

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

070 FARMINGTON, NM

1a. Type of Work DRILL	5. Lease Number NM-0555078
1b. Type of Well GAS	Unit Reporting Number
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
4. Location of Well 1160' FSL, 1060' FWL Latitude 36° 47.6, Longitude 107° 52.6	8. Farm or Lease Name Helms Federal
	9. Well Number 1B
	10. Field, Pool, Wildcat Blanco Mesaverde
	11. Sec., Twn, Rge, Mer. (NMPM) Sec. 22, T-30-N, R-10-W API # 30-045-27998
14. Distance in Miles from Nearest Town 4 miles	12. County San Juan
	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1060'	
16. Acres in Lease	17. Acres Assigned to Well 11/ 323.84
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 2000'	
19. Proposed Depth 5444'	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6182' GR	22. Approx. Date Work will Start
23. Proposed Casing and Cementing Program See Operations Plan attached	
24. Authorized by: <u><i>Penny Cole</i></u> Regulatory/Compliance Administrator	Date 9-10-99

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

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

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.

District I
PO Box 1980, Hobbs, NM 88241-1980

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102

Revised February 21, 1994

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

OIL CONSERVATION DIVISION

PO Box 2088
Santa Fe, NM 87504-2088

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

AMENDED REPORT
070 FARMINGTON, NM

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-		*Pool Code 72319	*Pool Name Blanco Mesaverde
*Property Code 7108	*Property Name HELMS FEDERAL		*Well Number 1B
*GRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY		*Elevation 6182'

¹⁰ Surface Location

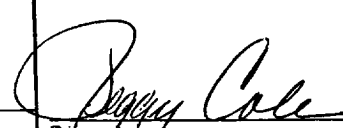
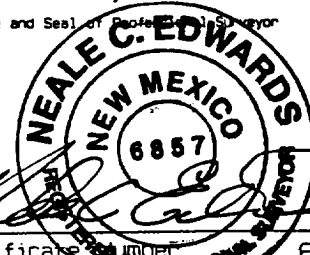
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	22	30N	10W		1160	SOUTH	1060	WEST	SAN JUAN

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 W/323.84	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				¹⁷ OPERATOR CERTIFICATION	
5385.60'				I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief	
LOT 4	LOT 3	LOT 2	LOT 1	 Signature Peggy Cole Printed Name Regulatory Administrator Title 9-10-99 Date	
LOT 5	LOT 6	LOT 7	LOT 8		
NM-0555078					
22				¹⁸ SURVEYOR CERTIFICATION	
LOT 12	LOT 11	LOT 10	LOT 9	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.	
2628.78'				AUGUST 19, 1999	
1060'				Date of Survey	
LOT 13	LOT 14	LOT 15	LOT 16	Signature and Seal of Registered Surveyor	
1160'					
5248.32'				Certificate No. 6857	

OPERATIONS PLAN

Well Name: Helms Federal #1B
Location: 1160' FSL, 1060' FWL, Sec 22, T-30-N, R-10-W
 San Juan County, NM
 Latitude 36° 47.6, Longitude 107° 52.6
Formation: Blanco Mesa Verde
Elevation: 6182'GR

<u>Formation Tops:</u>	<u>Top</u>	<u>Bottom</u>	<u>Contents</u>
Surface	San Jose	1434'	
Ojo Alamo	1434'	1570'	
Kirtland	1570'	2219'	
Intermediate TD	1670'		
Fruitland	2219'	2772'	
Pictured Cliffs	2772'	2906'	
Lewis	2906'	3494'	
Huerfanito Bentonite	3494'	3748'	
Chacra	3748'	4419'	
Massive Cliff House	4419'	4544'	
Menefee	4544'	5044'	
Massive Point Lookout	5044'		
TD	5444'		

Logging Program: Cased hole - GR/CBL

Mud Program:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Vis.</u>	<u>Fluid Loss</u>
0- 80'	Spud	8.4-9.0	40-50	no control
80-1670'	LSND	8.4-9.0	30-60	no control
1670-5444'	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' - 80'	9 5/8"	32.3#	H-40
8 3/4"	0' - 1670'	7"	20.0#	J-55
6 1/4"	0' - 5444'	4 1/2"	10.5#	J-55

Tubing Program:

0' - 5444' 2 3/8" 4.70# EUE

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.

BOP Specifications, Wellhead and Tests:**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.

BURLINGTON RESOURCES OIL & GAS COMPANY HELMS FEDERAL #1B

1160' FSL & 1060' FWL, SECTION 22, T30N, R10W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO

APD MAP #1

NO NEW CONSTRUCTION
SWSW SECTION 22, T30N, R10W.

