

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

1b. Type of Well
GAS

2. Operator
BURLINGTON
RESOURCES

OIL & GAS COMPANY LP

3. Address & Phone No. of Operator
PO Box 4289, Farmington, NM 87499
(505) 326-9700

4. Location of Well
1490' FNL, 525' FEL
Latitude 36° 44.36, Longitude 107° 33.02

14. Distance in Miles from Nearest Town
11 miles from Navajo City

15. Distance from Proposed Location to Nearest Property or Lease Line
525'
16. Acres in Lease

18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease
20'

19. Proposed Depth
3525'

21. Elevations (DF, FT, GR, Etc.)
6370' GR

23. Proposed Casing and Cementing Program
See Operations Plan attached

24. Authorized by: Peggy Case
Regulatory/Compliance Supervisor

4-28-03
Date

5. Lease Number 2003 AUG 13 PM 2:05
NMNM-03600
Unit Reporting Number
PC-891001680B Farmington, NM
6. If Indian, All. or Tribe

7. Unit Agreement Name
San Juan 29-7 Unit

8. Farm or Lease Name
San Juan 29-7 Unit
9. Well Number
185

10. Field, Pool, Wildcat
La Jara Pict Cliffs

11. Sec., Twn, Rge, Mer. (NMPM)
Sec. 10, T-29-N, R-7-W
API # 30-039- 27484

12. County
Rio Arriba
13. State
NM

17. Acres Assigned to Well
160 NEK

20. Rotary or Cable Tools
Rotary

22. Approx. Date Work will Start

PERMIT NO.

APPROVAL DATE

APPROVED BY

/s/ David J. Mankiewicz

TITLE

DATE AUG 27 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

NMOC

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

strict I
Bbx 1980, Hobbs, NM 88241-1980

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised February 21, 1994

strict II
Drawer DD, Artesia, NM 88211-0719

OIL CONSERVATION DIVISION

Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

strict III
100 Rio Brazos Rd., Aztec, NM 87410

P.O. Box 2088
Santa Fe, NM 87504-2088

☐ AMENDED REPORT

strict IV
Box 2088, Santa Fe, NM 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039- 27484		*Pool Code 96199	*Pool Name La Jara Pictured Cliffs
*Property Code 7465	*Property Name SAN JUAN 29-7 UNIT		*Well Number 185
*OGRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY, LP		*Elevation 6370'

10 Surface Location

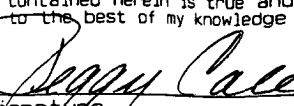

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	10	29N	7W		1490	NORTH	525	EAST	RIO ARriba

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 PC - 160	*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>5280.00'</div> <div>RECEIVED</div> <div>2003 AUG 13 PM 2:05</div> <div>Ojo Arriba, NM</div> <div>5294.52'</div>	<div>5297.16'</div> <div>USA NM-03600</div> <div>2100'</div> <div>1490'</div> <div>525'</div> <div>1135'</div> <div>5280.00'</div> <div>LAT: 36°44'50.12"N LONG: 107°33'03.03"W</div>	<div>17 OPERATOR CERTIFICATION</div> <div>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</div> <div></div> <div>Signature</div> <div>Peggy Cole</div> <div>Printed Name</div> <div>Regulatory Supervisor</div> <div>Title</div> <div>4-28-03</div> <div>Date</div>
	<div>5294.52'</div>	<div>18 SURVEYOR CERTIFICATION</div> <div>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.</div> <div>Survey Date: FEBRUARY 7, 2003</div> <div>Signature and Seal of Professional Surveyor</div> <div></div> <div>JASON C. EDWARDS</div> <div>Certificate Number 15269</div>

OPERATIONS PLAN

Well Name: San Juan 29-7 Unit #185
Location: 14 90' FNL, 525' FEL, Section 10, T-29-N, R-7-W
Rio Arriba County, New Mexico
Latitude 36° 44.36, Longitude 107° 33.02
Formation: La Jara Pictured Cliffs
Elevation: 6370' GL

Formation:	Top	Bottom	Contents
Surface	San Jose	2252'	
Ojo Alamo	2252'	2432'	aquifer
Kirtland	2432'	2982'	gas
Fruitland	2982'	3227'	gas
Pictured Cliffs	3227'	3477'	gas
Lewis Shale Marker	3477'		
Total Depth	3525'		

Logging Program:

Open hole - Array Induction - Surface to TD, CNL-CDL - 2430' to TD
Mud log - None

Coring Program: None

Mud Program:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Vis.</u>	<u>Fluid Loss</u>
0-120'	Spud	8.4-9.0	40-50	no control
120-3525'	FW	8.4-9.0	32-45	no control

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

<u>Hole Size</u>	<u>Depth Interval</u>	<u>Csg. Size</u>	<u>Wt.</u>	<u>Grade</u>
9 7/8"	0 - 120'	7"	20.0#	J-55
6 1/4"	0 - 3525'	4 1/2"	10.5#	K-55

Tubing Program:

0' - 3525'	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 @ 2432'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 2432'. 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/196 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 (542 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.

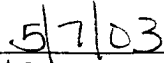
From surface to TD - choke manifold (Reference Figure #3).

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 Pictured Cliffs formation will be completed.
- * Anticipated pore pressure for the Pictured Cliffs is 500 psi.
- * This gas is dedicated.
- * The northeast quarter of Section 10 is dedicated to the Pictured Cliffs.


Drilling Engineer


Date