

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-076465
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

3. Address & Phone No. of Operator
PO Box 4289, Farmington, NM 87499
(505) 326-9700

8. Farm or Lease Name
Cornell

9. Well Number
#100

4. Location of Well
895' FNL, 745' FEL
875' 1675' 1675'
Latitude 36° 44.7, Longitude 108° 04.8

10. Field, Pool, Wildcat
Basin Fruitland Coal

11. Sec., Twn, Rge, Mer. (NMPM)
Sec. 10, T-29-N, R-12-W
API # 30-045-30381

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

12. County
San Juan

13. State
NM

15. Distance from Proposed Location to Nearest Property or Lease Line
745'

16. Acres in Lease

17. Acres Assigned to Well
315.62 N/2

18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease
500'

19. Proposed Depth
1788'

20. Rotary or Cable Tools
Rotary

21. Elevations (DF, FT, GR, Etc.)
5678' GL
5692'

22. Approx. Date Work will Start

23. Proposed Casing and Cementing Program
See Operations Plan attached

24. Authorized by: Jerry Cole
Regulatory/Compliance Administrator

3-23-00
Date

PERMIT NO. _____

APPROVAL DATE 10/3/00

APPROVED BY [Signature]

TITLE PE

DATE 10/3/00

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 Wells

1. Type of Well
GAS

2. Name of 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, Footage, Sec., T, R, M

875' FNL, 1675' FEL, Sec. 10, T-29-N, R-12-W, NMPM

5. Lease Number
SF-076465

6. If Indian, All. or
Tribe Name

Unit Agreement Name

8. Well Name & Number
Cornell #100

9. API Well No.
30-045-30381

10. Field and Pool
Basin Fruitland Coal

11. County and State
San Juan Co, NM

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

Type of Submission

Type of Action

<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input checked="" type="checkbox"/> Change of Plans
<input 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 changed from 885' FNL 745' FEL to 875' FNL 1675' FEL. Attached is the plat, cut & fill diagram, and topo map showing the revised location.

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

Signed *Deanna Cole* Title Regulatory Supervisor Date 7/12/00

(This space for Federal or State Office use)

APPROVED BY _____ Title _____ Date OCT - 3 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 to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

FARMINGTON DISTRICT OFFICE

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- 30381		*Pool Code 71629	*Pool Name Basin Fruitland Coal
*Property Code 6928	*Property Name CORNELL		*Well Number 100
*GRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY		*Elevation 5692'

¹⁰ Surface Location

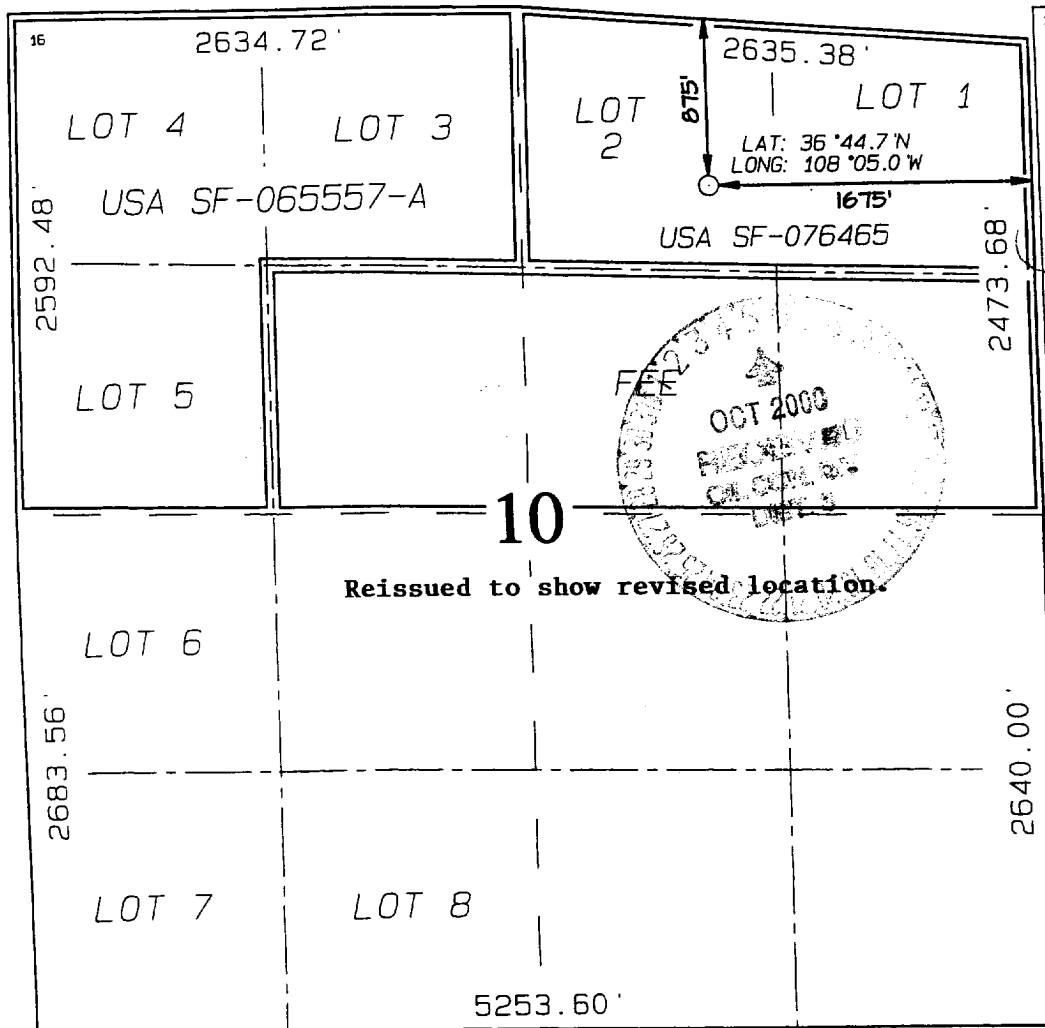
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	10	29N	12W		875	NORTH	1675	EAST	SAN JUAN

