

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK
DRILL ☒ DEEPEN ☐

b. TYPE OF WELL
OIL WELL ☐ GAS WELL ☒ OTHER ☐ SINGLE ZONE ☐ MULTIPLE ZONE ☐

2. NAME OF OPERATOR
Dominion Oklahoma Texas Exploration & Production, Inc.

3. ADDRESS AND TELEPHONE NO.
14000 Quail Springs Parkway, Suite 600, Oklahoma City, OK 73134

4. LOCATION OF WELL (Report location clearly and in accordance with any state requirements.)
At surface: UL J, 2030' FSL & 1650' FEL
At proposed prod. zone: Secretary's Potash

5. LEASE DESCRIPTION AND SERIAL NO.
NM - 105892

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME, WELL NO.
Bootleg "11" Federal Com 1

9. API NUMBER
30-025-36265

10. FIELD AND POOL, OR WILDCAT
Bootleg Ridge; Morrow

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
11-22S-32E

12. COUNTY OR PARISH
Lea

13. STATE
NM

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE
35 miles Southwest of Hobbs, New Mexico

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drg. unit line, if any)
1650

16. NO. OF ACRES IN LEASE
320

17. NO. OF ACRES ASSIGNED TO THIS WELL
320

18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
NA

19. PROPOSED DEPTH
15,200'

20. ROTARY OR CABLE TOOLS
R

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
3700' Carbide Controlled Water Basin

22. APPROX. DATE WORK WILL START
01-Mar-03

PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8" J-55 ST&C	54.5#	925'	725 sx 35:65 Poz Class C
12 1/4"	9 5/8" J-55 LT&C	36#	4,725'	1,230 sx 50:50 Poz Class C
8 3/4"	7" N-80/S-95	23#	12,200'	825 sx Class H/35:65 Poz
6 1/4"	4 1/2" P-110	13.5#	15,200'	315 sx Class H

1. Drill 17 1/2" hole to \pm 925'. Set 13 3/8" J-55 ST&C, 54.5# csg at \pm 925'. Cement w/725 sx 35:65 Poz Class C.
2. Drill 12 1/4" hole to \pm 4,725'. Set 9 5/8", J-55 LT&C, 36# csg at \pm 4,725'. Cement w/1,230 sx 50:50 Poz Class C.
3. Drill 8 3/4" hole to \pm 12,200'. Set 7", N-80/S-95, 23# csg at \pm 12,200'. Cement w/825 sx Class H/35:65 Poz.
4. Drill 6 1/4" hole to \pm 15,200'. Set 4 1/2", P-110, 13.5# csg at \pm 15,200'. Cement w/315 sx Class H.

See Attached BOP program.

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Carla Christian TITLE Regulatory Specialist DATE 02/05/03

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease with CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY William S. Condit ACTING STATE DIRECTOR

