

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

RECEIVED
16

MAR 23 PM 1:19
FARMINGTON, NM

1a. Type of Work
DRILL

5. Lease Number
SF-078487C
Unit Reporting Number

1b. Type of Well
GAS

6. If Indian, All. or Tribe

2. Operator
**BURLINGTON
RESOURCES** Oil & Gas Company

RECEIVED
JUN 21 1999

Agreement Name

3. Address & Phone No. of Operator
PO Box 4289, Farmington, NM 87499
(505) 326-9700

OIL CON. DIV.
DIST. 3

8. Farm or Lease Name
Sunray
9. Well Number
8M

7560

4. Location of Well
1005' FSL, 1110' FEL
Latitude 36° 41.5, Longitude 107° 37.5

10. Field, Pool, Wildcat
Blanco MV/Basin DK
11. Sec., Twn, Rge, Mer. (NMPM)
P Sec. 5, T-29-N, R-8-W
API # 30-045-29893

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

12. County San Juan 13. State NM

15. Distance from Proposed Location to Nearest Property or Lease Line
1005'

16. Acres in Lease

17. Acres Assigned to Well
E / MV-324.58 / DK-320.00

18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease
400'

19. Proposed Depth
7820'

This action is subject to technical and
procedural review pursuant to 43 CFR 3165.3
and appeal pursuant to 43 CFR 3165.4.

20. Rotary or Cable Tools
Rotary

21. Elevations (DF, FT, GR, Etc.)
6450' 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: Regulatory/Compliance Administrator

2-15-99
Date

PERMIT NO. _____

APPROVAL DATE

JUN 17 1999

APPROVED BY /S/ Duane W. Spencer

TITLE _____

Team Lead, Petroleum Management

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.

OK @

NMOC

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

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

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

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
PO Box 2088, Santa Fe, NM 87504-2088

CORRECTION, NM
AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-045-29893	Pool Code 72319/71599	Pool Name Blanco Mesaverde/Basin Dakota
Property Code 7560	Property Name SUNRAY	Well Number 8M
GRID No. 14538	Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY	Elevation 6450'

10 Surface Location

UL or lot no. P	Section 5	Township 29N	Range 8W	Lot Idn	Feet from the 1005	North/South line SOUTH	Feet from the 1110	East/West line EAST	County SAN JUAN
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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
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Dedicated Acres MV - E/324.58 DK - S/320	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

16	5138.76'	1320.00'	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 Date 2-15-99	
1373.46'	4	3	2	1
1290.96'	SF-078487C			1299.54'
5	SF-078487C			2599.74'
2581.92'	5120.28'			1005'
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. DECEMBER 3, 1998 Date of Survey Signature and Seal of Professional Surveyor NEALE C. EDWARDS NEW MEXICO 6857 Certificate Number				

OPERATIONS PLAN

Well Name: Sunray #8M
Location: 1005' FSL, 1110' FEL, Sec 5, T-29-N, R-8-W
San Juan County, NM
Latitude 36° 41.5, Longitude 107° 37.5
Formation: Blanco Mesa Verde/Basin Dakota
Elevation: 6450'GR

<u>Formation Tops:</u>	<u>Top</u>	<u>Bottom</u>	<u>Contents</u>
Surface	Tertiary	2032'	
Ojo Alamo	2032'	2201'	aquifer
Kirtland	2201'	2829'	aquifer
Fruitland	2829'	3126'	gas
Pictured Cliffs	3126'	3226'	oil/gas
Lewis	3226'	4748'	oil/gas
Intermediate TD	3326'		
Cliff House	4748'	5326'	oil/gas
Point Lookout	5326'	5628'	oil/gas
Mancos Shale	5628'	6581'	oil/gas
Gallup	6581'	7314'	oil/gas
Greenhorn	7314'	7373'	oil/gas
Graneros	7373'	7417'	oil/gas
Two Wells	7417'	7526'	oil/gas
Paguate	7526'	7543'	oil/gas
Cubero	7543'	7642'	oil/gas
Encinal Canyon	7642'	7753'	oil/gas
Morrison	7753'		salt
TD (4 1/2" liner)	7820'		

Logging Program:

Wireline Logs: Platform Express, Microlog, CMR

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
200-3326'	LSND	8.4-9.0	30-60	no control
3326-7820'	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>Csq.Size</u>	<u>Wt.</u>	<u>Grade</u>
12 1/4"	0' - 200'	9 5/8"	32.3#	WC-50
8 3/4"	0' - 3326'	7"	23.0#	J-55
6 1/4"	3226' - 7820'	4 1/2"	10.5#	J-55

Tubing Program:

0' - 7820' 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.

BURLINGTON RESOURCES OIL & GAS COMPANY SUNRAY #8M

1005' FSL & 1110' FEL, SECTION 5, T29N, R8W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO

APD MAP #1

150' NEW BLM CONSTRUCTION
SE/SE SECTION 5, T29N, R8W.

