

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	5. Lease Number NMSF-081155 Unit Reporting Number 070 Farmington, NM	
1b. Type of Well GAS	6. If Indian, All. or Tribe	
2. Operator <b>BURLINGTON</b> RESOURCES Oil & Gas Company	7. Unit Agreement Name Allison Unit	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name Allison Unit 9. Well Number #121S	
4. Location of Well 1765' FNL, 960' FWL Latitude 36° 57.2047'N, Longitude 107° 30.3232'W	10. Field, Pool, Wildcat Basin Fruitland Coal 11. Sec., Twn, Rge, Mer. (NMPM) E Sec. 30, T32N, R06W API # 30-045-32136	
14. Distance in Miles from Nearest Town 19 miles to Ignacio, CO	12. County San Juan	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 960'		
16. Acres in Lease	17. Acres Assigned to Well 314.42 W/2	
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 800'		
19. Proposed Depth 3356'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6445' GR	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Joni Clark</u> Regulatory/Compliance Specialist	<u>12/22/03</u> Date	

PERMIT NO.

APPROVAL DATE

APPROVED BY /s/ David J. Mankiewicz

TITLE

DATE

FEB 24 2004

Archaeological Report attached

Threatened and Endangered Species Report attached

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.

No notification needed for FC HPA per phone call w/NOTHmanns 3-4-2004

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

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

NMOC

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

District II  
PO Drawer 00, 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- 32136		*Pool Code 71629	*Pool Name Basin Fruitland Coal
*Property Code 6784	*Property Name ALLISON UNIT		*Well Number 121S
*GRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY, LP		*Elevation 6445'

<sup>10</sup> 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	30	32N	6W		1765	NORTH	960	WEST	SAN JUAN

<sup>11</sup> 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

<sup>12</sup> Dedicated Acres W/314.42	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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

<p><sup>16</sup></p> <p>LOT 1 1275.12' x 1314.06' 1765'</p> <p>LOT 2 1267.46' x 1630' 860'</p> <p>LOT 3 1268.52' x 1321.98' USA SF-081155</p> <p>LOT 4 1268.52' x 1321.98'</p> <p>Well Location: LAT: 36°57.2047' N LONG: 107°30.3232' W</p> <p>30</p> <p>FEB 2004 RECEIVED OIL CONSERVATION DIV. DIST. 3</p>	<p><sup>17</sup> 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>Joni Clark</i> Signature Joni Clark Printed Name Regulatory Specialist Title December 22, 2003 Date</p> <p><sup>18</sup> 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: SEPTEMBER 11, 2003</p> <p>Signature and Seal of Professional Surveyor</p> <p><i>JASON C. EDWARDS</i> Certificate Number 15269</p>
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# BURLINGTON RESOURCES

RECEIVED

SAN JUAN DIVISION

2004 FEB 11 AM 10:18

February 10, 2004

070 Farmington, NM

Bureau of Land Management  
1235 La Plata Highway  
Farmington, New Mexico 87401

Dear Adrienne Garcia:

The surface cement slurry has been changed for the following wells to:

Cement with Type III cement with 0.25 pps Celloflake, 3% calcium chloride. (1.28 yeild, 15.2 ppg, 200% excess, bring cement to surface). Wait on cement appropriate time until cement achieves 250 psi compressive strength at 60 degrees F. prior to nipple up of BOPE. Wait on cement for 8 hrs for conventionally set holes before pressure testing or drilling out from under surface. Test casing to 600 psi for 30 minutes.