DATE

APR 15 2003

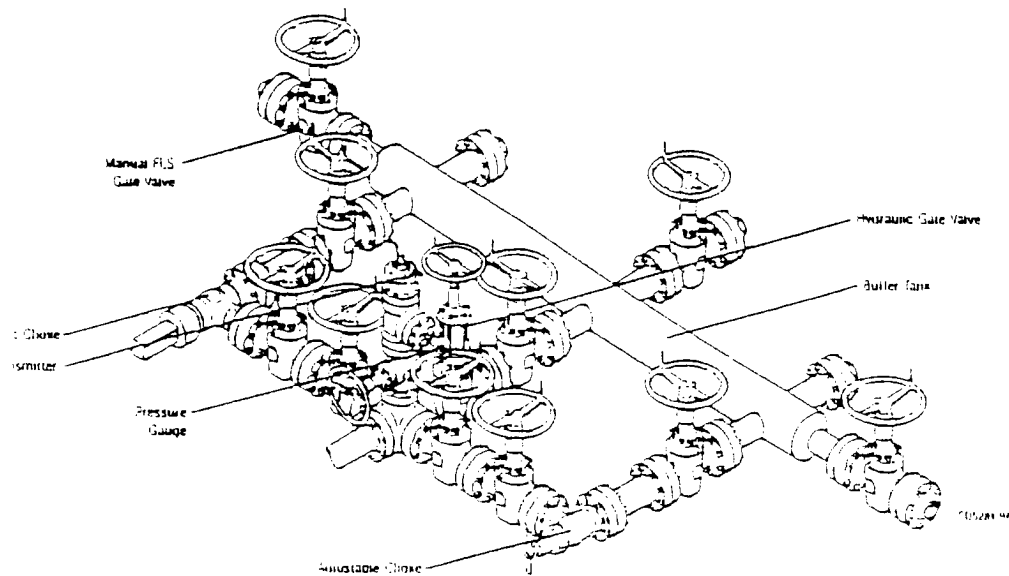
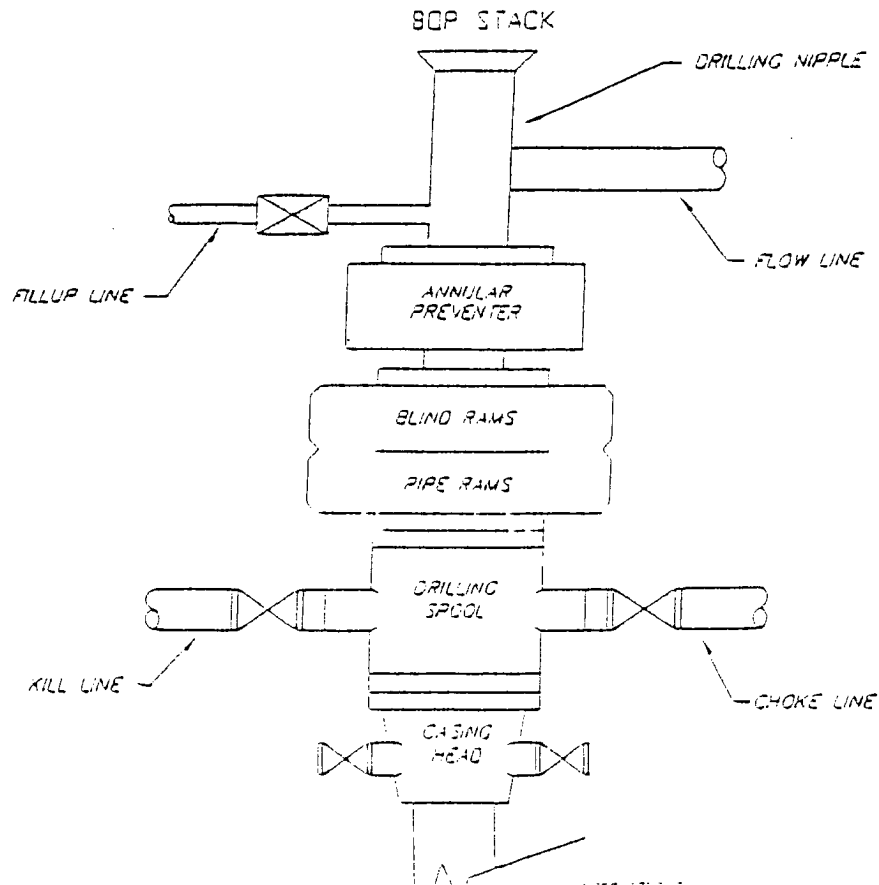
*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

APPROVAL FOR 1 YEAR

Exhibit 6

TYPICAL 5,000 p.s.i. BLOWOUT PREVENTER & CHOKE MANIFOLD SCHEMATIC



Typical Choke Manifold Designed for Land Drilling Applications



February 5, 2003

United States Department of the Interior
Bureau of Land Management
Roswell District Office
2909 West Second Street
Roswell, New Mexico 88201

Re: Application for Permit to Drill
Dominion Oklahoma Texas E&P, Inc.
Bootleg 11 Fed Com 1
Lea County, New Mexico
Federal Lease NM – 14332, NM – 108043 and NM - 105892

Gentlemen:

Dominion Oklahoma Texas E&P, Inc. respectfully requests permission to drill our Bootleg 11 Fed Com 1 located 2030 FSL and 1650 FEL of Section 11-T22S-R32E, Lea County, New Mexico, Federal Lease NM-14332, NM-108043 and NM-105892. The proposed well will be drilled to a TVD of approximately 15,200'. The location and work area have been staked approximately 35 miles Southwest of Hobbs, New Mexico.