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 N/315.62	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



¹⁷ OPERATOR CERTIFICATION

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

Peggy Cole
Signature

Peggy Cole
Printed Name
Regulatory Supervisor
Title

Date

7-13-00

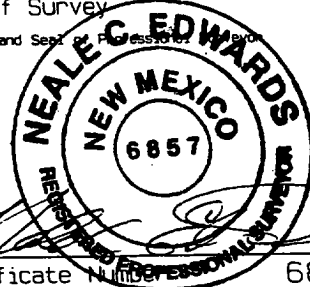
¹⁸ SURVEYOR CERTIFICATION

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.

JUNE 20, 2000

Date of Survey

Signature and Seal of Professional Surveyor



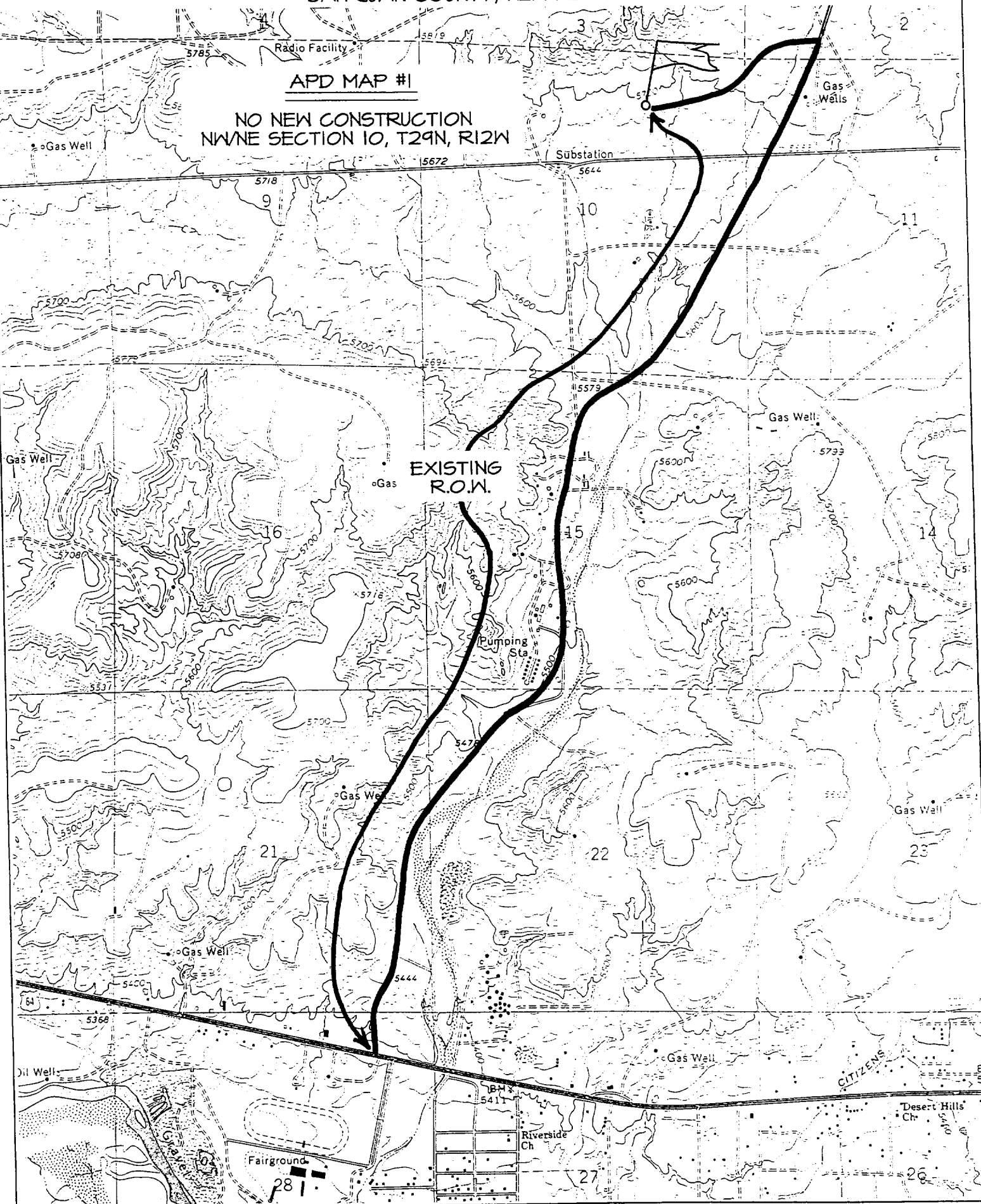
Certificate Number 6857

BURLINGTON RESOURCES OIL & GAS COMPANY CORNELL #100

875' FNL & 1675' FEL, SECTION 10, T29N, R12W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO

APD MAP #1

NO NEW CONSTRUCTION
NW/NE SECTION 10, T29N, R12W



OPERATIONS PLAN

Well Name: Cornell #100
Location: 885' FNL, 745' FEL Section 10, T-29-N, R-12-W
Latitude 36° 44.7, Longitude 108° 04.8
San Juan County, NM
Formation: Basin Fruitland Coal
Elevation: 5678' GL

Formation:	Top	Bottom	Contents
Surface	San Jose	390'	
Ojo Alamo	390'	501'	aquifer
Kirtland	501'	1385'	
Fruitland	1385'	1738'	gas
Fruitland Coal	1738'	1746'	gas
Pictured Cliffs	1746'	1788'	gas
Total Depth	1788'		

Logging Program: Platform express TD-surface.

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
120-1385'	Non-dispersed	8.4-9.0	30-60	no control
1385-1788'	Air			

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

<u>Hole Size</u>	<u>Depth Interval</u>	<u>Csq. Size</u>	<u>Wt.</u>	<u>Grade</u>
12 1/4"	0' - 120'	9 5/8"	32.3#	H-40
8 3/4"	120' - 1385'	7"	20.0#	K-55
6 1/4"	1285' - 1788'	5 1/2"	15.5#	K-55

Tubing Program:

0' - 1788'	2 3/8"	4.7#	J-55
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Float Equipment: 9 5/8" surface casing - saw tooth guide shoe. Centralizers will be run in accordance with Onshore Order #2.

