

0223

N.M. Oil Cons. DIV-Dist. 2
1301 W. Grand Avenue
Artesia, NM 88210

RECEIVED

Form approved.
OMB No. 1004-0136
Expires: November 30, 2000

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

DEC 3 2004
OCD-ARTESIA

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMNM - 109751	
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE		6. If Indian, Allottee or Tribe Name	
2. Name of Operator Dominion Oklahoma Texas Exploration & Production, Inc.		7. If Unit or CA Agreement, Name and No.	
3a. Address 14000 Quail Spgs Parkway, Okla. City, OK 73134		8. Lease Name and Well No. Rio Bravo "5" Federal Com 1	
3b. Phone No. (include area code) 405-749-1300		9. API Number 30-015-33877	
4. Location of Well (Report location clearly and in accordance with any state requirements.) At surface 330' FNL & 1200' FEL, UL A At proposed prod. zone 660' FNL & 1980' FEL, UL B <i>*NON-STANDARD LOCATION</i>		10. Field and Pool, or Exploratory Lake East (Morrow)	
14. Distance in miles and direction from nearest town or post office 12 miles Southeast of Artesia		11. Sec., T., R., M., or Blk and Survey or Area 5-19S-27E	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. unit line, if any) 660'		12. County of Parish Eddy	
16. No. of Acres in lease 395.08		13. State NM	
17. Spacing Unit dedicated to this well 316.56		18. Distance from proposed* location to nearest well, drilling, completed, annulled for, on this lease, ft. NA	
19. Proposed Depth 10,100'		20. BLM/BIA Bond No. on file 76S 63050 0330	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3319' GL		22. Approximate date work will start* 3/15/2004	
		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 <i>Carla Christian</i>	Name (Printed/Typed) Carla Christian	Date 9/23/03
Title Regulatory Specialist		
Approved by (Signature) <i>LSI RUSS SORENSEN</i>	Name (Printed/Typed) LSI RUSS SORENSEN	Date DEC 01 2004
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 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.

*(Instructions on reverse)

Loswell Controlled Water Basin

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

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



October 15, 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 5 Fed Com #1
Eddy County, New Mexico
Federal Lease NMNM – 109751

Gentlemen:

Dominion Oklahoma Texas E&P, Inc. respectfully requests permission to drill our Rio Bravo 5 Fed Com 1 located 330' FNL and 1200 FEL of Section 5-T19S-R27E, Eddy County, New Mexico, Federal Lease NMNM-109751. The well is to be directionally drilled to a bottom hole location of 660' FNL & 1,980' FEL of Section 5-T19S-R27E. The proposed well will be drilled to a TVD of approximately 10,100'. 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 3,319 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 10,100' (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 10,152' TMD (10,100' TVD).

7. Estimated tops of important geologic markers:

San Andres	1,625'	TVD
Bone Spring	4,075'	TVD
Wolfcamp	7,025'	TVD
Strawn	8,575'	TVD
Atoka	9,200'	TVD
Middle Morrow	9,575'	TVD
Lower Morrow	9,675'	TVD
Chester	9,925'	TVD
Total Depth	10,100'	TVD

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

Primary Objective: Morrow 9,575' TVD

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' - 10,152'.

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 10,152' TVD. Hole will be logged to determine exact cement volume to bring TOC to approximately 4,500'.

Cement with: 730 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' – 10,152' 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' ^{FRESH} 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' - 10,152' Brine/mud system, weight 10.0 - 11.5 ppg. Control
fluid loss <10cc.

1. Testing program: Drillstem 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 15, 2004. It should take approximately
50 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

Carla Christian
Regulatory Specialist



Job Number: State/Country: New Mexico / USA
 Company: Dominion Exploration & Production Declination:
 Lease/Well: Rio Bravo 5 Fed Com 1 Grid:
 Location: Eddy County - Sec 5-19S-27E File name: C:\CUST03\SURVEY\DOMINION\RB5FC1.SVY
 Rig Name: Date/Time: 22-Aug-03 / 14:13
 RKB: Curve Name: Proposal 8-22-03
 G.L. or M.S.L.: 3325' (approx)

