

RECEIVED

DEC 3 2004

Form 3160
(August 1999)

OCD-ARTESIA

N.M. Oil Cons. DIV-Dist. 2
1301 W. Grand Avenue
Artesia, NM 88210Form approved.
OMB No. 1004-0136
Expires: November 30, 2000UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work ☒ DRILL ☐ REENTER
1b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other ☒ SINGLE ZONE ☐ MULTIPLE ZONE

2. Name of Operator

Dominion Oklahoma Texas Exploration & Production, Inc.

3a. Address

14000 Quail Spgs Parkway, Okla. City, OK 73134

3b. Phone No. (include area code)

405-749-1300

4. Location of Well (Report location clearly and in accordance with any state requirements.)

At surface

1650' FSL & 1650' FEL, UL J ✓

At proposed prod. zone

14. Distance in miles and direction from nearest town or post office*

12 miles Southeast of Artesia

15. Distance from proposed*
location to nearest
property or lease line, ft.
(Also to nearest drlg. unit line, if any)

1650'

16. No. of Acres in lease

760.03

17. Spacing Unit dedicated to this well

320

18. Distance from proposed location*
to nearest well, drilling, completed,
applied for, on this lease, ft.

NA

19. Proposed Depth

10,000'

20. BLM/BIA Bond No. on file

76S 63050 0330

21. Elevations (Show whether DF, KDB, RT, GL, etc.)

3290' GL

22. Approximate date work will start*

3/1/2004

23. Estimated duration

73 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification.
- Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature

Name (Printed/Typed)

Date

Title

Regulatory Specialist

Approved by (Signature)

Name (Printed/Typed)

Date

Title

FIELD MANAGER

Office

CARLSBAD FIELD OFFICE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

APPROVAL FOR 1 YEAR

Title 18 U.S.C. Section
or fraudulent statements

*(Instructions on reverse)

If earthen pits are used in
association with the drilling of this
well, an OCD pit permit must be
obtained prior to pit construction.

Truly to make to any department or agency of the United States any false, fictitious

Known Controlled Water Basin

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

DISTRICT I
1625 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	Pool Code 79933	Pool Name Lake East (Morrow)
Property Code 34532	Property Name RIO BRAVO "32" FEDERAL COM	Well Number 1
OGRID No. 025773	Operator Name Dominion Oklahoma Texas E&P, Inc.	Elevation 3290'

Surface Location

UL or lot No. J	Section 32	Township 18-S	Range 27-E	Lot Idn	Feet from the 1650	North/South line SOUTH	Feet from the 1650	East/West line EAST	County EDDY
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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	Consolidation Code	Order No.						

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

Carlsbad Irrigation District Lease dtd. 1-30-02		NMNM 110346	
		3287.0' 3298.1'	
Lat.: N32°42'05.3" Long.: W104°17'52.5"		3283.7' 3295.4'	
		1650'	

OPERATOR CERTIFICATION

I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.

Carla Christian
Signature

Carla Christian
Printed Name

Regulatory Specialist
Title

August 27, 2003
Date

SURVEYOR CERTIFICATION

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.

