

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

Form C-101  
Permit 8083

**APPLICATION FOR PERMIT TO DRILL**

Operator Name and Address CHESAPEAKE OPERATING, INC. PO Box 11050 Midland, TX 79702-8050		OGRID Number 147179
		API Number 30-025-37130
Property Code 34682	Property Name CHAVLEA 19 STATE	Well No. 001

**Surface Location**

UL or Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
M	19	12S	32E	4	660	S	660	W	Lea

**Proposed Pools**

CAPROCK, MORROW, WEST (GAS) 73780

Well Type New Well	Well Type GAS	Cable/Rotary	Lease Type State	Ground Level Elevation 4399
Multiple N	Proposed Depth 11300	Formation Mississippi Limestone	Contractor	Spud Date 04/01/2005

**Proposed Casing and Cement Program**

Type	Hole Size	Casing Size	Casing Weight/lb	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	48	360	400	0
Int1	11	8.625	32	3600	780	0
Prod	7.875	5.5	17	11300	1025	3000

**Casing/Cement Program: Additional Comments**

Surf Csg: 13 3/8 Cmtid w/190 sx 35.65 Poz C1C + 2% CaCl2 + additives, Tail in w/210 sx C1C + 2% CaCl2, circ. to surface.  
11 csg. cmtid w/ 650 sx 50.50 Poz. C1C + additives, Tail in w/110 sx C1C + CaCl2 Circ. to surface. 5 1/2 csg. cmtid w/130 sx 50.50 Poz C1H + additives, 1st Stage Tail: 335 sx 50.50 Poz C1H + additives; 2nd stage 510 sx 50.50 Poz C1H + additives, Tail w/50 sx 50.50 Poz C1H + additives.

**Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer
Annular	5000	5000	
Double Ram	5000	5000	

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

Electronically Signed By: Brenda Coffman

Title: Regulatory Analyst

Date: 03/10/2005

Phone: 432-685-4310

**OIL CONSERVATION DIVISION**

Electronically Approved By: Paul Kautz

Title: Geologist

Approval Date: 03/11/2005

Expiration Date: 03/11/2006

Conditions of Approval:

There are conditions. See Attached.

BEFORE THE  
OIL CONSERVATION DIVISION  
Case 13526 Exhibit No. 4  
Submitted by Chesapeake  
Operating, Inc.

Certificate Number: 7977

# Permit Conditions Of Approval

C-101, Permit 8083

Operator: CHESAPEAKE OPERATING, INC. , 147179

Well: CHAVLEA 19 STATE #001

OCD Reviewer	Condition
PKAUTZ	Re-seeding mixture will must be approved or authorized by surface owner
PKAUTZ	Notice is to be given to the OCD prior to construction of the pit(s)
PKAUTZ	Pit construction and closure must satisfy all requirements of O.C.D. Rule 19.15.2.50, and the Pit and Below-Grade Tank Guidelines

Submit 3 Copies To Appropriate District Office

State of New Mexico  
Energy, Minerals and Natural ResourcesForm C-103  
May 27, 2004

## District I

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## District IV

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

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

WELL API NO.

30-025-37130

5. Indicate Type of Lease

STATE ☒ FEE ☐

6. State Oil &amp; Gas Lease No.

7. Lease Name or Unit Agreement Name  
Chavlea 19 State

8. Well Number 001

9. OGRID Number 147179

10. Pool name or Wildcat  
Undesignated; Mississippian

## SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

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

2. Name of Operator

Chesapeake Operating, Inc.

3. Address of Operator

P. O. Box 11050  
Midland, TX 79702-8050

4. Well Location

Unit Letter M : 660 feet from the South line and 660 feet from the West line  
Section 19 Township 12S Range 32E NMPM County Chaves11. Elevation (Show whether DR, RKB, RT, GR, etc.)  
4399 GRPit or Below-grade Tank Application ☒ or Closure ☐

Pit type Drilling Depth to Groundwater 100 Distance from nearest fresh water well 1000 Distance from nearest surface water 1000

Pit Liner Thickness: 12 in. Below-Grade Tank: Volume 12139 bbls; Construction Material

## 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 ☐

## SUBSEQUENT REPORT OF:

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

OTHER: Close Pit

☒

OTHER:

☐

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 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Chesapeake plans to close the drilling pit for this well according to current NMOCD guidelines Section B3b.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☒, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE

Brenda Coffman

TITLE Regulatory Analyst

DATE 03/10/2005

Type or print name Brenda Coffman

E-mail address: bcoffman@chm.com

Telephone No. (432) 687-2992

For State Use Only

APPROVED BY:

Gary W. Wink

TITLE OC FIELD REPRESENTATIVE II/STAFF MANAGER

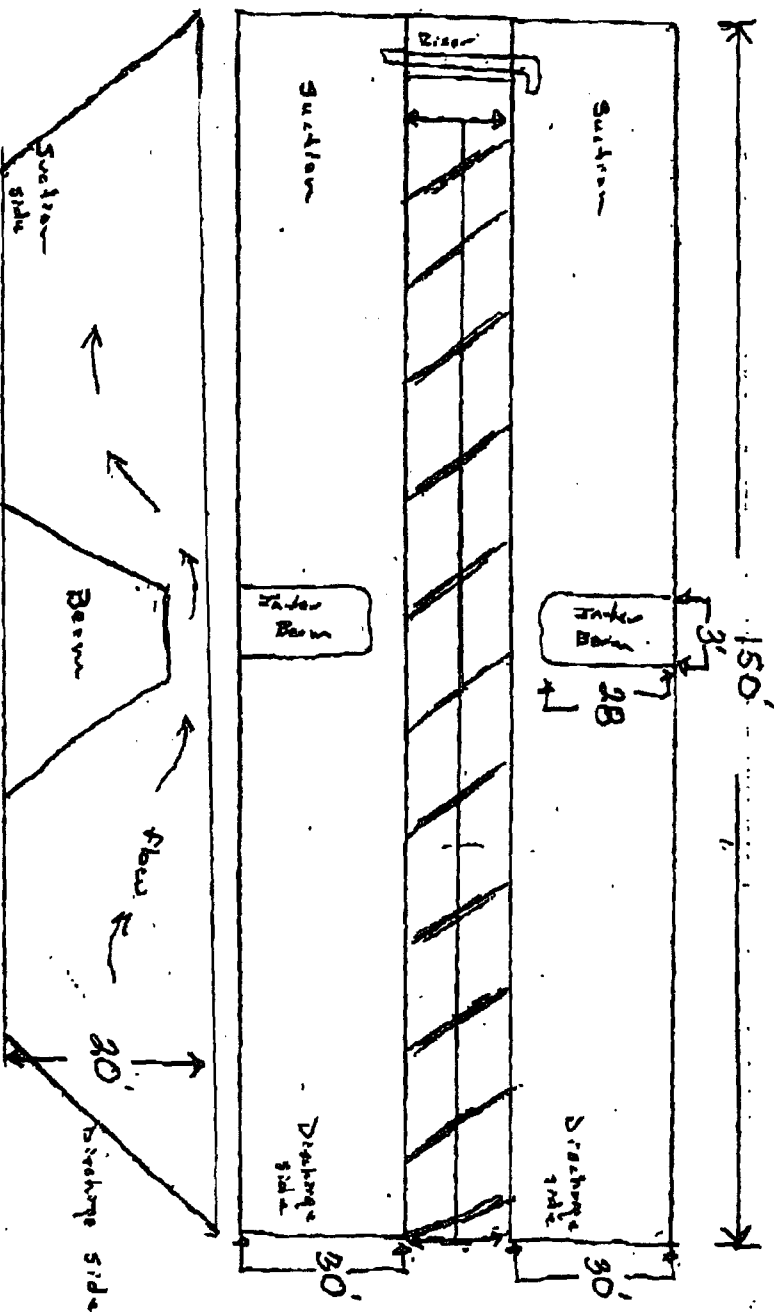
Conditions of Approval (if any):

MAR 28 2005

Chesapeake Energy

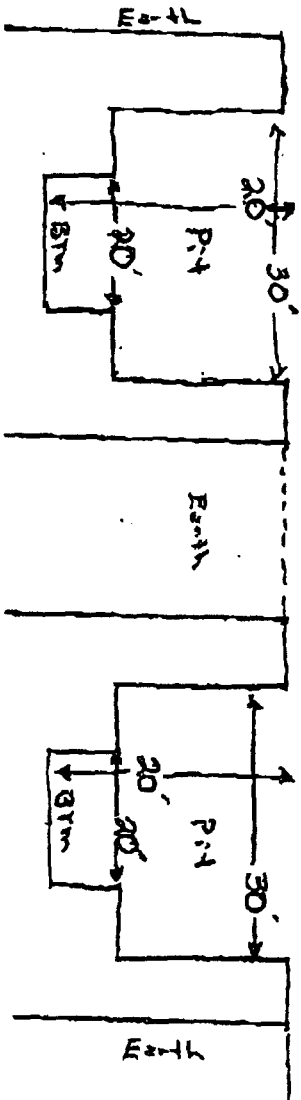
Double Pit

Guideline 3A



Top View

Side View



End cross section

3x 30' x 140' = 75600 ft<sup>3</sup> ÷ 5.6146 = 13464.8 bbls x 2 = 26929.7 bbls. with 18' of fluid cuttings in pits.  
 6' x 30' x 140' = 90000 ft<sup>3</sup> ÷ 5.6146 = 16029.6 bbls x 2 = 32059.2 bbls with 20'

