

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  
Revised June 10, 2003

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

Submit to appropriate District Office  
State Lease - 6 Copies  
Fee Lease - 5 Copies

☐ AMENDED REPORT

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

<sup>1</sup> Operator Name and Address Chesapeake Operating, Inc. P. O. Box 18496 Oklahoma City, OK 73154-0496		<sup>2</sup> OGRID Number 147179
<sup>3</sup> Property Code 300072	<sup>4</sup> State 22	<sup>5</sup> API Number 30 - 025-36884
<sup>6</sup> Well No. 22-3		

<sup>7</sup> Surface Location									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	22	12S	38E		1645'	North	354'	East	Lea

<sup>8</sup> 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

<sup>9</sup> Proposed Pool 1 Trinity Wolfcamp Pool	<sup>10</sup> Proposed Pool 2
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<sup>11</sup> Work Type Code N	<sup>12</sup> Well Type Code O	<sup>13</sup> Cable/Rotary R	<sup>14</sup> Lease Type Code S
<sup>15</sup> Multiple N	<sup>16</sup> Proposed Depth 9800'	<sup>17</sup> Formation Harris	<sup>18</sup> Contractor Big Dog 13

<sup>21</sup> 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#	0-430'	± 400	Surface
11"	8-5/8	32#	0-4500'	± 1400	Surface
7-7/8	5-1/2	17#	0-9800'	± 700	4500'

<sup>22</sup> 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 a total depth of 9800' in the Harris pay using Big Dog 13 as the contractor.

The BOP should consist of 11" 3M# blind & pipe rams & 11" 3M# Annular (See Schematic)

**Permit Expires 1 Year From Approval**

**Date Unless Drilling Underway**

<sup>23</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature: *Lynda Townsend*

Printed name: Lynda Townsend

Title: Landman

E-mail Address: ltownsend@chkenenergy.com

Date: 09/15/04

Phone: (405) 848-8000

OIL CONSERVATION DIVISION

Approved by: *[Signature]*

Title: *PETROLEUM ENGINEER*

Approval Date: SEP 24 2004

Expiration Date:

Conditions of Approval:

Attached ☐

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

State of New Mexico

Form C-102

DISTRICT II  
1301 W. Grand Avenue, Artesia, NM 88210

Energy, Minerals, and Natural Resources Department

Revised August 15, 2000

Submit to Appropriate District Office

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

OIL CONSERVATION DIVISION

State Lease - 4 copies

Fee Lease - 3 copies

1220 South St. Francis Dr.

Santa Fe, New Mexico 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-025-36884	<sup>2</sup> Pool Code 59890	<sup>3</sup> Pool Name Trinity Wolfcamp
<sup>4</sup> Property Code 300072	<sup>5</sup> Property Name STATE "22"	<sup>6</sup> Well Number 3
<sup>7</sup> OGRID No. 14779	<sup>8</sup> Operator Name CHESAPEAKE OPERATING	<sup>9</sup> Elevation 3798'

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	22	12 SOUTH	38 EAST, N.M.P.M.		1653'	NORTH	354'	EAST	LEA

