UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

	To a of Mark	5. Lease Number
a.	Type of Work	NMSF-078204
	DRILL	Unit Reporting Number
L	Type of Well	6. If Indian, All. or Tribe
b.	GAS	
2.	Operator	7. Unit Agreement Name
4.	BURLINGTON RESOURCES Oil & Gas Company (3.2425.26)	
	Address & Phone No. of Operator	8. Farm or Lease Name
3.	PO Box 4289, Farmington, NM 87499 2002	Sunray D
	TO BOX 1205/ Talming	Well Number
	(505) 326-9700	N· ∼ 2B
	Location of Well	0. Field, Pool, Wildcat
4.	1450' FSL, 1850' FEL	Blanco MV/Basin DK
	1450 15L, 1650 1LL	11. Sec., Twn, Rge, Mer. (NMPM)
		Sec. 21, T-30-N, R-10-W
	Latitude 36° 47.7, Longitude 107° 53.2	API # 30-045- 3 110 7
14.	Distance in Miles from Nearest Town	12. County 13. State
14.	7.3 Mls to Hwy 550 & Hwy 173 North of Azted	c NM San Juan NM
	•	
15.	Distance from Proposed Location to Nearest Property or Le	ase Line
	1450'	
15. 16.		17. Acres Assigned to Well
16.	1450' Acres in Lease	17. Acres Assigned to Well 326.44
	Distance from Proposed Location to Nearest Well, Drig, Con	17. Acres Assigned to Well 326.44 mpl, or Applied for on this Lease
16. 18.	Distance from Proposed Location to Nearest Well, Drlg, Con 1106'	17. Acres Assigned to Well 326.44 mpl, or Applied for on this Lease 20. Rotary or Cable Tools
16.	Distance from Proposed Location to Nearest Well, Drig, Con	17. Acres Assigned to Well 326.44 mpl, or Applied for on this Lease
16. 18. 19.	Distance from Proposed Location to Nearest Well, Drlg, Cor 1106' - 1032 - 1032 - 1032 - 1032 - 1033	17. Acres Assigned to Well 326.44 mpl, or Applied for on this Lease 20. Rotary or Cable Tools
16. 18.	Distance from Proposed Location to Nearest Well, Drig, Con 1106' - 1080	17. Acres Assigned to Well 326.44 mpl, or Applied for on this Lease 20. Rotary or Cable Tools Rotary
16. 18. 19.	Distance from Proposed Location to Nearest Well, Drlg, Con 1106' Proposed Depth 7630 Elevations (DF, FT, GR, Etc.) 6324 GR Proposed Casing and Cementing Program	17. Acres Assigned to Well 326.44 mpl, or Applied for on this Lease 20. Rotary or Cable Tools Rotary 22. Approx. Date Work will Start
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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.

NMOCE

DISTRICT I 1625 N. French Dr., Hobbs, N.M. 88240

1000 Rio Brazos Rd., Aztec, N.M. 87410

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised August 15, 2000

DISTRICT II 811 South First, Artesia, N.M. 88210

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT IV

DISTRICT III

2040 South Pacheco, Santa Fe, NM 87506

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code	Pool Name	
30-045 3//07	72319/71599	Blanco MV/Basin DK	4= 1, 11 - 1
⁴ Property Code		Property Name	• Well Number
7566		SUNRAY D	2B
OGRID No.		Operator Name	Elevation
	BURLINGTON F	RESOURCES OIL & GAS, INC.	6324'
14538			

¹⁰ Surface Location East/West line County Feet from the Feet from the North/South line Lot ldn Range UL or lot no. Section Township SAN JUAN **EAST** 1450 SOUTH 1850 21 30-N 10-W

Location If Different From Surface

			Borre	om noie	Docarron 1	Different Tre			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
18 Dedicated Acre			19 Joint or	Infill	¹⁴ Consolidation (Code	15 Order No.		
MV/DK-E/3	26.44					•			

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

LOT 12 LOT 12 LOT 12 LOT 13 LOT 14 LOT 15 LOT 16 Regulatory Title Date Regulatory Title Date Regulatory Title Date Regulatory Title Date LOT 10 18 SURVET I hereby corrify that was plotted from flair me or winder my supplied from flair my supplied fl	LOT 4	ьот з	200 mil 200	LOT 1	17 OPERATOR I hereby certify that is true and complete to bellet. Signature Peggy Cole Printed Name
LOT 12 LAT. 36'47'40.6" N LONG. 107'53'10.9" W. (N.A.D. 1927) B14' 518'	LOT 5	2	211.01.	BC. 1967	Title /
LOT 13 LOT 14 LOT 15 .0	LOT 12	LAT. 36'47'40.6" N LONG. 107'53'10.9" W.	814' 518'	2628.10' (M)	Date of Survey
BC. 1967 2663.95' (M) BC. 1967	LOT 13	FD 3 1/2" BLM	15 to 150.	LOT 16 8	Signature Sin See

