

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Engineering Bureau - WFX-878
 1220 South St. Francis Drive, Santa Fe, NM 87505



Chesapeake
 147179
 Trinitis Burrus ABOL #26

ADMINISTRATIVE APPLICATION CHECKLIST 30-025-35985

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]**

lea

- [1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]
- [A] Location - Spacing Unit - Simultaneous Dedication
 NSL NSP SD
- Check One Only for [B] or [C]
- [B] Commingling - Storage - Measurement
 DHC CTB PLC PC OLS OLM
- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
 WFX PMX SWD IPI EOR PPR
- [D] Other: Specify _____
- [2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or Does Not Apply
- [A] Working, Royalty or Overriding Royalty Interest Owners
- [B] Offset Operators, Leaseholders or Surface Owner
- [C] Application is One Which Requires Published Legal Notice
- [D] Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] Waivers are Attached

RECEIVED OGD
 NOV 15 A 11:20

R-10496
9036' - 94'
x 2
1800' PS T

[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.

Christian Combs _____ Manager-Regulatory, S. Division 11/15/10
 Print or Type Name Signature Title Date

For API# 30-025-35985 _____
 e-mail Address Christian.Combs@chk.com



Regulatory Department

VIA UPS

November 12, 2010

Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: Trinity Burrus Abo Unit # 26
API# 30-025-35985
330' FNL & 2000' FEL
Unit Letter B, Section 27, T-12-S R-38-E
Lea Co., NM

Mr. Will Jones or To Whom It May Concern:

Enclosed for your review is NMOCD's form C-108 and attachments to convert the referenced well to injection. This application is made pursuant to Division Rule 19.15.26.8 (C) for administrative approval for injection purposes. Chesapeake proposes to re-enter the above captioned well and convert to injection in the lower Abo formation. Publication of the application of Chesapeake's intent to utilize the subject well for injection has been made to the Hobbs News Sun, and notice of application has been provided as required per NMOCD's Rule 19.15.26.8 (B) (2) within one-half mile of the well location.

Respectfully Yours,

Bryan Arrant
Chesapeake Operating, Inc.
Senior Regulatory Compliance Specialist

Enclosures (s): NMOCD's C-108 application
CC: NMOCD's District I Office, Hobbs, NM

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE : Secondary Recovery Pressure Maintenance Disposal Storage
Application qualifies for administrative approval? Yes No

II. OPERATOR: Chesapeake Operating, Inc.

ADDRESS : P.O. Box 18496 Oklahoma City, OK 73154-0496

CONTACT PARTY : Bryan Arrant PHONE : (405)935-3782

III. WELL DATA: Complete the data required on the reverse side of this form for each well processed for injection.
Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project? Yes No
If yes, give the Division order number authorizing the project R-12496 (For this application: API# 30-025-35985)

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 geological data on the injection zone including appropriate lithologic detail, geological 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.)

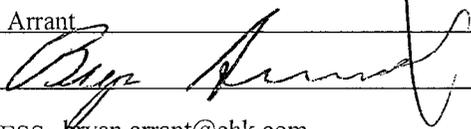
*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

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 source 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: Bryan Arrant TITLE: Senor Regulatory Compl. Sp.

SIGNATURE:  DATE: 11/08/2010

E-MAIL ADDRESS: bryan.arrant@chk.com

* If the information required under Sections VI, VHI, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstance of the earlier submittal: _____

III. WELL DATA

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

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

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

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

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and 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, NM 87505 within 15 days.

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

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

INJECTION WELL DATA SHEET

OPERATOR: Chesapeake Operating, Inc.

WELL NAME & NUMBER: 330' FNL & 2000' FEL (API# 30-025-35985)

WELL LOCATION: 330' FNL & 2000' FEL

B 27 12 South 38 East
UNIT LETTER SECTION TOWNSHIP RANGE

FOOTAGE LOCATION

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing

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

Cemented with: 441 sxs or _____ ft³

Top of Cement: 0' Method Determined: Circulated

Intermediate Casing

Hole Size: 11" Casing Size: 8 5/8"

Cemented with: 273 sxs or _____ ft³

Top of Cement: 0' Method Determined: Circulated

Production Casing

Hole Size: 7 7/8" Casing Size: 5 1/2"

Cemented with: 860 sxs or _____ ft³

Top of Cement: 3920' Method Determined: CBL

Total Depth: 9260'

Injection Interval

9036' feet to 9094' (Peforated)

(Peforated or Open Hole; indicated which)

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8" Lining Material: Plastic

Type of Packer: Baker Lock Set Injection Packer

Packer Setting Depth: 8986'

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

Additional Data

1. Is This a new well drilled for injection? _____ Yes X No

If no, for what purpose was the well originally drilled? Oil & gas well completion

2. Name of the Injected Formation: Lower Abo

3. Name of Field or Pool (if applicable): Trinity; Wolfcamp

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 injected zone in this area: None

**Application for Authorization to Inject
Chesapeake Operating, Inc.
Lea County, New Mexico**

Trinity Burrus Abo Unit # 26
API # 30-025-35985
330' FNL & 2000' FEL
Unit Letter B, Section 27, T-12-S, R-38-E ✓
Lea Co., NM

Chesapeake Operating, Inc. proposes to re-enter the above captioned well in order to convert to injection.

