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October 3, 2005

**VIA HAND DELIVERY**

Mark E. Fesmire, P. E.  
Director  
Oil Conservation Division  
New Mexico Department of Energy,  
Minerals and Natural Resources  
1220 South Saint Francis Drive  
Santa Fe, New Mexico 87505

**Re: Oil Conservation Division Case No. 13583:** Application of Chesapeake Operating, Inc. for approval of a waterflood project and qualification of the Project Area of the Trinity Burrus Unit for the Recovered Oil Tax Rate pursuant to the Enhanced Oil Recovery Act, Lea County, New Mexico.

Dear Mr. Fesmire:

Enclosed for filing is the application of Chesapeake Operating Inc. in the above-referenced case. This case is included on the ~~August 20, 2005~~ examiner hearing docket.  
*October*

Very truly yours,

William F. Carr

Enclosure

cc: Oil Conservation/Division  
District I  
1625 North French  
Hobbs, New Mexico 88240

Mr. Terry Frohnapfel  
Chesapeake Operating Inc.

**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 11050 Midland TX 79702-8050

CONTACT PARTY : Brenda Coffman

PHONE : (432)687-2992

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 \_\_\_\_\_

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: Brenda Coffman

TITLE: Regulatory Analyst

SIGNATURE: Brenda Coffman

DATE: 09/28/2005

E-MAIL ADDRESS: bcoffman@chkenergy.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 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.

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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.

**APPLICATION FOR AUTHORIZATION TO INJECT  
Chesapeake Operating, Inc.  
Lea County, New Mexico**

**LIST OF WELLS FOR THIS APPLICATION**

<b>Burrus #2A</b> <b>API # 30-025-35188</b> <b>900 FSL &amp; 600 FEL</b> <b>Unit P, Section 22, T12S, R38E</b>	<b>Burrus 7</b> <b>API # 30-025-36187</b> <b>330 FNL &amp; 2310 FWL</b> <b>Unit C, Section 27, T12S, R38E</b>
<b>Burrus 11</b> <b>API # 30-025-36038</b> <b>1650 FSL &amp; 2310 FWL</b> <b>Unit K Section 22, T12S, R38E</b>	<b>Burrus 23 3</b> <b>API # 30-025-36450</b> <b>1650 FSL 2200 FEL</b> <b>Unit J Section 23, T12S, R38E</b>
<b>Burrus 23 5</b> <b>API # 30-025-36451</b> <b>2310 FNL 1650 FWL</b> <b>Unit F Section 23, T12S, R38E</b>	<b>State DZ 1</b> <b>API # 30-025-30106</b> <b>330 FSL &amp; 1650 FWL</b> <b>Unit N Section 23, T12S, R38E</b>
<b>State 22 1</b> <b>API # 30-025-36018</b> <b>2310 FNL 990 FEL</b> <b>Unit H Section 22, T12S, R38E</b>	

**REQUIREMENTS PER FORM C-108**

**ITEM I**

The purpose of this application is secondary Recovery.

**ITEM II**

Chesapeake Operating, inc.  
P. O. Box 11050  
Midland, TX 79702-8050  
Brenda Coffman (432) 687-2992 ext. 6032

**ITEM III**

See Data Sheet attached

**ITEM IV**

This is NOT an expansion of an existing project

**ITEM V**

See map attached

**ITEM VI**

See attached list of wells.

**ITEM VII**

1. Daily average injection rate is expected to be 1,000 BWPD. Maximum daily injection rate would be approximately 1,000 BWPD.
2. The system will be closed.
3. The proposed average injection pressure is expected to be 100 psig and the maximum pressure is expected to be 4600 psig.
4. The source of water to be injected is produced water, fresh water and Devonian. A water analysis is attached for the fresh water and the Devonian.
5. Injection is NOT for disposal.

**ITEM VIII**

The Gladiola; Wolfcamp pool is located in Southeastern Lea County, New Mexico. The top and depth to the bottom of the Wolfcamp is indicated below for each well in this application. The fresh water for the area is from the Ogallala with depth from the surface at approximately 35' and the total depth at around 125'.

<b>Well Name</b>	<b>Top of Wolfcamp</b>	<b>Bottom of Wolfcamp</b>
Burrus 2A	9001	9061
Burrus 23 5	9114	9174
Burrus 23 3	9205	9265
Burrus 7	9115	9175
Burrus 11	9100	9160
State DZ 1	9164	9224
State 22 1	9110	9170

**ITEM IX**

There will not be a stimulation program. The Procedure to Convert the well to an injector is attached.

**ITEM X**

The logs were sent to the Oil Conservation Division when the well was completed.

**ITEM XI**

Water analysis from the fresh water wells within one mile of the injection well is attached.

**ITEM XII**

This application is NOT for a salt water disposal well.

**ITEM XIII**

The "Proof of Notice" as required with this application is attached.

## INJECTION WELL DATA SHEET

OPERATOR: Chesapeake Operating, Inc.

WELL NAME &amp; NUMBER: Burrus 2A

WELL LOCATION: 900' FSL &amp; 600' FEL

FOOTAGE LOCATION

P

UNIT LETTER

22  
SECTION  
TOWNSHIP  
RANGE  
38EWELLBORE SCHEMATIC

Hole Size: 17 1/2"

Top of Cement: 0

Casing Size: 13 3/8"

Method Determined: Observation

Casing Size: 13 3/8"

Cemented with: 440  
sx. or ft<sup>3</sup>

Casing Size: 9 5/8"

Hole Size: 12 1/4"

Casing Size: 9 5/8"

Cemented with: 1150 sx  
sx. or ft<sup>3</sup>

Casing Size: 9 5/8"

Top of Cement: 460'  
Method Determined: CBL

Casing Size: 9 5/8"

Intermediate Casing

Hole Size: 8 1/2"

Casing Size: 7"

Cemented with: 350  
sx. or ft<sup>3</sup>

Casing Size: 7"

Top of Cement: 7780'  
Method Determined: CBL

Casing Size: 7"

Total Depth: 9800'

Casing Size: 7"

Production Casing

? 9056 ?

