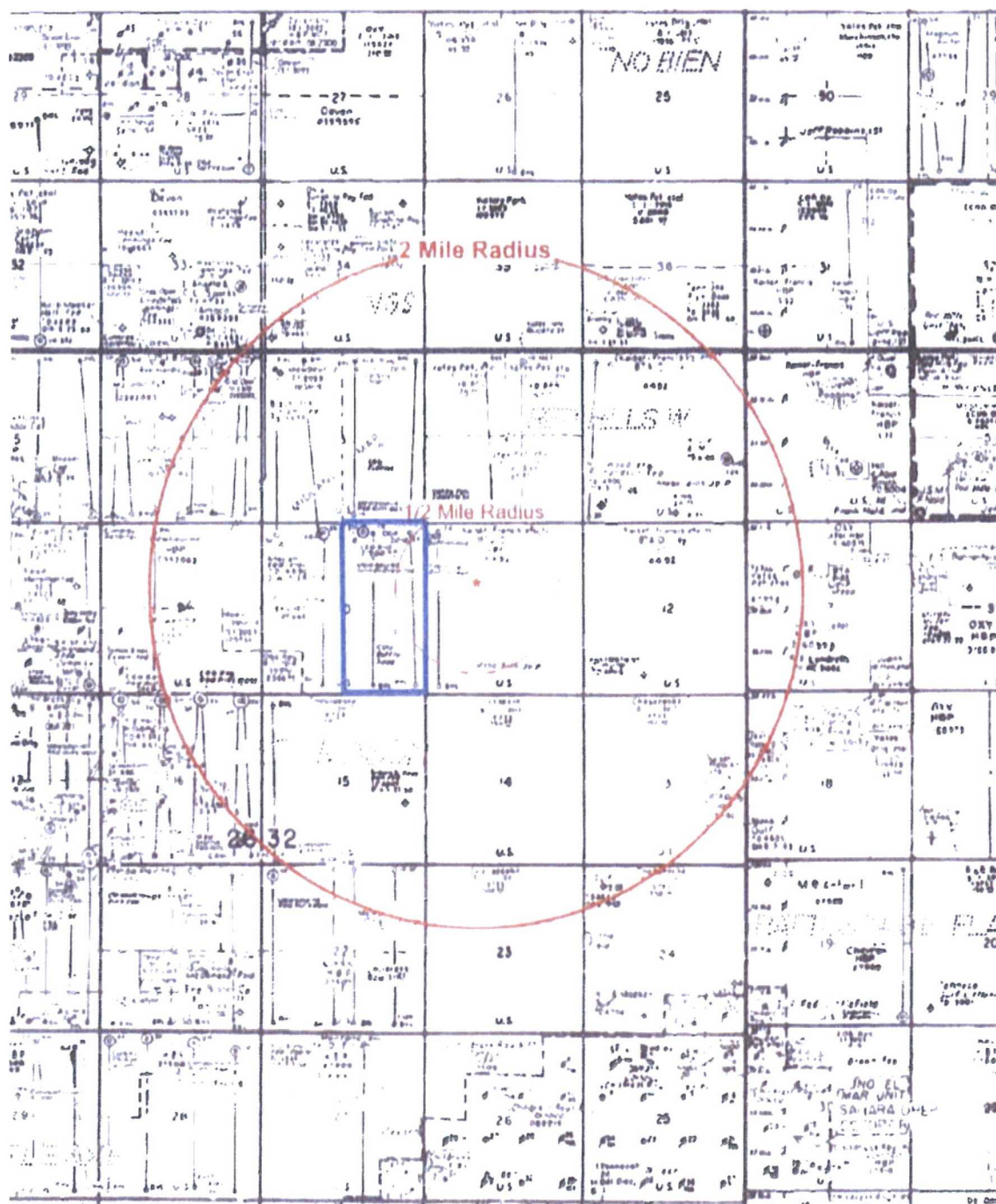
#### Oil and Gas Lease

Lease No: NM 120910  
Date: November 1, 2008  
Lessor: Unites States of America  
Lessee: OGX Resources, LLC  
Royalty: 12.5%

Attachment: Map

MTM





BTA Oil Producers, LLC  
Application for Authorization to Inject  
Mesa 8105 JV-P SWD #1W  
1800' FNL & 1900' FWL  
Section 11, T26S, R32E  
Lea County, New Mexico

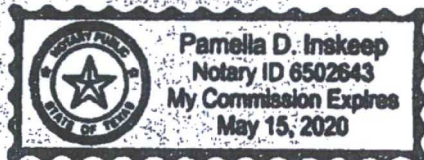
Attachment to C-108

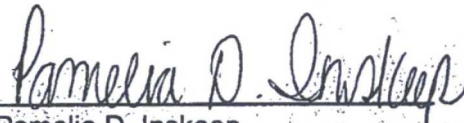
STATE OF TEXAS

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 March 3, 2017, of the New Mexico Oil Conservation Division Form C-108 "Application for Authorization to Inject" for the Mesa 8105 JV-P SWD #1W, located in section 11, T26S, R32E, Lea County, New Mexico.

SUBSCRIBED AND SWORN TO before me on this 3<sup>rd</sup> day of March, 2017, to certify which witness my hand and seal of office.



  
Pamela D. Inskeep  
Notary Public, State of Texas



# Affidavit of Publication

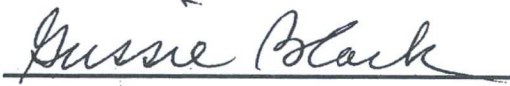
STATE OF NEW MEXICO  
COUNTY OF LEA

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).

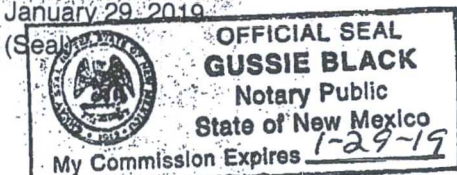
Beginning with the issue dated  
February 08, 2017  
and ending with the issue dated  
February 08, 2017.

  
Publisher

Sworn and subscribed to before me this  
8th day of February 2017.