This is an expansion of an existing project, Division Order: R-12496, (A). Please find the following application for authorization to inject (NMOCD's form C-108) along with attachments and item information:

REQUIREMENTS PER NMOCD's C-108 APPLICATION

Item I

The purpose of this application is for secondary recovery.

Item II

Chesapeake Operating, Inc. (OGRID # 147179) ✓
P.O. Box 18496
Oklahoma City, OK 73154-0496
Bryan Arrant, Phone: (405) 935-3782

Item III

See Data Sheets attached.

Item IV

This is an expansion of an existing project and is covered under Division Order: R-12496, (A). ✓

Item V

See attached map showing all wells within ½ mile and 2 mile radius.

Item VI

Within the area of review (AOR) which penetrates each proposed disposal zone, there are no plugged wells within a ½ mile radius.

Item VII

1. Daily average injection rate is expected to be 300 BWPD. Maximum daily injection rate will be approximately 1000 BWPD.
2. The system will be closed.
3. The proposed average injection pressure is expected to be 1800 psig and the maximum pressure is expected to be 1800 psig.
4. The source of water to be injected is produced water from the unit area, and Devonian. A water analysis is attached. Item VII (5).
5. Injection is not for disposal.

Item VIII

The Trinity; Wolfcamp oil pool is located in southeastern Lea County, New Mexico. The Abo/Wolfcamp lithology in the proposed injection zone is composed of dolostones which are light brown to opaque in color, sucrosic in texture, and very fine to finely crystalline grained. Show samples have light brown staining with a light yellow green fluorescence.

The geological tops of the Abo & Wolfcamp formations are indicated below. The base of the Wolfcamp in this area occurs at a depth of @ 9718' (bgs). Fresh water in this area is from the Ogallala formation. Depth of fresh ground water ranges from near surface (18') to a maximum depth at around 120'. (Please find attached information).

Trinity Burrus Abo Unit # 26

Top of Abo: 7838'

Top of Wolfcamp: 9210'

Base of Wolfcamp: NDE

Item IX

Acidize injection interval with 5000 gals 15% HCl acid.

The procedure to convert this well to injection is attached.

Item X

The electric logs are available on the Oil Conservation Division's web site.

Item XI

A water analysis from a fresh water well is available within one mile of the proposed Trinity Burrus Abo Unit # 26 injection well and is attached.

Item XII

This application is not for a salt water disposal and is for injection into the Abo dolomite formation. There is no evidence of open faults or any other hydrological connection between the disposal zone and any underground sources of drinking water.