Injection Interval

9506

feet to 9098

(Perforated or Open Hole; indicated which)

**INJECTION WELL DATA SHEET**

Tubing Size: 2 3/8" Lining Material: plastic  
Type of Packer: 4 1/2" Arrow Set I

Packer Setting Depth: 9474'

Other Type of Tubing/Casing Seal (if applicable): None

**Additional Data**

1. Is This a new well drilled for injection? \_\_\_\_\_ Yes  No  
If no, for what purpose was the well originally drilled? Oil Well
2. Name of the Injected Formation: Wolfcamp
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. 9682 - 9670 - CIBP @ 9650 capped w/cmt; 9504 - 9518' - CIBP @ 9248; 9070' - 9080' - CIBP @ 9065'; 9030 - 9060' - CIBP @ 8867'
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injected zone in this area: Yates 3060'; San Andres 4450'; Glorietta 5897'; Tubb 7158'; Abo 7821'

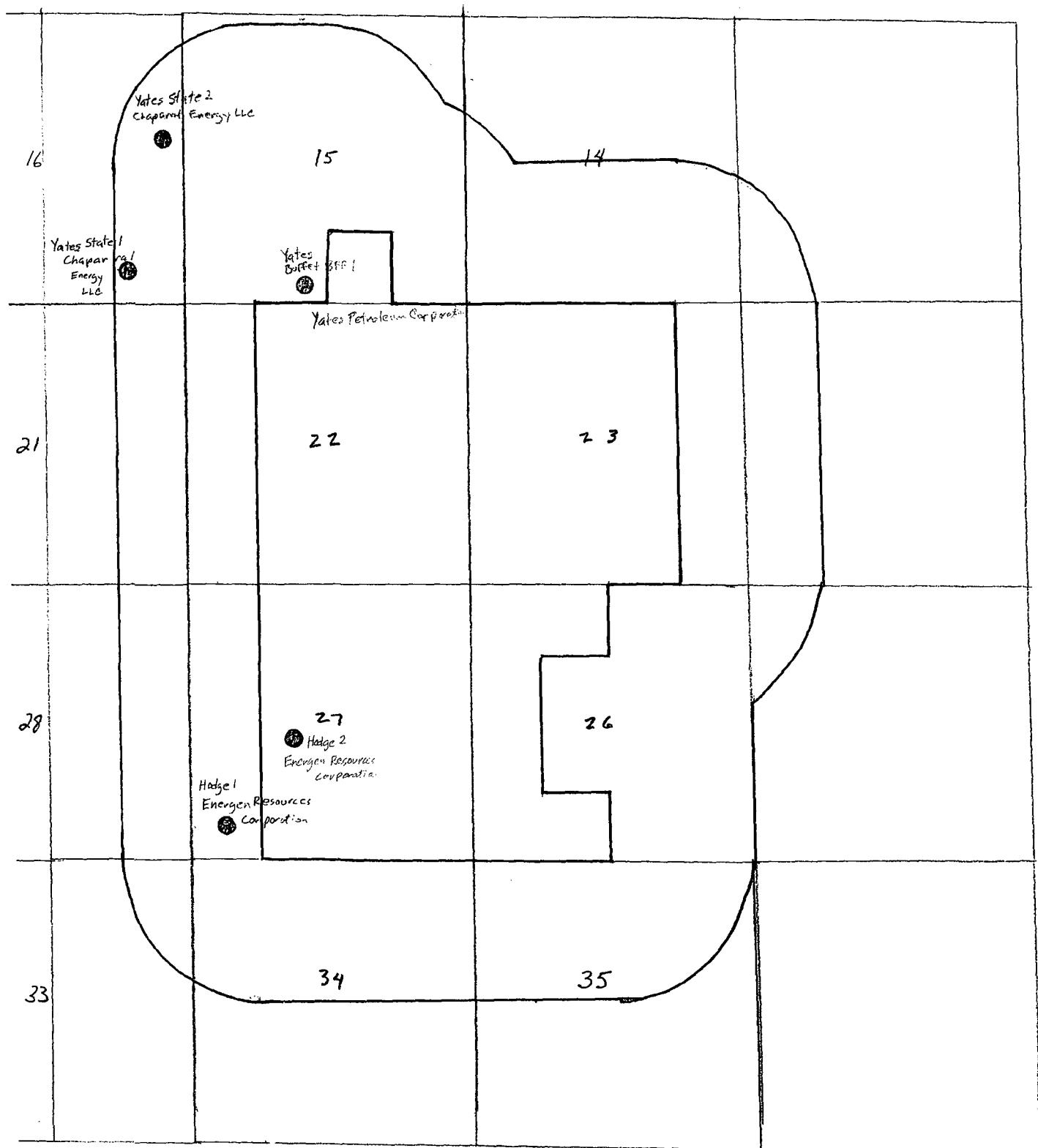
**Trinity Burrus Abo Offset Operators within ½ mile of Unit**

Chaparral Energy LLC  
701 Cedar Lake Boulevard  
Oklahoma City, OK 73114

Energen Resources Corporation  
3300 North "A" Street  
Building 4, Suite 100  
Midland, TX 79705

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

... Burros: Offset Producing wells within  $\frac{1}{2}$  mile of  
Unit Boundary. ● oil ☺ gas





CHESAPEAKE OPERATING, INC.  
P.O. Box 11050  
Midland, TX 79702-8050  
(432) 687-2992

**BURRUS 23 #5 WIW**

**APPLICATION FOR AUTHORIZATION TO INJECT  
LIST OF WELLS WITHIN ½ MILE RADIUS THAT PENETRATE  
INJECTION ZONE FORM C-108 ITEM # VI**

WELL NAME	TYPE	DATE DRILLED	LOCATION	DEPTH
State 23 #3	O	10/3/04	Sec 22-T12S-R38E H 1645 FN - 354 FE	9265
Burrus 23 #1	O	5/23/03	Sec 23-T12S-R38E L 1980 FS - 660 FW	9235
Burrus 23 #2	O	10/3/03	Sec 23-T12S-R38E K 1650 FS - 1650 FW	9265
State DZ #1	O	2/15/02	Sec 23-T12S-R38E N 330 FS - 1650 FW	9316
State DZ #2	O		Sec 23-T12S-R38E	
Burrus 23 Fed #1	O	5/11/04	Sec 23-T12S-R38E O 990 FS - 2170 FE	9420
State 22 #1	O	10/19/02	Sec 22-T12S-R38E H 2310 FE - 990 FE	9250

## INJECTION WELL DATA SHEET

OPERATOR: Chesapeake Operating, Inc.

