

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

Questar Exploration and Production Company (303) 672-6916

3. ADDRESS AND TELEPHONE NO.

1331 17th St., Suite 800, Denver, Co. 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
At surface

2173' FNL &amp; 1639' FWL

At proposed prod. zone

Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

2 air miles N of Lybrook, NM

15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drilg. unit line, if any)

395'

16. NO. OF ACRES IN LEASE

321.78

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

40

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

997'

19. PROPOSED DEPTH

5,675'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DR, RT, GR, etc.)

This action is subject to technical and  
procedural review pursuant to 43 CFR 3165.3  
and appeal pursuant to 43 CFR 3165.4.

6,990' ungraded ground

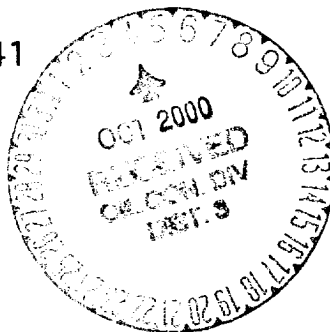
22. APPROX. DATE WORK WILL START\*

Sept. 1, 2000

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8" (K-55)	24#	300'	≈265 cu ft & to surface
7-7/8"	4-1/2" (J-55)	11.6#	5,675'	≈ 2,110 cu ft & to surface

Archaeology report #: LAC 2000-41

DRILLING OPERATIONS AUTHORIZED ARE  
SUBJECT TO COMPLIANCE WITH ATTACHED  
"GENERAL REQUIREMENTS"

cc: BLM, OGCC, Ohlman

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

TITLE

Consultant (505) 466-8120

DATE

8-12-00

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

10/2/00

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:

APPROVED BY

TITLE

DATE

10/2/00

\*See Instructions On Reverse Side

NMOCD

State of New Mexico  
Energy, Minerals & Mining Resources Department

Form C - 102

OIL CONSERVATION DIVISION  
2040 South Pacheco  
Santa Fe, NM 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

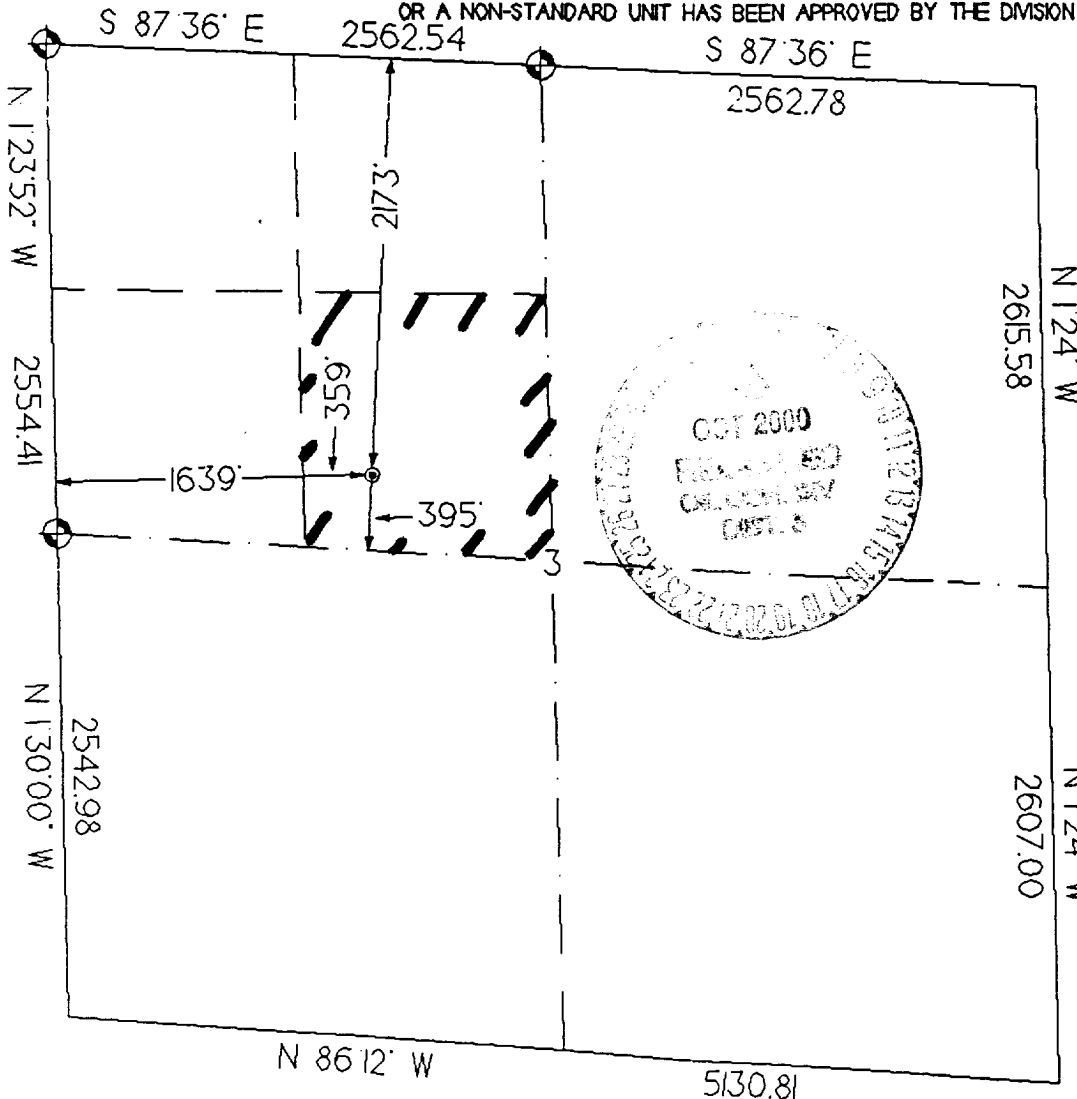
APA Number <b>30-039-26570</b>	Pool Code <b>42289</b>	Pool Name <b>LYBROOK GALLUP</b>
Property Code <b>23868</b>	Property Name <b>NAGEEZI FEDERAL 3</b>	Well Number <b>4</b>
OGRID No. <b>23846</b>	Operator Name <b>QUESTAR EPLORATION &amp; PRODUCTION</b>	Elevation <b>6990'</b>