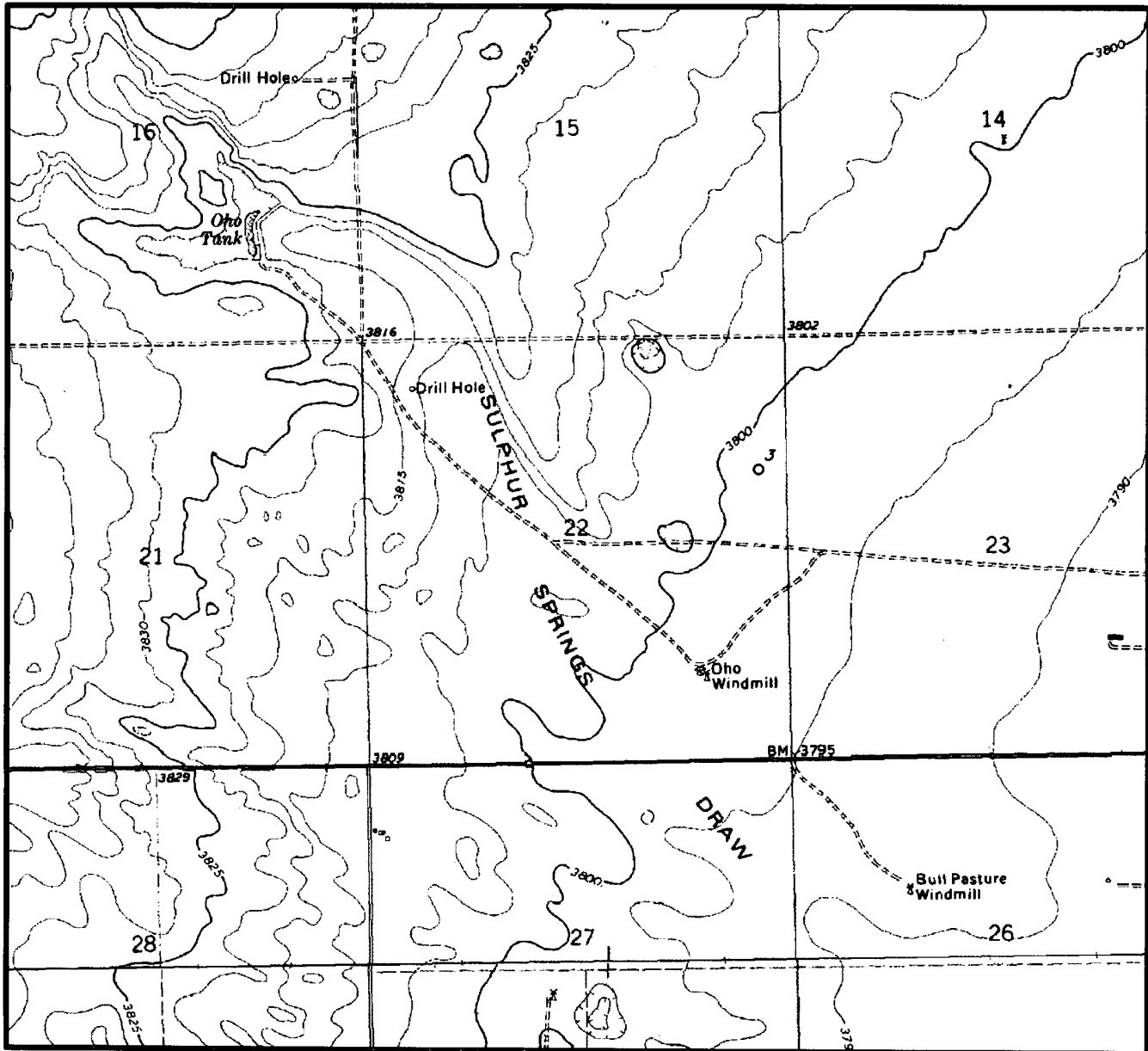
<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<sup>12</sup> Dedicated Acres 40	<sup>13</sup> Joint or Infill Y	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.						

NO ALLOWABLE WELL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<div><p><sup>16</sup></p><p>NAD 27 NME ZONE X = 884046 Y = 826891 LAT.: N = 33°16'00" LONG.: W = 103°04'37"</p><p>1653' 914' 354'</p></div>	<div><p><sup>17</sup> OPERATOR CERTIFICATION</p><p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p><p><i>Lynda F. Townsend</i> Signature Lynda F. Townsend Printed Name Senior Landman Title 9-16-04 Date</p><p><sup>18</sup> 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>SEPTEMBER 16, 2004 Date of Survey</p><p><i>V. Lynn Bezner</i> Signature and Seal of Professional Surveyor</p><p>STATE OF NEW MEXICO V. LYNN BEZNER NO. 7920 PROFESSIONAL LAND SURVEYOR</p><p>Certificate Number V. L. BEZNER R.P.S. #7920 JOB #97277-2 / 145 SE / JCP</p></div>
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# LOCATION & ELEVATION VERIFICATION MAP



SCALE : 1" = 2000' CONTOUR INTERVAL 5'

SECTION 22 TWP 12-S RGE 38-E  
 SURVEY NEW MEXICO PRINCIPAL MERIDIAN  
 COUNTY LEA STATE NM  
 DESCRIPTION 1645' FNL & 354' FEL  
 ELEVATION 3798'

OPERATOR CHESAPEAKE OPERATING  
 LEASE STATE 22" #3

U.S.G.S. TOPOGRAPHIC MAP  
BRONCO, NEW MEXICO - TEXAS

LAT. N 33°16'01"  
 LONG. W 103°04'37"



## TOPOGRAPHIC LAND SURVEYORS

*Surveying & Mapping for the Oil & Gas Industry*

This location has been very carefully staked on the ground according to the best official survey records, maps, and other data available to us.

