

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work
DRILL

5. Lease Number
SF-079082A
Unit Reporting Number

1b. Type of Well
GAS

6. If Indian, All. or Tribe

2. Operator
BURLINGTON RESOURCES Oil & Gas Company

7. Unit Agreement Name
Northeast Blanco Unit

3. Address & Phone No. of Operator
PO Box 4289, Farmington, NM 87499
(505) 326-9700

8. Farm or Lease Name
Northeast Blanco Unit

9. Well Number
41A

4. Location of Well
1260' FSL, 1815' FEL
Latitude 36° 51.9, Longitude 107° 37.5

10. Field, Pool, Wildcat
Blanco MV/Basin DK

11. Sec., Twn, Rge, Mer. (NMPM)
Sec. 25, T-31-N, R-8-W
API # 30-045-29968

12. County
San Juan

13. State
NM

14. Distance in Miles from Nearest Town
5 miles to Navajo Dam Post Office

15. Distance from Proposed Location to Nearest Property or Lease Line
1260'

16. Acres in Lease

17. Acres Assigned to Well
~~320.00~~ 308.55/E2

18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease
2300'

19. Proposed Depth
7979'

20. Rotary or Cable Tools
Rotary

21. Elevations (DF, FT, GR, Etc.)
6474' GR

22. Approx. Date Work will Start

23. Proposed Casing and Cementing Program
See Operations Plan attached

24. Authorized by: [Signature]
Regulatory/Compliance Administrator

Date
6-11-99

PERMIT NO. _____

APPROVAL DATE _____

APPROVED BY /s/ Jim Lovato

TITLE _____

DATE OCT 31 2000

Archaeological Report to be submitted

Threatened and Endangered Species Report to be submitted

NOTE: This format is issued in lieu of U.S. BLM Form 3160-3

Title 18 U.S.C. Section 1001, makes 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 presentations as to any matter within its jurisdiction.

District I
PO Box 1980, Hobbs, NM 88241-1980

District II
PO Drawer 00, Artesia, NM 88211-0719

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

District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-1C
Revised February 21, 1992
Instructions on back

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

RECEIVED
BLM

99 AUG - 4 PM 1:32 AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT, NM

API Number 30-045 29968		Pool Code 71599/72319	Pool Name Basin Dakota/Blanco Mesaverde
Property Code 23785	Property Name NORTHEAST BLANCO UNIT		Well Number 41A
GRID No. 14538	Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY		Elevation 6474'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	25	31N	8W		1260	SOUTH	1815	EAST	SAN JUA

11 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

12 Dedicated Acres MV - E/ 308.55 I DK - E/	13 Joint or Infill I	14 Consolidation Code	15 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

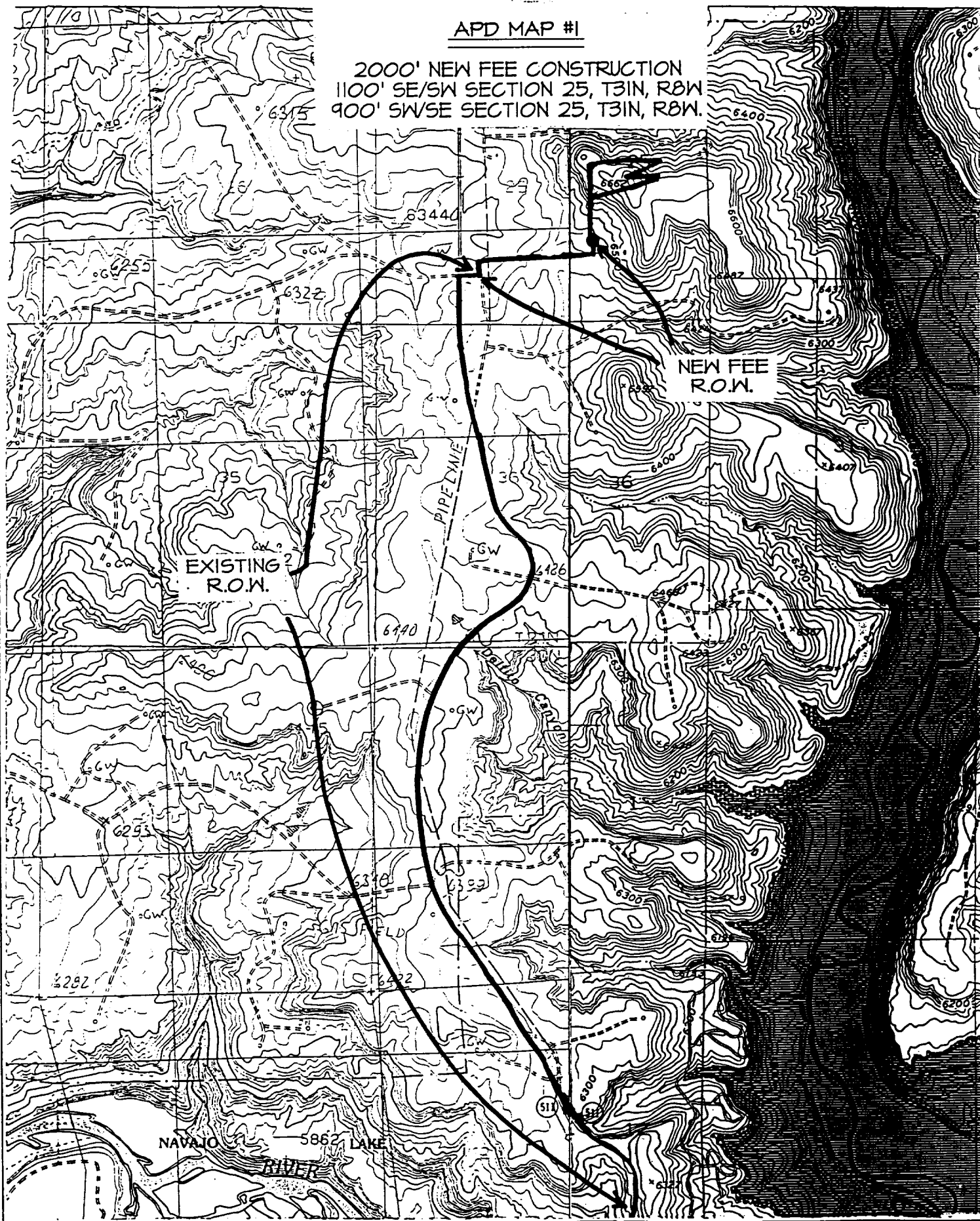
<p>16</p> <p>SF-079082</p> <p>SF-079082-A</p>	<p>17 OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Peggy Bradfield</i> Signature Peggy Bradfield Printed Name Regulatory Administrator Title Date 3-11-99</p>
	<p>18 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 or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>MARCH 5, 1999 Date of Survey</p> <p><i>Neale C. Edwards</i> Signature and Seal of Professional Surveyor</p> <p>NEALE C. EDWARDS NEW MEXICO 6857 Certification Number 6857</p>