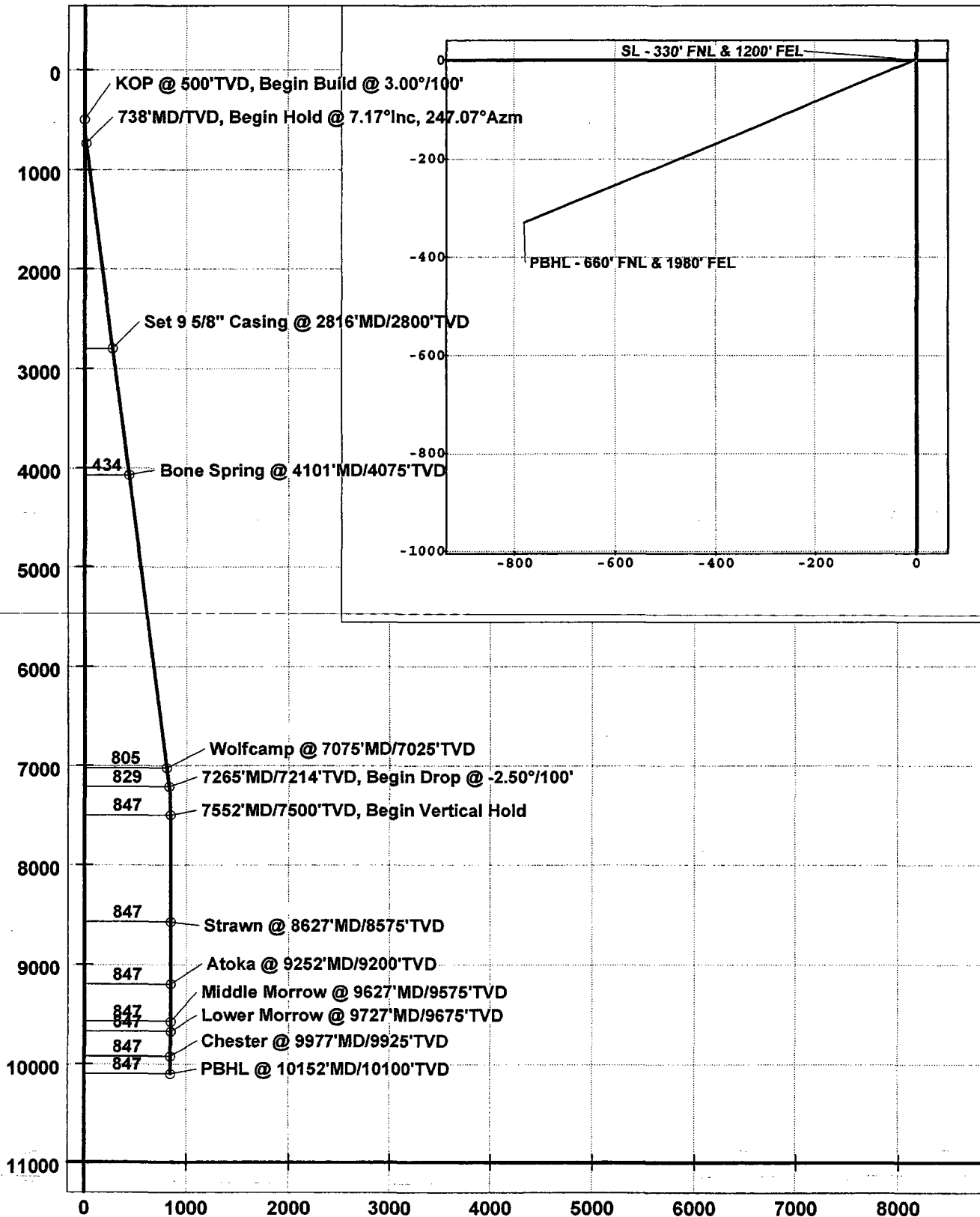
INWELL INC.
 DIRECTIONAL DRILLING SERVICES
 HOUSTON, TEXAS
 281-397-7614
 888-397-7614

