

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-101
May 27, 2004

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

Submit to appropriate District Office

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address Chesapeake Operating, Inc. P. O. Box 18496 Oklahoma City, OK 73154-0496		² OGRID Number 147179
³ Property Code 300076		⁴ API Number 30-025-37171
⁵ Property Name Burrus "23"		⁶ Well No. 4
⁹ Proposed Pool 1 Trinity Wolf Camp		¹⁰ Proposed Pool 2 59890

⁷ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	23	12S	38E		2431	N	175	W	Lea

⁸ Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Additional Well Information

¹¹ Work Type Code N	¹² Well Type Code O	¹³ Cable/Rotary R	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 3801'
¹⁶ Multiple N	¹⁷ Proposed Depth 9300'	¹⁸ Formation Wolfcamp	¹⁹ Contractor Patterson 54	²⁰ Spud Date 04/01/2005
Depth to Groundwater		Distance from nearest fresh water well		Distance from nearest surface water
Pit: Liner: Synthetic <input type="checkbox"/> _____ miles thick Clay <input type="checkbox"/> Pit Volume: _____ bbls Drilling Method: _____				
Closed-Loop System <input type="checkbox"/> Fresh Water <input type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>				

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17-1/2	13-3/8	48#	425'	400	Surf
11"	8-5/8	24#	4500	1030	Surf
7-7/8	5-1/2	17#	9300	665	4000

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

Chesapeake Operating, Inc, proposes to drill to 9300' w/TD in the Wolfcamp Lime with Patterson as the drilling contractor.

Patterson's BOP stack is per attached schematics.

Permit Expires 1 Year From Approval
Date Unless Drilling Underway

N3L-5179

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines <input type="checkbox"/> , a general permit <input type="checkbox"/> , or an (attached) alternative OCD-approved plan <input type="checkbox"/> .		OIL CONSERVATION DIVISION	
Printed name: Lynda Townsend		Approved by: <i>Chris Williams</i>	
Title: Sr. Landman		Title:	
E-mail Address: ltownsend@chkenegy.com		Approval Date: APR 01 2005 Expiration Date:	
Date: 04/24/05	Phone: (405) 848-8000	Conditions of Approval Attached <input type="checkbox"/>	

DISTRICT I
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DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised March 17, 1999

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number <u>30-025-37171</u>	Pool Code 59890	Pool Name Trinity Wolf Camp ✓
Property Code <u>300076</u>	Property Name BURRIS "23"	Well Number 4
OGRID No. 147179	Operator Name CHESAPEAKE OPERATING INC.	Elevation 3801'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	23	12 S	38 E		2431	NORTH	175	WEST	LEA

