

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 I-22-IND-2772 Unit Reporting Number
1b. Type of Well GAS	6. If Indian, All. or Tribe Ute Mountain Ute
2. Operator BURLINGTON RESOURCES 14538 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 18725 Ute Mountain Ute 9. Well Number 52
4. Location of Well 1620' FSL, 1765' FEL Latitude 36° 59.1, Longitude 108° 17.6	10. Field, Pool, Wildcat 96799 INC 32N44W15E; HERMOSA (G) 160 96354 Barker Dome Ismay 160 96353 Barker Dome Desert Creek 160 96352 Barker Dome Akah/U. Brkr Crk 160 96351 Barker Dome 160 11. Sec., Twn, Rge, Mer. (NMPM) J Sec 15, T-32-N, R-14-W API # 30-045-29510
14. Distance in Miles from Nearest Town 5 miles to LaPlata	12. County SJ 13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1620'	17. Acres Assigned to Well 320, 160, 640
16. Acres in Lease	18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 60'
19. Proposed Depth 9325	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6881'	22. Approx. Date Work will Start SEE ATTACHED CONDITIONS OF APPROVAL
23. Proposed Casing and Cementing Program See Operations Plan attached	
24. Authorized by: <i>Perry Bradwell</i> Regulatory/Compliance Administrator	Date 2/6/98

PERMIT NO.

APPROVAL DATE

APPROVED FOR A PERIOD
NOT TO EXCEED 1 YEAR.

APPROVED BY *Jim Jacobs*

TITLE *Acting Area Manager*

DATE

3/26/98

Archaeological Report submitted

Threatened and Endangered Species Report submitted

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

4000 E-104 FOR BARKER DOME L. BARKER CREEK +
TICKLE GULCH (G)

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

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

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

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 30-045-29570	*Pool Code 96354, 71560 96352, 96353	*Property Name Barker Dome-Desert Creek, Barker Dome Isma Barker Dome-Akah/Upper Barker Creek	*Well Number 52
*Property Code 18725	UTE MOUNTAIN UTE		*Elevation 6881'
*OGRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY		

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot	Feet from the	North/South line	Feet from the	East/West line	County
J	15	32N	14W		1620	South	1765	East	SAN JUAN

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot	Feet from the	North/South line	Feet from the	East/West line	County

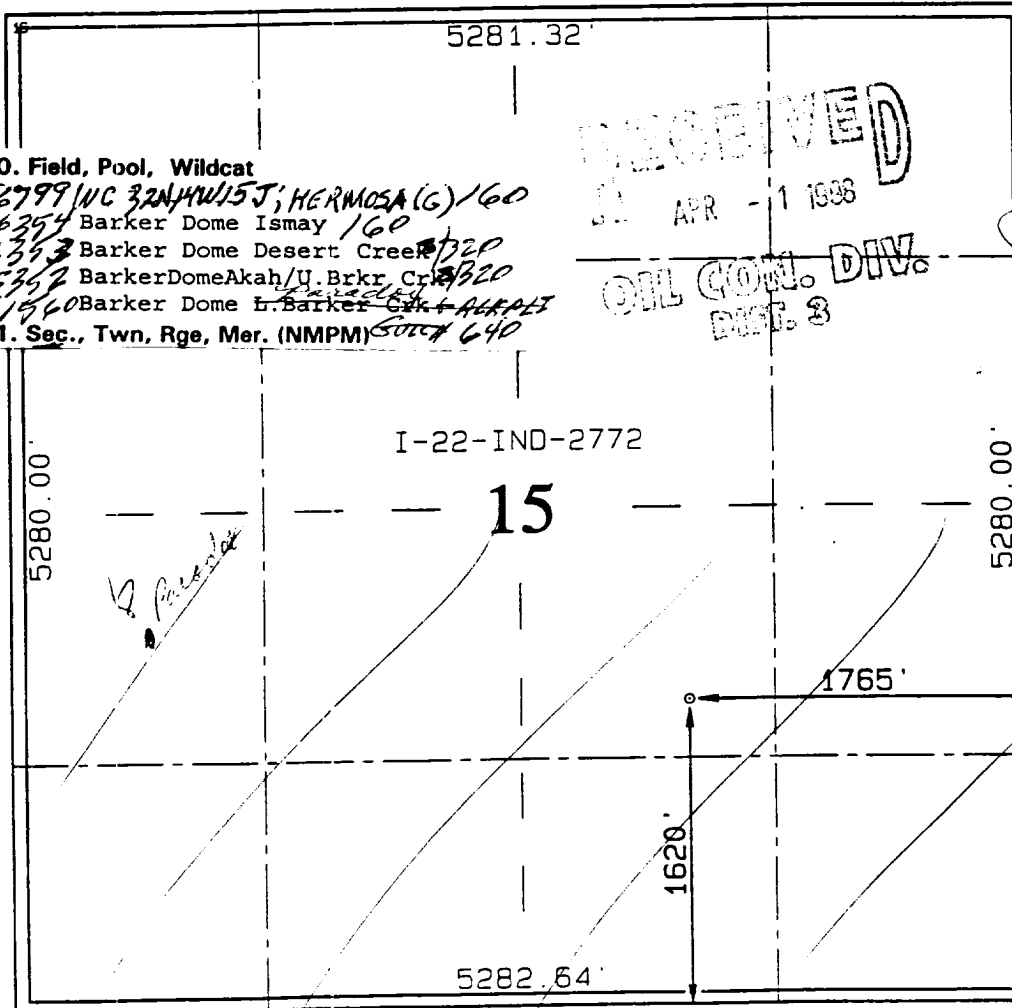
¹² Dedicated Acreage S-320, 160, 640	¹³ Joint or Infill 5/320	¹⁴ Consolidation Code	¹⁵ Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