WELL NAME &amp; NUMBER: Burrus 23 #5

WELL LOCATION: 2310 FNL &amp; 1650 FWL

FOOTAGE LOCATION

F	SECTION	TOWNSHIP	RANGE
UNIT LETTER	23	12S	38E

WELLBORE SCHEMATICWELL CONSTRUCTION DATA

Surface Casing

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

Cemented with: 390 sx. or ft<sup>3</sup>

Top of Cement: 0 Method Determined: observation

Intermediate Casing

Hole Size: 12 1/4 Casing Size: 8 5/8

Cemented with: 1275 sx. or ft<sup>3</sup>

Top of Cement: 0 Method Determined: observation

Production Casing

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

Cemented with: 1275 sx. or ft<sup>3</sup>

Top of Cement: 700 Method Determined: CBL

Total Depth: 9740

Injection Interval

9056 feet to 2091

(Perforated or Open Hole; indicated which)

**INJECTION WELL DATA SHEET**Tubing Size: 2 3/8" Lining Material: plasticType of Packer: Arrow Set IPacker Setting Depth: 8996Other Type of Tubing/Casing Seal (if applicable): None**Additional Data**

1. Is This a new well drilled for injection? \_\_\_\_\_ Yes  No \_\_\_\_\_
  
- If no, for what purpose was the well originally drilled? Oil \_\_\_\_\_
  
2. Name of the Injected Formation: Wolfcamp \_\_\_\_\_
  
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: Abo 7852; Drinkard 7287; Tubb 7161; Blinebry 6599; Glorieta 5933; San Andres 4464; Yates 3064 \_\_\_\_\_

# EAST GLADOLIA

*Burrus 23 #5 WNW*

78

State  
OT Ranch (S)

Geraldine Hisel, M.I.  
OT Ranch

Velma Pond

35

34

33

32

31

30

29

28

27

26

25

24

23

22

21

20

19

18

17

16

15

14

13

12

11

10

9

8

7

6

5

4

3

2

1

0

-

2 mile  
Radius

227

238

T  
12

S

287

To Plains

380

298

33°15'

347

356

404

YOAKUM C

CHESAPEAKE OPERATING, INC.  
P.O. Box 11050  
Midland, TX 79702-8050  
(432) 687-2992

**BURRUS 23 #3 WIW - 1650 FSL - 2200 FEL**

**APPLICATION FOR AUTHORIZATION TO INJECT  
LIST OF WELLS WITHIN ½ MILE RADIUS THAT PENETRATE  
INJECTION ZONE FORM C-108 ITEM # VI**

WELL NAME	TYPE	DATE DRILLED	LOCATION	DEPTH
State DZ #1	O	12/15/02	Sec 23-T12S-R38E N 330 FS - S 1650 FW	9316
Burrus 23 #1	O	5/23/03	Sec 22-T12S-R38E L 1980 FS - 660 FW	9235
State DZ #2	O	8/26/03	Sec 22-T12S-R38E M 990 FS - 1200 FW	9225
Burrus 23 #2	O	10/3/03	Sec 22-T12S-R38E K 1650 FS - 1650 FW	9265
Burrus 23 #5	O	2/29/04	Sec 23-T12S-R38E F 2310 FN - 1650 FW	9793
Burrus 23 Fed #1	O	5/11/04	Sec 23-T12S-R38E O 990 FS - 2170 FE	9420

## INJECTION WELL DATA SHEET

OPERATOR: Chesapeake Operating, Inc.

WELL NAME &amp; NUMBER: Burrus 23 #3

WELL LOCATION: 1650 FSL &amp; 2200 FEL

FOOTAGE LOCATION

WELLBORE SCHEMATIC

UNIT LETTER	SECTION	TOWNSHIP	RANGE
<u>WELL CONSTRUCTION DATA</u>			

Surface Casing

Hole Size: 17 1/2 Casing Size: 13 3/8  
Cemented with: 500 sx. or ft<sup>3</sup>  
Top of Cement: 0 Method Determined: observation  
Intermediate Casing

Hole Size: 12 1/4/ 11 Casing Size: 8 5/8  
Cemented with: 1825 sx. or ft<sup>3</sup>  
Top of Cement: 0 Method Determined: observation  
Production Casing

Hole Size: 7 7/8 Casing Size: 5 1/2  
Cemented with: 1300 sx. or ft<sup>3</sup>  
Top of Cement: 1080 Method Determined: CBL  
Total Depth: 9800  
Injection Interval

9222 feet to 9265

(Perforated or Open Hole; indicated which)

**INJECTION WELL DATA SHEET**Tubing Size: 2 3/8" Liming Material: plastic

Type of Packer: Arrow Set I

Packer Setting Depth: 9162Other Type of Tubing/Casing Seal (if applicable): None**Additional Data**1. Is This a new well drilled for injection? \_\_\_\_\_ Yes  No

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

2. Name of the Injected Formation: Wolfcamp3. 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: Abo 7932; Tubb 7260; San Andres 4400  
4464; Yates 3064



CHESAPEAKE OPERATING, INC.  
P.O. Box 11050  
Midland, TX 79702-8050  
(432) 687-2992

**STATE DZ #1 WIW**

**APPLICATION FOR AUTHORIZATION TO INJECT  
LIST OF WELLS WITHIN ½ MILE RADIUS THAT PENETRATE  
INJECTION ZONE FORM C-108 ITEM # VI**

WELL NAME	TYPE	DATE DRILLED	LOCATION	DEPTH
State DZ #2	O		Sec 22-T12S-R38E	
State 22 Fed #1	O	10/19/02	Sec 22-T12S-R38E H 2310 FN - 990 FE	9250
Burrus 23 #1	O	5/23/03	Sec 23-T12S-R38E L 1980 FS - 660 FW	9235
Burrus 23 #2	O	10/3/03	Sec 23-T12S-R38E K 1650 FS - 1650 FW	9265
Burrus #2A	O	5/13/03	Sec 22-T12S-R38E P 900 FS - 600 FE	9549
Burrus #8	O	7/16/03	Sec 27-T12S-R38E A 330 FN - 330 FE	9164
Burrus 26 #1	O	9/8/03	Sec 26-T12S-R38E D 330 FN - 330 FW	9260
Burrus #5	O	9/19/02	Sec 27-T12S-R38E B 330 FN - 2000 FE	9260

## INJECTION WELL DATA SHEET

OPERATOR: Chesapeake Operating, Inc.