WINSERVE PROPOSAL REPORT
 Minimum Curvature Method
 Vertical Section Plane 247.07
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Vertical Section FT	N-S FT	E-W FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
KOP @ 500'TVD, Begin Build @ 3.00°/100'									
500.00	.00	.00	500.00	.00	.00	.00	.00	.00	.00
600.00	3.00	247.07	599.95	2.62	-1.02	-2.41	2.62	247.07	3.00
700.00	6.00	247.07	699.63	10.46	-4.08	-9.64	10.46	247.07	3.00
738'MD/TVD, Begin Hold @ 7.17°Inc, 247.07°Az									
738.85	7.17	247.07	738.22	14.92	-5.81	-13.74	14.92	247.07	3.00
1738.85	7.17	247.07	1730.41	139.65	-54.41	-128.61	139.65	247.07	.00
2738.85	7.17	247.07	2722.60	264.38	-103.01	-243.49	264.38	247.07	.00
Set 9 5/8" Casing @ 2816'MD/2800'TVD									
2816.85	7.17	247.07	2800.00	274.11	-106.81	-252.45	274.11	247.07	.00
3738.85	7.17	247.07	3714.79	389.12	-151.62	-358.36	389.12	247.07	.00
Bone Spring @ 4101'MD/4075'TVD									
4101.89	7.17	247.07	4075.00	434.40	-169.26	-400.07	434.40	247.07	.00
4738.85	7.17	247.07	4706.98	513.85	-200.22	-473.24	513.85	247.07	.00
5738.85	7.17	247.07	5699.18	638.58	-248.82	-588.11	638.58	247.07	.00
6738.85	7.17	247.07	6691.37	763.32	-297.42	-702.99	763.32	247.07	.00
Wolfcamp @ 7075'MD/7025'TVD									
7075.11	7.17	247.07	7025.00	805.26	-313.76	-741.62	805.26	247.07	.00
7265'MD/7214'TVD, Begin Drop @ -2.50°/100'									
7265.73	7.17	247.07	7214.13	829.04	-323.03	-763.52	829.04	247.07	.00
7365.73	4.67	247.07	7313.59	839.34	-327.04	-773.01	839.34	247.07	2.50

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Vertical Section FT	N-S FT	E-W FT	C L O S U R E		Dogleg Severity Deg/100
7465.73	2.17	247.07	7413.41	845.30	-329.36	-778.49	845.30	247.07	2.50
7552'MD/7500'TVD, Begin Vertical Hold									
7552.34	.00	247.07	7500.00	846.94	-330.00	-780.00	846.94	247.07	2.50
8552.34	.00	247.07	8500.00	846.94	-330.00	-780.00	846.94	247.07	.00
Strawn @ 8627'MD/8575'TVD									
8627.34	.00	247.07	8575.00	846.94	-330.00	-780.00	846.94	247.07	.00
Atoka @ 9252'MD/9200'TVD									
9252.34	.00	247.07	9200.00	846.94	-330.00	-780.00	846.94	247.07	.00
9552.34	.00	247.07	9500.00	846.94	-330.00	-780.00	846.94	247.07	.00
Middle Morrow @ 9627'MD/9575'TVD									
9627.34	.00	247.07	9575.00	846.94	-330.00	-780.00	846.94	247.07	.00
Lower Morrow @ 9727'MD/9675'TVD									
9727.34	.00	247.07	9675.00	846.94	-330.00	-780.00	846.94	247.07	.00
Chester @ 9977'MD/9925'TVD									
9977.34	.00	247.07	9925.00	846.94	-330.00	-780.00	846.94	247.07	.00
PBHL @ 10152'MD/10100'TVD									
10152.34	.00	247.07	10100.00	846.94	-330.00	-780.00	846.94	247.07	.00

Company: Dominion Exploration & Production
Lease/Well: Rio Bravo 5 Fed Com 1
Location: Eddy County - Sec 5-19S-27E
State/Country: New Mexico / USA



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	Pool Code 79933	Pool Name Lake East (Morrow)
Property Code	Property Name RIO BRAVO "5" FEDERAL COM	Well Number 1
OGRID No. 025773	Operator Name DOMINION OKLAHOMA TEXAS E&P, INC.	Elevation 3319'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	5	19-S	27-E		330'	NORTH	1200'	EAST	EDDY

