

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

RECEIVED
OCT 20 PM 2:08
BUREAU OF LAND MANAGEMENT, NM

1a. Type of Work DRILL	5. Lease Number SF-078125 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 Sunray A 9. Well Number 1B	
4. Location of Well 915' FSL, 1880' FEL Latitude 36° 48.5, Longitude 107° 52.1	10. Field, Pool, Wildcat Blanco MV/Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 15, T-30-N, R-10-W API # 30-045-30011	
14. Distance in Miles from Nearest Town 5 miles from Aztec	12. County San Juan	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 915'	17. Acres Assigned to Well 328 E/2 314.85	
16. Acres in Lease	18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 400'	
19. Proposed Depth 7627'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6427' 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><i>Regan Cole</i></u> Regulatory/Compliance Administrator	Date <u>9-10-99</u>	

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.

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, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

AMENDED REPORT

070 FARMINGTON, NM

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045- 30011	² Pool Code 72319/71599	³ Pool Name Blanco Mesaverde/Basin Dakota
⁴ Property Code 7561	⁵ Property Name SUNRAY A	⁶ Well Number 1B
⁷ OGRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY	⁹ Elevation 6427'

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
0	15	30N	10W		915	SOUTH	1880	EAST	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 MV: E/320 314.18 DK: E/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

2644.62'	LOT 4	LOT 3	LOT 2	LOT 1	5126.88'
	LOT 5	LOT 6	LOT 7	LOT 8	
	LOT 12	LOT 11	LOT 10	LOT 9	
	LOT 13	LOT 14	LOT 15	LOT 16	
2636.70'					

5231.16'

39

38.68

39.30

38.98

39.55

39.26

39.55

1880'

915'

5385.60'

SF-078125

15

DEC 22 1993

OIL CON. DIV.

DEC 3

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 Cole
Printed Name Peggy Cole
Title Regulatory Administrator
Date 9-10-99

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.
AUGUST 24, 1999
Date of Survey
Signature and Seal of Professional Surveyor
NEALE C. EDWARDS
NEW MEXICO
6857
Certificate Number 6857

OPERATIONS PLAN

Well Name: Sunray A #1B
Location: 915' FSL, 1880' FEL, Sec 15, T-30-N, R-10-W
San Juan County, NM
Latitude 36° 48.5, Longitude 107° 52.1
Formation: Blanco Mesa Verde/Basin Dakota
Elevation: 6427' GL

<u>Formation Tops:</u>	<u>Top</u>	<u>Bottom</u>	<u>Contents</u>
Surface	San Jose	1709'	
Ojo Alamo	1709'	1839'	aquifer
Kirtland	1839'	2503'	gas
Fruitland	2503'	3060'	gas
Pictured Cliffs	3060'	3225'	gas
Lewis	3225'	3795'	gas
Intermediate TD	3325'		
Mesa Verde	3795'	4069'	gas
Chacra	4069'	4679'	gas
Massive Cliff House	4679'	4848'	gas
Menefee	4848'	5309'	gas
Massive Point Lookout	5309'	5679'	gas
Mancos	5679'	6580'	gas
Gallup	6580'	7309'	gas
Greenhorn	7309'	7369'	gas
Graneros	7369'	7418'	gas
Dakota	7418'		gas
TD (4 1/2" liner)	7627'		

Logging Program:

Cased hole - IEL-GR, CNL-CDL, CBL-CCL-GR - TD to intermediate TD

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- 3325'	LSND	8.4-9.0	30-60	no control
3325- 7627'	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' - 3325'	7"	20.0#	J-55
6 1/4"	3325' - 7627'	5 1/2"	15.5#	K-55

Tubing Program:

0' - 5679'	1 1/2"	2.76#	J-55
0' - 7627'	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.