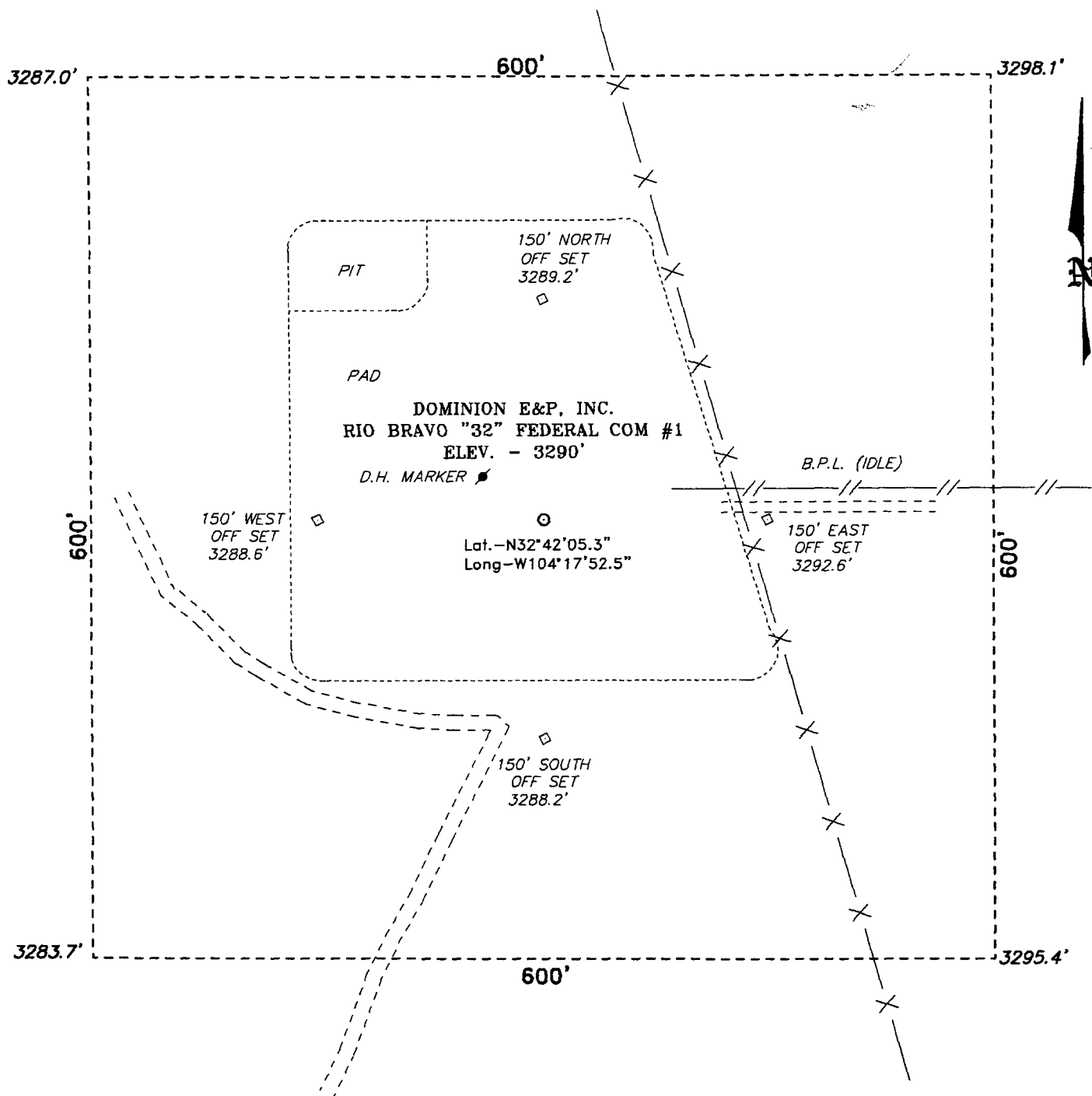
AUGUST 04, 2003
Date Surveyed

W. O. No. 3506
Signature & Seal of Professional Surveyor

Gary L. Jones
Certificate No. 7977

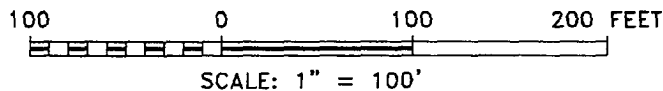
JLP

SECTION 32, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.



Directions to Location:

FROM THE INTERSECTION OF US 82 & CO. 206 GO SOUTH ON 206 TO CO RD. 234, THEN SOUTHWEST TO LEASE ROAD WEST, THEN WEST 3 MILES TO LEASE ROAD SW, THEN SW 3/4 MILE, THEN NW, 1/2 MILE TO A LEASE ROAD SOUTHWEST, THEN SW 1.25 MILES TO LOCATION.



DOMINION E&P, INC.

REF: RIO BRAVO "32" FED. COM #1 / Well Pad Topo

THE RIO BRAVO "32" FEDERAL COM. No. 1 LOCATED 1650' FROM THE SOUTH AND 1650' FROM THE EAST LINE OF SECTION 32, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.

