

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-078881 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 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 450
4. Location of Well 0.0 FNL, 1020' FWL 800' 1085' Latitude 36° 26.0, Longitude 107° 31.9	10. Field, Pool, Wildcat Basin Dakota 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 1, T-25-N, R-7-W API # 30-039-26515
14. Distance in Miles from Nearest Town 26 miles from Blanco	12. County Rio Arriba 13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 915'	
16. Acres in Lease	17. Acres Assigned to Well 312.72 W/2
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 1000'	
19. Proposed Depth 6950' —	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6284' GR 6291'	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><i>Regan Cole</i></u> Regulatory/Compliance Administrator	<u>2-3-00</u> Date

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY TL TITLE _____ DATE 8-24-00

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 Well **NEW 14 PM 1:10**

070 FARMINGTON, NM

1. Type of Well
GAS

Lease Number
SF-078881
6. If Indian, All. or
Tribe Name

2. Name of Operator

**BURLINGTON
RESOURCES**

OIL & GAS COMPANY

7. Unit Agreement Name

3. Address & Phone No. of Operator

PO Box 4289, Farmington, NM 87499 (505) 326-9200

Canyon Largo Unit
Well Name & Number
Canyon Largo U #450
9. API Well No.
30-039- **76515**

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

800' FNL, 1085' FWL, Sec.1, T-25-N, R-7-W, NMPM

10. Field and Pool

Basin Dakota

11. County and State

Rio Arriba Co, NM

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

Type of Submission

Type of Action

<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input checked="" type="checkbox"/> Change of Plans
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other -	

13. Describe Proposed or Completed Operations

The location of the subject well has been moved to 800' FNL, 1085' FWL from 915' FNL, 1010' FWL at the request of the BLM. Attached is new C-102 plat, cut and fill diagram and topographical map.

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

Signed *Gregg Cole* (CDS) Title Regulatory Supervisor Date 3/14/00
no

(This space for Federal or State Office use)

APPROVED BY */s/ Jim Lovato* Title _____ Date AUG 29 2000

CONDITION OF APPROVAL, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

NM000

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

200 MAR 14 PM 1:10

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-26515	² Pool Code 71599	³ Pool Name Basin Dakota
⁴ Property Code 6886	⁵ Property Name CANYON LARGO UNIT	⁶ Well Number 450
⁷ GRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY	⁹ Elevation 6291'

¹⁰ Surface Location

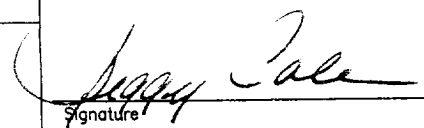
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	1	25-N	7-W		800	NORTH	1085	WEST	RIO ARRIBA

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

¹² Dedicated Acres W/312.72	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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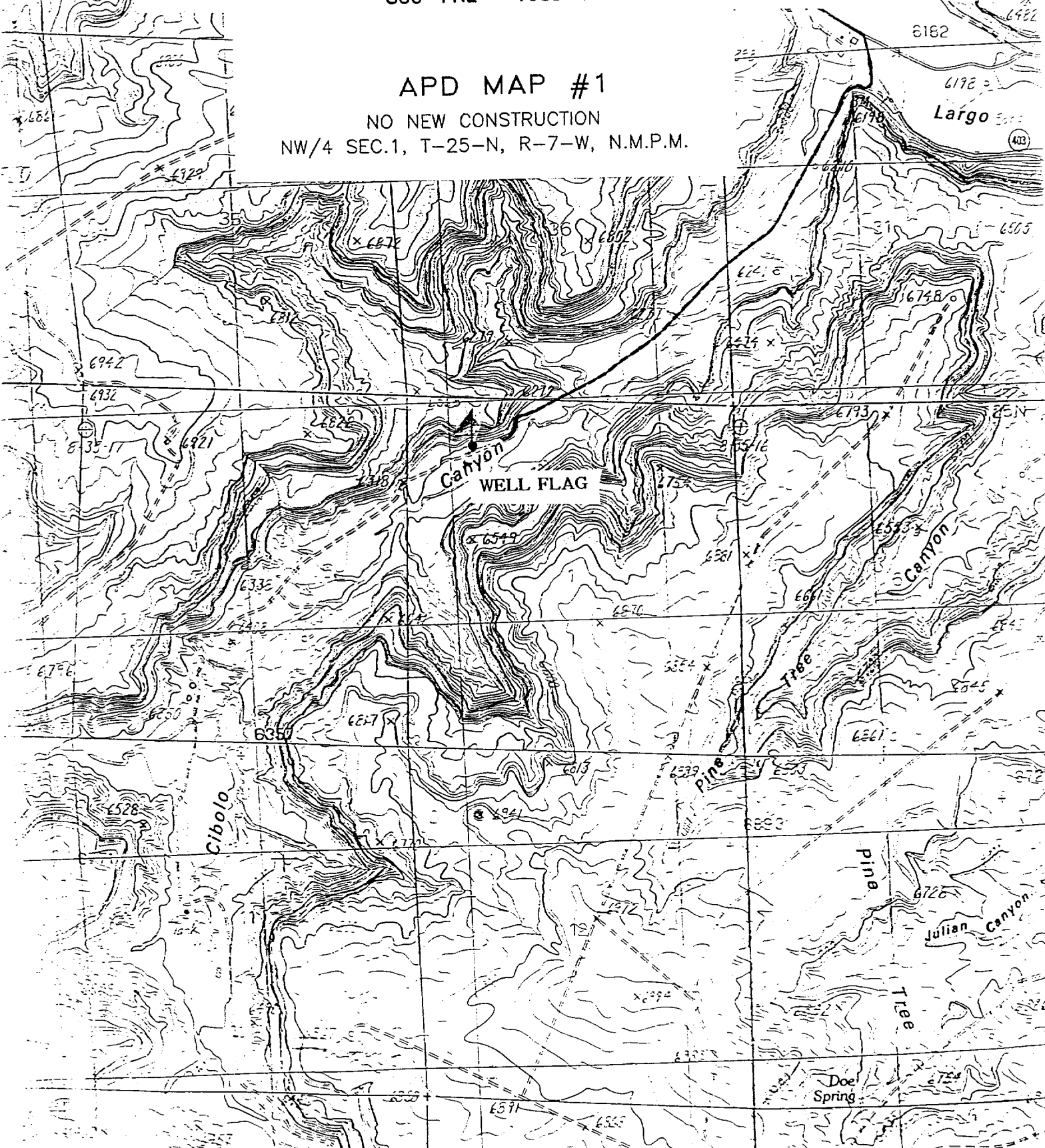
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<div>16 FD. 1954 BLM BRASS CAP 800' 1085' 2593.24' S 01-24-18 W LOT 8 LOT 9 LOT 10 SF-078881 FD. 1965 BLM BRASS CAP</div>	<div>S 89-34-49 E 2547.87' (M.) LOT 7 LAT. 36° 26.0' N LONG. 107° 31.9' W</div>	<div>FD. 1954 BLM BRASS CAP LOT 6 LOT 5 LOT 11 LOT 12</div>	<div>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 3-14-00 Date</div>
<div>1 AUG 2000 RECEIVED OIL CON. DIV DIST. 8</div>			<div>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. 3-2-ROY A. RUSH Date of Survey Signature and Seal of Professional Surveyor 8894 Certificate Number</div>