In accordance with requirements stipulated in Federal Onshore Oil and Gas Order No. 1 under 43 CFR 3162.1, our Application for Permission to Drill and supporting evidence is hereby submitted.

1. Application for Permit to Drill:

1. Form 3160.3, Application for Permit to Drill
2. Form C-102 Location and Acreage Dedication Plat certified by Gary L. Jones, Registered Land Surveyor No. 7977 in the State of New Mexico, dated January 29, 2003.
3. The elevation of the unprepared ground is 3700 feet above sea level.
4. The geologic name of the surface formation is Rustler.
5. Rotary drilling equipment will be utilized to drill the well to TD 15,200' (TVD), and run casing. This equipment will then be rigged down and the well will be completed with a pulling unit.
6. Proposed total depth is 15,200' TVD.
7. Estimated tops of important geologic markers:

Rustler	900' TVD
Salado	1,050' TVD

Castile	2,800'	TVD
Lamar Lime	4,750'	TVD
Delaware	4,850'	TVD
Bone Spring	8,725'	TVD
Wolfcamp	11,950'	TVD
Strawn	13,475'	TVD
Atoka	13,625'	TVD
Upper Morrow	14,125'	TVD
Middle Morrow	14,450'	TVD
Lower Morrow	14,850'	TVD

8. Estimated depths at which anticipated water, oil, gas or other mineral bearing formations are expected to be encountered:

Primary Objective: Upper & Middle Morrows 14,125' TVD

9. The proposed casing program is as follows:

Surface: 13 3/8" 54.5# J-55 ST&C casing set from 0-925'

Intermediate: 9 5/8" 36# J-55 LT&C casing set from 0-4,725'.

2nd Intermediate: 7" 23&26# N-80/S-95 casing set from 0-12,200' TVD.

Production Liner: 4 1/2" 13.5# P-110 FL-45 set at 15,200' TVD.

10. Casing setting depth and cementing program:

- a. 13-3/8" surface casing set at 925' in 17 1/2" hole. Circulate cement to surface. Cement w/Lead of 525 sx. (35:65) Poz: Class C cmt + 2% bwoc Calcium Chloride + 0.25 lbs./sk Cello Flake + 6% bwoc Bentonite + 106.5% Fresh Water, weight 12.40 ppg, yield 2.01 cf/sk. Tail w/200 sk Class C cmt + 2% bwoc Calcium Chloride + 56.4% Fresh Water, weight 14.80 ppg, yield 1.34 cf/sk.
- b. 9-5/8" 36# casing set at 4,725' in 12 1/4" hole. A fluid caliper will be ran to determine exact cement volume required. Cement will be circulated to surface w/Lead of 980 sks (50:50) Poz: Class C cmt + 5% bwow Sodium Chloride + 0.25 lbs/sk Cello Flake + 10% bwoc Bentonite + 139.7 Fresh Water, weight 11.80 ppg, yield 2.45 cf/sk. Tail w/250 sks Class C cmt + 1% bwoc Calcium Chloride + 56.3% Fresh Water, weight 14.80 ppg, yield 1.34 cf/sk.
Fluid caliper ran to determine exact volume.
- c. 7" 23# & 26# dual grade N80/S95 casing set at 12,200' TVD. Hole will be

logged to determine exact cement volume to bring TOC to 4,500'. A DV tool will be utilized at around 5,300' to assure cement reaches 2,500'.

Cement with:

First stage: Lead w/200 sks Class H Cmt + 0.8% bwoc FL-62 + 0.3% bwoc BA-10 + 0.3 bwoc CD-32 + 0.2% bwoc Sodium Metasilicate + 45.7% Fresh Water, weight 15.60 ppg, yield 1.19 cf/sk. Tail w/475 sks (35:65) Poz: Class C cmt + 8% bwoc Bentonite + 5% bwow Sodium Chloride + 0.2% bwoc R-3 + 141.9% Fresh Water, weight 11.80 ppg, yield 2.53 cf/sk.