Surface Location									
UL or Lot <b>F.</b>	Sec. <b>3.</b>	Twp. <b>23 N.</b>	Rge. <b>7 W.</b>	Lot Idn.	Feet from <b>2173</b>	North/South <b>NORTH</b>	Feet from <b>1639'</b>	East/West <b>WEST</b>	County <b>RIO ARriba</b>

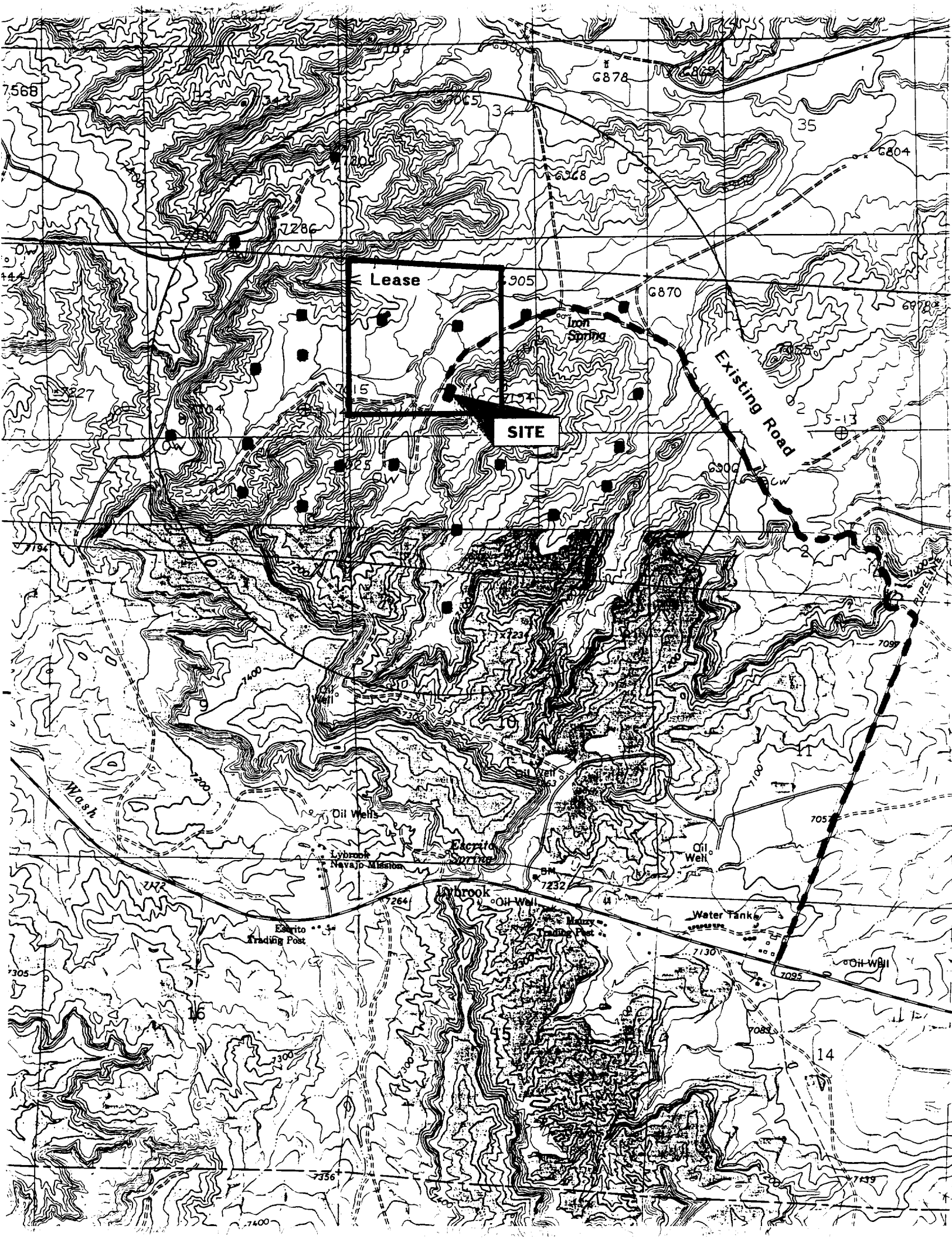
Bottom Hole Location If Different From Surface									
UL or Lot	Sec.	Twp.	Rge.	Lot Idn.	Feet from	North/South	Feet from	East/West	County

Dedication	Joint ?	Consolidation	Order No.
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NO ALLOWABLE WILL ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



<b>OPERATOR CERTIFICATION</b> I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Signature <i>Brian Wood</i>	
Printed Name <b>BRIAN WOOD</b>	
Title <b>CONSULTANT</b>	
Date <b>AUG. 12, 2000</b>	
<b>SURVEYOR CERTIFICATION</b> I hereby certify that the well location 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. Date of Survey <b>30 JUNE 2000</b>	
Signature and Seal of Professional Surveyor 	



Questar Exploration and Production Company  
Nageezi Federal 3 #4  
2173' FNL & 1639' FWL  
Sec. 3, T. 23 N., R. 7 W.  
Rio Arriba County, New Mexico

PAGE 2

### 3. PRESSURE CONTROL

The drilling contract has not yet been awarded, thus the exact BOP model to be used is not yet known. A typical 2,000 psi model is on PAGE 3.

A minimum 2,000 psi BOP and choke manifold system will be installed and tested to 2,000 psi before drilling surface casing plug. Test will consist of initially pressuring BOP and ancillary equipment to 250 psi for 5 minutes and then to 2,000 psi for 10 minutes. Casing will be tested for 30 minutes. System will remain in use until the well is completed or abandoned. A safety valve and sub with a full opening valve to fit the drill pipe and collars will be available on the rig floor in the open position at all times for use when kelly is not in use.

All BOP mechanical and pressure tests will be recorded on the driller's log. BOPs will be inspected and opened and closed at least daily to assure good mechanical working order. Inspections will be recorded on the daily drilling report. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place.

### 4. CASING & CEMENT

<u>Hole Size</u>	<u>O.D.</u>	<u>Weight (lb/ft)</u>	<u>Grade</u>	<u>Type</u>	<u>Age</u>	<u>GL Setting Depth</u>
12-1/4"	8-5/8"	24	K-55	ST&C	New	300'
7-7/8"	4-1/2"	11.6	J-55	ST&C	New	5,675'

Surface casing equipment will include Texas pattern guide shoe, one shoe joint, float, and 3 bow spring centralizers. Centralizers will be set 10' above the shoe and on top of the 1st and 3rd joints. Lock bottom two joints and float equipment with thread lock compound. Reciprocate casing 20' while cementing. Land casing so casing head flange will be at ground level.