

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	5. Lease Number SF-078951
1b. Type of Well GAS	Unit Reporting Number 14-08-001-1650
2. Operator BURLINGTON RESOURCES Oil & Gas Company	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 1130' FNL, 1190' FEL Latitude 36° 45.6, Longitude 107° 35.4	8. Farm or Lease Name San Juan 29-7 Unit
10. Field, Pool, Wildcat Blanco Pictured Cliffs	9. Well Number 154
11. Sec., Twn, Rge, Mer. (NMPM) Sec 5, T-29-N, R-7-W	API # 30-039-25717
14. Distance in Miles from Nearest Town 1 mile to Navajo City	12. County Rio Arriba
15. Distance from Proposed Location to Nearest Property or Lease Line 1130'	13. State NM
16. Acres in Lease	17. Acres Assigned to Well NE/4 155.10
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 800'	20. Rotary or Cable Tools Rotary
19. Proposed Depth 3259'	22. Approx. Date Work will Start
21. Elevations (DF, FT, GR, Etc.) 6157' GR	DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS"
23. Proposed Casing and Cementing Program See Operations Plan attached	
24. Authorized by: <u>[Signature]</u> Regulatory/Compliance Administrator	Date 6/27/97

PERMIT NO. _____

APPROVAL DATE

JUL 21 1997

APPROVED BY [Signature]

TITLE [Signature]

DATE JUL 21 1997

Archaeological Report to be submitted

Threatened and Endangered Species Report submitted

NOTE: This format is issued in lieu of U.S. BLM Form 3160-3

NMOCD

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, 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
Revised February 21.
Instructions on
Submit to Appropriate District Office
State Lease - 4 C
Fee Lease - 3 C

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-039-25717	Pool Code 72359	Pool Name Blanco Pictured Cliffs
Property Code 7465	Property Name San Juan 29-7 Unit	Well Number 154
OGRID No. 14538	Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY	Elevation 6157'

10 Surface Location

UL or lot no. A	Section 5	Township 29-N	Range 7-W	Lot Ida	Feet from the 1130	North/South line North	Feet from the 1190	East/West line East	County R.A.
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11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
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12 Dedicated Acres 155.94	13 Joint or Infill	14 Consolidation Code	15 Order No. 155.94 acres for density purposes for the Pict. 315.94 acres for revenue purposes for the Pict.
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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 37.42 8 40 5192.22'	37.66 7 40 5280.00'	6 1130 1190'	5 5281.32'
NMSF-078951			
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 Bradfield Printed Name Regulatory Administrator Title 6-27-97 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. 5/17/97 Date of Survey Signature and Seal of Professional Surveyor NEALE C. EDWARDS NEW MEXICO 68570 68570 Certificate Number			

OPERATIONS PLAN

Well Name: San Juan 29-7 Unit #154
Location: 1130' FNL, 1190' FEL Section 5, T-29-N, R-7-W
 Rio Arriba County, New Mexico
 Latitude 36° 45.6', Longitude 107° 35.4'
Formation: Blanco Pictured Cliffs
Elevation: 6157' GL

Formation:	Top	Bottom	Contents
Surface	San Jose	1902'	
Ojo Alamo	1902'	2109'	aquifer
Kirtland	2109'	2591'	
Fruitland	2591'	2959'	gas
Pictured Cliffs	2959'		gas
Total Depth	3259'		

Logging Program: SFL-LDT-APS.

Coring Program: none

Mud Program:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Vis.</u>	<u>Fluid Loss</u>
0- 200'	Spud	8.4-9.0	40-50	no control
200-3259'	LSND	8.4-9.0	40-60	no control

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

<u>Hole Size</u>	<u>Depth Interval</u>	<u>Csq. Size</u>	<u>Wt.</u>	<u>Grade</u>
12 1/4"	0 - 200'	8 5/8"	23.0#	M-50
6 1/4"	0 - 3259'	3 1/2"	7.7#	WC-70

Tubing Program: - none

Float Equipment: 8 5/8" surface casing - saw tooth guide shoe.
 Centralizers will be run in accordance with Onshore Order #2.

3 1/2" production casing - float shoe on bottom. Three centralizers run every other joint above shoe. Seven centralizers run every 3rd joint to the base of the Ojo Alamo @ 2109'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 2109'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

Wellhead Equipment: 8 5/8" x 3 1/2" x 11" 2000 psi screw on independent wellhead.

San Juan 29-7 Unit #154

Cementing:

8 5/8" surface casing - cement with 215 sx Class "B" cement with 1/4# flocele/sx and 3% calcium chloride (248 cu.ft. of slurry, 200% excess to circulate to surface). WOC 12 hrs. Test casing to 600 psi for 30 minutes.

3 1/2" production casing - Lead w/390 sx of Class "B" w/3% econolite, 10# gilsonite/sx, and 1/2# flocele/sx. Tail w/100 sx 50/50 Class "B" Poz w/2% calcium chloride (834 cu.ft. of slurry, 75% excess to circulate to surface). WOC 12 hrs. If cement does not circulate to surface, a CBL will be run during completion to determine TOC.

BOP and tests:

Surface to TD - 11" 2000 psi (minimum double gate BOP stack (Reference Figure #1 and #2). 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 800 psi.
- * This gas is dedicated.
- * The northeast quarter of the section is dedicated to the Pictured Cliffs.
- * New casing will be utilized.



Drilling Engineer

6/30/97

Date

FEE
LANDS

EXISTING
R-O-W

**BURLINGTON
RESOURCES**
San Juan 29-7 Unit #154
T29N, R7W

800' Fee New Construction
T29N, R7W

Section 5: NWNE 800'

APD MAP #1