

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work
DRILL ✓

1b. Type of Well
GAS ✓

2. 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
1300' FSL, 1115' FWL
Latitude 36° 35.2, Longitude 107° 55.4

5. Lease Number
SF-077875
Unit Reporting Number

6. If Indian, All. or Tribe

7. Unit Agreement Name

8. Farm or Lease Name
Rowley

9. Well Number
#2R

10. Field, Pool, Wildcat
Fulcher Kutz Pict'd Cliffs

11. Sec., Twn, Rge, Mer. (NMPM)
Sec. 8, T. 27-N, R. 10-W
API # 30-045-30212

12. County
San Juan

13. State
NM

14. Distance in Miles from Nearest Town
8 mi from Bloomfield

15. Distance from Proposed Location to Nearest Property or Lease Line
1115'

16. Acres in Lease

17. Acres Assigned to Well
160 SW/4

18. Distance from Proposed Location to Nearest Well, Drg., Compl., or Applied for on this Lease
250'

19. Proposed Depth
1925' ✓

20. Rotary or Cable Tools
Rotary

21. Elevations (DF, FT, GR, Etc.)
5905' GL ✓

22. Approx. Date Work will Start

23. Proposed Casing and Cementing Program
See Operations Plan attached

24. Authorized by: Harry Cole
Regulatory/Compliance Administrator

3-23-00
Date

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

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY /s/ Jim Lovato TITLE _____ DATE JUN 1 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.

OK

MOCD

CP

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

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

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

OIL CONSERVATION DIVISION

PO Box 2088
Santa Fe, NM 87504-2088

200 APR -5 PM 1:22

AMENDED REPORT

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-30212	*Pool Code 77200	*Pool Name Fulcher Kutz Pictured Cliffs
*Property Code 7443	*Property Name ROWLEY	*Well Number 2R
*OGRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY	*Elevation 5905'

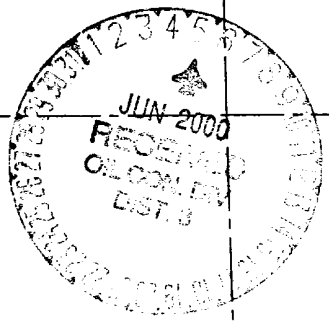
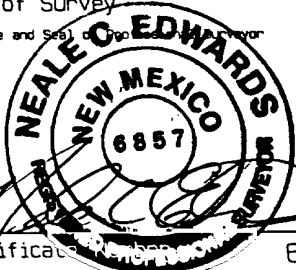
¹⁰ Surface Location

U. or lot no.	Section	Township	Range	Lot 1st	Feet from the	North/South line	Feet from the	East/West line	County
M	8	27N	10W		1300	SOUTH	1115	WEST	SAN JUAN

¹¹ Bottom Hole Location If Different From Surface

U. or lot no.	Section	Township	Range	Lot 1st	Feet from the	North/South line	Feet from the	East/West line	County
¹² Dedicated Acres SW/160		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ 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

¹⁶ 5280.00' 5280.00' 1115' 1300' 5277.36'	5280.00'		¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief Signature <u>Peggy Cole</u> Printed Name Peggy Cole Title Regulatory Administrator Date <u>3-23-00</u>
	8	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. JANUARY 21, 2000 Date of Survey Signature and Seal of Surveyor  Certificate Number 6857	

OPERATIONS PLAN

Well Name: Rowley #2R
Location: 1300' FSL, 1115' FWL Section 8, T-27-N, R-10-W
San Juan County, New Mexico
Latitude 36° 35.2', Longitude 107° 55.4'
Formation: Fulcher Kutz Pictured Cliffs
Elevation: 5905' GL

Formation:	Top	Bottom	Contents
Surface	Nacimiento	680'	
Ojo Alamo	680'	822'	aquifer
Kirtland	822'	1254'	
Fruitland	1254'	1725'	gas
Pictured Cliffs	1725'		gas
Total Depth	1925'		

Logging Program: cased hole: GR/CCL

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
120-1925'	LSND	8.4-9.0	40-60	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>
7 7/8"	0 - 120'	5 1/2"	15.5#	J-55
4 3/4"	0 - 1925'	2 7/8"	6.4#	J-55

Float Equipment: 5 1/2" 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 @ 822'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 822'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

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

Cementing:

5 1/2" surface casing - cement with 53 sx Class "B" cement with 1/4# flocele/sx and 3% calcium chloride (63 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/81 sx Class "B" w/3% sodium metasilicate, 1/4 pps cellophane and 5 pps gilsonite. Tail w/50 sx 50/50 Class "B" Poz w/2% gel, 1/4 pps cellophane, 5 pps gilsonite and 2% calcium chloride (300 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 southwest quarter of section 8 is dedicated to the Pictured Cliffs.

Steve Gohell
Drilling Engineer

4/3/2000
Date

BURLINGTON RESOURCES OIL & GAS COMPANY ROWLEY #2R

1300' FSL & 1115' FWL, SECTION 8, T27N, R10W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO

APD MAP #1

NO NEW CONSTRUCTION
SW/4 SECTION 8, T27N, R10W

