UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

a.	Type of Work	5. Lease Number
•	DRILL	NMNM03195
	DATE:	Unit Reporting Number
•	Type of Well GAS	6. If Indian, All. or Tribe
_	Operator	7. Unit Agreement Name
	BURLINGTON RESOURCES Oil & Gas Company	
	Address & Phone No. of Operator	8. Farm or Lease Name
	PO Box 4289, Farmington, NM 87499	Sunray J 9. Well Number
	(505) 326-9700	1B
	Location of Well	10. Field, Pool, Wildcat
	1445'FSL, 1870'FEL	Blanco Mesa Verde/ Basin Dakota
	Latitude 36 ^O 49.3, Longitude 107 ^O 55.3	11. Sec., Twn, Rge, Mer. (NMPM) Sec. 7, T-30-N, R-10-W
	Latitude 36° 49.3, Longitude 107 33.3	API # 30-045- 30408
4.	Distance in Miles from Nearest Town	12. County 13. State
••		
••	4.8 miles from int. of Hwy 550 & Hwy 173 in A	ztec, NM San Juan NM
	4.8 miles from int. of Hwy 550 & Hwy 173 in A Distance from Proposed Location to Nearest Property or Lease 1445'	ztec, NM San Juan NM
5.	Distance from Proposed Location to Nearest Property or Lease	ztec, NM San Juan NM
15. 16.	Distance from Proposed Location to Nearest Property or Lease 1445' Acres in Lease Distance from Proposed Location to Nearest Well, Drlg, Compl,	Line 17. Acres Assigned to Well 320.37 S/2
5. 6. 8.	Distance from Proposed Location to Nearest Property or Lease 1445' Acres in Lease Distance from Proposed Location to Nearest Well, Drlg, Compl, 962'	Line 17. Acres Assigned to Well 320.37 S/2 or Applied for on this Lease
5. 6.	Distance from Proposed Location to Nearest Property or Lease 1445' Acres in Lease Distance from Proposed Location to Nearest Well, Drlg, Compl,	Line 17. Acres Assigned to Well 320.37 S/2
5. 6. 8. 9.	Distance from Proposed Location to Nearest Property or Lease 1445' Acres in Lease Distance from Proposed Location to Nearest Well, Drlg, Compl, 962' Proposed Depth 7379' Elevations (DF, FT, GR, Etc.)	Line 17. Acres Assigned to Well 320.37 S/2 or Applied for on this Lease 20. Rotary or Cable Tools
15. 16.	Distance from Proposed Location to Nearest Property or Lease 1445' Acres in Lease Distance from Proposed Location to Nearest Well, Drlg, Compl, 962' Proposed Depth 7379' Elevations (DF, FT, GR, Etc.) 6247' GR	Line 17. Acres Assigned to Well 320.37 S/2 or Applied for on this Lease 20. Rotary or Cable Tools Rotary 22. Approx. Date Work will Start
5. 6. 8. 9.	Distance from Proposed Location to Nearest Property or Lease 1445' Acres in Lease Distance from Proposed Location to Nearest Well, Drlg, Compl, 962' Proposed Depth 7379' Elevations (DF, FT, GR, Etc.) 6247' GR This action is successful acres of the proposed Casing and Cementing Program and appeal pursuant	Line 17. Acres Assigned to Well 320.37 S/2 or Applied for on this Lease 20. Rotary or Cable Tools Rotary 22. Approx. Date Work will Start
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5. 6. 8. 9.	Distance from Proposed Location to Nearest Property or Lease 1445' Acres in Lease Distance from Proposed Location to Nearest Well, Drlg, Compl, 962' Proposed Depth 7379' Elevations (DF, FT, GR, Etc.) 6247' GR This action is successful acres of the proposed Casing and Cementing Program and appeal pursuant	Line 17. Acres Assigned to Well 320.37 S/2 To Applied for on this Lease 20. Rotary or Cable Tools Rotary 22. Approx. Date Work will Start reught to 45 CPH 3165.3 to 43 CFR 3165.4 DEPLIES OF COMPLIANCE WILL SUBJECT TO COMPLIANCE WILL "GENERAL REQUIREMENTS"
5. 6. 8. 9.	Distance from Proposed Location to Nearest Property or Lease 1445' Acres in Lease Distance from Proposed Location to Nearest Well, Drlg, Compl, 962' Proposed Depth 7379' Elevations (DF, FT, GR, Etc.) 6247' GR This action is suspended proposed review put Proposed Casing and Cementing Program See Operations Plan attached Authorized by: Authorized by:	Line 17. Acres Assigned to Well 320.37 S/2 To Applied for on this Lease 20. Rotary or Cable Tools Rotary 22. Approx. Date Work will Start TRUBBLE TO COMPLIANCE WISSURFER A REQUIREMENTS! 11-9-0/
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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.