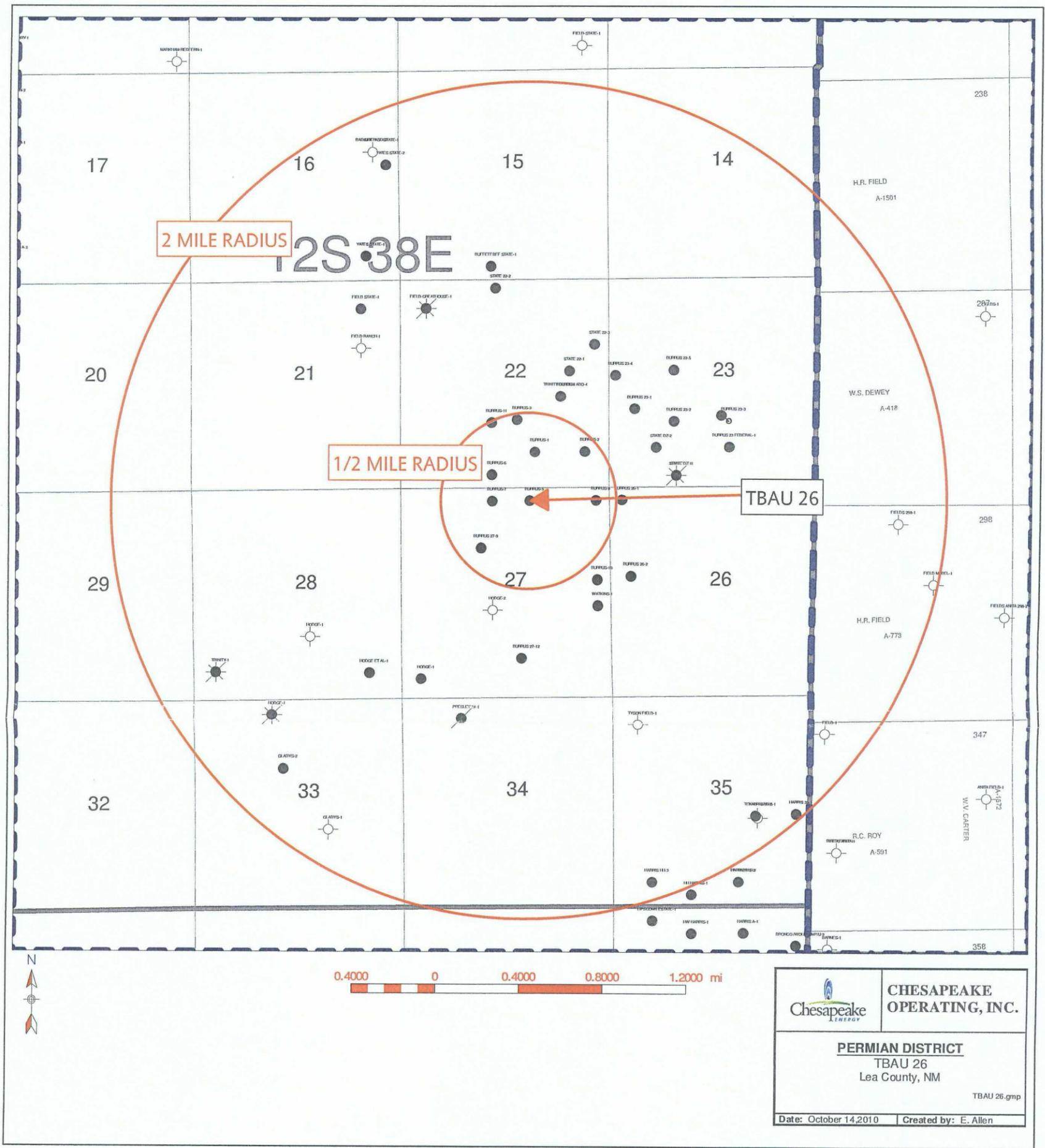
Item XIII

Proof of Notice

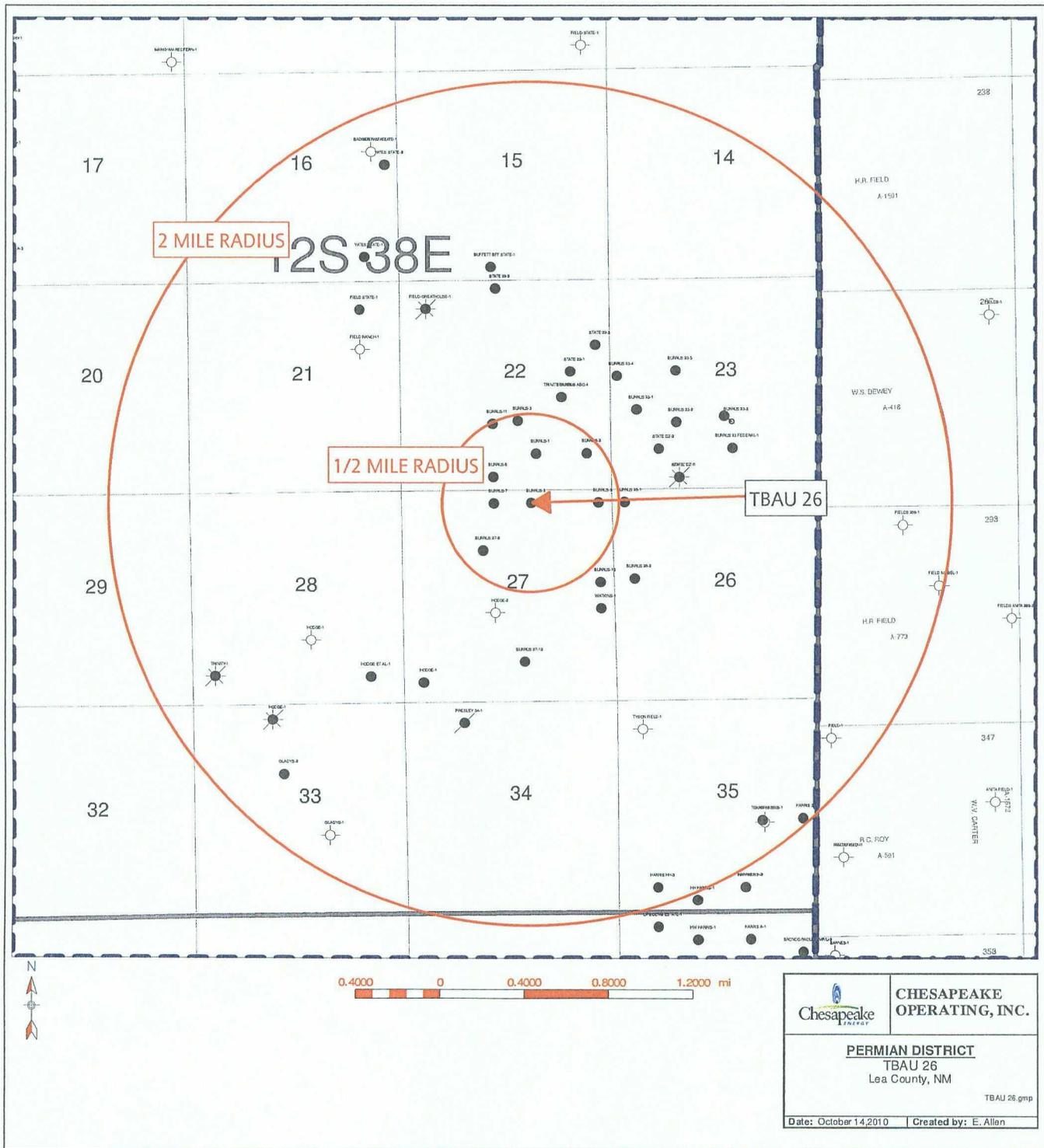
1. A copy of the application has been furnished by certified mail. A list is provided.
2. A copy of the legal advertisement in the county in which the well is located is attached.