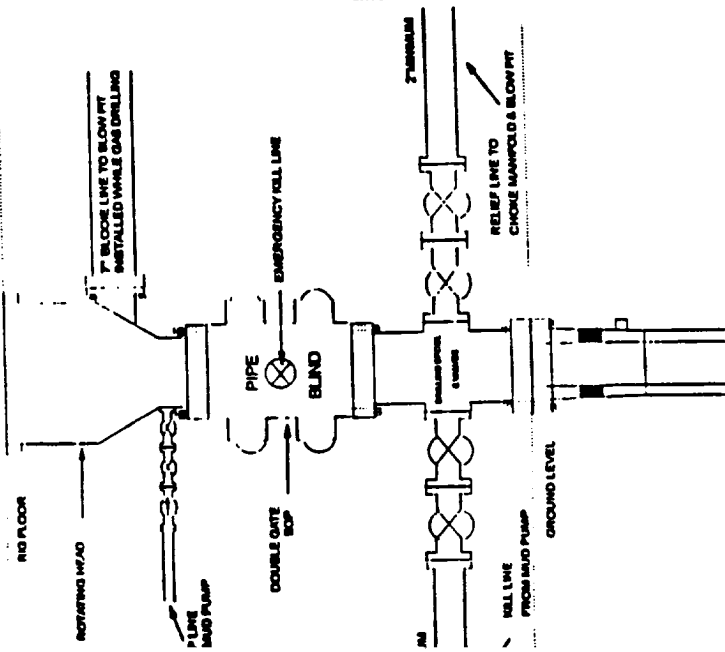
Intermediate TD to Total Depth -

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.

Surface to Total Depth -

2" nominal, 2000 psi minimum choke manifold (Reference Figure #3).

BOP Configuration 2M psi System

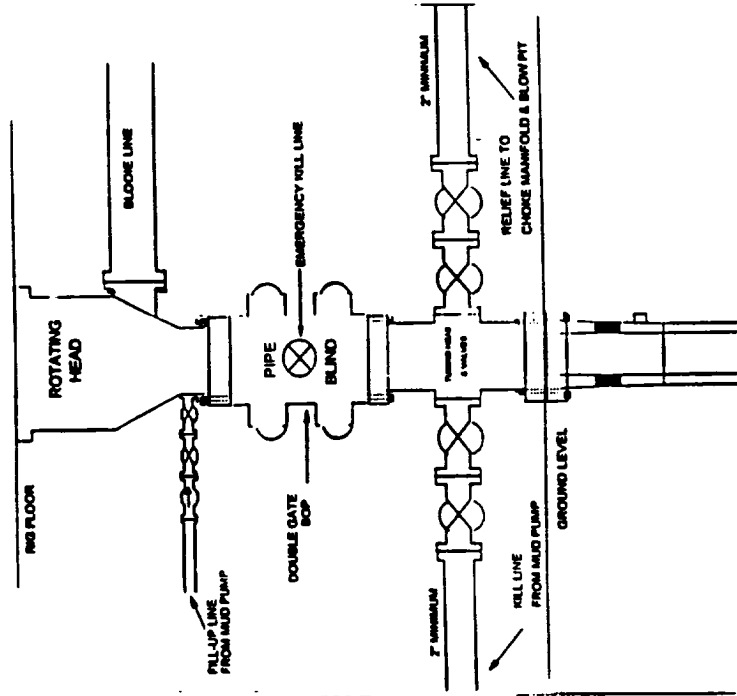


Bore, 2000psi minimum working pressure double gate BOP to be equipped blind and pipe rams. A Schaffer Type 50 or equivalent rotating head to be installed on the top of the BOP. All equipment is 2000psi working pressure or better.

FIGURE #1

BURLINGTON RESOURCES

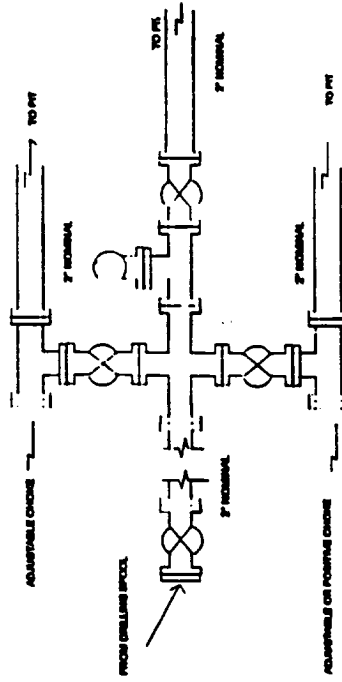
BOP Configuration 2M psi System



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

BURLINGTON RESOURCES OIL & GAS COMPANY SUNRAY A #1B

915' FSL & 1880' FEL, SECTION 15, T30N, R10W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO

APD MAP #1

200' NEW BLM CONSTRUCTION
SWSE SECTION 15, T30N, R10W.

