

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work
DRILL
070 FARMINGTON, NM

5. Lease Number
SF-078578A
Unit Reporting Number

1b. Type of Well
GAS

6. If Indian, All. or Tribe

2. Operator
BURLINGTON
RESOURCES Oil & Gas Company

7. Unit Agreement Name

3. Address & Phone No. of Operator
PO Box 4289, Farmington, NM 87401
(505) 326-9700

8. Farm or Lease Name
Howell K 7130

9. Well Number
5

4. Location of Well
695' FNL, 840' FEL
Latitude 36° 49.0, Longitude 107° 39.3

10. Field, Pool, Wildcat
Blanco Pic.Cliffs

11. Sec., Twn, Rge, Mer. (NMPM)
Sec 15, T-30-N, R-8-W
API # 30-045- 29790

14. Distance in Miles from Nearest Town
3 miles to Navajo City

12. County
SJ

13. State
NM

15. Distance from Proposed Location to Nearest Property or Lease Line
695'

16. Acres in Lease

17. Acres Assigned to Well
160

18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease
600'

19. Proposed Depth
3017'

20. Rotary or Cable Tools
Rotary

21. Elevations (DF, FT, GR, Etc.)
5857' GR

22. Approx. Date Work will Start

23. Proposed Casing and Cementing Program
See Operations Plan attached

24. Authorized by: [Signature]
Regulatory/Compliance Administrator

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

6-24-98
Date

PERMIT NO. _____

APPROVAL DATE 1/15/99

APPROVED BY _____

TITLE _____

DATE 1/15/99

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.

HOLD G104 FOR NSL (S)

NMOC

District I
PO Box 1990, Hobbs, NM 88241-1990

District II
PO Drawer 00, Artesia, NM 88211-0719

District III
2000 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 REP

070 11/11/96, NM

WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number' 30-045-29790	'Pool Code' 72359	'Pool Name' Blanco Pictured Cliffs
'Property Code' 7130	'Property Name' HOWELL K	'Well Number' 5
'OGRID No.' 14538	'Operator Name' BURLINGTON RESOURCES OIL & GAS COMPANY	'Elevation' 5857'

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
A	15	30N	8W		695	NORTH	840	EAST	SAN J

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' 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

15	5458.20'	695'	840'	17 OPERATOR CERTIFICATE I hereby certify that the information contained hereon is true and complete to the best of my knowledge and belief. Signature: <u>Peggy Bradfield</u> Printed Name: <u>Peggy Bradfield</u> Title: <u>Regulatory Administrator</u> Date: <u>6-24-98</u>
5225.22'	15	2	1	18 SURVEYOR CERTIFICATE I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made or under my supervision, and that the same is true and correct to the best of my belief. Date of Survey: <u>MAY 1, 1996</u> Signature and Seal of Professional Surveyor: <u>NEALE C. EDWARDS</u> Certificate Number: <u>6857</u>
	3	4	4945.38'	
	5281.32'			

OPERATIONS PLAN

Well Name: Howell K #5
Location: 695' FNL, 840' FEL Section 15, T-30-N, R-8-W
 San Juan County, New Mexico
 Latitude 36° 49.0', Longitude 107° 39.3'
Formation: Blanco Pictured Cliffs
Elevation: 5857' GL

Formation:	Top	Bottom	Contents
Surface	Nacimiento	1527'	
Ojo Alamo	1527'	1719'	aquifer
Kirtland	1719'	2355'	
Fruitland	2355'	2717'	gas
Pictured Cliffs	2717'		gas
Total Depth	3017'		

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
200-3017'	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>
8 3/4"	0 - 200'	7"	20.0#	K-55
6 1/4"	0 - 3017'	4 1/2"	10.5#	K-55

Tubing Program: - none

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. Three centralizers run every other joint above shoe. Seven centralizers run every 3rd joint to the base of the Ojo Alamo @ 1719'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 1719'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

Wellhead Equipment: 7" x 4 1/2" 2000 psi screw on independent wellhead.

BURLINGTON RESOURCES OIL & GAS COMPANY HOWELL K #5

695' FNL & 840' FEL, SECTION 15, T30N, R8W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO

APD MAP #1

500' NEW BLM CONSTRUCTION
350' NE/NE SECTION 15, T30N, R8W.
150' NW/NE SECTION 15, T30N, R8W.