Additional Information:

- Procedure to convert to injector.
- Actual & proposed well bore diagram.
- Geological formation tops.
- New Mexico Office of the State Engineer's list of water wells in the general area.



Trinity Burrus Abo Unit # 26
API # 30-025-35985



	CHESAPEAKE OPERATING, INC.
	<u>PERMIAN DISTRICT</u> TBAU 26 Lea County, NM TBAU 26.gmp
Date: October 14, 2010 Created by: E. Allen	

Trinity Burrus Abo Unit # 26
API # 30-025-35985

Item V



Catalyst Oilfield Services
 11999 E Hwy 158
 Gardendale, TX 79758
 (432) 563-0727
 Fax: (432) 224-1038

Water Analysis Report

Customer: Chesapeake Operating Sample #: 16145
 Area: New Mexico - Bronco Analysis ID #: 2799
 Lease: Trinity Burris Unit
 Location: Water Injection Plant SE/4SW4 of Sec. 22, T-12-S R-38-E
 Sample Point: IPD

Produced waters from Trinity Burrus Abo Unit area
 & Devonian water

Sampling Date:	11/24/2009	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	12/1/2009	Chloride:	35539.1	1002.43	Sodium:	19867.6	864.19
Analyst:	Mitchell	Bicarbonate:	439.9	7.21	Magnesium:	395.3	32.52
TDS (mg/l or g/m3):	60489.5	Carbonate:			Calcium:	2846.2	142.02
Density (g/cm3):	1.042	Sulfate:	1400.0	29.15	Strontium:		
Hydrogen Sulfide:	25.00				Barium:		
Carbon Dioxide:					Iron:	1.1	0.04
Comments:		pH at time of sampling:		6.06	Manganese:	0.290	0.01
		pH at time of analysis:					
		pH used in Calculation:		6.06	Conductivity (micro-ohms/cm):		99000
		Temperature @ lab conditions (F):		70	Resistivity (ohm meter):		1010

Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl

Temp °F	Calcite CaCO ₃		Gypsum CaSO ₄ ·2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄	
	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount
80	-0.17	0.00	-0.22	0.00	-0.27	0.00	0.00	0.00	0.00	0.00
100	-0.06	0.00	-0.26	0.00	-0.24	0.00	0.00	0.00	0.00	0.00
120	0.06	5.94	-0.28	0.00	-0.18	0.00	0.00	0.00	0.00	0.00
140	0.18	18.16	-0.30	0.00	-0.10	0.00	0.00	0.00	0.00	0.00
160	0.31	30.04	-0.31	0.00	-0.01	0.00	0.00	0.00	0.00	0.00
180	0.44	41.60	-0.31	0.00	0.10	127.77	0.00	0.00	0.00	0.00
200	0.58	52.50	-0.30	0.00	0.23	249.93	0.00	0.00	0.00	0.00
220	0.72	62.40	-0.30	0.00	0.36	352.61	0.00	0.00	0.00	0.00

Item VII(5)



Catalyst Oilfield Services
 11999 E Hwy 158
 Gardendale, TX 79758
 (432) 563-0727
 Fax: (432) 224-1038

Water Analysis Report

Customer: Chesapeake Operating Sample #: 16144
 Area: New Mexico - Bronco Analysis ID #: 2798
 Lease: Trinity Burris Unit
 Location: Fresh Water Ogallala formation
 Sample Point: Other SE/4SE/4 of Sec. 22, T-12-S R 38-E