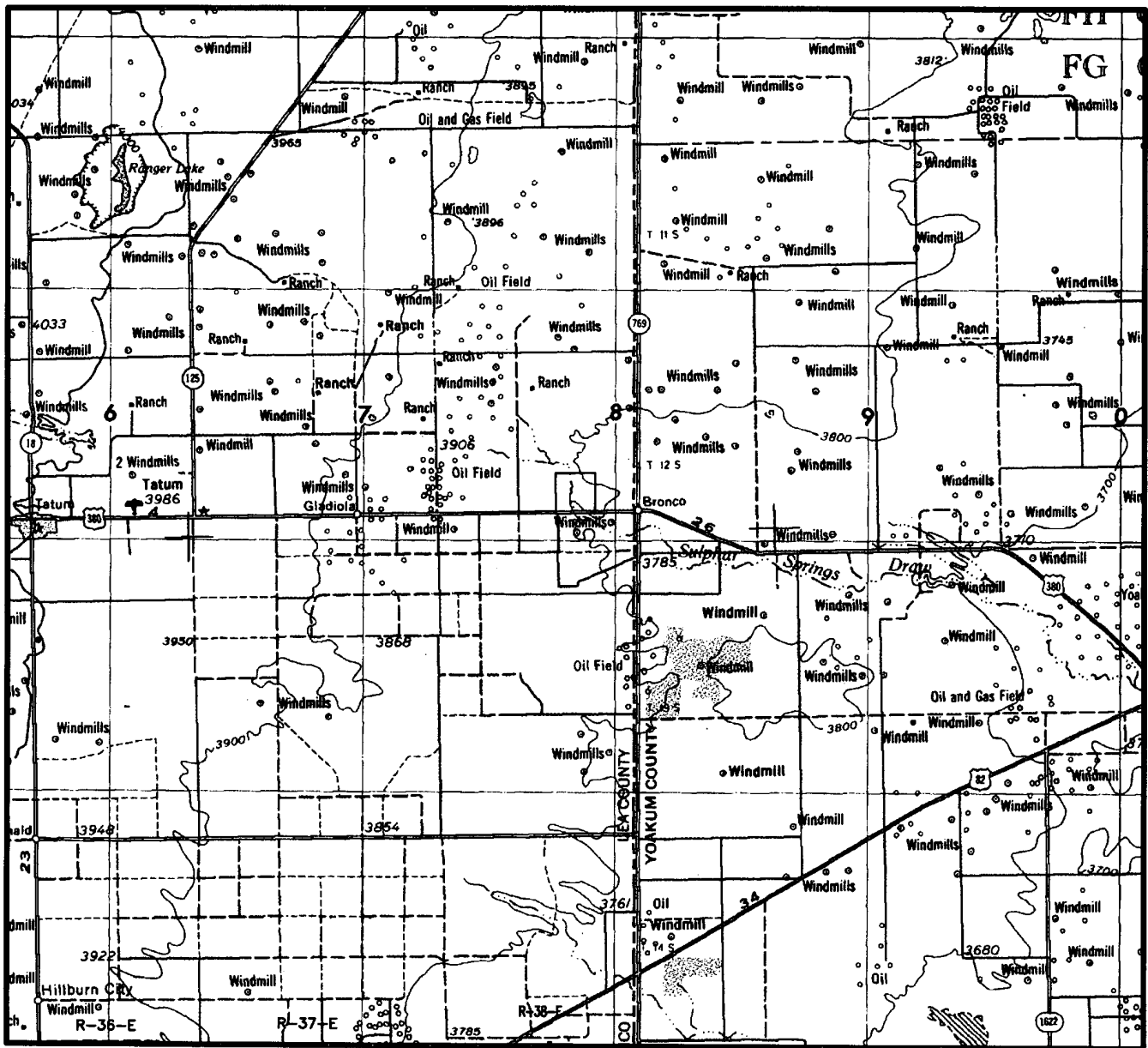
Review this plat and notify us immediately of any possible discrepancy.