  
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 February 8, 2017

BTA OIL PRODUCERS LLC, 104 S Pecos, Midland, Texas 79701, will file form C7108 (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 Mesa SWD 8105 JV-P #1W is located 1800' FNL & 1900' FWL; Section 11, T26S, R32E, 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 17450'-19000', at a maximum surface pressure of 3490 psi, and an average rate of 30000 BWP.


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.  
#31531


01101299


00188264

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

FILL IN THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<p>1. Complete Items 1, 2, and 3.</p> <p>2. Print your name and address on the reverse so that we can return the card to you.</p> <p>3. Attach this card to the back of the mailpiece, or on the front if space permits.</p> <p>4. Article Addressed to:</p> <p style="text-align: center; font-size: 1.2em; font-weight: bold;">Bureau of Land MGMT</p> <p style="text-align: center; font-size: 1.2em; font-weight: bold;">620 E. Greene St.</p> <p style="text-align: center; font-size: 1.2em; font-weight: bold;">Carlsbad, NM 88220</p> <p style="text-align: center; font-size: 0.8em; margin-top: 10px;">POSTAGE WILL BE PAID BY ADDRESSEE</p> <p>5. Article Number (Transfer from service label)</p>	<p>A. Signature _____</p> <p style="text-align: right;"><input type="checkbox"/> Agent By Address _____</p> <p>B. Received by (Printed Name) _____</p> <p style="text-align: right;">C. Date of Delivery <u>3/6/17</u></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>E. Service Type: <input type="checkbox"/> Priority Mail Express®  <input type="checkbox"/> Adult Signature  <input type="checkbox"/> Adult Signature Restricted Delivery  <input type="checkbox"/> Certified Mail®  <input type="checkbox"/> Certified Mail Restricted Delivery  <input type="checkbox"/> Collect on Delivery  <input type="checkbox"/> Collect on Delivery Restricted Delivery (insured Mail, except for Registered Mail, and over \$500)  <input type="checkbox"/> Registered Mail®  <input type="checkbox"/> Registered Mail Restricted Delivery  <input type="checkbox"/> Return Receipt for Merchandise  <input type="checkbox"/> Signature Confirmation®  <input type="checkbox"/> Signature Confirmation Restricted Delivery</p>

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  </p> <p>B. Received by (Printed Name)  <u>Kelli Gonzalez</u></p> <p>C. Date of Delivery  <u>3/6/17</u></p>	
<p>1. <i>(Indicate if additional mail)</i></p> <p><b>WTG Exploration Inc</b>  <b>401 W Wadley Ave</b>  <b>Midland, TX 79705</b></p>		<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If YES, enter delivery address below:</p>	
<p>2. Article Number (Transfer from service label)</p> <p>9590 9403 0938 5223 1770 50</p>		<p>3. Service Type</p> <p><input type="checkbox"/> Adult Signature</p> <p><input type="checkbox"/> Adult Signature Restricted Delivery</p> <p><input type="checkbox"/> Certified Mail</p> <p><input type="checkbox"/> Certified Mail Restricted Delivery</p> <p><input type="checkbox"/> Collected on Delivery</p> <p><input type="checkbox"/> Collected on Delivery Restricted Delivery</p> <p><input type="checkbox"/> Insured Mail</p> <p><input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</p>	
<p>PS Form 3811, July 2015 PSN 7530-01-000-9001</p>		<p>07015 0640 0001 5094 2273 m Reproduc</p>	

<b>SENDER: COMPLETE THIS SECTION</b> ■ Complete Items 1, 2, and 3. ■ Print your name and address on the back 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: <div style="text-align: center;"> <b>COG Operating LLC</b>  <b>600 W Illinois Ave</b>  <b>Midland, TX 79701</b> </div>		<b>COMPLETE THIS SECTION ON DELIVERY</b> A. Signature  <input type="checkbox"/> Agent <input checked="" type="checkbox"/> Addressee B. Received by (Printed Name) C. Date of Delivery 11/17/17 D. Is delivery address different from Item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No	
2. Article Number (Transfer from service label) 859C 8403 0938 8223 1770 28		3. Service Type <input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Registered Mail® <input checked="" type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Certified Mail® Restricted Delivery <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Insured Mail <input type="checkbox"/> Insured Mail Restricted Delivery <input type="checkbox"/> Return Receipt <input type="checkbox"/> Signature Confirmation® <input type="checkbox"/> Signature Confirmation Restricted Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery	
PS Form 3811, Jan 2016 PSN 7630-0		7015 0640 0001 5078 2327	

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1. Article Addressed to: <b>Pioneer Exploration LTD</b> <b>15603 Kuykendahl #219</b> <b>Houston, TX 77090</b>		2. Service Type <input checked="" type="checkbox"/> Registered Mail <input checked="" type="checkbox"/> Registered Restricted Delivery <input checked="" type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Signature Confirmation <input type="checkbox"/> Signature Confirmation Restricted Delivery <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Insured Mail (over \$500) <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)	
2. Article Number (Transfer from service label) 9505 9443 0538 5223 7710 76		3. Priority Mail Express <input type="checkbox"/> Registered Mail <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Signature Confirmation <input type="checkbox"/> Signature Confirmation Restricted Delivery	
PS Form 3811, July 2015 PSN 7015 0640		0001 5098 2303	



7015 0640 0001 5096 2297

U.S. Postal Service  
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**OFFICIAL USE**

Article Addressed to:  
**Yates Petroleum Corp.**  
105 S 4<sup>th</sup> St.  
Artesia, NM 88210

PS Form 3811, July 2015 PSN 7530-02

## 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:  
**Yates Petroleum Corp.**  
105 S 4<sup>th</sup> St.  
Artesia, NM 88210

PS Form 3811, July 2015 PSN 7530-02

## COMPLETE THIS SECTION ON DELIVERY

- A. Signature  
**X B. Received by (Printed Name)**  
**C. Date of Delivery**  
D. Is delivery address different from item 1? ☐ Yes ☐ No  
If YES, enter delivery address below:

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  
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☐ Signature Confirmation Restricted Delivery