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

W.O. Number: 3505

Drawn By: JAMES PRESLEY

Date: 08/05/03

Disk: JLP CD#1 - 3505A.DWG

Survey Date: 08/04/03

Sheet 1 of 1 Sheets

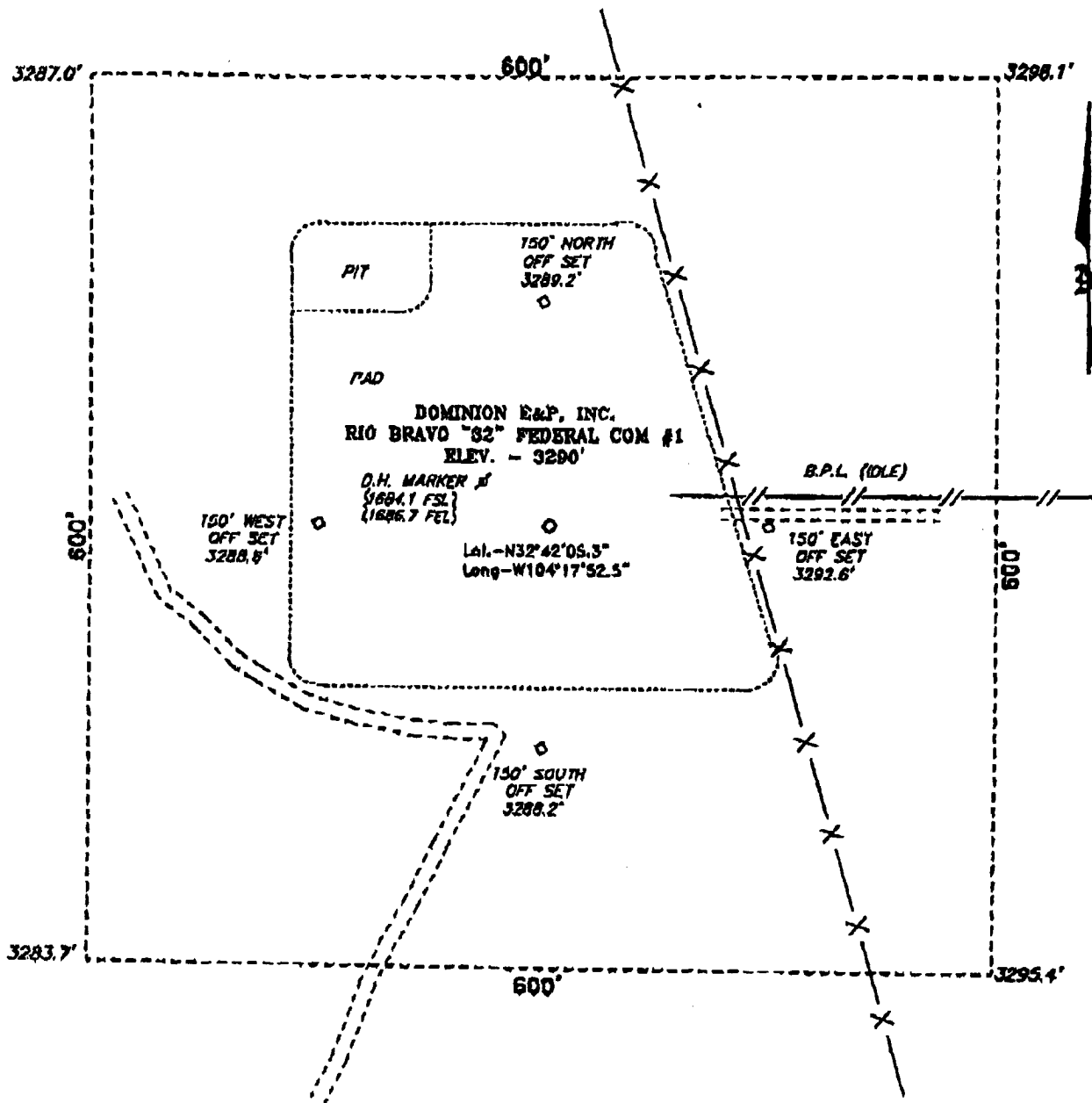
04:09p

Rhonda Rind

505-397-2206

p.2

SECTION 32, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.



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100 0 100 200 FEET

SCALE: 1" = 100'

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THE RIO BRAVO "32" FEDERAL COM. No. 1 LOCATED 1650' FROM THE SOUTH AND 1650' FROM THE EAST LINE OF SECTION 32, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.