Bottom Hole Location If Different From Surface

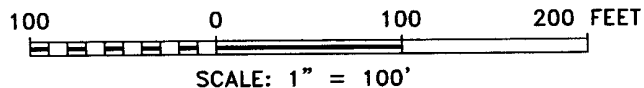
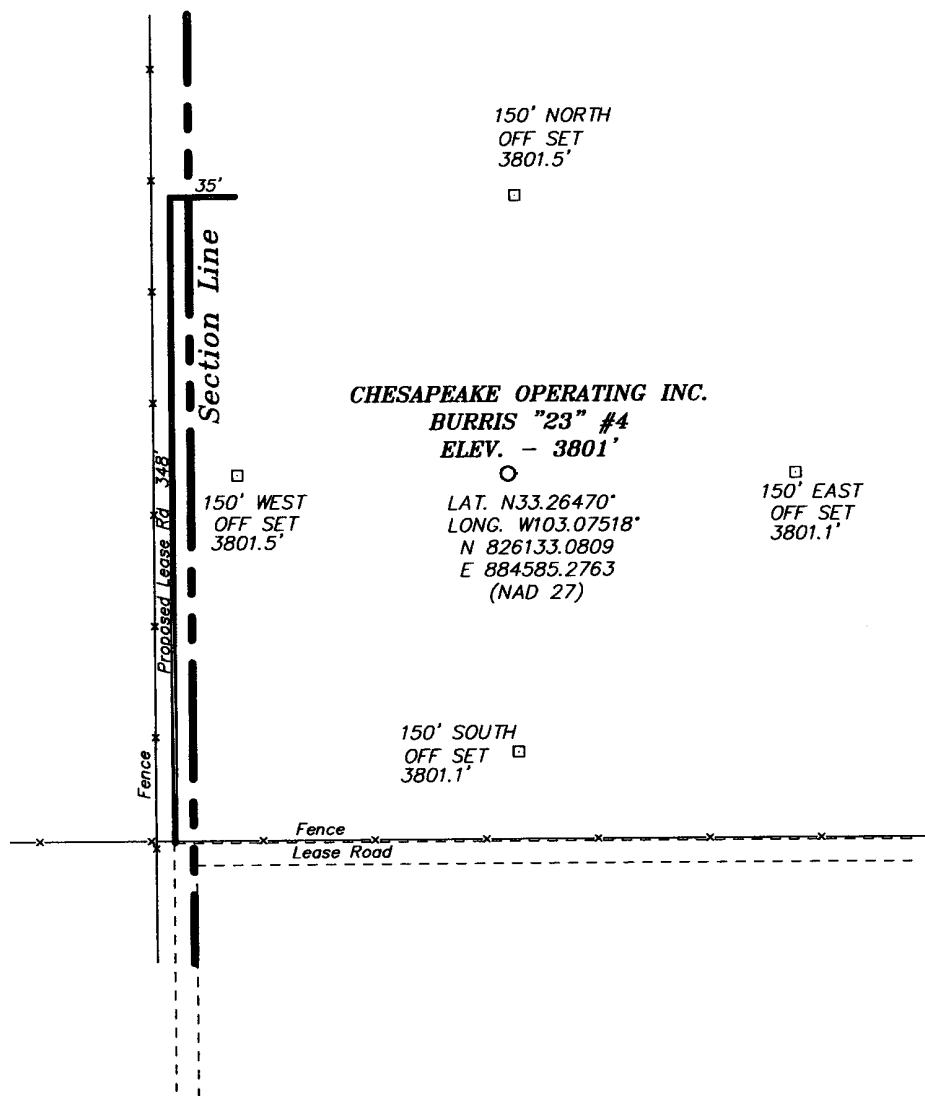
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres 40 SW NW	Joint or Infill	Consolidation Code	Order No. <u>NSL-5179</u>
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<p>2431'</p> <p>175'</p> <p>Lat.: N32.26470° Long.: W103.07518° (NAD 27)</p> <p>LOT 1 - 39.46 AC.</p> <p>LOT 2 - 38.57 AC.</p> <p>LOT 3 - 37.69 AC.</p> <p>LOT 4 - 36.80 AC.</p>	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Lynda Townsend</i> Signature</p> <p>Lynda Townsend Printed Name</p> <p>Senior Landman Title</p> <p>02/24/05 Date</p>	
	<p>SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>FEBRUARY 5, 2005 Date Signed</p> <p><i>W. L. JONES</i> Signature & Seal Professional Surveyor</p> <p>W.O. No. 5054</p> <p>Certificate No. 7977</p> <p>BASIN SURVEYS</p>	

SECTION 23, TOWNSHIP 12 SOUTH, RANGE 38 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.



Directions to Location:
FROM TATUM, GO EAST ON US HWY 380 FOR ±12.2
MILES TO MILE MARKER 241; THENCE NORTH ON
LEASE ROAD FOR 0.5 MILE TO PROPOSED ROAD.

CHESAPEAKE OPERATING INC.

REF: BURRIS "23" #4 / Well Pad Topo

BURRIS "23" No. 4 LOCATED 2431' FROM THE
NORTH LINE AND 175' FROM THE WEST LINE OF
SECTION 23, TOWNSHIP 12 SOUTH, RANGE 38 EAST,
N.M.P.M., LEA COUNTY, NEW MEXICO.