Sampling Date:	11/24/2009	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	12/1/2009	Chloride:	65.1	1.84	Sodium:	40.1	1.74
Analyst:	Mitchell	Bicarbonate:	220.0	3.6	Magnesium:	18.5	1.52
TDS (mg/l or g/m3):	507.8	Carbonate:			Calcium:	79.0	3.94
Density (g/cm3):	1	Sulfate:	85.0	1.77	Strontium:		
Hydrogen Sulfide:	.00				Barium:		
Carbon Dioxide:					Iron:	0.1	0.
Comments:		pH at time of sampling:		6.85	Manganese:	0.020	0.
		pH at time of analysis:					
		pH used in Calculation:		6.85	Conductivity (micro-ohms/cm):		884
		Temperature @ lab conditions (F):		70	Resistivity (ohm meter):		11.3122

Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl

Temp	Calcite CaCO ₃		Gypsum CaSO ₄ ·2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄	
	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount
80	-0.42	0.00	-1.64	0.00	-1.71	0.00	0.00	0.00	0.00	0.00
100	-0.28	0.00	-1.63	0.00	-1.64	0.00	0.00	0.00	0.00	0.00
120	-0.13	0.00	-1.62	0.00	-1.54	0.00	0.00	0.00	0.00	0.00
140	0.03	1.05	-1.59	0.00	-1.43	0.00	0.00	0.00	0.00	0.00
160	0.20	6.66	-1.56	0.00	-1.29	0.00	0.00	0.00	0.00	0.00
180	0.37	12.61	-1.53	0.00	-1.14	0.00	0.00	0.00	0.00	0.00
200	0.56	18.22	-1.49	0.00	-0.98	0.00	0.00	0.00	0.00	0.00
220	0.75	23.82	-1.44	0.00	-0.81	0.00	0.00	0.00	0.00	0.00

Item XI

**07 Ranch Land & Minerals Limited Partnerships
P. O. Box 1090
Plains, TX 79355**

**State of New Mexico of Commissioner of Public Lands
310 Old Santa Fe Trail
Santa Fe, NM 87504-1148**

**Yates Petroleum Corporation
105 South 4th Street
Artesia, NM 88210**

C-108 Application has also been submitted to:

**New Mexico Oil Conservation Division
District I office
1625 N. French Drive
Hobbs, NM 88240**

**Item XIII (1)
Proof of Notice**

LEGAL NOTICE

Chesapeake Operating, Inc. intends to convert the following well to water injection service: Trinity Burrus Abo Unit # 26, which is located in Unit B of Section 27, Township 12 South, Range 38 East, 330' FNL & 2000' FEL, Lea County, NM. This well is located approximately 13.5 miles east of Tatum, NM. The formation to be injected is into the lower Abo formation through perforations 9036'-9094'. The average disposal rate is expected to be 300 BWPD with a maximum disposal range of 1000 BWPD. The injection pressure is expected to be 1800 psig with a maximum pressure to be 1800 psig. This formation is productive of oil and gas. The proposed injection is for the purpose of increasing the recovery of oil and gas from this formation as this well is part of the Trinity Burrus Abo Unit. Questions or objections can be addressed to Chesapeake Operating, Inc. 6100 N. Western Ave., Oklahoma City, OK 73118 or call Shannon Glancy at: 405-935-8109. Any interested party that have objections or request a hearing must be filed within 15 days of this notice to the Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, NM 87505.

OCT 21 + 15
NOV 5, 2010 ✓

Item XIII (2)

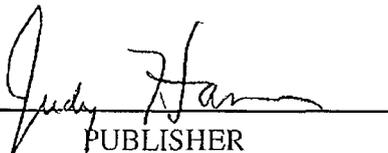
Affidavit of Publication

State of New Mexico,
County of Lea.

I, JUDY HANNA
PUBLISHER

of the Hobbs News-Sun, a
newspaper published at Hobbs, New
Mexico, do 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
October 21, 2010
and ending with the issue dated
October 21, 2010


PUBLISHER

Sworn and subscribed to before me
this 8th day of
November, 2010



Notary Public

My commission expires

February 09, 2013

(Seal)



LEGAL **LEGAL**

LEGAL NOTICE
October 21, 2010

Chesapeake operating, Inc. intends to convert the following well to a water injection service: Trintly Burrus Abo Unit #26, which is located in Unit B of Section 27, Township 12 South, Range 38 East, 330' FNL & 2000' FEL, Lea County, NM. This well is located approximately 13.6 miles east of Tatum, NM. The formation to be injected is into the lower Abo formation through perforations 9036-9034. The average disposal rate is expected to be 300 BWPD with a maximum disposal range of 1000 BWPD. The injection pressure is expected to be 1800 psig with a maximum pressure to be 1800 psig. This formation is productive of oil and gas. The proposed injection is for the purpose of increasing the recovery of oil and gas from the formation as this well is part of the Trintly Burrus Abo Unit. Questions or objections can be addressed to Chesapeake Operating, Inc. 6100 N. Western Ave., Oklahoma City, OK 73118 or call Jeff Finelli at 405-935-4347. Any interested parties that have objections or request a hearing must be filed within 15 days of this notice to the Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, NM 87505

#26159

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
publication has been made.

