

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work
DRILL

1b. Type of Well
GAS

2. 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
880' FNL, 1080' FEL
Latitude 36° 50.7583'N, Longitude 108° 05.8795'W

5. Lease Number
NMSF081239 PM 1:20
Unit Reporting Number
070 Farmington, NM

6. If Indian, All. or Tribe

7. Unit Agreement Name
33197

8. Farm or Lease Name
L.C. Kelly Com

9. Well Number
100

10. Field, Pool, Wildcat
Basin Fruitland Coal

11. Sec., Twn, Rge, Mer. (NMPM)
A Sec. 4, T-30-N, R-12-W
API # 30-045-31793

12. County
San Juan

13. State
NM

14. Distance in Miles from Nearest Town
3 miles to Flora Vista Post Office

15. Distance from Proposed Location to Nearest Property or Lease Line
880'

16. Acres in Lease

17. Acres Assigned to Well
296.2
302.07 E/2

18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease
853'

19. Proposed Depth
2409'

20. Rotary or Cable Tools
Rotary

21. Elevations (DF, FT, GR, Etc.)
5926' GR

22. Approx. Date Work will Start

23. Proposed Casing and Cementing Program
See Operations Plan attached

24. Authorized by: Peggy Cole
Regulatory/Compliance Supervisor Date 7-9-03

PERMIT NO. _____

APPROVAL DATE _____

APPROVED BY DM

TITLE _____

DATE 10-20-03

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.

DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS".

NMOC

This action is subject to technical and
procedural review pursuant to 43 CFR 3165.3
and appeal pursuant to 43 CFR 3165.4

DISTRICT II
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 30-045- 31793		*Pool Code 71629	*Pool Name Basin Fruitland Coal
*Property Code 33197	*Property Name L.C. KELLY COM		*Well Number 100
*GRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP		*Elevation 5926'

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
A	4	30-N	12-W		880'	NORTH	1080'	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
*Dedicated Acres E/296.2 302.07					*Joint or Infill		*Consolidation Code		*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 LOT 8 N 89-48-21 W 2641.68' (M)		FD 3 1/4" B.L.M. BC 1951 LOT 6		880'		FD 3 1/4" B.L.M. BC 1951 LOT 5	
LOT 7		LOT 10		LAT. 36°50.7583' N (NAD 27) LONG. 108°05.8795' W		1080' LOT 11	
LOT 9		LOT 12		USA SF-081239		S 01-15-53 E 2570.91' (M)	
LOT 16		LOT 15		LOT 14		LOT 13	
LOT 17		ELEANOR G. HARPER					

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 **7-9-03**

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

W. RUSSELL
Date of Survey
Signature and Seal of Professional Surveyor
15703
15703
Certificate Number

OPERATIONS PLAN

Well Name: L.C. Kelly Com #100
Location: 880' FNL, 1080' FEL Section 4, T-30-N, R-12-W
Latitude 36° 50.7583'N, Longitude 108° 05.8795'W
San Juan County, NM
Formation: Basin Fruitland Coal
Elevation: 5926' GL

Formation:	Top	Bottom	Contents
Surface	San Jose	558'	
Ojo Alamo	558'	734'	aquifer
Kirtland	734'	1611'	
Fruitland	1611'	1833'	gas
Fruitland Coal	1833'	2204'	gas
B/Coal	2204'	2209'	gas
Pictured Cliffs	2209'		gas
Total Depth	2409'		

Logging Program: GR/Density TD-surface

Mud log: none

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
120-2409'	Non-dispersed	8.4-9.5	30-60	no control

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

<u>Hole Size</u>	<u>Depth Interval</u>	<u>Csg. Size</u>	<u>Wt.</u>	<u>Grade</u>
8 3/4"	0' - 120'	7"	20.0#	J-55
6 1/4"	0' - 2409'	4 1/2"	10.5#	J-55

Tubing Program:

0' - 2409'	2 3/8"	4.7#	J-55
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Float Equipment: 7" surface casing - saw tooth guide shoe. Centralizers will be run in accordance with Onshore Order #2.

4 1/2" production casing - guide shoe and self-fill float collar. Standard centralizers run every other joint above shoe. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 734'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

Wellhead Equipment: 7" x 4 1/2" x 2 3/8" x 11" 2000 psi screw on independent wellhead.

Cementing:

7" surface casing - cement with 38 sx Class "B" Type III cement with 0.25 pps Celloflake and 3% calcium chloride (54 cu.ft. of slurry, 200% excess to circulate to surface). WOC 24 hours for pre-set holes or 8 hours for conventionally set holes before pressure testing or drilling out from under surface casing. Test casing to 600 psi for 30 minutes.

4 1/2" production casing - Lead w/116 sx Premium Lite cement w/3% calcium chloride, 1/4 pps Cello-flake, 5 pps LCM-1, 0.4% FL-52, and 0.4% SMS. Tail w/90 sx Type III cement w/1% calcium chloride, 1/4 pps Cello-flake, and 0.2% FL-52 (371 cu.ft. of slurry, 50% excess to circulate to surface.) If cement is not circulated to surface, a temperature survey or CBL will be run during drilling or completion operations 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). Prior to drilling out surface casing, test rams to 600 psi/30 min.

Completion - 7 1/16" 2000 psi (minimum) double gate BOP stack (Reference Figure #2). Prior to completion operations, test rams and casing to 2000 psi/15 min.

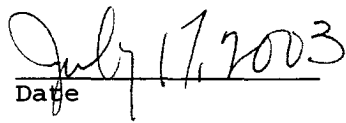
From surface to TD - choke manifold (Reference Figure #3).

Pipe rams will be actuated 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 and commingled.
- * Anticipated pore pressure for the Fruitland is 500 psi.
- * This gas is dedicated.
- * The east half of Section 4 is dedicated to the Fruitland Coal.


Drilling Engineer


Date