UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

1a. ∕	Type of Work DRILL	5. Lease Number NM-031/95
,		Unit Reporting Number
1b.	Type of Well AUG 2001	6. If Indian, All. or Tribe
2.	Operator BURLINGTON RESOURCES Oil & Gas Company DIST. 3	Unit Agreement Name
3.	Address & Phone No. of Operator	8. Farm or Lease Name
	PO Box 4289, Farmington, NM 8749	Sunray E Com
	(505) 326-9700	9. Well Number #6M
4.	Location of Well	10. Field, Pool, Wildcat
	1170'FSL, 1855'FEL	Blanco MV/Basin DK 11. Sec., Twn, Rge, Mer. (NMPM)
	Latitude 36° 49.3, Longitude 107° 51.0	Osec.11, T-30-N, R-10-W API# 30-045- 30 / 2 \$
14.	Distance in Miles from Nearest Town	12. County 13. State
	12 miles from int. Hwy 550 & Hwy 173 in Aztec,	
15.	Distance from Proposed Location to Nearest Property or Lease I	Line
16.	Acres in Lease	17. Acres Assigned to Well
16.	*	17. Acres Assigned to Well MV: S/311.78
16.	*	
	Distance from Proposed Location to Nearest Well, Drlg, Compl,	MV: S/311.78 DK: E/314.74
18.	Distance from Proposed Location to Nearest Well, Drlg, Compl, 1093' Proposed Depth procedural review proposed to At CSS 2288 9	MV: S/311.78 DK: E/314.74
18.	Distance from Proposed Location to Nearest Well, Drlg, Compl, 1093'	MV: S/311.78 DK: E/314.74 or Applied for on this Lease
18. 19.	Distance from Proposed Location to Nearest Well, Drlg, Compl, 1093' Proposed Depth procedural review parsuant to 43 CFR 3185.3	MV: S/311.78 DK: E/314.74 or Applied for on this Lease 20. Rotary or Cable Tools
18. 19.	Distance from Proposed Location to Nearest Well, Drlg, Compl, 1093' Proposed Depth procedural review pursuant to 43 CFR 3185.3 and appeal pursuant to 43 CFR 3185.4. Elevations (DF, FT, GR, Etc.) 6651' GR	MV: S/311.78 DK: E/314.74 or Applied for on this Lease 20. Rotary or Cable Tools Rotary 22. Approx. Date Work will Start
19. 21.	Distance from Proposed Location to Nearest Well, Drlg, Compl, 1093' Proposed Depth procedural review pursuant to 43 CFR 3185.3 and appeal pursuant to 43 CFR 3185.4. Elevations (DF, FT, GR, Etc.)	MV: S/311.78 DK: E/314.74 or Applied for on this Lease 20. Rotary or Cable Tools Rotary
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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 2040 South Pacheco Santa Fe, NM 87505

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

DISTRICT IV

2040 South Pacheco, Santa Fe, NM 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code			
30-045- 30728	72319/71599	72319/71599 Blanco Mesaverde/Basin Dakota		
Property Code	^a F	^a Property Name		
7571	SI	UNRAY H COM	6M	
OGRID No.	Operator Name		Elevation	
14538	BURLINGTON RES	SOURCES OIL & GAS, INC.	6651'_	

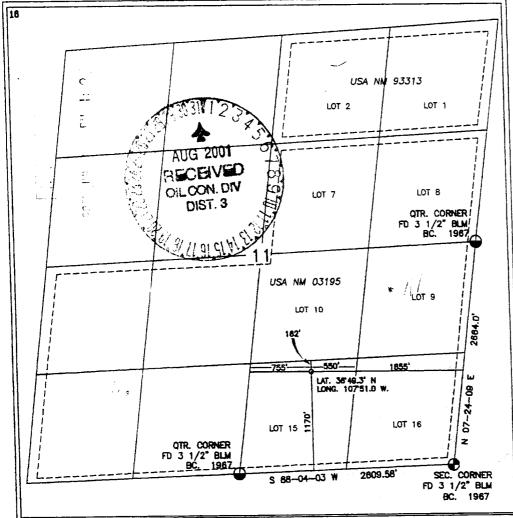
10 Surface Location

UL or lot no.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/West line	County
0	11	30-N	10-W		1170	SOUTH	1855	EAST	SAN JUAN

