

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-078387 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 87499 (505) 326-9700	8. Farm or Lease Name Howell D 9. Well Number 2B
4. Location of Well 1120' FNL, 790' FWL Latitude 36° 52.4, Longitude 107° 42.3	10. Field, Pool, Wildcat Blanco MV/Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 29, T-31-N, R-8-W API # 30-045-30045
14. Distance in Miles from Nearest Town 4 miles from Navajo Dam Post Office	12. County San Juan 13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 790'	17. Acres Assigned to Well 320 W/2
16. Acres in Lease	
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 1500'	
19. Proposed Depth 8050'	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6562' GR	22. Approx. Date Work will Start
23. Proposed Casing and Cementing Program See Operations Plan attached	DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS"
24. Authorized by: <u>Peggy Cole</u> Regulatory/Compliance Administrator	<u>10-25-99</u> Date

PERMIT NO. _____

APPROVAL DATE 12/20/99

APPROVED BY _____

TITLE _____

DATE 12/20/99

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.

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-102
Revised February 21, 1999.
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-045-30045		2 Pool Code 71599/72319		3 Pool Name Basin Dakota/Blanco Mesaverde		
4 Property Code 7124		5 Property Name HOWELL D			6 Well Number 28	
7 OGRID No. 14538		8 Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY			9 Elevation 6562'	

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
D	29	31N	8W		1120	NORTH	790	WEST	SAN JUAN

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 DK:W/320 MV:W/320	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

<p>16</p> <p>SF-078387</p> <p>29</p> <p>5280.00'</p> <p>5286.60'</p> <p>790'</p> <p>1120'</p> <p>RECEIVED DEC 22 1999 OIL CON. DIV. DIST. 3</p>		<p>17 OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</p> <p> Signature Peggy Cole Printed Name Regulatory Administrator Title 10-25-99 Date</p>
<p>18 SURVEYOR CERTIFICATION</p> <p>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.</p> <p>SEPTEMBER 17, 1999 Date of Survey</p> <p> Signature and Seal of Professional Surveyor</p> <p> Certificate Number 6857</p>		

OPERATIONS PLAN

Well Name: Howell D #2B
Location: 1120' FNL, 790' FWL, Sec 29, T-31-N, R-8-W
San Juan County, NM
Latitude 36° 52.4, Longitude 107° 42.3
Formation: Blanco Mesa Verde/Basin Dakota
Elevation: 6562' GL

<u>Formation Tops:</u>	<u>Top</u>	<u>Bottom</u>	<u>Contents</u>
Surface	San Jose	2198'	
Ojo Alamo	2198'	2284'	aquifer
Kirtland	2284'	2895'	gas
Fruitland	2895'	3409'	gas
Pictured Cliffs	3409'	3513'	gas
Lewis	3513'	4157'	gas
Intermediate TD	3622'		
Mesa Verde	4157'	4522'	gas
Chacra	4522'	5286'	gas
Massive Cliff House	5286'	5339'	gas
Menefee	5339'	5670'	gas
Massive Point Lookout	5670'	6042'	gas
Mancos	6042'	6973'	gas
Gallup	6973'	7711'	gas
Greenhorn	7711'	7764'	gas
Graneros	7764'	7842'	gas
Dakota	7842'		gas
TD	8050'		

Logging Program:

Open hole - IEL-GR, CNL, CDL, ML - TD to intermediate TD
Cased hole - CBL-CCL-GR - TD to surface
Mud logs - from TD to 6500'
Cores - 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- 3622'	LSND	8.4-9.0	30-60	no control
3622- 7300'	Gas	n/a	n/a	n/a

Pit levels will be visually monitored to detect gain or loss of fluid control.

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

<u>Hole Size</u>	<u>Depth Interval</u>	<u>Csg. Size</u>	<u>Wt.</u>	<u>Grade</u>
12 1/4"	0' - 200'	9 5/8"	32.3#	WC-50
8 3/4"	0' - 3622'	7"	20.0#	J-55
6 1/4"	3522' - 8050'	5 1/2"	10.5#	K-55

Tubing Program:

0' - 6042'	1 1/2"	2.76"	J-55
0' - 8050'	1 1/2"	2.90#	J-55

BOP Specifications, Wellhead and Tests:

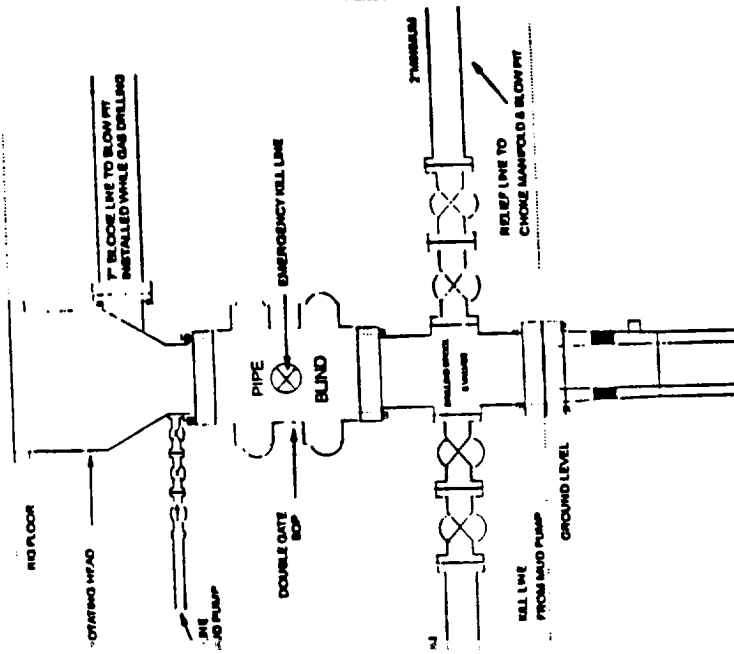
Surface to Intermediate TD -

11" 2000 psi minimum double gate BOP stack (Reference Figure #1).
After nipple-up prior to drilling out surface casing, rams and casing will be tested to 600 psi for 30 minutes.

Intermediate TD to Total Depth -

11" 2000 psi minimum double gate BOP stack (Reference Figure #1).
After nipple-up prior to drilling out intermediate casing, rams and casing will be tested to 1500 psi for 30 minutes.

BOP Configuration 2M psi System

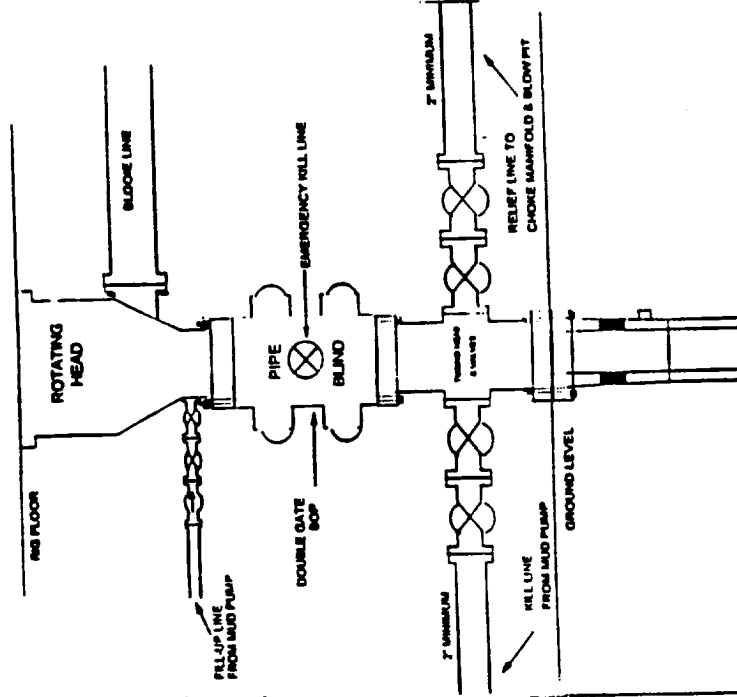


For 2000psi minimum working pressure double gate BOP to be equipped with blind and pipe rams. A Schaffner Type 50 or equivalent rotating head to be installed on the top of the BOP. All equipment is 2000psi working pressure or better.

FIGURE #1

BURLINGTON RESOURCES

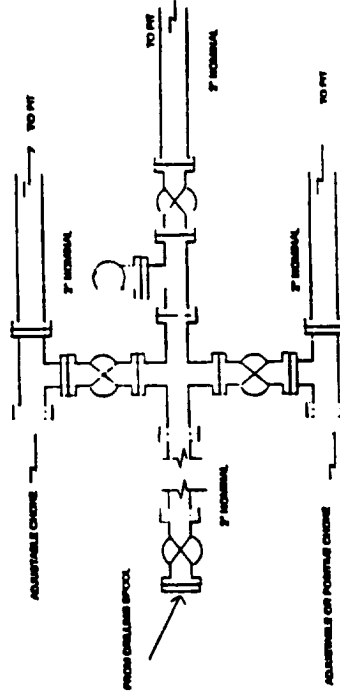
BOP Configuration 2M psi System



Minimum BOP installation for Completion operations, 7 1/16" Bore (6" Nominal), 2,000 psi minimum working pressure double gate BOP to be equipped with blind and pipe rams

FIGURE #2

Choke Manifold Configuration 2M System



Minimum choke manifold installation from surface to Total Depth, 2" minimum, 2000psi working pressure equipment with two chokes.

Figure #3