WELL NAME & NUMBER: State DZ 1

WELL LOCATION: 330 FSL & 1650 FSW      N      UNIT LETTER      SECTION      TOWNSHIP      RANGE  
FOOTAGE LOCATION      330 FSL & 1650 FSW      N      23      12S      38E

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing

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

Cemented with: 400      sx. or ft<sup>3</sup>

Top of Cement: 0      Method Determined: observation

Intermediate Casing

Hole Size: 12 1/4      Casing Size: 9 5/8

Cemented with: 2300      sx. or ft<sup>3</sup>

Top of Cement: 0      Method Determined: observation

Production Casing

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

Cemented with: 315      sx. or ft<sup>3</sup>

Top of Cement: 7900      Method Determined: CBL

Total Depth: 9316

Injection Interval

9110      feet to 9136

(Perforated or Open Hole; indicated which)

**INJECTION WELL DATA SHEET**

Tubing Size: 2 3/8" Lining Material: plastic  
Type of Packer: Arrow Set I

Packer Setting Depth: 9050

Other Type of Tubing/Casing Seal (if applicable): None

**Additional Data**

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

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

2. Name of the Injected Formation: Wolfcamp

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: Abo 7860; Drinkard 7200; Tubb 7170; Glorieta 5700; San Andres 4450  
4464; Yates 3064



CHESAPEAKE OPERATING, INC.  
P.O. Box 11050  
Midland, TX 79702-8050  
(432) 687-2992

STATE 22 #1 WIW

APPLICATION FOR AUTHORIZATION TO INJECT  
LIST OF WELLS WITHIN ½ MILE RADIUS THAT PENETRATE  
INJECTION ZONE FORM C-108 ITEM # VI

WELL NAME	TYPE	DATE DRILLED	LOCATION	DEPTH
State 22 #3	O	10/3/04	Sec 22-T12S-R38E H 1645 FS - 354 FW	9265
Burrus #4	O	2/6/02	Sec 22-T12S-R38E I 2310 FS - 1210 FW	9214
Burrus #11	O	11/13/02	Sec 22-T12S-R38E K 1650 FS - 2310 FW	9240
Burrus #3	O	7/3/01	Sec 22-T12S-R38E J 1720 FS - 2310 FW	9184
Burrus #1	O	4/11/00	Sec 22-T12S-R38E O 900 FS - 1859 FW	12036
Burrus #2A	O	5/13/03	Sec 22-T12S-R38E P 900 FS - 600 FW	
Burrus 23 #1	O	5/23/03	Sec 23-T12S-R38E L 1980 FS - 660 FW	9235
Burrus 23 #5	O	2/29/04	Sec 23-T12S-R38E F 2310 FN - 1650 FW	9793
State 22 #2	O	8/31/04	Sec 22-T22S-R38E C 217 FN - 2417 FW	9800

## Side 1

## INJECTION WELL DATA SHEET

OPERATOR: Chesapeake Operating, Inc.

WELL NAME &amp; NUMBER: State 22 1

WELL LOCATION: 2310 FNL &amp; 990 FEL

FOOTAGE LOCATION  
FNL & 990 FELWELLBORE SCHEMATIC

	H	UNIT LETTER	SECTION	TOWNSHIP	RANGE
WELL LOCATION:	23		12S		38E
<u>WELL CONSTRUCTION DATA</u>					
Surface Casing					

Hole Size: 17 1/2 Casing Size: 13 3/8  
Cemented with: 375 sx. or ft<sup>3</sup>  
Top of Cement: 0 Method Determined: observation

Intermediate Casing

Hole Size: 11 Casing Size: 8 5/8  
Cemented with: 1357 sx. or ft<sup>3</sup>  
Top of Cement: 0 Method Determined: observation

Production Casing

Hole Size: 7 7/8 Casing Size: 5 1/2  
Cemented with: 892 sx. or ft<sup>3</sup>  
Top of Cement: 3470 Method Determined: CBL

Total Depth: 9250 Injection Interval

9052 feet to 9086

(Perforated or Open Hole; indicated which)

**INJECTION WELL DATA SHEET**Tubing Size: 2 3/8" Lining Material: plasticType of Packer: Arrow Set IPacker Setting Depth: 8992Other Type of Tubing/Casing Seal (if applicable): None**Additional Data**1. Is This a new well drilled for injection? \_\_\_\_\_ Yes  NoIf no, for what purpose was the well originally drilled? Oil2. Name of the Injected Formation: Wolfcamp3. Name of Field or Pool (if applicable): Trinity:Wolfcamp4. 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. Yes9104 - 9110 CIBP 90955. Give the name and depths of any oil or gas zones underlying or overlying the proposed injected zone in this area: Abo 7845; San Andres 4455; Yates 3050



CHESAPEAKE OPERATING, INC.  
P.O. Box 11050  
Midland, TX 79702-8050  
(432) 687-2992

**BURRUS 11 WIW**

**APPLICATION FOR AUTHORIZATION TO INJECT  
LIST OF WELLS WITHIN ½ MILE RADIUS THAT PENETRATE  
INJECTION ZONE FORM C-108 ITEM # VI**

WELL NAME	TYPE	DATE DRILLED	LOCATION	DEPTH
Burrus #1	O	4/11/00	Sec 22-T12S-R38E O 900 FS - 1859 FE	12036
Burrus #3	O	7/3/01	Sec 22-T12S-R38E J 1720 FS - 2310 FE	9184
Burrus #4	O	2/6/02	Sec 22-T12S-R38E I 2310 FS - 1210 FE	9214
Burrus #6	O	7/13/02	Sec 22-T12S-R38E N 330 FS - 2310 FW	9254
Burrus #7	O	4/17/03	Sec 27-T12S-R38E C 330 FN - N 2310 FW	9218
Burrus #5	O	9/19/02	Sec 27-T12S-R38E B 330 FN - 2000 FE	9260
State 22 #1	O	10/19/02	Sec 22-T12S-R38E H 2310 FN - 990 FE	9250

Side 1

## INJECTION WELL DATA SHEET

OPERATOR: Chesapeake Operating, Inc.