02108820 00061591
BRYANT ARRANT
CHESAPEAKE-LEGAL NOTICE
P.O. BOX 18496
OKLAHOMA CITY, OK 73154

7010 1060 0000 0256 8077

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS. FOLD AT DOTTED LINE

CERTIFIED MAIL™

7010 1060 0000 0256 8077

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
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Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Postmark Here

Sent To
 Gates Petroleum Corporation
 Street, Apt. No., or PO Box No. 105 South 4th St.
 City, State, ZIP+4 Artesia, Nm 88210

PS Form 3800, August 2005 See Reverse for Instruction

7010 1060 0000 0256 8084

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Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Postmark Here

Sent To
 State of New Mexico Public Lands Office
 Street, Apt. No., or PO Box No. 310 Old Santa Fe Trail
 City, State, ZIP+4 Santa Fe, Nm 87504-1148

PS Form 3800, August 2005 See Reverse for Instruction

7010 1060 0000 0256 8107

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS. FOLD AT DOTTED LINE

CERTIFIED MAIL™

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U.S. Postal Service™
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For delivery information visit our website at www.usps.com

OFFICIAL USE

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

Postmark Here

Sent To
 O7 Ranch Land & Minerals Limited Partnerships
 Street, Apt. No., or PO Box No. P.O. Box 1090
 City, State, ZIP+4 Plains, TX 79355

PS Form 3800, August 2005 See Reverse for Instruction



Regulatory Department

November 8, 2010

VIA CERTIFIED MAIL 7010 1060 0000 0256 8084

State of New Mexico Commissioner of Public Lands
310 Old Santa Fe Trail
Santa Fe, NM 87504-1148

Re: Application to convert to injection
Trinity Burrus Abo Unit # 26
330' FNL & 2000' FEL
Section 27, T-12-S R-38-E
Lea County, New Mexico
API # 30-025-35985

Attention Mr. Pete Martinez or To Whom It May Concern:

Chesapeake Operating, Inc. intends to convert the following well to an injection well: Trinity Burrus Abo Unit # 26 which is located 330' FNL & 2000' FEL of Section 27, Township 12 South Range 38 East, Lea County, New Mexico. The formation to be injected is for disposal purposes into the Lower Abo formation. The daily average injection rate is expected to be 300 BWPD and a maximum injection rate of 1000 BWPD. The proposed average injection pressure is expected to be 1800 psig. The maximum pressure is expected to be 1800 psig. The perforated interval is to be 9036'-9094'. Please find the enclosed: NMOCD's C-108 application. Questions or objections can be addressed to Chesapeake Operating, Inc. 6100 N. Western Ave., Oklahoma City, OK 73118 or call Shannon Glancy at: 405-935-8109. Objections or requests for hearing must be filed within 15 days of this notice to the Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, NM 87505.

Respectfully Yours,

A handwritten signature in black ink, appearing to read "Bryan Arrant".

Bryan Arrant
Senior Regulatory Compliance Specialist

Enclosures: NMOCD's C-108 Application



Regulatory Department

November 8, 2010

VIA CERTIFIED MAIL 7010 1060 0000 0256 8077

Yates Petroleum Corporation
105 South 4th Street
Artesia, NM 88201

Re: Application to convert to injection
Trinity Burrus Abo Unit # 26
330' FNL & 2000' FEL
Section 27, T-12-S R-38-E
Lea County, New Mexico
API # 30-025-35985

Dear Sirs/Madams:

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Respectfully Yours,

Bryan Arrant
Senior Regulatory Compliance Specialist

Enclosures: NMOCD's C-108 Application



Regulatory Department

November 8, 2010

VIA CERTIFIED MAIL 7010 1060 0000 0256 8107

07 Ranch Land & Minerals Limited Partnerships
P.O. Box 1090
Plains, TX 79355

Re: Application to convert to injection
Trinity Burrus Abo Unit # 26
330' FNL & 2000' FEL
Section 27, T-12-S R-38-E
Lea County, New Mexico
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Respectfully Yours,

A handwritten signature in black ink, appearing to read "Bryan Afrant".