1307 N. HOBART  
 PAMPA, TX. 79065  
 (800) 658-6382

6709 N. CLASSEN BLVD.  
 OKLAHOMA CITY, OK. 73116  
 (800) 654-3219

2903 N. BIG SPRING  
 MIDLAND, TX. 79705  
 (800) 767-1653

# VICINITY MAP



SECTION 22 TWP 12-S RGE 38-E  
 SURVEY NEW MEXICO PRINCIPAL MERIDIAN  
 COUNTY LEA STATE NM  
 DESCRIPTION 1645' FNL & 354' FEL

OPERATOR CHESAPEAKE OPERATING  
 LEASE STATE "22" #3

DISTANCE & DIRECTION FROM BRONCO, GO WEST 1.0 MILE  
ON HW 380 TO THE SOUTHEAST CORNER OF SECTION 22.

## TOPOGRAPHIC LAND SURVEYORS

*Surveying & Mapping for the Oil & Gas Industry*

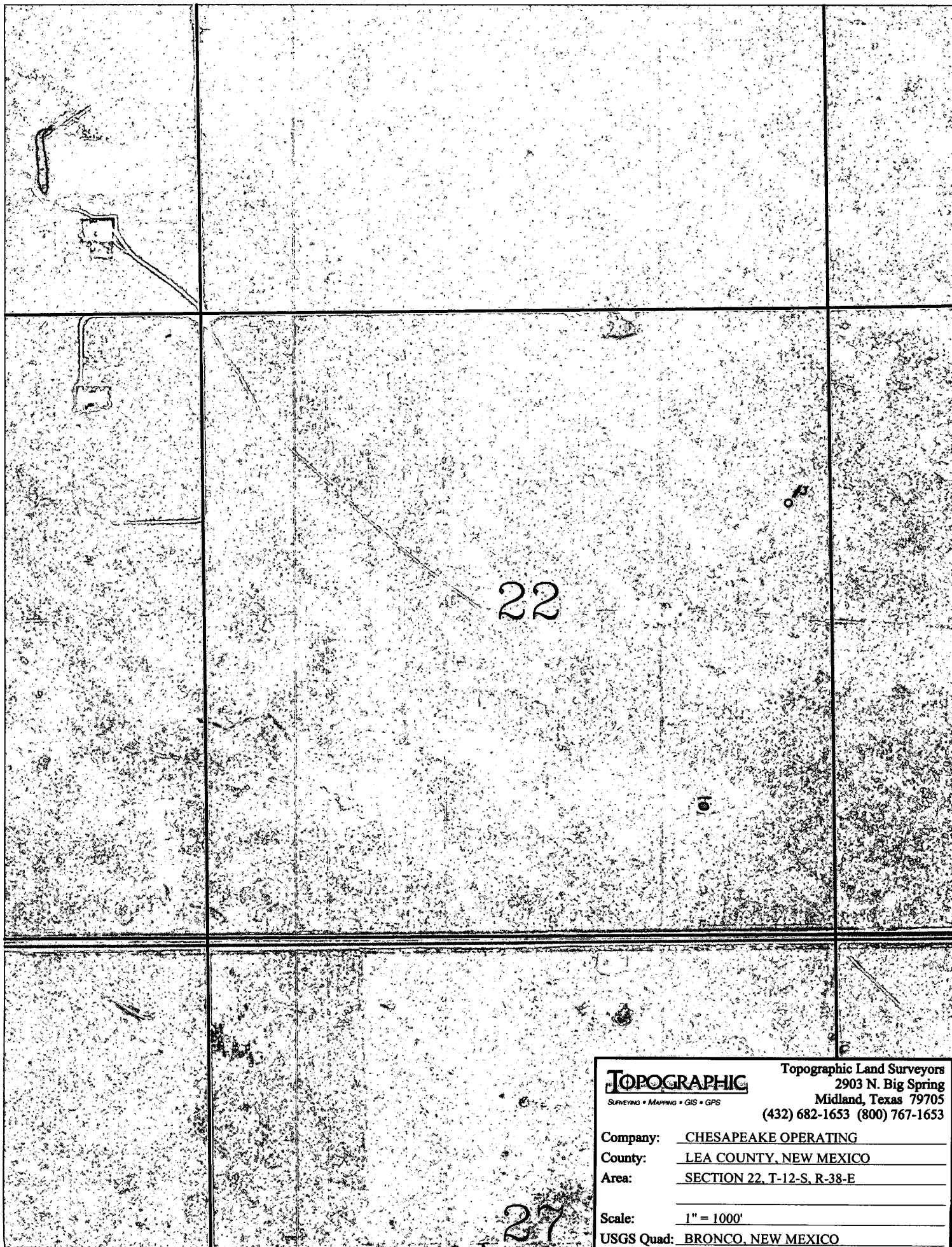
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Review this plat and notify us immediately of any possible discrepancy.