BAND SURVEYS

P.O. BOX 1786-HOBBS, NEW MEXICO

W.O. Number: 3505

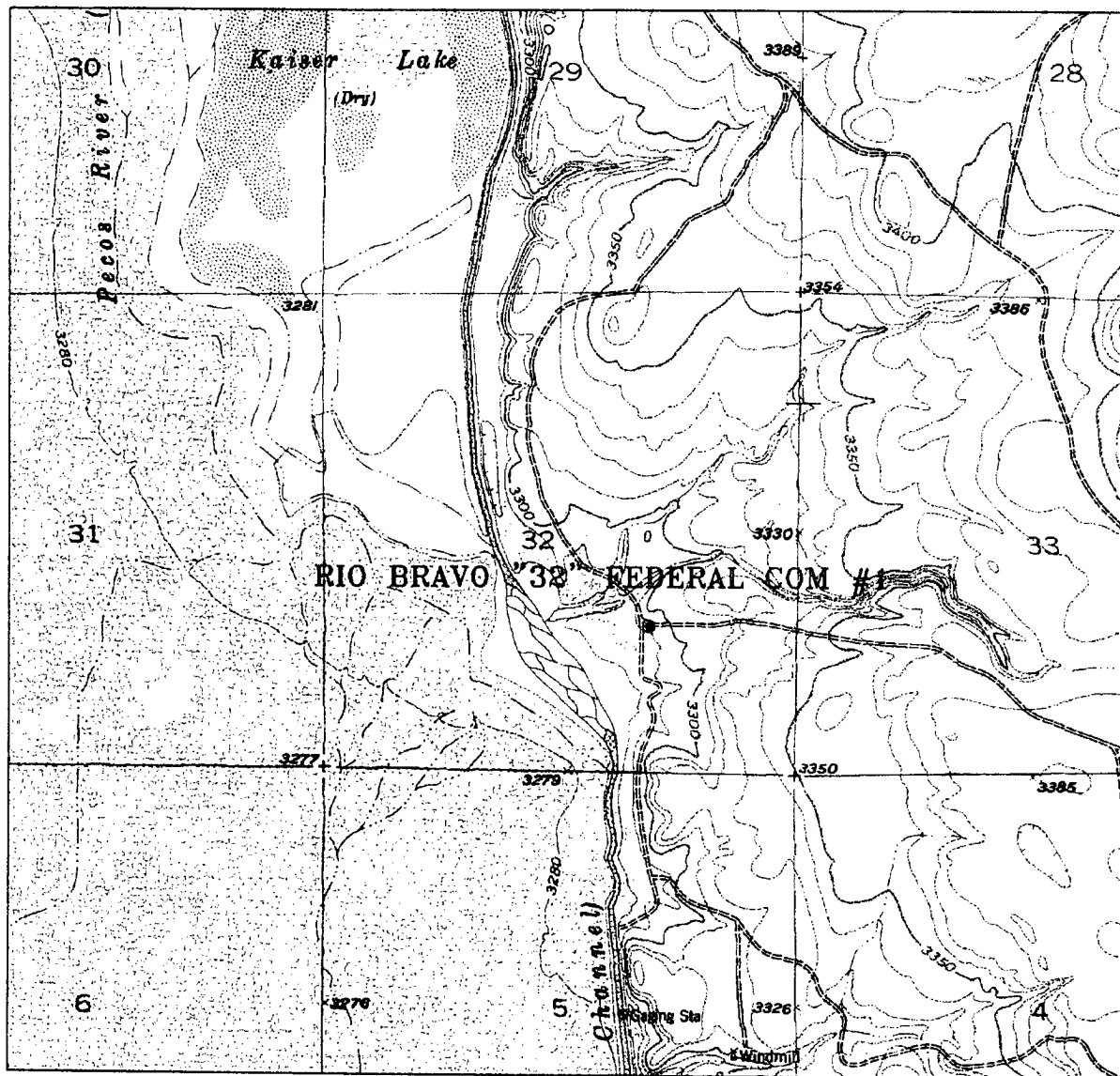
Drawn By: JAMES PRESLEY

Date: 08/05/03

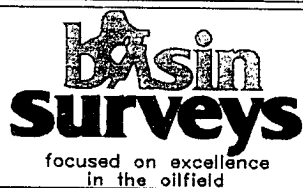
Disk: JLP CD#1 - 3505A.OWG

Survey Date: 08/04/03

Sheet 1 of 1 Sheets



RIO BRAVO "32" FEDERAL COM #1
 Located at 1650' FSL and 1650' FEL
 Section 32, Township 18 South, Range 27 East,
 N.M.P.M., Eddy 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: 3505AA - JLP CD#1