Office

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Energy, Minerals and Natural Resources

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OTHER: Close Pit

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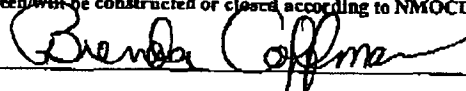
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SIGNATURE



TITLE Regulatory Analyst

DATE 03/10/2005

Type or print name Brenda Coffman  
For State Use Only

E-mail address: bcoffman@chkenenergy.com

Telephone No. (432)687-2992

APPROVED BY:

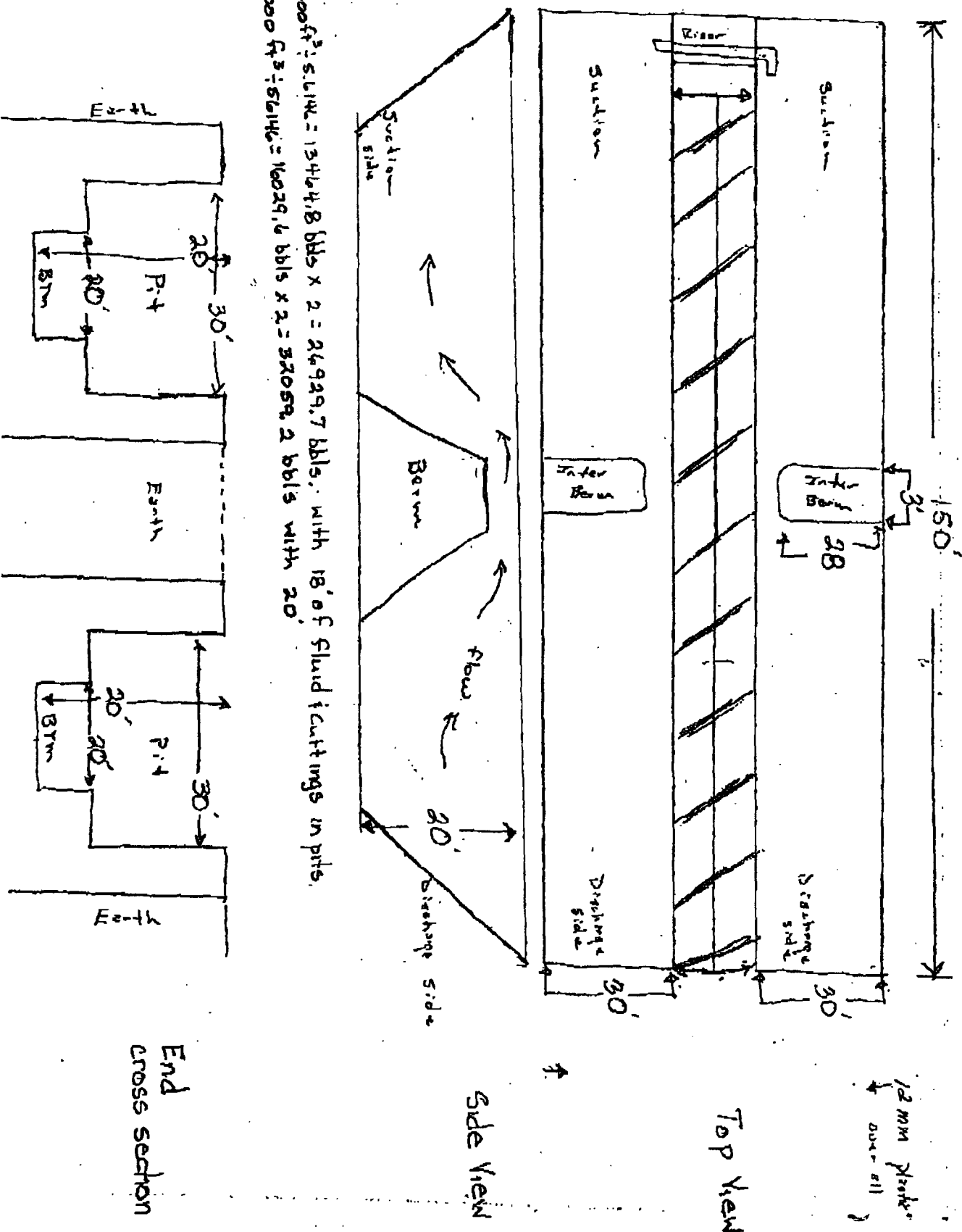


TITLE

PETROLEUM ENGINEER

DATE 3/11/05

Conditions of Approval (if any):



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 $2 \times 30' \times 140' = 90000 \text{ ft}^2 \div 5.614 = 16029.6 \text{ bbls} \times 2 = 32059.2 \text{ bbls}$  with 20'