Bottom Hole Location If Different From Surface

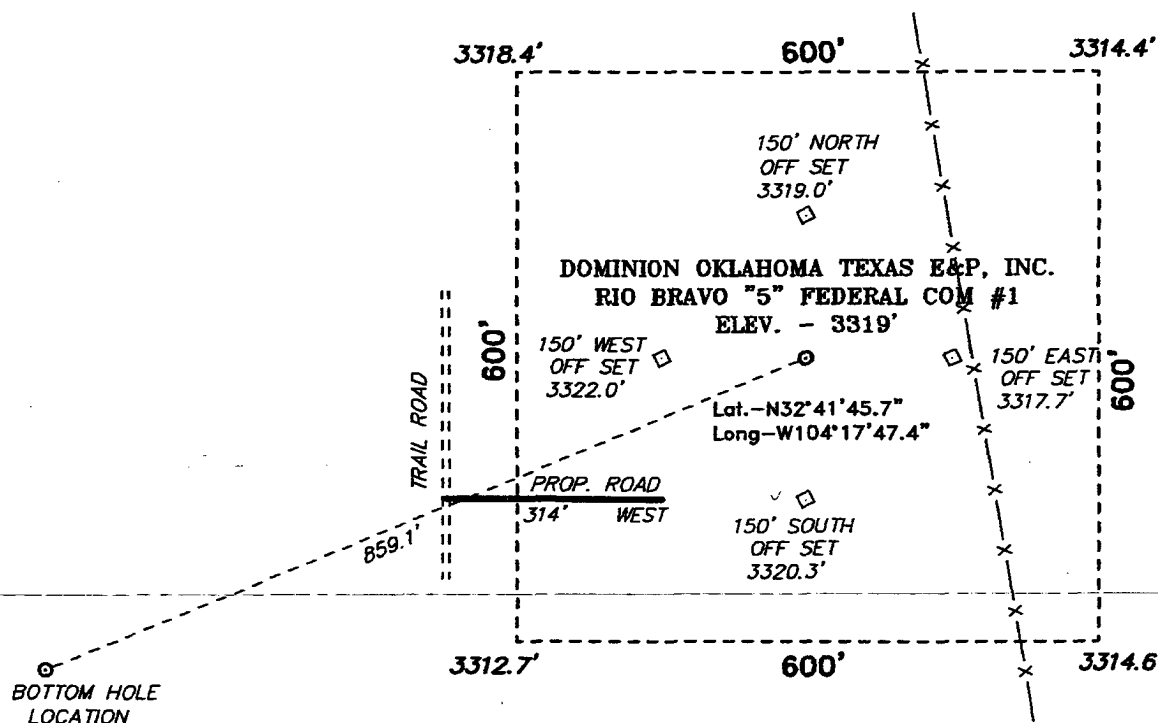
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	5	19-S	27-E		660'	NORTH	1980'	EAST	EDDY

Dedicated Acres 316.56	Joint or Infill	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

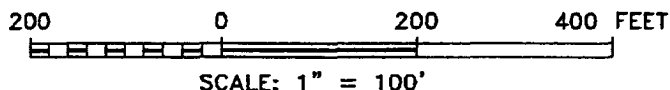
	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. <u>Carla Christian</u> Signature Carla Christian Printed Name Regulatory Specialist Title August 27, 2003 Date
	SURVEYOR CERTIFICATION I hereby certify that the well 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 Signature & Seal of Professional Surveyor Certificate No. 7977 JLP BASIN SURVEYS

**SECTION 5, TOWNSHIP 19 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 1.50 MILES TO LOCATION.



DOMINION OKLAHOMA TEXAS E&P, INC.

REF: RIO BRAVO "5" FED. COM #1 / Well Pad Topo

THE RIO BRAVO "5" FEDERAL COM. No. 1 SURFACE LOCATION AT 330' FROM THE NORTH AND 1200' FROM THE EAST LINE AND THE BOTTOM HOLE LOCATION AT 660' FROM THE NORTH LINE AND 1980' FROM THE EAST LINE OF SECTION 5, TOWNSHIP 19 SOUTH, RANGE 27 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.