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7015 0640 0001 5096 2260

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

**OFFICIAL USE**

Article Addressed to:  
**Kaiser Francis Oil**  
P.O. Box 21463  
Tulsa, OK 74121

PS Form 3811, July 2015 PSN 7530-02

## 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:  
**Kaiser Francis Oil**  
P.O. Box 21463  
Tulsa, OK 74121

PS Form 3811, July 2015 PSN 7530-02

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**C. Date of Delivery**  
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If YES, enter delivery address below:

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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Return Receipt

7015 0640 0001 5098 2310

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

**OFFICIAL USE**

Article Addressed to:  
**Mewbourne Oil Company**  
P.O. Box 5270  
Hobbs, NM 88241

PS Form 3811, July 2015 PSN 7530-02

## 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:  
**Mewbourne Oil Company**  
P.O. Box 5270  
Hobbs, NM 88241

PS Form 3811, July 2015 PSN 7530-02

## COMPLETE THIS SECTION ON DELIVERY

- A. Signature  
**X B. Received by (Printed Name)**  
**C. Date of Delivery**  
D. Is delivery address different from item 1? ☐ Yes ☐ No  
If YES, enter delivery address below:

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

7015 0640 0001 5098 2310

Return Receipt

7015 0640 0001 5098 2266

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Domestic Mail Only

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

**OFFICIAL USE**

Article Addressed to:  
**Oliver Kiehne**  
P.O. Box 135  
Ora, TX 79770

PS Form 3811, July 2015 PSN 7530-02

## 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:  
**Oliver Kiehne**  
P.O. Box 135  
Ora, TX 79770

PS Form 3811, July 2015 PSN 7530-02

## COMPLETE THIS SECTION ON DELIVERY

- A. Signature  
**X B. Received by (Printed Name)**  
**C. Date of Delivery**  
D. Is delivery address different from item 1? ☐ Yes ☐ No  
If YES, enter delivery address below:

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

7015 0640 0001 5098 2266

Return Receipt

**Kayla McConnell**

---

**From:** Melissa Dimit <MDimit@concho.com>  
**Sent:** Friday, March 24, 2017 9:26 AM  
**To:** Kayla McConnell  
**Subject:** Application for Authorization to Inject - 8105 JV-P Mesa SWD 1W

Karen-

COG has no objections to this amended application to inject.

Sincerely,

**Melissa L. Dimit**  
Land Coordinator  
Delaware Basin - NM

**COG Operating LLC**  
One Concho Center  
600 W. Illinois Ave.  
Midland, TX 79701  
Direct: 432-685-2568  
[mdimit@concho.com](mailto:mdimit@concho.com)



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BTA Oil Producers, LLC  
Application for Authorization to Inject  
Mesa 8105 JV-P SWD #1W  
1800' FNL & 1900' FWL  
Section 11, T26S, R32E  
Lea County, NM

Attachment to C-108

- X Will run Gamma Ray Neutron Log.
- XI No water wells are located in the 1-mile area surrounding the Mesa 8105 JV-P SWD #1W well. Within the 1-mile radius there is an injection well, Pintail 3 Federal SWD #1, operated by COG.
- 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.

  
Britton McQuien

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-1531  
April 9, 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 for its proposed Mesa 8105 SWD JV-P Well No. 1 to be located 1800 feet from the North line and 1900 feet from the West line, Unit letter F of Section 11, Township 26 South, Range 32 East, NMPM, Lea County, New Mexico, for produced water disposal.

**THE DIVISION DIRECTOR FINDS THAT:**

The application has been duly filed under the provisions of Division Rule 19.15.26.8B, NMAC and satisfactory information has been provided that affected parties as defined in said rule have been notified and no objections have been received within the prescribed waiting 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 proposed Mesa 8105 SWD JV-P Well No. 1 (API 30-025-NA) to be located 1800 feet from the North line and 1900 feet from the West line, Unit letter F of Section 11, Township 26 South, Range 32 East, NMPM, Lea County, for disposal of oil field produced water (UIC Class II only) in the Bell Canyon and Cherry Canyon formations of the Delaware Mountain group through perforations from 4850 feet to 7000 feet. Injection shall occur through internally-coated, 3/2-inch or smaller tubing and a packer set within 100 feet of the top 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 well construction proposed and as amended and shown in a well diagram submitted by the applicant on February 26, 2015.

*The operator shall supply the Division with a copy of a mudlog over the permitted disposal interval and also the (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.*

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 970 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. At the discretion of the supervisor of District I, the operator shall install and maintain a tubing/casing pressure chart recorder.

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 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/wvjj

cc: Oil Conservation Division – Hobbs District Office  
Bureau of Land Management – Carlsbad Field Office





C-108 Review Checklist: Received 3-6-2017 Add. Request: 3-28-2017 Reply Date: \_\_\_\_\_ Suspended: \_\_\_\_\_ [Ver 15]

ORDER TYPE: WFX / PMX / SWD Number: 1531-18 Order Date: \_\_\_\_\_ Legacy Permits/Orders: \_\_\_\_\_

Well No. 1 Well Name(s): Mesa 8105 JU-P SAND

API: 30-0 25-42841 Spud Date: TBD New or Old: N (UIC Class II Primacy 03/07/1982)

Footages 1800FNL  
1900FNL Lot \_\_\_\_\_ or Unit F Sec 4 Tsp 26S Rge 32E County LEC

General Location: 230mi. E S 41 JAL Pool: \_\_\_\_\_ Pool No.: \_\_\_\_\_

BLM 100K Map: JAL Operator: BTAPII PRODUCTIONS, LLC OGRID: 260297 Contact: KAYLA McCONNELL

COMPLIANCE RULE 5.9: Total Wells: 161 Inactive: 3 Fincl Assur: OK Compl. Order: N/A IS 5.9 OK? X Date: 3-28-2017