10. Field, Pool, Wildcat

96799/UC 32N14W15J, HERMOSA (G)/60
96354 Barker Dome Ismay 160
96353 Barker Dome Desert Creek 1620
96352 Barker Dome Akah/U. Brkr Crk 1620
71560 Barker Dome E. Barker Crk + Akah 1620

11. Sec., Twn, Rge, Mer. (NMPM)



¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

Peggy Bradfield
Signature

Peggy Bradfield
Printed Name

Regulatory Administrator
Title

2/6/98
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.

NOVEMBER 17, 1997
Date of Survey

Signature and Seal of the Surveyor

NEALE C. EDWARDS
NEW MEXICO
6857
6857
Certificate Number
PROFESSIONAL SURVEYOR

February 6, 1998

OPERATIONS PLAN

Well Name: Ute Mtn Ute #52
Location: 1620' FSL, 1765' FEL Section 15, T-32-N, R-14-W
San Juan County, NM
Formation: Wildcat Hermosa; Barker Dome Desert Creek; Barker Dome Ismay;
Barker Dome Akah/Upper Barker Creek; Barker Dome Lower Barker
Creek
Elevation: 6881' GR

Formation:	Top	Bottom	Contents
Surface	Pt Lookout	1179'	
Mancos	765'	1929'	
Niobrara	1929'	2663'	
Greenhorn	2663'	2713'	
Graneros	2713'	2787'	
Dakota	2787'	3010'	gas
Morrison	3010'	3878'	fresh water
Summerville	3878'	3972'	
Entrada	3972'	4600'	salt water
Chinle	4600'	5479'	
Cutler	5479'	7121'	
Hermosa	7121'	8269'	
Ismay	8269'	8430'	gas (potentially 100-1580 ppm H ₂ S)
Desert Creek	8430'	8562'	gas (potentially 4-11,900 ppm H ₂ S)
Akah	8562'	8740'	
Upper Barker Creek	8740'	8848'	gas (potentially 0-12,000 ppm H ₂ S)
Lower Barker Creek	8848'	8949'	
Upper Alkali Gulch	8949'	9434'	
Lower Alkali Gulch	9434'	9319'	
Molas	9319'		
Total Depth	9325'		

Logging Program:

Mud logs - Niobrara to Total Depth

Wireline Logs - AIT-SP-GR-Cal, Micro-SP-GR-Cal, FMI TD to surface csg

Mud Program:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Vis</u>	<u>Fluid Loss</u>
0 - SCP	Spud	8.4-8.9	40	No Control
SCP-T.Ismay	Fresh Water	8.4-8.6	26-30	No Control
T.Ismay-TD	LSND/Dispersed	8.4-9.0	36-50	Less than 12

Casing Program: (all casing will be new)

<u>Hole Size</u>	<u>Depth Interval</u>	<u>Csq.Size</u>	<u>Wt.</u>	<u>Grade</u>
12 1/4"	0' - 1015'	8 5/8"	24.0#	K-55 LT&C
7 7/8"	0' - 9325'	5 1/2"	17.0#	L-80 LT&C

Tubing Program: 0' - 9325' 2 7/8" tubing

BURLINGTON RESOURCES OIL & GAS COMPANY UTE MTN UTE #52

1620' FSL 1765' FEL SEC 15, T32N, R14W
SAN JUAN COUNTY, NEW MEXICO

APD MAP #1

NO NEW CONSTRUCTION
NW/SE SECTION 15, T32N, R14W