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

W.O. Number: 3507

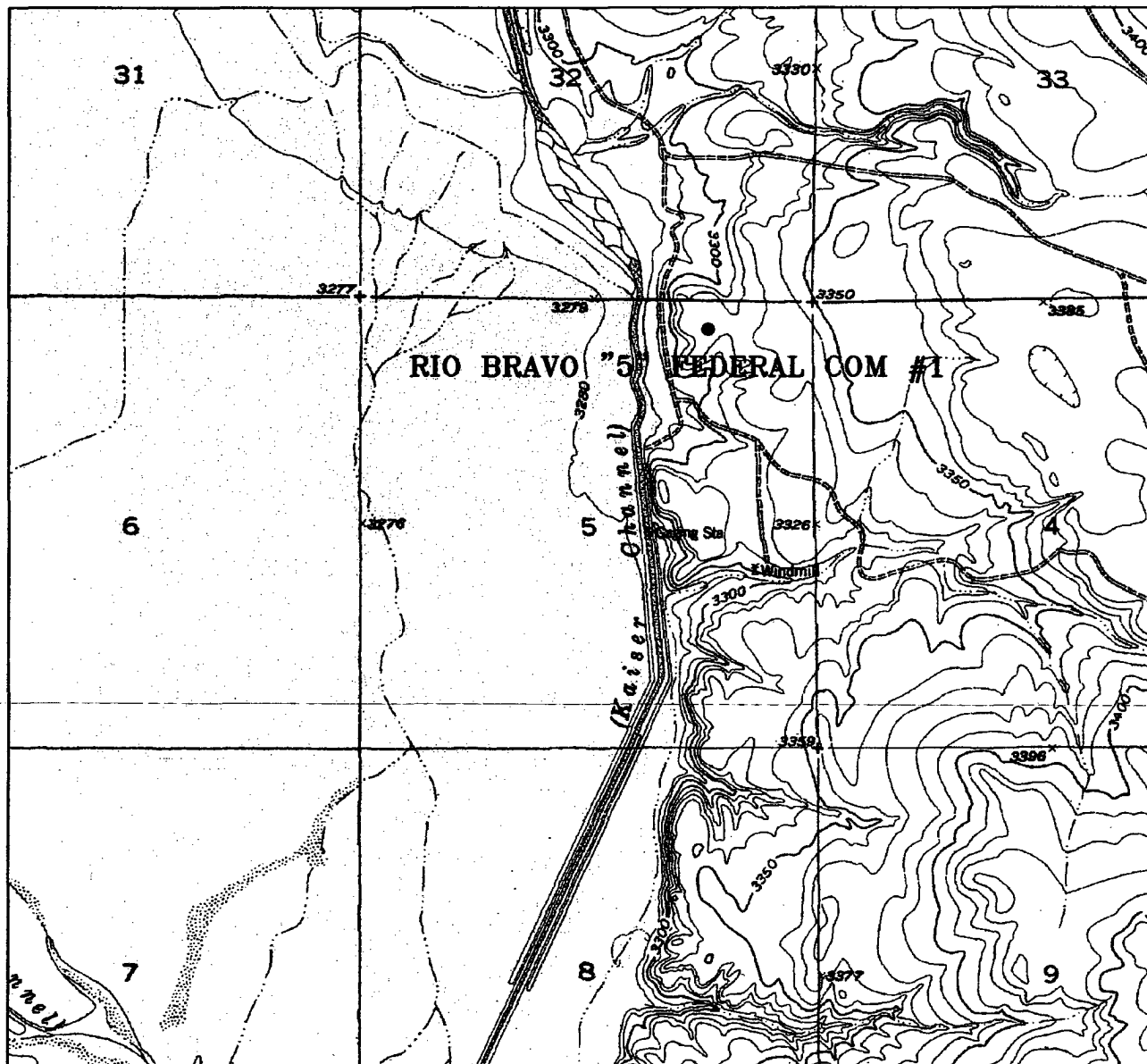
Drawn By: JAMES PRESLEY

Date: 08/05/03

Disk: JLP CD#1 - 3507A.DWG

Survey Date: 08/04/03

Sheet 1 of 1 Sheets



RIO BRAVO "5" FEDERAL COM #1
 Surface Location at 330' FNL and 1200' FEL
 Bottom Location at 660' FNL and 1980' FEL
 Section 5, Township 19 South, Range 27 East,
 N.M.P.M., Eddy 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