BASIN SURVEYS P.O. BOX 1786 - HOBBS, NEW MEXICO

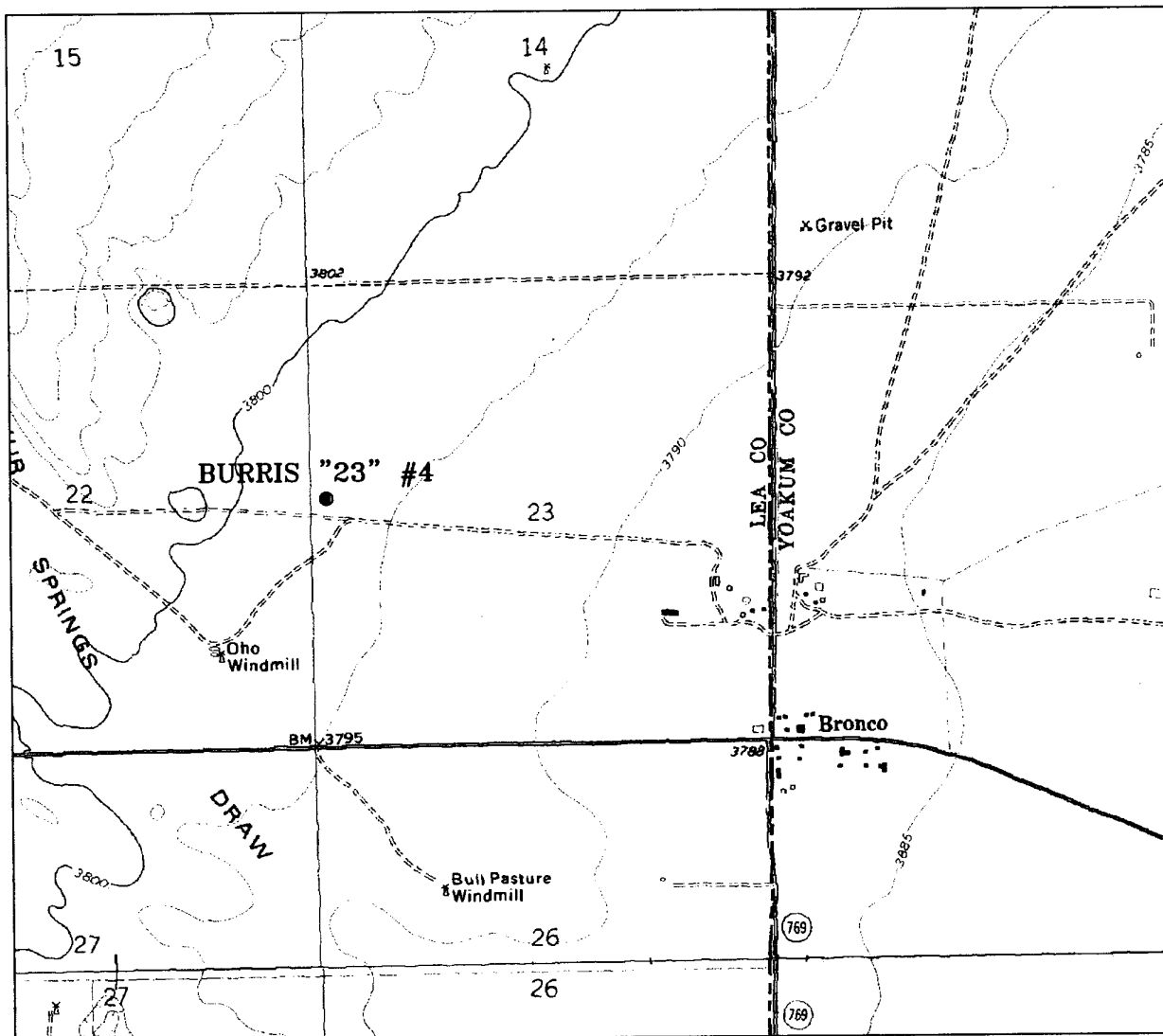
W.O. Number: 5054

Drawn By: K. GOAD

Date: 02-07-2005 Disk: KJG - 5054A.DWG

Survey Date: 02-05-2005

Sheet 1 of 1 Sheets



BURRIS "23" #4
 Located at 2431' FNL and 175' FWL
 Section 23, Township 12 South, Range 38 East,
 N.M.P.M., Lea County, New Mexico.

basin
surveys
 focused on excellence
 in the oilfield

P.O. Box 1786
 1120 N. West County Rd.
 Hobbs, New Mexico 88241
 (505) 393-7316 - Office
 (505) 392-3074 - Fax
 basinsurveys.com