Second Stage: Lead 100 sks (50/50) Poz: Class C cmt + 2% bwoc Bentonite + 5% bwow Sodium Chloride + 0.2% bwoc CD-32 + 55.3% Fresh Water, weight 14.40 ppg, yield 1.25 cf/sk. Tail w/50 sks Class C cmt, weight 14.80 ppg, yield 1.33 cf/sk.

- d. 4 ½" Flush joint liner – 13.5# P-110 set at 15,200' TVD. Logs will be ran to determine exact cement volume and a 400' overlap for liner hanger and packer will be set. Cement will be circulated to top of liner. Cement with 315 sks Class H, 0.8% FL-62, .3% BA-10, .3% CD-32, .2% Sodium Metasilicate + 45.7 Fresh Water, weight 15.60 ppg, yield 1.19 cf/sk.

11. Pressure Control Equipment

0'–925' None

925'–4,725' 11" 5000# ram type preventers with one set blind rams and one set pipe rams and a 5000# annular type preventer. A choke manifold and accumulator with floor and remote operating stations and auxiliary power system.

A kelly cock will be installed and maintained in operable condition and a drill string safety valve in the open position will be available on the rig floor.

4,725'–12,200' After setting the 9 5/8" casing, the blowout preventers and related control equipment shall be pressure tested to 5000 psi. Any equipment failing to test satisfactorily shall be repaired or replaced. Results of the BOP test will be recorded in the Driller's Log. The BOP's will be maintained ready for use until drilling operations are completed.

12,200'-15,200' TVD After setting 7" casing, BOP and related equipment shall be tested to 10,000 psi. Results of test shall be reported in the drillers log.

BOP drills will be conducted as necessary to assure that equipment is operational and each crew is properly trained to carry out emergency duties.

Accumulatory shall maintain a pressure capacity reserve at all times to provide for the close-open-close sequence of the blind and pipe rams of the hydraulic preventers.

12. Mud Program:

0' -925' Fresh water/native mud. Lime for pH control (9-10). Paper for seepage. Wt. 8.7 - 9.2 ppg, vis 32 - 34 sec.

925' -4,725' Brine H2O. Sweep as necessary, weight 9.2 - 10.0.

4,725' -12,200' Fresh Water/mud, weight 8.4 - 11.0. Sweep as necessary. Control fluid loss on top of Cisco.

12,200' -15,200' Brine/mud system, weight 10.0 - 11.5 ppg. Control fluid loss <10cc.

13. Testing, Logging and Coring Program:

1. Testing program: Drillstim testing is possible
2. Electric logging program: CNL/LDT/CAL/GR, DLL/CAL/GR.
3. Coring program: Possible sidewall rotary cores.

14. Anticipated starting date is March 1, 2003. It should take approximately 58 days to drill the well and another 15 days to complete.

The Multi-Point Surface Use & Operation Plan is attached. If you need additional information to evaluate this application, please call me at (405) 749-5263.

Sincerely,
DOMINION OKLAHOMA TEXAS E&P, INC.



Carla Christian
Regulatory Specialist

DISTRICT I
1825 N. French Dr., Hobbs, NM 88240

DISTRICT II
811 South First, Artesia, NM 88210

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

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 30-025-36265	Pool Code 72650	Pool Name Bootleg Ridge; Morrow
Property Code 32273	Property Name BOOTLEG "11" FEDERAL COM	Well Number 1
OGRID No. 025773	Operator Name DOMINION OKLAHOMA TEXAS E&P INC.	Elevation 3700'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	11	22 S	32 E		2030	SOUTH	1650	EAST	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 320	Joint or Infill No	Consolidation Code	Order No.
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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>Lat.: N32°24'16.8"</p> <p>Long.: W103°38'32.3"</p>	<p>NM-14332</p>	<p>NM-108043</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>Carla Christian</i> Signature</p> <p>Carla Christian Printed Name</p> <p>Regulatory Specialist Title</p> <p>January 31, 2003 Date</p>
	<p>3703.3'</p> <p>3691.5'</p> <p>3711.8'</p> <p>3692.1'</p> <p>1650'</p> <p>2030'</p> <p>NM-105892</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>JANUARY 29, 2003 Date Surveyed</p> <p><i>[Signature]</i> Signature & Seal of Professional Surveyor</p> <p>W.O. No. 2997</p> <p>Certificate No. Gary L. Jones 7977</p> <p>BASIN SURVEYS</p>