WELL FILE REVIEWED ☐ Current Status: Proposed

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

Planned Rehab Work to Well: C-B-L Liner

Well Construction Details		Sizes (in) Borehole / Pipe	Setting Depths (ft)	Cement St or Cf	Cement Top and Determination Method
Planned ___ or Existing ___ Surface	<u>17 1/2 / 13 3/8</u>	<u>790</u>	Stage Tool	<u>635</u>	<u>Surface / VISUAL</u>
Planned ___ or Existing ___ Interm/Prod	<u>12 1/4 / 9 5/8</u>	<u>1200</u>	<u>4575</u>	<u>1830</u>	<u>Surface / VISUAL</u>
Planned ___ or Existing ___ Interm/Prod					
Planned ___ or Existing ___ Prod/Liner	<u>8 3/4 / 7</u>	<u>17450</u>		<u>850</u>	<u>11950 / C-B-L</u>
Planned ___ or Existing ___ Liner					
Planned ___ or Existing ___ OH / PERF			Inj Length		

Injection Lithostratigraphic Units:	Depths (ft)	Injection or Confining Units	Tops	Completion/Operation Details:
Adjacent Unit: Litho. Struc. Por.		<u>MS</u>	<u>17052</u>	Drilled TD <u>19000</u> PBDT _____
Confining Unit: Litho. Struc. Por.		<u>MS</u>	<u>17350</u>	NEW TD _____ NEW PBDT _____
Proposed Inj Interval TOP:				NEW Open Hole <input checked="" type="radio"/> or NEW Perfs <input type="radio"/>
Proposed Inj Interval BOTTOM:				Tubing Size _____ in. Inter Coated? _____
Confining Unit: Litho. Struc. Por.				Proposed Packer Depth _____ ft
Adjacent Unit: Litho. Struc. Por.				Min. Packer Depth _____ (100-ft limit)
				Proposed Max. Surface Press. _____ psi
				Admin. Inj. Press. _____ (0.2 psi per ft)

#### AOR: Hydrologic and Geologic Information

POTASH: R-111-P N/A Noticed? \_\_\_\_\_ BLM Sec Ord ☐ WIPP ☐ Noticed? \_\_\_\_\_ Salt/Salado T: 120 B: 4370 NW: Cliff House fm \_\_\_\_\_

FRESH WATER: Aquifer N/A Max Depth \_\_\_\_\_ 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) Wolfcamp? Bone Springs? Analysis? Y On Lease ☐ Operator Only ☐ or Commercial ☒

Disposal Int: Inject Rate (Avg/Max BWPD): 30K/160K Protectable Waters? MS Source: \_\_\_\_\_ System Closed or Open

HC Potential: Producing Interval? N/A Formerly Producing? \_\_\_\_\_ Method: Logs/DST/P&A/Other regional 2-Mile Radius Pool Map ☐

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

Penetrating Wells: No. Active Wells 0 Num Repairs? \_\_\_\_\_ on which well(s)? \_\_\_\_\_ Diagrams? \_\_\_\_\_

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

NOTICE: Newspaper Date 2-8-2017 Mineral Owner BLM Surface Owner BLM N. Date 3/6/2017

RULE 26.7(A): Identified Tracts? Y Affected Persons: CUB, WTB-EXPL, KUISEN, FRANKS N. Date 3/7/2017

Order Conditions: Issues: (See tubing) & C-B-L

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

\* 5 1/2" tubing to ~ 11900; 4 1/2" ~ 11900 - 17450  
\* Amend 5210 1531 to 90F from SAND; Bell-cherry-



State of New Mexico  
Energy, Minerals and Natural Resources Department

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**Susana Martínez**  
Governor

**Ken McQueen**  
Cabinet Secretary

**Matthias Sayer**  
Deputy Cabinet Secretary

**David R. Catanach, Division Director**  
Oil Conservation Division



Administrative Order SWD-1531-A  
March 29, 2017

**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 for its proposed Mesa SWD 8105 JV-P Well No. 1 located 1800 feet from the North line and 1900 feet from the West line, Unit F of Section 11, Township 26 South, Range 32 East, NMPM, Lea County, New Mexico, for the commercial disposal of produced water.

This Order supersedes and replaces Administrative Order SWD-1531, issued on April 9, 2015, which permitted injection in the Bell Canyon and Cherry Canyon formations from 4850 feet to 7000 feet. The amended Administrative Order changes the injection interval into the Devonian and Silurian formations from 17450 feet to 19000 feet. Lastly, this amended order increases the approved injection pressure to **3490 psi**.

**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 Mesa SWD 8105 JV-P Well No. 1 (API 30-025-42841) located 1800 feet from the North line and 1900 feet from the West line, Unit F of Section 11, Township 26 South, Range 32 East, NMPM, Lea County, for commercial disposal of oil field produced water (UIC Class II only) in Devonian and Silurian formations, through open-hole interval from **17450 feet to 19000 feet**.

Injection will occur through internally-coated, 4½-inch or smaller tubing inside the 7-inch liner, and a packer set within 100 feet of the uppermost perforation. The operator will be authorized to place a 5-1/2-inch or smaller tubing inside the surface and intermediate casings.

*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.*

*This permit does not permit disposal into the Ellenburger formation (lower Ordovician) or lost circulation intervals directly on top and obviously connected to this formation.*

*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 office and the operator shall be required to receive written permission prior to commencing disposal.*

*The operator shall circulate all surface and intermediate casings to the surface.*

*The operator shall run a CBL (or equivalent) across the 7-inch liner from approximately 17450 feet to 11000 feet to demonstrate a good cement across the 7-inch liner, and good bond between the liner and the 9-5/8-inch casing.*

*Within one year after commencing disposal, the operator shall submit to the Division copies of an injection survey run on this well consisting of a temperature log, or equivalent, run under representative disposal rates.*

**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.

*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 3490 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 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.

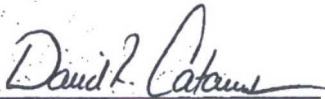
Compliance with this Order does not relieve the operator of the obligation to comply with other applicable federal, state or local laws or rules, or to exercise due care for the protection of fresh water, public health and safety and the environment.

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.