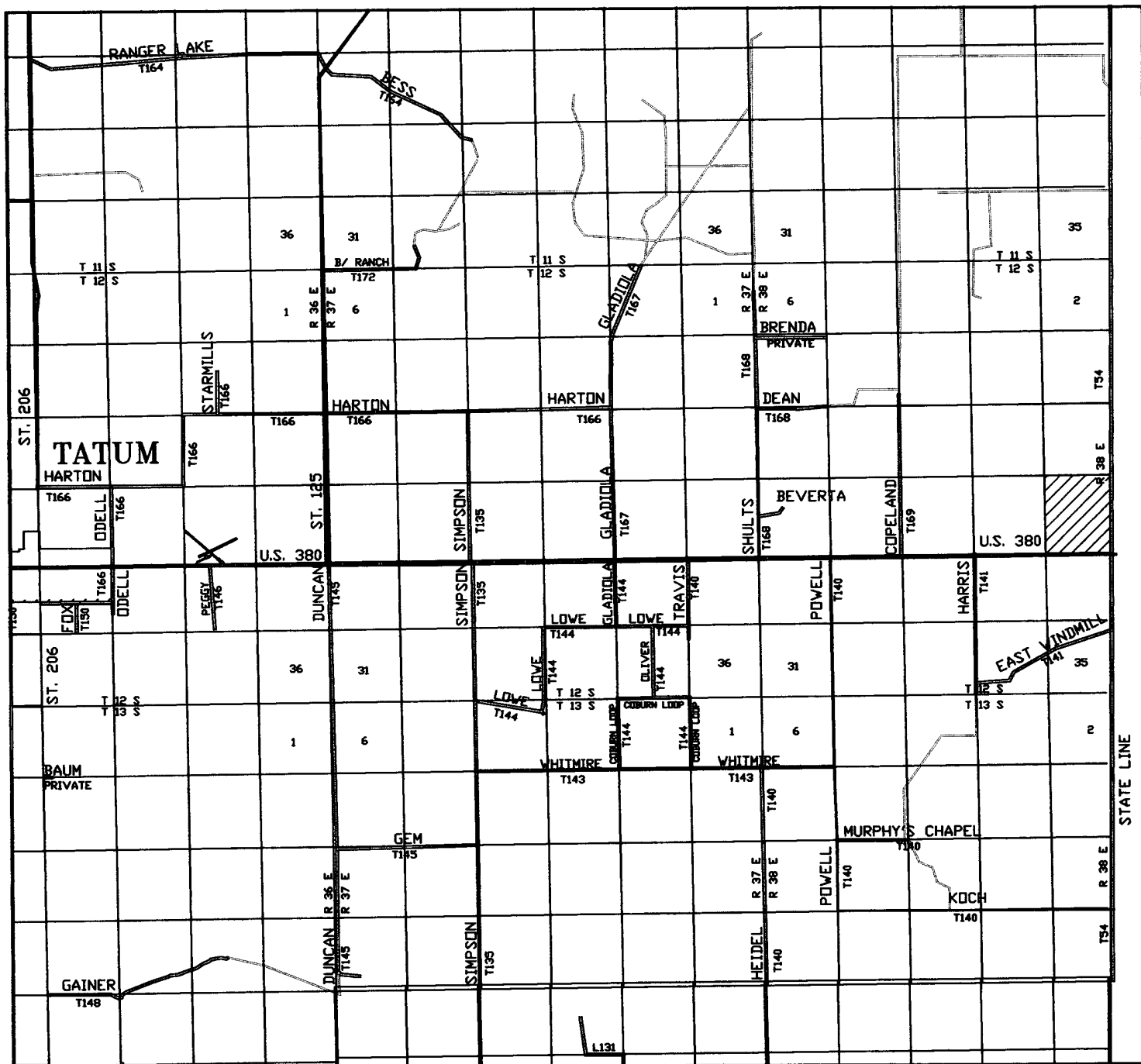
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Survey Date: 02-05-2005

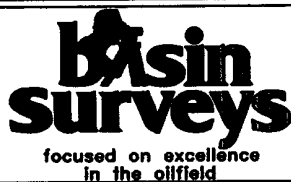
Scale: 1" = 2000'

Date: 02-07-2005

CHESAPEAKE
OPERATING
INC.



BURRIS "23" #4
 Located at 2431' FNL and 175' FWL
 Section 23, Township 12 South, Range 38 East,
 N.M.P.M., Lea County, New Mexico.