NO NEW CONSTRUCTION
NW/4 SEC.1, T-25-N, R-7-W, N.M.P.M.

NO NEW CONSTRUCTION

NW/4 SEC.1, T-25-N, R-7-W, N.M.P.M.



OPERATIONS PLAN

Well Name: Canyon Largo Unit #450
Location: 915' FNL, 1010' FWL, Sec 1, T-25-N, R-7-W
Rio Arriba County, NM
Latitude 36° 26.0, Longitude 107° 31.9
Formation: Basin Dakota
Elevation: 6284' GL

<u>Formation Tops:</u>	<u>Top</u>	<u>Bottom</u>	<u>Contents</u>
Surface	San Jose	1549'	
Ojo Alamo	1549'	1775'	aquifer
Kirtland	1775'	2005'	gas
Fruitland	2005'	2290'	gas
Pictured Cliffs	2290'	2389'	gas
Lewis	2389'	2662'	
Mesa Verde	2662'	3128'	gas
Chacra	3128'	3832'	gas
Massive Cliff House	3832'	3929'	gas
Menefee	3929'	4537'	gas
Massive Point Lookout	4537'	4766'	gas
Mancos	4766'	5623'	gas
Gallup	5623'	6492'	gas
Greenhorn	6492'	6546'	gas
Graneros	6546'	6586'	gas
Dakota	6586'		gas
TD	6950'		

Logging Program:

Open hole - Platform Express, CMR, FMI from TD to intermediate casing
Cased hole - CBL-CCL-GR - TD to surface
Cores - to be determined
Mud log - 6000' to TD

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
320-695'	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' - 6950'	4 1/2"	10.5#	J-55

Tubing Program:

0' - 6950' 2 3/8" 4.7# J-55 EUE

BOP Specifications, Wellhead and Tests:

Surface to TD -

11" 2000 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, 2000 psi minimum choke manifold (Reference Figure #3).

Completion Operations -

6" 2000 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, 2000 psi minimum choke manifold (Reference Figure #3).

Wellhead -

8 5/8" x 4 1/2" x 2 3/8" 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"

Two-stage cement job as follows:

First Stage: Cement to circulate to stage tool @ 3028'. Lead with 993 sx Class "B" 50/50 poz with 2% gel, 0.25 pps Cellophane, 5 pps Kolite, 0.4% D-60, 0.2% D-65. WOC 4 hours prior to pumping second stage. (Slurry volume: 1340 cu.ft. Excess slurry 50%.)

Second Stage: Cement to circulate to surface. Cement with 359 sx Class "B" with 3% sodium metasilicate, 0.25 pps cellophane, 5 pps Kolite. WOC a minimum of 18 hours prior to cleanout. (Slurry volume: 1035 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 @ 1775'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 1775'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.