

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  
2400' FNL, 660' FWL  
Latitude 36° 57.0917, Longitude 107° 28.2277

5. Lease Number  
NMSF081155  
Unit Reporting Number

6. If Indian, All. or Tribe

7. Unit Agreement Name  
Allison Unit

8. Farm or Lease Name  
Allison Unit

9. Well Number  
118S

10. Field, Pool, Wildcat  
Basin Fruitland Coal

11. Sec., Twn, Rge, Mer. (NMPM)  
E Sec. 28, T-32-N, R-6-W  
API # 30-045-31325

12. County  
San Juan

13. State  
NM

14. Distance in Miles from Nearest Town  
Ignacio 22 miles, Allison 10 miles

15. Distance from Proposed Location to Nearest Property or Lease Line  
660'

16. Acres in Lease

17. Acres Assigned to Well  
320 W/2

18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease  
1550'

19. Proposed Depth  
3421'

20. Rotary or Cable Tools  
Rotary

21. Elevations (DF, FT, GR, Etc.)  
6719' GR

22. Approx. Date Work will Start

23. Proposed Casing and Cementing Program  
See Operations Plan attached

24. Authorized by: Peggy Case  
Regulatory/Compliance Supervisor Date 1-2-03

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY DM TITLE \_\_\_\_\_ DATE 4-29-03

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.

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

NMOC

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

RECEIVED  
2003 JAN -8 PM 1:17  
070 Farmington, NM

District I  
PO Box 1980, Hobbs, NM 88241-1980

State of New Mexico  
Energy, Minerals & Natural Resources Department

Form C-102

Revised February 21, 1994

Instructions on back

District II  
PO Drawer DD, Artesia, NM 88211-0719

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

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

District III  
1000 Rio Brazos Rd., Aztec, NM 87410

District IV  
PO Box 2088, Santa Fe, NM 87504-2088

2003 JAN -8 PM 1:18 AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT  
070 Farmington, NM

*API Number 30-045- <b>31325</b>	*Pool Code 71629	*Pool Name Basin Fruitland Coal
*Property Code 6784	*Property Name ALLISON UNIT	*Well Number 118S
*GRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY, LP	*Elevation 6719'

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
E	28	32N	6W		2400	NORTH	660	WEST	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 W/320					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>5372.40'</p> <p>2400'</p> <p>660'</p> <p>LAT: 36°57.0917' N LONG: 107°28.2277' W</p> <p>230'</p> <p>2015'</p> <p>28</p> <p>USA SF-081155</p> <p>5329.50'</p> <p>5348.64'</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></p> <p>Signature</p> <p>Peggy Cole</p> <p>Printed Name</p> <p>Regulatory Supervisor</p> <p>Title</p> <p>1-2-03</p> <p>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>Survey Date: AUGUST 28, 2002</p> <p>Signature and Seal of Professional Surveyor</p> <p><p><b>JASON C. EDWARDS</b></p><p>Certificate Number 15269</p></p>

# OPERATIONS PLAN

Well Name: Allison Unit #118S  
Location: 2400' FNL, 660' FWL Section 28, T-32-N, R-6-W  
Latitude 36° 57.0917' N, Longitude 107° 28.2277' W  
San Juan County, NM  
Formation: Basin Fruitland Coal  
Elevation: 6719' GL

Formation:	Top	Bottom	Contents
Surface	San Jose	2588'	
Ojo Alamo	2588'	2706'	aquifer
Kirtland	2706'	3102'	
Fruitland	3102'	3341'	
Intermediate TD	3311'		
Fruitland Coal	3341'	3421'	gas
B/Basal Coal	3421'	3428'	gas
Total Depth	3421'		
Pictured Cliffs	3428'		

Mudlog: with Softrock from 7" to TD  
Coring Program: none

## Mud Program:

Interval	Type	Weight	Vis.	Fluid Loss
0- 120'	Spud	8.4-9.0	40-50	no control
120-3311'	Non-dispersed	8.4-9.0	30-60	no control
3311-3421'	Air/Mist			

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

Hole Size	Depth Interval	Csg. Size	Wt.	Grade
12 1/4"	0' - 120'	9 5/8"	32.3#	H-40
8 3/4"	0' - 3311'	7"	20.0#	J-55
6 1/4"	3311' - 3421'	open hole		

## Tubing Program:

0' - 3421'	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. Standard centralizers run every other joint above shoe. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 2706'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

Wellhead Equipment: 9 5/8" x 7" x 2 3/8" x 11" 2000 psi xmas tree assembly.

**Cementing:**

9 5/8" surface casing - cement with 32 sx Class A, B Portland Type I, II cement (38 cu.ft. of slurry, bring cement to surface through 3/4" line) or equivalent. WOC 24 hours for pre-set holes or 8 hours for conventionally set holes before pressure testing or drilling out from under surface casing.

7" intermediate casing - lead w/406 sacks Premium Lite with 3% calcium chloride, 5 pps LCM-1, and 1/4#/sack flocele, 0.4% FL-52, & 0.4% SMS. Tail with 90 sacks Type III cmt with 1% calcium chloride, 1/4#/sack flocele and 0.2% FL-52 (990 cu.ft., 100% excess to circulate to surface).

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

**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" 2000 psi (minimum) double gate BOP stack (Reference Figure #2). Prior to drilling out intermediate casing, test blind rams and casing to 1500 psi for 30 minutes; all pipe rams and casing to 1500 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 less than 500 psi.
- \* This gas is dedicated.
- \* The west half of section 28 is dedicated to the Fruitland Coal.

Date: 1/8/03

Drilling Engineer: Eric J. Giles