P.O. Box 1786
 1120 N. West County Rd.
 Hobbs, New Mexico 88241
 (505) 393-7316 - Office
 (505) 392-3074 - Fax
 basinsurveys.com

W.O. Number: 5054AA - KJG #1

Survey Date: 02-05-2005

Scale: 1" = 2 MILES

Date: 02-07-2005

**CHESAPEAKE
 OPERATING
 INC.**

BLOWOUT PREVENTOR SCHEMATIC

CHESAPEAKE OPERATING INC

WELL : Burrus 23-4

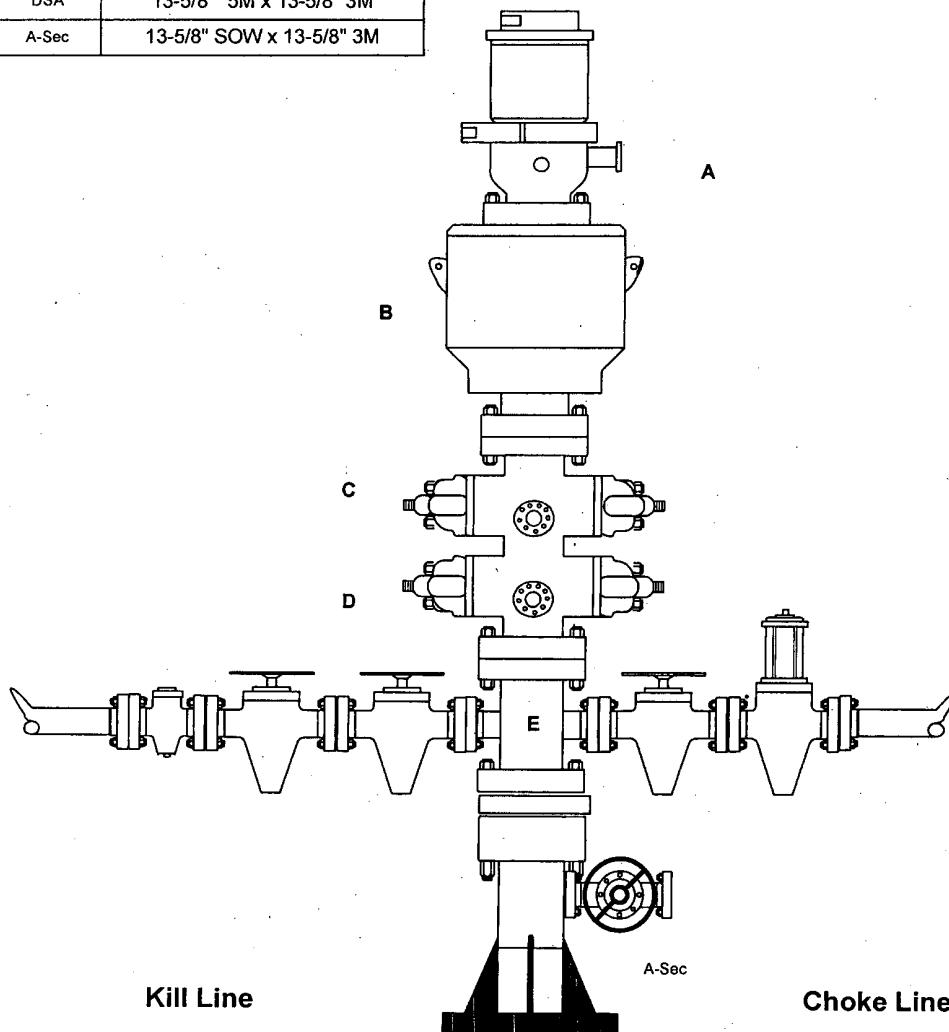
RIG : Patterson 504

COUNTY : Lea

STATE: New Mexico

OPERATION: Drill out below 13-3/8" Casing

SIZE	PRESSURE	DESCRIPTION
A 13-5/8"	500#	Rot Head
B 13-5/8"	5,000#	Annular
C 13-5/8"	5,000#	Pipe Rams
D 13-5/8"	5,000#	Blind Rams
E 13-5/8"	5,000#	Mud Cross
DSA	13-5/8" 5M x 13-5/8" 3M	
A-Sec	13-5/8" SOW x 13-5/8" 3M	