WELL NAME & NUMBER: Burrus 11

WELL LOCATION: 1650 FSL & 2310 FWL

FOOTAGE LOCATION  
WELLBORE SCHEMATIC

K UNIT LETTER      22 SECTION      12S TOWNSHIP      38E RANGE

### WELL CONSTRUCTION DATA

#### Surface Casing

Hole Size: 17 1/2

Casing Size: 13 3/8

Cemented with: 440

sx. or ft<sup>3</sup>

Top of Cement: 0

Method Determined: observation

#### Intermediate Casing

Hole Size: 12 1/4

Casing Size: 8 5/8

Cemented with: 1414

sx. or ft<sup>3</sup>

Top of Cement: 0

Method Determined: observation

#### Production Casing

Hole Size: 7 7/8

Casing Size: 5 1/2

Cemented with: 895

sx. or ft<sup>3</sup>

Top of Cement: 3625

Method Determined: CBL

Total Depth: 9240

#### Injection Interval

9030 feet to 9080

(Perforated or Open Hole; indicated which)

**INJECTION WELL DATA SHEET**

Tubing Size: 2 3/8" Lining Material: plastic  
Type of Packer: Arrow Set I

Packer Setting Depth: 8970

Other Type of Tubing/Casing Seal (if applicable): None

**Additional Data**

1. Is This a new well drilled for injection? \_\_\_\_\_ Yes  No  
If no, for what purpose was the well originally drilled? Oil \_\_\_\_\_
2. Name of the Injected Formation: Wolfcamp
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: Abo 7840; San Andres 4460; Yates 3055



CHESAPEAKE OPERATING, INC.  
P.O. Box 11050  
Midland, TX 79702-8050  
(432) 687-2992

**BURRUS 7 WIW**

**APPLICATION FOR AUTHORIZATION TO INJECT  
LIST OF WELLS WITHIN ½ MILE RADIUS THAT PENETRATE  
INJECTION ZONE FORM C-108 ITEM # VI**

WELL NAME	TYPE	DATE DRILLED	LOCATION	DEPTH
Burrus #5	O	9/19/02	Sec 27-T12S-R38E B 330 FN - 2000 FE	9260
Burrus #8	O	7/16/03	Sec 27-T12S-R38E A 330 FN - 330 FE	9164
Burrus #6	O	7/13/02	Sec 22-T12S-R38E N 330 FS - 2310 FW	9254
Burrus #1	O	4/11/02	Sec 22-T12S-R38E O 900 FS - 1859 FE	12036
Burrus #3	O	7/3/01	Sec 22-T12S-R38E J 1720 FS - 2310 FE	9184
Burrus #11	O	11/13/02	Sec 22-T12S-R38E K 1650 FS - 2310 FW	9240
Burrus #2A	O	5/13/03	Sec 22-T12S-R38E P 900 FS - 600 FE	9549
Burrus 27 #9	O	8/7/04	Sec 23-T12S-R38E L 1980 FS - 660 FW	9800

## INJECTION WELL DATA SHEET

OPERATOR: Chesapeake Operating, Inc.WELL NAME & NUMBER: Burrus 7WELL LOCATION: 330 FNL 2310 FWLFOOTAGE LOCATION  
                                WELLBORE SCHEMATIC

WELL LETTER	C	SECTION	27	TOWNSHIP	12S	RANGE	38E
-------------	---	---------	----	----------	-----	-------	-----

WELL CONSTRUCTION DATASurface CasingHole Size: 17 1/2 Casing Size: 13 3/8Cemented with: 440 sx. or                                      ft<sup>3</sup>Top of Cement: 0 Method Determined: observationIntermediate CasingHole Size: 12 1/4 Casing Size: 8 5/8Cemented with: 1550 sx. or                                      ft<sup>3</sup>Top of Cement: 0 Method Determined: observationProduction CasingHole Size: 7 7/8 Casing Size: 5 1/2Cemented with: 800 sx. or                                      ft<sup>3</sup>Top of Cement: 4660 Method Determined: CBLTotal Depth: 9218Injection Interval9048 feet to 9092

(Perforated or Open Hole; indicated which)

**INJECTION WELL DATA SHEET**

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

Type of Packer: Arrow Set 1

Packer Setting Depth: 8988

Other Type of Tubing/Casing Seal (if applicable): None

Additional Data

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

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

2. Name of the Injected Formation: Wolfcamp

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: Abo 7840; Tubb 7150; Glorieta 5370; San andres 4460

EAST GLADIOLA									
Burres # 7 Water Injection Well									
404									
227									
287									
347									
355									
304									

**Procedure to Convert Producing Wells to Injectors**  
**Burrus Waterflood**  
**Lea Co. NM**

1. MIRU workover rig. ND wellhead, NU BOP.
2. POH and lay down rods, pump and tbg.
3. RIH w/ injection packer on 2 3/8" plastic lined tbg. Place packer within 100' of the top perf.
4. Load backside with packer fluids and set packer.
5. Pressure test back side to 500 psi.
6. ND BOP, NU wellhead. RD workover rig. Hook well up for injection with flow meter. Install pressure gauges to monitor both tubing and annulus pressures.

Aug. 20. 2004 12:53PM

No. 3011 P. 2

P.O. BOX 98  
MIDLAND, TX. 79702  
PHONE (432) 683-4521

## Martin Water Laboratories, Inc.

709 W. INDIANA  
MIDLAND, TEXAS 79701  
FAX (432) 682-8819

## RESULT OF WATER ANALYSES

TO: Mr. Rob Crews  
5014 Carlsbad Hwy, Hobbs, NM 88240

LABORATORY NO.	804-102
SAMPLE RECEIVED	8-13-04
RESULTS REPORTED	8-17-04

COMPANY Chesapeake Operating

LEASE \_\_\_\_\_

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

Lea \_\_\_\_\_

SECTION \_\_\_\_ BLOCK \_\_\_\_ SURVEY \_\_\_\_\_

COUNTY \_\_\_\_\_ STATE \_\_\_\_\_ NM \_\_\_\_\_

SOURCE OF SAMPLE AND DATE TAKEN:

Drinking water - taken from windmill south of new location for Burrus #12.

NO. 1 Drinking water - taken from water well next to Burrus #2-A.

NO. 2 Maximum contents for drinking water as recommended by the Texas Dept. of Health.