Bryan Afrant
Senior Regulatory Compliance Specialist

Enclosures: NMOCD's C-108 Application

Additional Information

- **Procedure to convert to injector.**
- **Actual & proposed well bore diagram.**
- **Geological formation tops.**
- **New Mexico Office of the State Engineers' list of water wells in general area.**

TBAU #26
Sec. 27-T12S-R38E, 330 FNL & 2000 FEL
Lea County, NM
API #3002535985
CHK Prop #890680
AFE #305472
10/05/2010



Convert to Injector

Well Data

Tubing: 2-7/8" 6.5# N-80 @ 9,125'
 Casing: 5.5" 17# N-80 & J-55 @ 9,260'
 TD: 9,260'
 Elevation: 3,815' KB 3,797' GL
 WI / NRI (%): 65.59/ 50.70

Tools: 2-7/8" X 5.5" TAC @ 8,836'

Open Perforations:
 Wolfcamp 9,036' – 94'

Tubular Specifications

SIZE	WEIGHT	GRADE	BURST	COLLAPSE	YIELD	DRIFT (ID/OD)	CAPACITY (FT./GAL)	CAPACITY (FT./BBL)
2-7/8"	6.5#	N-80	10570 psi	11160 psi	145K	2.347" / 3.094"	4.1135	172.76
5.5"	17#	N-80 / J-55	5320 psi	4910 psi	247K	4.767" / 6.050"	1.0242	43.01

Procedure

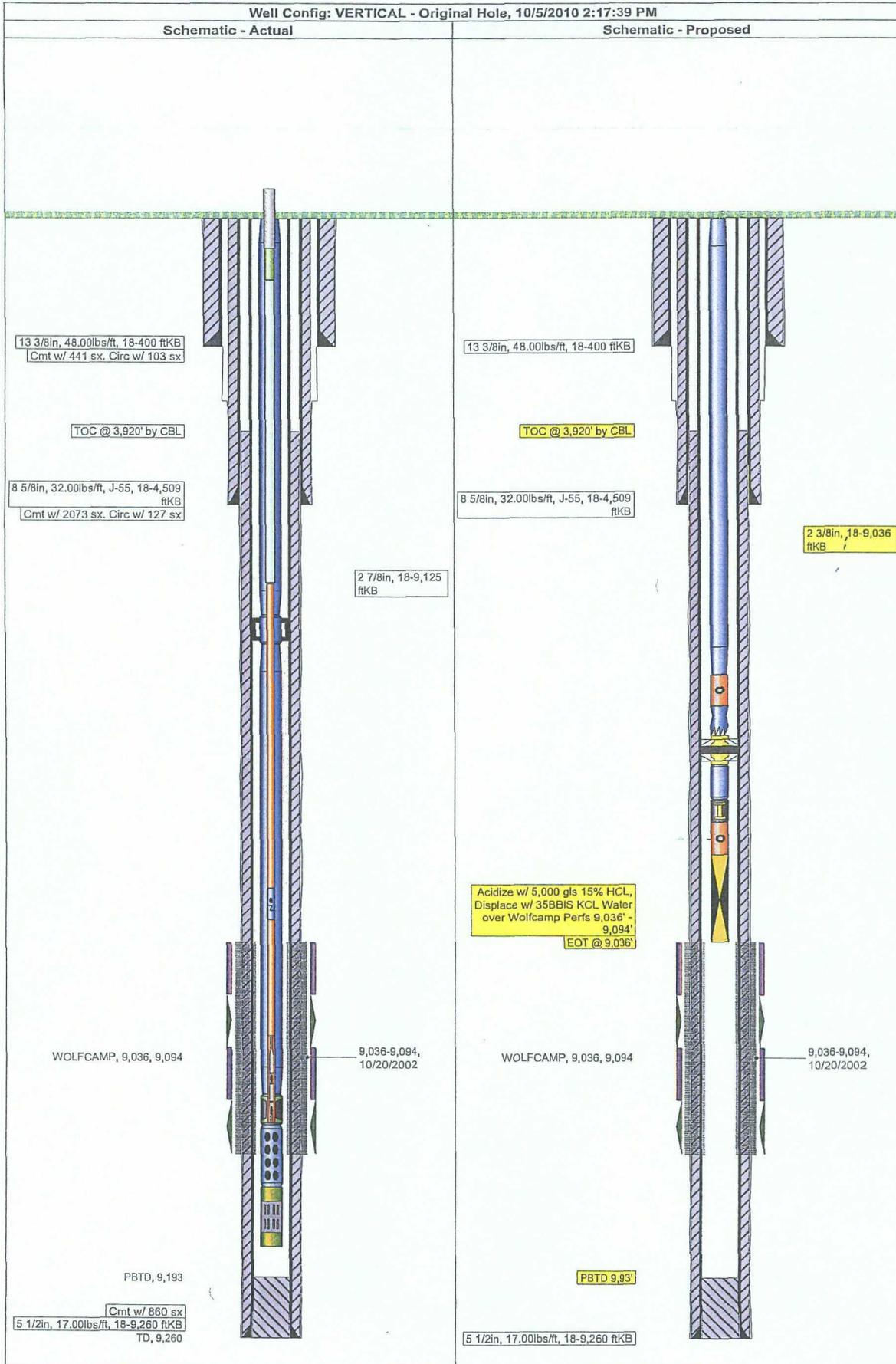
1. Prepare location. Test anchors and clean area for workover.
2. MIRU PU. TOH & LD rod string and pump. ND WH. NU BOP.
3. Release TAC set @ 8,836'. TOH & LD 2-7/8" production tubing. (Run bit & scraper if deemed necessary)
4. RU hydrotesters. PU 2-3/8" pump out plug, 1.43" SS F-nipple w/ 1.385" No-Go, 2-3/8" N-80 IPC sub, 2-3/8" X 5-1/2" lock-set injection packer, on/off tool w/ 1.5" SS F-nipple & 2-3/8" N-80 IPC tbg. TIH while hydrotesting & set injection packer 50' from the top perforation @ 9,036'. RD hydrotesters.
5. Release on/off tool. Load hole w/ packer fluid. (Approx. 200 bbl). Latch on/off tool. Pressure up on casing to ensure integrity for OCD. Pressure up on tubing to pump out plug.
6. RU acid crew. Pump 5000 gal 15% HCL job on Wolfcamp perforations from 9,036' – 94'. Displace acid w/ tubing volume of KCL water (Approx. 35 bbl).
7. ND BOP. NU WH. RDMO PU. Clean location & begin injection.

