

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	Lease Number SF-077951
1b. Type of Well GAS	Unit Reporting Number
2. Operator BURLINGTON RESOURCES Oil & Gas Company	6. If Indian, All. or Tribe
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	7. Unit Agreement Name
4. Location of Well 845' FSL, 1375' FWL Latitude 36° 32.5, Longitude 107° 52.2	8. Farm or Lease Name Graham
	9. Well Number #1R
10. Field, Pool, Wildcat Fulcher Kutz Pict'd Cliifs	11. Sec., Twn, Rge, Mer. (NMPM) N Sec. 26, T-27-N, R-10-W API # 30-045-30185
14. Distance in Miles from Nearest Town 13 mi from Bloomfield	12. County San Juan
	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 845'	
16. Acres in Lease	17. Acres Assigned to Well 160 SW/4
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 500'	
19. Proposed Depth 2633'	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6677'	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: <i>[Signature]</i> Regulatory/Compliance Administrator	Date 2-19-00

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY */s/ Jim Lovato* TITLE _____ DATE JUL 12 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.

NMOC

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

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

Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-30185		*Pool Code 77200 -	*Pool Name Fulcher Kutz Pictured Cliffs -
*Property Code 7052	*Property Name GRAHAM		*Well Number 1R
*OGRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY		*Elevation 6677 -

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot 10n	Feet from the	North/South line	Feet from the	East/West line	County
N	26	27N	10W		845	SOUTH	1375	WEST	SAN JUAN

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot 10n	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

<p>¹⁶</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 Cole</i> Signature Peggy Cole Printed Name Regulatory Administrator Title 2-19-00 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>JANUARY 26, 2000 Date of Survey <i>Neale C. Edwards</i> Signature and Seal NEALE C. EDWARDS NEW-MEXICO 6857 CERTIFIED PROFESSIONAL SURVEYOR Certificate Number 6857</p>

OPERATIONS PLAN

Well Name: Graham #1R
Location: 845' FSL, 1375' FWL, Section 26, T-27-N, R-10-W
San Juan County, New Mexico
Latitude 36° 32.5, Longitude 107° 52.2
Formation: Fulcher Kutz Pictured Cliffs
Elevation: 6677' GL

Formation:	Top	Bottom	Contents
Surface	San Jose	1458'	
Ojo Alamo	1458'	1604'	aquifer
Kirtland	1604'	1984'	gas
Fruitland	1984'	2433'	gas
Pictured Cliffs	2433'		gas
Total Depth	2633'		

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
120-2633'	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>
7 7/8"	0 - 120'	5 1/2"	15.5#	J-55
4 3/4"	0 - 2633' ✓	2 7/8"	6.4#	J-55

Tubing Program: 2 3/8" 4.7# J-55 to TD

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 @ 1604'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 1604'. 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 (62 cu.ft. of slurry, 200% excess to circulate to surface). WOC 8 hrs. Test casing to 600 psi for 30 minutes.

Graham #1R

2 7/8" production casing - Lead w/119 sx Class "B" w/3% sodium metasilicate, 1/4 pps cellophane and 10 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 (411 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 26 is dedicated to the Pictured Cliffs.

Steve Cepbell
Drilling Engineer

2/16/2000
Date

845' FSL & 1375' FWL, SECTION 26, T27N, R10W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO

150' NEW BLM CONSTRUCTION
SW/SW SECTION 26, T27N, R10W