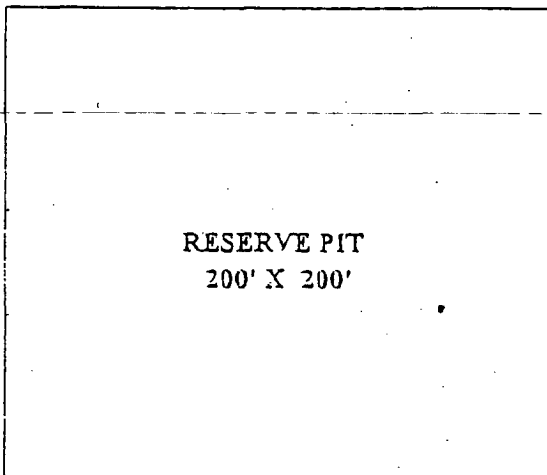
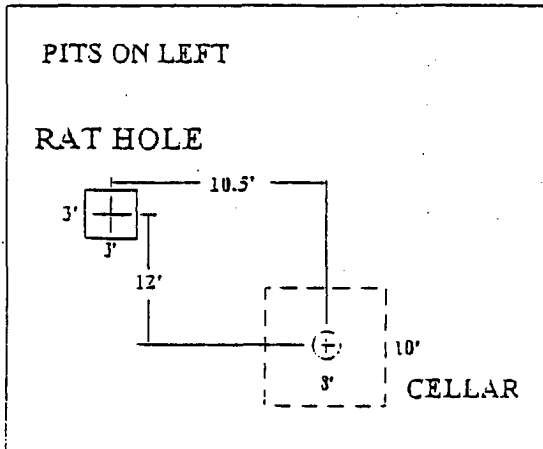
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Survey Date: 08/04/03

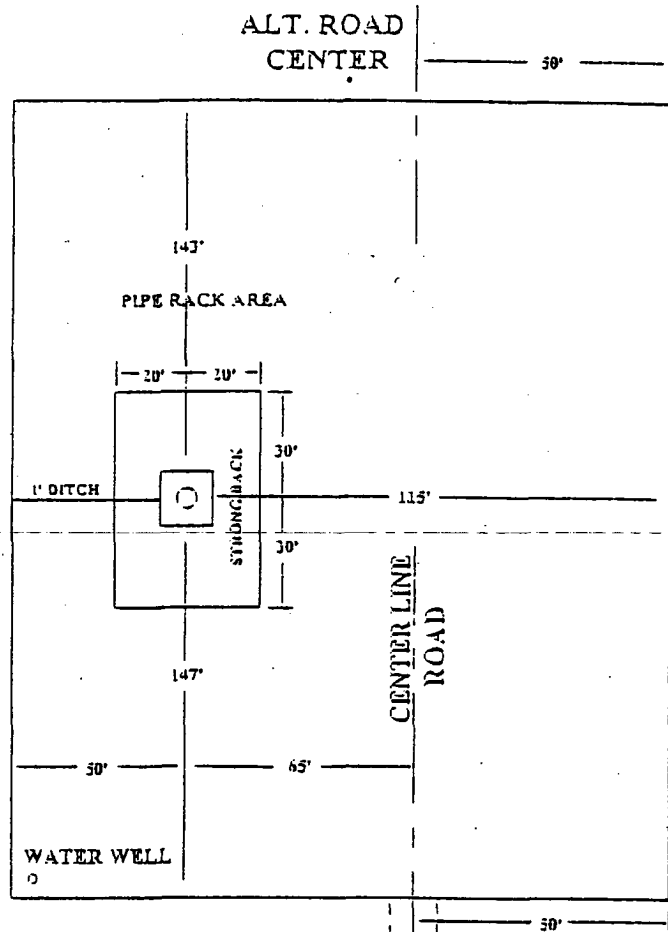
Scale: 1" = 2000'

Date: 08/05/03

DOMINION
OKLAHOMA TEXAS
E&P, INC.



WATER PIT
20' X 85'



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:

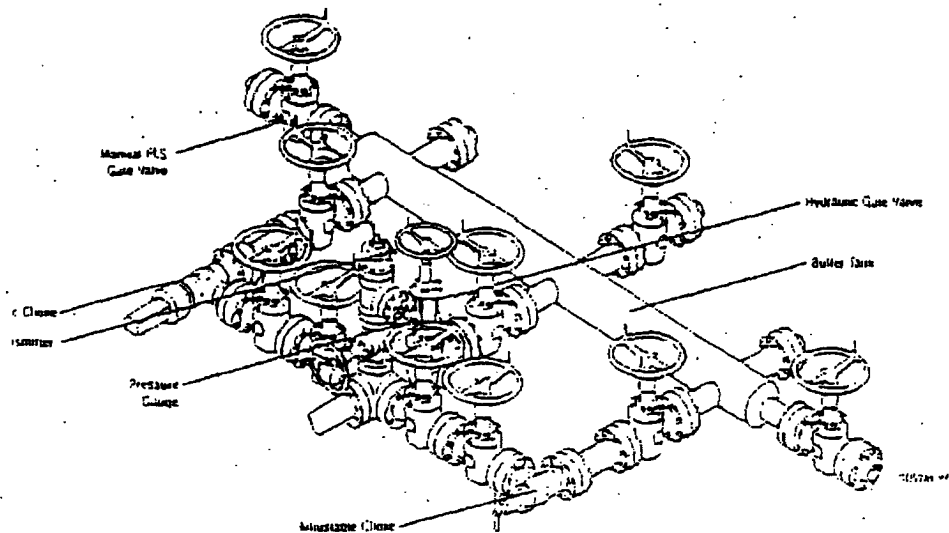
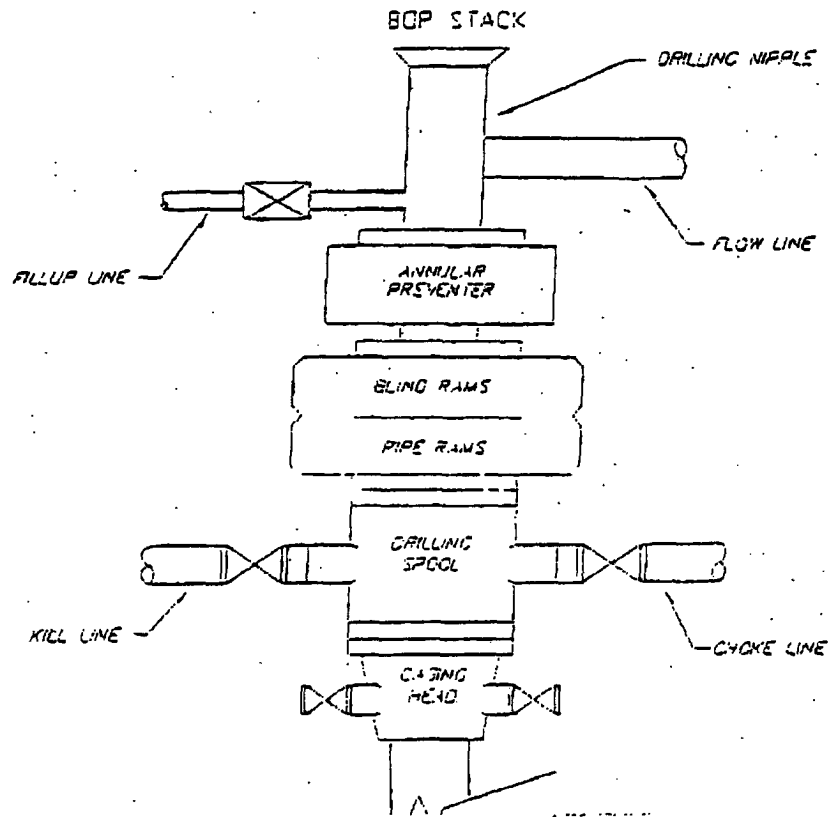
Lease No.: NMNM - 109751
Legal Description of Land: Sec. 5-19S-27E, Eddy County, NM
Formation(s) (if applicable): Morrow
Bond Coverage: Nationwide

BLM Bond File No.: 76S 63050 701

Authorized Signature: *Carla Christian*
Title: Regulatory Specialist
Date: September 17, 2003

Exhibit 6

TYPICAL 5,000 P.S.I. BLOWOUT PREVENTER & CHOKES MANIFOLD SCHEMATIC



Typical Choke Manifold Designed for Land Drilling Applications



December 7, 2004

RECEIVED

DEC 10 2004

OKLAHOMA

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

Re: Rio Bravo "5" Federal Com 1
330' FNL & 1200' FEL, Surface Location, Section 5-19S-27E, UL A
660' FNL & 1980' FEL, Bottom Hole Location, Sec. 5-19S-27E, UL B
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 10,100', 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