

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-078951
1b. Type of Well GAS	Unit Reporting Number 891001650B 070 Farmington, NM
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 1835' FSL, 910' FEL Latitude 36° 45.10, Longitude 107° 35.16	8. Farm or Lease Name San Juan 29-7 Unit
14. Distance in Miles from Nearest Town 4 miles from Navajo City	9. Well Number 169
15. Distance from Proposed Location to Nearest Property or Lease Line 910'	10. Field, Pool, Wildcat Blanco Pictured Cliffs
16. Acres in Lease	11. Sec., Twn, Rge, Mer. (NMPM) I Sec. 5, T-29-N, R-7-W API # 30-039- 27452
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 20'	12. County Rio Arriba
19. Proposed Depth 3115'	13. State NM
21. Elevations (DF, FT, GR, Etc.) 6100' GR	17. Acres Assigned to Well 160 SE 4 160 SE 4
23. Proposed Casing and Cementing Program See Operations Plan attached	20. Rotary or Cable Tools Rotary
24. Authorized by: <u>Penny Case</u> Regulatory/Compliance Supervisor	22. Appox. Date Work will Start 5-2-03

PERMIT NO. _____

APPROVAL DATE _____

APPROVED BY _____

/s/ David J. Mankiewicz

TITLE _____

DATE _____

AUG 22 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".

NMOC

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

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- 27452		*Pool Code 72400 72359	*Pool Name Blanco Pictured Cliffs
*Property Code 7465	*Property Name SAN JUAN 29-7 UNIT		*Well Number 169
*OGRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY, LP		*Elevation 6100'

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
I	5	29N	7W		1835	SOUTH	910	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

12 Dedicated Acres PC - 5.215 160 SE/4	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 LOT 8 LOT 7 LOT 6 LOT 5 5280.00' 1232.22' 1320.00' 2640.00' 070 Farmington, NM 2003 JUN 9 AM 11:44 RECEIVED 5281.32'		17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Signature: <i>Jason C. Edwards</i> Printed Name: _____ Title: 5-2-03 Date: _____	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: FEBRUARY 11, 2003 Signature and Seal of Professional Surveyor:  JASON C. EDWARDS Certificate Number 15269

OPERATIONS PLAN

Well Name: San Juan 29-7 Unit #169
Location: 1835' FSL, 910' FEL, Section 5, T-29-N, R-7-W
Rio Arriba County, New Mexico
Latitude 36° 44.10, Longitude 107° 35.16
Formation: Blanco Pictured Cliffs
Elevation: 6100' GL

Formation:	Top	Bottom	Contents
Surface	San Jose	1890'	
Ojo Alamo	1890'	2066'	aquifer
Kirtland	2066'	2650'	gas
Fruitland	2650'	2915'	gas
Pictured Cliffs	2915'	3103'	gas
Lewis Shale Marker	3103'		
Total Depth	3115'		

Logging Program:

Open hole - None

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
120-3115'	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 - 3115'	4 1/2"	10.5#	K-55

Tubing Program:

0' -3115'	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 @ 2066'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 2066'. 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/167 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 (479 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.

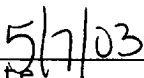
From surface to TD - choke manifold (Reference Figure #3).

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 southeast quarter of Section 5 is dedicated to the Pictured Cliffs.


Drilling Engineer


Date