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

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

REMARKS: \_\_\_\_\_

	CHEMICAL AND PHYSICAL PROPERTIES			
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0007	1.0019		
pH When Sampled				
pH When Received	7.00	6.90		
Bicarbonate as HCO <sub>3</sub>	259	205		
Supersaturation as CaCO <sub>3</sub>				
Undersaturation as CaCO <sub>3</sub>				
Total Hardness as CaCO <sub>3</sub>	250	700		
Calcium as Ca	90	216		
Magnesium as Mg	6	39		
Sodium and/or Potassium	89	300		
Sulfate as SO <sub>4</sub>	145	310	300	
Chloride as Cl	57	611	300	
Iron as Fe	0.25	0.40	0.30	
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	644	1,680	1,000	
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen,				
Hydrogen Sulfide	0.0	0.0		
Resistivity, ohms/m at 77° F.	12.88	3.75		
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Nitrate, as N	1.9	2.8	10.0	

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks  
of his knowledge and belief.

The undersigned certifies the above to be true and correct to the best

By

Greg Ogden, B.S.

# Devonian

Analytical Laboratory Report for:  
**Chesapeake Operating**



**Chemical Services**

Account Representative:  
Jerry White

## Production Water Analysis

Listed below please find water analysis report from: Apache, SWD

Lab Test No: 2005133824      Sample Date: 09/29/2005  
Specific Gravity: 1.034

TDS: 50896  
pH: 6.80

Cations:	mg/L	as:
Calcium	1954	(Ca <sup>++</sup> )
Magnesium	522	(Mg <sup>++</sup> )
Sodium	14091	(Na <sup>+</sup> )
Iron	56.41	(Fe <sup>++</sup> )
Potassium	480.0	(K <sup>+</sup> )
Barium	0.35	(Ba <sup>++</sup> )
Strontium	55.89	(Sr <sup>++</sup> )
Manganese	1.23	(Mn <sup>++</sup> )
Anions:	mg/L	as:
Bicarbonate	415	(HCO <sub>3</sub> <sup>-</sup> )
Sulfate	1200	(SO <sub>4</sub> <sup>=</sup> )
Chloride	32600	(Cl <sup>-</sup> )
Gases:		
Carbon Dioxide	50	(CO <sub>2</sub> )
Hydrogen Sulfide		(H <sub>2</sub> S)

Chesapeake Operating

Lab Test No: 2005133824

**DownHole SAT™ Scale Prediction  
@ 100 deg. F**



Chemical Services

Mineral Scale	Saturation Index	Momentary Excess (lbs/1000 bbls)
Calcite (CaCO3)	3.18	.13
Aragonite (CaCO3)	2.69	.119
Witherite (BaCO3)	< 0.001	-20.42
Strontianite (SrCO3)	.157	-1.43
Magnesite (MgCO3)	.939	-.0103
Anhydrite (CaSO4)	.632	-152.48
Gypsum (CaSO4*2H2O)	.729	-112.54
Barite (BaSO4)	1.67	.0828
Celestite (SrSO4)	.259	-89.81
Silica (SiO2)	0	-52.27
Brucite (Mg(OH)2)	< 0.001	-.583
Magnesium silicate	0	-120.03
Strengite (FePO4*2H2O)	0	>-0.001
Siderite (FeCO3)	154.45	.219
Halite (NaCl)	.00771	-178312
Thenardite (Na2SO4)	< 0.001	-70042
Iron sulfide (FeS)	0	-.0256

**Interpretation of DHSat Results:**

The Saturation Index is calculated for each mineral species independently and is a measure of the degree of supersaturation (driving force for precipitation) under the conditions modeled. This value ranges from 0 to infinity with 1.0 representing a condition of equilibrium where scale will neither dissolve nor precipitate. Values less than 1.0 are undersaturated and values greater than 1.0 are supersaturated. The scale is logarithmic, i.e. a Saturation Index of 3 is 10 times more saturated than a value of 2.

The Momentary excess is a measure of how much scale would have to precipitate to bring the system back to a non-scaling condition. This value ranges from negative (dissolving) infinity to positive (precipitating) infinity. The Momentary Excess represents the amount of scale possible while the Saturation Level represents the probability that scale will form.

Trinity Burrus Abo Unit

Surface Ownership:

[REDACTED] 07 Ranch Land Mineral Limited Partnership  
PO Box 1090  
Plains, TX 79355  
(806/456-7401)

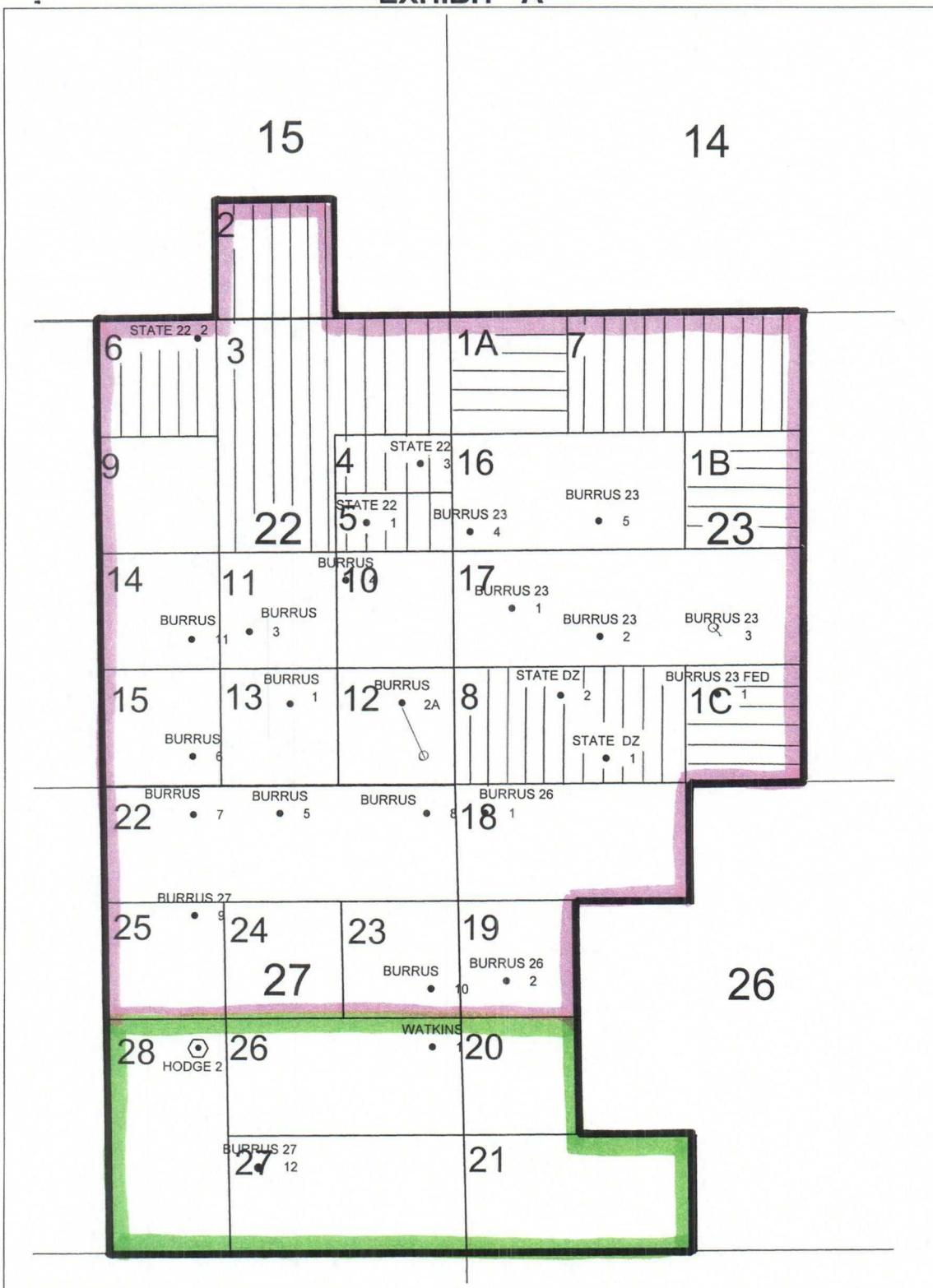
Owns all of surface inside unit, less the below listed land.