3703.3' 400' 3691.5'

150' NORTH
OFF SET
3696.8'

DOMINION OKLAHOMA TEXAS E&P, INC.
BOOTLEG "11" FEDERAL COM #1
ELEV. - 3700'

150' WEST
OFF SET
3704.8'

Lat.-N32°24'16.8"
Long.-W103°38'32.3"

150' EAST
OFF SET
3693.6'

150' SOUTH
OFF SET
3699.6'

O-H Power Line

Pole

Lease Road

3711.8' 400' 3692.1'

Survey Date: 01-29-2003 Sheet 1 of 1 Sheets

**TITLE PAGE/ABSTRACT/
NEGATIVE SITE REPORT
CFO/RFO**

1/95

1. BLM Report No.	2. (ACCEPTED) (REJECTED)	3. NMCRIS No. 81990
4. Title of Report (Project Title) Class III archaeological survey of a pad and access road for the Bootleg "11" Fed. Com well No. 1 for Dominion Oklahoma Texas Exploration and Production, Inc.		5. Project Date(s) 30 Jan. 2003 to
		6. Report Date 30 Jan. 2003
7. Consultant Name & Address: Direct Charge: Danny Boone Name: Boone Archaeological Services, LLC Address: 2030 N. Canal Carlsbad, New Mexico Authors Name: Danny Boone Field Personnel Names: Danny Boone Phone: (505) 885-1352		8. Permit No. 190-2920-02-B
		9. Consultant Report No. BAS 01-03-20
10. Sponsor Name and Address: Indiv. Responsible: Gene Simer Name: Dominion Oklahoma Texas Expoloration & Production, Inc. Address: 309 S. Halagueno St. Carlsbad, NM 88220 Phone: (505) 885-1313		11. For BLM Use Only.
		12. ACREAGE: Total No. of acres surveyed: <u>3.2 (+/-)</u> SURFACE OWNERSHIP: Federal: <u>3.2 (-/+)</u> State: <u>0</u> , Private: <u>0</u>
13. Location: (Maps Attached if Negative Survey) a. State: New Mexico b. County: Lea c. BLM Office Carlsbad d. Nearest City or Town: Loving, NM e. Legal Location: T <u>22S</u> , R <u>32E</u> , Sec. <u>11</u> , NW SE: Well Footages: 2030' FSL, 1650' FEL f. USGS 7.5 Map Name(s) and Code Number(s): The Divide, NM (1984) 32103-D6 g. Area: Block: surveyed: 400' x 400' Impact: Within survey area Linear: Surveyed: NA Impact: NA		

14. a. Records Search; ARMS: Date(s): 30 Jan. 2003 Name(s): Ann Boone
BLM Office: Date(s): 30 Jan. 2003 Name(s): Danny Boone
List Sites within .25 miles of Project: None
Show sites within 500' on Project Map

b. Description of Undertaking:

There is an existing west to east overhead electric line and lease road just inside of the pad survey area. The proposed lease road is in the southwest portion and entirely within the pad survey area.

c. Environmental Setting (NRCS soil designation; vegetative community; etc.):

Topography: Northwest facing hill slope.

Vegetation: Ground cover approximately 25% overall, mesquite, yucca cactus, creosote bush, four wing salt bush, mormon tea, littleleaf horsebrush, various grasses and other flora.

NRCS :Simona-Tonuco association: Nearly level and gently undulating, loamy and sandy soils that are shallow to indurated caliche

d. Field Methods:

Transect Intervals: A grid of parallel transects spaced fifteen meters or less

Crew Size: One

Time in Field: 2.0 hrs.

15. Cultural Resource Findings:

a. Identification and description

None

16. Management Summary (Recommendations):

Archaeological clearance of a pad and access road for the Bootleg "11" Fed. Com well No. 1 for Dominion Oklahoma Texas Exploration and Production, Inc. as presently staked is recommended. All activity should cease and the BLM archaeologist notified immediately if any cultural resources are encountered at any time.

I certify that the information provided above is correct and accurate and meets all appreciable BLM standards.

Responsible Archaeologist

Signature

Danny Boone

Date

31 Jan 2003