Survey Date: 08/04/03

Scale: 1" = 2000'

Date: 08/05/03

**DOMINION
 E&P, INC.**



September 17, 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.
Rio Bravo 32 Fed Com #1
Eddy County, New Mexico
Federal Lease NMNM – 110346 &
Carlsbad Irrigation District – Lease dated 1-30-02

Gentlemen:

Dominion Oklahoma Texas E&P, Inc. respectfully requests permission to drill our Rio Bravo "32" Federal Com 1 located 1650 FSL and 1650 FEL of Section 32-T18S-R27E, Eddy County, New Mexico, Federal Lease NMNM-110346 and Carlsbad Irrigation District, lease dated 1-30-02. The proposed well will be drilled to a TVD of approximately 10,000'. The location and work area have been staked approximately 12 miles Southeast of Artesia, 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 August 4, 2003.
 3. The elevation of the unprepared ground is 3,290' 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 10,000' (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 10,000' TVD.



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 6. Proposed total depth is 10,000' TVD.

7. Estimated tops of important geologic markers:

San Andres	1,600'	TVD
Bone Spring	4,050'	TVD
Wolfcamp	7,000'	TVD
Strawn	8,525'	TVD
Atoka	9,125'	TVD
Middle Morrow	9,500'	TVD
Lower Morrow	9,600'	TVD
Chester	9,850'	TVD

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

San Andres	1,600'	TVD	Oil
Bone Springs	4,050'	TVD	Oil
Wolfcamp	7,000'	TVD	Oil and/or Gas
Strawn	8,525'	TVD	Gas
Atoka	9,125'	TVD	Gas
Middle Morrow	9,500'	TVD	Gas
Lower Morrow	9,600'	TVD	Gas

9. The proposed casing program is as follows:

Surface: 13-3/8" 48#, H-40 ST&C casing set from 0' - 400'.

Intermediate: 9-5/8" 36#, J-55 LT&C casing set from 0' - 2,800'.

Production: 5-1/2" 17#, M-80 casing set from 0' - 10,000'.

10. Casing setting depth and cementing program:

- a. 13-3/8" surface casing set at 400' in 17 1/2" hole. Cement will be circulated to surface w/ Lead of 210 sks (35:65) Poz-Class C cmt + 6% bwoc Bentonite + 3% bwow Sodium Chloride + 0.004 gps FP-6L + 95.5% Fresh Water, weight 12.80 ppg, yield 1.86 cf/sk. Tail w/ 150 sks Class C cmt + 1% bwoc Calcium Chloride + 0.004 gps FP-6L + 56.3% Fresh Water, weight 14.80 ppg, yield 1.34 cf/sk. This cement volume is calculated with 80% excess.
- b. 9-5/8" 36# casing set at 2,800' 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 420 sks (50:50) Poz-Class C cmt + 10% bwoc Bentonite + 5% bwow Sodium Chloride + 0.25 lbs/sk Cello Flake + 0.004 gps FP-6L + 158.3% Fresh Water, weight 11.50 ppg, yield 2.70 cf/sk. Tail w/ 200 sks

Class C cmt + 0.004 gps FP-6L + 1% bwoc Calcium Chloride + 56.1% Fresh Water, weight 14.80 ppg, yield 1.33 cf/sk. This cement volume is calculated with 60% excess.

- c. 5-1/2" 17# M-80 casing set at 10,000' TVD. Hole will be logged to determine exact cement volume to bring TOC to approximately 4,500'.

Cement with: 780 sks Class C-pozzolan cement (CSE) + 0.5% bwoc FL-25 + 0.5% bwoc FL-52 + 0.004 gps Fp-6L + 78.3% Fresh Water, weight 13.10 ppg, yield 1.59 cf/sk. Actual cement volume will be based on open-hole caliper log.

11. Pressure Control Equipment

0' – 400' None

400' – 2,800' 11" 5,000# ram type preventers with one set blind rams and one set pipe rams and a 5,000# 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.

2,800' – 10,000' After setting the 9 5/8" casing, the blowout preventers and related control equipment shall be pressure tested to 10,000 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.