Administrative Order SWD-1531-A  
BTA Oil Producers, LLC  
March 29, 2017  
Page 4 of 4

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**DAVID R. CATANACH**  
**Director**

DRC/mam

cc: Oil Conservation Division – Hobbs District Office  
Bureau of Land Management – Carlsbad  
Well File - 30-025-42841

## APPLICATION FOR DRILLING

BTA OIL PRODUCERS, LLC  
Mesa SWD 8105 JV-P #1  
1800' FNL & 1900' FWL  
UL -F-, Sec. 11, T26S, R32E Surface  
Lea County, New Mexico

In conjunction with Form 3160-3, Application for Permit to Drill, BTA Oil Producers submits the following 10 items for pertinent information in accordance with BLM requirements:

1. Geologic surface formation is Quaternary.
2. Top of geologic markers & depths of anticipated fresh water, oil or gas:

Anhydrite	690'	
Top of Salt	1,270'	
Base of Salt	4,370'	
Delaware	4,595'	
Bell Canyon	4,620'	
Cherry Canyon	5,835'	
Brushy Canyon	7,085'	Oil

No other formations are expected to yield oil, gas, or fresh water in measurable volumes. Depth to fresh water, in this area, is 175'. The surface fresh water sands will be protected by setting 13-3/8" csg at 790' cemented back to surface.

All shows of fresh water and minerals will be reported and protected. A sample will be taken of any water flows and furnished to the BLM, Division of Minerals. All oil and gas shows will be adequately tested for commercial possibilities, reported and protected.

3. Proposed Casing and Cementing Program:

Hole Size	OD Casing	Setting From	Depth to	Weight	Grade	Joint
17-1/2"	13-3/8"	0'	790'	54.5#	J55	STC
12-1/4"	9-5/8"	0'	12,000'	53.5#	P-110	LTC
8-1/2"	7" Liner	11,950'	17,450'	32#	P-110	LTC
6"	Open Hole	17,450'	19,000'	N/A	N/A	N/A

Minimum Casing Design Factors:

Collapse	1.125
Burst	1.0
Tensile	1.8



Depending upon availability at the time that the casing is run, equivalent weights and grades may be substituted. All casing will be new. Casing will be kept a minimum 1/3 full at all times.

#### 4. Cement Program:

##### I. Surface Casing:

- Lead: 435 sx Class C.
  - Yield 1.75 ft<sup>3</sup>/sk
  - Weight: 13.5 ppg
- Tail: 200 sx Class – C
  - Yield 1.34 ft<sup>3</sup>/sk
  - Weight: 14.8 ppg
- Cement circulated to surface. 100% Excess.

##### II. 9 5/8" Casing:

###### Stage 1 -

- Lead: 200 sx Class H
  - Yield 1.18 ft<sup>3</sup>/sk
  - Weight: 15.6 PPG
- Tail: 630 sx Class H.
  - Yield 4.42 ft<sup>3</sup>/sk
  - Weight: 10.5 ppg

###### Stage 2 - DV Tool @ 4575'

- Tail: 1000 sx Class C
  - Yield 1.94 ft<sup>3</sup>/sk
  - Weight: 12.7 PPG
- Cement circulated to surface. 33% excess in open hole.

##### III. 7" Liner:

- Tail: 600 sx Class H
  - 1.48 ft<sup>3</sup>/sk; 16 ppg
- Cement calculated to tie back 250 ft. into 9 5/8" casing. 33% open hole excess.

Note: All casing strings will be pressure tested to 0.22 psi/ft. of setting depth or 1500 psi (whichever is greater) after cementing and prior to drillout.

#### 5. Pressure Control Equipment:

The 13 5/8" blowout preventer equipment (BOP) shown in Exhibit A will consist of a (10M system) double ram type (10000 psi WP) preventor and a bag-type (Hydril) preventor (10000 psi WP). Will be hydraulically operated and the ram type preventor will be equipped with blind rams on top and 4-1/2" drill pipe rams on bottom. The BOP's will be installed on

the 13-3/8" casing and utilized continuously until TD is reached. All BOP's and associated equipment will be tested as per BLM drilling Operations Order No. 2.

Pipe rams will be operated and checked each 24-hour period and each time the drill pipe is out of the hole. These functional tests will be documented on the daily driller's log. A 2" kill line and 3" choke line will be incorporated in the drilling spool below the ram-type BOP. Other accessory BOP equipment will include a Kelly cock, floor safety valve, choke lines, and choke manifold having a 10000 psi WP rating.

6. Mud Program:

Surface to 790': 8.5 to 8.8 ppg fresh water spud with 35 to 45 sec/1000 cc viscosity.

790' to 12000': Oil-Based Mud 9.1# - 9.3#

12000' to 17450': Fresh Water Mud 12.2# - 13.1#

17450' to 19000': Fresh Water Mud 8.3#

Will use paper for seepage losses. Will adjust fluid weight as required using brine water. Visual mud monitoring equipment will be used at all times.

7. Auxiliary Equipment:

- a) Upper Kelly cock valve with handle available.
- b) Lower Kelly cock valve with handle available.
- c) Safety valves and subs to fit all drill string connections in use.
- d) Monitoring of mud system will be mechanical.

8. Testing Logging and Coring Program:

Drill Stem Tests – none planned

Open hole electrical logging program will be:

- i. TD to Surface: Gamma Ray/Compensated Neutron
- ii. No coring program is planned.

9. Potential Hazards:

No abnormal pressures or temperatures are anticipated. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP: 8,300 psi. Estimated BHT: 180° F. No H<sub>2</sub>S is anticipated to be encountered (H<sub>2</sub>S monitoring equipment will be operational prior to penetrating the Delaware).

