

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	2002 MAY 23 PM 1:26 070 Farmington, NM	5. Lease Number NMSF-078881 Unit Reporting Number 891001059B
1b. Type of Well GAS		6. If Indian, All. or Tribe
2. Operator BURLINGTON RESOURCES Oil & Gas Company		7. Unit Agreement Name Canyon Largo Unit
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700		8. Farm or Lease Name Canyon Largo Unit 9. Well Number 452
4. Location of Well 1365' FSL, 700' FEL Latitude 36° 24.6, Longitude 107° 31.2		10. Field, Pool, Wildcat Basin Dakota 11. Sec. 12, T-25-N, R-7-W API # 30-039- 27018
14. Distance in Miles from Nearest Town 34 miles from Blanco	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 700'		
16. Acres in Lease	17. Acres Assigned to Well 320 E/2	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 2946'		
19. Proposed Depth 7620'	This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6983' 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>Regulatory/Compliance Supervisor</u>		2-6-02 Date

PERMIT NO. _____

APPROVAL DATE

MAY 06 2003

APPROVED BY Original Signed: Stephen Mason

TITLE

AFM

DATE

MAY 06 2003

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.

NMOCQ

DISTRICT H
811 South First, Artesia, N.M. 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87505

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039- 27018		*Pool Code 71599	*Pool Name Basin Dakota	
*Property Code 6886	*Property Name CANYON LARGO UNIT			*Well Number 452
*OGRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS, INC.			*Elevation 6983'

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
1	12	25-N	7-W		1365	SOUTH	700	EAST	RIO ARriba

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
13 Dedicated Acres DK - E/320			14 Joint or Infill		15 Consolidation Code		16 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

12

MAY 2001

USA SF-078881

FD 3 1/2" BLM BC. 1965

LAT. 36-24-37 N
LONG. 107-31-11 W
(NAD 1927)

1235'

2600.46' (M)

593'

700'

65°

1365'

2002 MAY 23 PM 1:27

RECEIVED

FD 3 1/2" BLM BC. 1965

N 89-52-28 W 2586.86' (M)

FD 3 1/2" BLM BC. 1965

17 OPERATOR CERTIFICATION

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

Signature

Peggy Cole

Printed Name _____

Regulatory Supervisor

Title

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.

Date of Survey _____

Signature and Seal of Professional Surveyor

Certificate Number

OPERATIONS PLAN

Well Name: Canyon Largo Unit #452
Location: 1365' FSL, 700' FEL, Sec 12, T-25-N, R-7-W
Rio Arriba County, NM
Latitude 36° 24.6, Longitude 107° 31.2
Formation: Basin Dakota
Elevation: 6983' GL

<u>Formation</u>	<u>Tops:</u>	<u>Top</u>	<u>Bottom</u>	<u>Contents</u>
Surface		San Jose	2248'	
Ojo Alamo		2248'	2448'	aquifer
Kirtland		2448'	2648'	gas
Fruitland		2648'	2913'	gas
Pictured Cliffs		2913'	3048'	gas
Lewis		3048'	3308'	gas
Huerfanito Bentonite		3308'	3769'	gas
Chacra		3769'	4473'	gas
Massive Cliff House		4473'	4543'	gas
Menefee		4543'	5166'	gas
Massive Point Lookout		5166'	5403'	gas
Mancos		5403'	6756'	gas
Gallup		6756'	7138'	gas
Greenhorn		7138'	7190'	gas
Graneros		7190'	7231'	gas
Dakota		7231'	7560'	gas
Morrison		7560'		
TD		7620'		

Logging Program:

Open hole - Neutron-Density, Microlog - TD to minimum operations depth, DIL-GR - TD to surface
Cased hole - CBL-CCL-GR - TD to surface
Cores - none
Mud log - TD to 6700'

Mud Program:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Vis.</u>	<u>Fluid Loss</u>
0- 320'	Spud	8.4-8.9	40-50	no control
320- 7620'	LSND	8.4-9.0	40-60	8-12

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

Casing Program:

<u>Hole Size</u>	<u>Depth Interval</u>	<u>Csg. Size</u>	<u>Wt.</u>	<u>Grade</u>
12 1/4"	0' - 320'	8 5/8"	24.0#	WC-50
7 7/8"	0' - 7620'	4 1/2"	11.6#	N-80

Tubing Program:

0' - 7620' 2 3/8" 4.7# J-55

BOP Specifications, Wellhead and Tests:

Surface to TD -

11" 3000 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.

2" nominal, 3000 psi minimum choke manifold (Reference Figure #3).

Completion Operations -

6" 3000 psi double gate BOP stack (Reference Figure #2).
After nipple-up prior to completion, pipe rams and casing top will be tested to 3000 psi for 15 minutes.

Surface to Total Depth -

2" nominal, 3000 psi minimum choke manifold (Reference Figure #3).

Wellhead -

8 5/8" x 4 1/2" x 1 1/2" x 1 1/2" x 3000 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.
- A BOP pit level drill will be conducted weekly for each drilling crew.
- All of the BOP tests and drills will be recorded in the daily drilling reports.
- Blind and pipe rams will be equipped with extension hand wheels.

Cementing:

8 5/8" surface casing -

Cement to surface w/336 sx Class "B" cement w/3% calcium chloride and 1/4#/sx cellophane flakes (396 cu.ft. of slurry, 200% excess to circulate to surface.) WOC 8 hr prior to drilling out surface casing. 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.

Production Casing - 4 1/2"

Lead with 800 sx 9.5 ppg Litecrete Blend w/0.11% dispersant, 0.5% fluid loss. Tail w/407 sx Class "G" cement w/5% gel, 0.25 pps Celloflake, 5 pps Gilsonite, 0.25 pps fluid loss, 0.15% dispersant, 0.1% retardant, 0.1% antifoam (Slurry volume: 2603 cu.ft. Excess slurry 50%).

Alternate Two-stage cement job as follows:

First Stage: Cement to circulate to stage tool @ 5066'. Lead with 605 sx Class "G" 50/50 poz w/5% gel, 0.25 pps Celloflake, 5 pps Gilsonite, 0.25 pps Fluid loss, 0.15% dispersant, 0.1% retarder. WOC 4 hours prior to pumping second stage. (Slurry volume: 872 cu.ft. Excess slurry 50%.)

Second Stage: Cement to circulate to surface. Cement with 670 sx Class "G" TXI Liteweight cement w/2.5% sodium metasilicate, 2% calcium chloride, 10 pps Gilsonite, 0.5 pps Celloflake, 0.2% antifoam. WOC a minimum of 18 hours prior to cleanout. (Slurry volume: 1731 cu.ft. Excess slurry: 50%.)

Float shoe on bottom. Three centralizers run every other joint above shoe. Thirty-five centralizers - one every 4th joint to the base of the Ojo Alamo @ 2448'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 2448'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

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

*TOC must tie in 100' in
w/ surface
CSG*