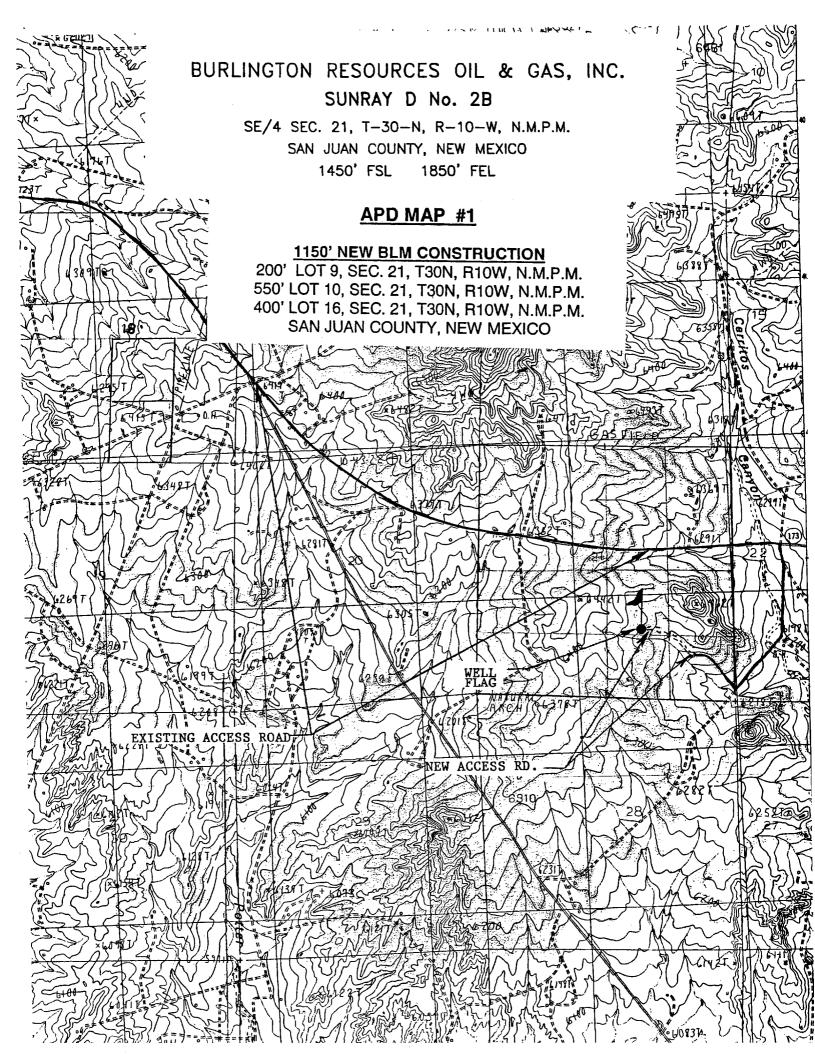
OPERATOR CERTIFICATION by certify that the information contained herein

ulatory Supervisor

1-4-02

SURVEYOR CERTIFICATION





OPERATIONS PLAN

Well Name: Sunray D 2B

1450'FSL, 1850'FEL, Sec.21, T-30-N, R-10-W Location:

San Juan County, NM

Latitude 36° 47.7'N, Longitude 107° 53.2'W

Blanco MV/Basin Dakota Formation:

6324'GL Elevation:

Formation Tops:	<u>Top</u> San Jose	Bottom 1607'	<u>Contents</u>
Surface	1607'	1696'	aquifer
Ojo Alamo	1696'	2588'	gas
Kirtland	2588'	2886 '	5
Fruitland			~~~
Pictured Cliffs	2886'	3022'	gas
Lewis	3022'	3616'	gas
Intermediate TD	3122'		
Mesaverde	3616 ′	3865 ′	gas
Chacra	3865 ′	4536 '	gas
Massive Cliff House	4536 ′	4691'	gas
Menefee	4691'	5171 '	gas
Massive Point Lookout	5171 ′	5506 ′	gas
Mancos Shale	5506 ′	6411 ′	gas
Gallup	6411 '	7140′	gas
Greenhorn	7140'	7196'	gas
Graneros	7196 '	7250 ′	gas
Dakota	7250 ′	7592 '	gas
Morrison	7592 ′		
TD	7630'		

Logging Program:

Open hole logs - Platform Express: GR/AIT-TD to 3600'

Rhob/Neutron-TD to minimum ops depth

Cased hole logs - CBL/GR - TD to surface.

Mudlogger- 7040' to TD.

Cores - none

Mud Program:

u Program				
Interva	al Type			Fluid Loss
0- 20				no control
200- 3	122' LSND		_	no control
3122- 70	530' Air/N2	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):

Hole Size	Depth Interval	Csg.Size	Wt.	
12 1/4"	0' - 200'	9 5/8"	32.3#	
8 3/4"	0' - 3122'	7"	20.0#	
6 1/4"	3022' - 7630'	4 1/2"	10.5#	J-55

Tubing Program:

0' - 7630' 2 3/8" 4.7# J-55

BOP Specifications, Wellhead and Tests:

Surface to Intermediate TD -

11" 3000 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" 3000 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, 3000 psi minimum choke manifold (Reference Figure #3).