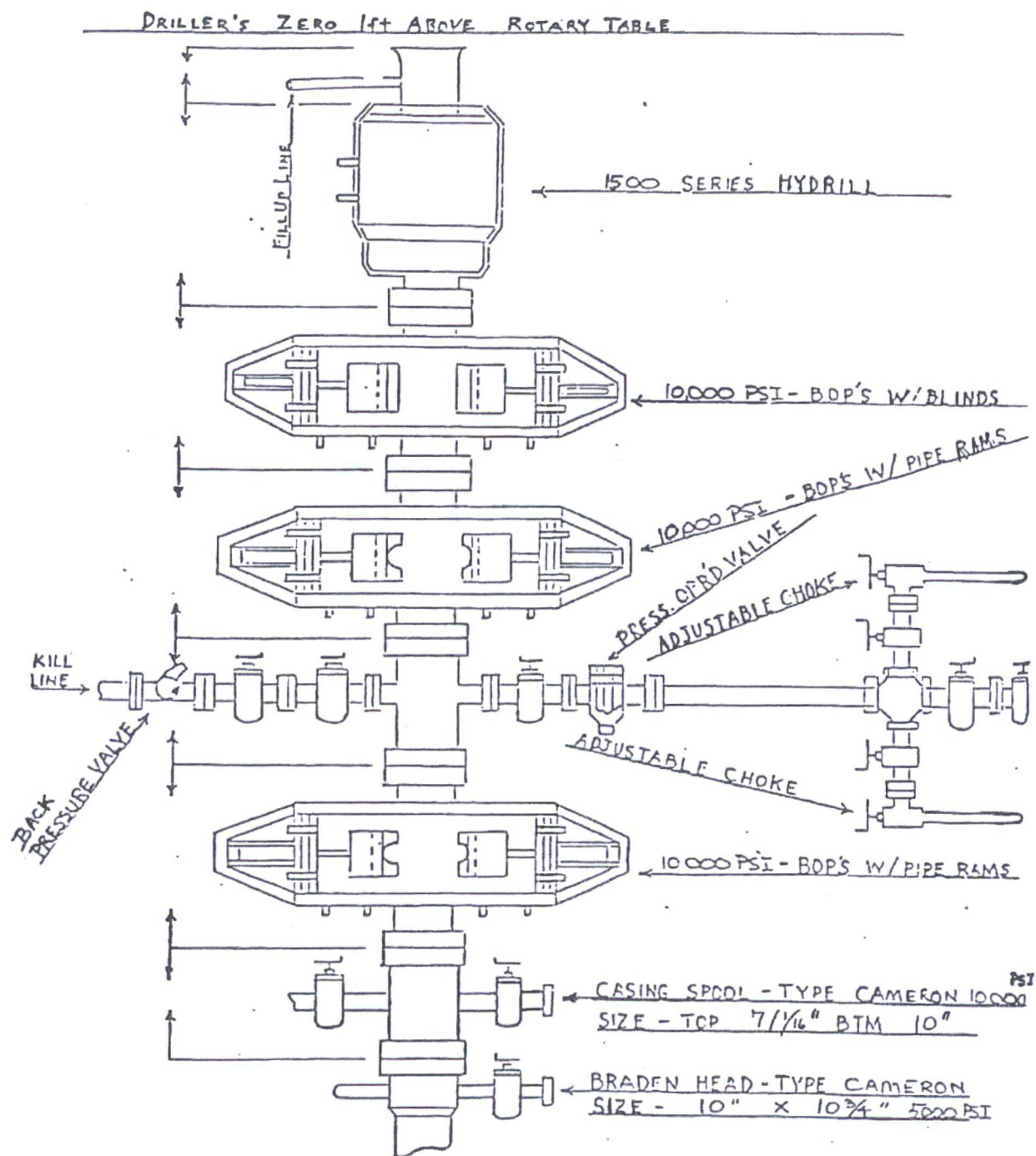


Drilling Plan

Mesa SWD 8105 JV-P #1W

10. Anticipated Starting Date and Duration of Operations:

Anticipated start date will be as soon as possible after BLM approval and as soon as a rig is available. Move in operations and drilling is expected to take 20 days.