[REDACTED] Jimmy P. Hodge  
P.O. Box 565  
Lovington, NM 88260  
(505/396-2104)

NW SW & S/2 SW of Sec.26;  
And SE & E/2 SW of Sec. 27;  
All in T12S-R38E  
Lea County, NM

(See attached map)

# EXHIBIT "A"



TOWNSHIP 12 SOUTH, RANGE 38 EAST  
LEA COUNTY, NEW MEXICO

## PROPOSED TRINITY BURRUS ABO UNIT CHESAPEAKE ENERGY CORPORATION

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>— Proposed Waterflood Unit Boundary</li> <li>● Chesapeake Operated Wells</li> <li>◎ Energen Resources Operated Wells</li> </ul> | <ul style="list-style-type: none"> <li>■ Federal Acreage = 120 acres</li> <li>■ State Acreage = 400 acres</li> <li>■ Fee Acreage = 1200 acres</li> <li>Total Acreage = 1720 acres</li> </ul> |
|--|--|

**CHESAPEAKE OPERATING, INC.  
P O BOX 11050  
MIDLAND, TX 79702-8050**

**September 30, 2005**

**PROOF OF NOTICE  
ITEM XIII  
FORM C-108  
APPLICATION FOR AUTHORIZATION TO INJECT**

**I, Brenda Coffman, do hereby certify that a copy of the Form C-108, along with all attachments has been mailed by Certified Mail on this date to all of the following:**

**OFFSET OPERATORS:**

Chaparral Energy LLC  
701 Cedar Lake Boulevard  
Oklahoma City, OK 73114

Energen Resources Corporation  
3300 North "A" Street  
Building 4, Suite 100  
Midland, TX 79705

Yates Petroleum Corporation  
105 South 4<sup>th</sup> Street  
Artesia, NM 88210

**SURFACE OWNERS:**

(Description of Ownership within application)

Jimmy P. Hodge  
P. O. Box 565  
Lovington, NM 88260

07 Ranch Land Mineral Limited Partnership  
P. O. Box 1090  
Plains, TX 79355

Brenda Coffman  
Brenda Coffman

Regulatory Analyst 9-30-05  
Title Date



**Midland Field Office**

September 30, 2005

Chaparral Energy LLC  
701 Cedar Lake Boulevard  
Oklahoma City, OK 73114

RE: Application for Authorization to Inject  
Lea County, New Mexico

Dear Sir:

Please, find within a copy of the Application for Authorization to Inject.

As offset leasehold operator to our project area and in compliance with the New Mexico Oil Conservation Commission, enclosed is a copy of our Application to Inject (Form C-108) along with all attachments.

If there are no objections to the application, please, acknowledge below and return to me at P. O. Box 11050, Midland, TX 79702-8050. Any objections must be filed with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, NM 87505 within 15 days from the date this application was mailed.

Yours truly,

A handwritten signature in black ink that reads "Brenda Coffman".

Brenda Coffman  
Regulatory Analyst

\_\_\_\_\_  
has no objections to Chesapeake Operating's  
Application for Authorization to Inject into the following wells located in Sec. 22 T12S  
R38E, Lea County NM: Burrus 2A; Burrus 11; Burrus 23 3; Burrus 23 5; State DZ 1;  
State 22 1; Sec. 27: Burrus 7

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Date



Midland Field Office

September 30, 2005

Energen Resources Corporation  
3300 North "A" Street  
Building 4, Suite 100  
Midland, TX 79705

RE: Application for Authorization to Inject  
Lea County, New Mexico

Dear Sir:

Please, find within a copy of the Application for Authorization to Inject.

As offset leasehold operator to our project area and in compliance with the New Mexico Oil Conservation Commission, enclosed is a copy of our Application to Inject (Form C-108) along with all attachments.

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Yours truly,

A handwritten signature in black ink that reads "Brenda Coffman".

Brenda Coffman  
Regulatory Analyst

\_\_\_\_\_  
has no objections to Chesapeake Operating's  
Application for Authorization to Inject into the following wells located in Sec. 22 T12S  
R38E, Lea County NM: Burrus 2A; Burrus 11; Burrus 23 3; Burrus 23 5; State DZ 1;  
State 22 1; Sec. 27: Burrus 7

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Date



Midland Field Office

September 30, 2005

Yates Petroleum Corporation  
105 South 4<sup>th</sup> Street  
Artesia, NM 88210

RE: Application for Authorization to Inject  
Lea County, New Mexico

Dear Sir:

Please, find within a copy of the Application for Authorization to Inject.