9-5/8" csg set @ 120'  
88 sxs cmt  
113 cu. ft. of slurry

Allison Unit 120S, NWSE, Sec. 30, T-32-N, R-6-W, Federal lease NM-04207.  
Allison Unit 121S, SENW, Sec. 30, T-32-N, R-6-W, Federal lease SF-081155.  
Carson SRC 101S, SWNW, Sec. 1, T-30-N, R-5-W, Federal lease NM-4453.  
Federal G 1N, SESW, Sec. 35, T-31-N, R-12-W, Federal lease SF-078120A.  
Hale 351S, SWNW, Sec. 34, T-31-N, R-8-W, Federal lease SF-079037.  
Hale 352S, NWSE, Sec. 27, T-31-N, R-8-W, Federal lease SF-079037.  
Howell A 301S, NENW, Sec. 4, T-30-N, R-8-W, Federal lease SF-078580.  
Howell Com J 301S, NWNW, Sec. 11, T-30-N, R-8-W, Federal lease NM-010468.  
Howell D 350S, SWSW, Sec. 28, T-31-N, R-8-W, Federal lease SF-078387.  
Howell D 351S, SENW, Sec. 29, T-31-N, R-8-W, Federal lease SF-078387.  
Johnston Federal 15S, NWSW, Sec. 35, T-31-N, R-9-W, Federal lease SF-078439.  
Johnston Federal 26S, SWNW, Sec. 7, T-31-N, R-9-W, Federal lease SF-078439.  
Johnston Federal 29S, SWSE, Sec. 7, T-31-N, R-9-W, Federal lease SF-078439.  
San Juan 32-9 Unit 250S, SWSE, Sec. 4, T-31-N, R-9-W, Federal lease SF-080875.  
San Juan 32-9 Unit 277S, SENW, Sec. 30, T-32-N, R-9-W, Federal lease SF-078509.  
San Juan 32-9 Unit 283S, NENW, Sec. 33, T-32-N, R-9-W, Federal lease SF-079048.  
Scott 100S, SENW, Sec. 29, T-32-N, R-10-W, Federal lease SF-078604.  
Scott Com 291S, NESE, Sec. 29, T-32-N, R-10-W, Federal lease SF-078604.  
Vanderslice 100S, SWNW, Sec. 18, T-32-N, R-10-W, Federal lease SF-078215A.  
Waller 100S, SESE, Sec. 11, T-32-N, R-11-W, Federal lease SF-078119A.  
Wilmer Canyon 101S, NENW, Sec. 25, T-32-N, R-8-W, Federal lease NM-6893.

Sincerely,



Tammy Wimsatt  
Regulatory Specialist

ACCEPTED FOR RECORD

FEB 24 2004

FARMINGTON FIELD OFFICE

BY *JH*

FARMINGTON

# OPERATIONS PLAN

**Well Name:** Allison Unit #121S  
**Location:** 1765' FNL, 960' FWL Section 30, T-32-N, R-06-W  
Latitude 36° 57.2047'N, Longitude 107° 30.3232'W  
San Juan County, NM  
**Formation:** Basin Fruitland Coal  
**Elevation:** 6445'GR

Formation:	Top	Bottom	Contents
Surface	San Jose	2285'	
Ojo Alamo	2285'	2404'	aquifer
Kirtland	2404'	2870'	
Fruitland	2870'	3037'	
Intermediate TD	2987'		
Fruitland Coal	3037'	3353'	gas
B/Basal Coal	3353'	3354'	gas
Pictured Cliffs	3354'		
Total Depth	3356'		

**Logging Program:** none  
**Mudlog:** from 7" to 2987'  
**Coring Program:** none

## **Mud Program:**

Interval	Type	Weight	Vis.	Fluid Loss
0- 120'	Spud Mud/Air/Air Mist	8.4-9.0	40-50	no control
120-2987'	Non-dispersed	8.4-9.0	30-60	no control
2987-3356'	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' - 2987'	7"	20.0#	J-55
6 1/4"	2987' - 3356'	open hole		

## **Alternate 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' - 2987'	7"	20.0#	J-55
6 1/4"	2947' - 3356'	5 1/2"	15.5#	J-55

## **Tubing Program:**

0' - 3356'      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 @ 2404'. 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 -

Pre-Set Drilled Cement with 23 sx Type I, II cement with 20% flyash mixed at 14.5 ppg, 1.61 cu ft per sack yield. (37 cu ft of slurry, bring cement to surface) Wait on cement for 24 hours for pre-set holes before pressure testing or drilling out from under surface.

Conventionally Drilled

Cement with 80 sx Type III cement with 0.25 pps Celloflake, 2% CaCl. (113 cu ft of slurry, 200% excess, bring cement to surface) Wait on cement for 8 hrs for conventionally set holes before pressure tessting or drilling out from under surface.

~~Waive the 6 hours WOC in lieu of 4 hours prior to NU of BOPE.~~ See BHM General Requirements

7" intermediate casing - lead w/257 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 (673 cu.ft., 50% excess to circulate to surface).

5 1/2" liner - will not be cemented if run.

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 30 is dedicated to the Fruitland Coal.

Date:

January 14, 2004

Drilling Engineer:

Jim McCarthy