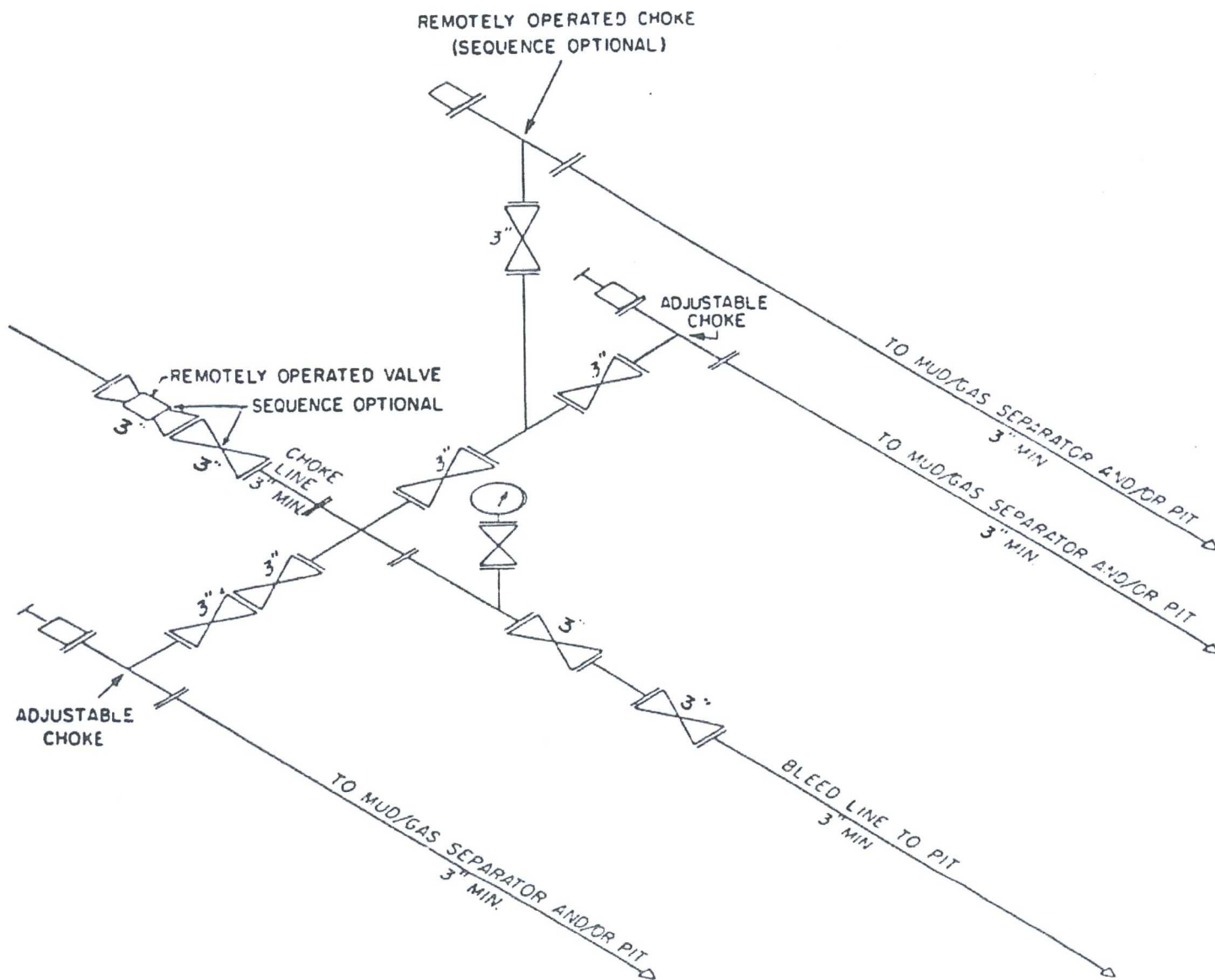


BTA Oil Producers, LLC

Mesa SWD 8105 JV-P #1W

10M BOP

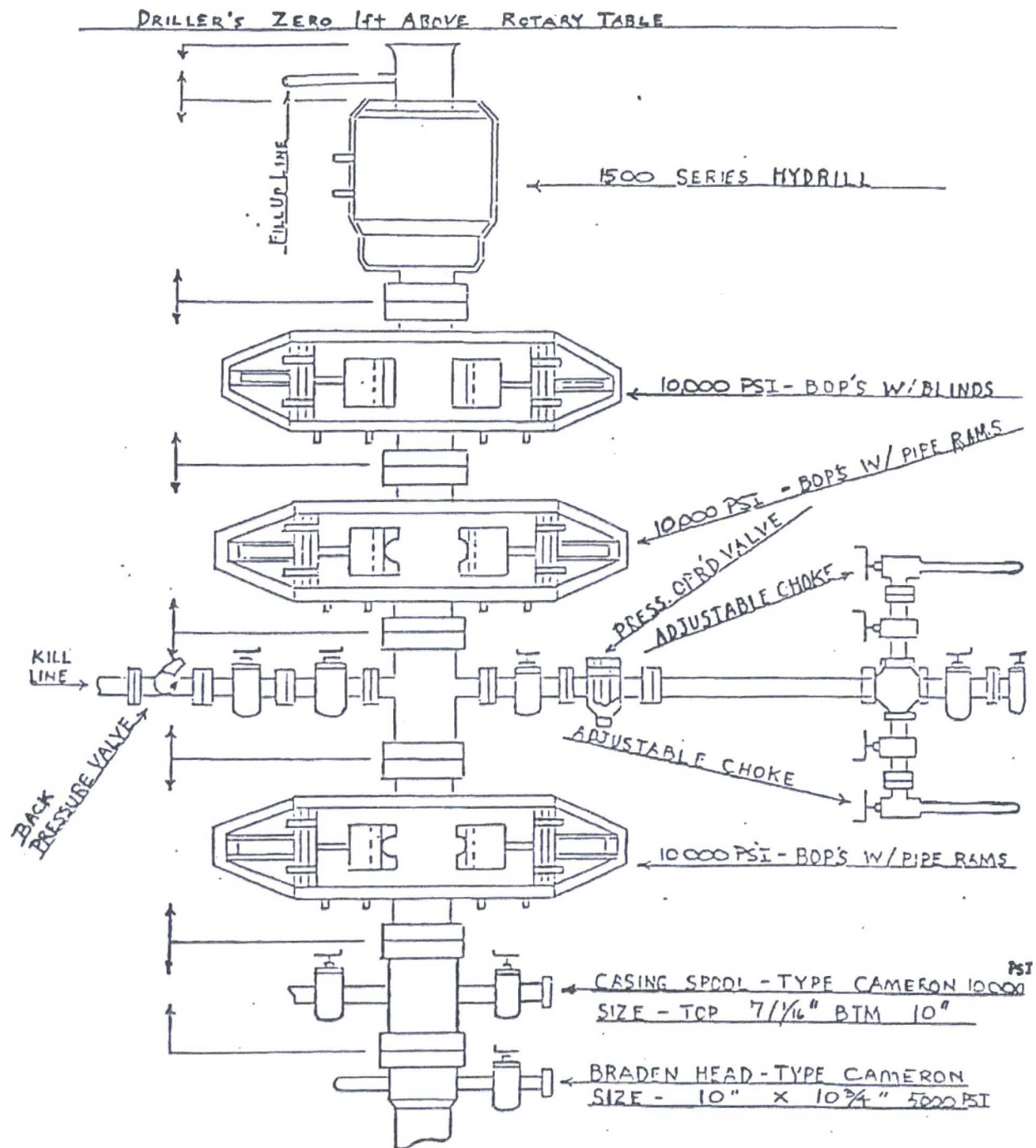




10M CHOKE MANIFOLD EQUIPMENT — CONFIGURATION MAY VARY

BTA Oil Producers, LLC

Mesa SWD 8105 JV-P #1W

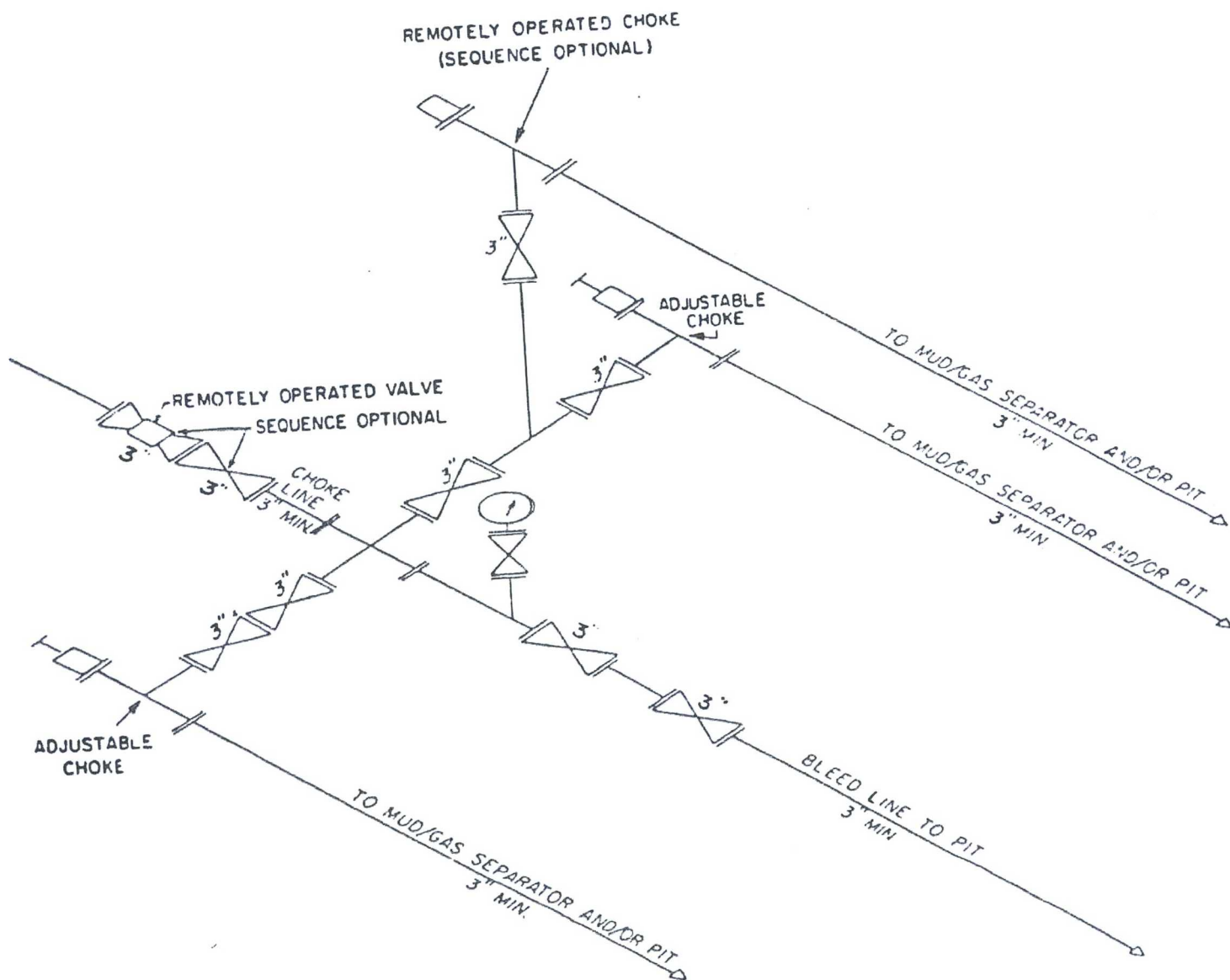


BTA Oil Producers, LLC

Mesa SWD 8105 JV-P #1W

10M BOP





10M CHOKE MANIFOLD EQUIPMENT — CONFIGURATION MAY VARY

BTA Oil Producers, LLC  
Mesa SWD 8105 JV-P #1W

## PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	BTA Oil Producers, LLC
LEASE NO.:	NMNM-14492
WELL NAME & NO.:	Mesa SWD 8105 JV-P 1W
SURFACE HOLE FOOTAGE:	1800' FNL & 1900' FWL
LOCATION:	Section 11, T. 26 S., R 32 E., NMPM
COUNTY:	Lea County, New Mexico

All previous COAs still apply except the following:

### A. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

#### Wait on cement (WOC) for Water Basin:

After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

#### Medium Cave/Karst

Possible water flows in the Salado and Castile.

Possible lost circulation in the Red Beds, Rustler, and Delaware.

Abnormal pressures may be encountered when penetrating the 3<sup>rd</sup> Bone Spring Sandstone and all subsequent formations.

1. The 13-3/8 inch surface casing shall be set at approximately 790 feet (in a competent bed below the Magenta Dolomite, which is a Member of the Rustler, and if salt is encountered, set casing at least 25 feet above the salt) and cemented to the surface.



- a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
- b. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.**
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

**Formation below the 13-3/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office**

2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:

**Operator has proposed DV tool at depth of 4575', but will adjust cement proportionately if moved. DV tool shall be set a minimum of 50' below previous shoe and a minimum of 200' above current shoe. Operator shall submit sundry if DV tool depth cannot be set in this range. If an ECP is used, it is to be set a minimum of 50' below the shoe to provide cement across the shoe. If it cannot be set below the shoe, a CBL shall be run to verify cement coverage.**

- a. First stage to DV tool:
  - ☒ Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve circulation or approved top of cement on the next stage.
- b. Second stage above DV tool:
  - ☒ Cement to surface. If cement does not circulate see A.1.a, c-d above. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.**

**Contingency: If the cement on the 9 5/8" inch intermediate casing doesn't circulate to surface, the 7" inch production casing needs to come to surface and cemented.**

**Formation below the 9-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure**

of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office

3. The minimum required fill of cement behind the 7 inch production liner is:

- ☒ Cement should tie-back at least **100** feet into previous casing string. Operator shall provide method of verification.

**6" hole will be drilled from 17,450'-19,000' and will be open hole completion.**

4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

## **B. PRESSURE CONTROL**

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.

2. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M) psi. 5M/10M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.**

4. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.

a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

b. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer.**

c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2



hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.

- d. The results of the test shall be reported to the appropriate BLM office.
- e. All tests are required to be recorded on a calibrated test chart. **A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.**
- f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- g. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the **Wolfcamp** formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

#### **C. DRILLING MUD**

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the **Wolfcamp** formation, and shall be used until production casing is run and cemented.

**MHH 05012017**