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

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

Submit to Appropriate District Office

2040 South Pacheco Santa Fe, NM 87505

State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 67505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number	² Pool Code	³ Pool Name	
30-045 30908	72319/71599	Blanco MesaVerde/Basin Dakot	a
⁴ Property Code	* Well Number		
	SUN	IRAY J	1B
7572 YOGRID No.	* O ₁	perator Name	* Elevation
	BURLINGTON RESOL	IRCES OIL AND GAS, INC.	6247'
14538			

¹⁰ Surface Location

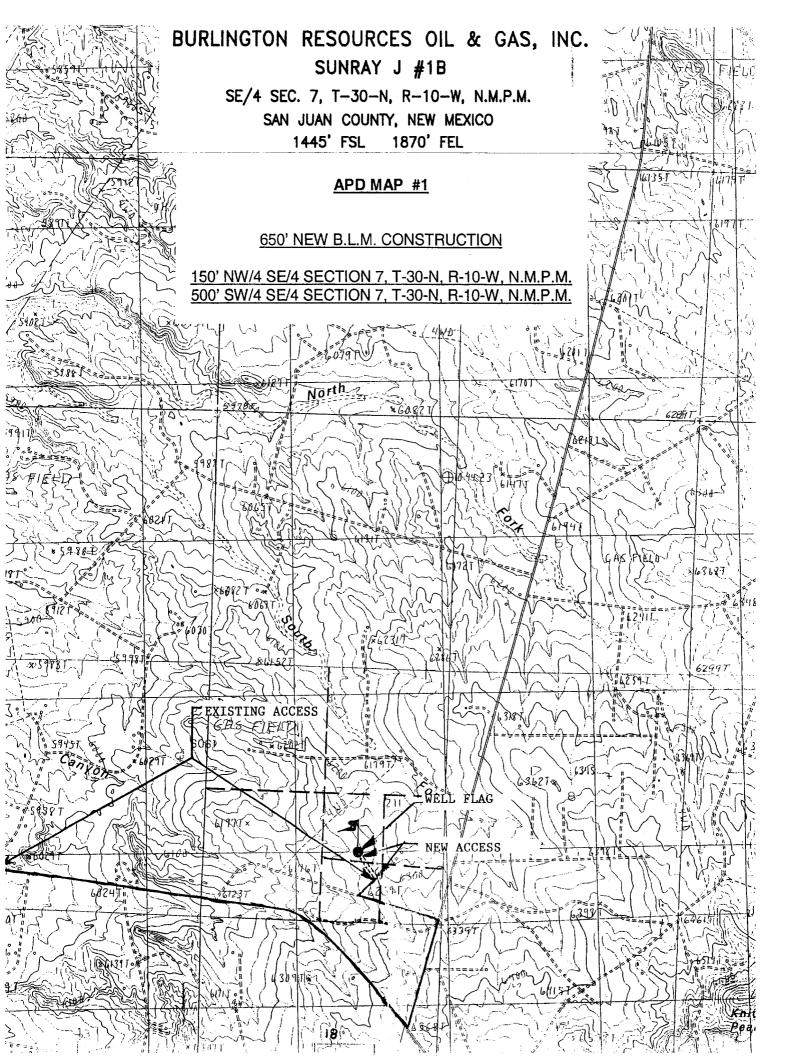
·	UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
1	.1	7	30-N	10-W		1445'	SOUTH	1870'	EAST	SAN JUAN	

¹¹ Bottom Hole Location If Different From Surface

			Born	om noie	Pocarion 1	Difference Lig			
UL or lot no.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/West line	County
MV-S/320 DK-S/320			¹³ Joint or	Infill	¹⁴ Consolidation (Code	¹⁶ Order No.		