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 (800) 767-1653



**TOPOGRAPHIC**  
SURVEYING • MAPPING • GIS • GPS

Topographic Land Surveyors  
2903 N. Big Spring  
Midland, Texas 79705  
(432) 682-1653 (800) 767-1653

Company: CHESAPEAKE OPERATING  
County: LEA COUNTY, NEW MEXICO  
Area: SECTION 22, T-12-S, R-38-E  
Scale: 1" = 1000'  
USGS Quad: BRONCO, NEW MEXICO

**BLOWOUT PREVENTOR SCHEMATIC**  
**CHESAPEAKE OPERATING INC**

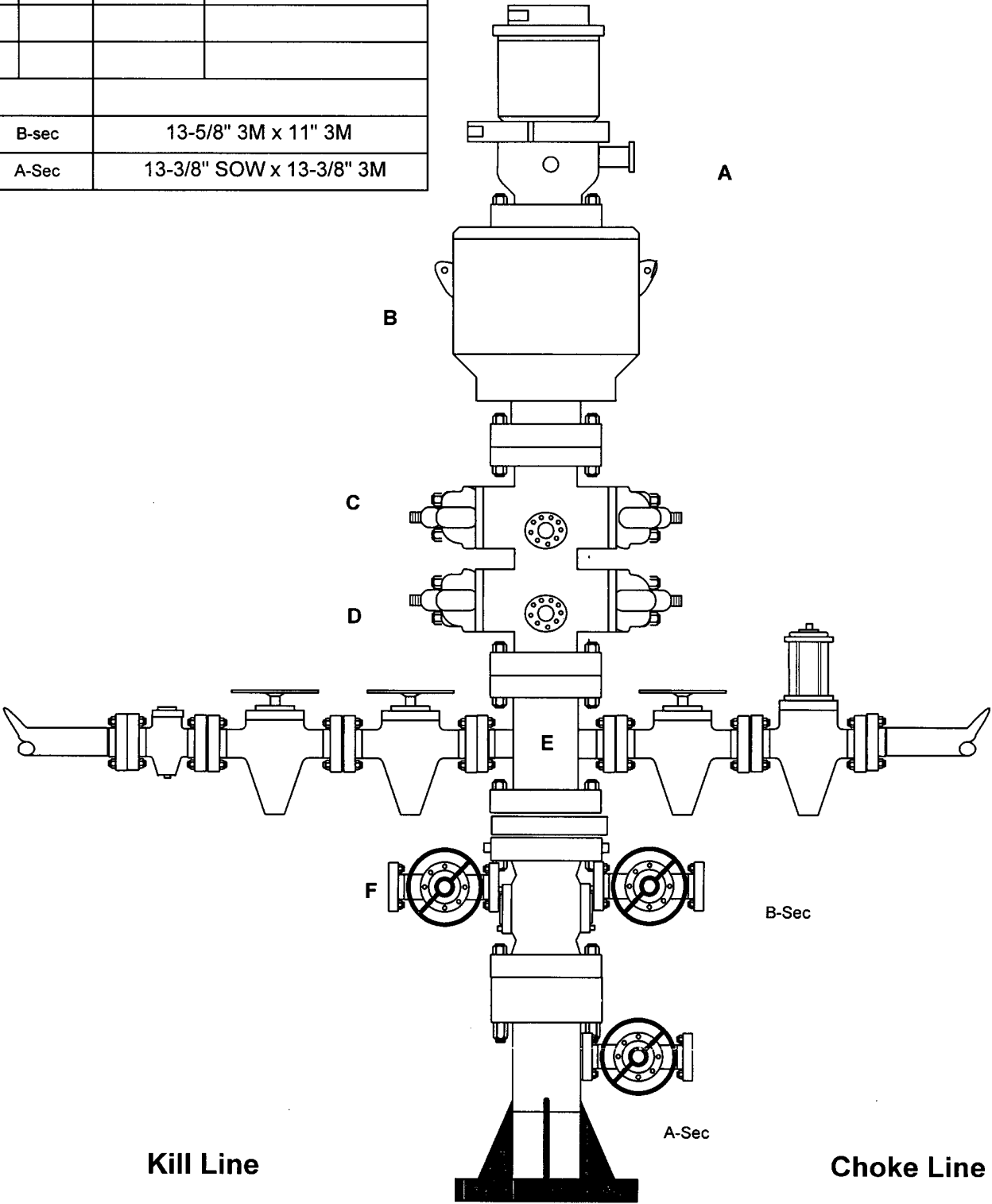
WELL : State 22 # 3

RIG : Big Dog 13

COUNTY : Lea STATE: New Mexico

OPERATION: Drill out below 8-5/8" Casing

SIZE		PRESSURE	DESCRIPTION
A	11"	3,000#	Rot Head
B	11"	3,000#	Annular
C	11"	3,000#	Pipe Rams
D	11"	3,000#	Blind Rams
E	11"	3,000#	Mud Cross
B-sec		13-5/8" 3M x 11" 3M	
A-Sec		13-3/8" SOW x 13-3/8" 3M	



SIZE	PRESSURE	DESCRIPTION
2"	3,000#	Check Valve
2"	3,000#	Gate Valve
2"	3,000#	Gate Valve