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' - 400' | Fresh water/native mud. Lime for pH control (9-10).
Paper for seepage. Wt. 8.7 - 9.2 ppg, vis 32 - 34 sec. |
| 400' - 2,800' | Brine H2O. Sweep as necessary, weight 9.2 - 10.0. |
| 2,800' - 8,400' | Fresh Water/mud, weight 8.4 - 11.0. Sweep as
necessary. Control fluid losses in the Wolfcamp zone. |
| 8,400' - 10,000' | 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: Schlumberger Platform Express w/ NGT
Possible FMI logging
3. Coring program: Possible sidewall rotary cores.

14. Anticipated starting date is March 1, 2004. It should take approximately 58 days to drill the well and another 15 days to complete.

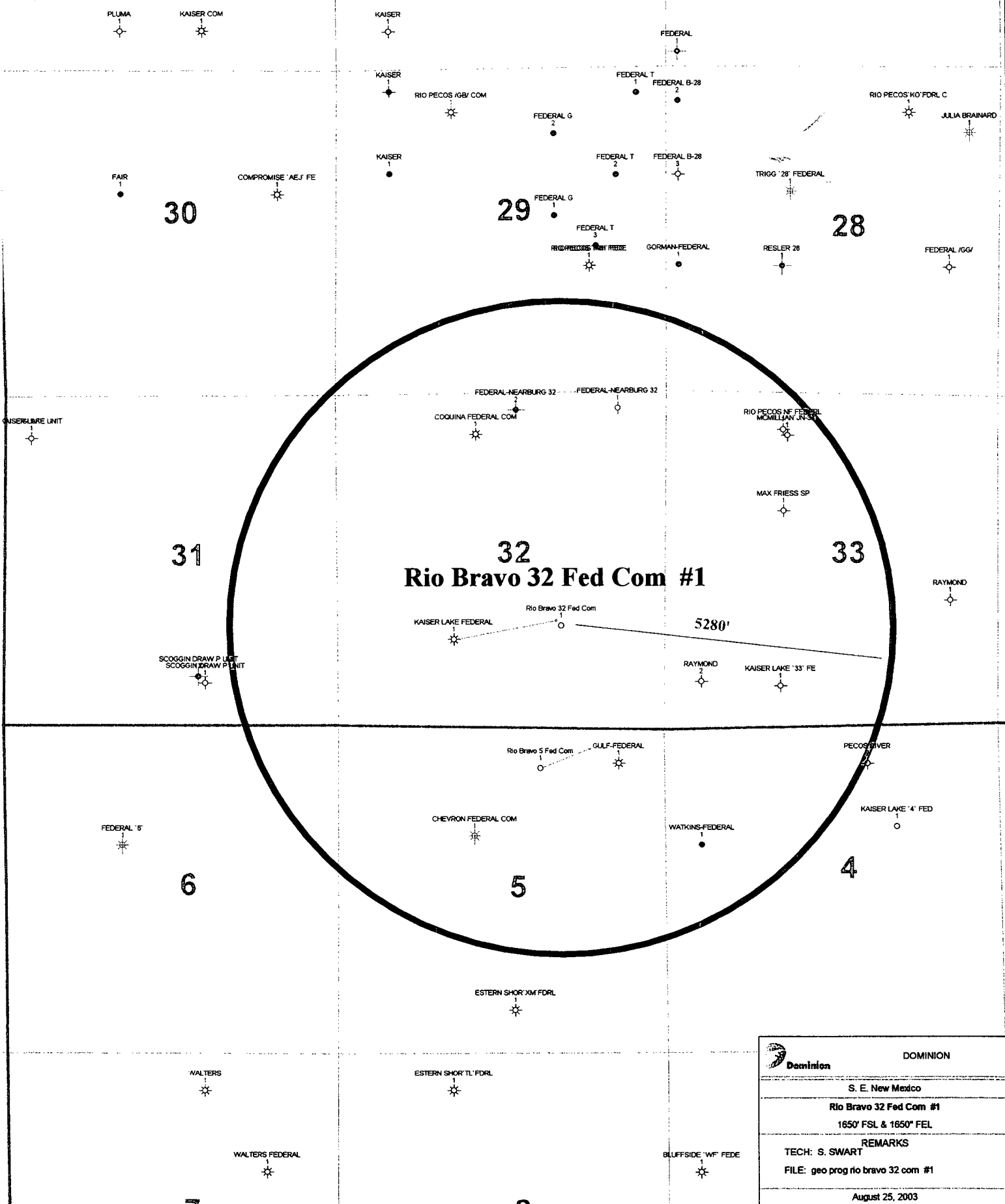
The Multi-Point Surface Use & Operation Plan is attached. If you need additional information to evaluate this application, please call me at (405) 749-5263.