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 8	LOT 7	LOT 6	LOT 5	17 OPERATOR CERTIFICATION I hereby certify that the information conducted herein is true and complete to the best of my knowledge and belief
m E				
: :		JAN 6		Signature Peggy Cole
LOT 9	<u></u> LOT 10	LOT 11	LOT 12 FD 3 1/4* B.L.M. BC 1967	Printed Name Regulatory Supervisor Title 11-9-01
 		7 =====================================		Date
LOT 16	LOT 15	LOT 14	01-27-54 E	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 boiled.
LAT:	36°49.3' N. G: 107°55.3' W.		1870' 2	8-1338 1 Pus
LOT 17	USA NM-03195	111,	550' LOT 20 FD 3 1/4" B.L.M.	Date of Survey Signature and Sal of Professional Surveyor 3894
 	FD 3 1/4" B.L.M. BC 1967	10T 10 N 89-	-02-31 W B.L.M. BC 0.08' (M) 1967	8894 Certificate Humber



OPERATIONS PLAN

Well Name: Sunray J #1B

Location: 1445'FSL, 1870'FEL, Sec 7, T-30-N, R-10-W

San Juan County, NM

Latitude 36^O 49.3, Longitude 107^O 55.3

Formation: Blanco Mesaverde/Basin Dakota

Elevation: 6247'GL

Formation Tops:	Top	Bottom	Contents
Surface	San Jose	1416'	
Ojo Alamo	1416'	1530 ′	aquifer
Kirtland	1530 ′	2247'	gas
Fruitland	2247'	2810'	gas
Pictured Cliffs	2810'	2956'	gas
Lewis	2956'	3561'	gas
Intermediate TD	3056'		_
Mesa Verde	3561 ′	3863 ′	gas
Chacra	3863 ′	4446′	gas
Massive Cliff House	4446 '	4607'	gas
Menefee	4607'	5081 ′	gas
Massive Point Lookout	5081'	5409'	gas
Mancos	5409 '	6341 ′	gas
Gallup	6341 ′	7084′	gas
Greenhorn	7084'	7139'	gas
Graneros	7139'	7189'	gas
Dakota	7189 '		gas
TD	7379'		

Logging Program:

Cased hole - CBL-CCL-GR - TD to surface Open hole - none Cores - none

Mud Program:

Interval	Type	Weight	<u>Vis.</u>	Fluid Loss
0- 200'	Spud	8.4-9.0	40-50	no control
200- 3056'	LSND	8.4-9.0	30-60	no control
3056- 7379'	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.	Grade
12 1/4"	0' - 200'	9 5/8"	32.3#	H-40
8 3/4"	0' - 3056'	7 "	20.0#	J-55
6 1/4"	2956' - 7379'	4 1/2"	10.5#	J-55

Tubing Program:

0' - 7379' 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 crew.
- 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/311 sx 50/50 Class G/TXI lightweight w/2.5% sodium metasilicate, 2% calcium chloride, 10# gilsonite/sx and 1/2# celloflake/sx. Tail w/90 sx 50/50 Class "G" Poz w/2% calcium chloride, 2% gel, 1/4 pps celloflake, 5 pps gilsonite, 0.1% antifoam agent (918 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 2147'. First stage: cement with 213 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: 250 sx 50/50 Class G/TXI lightweight w/2.5% sodium metasilicate, 2% calcium chloride, 10# gilsonite/sx and 1/2# celloflake/sx (918 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 1530'. Two turbolating centralizers at the base of the Ojo Alamo at 1530'. 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 441 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 (635
 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/180 sx 9.5 PPG Litecrete Blend w/0.11% dispersant, 0.5% fluid loss. Tail w/157 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 (680 cu.ft., 50% excess to cement 4 ½" 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.

- Note: To facilitate higher hydraulic stimulation completion 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.