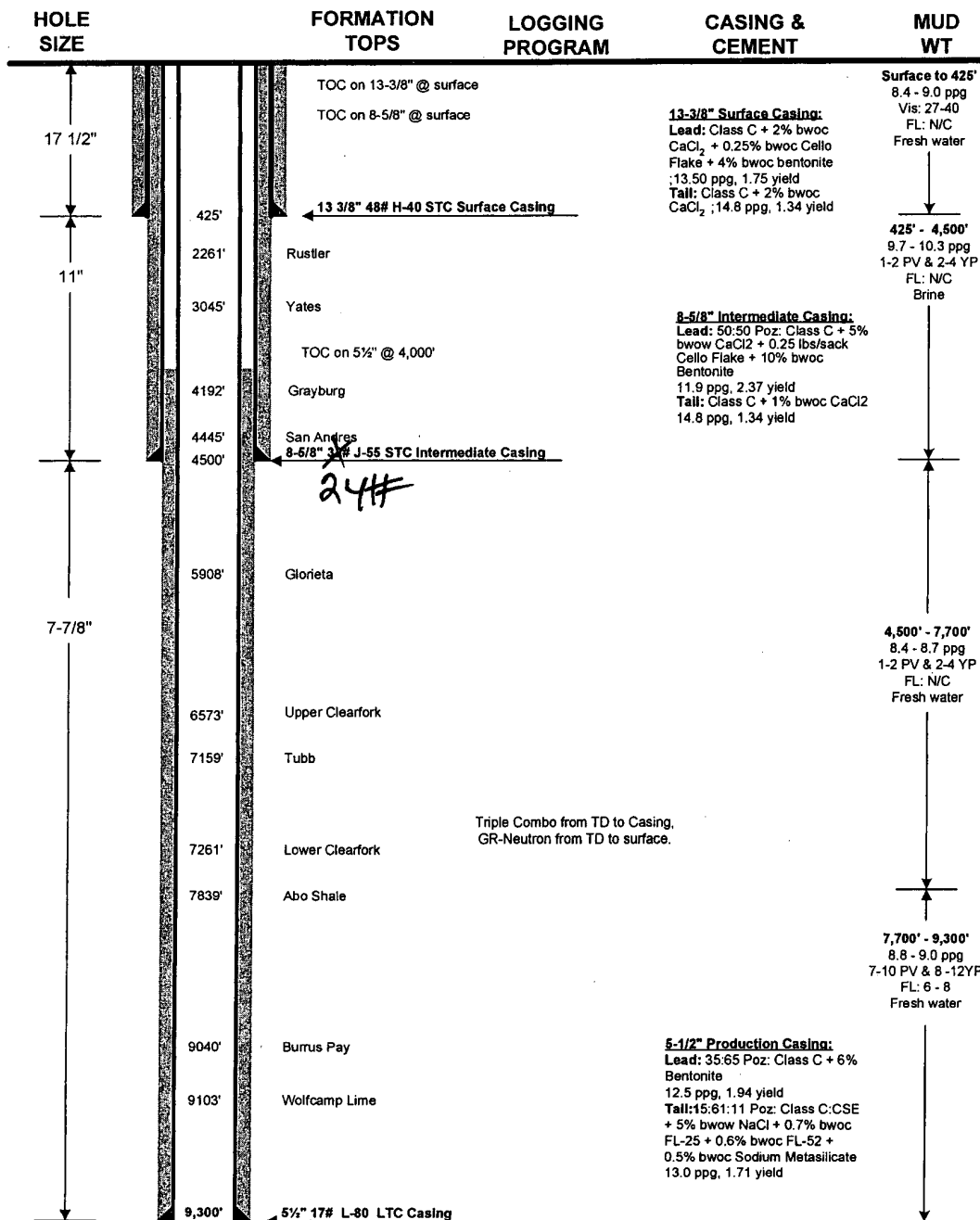
SIZE	PRESSURE	DESCRIPTION
2"	5,000#	Check Valve
2"	5,000#	Gate Valve
2"	5,000#	Gate Valve

SIZE	PRESSURE	DESCRIPTION
4"	5,000#	Gate Valve
4"	5,000#	HCR Valve

CHESAPEAKE OPERATING INC

DRILLING PROGNOSIS

WELL : Burrus 23 - 4
SHL : Section 23 - 12S - 38E
TARGET : 1,870' FNL & 330' FWL
COUNTY : Lea **STATE** : New Mexico
FIELD : Trinity (Wolfcamp)
ELEVATION : Est. GL - 3,792' **Est. KB** - 3,811'



PREPARED BY: DFD/AS
 APPROVED BY: _____

DATE: 02/03/05
 DATE: _____

Brenda Coffman

From: Auggie Setiadarma (Email)
Sent: Thursday, February 03, 2005 5:51 PM
To: Brenda Coffman
Cc: Auggie Setiadarma (Email)
Subject: Burrus 23-4, Lea County, NM



Burrus 23-4
WBS.pdf (25 KB)



Burrus 23-4
BOP.pdf (54 KB)

Location Change

Brenda,

These are for Burrus 23-4. Let me know if you need something else.