BURLINGTON RESOURCES OIL & GAS COMPANY NORTHEAST BLANCO UNIT #41A

1260' FSL & 1815' FEL, SECTION 25, T31N, R8W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO

APD MAP #1

2000' NEW FEE CONSTRUCTION
1100' SE/SW SECTION 25, T31N, R8W
900' SWSE SECTION 25, T31N, R8W.



June 8, 1999

OPERATIONS PLAN

Well Name: Northeast Blanco Unit #41A
Location: 1260' FSL, 1815' FEL, Sec. 25, T-31-N, R-8-W
 San Juan County, NM
 Latitude 36° 51.9 Longitude 107° 37.5
Formation: Blanco Mesa Verde/Basin Dakota
Elevation: 6474'GR

Formation Tops:	Top	Bottom	Contents
Surface	San Jose	2294'	
Ojo Alamo	2294'	2389'	
Kirtland	2389'	2901'	
Fruitland	2901'	3397'	
Pictured Cliffs	3397'	3489'	
Lewis	3489'	4145'	
Intermediate TD	3589'		
Mesa Verde	4145'	4529'	
Chacra	4529'	5319'	
Massive Cliff House	5319'	5377'	
Menefee	5377'	5656'	
Massive Point Lookout	5656'	6061'	
Mancos	6061'	6943'	
Gallup	6943'	7674'	
Greenhorn	7674'	7727'	
Graneros	7727'	7867'	
Dakota	7867'	7949'	
Oak Canyon	7949'	7979'	
Encinal Canyon	7979'		
TD	7979' -		

Logging Program:

Open Hole - Array Ind/Neutron-Density @ Intermediate Casing
 Open Hole - Array Ind/Temp/Neutron-Density @ TD
 Cased Hole - (TDT @ Intermediate Casing to 2389' (if open-hole logs do not go)

Mud Program:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Vis.</u>	<u>Fluid Loss</u>
0- 200'	Spud	8.4-9.0	40-50	no control
200-3589'	LSND	8.4-9.0	30-60	no control
3589-7979'	Gas	n/a	n/a	n/a

Pit levels will be visually monitored to detect gain or loss of fluid control.

Casing Program (as listed, the equivalent, or better):

<u>Hole Size</u>	<u>Depth Interval</u>	<u>Csg.Size</u>	<u>Wt</u>	<u>Grade</u>
12 1/4"	0' - 200'	9 5/8"	32.3#	H-40
8 3/4"	0' - 3589'	7"	20.0#	J-55
6 1/4"	3489' - 7979'	4 1/2"	10.5#	J-55

Tubing Program:

0' - 7979' - 2 3/8" 4.70# EUE

BOP Specifications, Wellhead and Tests:

Surface to Intermediate TD -

11" 2000 psi minimum double gate BOP stack (Reference Figure #1).

After nipple-up prior to drilling out surface casing, rams and casing will be tested to 600 psi for 30 minutes.

BOP Specifications, Wellhead and Tests:

Intermediate TD to Total Depth -

11" 2000 psi minimum double gate BOP stack (Reference Figure #1).

After nipple-up prior to drilling out intermediate casing, rams and casing will be tested to 1500 psi for 30 minutes.

Surface to Total Depth -

2" nominal, 2000 psi minimum choke manifold (Reference Fig #3).

Completion Operations -

7 1/16" 2000 psi double gate BOP stack (Reference Figure #2). After nipple-up prior to completion, pipe rams, casing and liner top will be tested to 2000 psi for 15 minutes.

Wellhead -

9 5/8" x 7" x 2 3/8" x 2000 psi tree assembly.

General -

- Pipe rams will be actuated once each day and blind rams will be actuated once each trip to test proper functioning.
- An upper kelly cock valve with handle available and drill string valves to fit each drill string will be available on the rig floors at all times.
- BOP pit level drill will be conducted weekly for each drilling crew.
- All BOP tests and drills will be recorded in daily drilling reports.
- Blind and pipe rams will be equipped with extension hand wheels.

Cementing:

9 5/8" surface casing - cement with 159 sx Class "B" cement with 1/4# flocele/sx and 2% calcium chloride (188 cu.ft. of slurry, 200% excess to circulate to surface). WOC 8 hrs. Test casing to 600 psi for 30 minutes.

Saw tooth guide shoe on bottom. Bowspring centralizers will be run in accordance with Onshore Order #2.

7" intermediate casing - Lead w/330 sx Class "B" w/3% sodium metasilicate, 10# gilsonite/sx and 1/2# flocele/sx. Tail w/85 sx 50/50 Class "B" Poz w/2% calcium chloride, 1/2# flocele/sx, 10# gilsonite/sx (1079 cu.ft. of slurry, 100% excess to circulate to surface.) WOC minimum of 8 hours before drilling out intermediate casing. If cement does not circulate to surface, a CBL will be run during completion operations to determine TOC. Test casing to 1500 psi for 30 minutes.

Alternate two-stage cement job. Stage tool @ 2800'. Cement 1st stage w/117 sx 50/50 Class "B" poz w/2% calcium chloride, 1/2# flocele/sx, 10# gilsonite/sx. Cement 2nd stage w/289 sx Class "B" cement w/3% sodium metasilicate, 10# gilsonite/sx, 1/2# flocele/sx (1079 cu.ft. of slurry, 100% excess to circulate to surface).

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. Bowspring centralizers spaced every other joint off bottom, to the base of the Ojo Alamo at 2389'. Two turbolating centralizers at the base of the Ojo Alamo at 2389'. Bowspring centralizers spaced every fourth joint from the base of the Ojo Alamo to the base of the surface casing.

4 1/2" Production Liner - Cement to cover minimum of 100' of 4 1/2" x 7" overlap. Cement with 489 sx 50/50 Class "B" Poz with 2% gel, 1/4# flocele/sx, 5# gilsonite/sx, and 0.4% fluid loss additive (645 cu.ft., 40% excess to cement 4 1/2" x 7" overlap). WOC a minimum of 18 hrs prior to completing.

Cement float shoe on bottom with float collar spaced on top of shoe joint.

Note: To facilitate higher hydraulic stimulation completion work, no liner hanger will be used. Instead, a long string of 4 1/2" casing will be run and cemented with a minimum of 100' of cement overlap between the 4 1/2" x 7" casing strings. After completion of the well, a 4 1/2" CIBP will be set above the last fracturing job to cut and pull the 4 1/2" casing above the 7" casing shoe. The 4 1/2" bridge plug will then be milled and tubing will be run for completion.

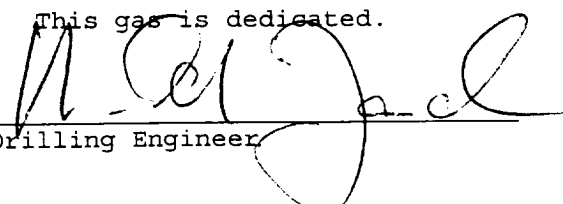
Special Drilling Operations (Gas/Mist Drilling):

- The following equipment will be operational while gas/mist drilling:
- An anchored blooie line will be utilized to discharge all cuttings and circulating medium to the blow pit a minimum of 100' from the wellhead.
- The blooie line will be equipped with an automatic igniter or pilot light.
- Compressors will be located a minimum of 100' from the wellhead in the opposite direction from the blooie line.
- Engines will have spark arresters or water cooled exhaust.
- Deduster equipment will be utilized.
- The rotating head will be properly lubricated and maintained.
- A float valve will be utilized above the bit.
- Mud circulating equipment, water, and mud materials will be sufficient to maintain control of the well.

Additional Information:

- The Mesa Verde and Dakota formations will be completed and commingled.
- No abnormal temperatures or hazards are anticipated.
- Anticipated pore pressures are as follows:

Fruitland Coal	300 psi
Pictured Cliffs	500 psi
Mesa Verde	700 psi
Dakota	2500 psi
- Sufficient LCM will be added to the mud system to maintain well control, if lost circulation is encountered.
- The east half is dedicated to the Mesa Verde and Dakota in this well.
- This gas is dedicated.


Drilling Engineer

6-16-99
Date