7" intermediate casing - guide shoe and self-fill float collar. Three centralizers run every fourth joint above shoe. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 501'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

5 1/2" production casing - Pre-drilled liner run to the 7" casing with an overlap. Liner hanger is a slip grip type.

Wellhead Equipment: 9 5/8" x 7" x 2 3/8" x 11" 3000 psi xmas tree assembly.

Cornell #100

Cementing:

9 5/8" surface casing - cement with 96 sx Class "B" cement with 1/4# flocele/sx and 3% calcium chloride (112 cu.ft. of slurry, 200% excess to circulate to surface). WOC 8 hrs. Test casing to 600 psi/30 minutes.

7" intermediate casing - lead w/102 sacks Class "B" with 3% sodium metasilicate, 5 pps gilsonite, and 1/2#/sack flocele. Tail with 90 sacks 50/50 Class "B" Pozmix with 2% gel, 2% calcium chloride, 1/2#/sack flocele and 5 pps gilsonite (416 cu.ft., 100% excess to circulate to surface).

5 1/2" liner - uncemented.

BOP and tests:

Surface to intermediate TD - 11" 2000 psi (minimum) double gate BOP stack (Reference Figure #1). Prior to drilling out surface casing, test rams to 600#/30 min.

Intermediate TD to Total Depth - 7 1/6" 3000 psi (minimum) double gate BOP stack (Reference Figure #2). Prior to drilling out intermediate casing, test blind rams and casing to 2500 psi for 30 minutes; all pipe rams and casing to 2500 psi for 30 minutes each.

From surface to TD - choke manifold (Reference Figure #3).

Pipe rams will be actuated at 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 Fruitland Coal formation will be completed.
- * Anticipated pore pressure for the Fruitland is 1000 psi.
- * This gas is dedicated.
- * The north half of section 10 is dedicated to the Fruitland Coal.

Date: 4/3/2000

Drilling Engineer: Steve Cornell