Thanks

Surface Casing:

245 sacks Class C Cement + 2% bwoc Calcium Chloride + 0.25% bwoc Cello Flake + 4% bwoc Bentonite

150 sacks Class C Cement + 2% bwoc Calcium Chloride

Intermediate Casing:

880 sacks (50:50) Poz (Fly Ash): Class C Cement + 5% bwow Sodium Chloride + 0.25 lbs/sack Cello Flake + 10% bwoc Bentonite

150 sacks Class C Cement + 1% bwoc Calcium Chloride

Production Casing:

230 sacks (35:65) Poz (Fly Ash): Class C Cement + 6% bwoc Bentonite

435 sacks (15:61:11) Poz (Fly Ash): Class C Cement: CSE + 5% bwow Sodium Chloride + 0.7% bwoc FL-25 + 0.6% bwoc FL-52 + 0.5%

bwoc Sodium Metasilicate

Auggie Setiadarma
Drilling Engineer
Chesapeake Energy Corp.
6100 N. Western Ave
Oklahoma City, OK 73118
405-7674343
Cell: 405-9904044

Submit 3 Copies To Appropriate District Office
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State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
May 27, 2004

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

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.)		WELL API NO.
1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
2. Name of Operator Chesapeake Operating, Inc.		6. State Oil & Gas Lease No.
3. Address of Operator P. O. Box 11050 Midland, TX 79702-8050		7. Lease Name or Unit Agreement Name Burrus 23 300076
4. Well Location Unit Letter E : 2431 feet from the North line and 175 feet from the West line Section 23 Township 12S Range 38E NMPM County Lea		8. Well Number 004
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3801 GR		9. OGRID Number 147179
Pit or Below-grade Tank Application <input checked="" type="checkbox"/> or Closure <input type="checkbox"/>		10. Pool name or Wildcat Trinity; Wolfcamp 59890
Pit type Drilling Depth to Groundwater 100+ Distance from nearest fresh water well 1000+ Distance from nearest surface water 1000+		
Pit Liner Thickness: 12 mil 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 ☐

OTHER: Pit

☒

SUBSEQUENT REPORT OF:

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

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, respectfully, requests that the attached procedure be approved for the drilling pit for this well. Chesapeake, hereby, agrees to close the pit according to NMOCD guidelines Section B



