

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-078424 Unit Reporting Number FC-891001650C PC-891001650B	2003 JUL 28 PM 1:38 Farmington, NM
1b. Type of Well GAS	6. If Indian, All. or Tribe	
2. Operator BURLINGTON RESOURCES OIL & GAS COMPANY LP	7. Unit Agreement Name San Juan 29-7 Unit	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name San Juan 29-7 Unit	
4. Location of Well 1855' FSL, 1755' FEL Latitude 36° 42.33, Longitude 107° 33.17	9. Well Number 191	
10. Field, Pool, Wildcat Basin Fruitland Coal Blanco Pictured Cliffs	11. Sec. Twn, Rge, Mer. (NMPM) Sec. 22, T-29-N, R-7-W API # 30-039- 27474	
14. Distance in Miles from Nearest Town 16 miles from Blanco	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1755'	17. Acres Assigned to Well FC - 320 E/2 PC - 160	
16. Acres in Lease		
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 20'	20. Rotary or Cable Tools Rotary	
19. Proposed Depth 3850'		
21. Elevations (DF, FT, GR, Etc.) 6781' GR	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>[Signature]</u> Regulatory/Compliance Supervisor	Date 4-7-03	

PERMIT NO. 10 David J. Markiewicz

APPROVAL DATE

APPROVED BY 10 David J. Markiewicz

TITLE

DATE

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".

NMOCD

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

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-		*Pool Code 71629/72359	*Pool Name Basin Fruitland Coal/Blanco Pictured Cliffs
*Property Code 7465	*Property Name SAN JUAN 29-7 UNIT		*Well Number 191
*GRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY, LP		*Elevation 6781'

¹⁰ Surface Location

UL or lot no. J	Section 22	Township 29N	Range 7W	Lot Idn	Feet from the 1855	North/South line SOUTH	Feet from the 1755	East/West line EAST	County RIO ARriba
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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 FTC/PC: E/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

<div>16</div> <div>5280.00'</div> <div>5289.24'</div> <div>875'</div> <div>1755'</div> <div>1055'</div> <div>705'</div> <div>LAT: 36°42.5478' N LONG: 107°33.2817' W</div> <div>USA SF-078424</div>	<div>¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Signature Peggy Cole Printed Name Regulatory Supervisor Title 4-7-03 Date</div> <div>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. Survey Date: JANUARY 14, 2003 Signature and Seal of Professional Surveyor JASON C. EDWARDS Certificate Number 15269</div>
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070 Farmington, NM
2003 JUL 28 PM 1:38
RECEIVED

OPERATIONS PLAN

Well Name: San Juan 29-7 Unit #191
Location: 1855' FSL, 1755' FEL, Section 22, T-29-N, R-7-W
Rio Arriba County, New Mexico
Latitude 36° 42.33, Longitude 107° 33.17
Formation: Basin Fruitland Coal/Blanco Pictured Cliffs
Elevation: 6781' GL

Formation:	Top	Bottom	Contents
Surface	San Jose	2668'	
Ojo Alamo	2668'	2793'	aquifer
Kirtland	2793'	3308'	gas
Fruitland	3308'	3593'	gas
Pictured Cliffs	3593'	3803'	gas
Lewis Shale Marker	3803'		
Total Depth	3850'		

Logging Program:

Open hole - Array Induction - Surface to TD, CNL-CDL - 2790' to TD
Mud log - None

Coring Program: None

Mud Program:

Interval	Type	Weight	Vis.	Fluid Loss
0- 120'	Spud	8.4-9.0	40-50	no control
120-3850'	FW	8.4-9.0	32-45	no control

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

Hole Size	Depth Interval	Csg. Size	Wt.	Grade
9 7/8"	0 - 120'	7"	20.0#	J-55
6 1/4"	0 - 3850'	4 1/2"	10.5#	K-55

Tubing Program:

0' -3850'	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 - float shoe on bottom. Standard centralizers run every other joint above shoe to the base of the Ojo Alamo @ 2793'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 2793'. 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" 2000 psi screw on independent wellhead.

Cementing:

7" surface casing - cement with 23 sx Class A, B Portland Type I, II cement (32 cu.ft. of slurry, bring cement to surface) or equivalent. Wait on cement for 24 hours for pre-set holes or 8 hrs for conventionally set holes before pressure testing or drilling out from under surface. Test casing to 600 psi for 30 minutes.

4 1/2" production casing - Lead w/219 sx Premium Lite cement w/3% calcium chloride, 1/4 pps Flocele, 5 pps LCM-1, 0.4% FL-52, 0.4% SMS. Tail w/90 sx Type III cement w/1% calcium chloride, 1/4 pps Flocele, and 0.2% FL-52 (592 cu.ft. of slurry, 50% 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 TD - 11" 2000 psi (minimum double gate BOP stack (Reference Figure #1). Prior to drilling out surface casing, test BOP and casing to 600 psi/30 min.

Completion - 6" 2000 psi (minimum) double gate BOP stack (Reference Figure #2). Prior to completion operations, test BOP and casing to 2000 psi/15 min.

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

Pipe rams will be actuated to 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 and Pictured Cliffs formation will be completed and commingled.
- * Anticipated pore pressure for the Pictured Cliffs is 500 psi.
- * This gas is dedicated.
- * The east half of Section 22 is dedicated to the Fruitland Coal and the southeast quarter of Section 22 is dedicated to the Pictured Cliffs.


Drilling Engineer

5/7/03
Date