As offset leasehold operator to our project area and in compliance with the New Mexico Oil Conservation Commission, enclosed is a copy of our Application to Inject (Form C-108) along with all attachments.

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Yours truly,

Brenda Coffman  
Regulatory Analyst

\_\_\_\_\_  
has no objections to Chesapeake Operating's  
Application for Authorization to Inject into the following wells located in Sec. 22 T12S  
R38E, Lea County NM: Burrus 2A; Burrus 11; Burrus 23 3; Burrus 23 5; State DZ 1;  
State 22 1; Sec. 27: Burrus 7

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Date



Midland Field Office

September 30, 2005

Jimmy P. Hodge  
P. O. Box 565  
Lovington, NM 88260

RE: NW SW & S/2 SW of Sec. 26;  
And SE & E/2 SW of Sec. 27;  
All in T12S, R38E  
Lea County, New Mexico  
Water Flood Project

Dear Sir:

Please, find within a copy of the Application for Authorization to Inject.

As surface owner within our project area and in compliance with the New Mexico Oil Conservation Commission, enclosed is a copy of our Application to Inject (Form C-108) along with all attachments.

If there are no objections to the application, please, acknowledge below and return to me at P. O. Box 11050, Midland, TX 79702-8050. Any objections must be filed with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, NM 87505 within 15 days from the date this application was mailed.

Yours truly,

A handwritten signature in black ink that reads "Brenda Coffman".

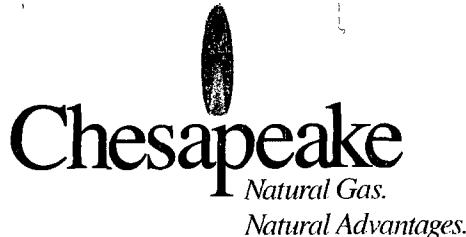
Brenda Coffman  
Regulatory Analyst

\_\_\_\_\_  
has no objections to Chesapeake Operating's  
Application for Authorization to Inject into the following wells located in Sec. 22 T12S  
R38E, Lea County NM: Burrus 2A; Burrus 11; Burrus 23 3; Burrus 23 5; State DZ 1;  
State 22 1; Sec. 27: Burrus 7

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Date



**Midland Field Office**

September 29, 2005

07 Ranch Land Mineral Limited Partnership  
PO Box 1090  
Plains, TX 79355

RE: T12S, R38E, Lea County NM  
Water Flood Project

Dear Sir:

Please, find within a copy of the Application for Authorization to Inject.

As surface owner within our project area and in compliance with the New Mexico Oil Conservation Commission, enclosed is a copy of our Application to Inject (Form C-108) along with all attachments.

If there are no objections to the application, please, acknowledge below and return to me at P. O. Box 11050, Midland, TX 79702-8050. Any objections must be filed with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, NM 87505 within 15 days from the date this application was mailed.

Yours truly,

Brenda Coffman  
Regulatory Analyst

\_\_\_\_\_  
has no objections to Chesapeake Operating's  
Application for Authorization to Inject into the following wells located in Sec. 22 T12S  
R38E, Lea County NM: Burrus 2A; Burrus 11; Burrus 23 3; Burrus 23 5; State DZ 1;  
State 22 1; Sec. 27: Burrus 7

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Date

CASE 13583: Application of Chesapeake Operating, Inc. for approval of a waterflood project and qualification of the Project Area of the Trinity Burrus Unit for the Recovered Oil Tax rate pursuant to the Enhanced Oil Recovery Act, Lea County, New Mexico. Applicant in the above-styled cause, seeks approval of its Trinity Burrus Unit Waterflood Project by injection of water into the Wolfcamp formation through seven injection wells located in the following described area:

**TOWNSHIP 12 SOUTH, RANGE 38 EAST, NMPM**

Section 15:	SW/4 SE/4
Section 22:	E/2, E/2 W/2
Section 23:	W/2, W/2 E/2
Section 26:	W/2 W/2, NE/4 NW/4, SE/4 SW/4
Section 27:	E/2, E/2 W/2

The applicant requests that the Division establish procedures for the administrative approval of additional injection wells within the unit area without the necessity of further hearings and the adoption of any provisions necessary for such other matters as may be appropriate for said waterflood operations. Said area is located approximately 25 miles northeast of Lovington, New Mexico.

**CHESAPEAKE OPERATING, INC.**  
**P.O. Box 11050**  
**Midland, TX 79702-8050**  
**(432) 687-2992**

**BURRUS 2A**

**APPLICATION FOR AUTHORIZATION TO INJECT  
LIST OF WELLS WITHIN ½ MILE RADIUS THAT PENETRATE  
INJECTION ZONE FORM C-108 ITEM # VI**

WELL NAME	TYPE	DATE DRILLED	LOCATION	DEPTH
Burrus #6	O	7/13/02	Sec 22-T12S-R38E N 330 FS - 2310 FW	9254
Burrus #1	O	4/11/02	Sec 22-T12S-R38E N 900 FS - 1859 FE	12036
Burrus #11	O	11/13/02	Sec 22-T12S-R38E K 1650 FS - 2310 FW	9240
Burrus #3	O	7/3/01	Sec 22-T12S-R38E J 1720 FS - 2310 FE	9184
Burrus #4	O	2/6/02	Sec 22-T12S-R38E I 2310 FS - 1210 FE	9214
State 22 #3	O	10/3/04	Sec 22-T12S-R38E H 1645 FN - 354 FE	9265
State DZ #1	O	2/15/02	Sec 22-T12S-R38E N 330 FS - 1650 FW	9316
Burrus 23 #1	O	5/23/03	Sec 22-T12S-R38E L 1980 FS - 660 FW	9235
Burrus 23 #2	O	10/3/03	Sec 22-T12S-R38E K 1650 FS - 1650 FW	9265
Burrus 26 #1	O	9/8/03	Sec 26-T12S-R38E D 330 FN - 330 FW	9260
Burrus #5	O	9/19/02	Sec 27-T12S-R38E B 330 FN - 2000 FE	9260

Burrus #8	O	7/16/03	Sec 27-T12S-R38E A 330 FN - 330 FE	9164
Burrus #7	O	4/17/03	Sec 27-T12S-R38E C 330 FN - 2310 FW	9218
State 22 #1	O	10/19/02	Sec 22-T12S-R38E H 2310 FN - 990 FE	9250