

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-078423
1b. Type of Well GAS	Unit Reporting Number 891001650B
2. Operator BURLINGTON RESOURCES Oil & Gas Company LP	6. If Indian, All. or Tribe
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	7. Unit Agreement Name San Juan 29-7 Unit
4. Location of Well 770' FNL, 320' FWL Latitude 36° 43.9 Longitude 107° 32.9	8. Farm or Lease Name San Juan 29-7 Unit
	9. Well Number 189
10. Field, Pool, Wildcat Blanco Pictured Cliffs	11. Sec., Twn, Rge, Mer. (NMPM) D Sec. 14, T-29-N, R-7-W
12. County Rio Arriba	API # 30-039- 27313
13. State NM	
14. Distance in Miles from Nearest Town 11 miles from Navajo City	
15. Distance from Proposed Location to Nearest Property or Lease Line 320'	
16. Acres in Lease	17. Acres Assigned to Well 160 NW/4
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 75'	
19. Proposed Depth 3370'	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6235' 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 <u>1-20-03</u>

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY David J. Mankiewicz TITLE _____ DATE MAR 24 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.

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

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

Instructions on back
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 30-039- 27313	*Pool Code 72359	*Pool Name Blanco Pictured Cliffs
*Property Code 7465	*Property Name SAN JUAN 29-7 UNIT	*Well Number 189
*OGRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY, LP	*Elevation 6235'

¹⁰ Surface Location

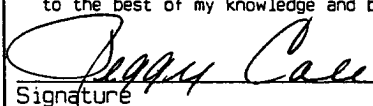
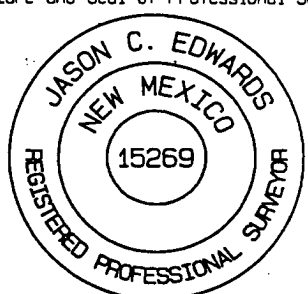
UL or lot no. D	Section 14	Township 29N	Range 7W	Lot Idn	Feet from the 770	North/South line NORTH	Feet from the 320	East/West line WEST	County RIO ARriba
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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¹² Dedicated Acres PC - 160	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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

¹⁶ 770' 320' 1870' 5280.00' USA SF-078423 LAT: 36°43.8520' N LONG: 107°32.8558' W 2315' FEE 14 5269.44' 5268.12'	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 1-20-03 Date
RECEIVED 2003 FEB 10 PM 2:17 070 FARMINGTON, NM	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: DECEMBER 16, 2002 Signature and Seal of Professional Surveyor  JASON C. EDWARDS Certificate Number 15269

OPERATIONS PLAN

Well Name: San Juan 29-7 Unit #189
Location: 770' FNL, 320' FWL, Section 14, T-29-N, R-7-W
Rio Arriba County, New Mexico
Latitude 36° 36.4, Longitude 107° 32.9
Formation: Blanco Pictured Cliffs
Elevation: 6235' GL

Formation:	Top	Bottom	Contents
Surface	San Jose	2162'	
Ojo Alamo	2162'	2282'	aquifer
Kirtland	2282'	2827'	gas
Fruitland	2827'	3108'	gas
Pictured Cliffs	3072'		gas
Total Depth	3370'		

Logging Program:

Open hole - Array Induction - Surface to TD, CNL-CDL - 2270' 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
120-3370'	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 - 3370'	4 1/2"	10.5#	K-55

Tubing Program:

0' -3370' 2 3/8" 4.7# J-55

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 @ 2282'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 2303'. 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 through 3/4" line) 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/268 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 (696 cu.ft. of slurry, 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 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 - 6" 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 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 Pictured Cliffs formation will be completed.
- * Anticipated pore pressure for the Pictured Cliffs is 500 psi.
- * This gas is dedicated.
- * The northwest quarter of Section 14 is dedicated to the Pictured Cliffs.

Eric J. Giles
Drilling Engineer

1/20/03
Date