Contacts

Completions Superintendent: Mark Mabe (432) 556-6067
 Production Foreman: Steve Serna (575) 390-9053
 Production Engineer: Shannon Glancy (405) 935-8109



Proposal Schematic
Trinity Burrus Abo Unit # 26
API # 30-025-35985



**Trinity Burrus Abo Unit # 26
Unit B, Sec. 27, T-12-S R-38-E
Lea Co., NM
API# 30-025-35985**

Geological Formation Tops

• Yates	3080'
• Seven Rivers	3305'
• Queen	3840'
• San Andres	4460'
• Glorieta	5925'
• Tubb	7162'
• Abo	7838'
• Wolfcamp	9120'



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

(In feet)

POD Number	Sub basin	Use	County	Q Q Q			Sec	Tws	Rng	X	Y	Depth Depth Water		
				64	16	4						Well	Water	Column
L 00568 S 16	IRR	LE		4	4	2	23	12S	38E	680696	3682353*	240	120	120
L 01462 APPRO	DOM	LE		3	3	2	33	12S	38E	676937	3679065*	80	32	48
L 02461	PRO	LE		1	1	35		12S	38E	679446	3679617*	125	27	98
L 02461 APPRO	PRO	LE		1	1	35		12S	38E	679446	3679617*	125	27	98
L 02851 APPRO	DOM	LE		4	2	4	23	12S	38E	680705	3681951*	61	30	31
L 03355	PRO	LE		1	4	35		12S	38E	680265	3678828*	110	110	0
L 03355 APPRO	PRO	LE		1	4	35		12S	38E	680265	3678828*	110	110	0
L 03531	PRO	LE		2	2	4	27	12S	38E	679128	3680513*	96	42	54
L 03531 APPRO	PRO	LE		2	4	4	27	12S	38E	679135	3680111*	96	42	54
L 06873	DOM	LE					34	12S	38E	678461	3678981*	70	42	28
L 06873 CLW	DOM	LE		2	4	3	34	12S	38E	678360	3678485*	70		
L 07417	STK	LE		4	3	28		12S	38E	676622	3679963*	40	18	22
L 08521	DOM	LE		3	4	34		12S	38E	678663	3678394*	75		
L 09341	DOM	LE		1	4	23		12S	38E	680204	3682045*	120	25	95
L 10370	DOM	LE		1	4	4	33	12S	38E	677354	3678469*	65	36	29
L 10374	DOM	LE		1	4	23		12S	38E	680204	3682045*	65		
L 10540	DOM	LE		1	4	4	33	12S	38E	677354	3678469*	80	40	40
L 10704	PRO	LE		3	3	3	27	12S	38E	677727	3679886*	200		
L 10830	DOM	LE			3	34		12S	38E	678059	3678579*	80	45	35

Average Depth to Water: **49 feet**Minimum Depth: **18 feet**Maximum Depth: **120 feet****Record Count:** 19**Basin/County Search:**

Basin: Lea County

PLSS Search:

Section(s): 22, 23, 24, 26, 27, 28, 33, 34, 35
 Township: 12S Range: 38E

*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.

10/13/10 10:23 AM

WATER COLUMN/ AVERAGE
DEPTH TO WATER