Sincerely,
DOMINION OKLAHOMA TEXAS E&P, INC.



Carla Christian
Regulatory Specialist

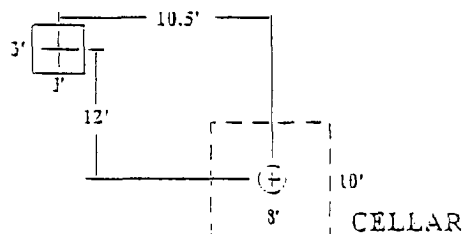
Exhibit "B"



	DOMINION
S. E. New Mexico	
Rio Bravo 32 Fed Com #1	
1650' FSL & 1650' FEL	
REMARKS	
TECH: S. SWART	
FILE: geo prog rio bravo 32 com #1	
August 25, 2003	

PITS ON LEFT

RAT HOLE

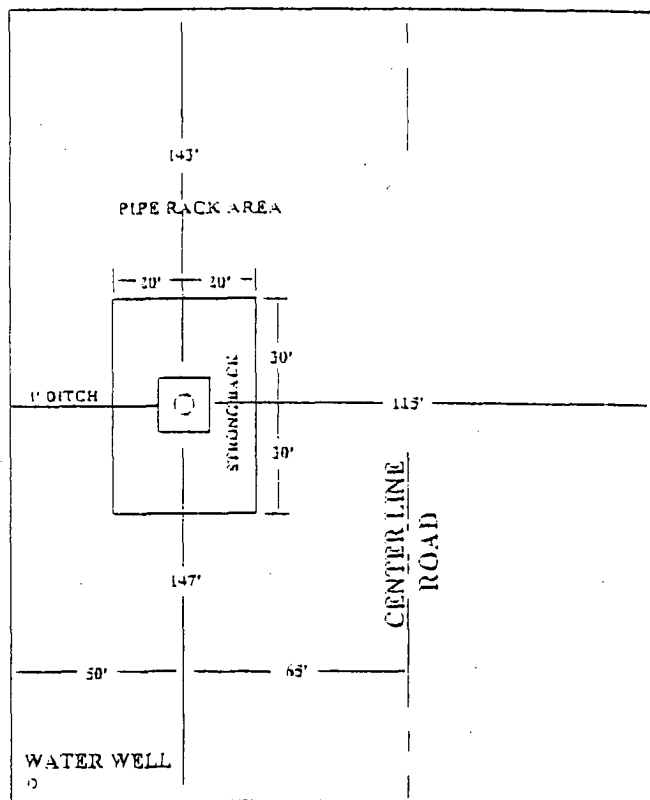


RESERVE PIT
200' X 200'

WATER PIT
20' X 45'

ALT. ROAD
CENTER

50'



STATEMENT ACCEPTING RESPONSIBILITY FOR OPERATIONS

Operator name: Dominion Oklahoma Texas Exploration & Production, Inc.
Street or Box: 14000 Quail Springs Parkway, Suite 600
City, State: Oklahoma City, OK
Zip: 73134

The undersigned accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted on the leased land or portion thereof, as described below:

Lease No.: NMNM - 110346
Legal Description of Land: Sec. 32-18S-27E, Eddy County, NM
Formation(s) (if applicable): Morrow
Bond Coverage: Nationwide
BLM Bond File No.: 76S 63050 701


