

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-077317 Unit Reporting Number
1b. Type of Well GAS	6. If Indian, All. or Tribe
2. Operator <b>BURLINGTON RESOURCES</b> 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 Cooper 9. Well Number #2R
4. Location of Well 1000' FSL, 865' FWL Latitude 36° 44.1, Longitude 108° 02.3	10. Field, Pool, Wildcat Fulcher Kutz Pict'd Cliffs - 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 7, T-29-N, R-11-W API # 30-045-30468
14. Distance in Miles from Nearest Town 4.8 miles to Bloomfield P.O.	12. County San Juan 13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 865'	
16. Acres in Lease	17. Acres Assigned to Well 154.84 SW/4 -
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 2470'	
19. Proposed Depth 2013' -	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 5661' GR	22. Approx. Date Work will Start
23. Proposed Casing and Cementing Program See Operations Plan attached	DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS"
24. Authorized by: <u>[Signature]</u> Regulatory/Compliance Supervisor	Date <u>11-9-00</u>

PERMIT NO. \_\_\_\_\_ APPROVAL DATE 1/12/01  
APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE 1/12/01

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  
P.O. Box 1980, Hobbs, N.M. 88241-1980

DISTRICT II  
P.O. Drawer DD, Artesia, N.M. 88211-0719

DISTRICT III  
1000 Rio Brazos Rd., Aztec, N.M. 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

P.O. Box 2088  
Santa Fe, NM 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-045-30468	<sup>2</sup> Pool Code 77200	<sup>3</sup> Pool Name Fulcher Kutz Pictured Cliffs
<sup>4</sup> Property Code 18498	<sup>5</sup> Property Name COOPER	<sup>6</sup> Well Number 2R
<sup>7</sup> GRID No. 14538	<sup>8</sup> Operator Name BURLINGTON RESOURCES OIL & GAS INC.	<sup>9</sup> Elevation 5661'

<sup>10</sup> Surface Location

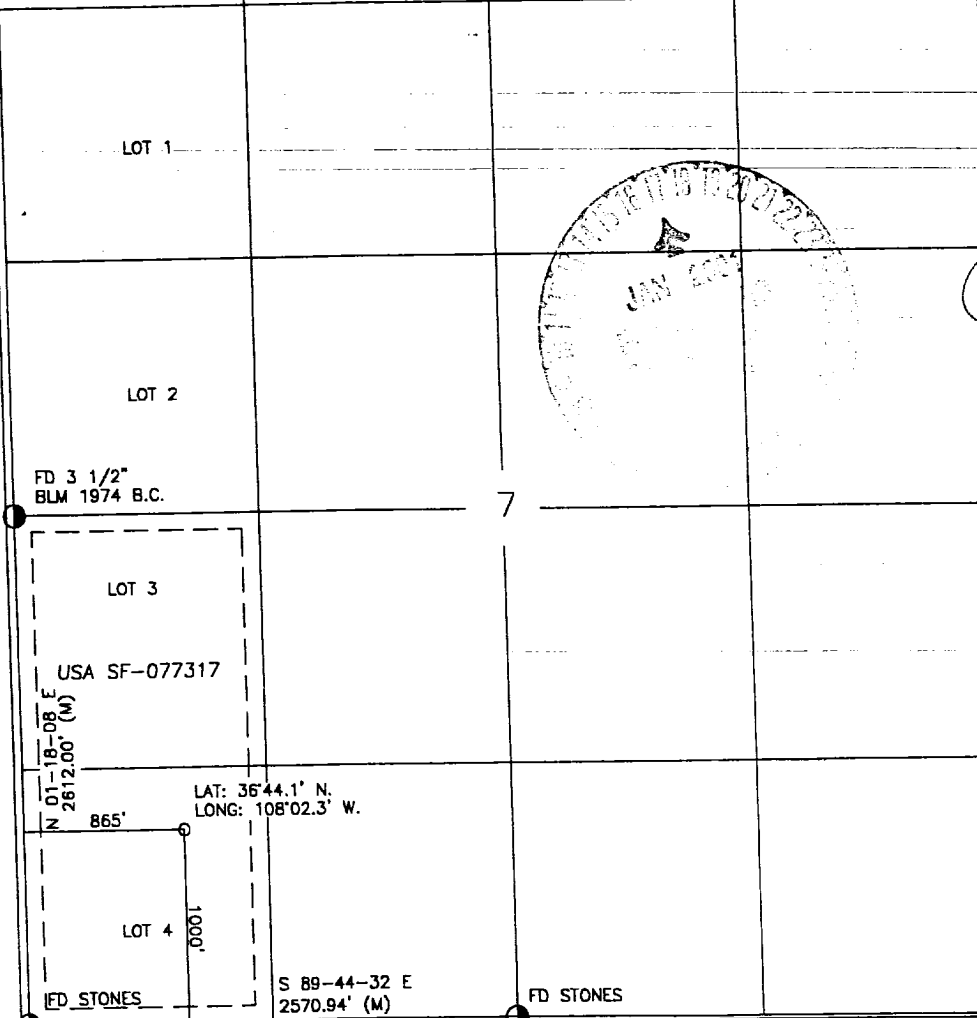
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	7	29-N	11-W		1000	SOUTH	865	WEST	SAN JUAN

<sup>11</sup> 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
<sup>12</sup> Dedicated Acres SW/154.84			<sup>13</sup> Joint or Infill		<sup>14</sup> Consolidation Code		<sup>15</sup> 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

				<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><u>Peggy Cole</u> Signature Peggy Cole Printed Name Regulatory Supervisor Title 11-9-00 Date</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 me or under my supervision, and that the same is true and correct to the best of my belief</p> <p>9- Date of Survey Signature and Seal of Professional Surveyor 8894 Certificate Number</p>					



## OPERATIONS PLAN

**Well Name:** Cooper #2R  
**Location:** 1000' FSL, 865' FWL, Section 7, T-29-N, R-11-W  
San Juan County, New Mexico  
Latitude 36° 44.1, Longitude 108° 02.3  
**Formation:** Fulcher Kutz Pictured Cliffs  
**Elevation:** 5661' GR

Formation:	Top	Bottom	Contents
Surface	San Jose	469'	
Ojo Alamo	469'	639'	aquifer
Kirtland	639'	1243'	gas
Fruitland	1243'	1813'	gas
Pictured Cliffs	1813'		gas
<b>Total Depth</b>	<b>2013'</b>		

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

**Coring Program:** None

**Mud Program:**

Interval	Type	Weight	Vis.	Fluid Loss
0- 120'	Spud	8.4-9.0	40-50	no control
120-2013'	FW	8.4-9.0	32-45	no control

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

Hole Size	Depth Interval	Csg. Size	Wt.	Grade
8 3/4"	0 - 120'	7"	20#	J-55
6 1/4"	0 - 2013'	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 @ 639. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 639'. 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/191 sx Class "B" w/3% sodium metasilicate, 1/2 pps flocele, 10 pps gilsonite. Tail w/90 sx 50/50 Class "B" Poz w/2% gel, 2% calcium chloride, 1/4 pps flocele, 5 pps gilsonite (677 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.

Note: If open hole logs are run, cement volumes will be based on 25% excess over caliper volumes.

**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 500 psi.
- \* This gas is dedicated.
- \* The southwest quarter of Section 7 is dedicated to the Pictured Cliffs.

Eric J. Giles  
Drilling Engineer

11/15/00  
Date