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 02/22/2005

Type or print name Brenda Coffman
For State Use Only

E-mail address: bcoffman@chkenergy.com Telephone No. (432)687-2992

APPROVED BY: Chris Williams

TITLE Dist. Supervisor

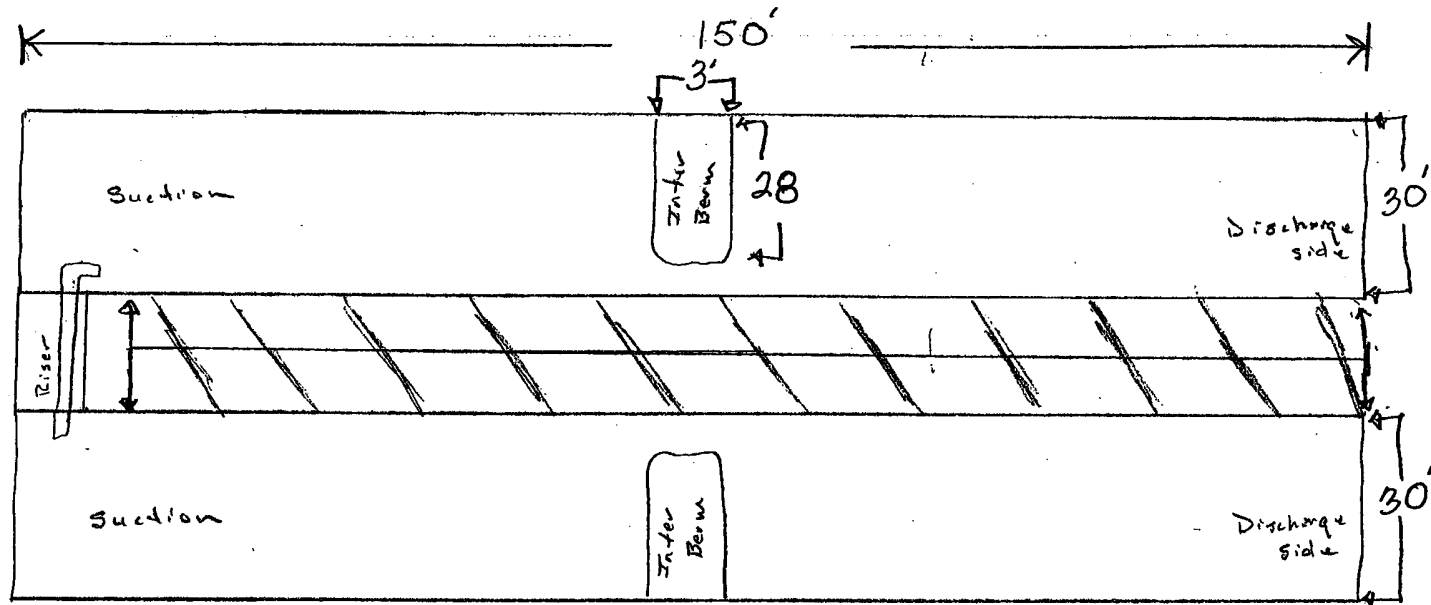
DATE APR 01 2005

Conditions of Approval (if any):

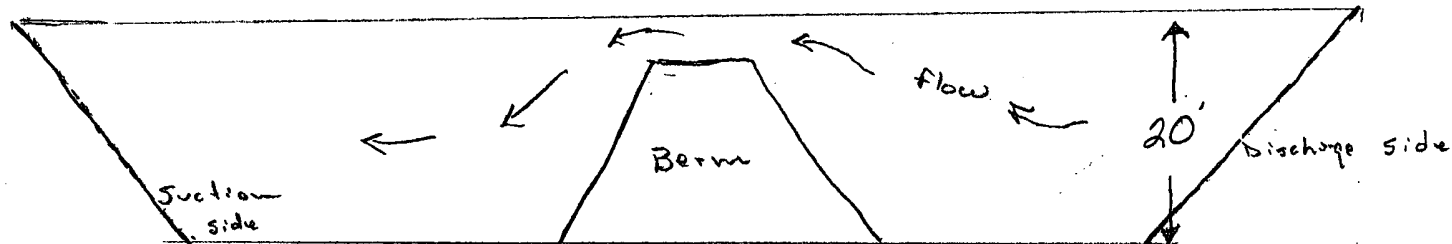
Chesapeake Energy

Double Pit

Guideline 3A

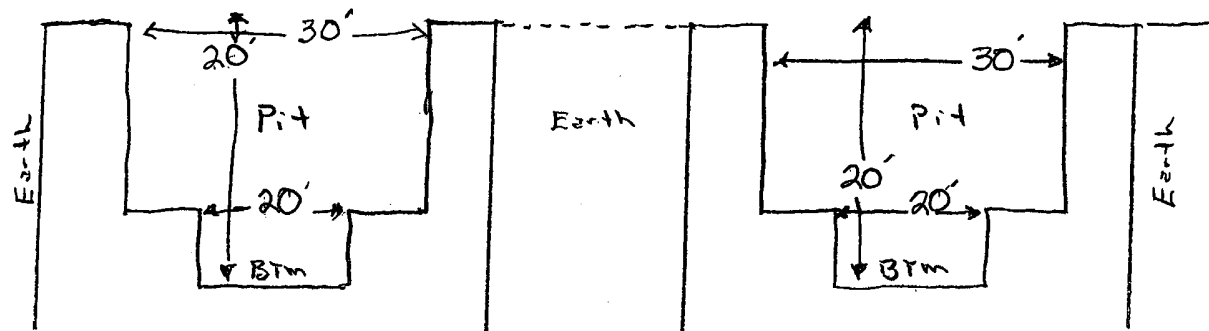


Top View



Side View

$18' \times 30' \times 140' = 75600 \text{ ft}^3 \div 5.6146 = 13464.8 \text{ bbls} \times 2 = 26929.7 \text{ bbls}$, with 18' of fluid & cuttings in pits.
 $20' \times 30' \times 140' = 90000 \text{ ft}^3 \div 5.6146 = 16029.6 \text{ bbls} \times 2 = 32059.2 \text{ bbls}$ with 20'



End cross section