

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

RECEIVED

1a. Type of Work DRILL	5. Lease Number NMSF-079383 Unit Reporting Number 891000538A	700 JAN 30 PM 1:32 Farmington, NM
1b. Type of Well GAS	6. If Indian, All. or Tribe	
2. Operator <b>BURLINGTON</b> RESOURCES OIL & GAS COMPANY LP	7. Unit Agreement Name San Juan 30-6 Unit	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name San Juan 30-6 Unit 9. Well Number 414S	
4. Location of Well 1600' FNL, 1225' FWL Latitude 36° 46.3168, Longitude 107° 32.6695	10. Field, Pool, Wildcat Basin Fruitland Coal 11. Sec., Twn, Rge, Mer. (NMPM) E Sec. 35, T-30-N, R-7-W API # 30-039-27305	
14. Distance in Miles from Nearest Town 8 miles from Navajo City	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1225'	17. Acres Assigned to Well 320 W/2	
16. Acres in Lease		
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 20'		
19. Proposed Depth 3755'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6857' GR	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Peggy Cale</u> Regulatory/Compliance Supervisor	Date 1-28-03	

PERMIT NO.

APPROVAL DATE

APPROVED BY

David J. Mankiewicz

TITLE

DATE

APR 17 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.

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

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

NMOC

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

Energy, Minerals & Natural Resources Department  
**OIL CONSERVATION DIVISION**  
PO Box 2088  
Santa Fe, NM 87504-2088

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 30-039- <b>27305</b>		*Pool Code 71629	*Pool Name Basin Fruitland Coal
*Property Code 7469	*Property Name SAN JUAN 30-6 UNIT		*Well Number 414S
*OGRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY, LP		*Elevation 6857'

**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	35	30N	7W		1600	NORTH	1225	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

*Dedicated Acres FTC-W/320	*Joint or Infill	*Consolidation Code	*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</div> <div>5278.68'</div> <div>5280.00'</div> <div>5280.00'</div> <div>5280.00'</div>	<div>17 OPERATOR CERTIFICATION</div> <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> Signature</p> <p>Peggy Cole Printed Name</p> <p>Regulatory Supervisor Title</p> <p>1-28-03 Date</p>
	<div>18 SURVEYOR CERTIFICATION</div> <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: DECEMBER 12, 2002</p> <p>Signature and Seal of Professional Surveyor</p> <div><p><b>JASON C. EDWARDS</b> Certificate Number 15269</p></div>

070 Farmington, NM  
2003 JAN 30 PM 3:32

RECEIVED

## OPERATIONS PLAN

**Well Name:** San Juan 30-6 Unit #414S  
**Location:** 1600' FNL, 1225' FWL, Section 35, T-30-N, R-7-W  
Latitude 36° 46.3168, Longitude 107° 32.6695  
Rio Arriba County, NM  
**Formation:** Basin Fruitland Coal  
**Elevation:** 6857' GR

<b>Formation:</b>	<b>Top</b>	<b>Bottom</b>	<b>Contents</b>
Surface	San Jose	2838'	
Ojo Alamo	2838'	2939'	aquifer
Kirtland	2939'	3317'	gas
Fruitland	3317'	3543'	gas
Intermediate casing	3493'		
Top of Coal	3543'	3749'	
Base of Coal	3749'		
Pictured Cliffs	3757'		
Total Depth	3755'		

**Logging Program:**

Open hole - None  
Mud log - TD to intermediate casing

**Coring Program:** none

**Mud Program:**

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Vis.</u>	<u>Fluid Loss</u>
0- 500'	Spud	8.4-9.0	40-50	no control
500-3493'	Non-dispersed	8.4-9.0	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>
12 1/4"	0' - 500'	9 5/8"	32.3#	H-40
8 3/4"	0' - 3493'	7"	20.0#	J-55
6 1/4"	3493' - 3755'	open hole		

**Tubing Program:**

0' - 3755'      2 3/8"      4.7#      J-55

**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 @ 2939'. 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" 3000 psi xmas tree assembly.

**Cementing:**

9 5/8" surface casing - cement with 346 sx Type III cement with 2% calcium chloride, 0.25 pps Celloflake (488 cu.ft. of slurry, 200% excess to bring cement to surface). WOC. Test casing to 600 psi/30 minutes.

7" intermediate casing - lead w/410 sacks Premium Lite cement with 3% calcium chloride, 0.25 pps Celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate. Tail with 90 sacks Type III cement with 1% calcium chloride, 0.25 pps Celloflake, 0.2% fluid loss (997 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 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 500 psi.
- This gas is dedicated.
- The west half of section 35 is dedicated to this well.

Drilling Engineer:

Eric J. Giles

Date:

1/29/03