SIZE	PRESSURE	DESCRIPTION
4"	3,000#	Gate Valve
4"	3,000#	HCR Valve

**BLOWOUT PREVENTOR SCHEMATIC**  
**CHESAPEAKE OPERATING INC**

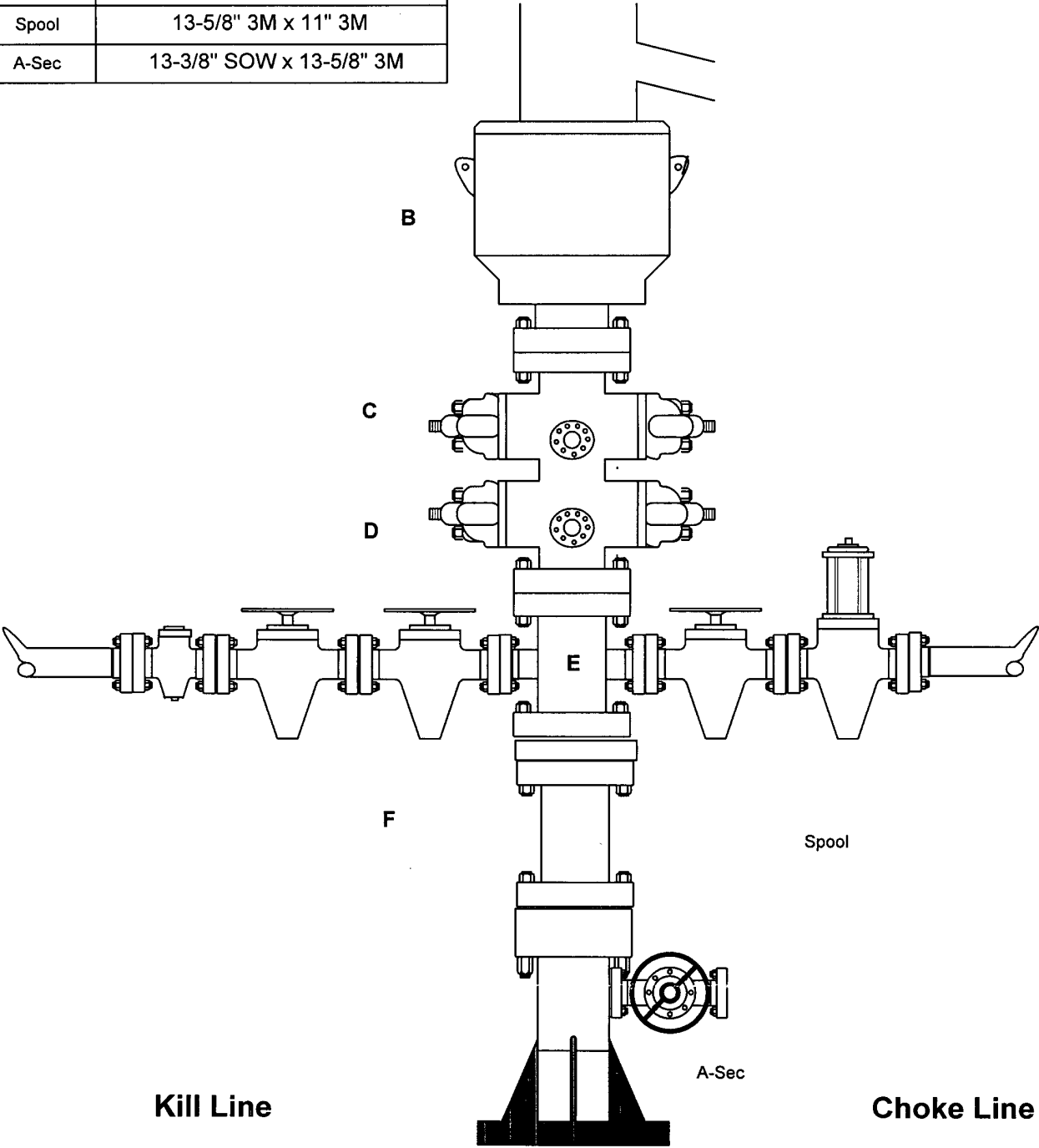
WELL : State 22-3

RIG : Big Dog 13

COUNTY : Lea STATE: New Mexico

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

SIZE		PRESSURE	DESCRIPTION
B	11"	3,000#	Annular
C	11"	3,000#	Pipe Rams
D	11"	3,000#	Blind Rams
E	11"	3,000#	Mud Cross
Spool		13-5/8" 3M x 11" 3M	
A-Sec		13-3/8" SOW x 13-5/8" 3M	



SIZE	PRESSURE	DESCRIPTION
2"	3,000#	Check Valve
2"	3,000#	Gate Valve
2"	3,000#	Gate Valve

SIZE	PRESSURE	DESCRIPTION
4"	3,000#	Gate Valve
4"	3,000#	HCR Valve

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State of New Mexico  
Energy Minerals and Natural Resources

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

Form C-144  
June 1, 2004

For drilling and production facilities, submit to appropriate NMOCD District Office.  
For downstream facilities, submit to Santa Fe office

**Pit or Below-Grade Tank Registration or Closure**

Is pit or below-grade tank covered by a "general plan"? Yes ☐ No ☐  
Type of action: Registration of a pit or below-grade tank ☐ Closure of a pit or below-grade tank ☐

Operator: Chesapeake Operating, Inc. Telephone: (432)685-4310 e-mail address: bcoffman@chkenergy.com	
Address: P. O. Box 11050 Midland, TX 79702-8050	
Facility or well name: State 22 #3	API#: 30-025-36884
County: Lea	Latitude Longitude NAD: 1927 <input type="checkbox"/> 1983 <input type="checkbox"/> Surface Owner Federal <input type="checkbox"/> State <input checked="" type="checkbox"/> Private <input type="checkbox"/> Indian <input type="checkbox"/>