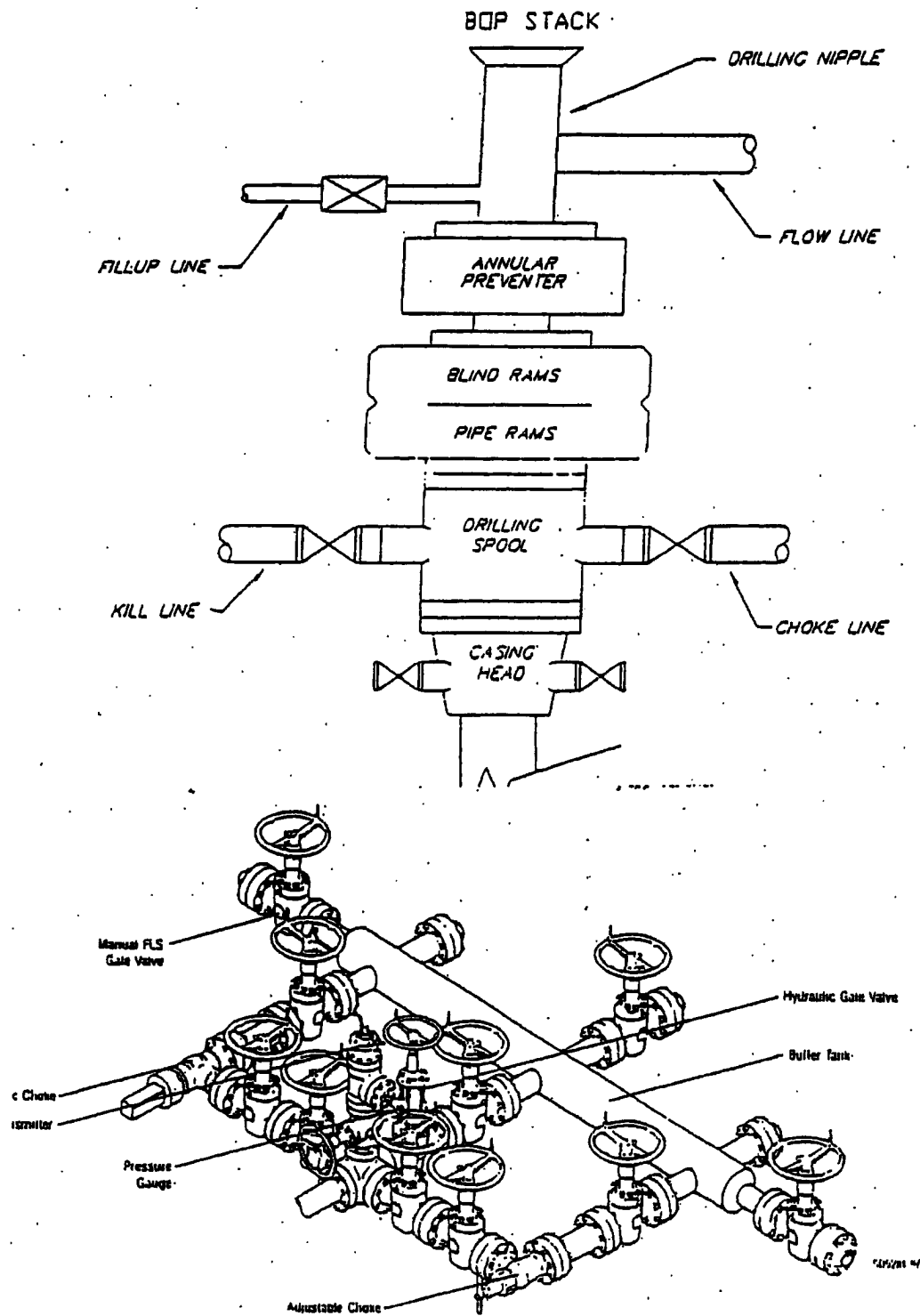
Authorized Signature: 
Title: Regulatory Specialist
Date: September 17, 2003

Exhibit 6

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



Typical Choke Manifold Designed for Land Drilling Applications



December 7, 2004

Mr. Bryan Arrant
Oil Conservation Division, District II Office
1301 W. Grand Avenue
Artesia, NM 88210

RECEIVED
DEC 10 2004
OCD-ARTESIA

Re: Rio Bravo "32" Federal Com 1
1650' FSL & 1650' FEL, Section 32-18S-27E, UL J
Eddy County, New Mexico
H2s Contingency Plan

Dear Mr. Arrant:

Sources at Dominion Oklahoma Texas E&P, Inc. have relayed information to me that they believe there will not be enough H2S anticipated from the surface to the Chester Formation, TD of 10,000', to meet the requirements for the submission of a contingency plan per rule 118.

Sincerely,
DOMINION OKLAHOMA TEXAS E & P, INC.

Carla Christian
Regulatory Specialist