Completion Operations -

7 1/16" 3000 psi double gate BOP stack (Reference Figure #2). After nipple-up prior to completion, pipe rams, casing and liner top will be tested to 2000 psi for 15 minutes.

Wellhead -

9 5/8" x 7" x 2 3/8" x 3000 psi tree assembly.

General -

- · Pipe rams will be actuated once each day and blind rams will be actuated once each trip to test proper functioning.
- An upper kelly cock valve with handle available and drill string valves to fit each drill string will be available on the rig floors at all times.
- BOP pit level drill will be conducted weekly for each drilling
- All BOP tests and drills will be recorded in daily drilling reports.
- Blind and pipe rams will be equipped with extension hand wheels.

Cementing:

9 5/8" surface casing - cement with 159 sx Class "B" cement with 1/4# celloflake/sx and 3% calcium chloride (188 cu.ft. of slurry, 200% excess to circulate to surface). WOC 8 hrs. Test casing to 600 psi for 30 minutes.

Saw tooth guide shoe on bottom. Bowspring centralizers will be run in accordance with Onshore Order #2.

7" intermediate casing -

Lead w/319 sx 50/50 Class G/TXI lightweight w/2.5% sodium metasilicate, 10# gilsonite/sx and 1/2# celloflake/sx, 2% Calcium Chloride. Tail w/90 sx 50/50 Class "G" Poz, 2% gel, 1/4 pps celloflake, 5 pps gilsonite, 0.1% antifoam agent, 2% Calcium Chloride (938 cu.ft. of slurry, 100% excess to circulate to surface.) WOC minimum of 8 hours before drilling out intermediate casing. If cement does not circulate to surface, a CBL will be run during completion operations to determine TOC. Test casing to 1500 psi for 30 minutes.

See attached alternative intermediate lead slurry.

7" intermediate casing alternative two stage: Stage collar at 2488'. First stage: cement with 149 sx 50/50 Class "G" Poz w/2% calcium chloride, 2% gel, 1/4 pps celloflake, 5 pps gilsonite, 0.1% antifoam agent. Second stage: 290 sx 50/50 Class G/TXI lightweight w/2.5% sodium metasilicate, 2% calcium chloride, 10# gilsonite/sx and 1/2# celloflake/sx (938 cu.ft., 100% excess to circulate to surface).

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. Bowspring centralizers spaced every other joint off bottom, to the base of the Ojo Alamo at 1696'. Two turbolating centralizers at the base of the Ojo Alamo at 1696'. Bowspring centralizers spaced every fourth joint from the base of the Ojo Alamo to the base of the surface casing.

- 4 1/2" Production Casing -Cement to cover minimum of 100' of 4 1/2" x 7" overlap. Lead with 460 sx 50/50 Class "G" Poz with 5% gel, 0.25# celloflake/sx, 5# gilsonite/sx, 0.1% retardant and 0.25% fluid loss additive, 0.15% dispersant, 0.1% antifoam agent (662 cu.ft.), 40% excess to cement 4 1/2" x 7" overlap). WOC a minimum of 18 hrs prior to completing.
- 4 1/2" production casing alternative: Lead w/182 sx 9.5 PPG Litecrete Blend w/0.11% dispersant, 0.5% fluid loss. Tail w/174 sx Class G 50/50 poz w/5% gel, 0.25 pps celloflake, 5 pps gilsonite, 0.25% fluid loss, 0.15% dispersant, 0.1% retarder, 0.1% antifoam (709 cu.ft., 50% excess to cement 4 $\frac{1}{2}$ " x 7" overlap).

Note: If open hole logs are run, cement volumes will be based on 25% excess over caliper volumes.

Cement float shoe on bottom with float collar spaced on top of float shoe.

- To facilitate higher hydraulic stimulation completion Note: work, no liner hanger will be used. In its place, a long string of 4 1/2" casing will be run and cemented with a minimum of 100' of cement overlap between the 4 1/2" x 7" casing strings. After completion of the well, a 4 1/2" retrievable bridge plug will be set below the top of cement in the 4 1/2" x 7" overlap. The 4 1/2" casing will then be backed off above the top of cement in the 4 1/2" x 7" overlap and laid down. The 4 1/2" bridge plug will then be retrieved and the production tubing will be run to produce the well.
- If hole conditions permit, an adequate water spacer will be pumped ahead of each cement job to prevent cement/ mud contamination or cement hydration.

Special Drilling Operations (Gas/Mist Drilling):

The following equipment will be operational while gas/mist drilling:

- An anchored blooie line will be utilized to discharge all cuttings and circulating medium to the blow pit a minimum of 100' from the wellhead.
- The blooie line will be equipped with an automatic igniter or pilot light.
- Compressors will be located a minimum of 100' from the wellhead in the opposite direction from the blooie line.
- Engines will have spark arresters or water cooled exhaust.
- Deduster equipment will be utilized.
- The rotating head will be properly lubricated and maintained.
- A float valve will be utilized above the bit.
- Mud circulating equipment, water, and mud materials will be sufficient to maintain control of the well.