<b>Pit</b> Type: Drilling <input checked="" type="checkbox"/> Production <input type="checkbox"/> Disposal <input type="checkbox"/> Workover <input type="checkbox"/> Emergency <input type="checkbox"/> Lined <input checked="" type="checkbox"/> Unlined <input type="checkbox"/> Liner type: Synthetic <input checked="" type="checkbox"/> Thickness 12 mil Clay <input type="checkbox"/> Pit Volume 15948 bbl	
<b>Below-grade tank</b> Volume: _____ bbl Type of fluid: _____ Construction material: _____ Double-walled, with leak detection? Yes <input type="checkbox"/> If not, explain why not. _____	
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet (20 points) 50 feet or more, but less than 100 feet (10 points) 100 feet or more (0 points) <u>0</u>
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes (20 points) No (0 points) <u>0</u>
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet (20 points) 200 feet or more, but less than 1000 feet (10 points) 1000 feet or more (0 points) <u>0</u>
Ranking Score (Total Points) 0	

If this is a pit closure: (1) attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if you are burying in place) onsite ☐ offsite ☐ If offsite, name of facility \_\_\_\_\_ (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☐ Yes ☐ If yes, show depth below ground surface \_\_\_\_\_ ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments:

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

Printed Name/Title Brenda Coffman Regulatory Analyst Signature \_\_\_\_\_

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval:

Printed Name/Title

Regulatory Analyst

Signature

Brenda Coffman

Date:

9-24-04

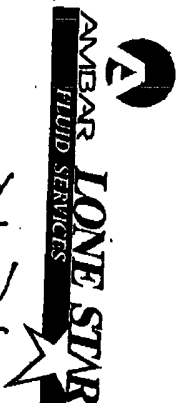
Paul Blatz 9/24/04

PETROLEUM ENGINEER



MIDLAND, TX  
OKLAHOMA CITY, OK  
VICTORIA, TX

(915) 684-7446  
(405) 810-0021  
(361) 578-5287



HOUSTON, TX  
LAFAYETTE, LA  
NEW ORLEANS, LA

(281) 877-1200  
(337) 237-5300  
(504) 566-0411

Subject Chesapeake Operating, Inc

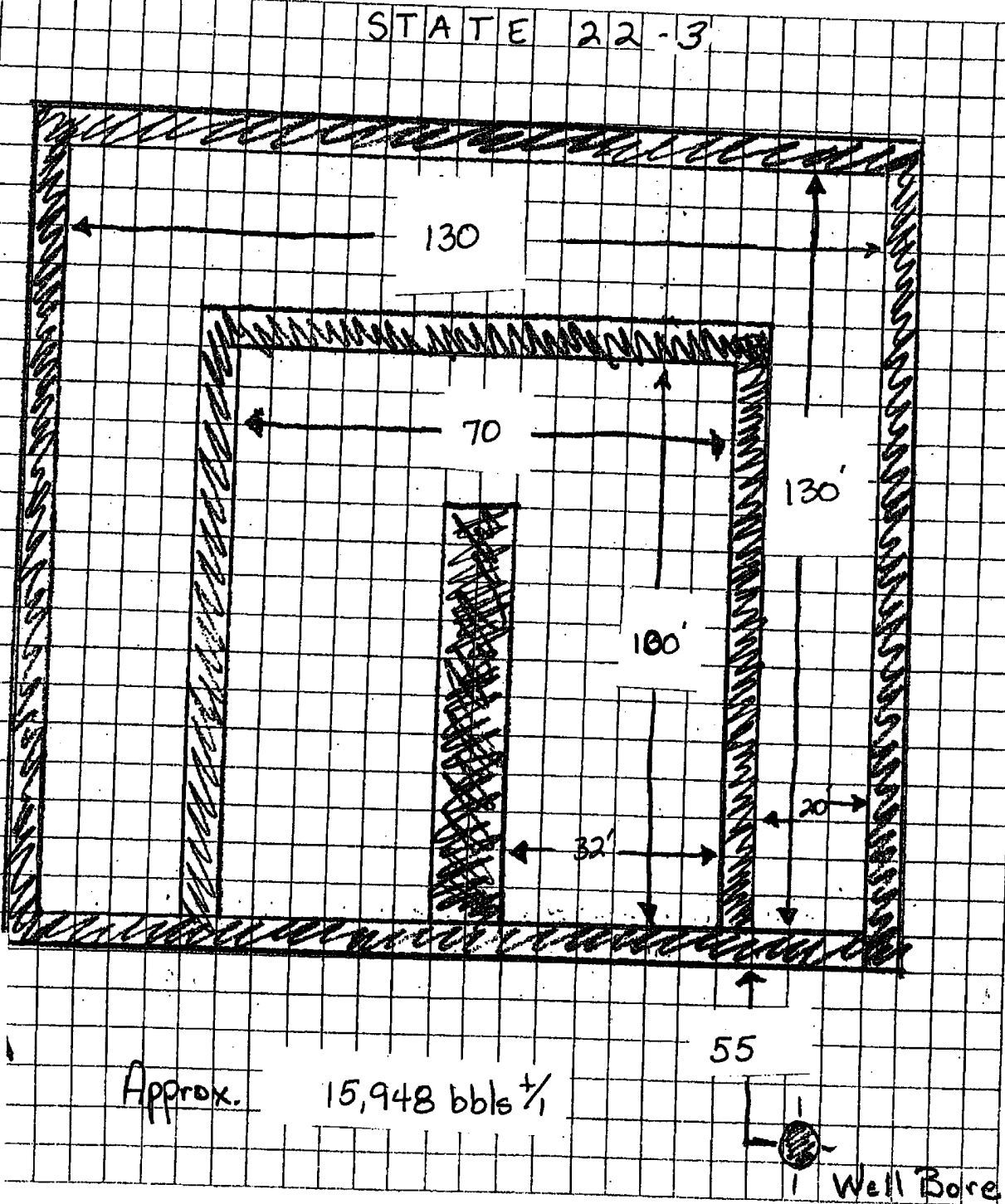
Dwg. P.I.T

Page No.

of

By N. Newland

Date



# WALL BERMS DRLG PIT

## STATE 22-3

SEP-24-04 FRI 01:32 PM FROM:432 685 4399

TO:

