

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

11

1a. Type of Work  
DRILL

5. Lease Number  
SF-077282  
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

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

8. Farm or Lease Name  
Grenier A  
Well Number  
2R

4. Location of Well  
1440' FNL, 960' FWL  
Latitude 36° 46.3, Longitude 107° 02' 30"

9. Field, Pool, Wildcat  
Aztec Pictured Cliffs  
11. Sec., Twn, Rge, Mer. (NMPM)  
Sec. 34, T-30-N, R-10-W  
API # 30-045-30251

14. Distance in Miles from Nearest Town  
5 miles from Blanco

12. County  
San Juan

13. State  
NM

15. Distance from Proposed Location to Nearest Property or Lease Line  
960'

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

17. Acres Assigned to Well  
160 NW/4

18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease  
300'

19. Proposed Depth  
2687'

20. Rotary or Cable Tools  
Rotary

21. Elevations (DF, FT, GR, Etc.)  
6013' GL

22. Approx. Date Work will Start  
DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS"

23. Proposed Casing and Cementing Program  
See Operations Plan attached

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

Date 5-11-00

PERMIT NO. \_\_\_\_\_

APPROVAL DATE \_\_\_\_\_

APPROVED BY J.L.

TITLE \_\_\_\_\_

DATE 8-9-00

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.

NMOCD

Submitted in lieu of Form 3160-5

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells

1. Type of Well  
GAS

2. Name of Operator

**BURLINGTON  
RESOURCES**

OIL & GAS COMPANY

3. Address & Phone No. of Operator

PO Box 4289, Farmington, NM 87499 (505) 326-9700

4. Location of Well, Footage, Sec., T, R, M

1440' FNL, 960' FWL, Sec. 34, T-30-N, R-10-W, NMPM

5. Lease Number

SF-077282

6. If Indian, All. or  
Tribe Name

7. Unit Agreement Name

8. Well Name & Number  
Grenier A #2R

9. API Well No.  
30-045-30251

10. Field and Pool  
Aztec Pictured Cliffs

11. County and State  
San Juan Co, NM

12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA

Type of Submission

☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment

Type of Action

☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☒ Altering Casing  
☐ Other -  
☒ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut off  
☐ Conversion to Injection

13. Describe Proposed or Completed Operations

It is intended to alter the casing and cementing program of the subject well.  
Attached is the revised operations plan.

14. I hereby certify that the foregoing is true and correct.

Signed [Signature] Title Regulatory Supervisor Date 7/13/00  
TLW

(This space for Federal or State Office use)

APPROVED BY /s/ Jim Lovato Title Team Lead, Petroleum Management Date AUG - 9

CONDITION OF APPROVAL, if any:

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 representations as to any matter within its jurisdiction.

NMOCD

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

District II  
PO Drawer DD, 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

Form C-102

Revised February 21, 1994

Instructions on back

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

PO Box 2088  
Santa Fe, NM 87504-2088

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-30251		*Pool Code 71280		*Pool Name Aztec Pictured Cliffs	
*Property Code 18531		*Property Name GRENIER A			*Well Number 2R
*OGRID No. 14538		*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY			*Elevation 6013'

<sup>10</sup> Surface Location

U. or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	34	30N	10W		1440	NORTH	960	WEST	SAN JUAN

<sup>11</sup> Bottom Hole Location If Different From Surface

U. or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

<sup>12</sup> Dedicated Acres NW/160	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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

<sup>16</sup> 2607.00' 1440' 960' LAT: 36°46.3'N LONG: 107°52.7'W SF-077282		2624.15' LOT 2 LOT 1	
5278.68'		5277.36'	
LOT 8 LOT 7		LOT 6 LOT 5	
LOT 9 LOT 10		LOT 11 LOT 12	
5228.52'			

**17 OPERATOR CERTIFICATION**  
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

*Peggy Cole*  
Signature  
Peggy Cole  
Printed Name  
Regulatory Administrator  
Title  
5-11-00  
Date

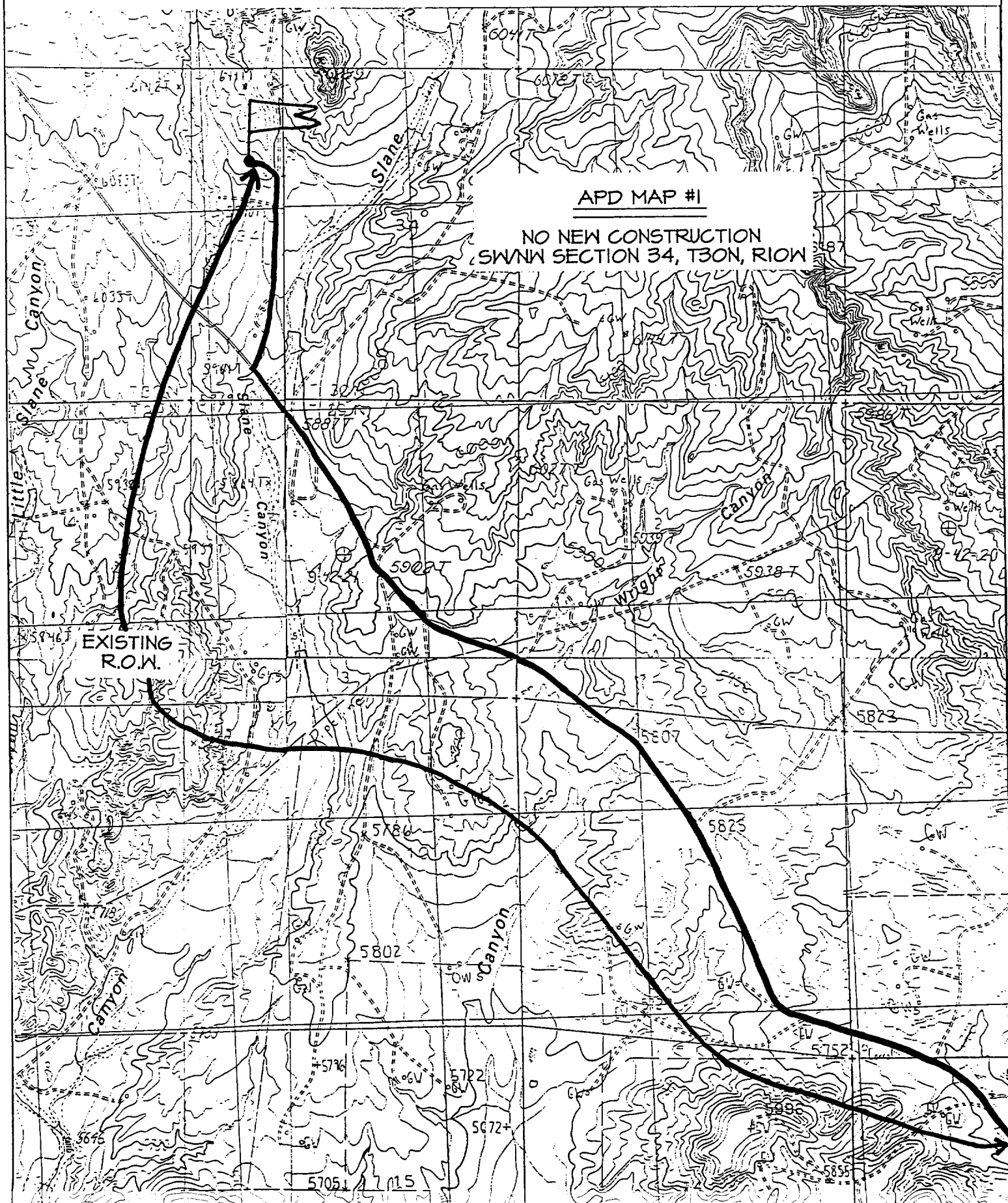
**18 SURVEYOR CERTIFICATION**  
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

FEBRUARY 28, 2000  
Date of Survey  
Signature and Seal of  
NEALE C. EDWARDS  
NEW MEXICO  
6857  
Certificate Number 6857

1440' FNL & 960' FNL, SECTION 34, T30N, R10W, N.M.P.M.  
SAN JUAN COUNTY, NEW MEXICO

NO NEW CONSTRUCTION  
SWNW SECTION 34, T30N, R10W

EXISTING  
R.O.W.



## OPERATIONS PLAN

**Well Name:** Grenier A #2R  
**Location:** 1440' FNL, 960' FWL, Section 34, T-30-N, R-10-W  
San Juan County, New Mexico  
Latitude 36° 46.3, Longitude 107° 52.7  
**Formation:** Aztec Pictured Cliffs  
**Elevation:** 6013' GL

<b>Formation:</b>	<b>Top</b>	<b>Bottom</b>	<b>Contents</b>
Surface	San Jose	1210'	
Ojo Alamo	1210'	1323'	aquifer
Kirtland	1323'	1813'	gas
Fruitland	1813'	2487'	gas
Pictured Cliffs	2487'		gas
<b>Total Depth</b>	<b>2687'</b>		

**Logging Program:** cased hole - CCL-GR TD to surface

**Coring Program:** None

**Mud Program:**

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Vis.</u>	<u>Fluid Loss</u>
0- 120'	Spud	8.4-9.0	40-50	no control
120-2687'	FW	8.4-9.0	32-45	no control

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

<u>Hole Size</u>	<u>Depth Interval</u>	<u>Csq. Size</u>	<u>Wt.</u>	<u>Grade</u>
8 3/4"	0 - 120'	7"	20#	J-55
6 1/4"	0 - 2687' —	2 7/8"	6.5#	J-55

**Float Equipment:** 7" surface casing - saw tooth guide shoe.  
Centralizers will be run in accordance with Onshore Order #2.

2 7/8" production casing - float shoe on bottom. Three centralizers run every other joint above shoe. Seven centralizers run every 3rd joint to the base of the Ojo Alamo @ 890. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 1323'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

**Wellhead Equipment:** 7" x 2 7/8" 2000 psi screw on independent wellhead.

**Cementing:**

7" surface casing - cement with 46 sx Class "B" cement with 1/4# flocele/sx and 3% calcium chloride (54 cu.ft. of slurry, 200% excess to circulate to surface). WOC 8 hrs. Test casing to 600 psi for 30 minutes.

2 7/8" production casing - Lead w/272 sx Class "B" w/3% sodium metasilicate, 1/2 pps cellophane, 10 pps gilsonite and 0.1% antifoam. Tail w/90 sx 50/50 Class "B" Poz w/2% gel, 2% calcium chloride, 1/4 pps cellophane, 5 pps gilsonite and 0.1% antifoam (902 cu.ft. of slurry,

100% excess to circulate to surface). WOC 8 hrs. If cement does not circulate to surface, a CBL will be run during completion to determine TOC.

**BOP and tests:**

Surface to TD - 11" 2000 psi (minimum double gate BOP stack (Reference Figure #1 and #2). Prior to drilling out surface casing, test rams to 600 psi/30 min.

Completion - 6" 2000 psi (minimum) double gate BOP stack (Reference Figure #2). Prior to completion operations, test rams and casing to 2000 psi/15 min.

From surface to TD - choke manifold (Reference Figure #3).

Pipe rams will be actuated to least once each day and blind rams actuated once each trip to test proper functioning. An upper kelly cock valve with handle and drill string safety valves to fit each drill string will be maintained and available on the rig floor.

**Additional information:**

- \* The Pictured Cliffs formation will be completed.
- \* Anticipated pore pressure for the Pictured Cliffs is 600 psi.
- \* This gas is dedicated.
- \* The northwest quarter of Section 34 is dedicated to the Pictured Cliffs.

Steve Campbell  
Drilling Engineer

7/13/2000  
Date