11 Bottom Hole Location If Different From Surface

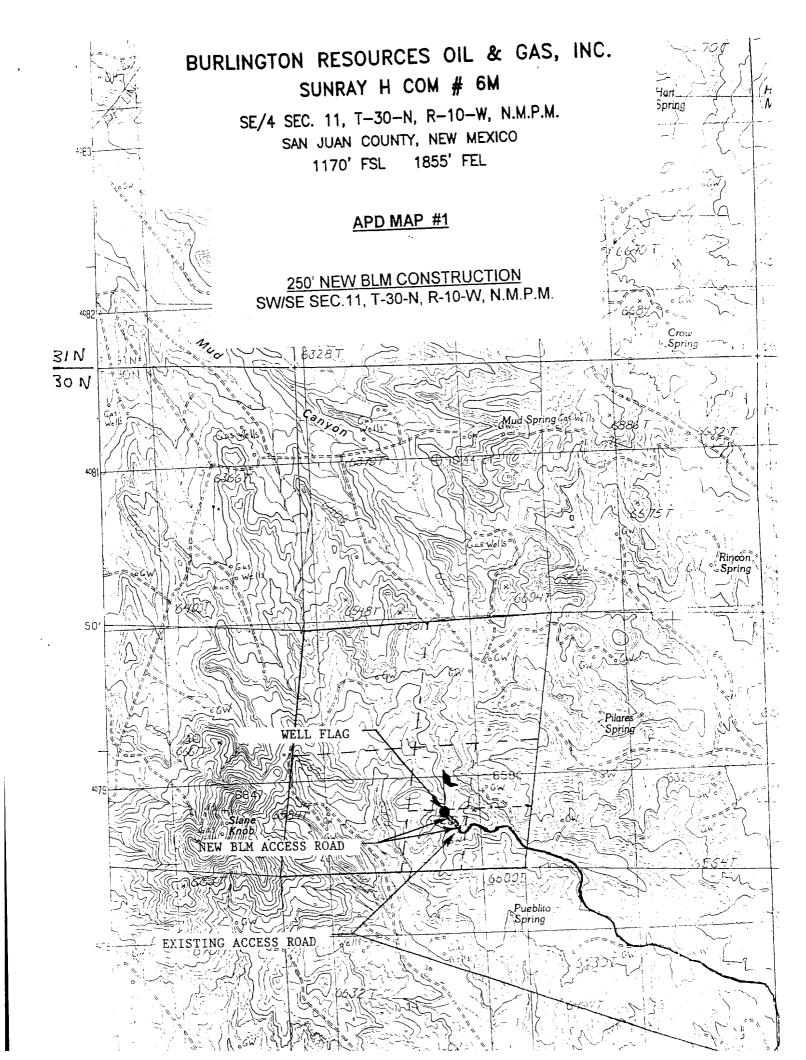
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Vest line	County
22 Dedicated Acres			¹⁹ Joint or	Infill	¹⁴ Consolidation (Code	"Order No.		
MV: S/311 DK: E/314									

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



OPERATOR CERTIFICATION Peggy Cole Printed Name Regulatory Supervisor Date

SURVEYOR CERTIFICATION 8894 Certificate Nu



OPERATIONS PLAN

Well Name: Sunray H Com #6M

Location: 1170'FSL, 1855'FEL, Sec 11, T-30-N, R-10-W

San Juan County, NM

Latitude 36° 49.3, Longitude 107° 51.0

Formation: Blanco Mesa Verde/Basin Dakota

Elevation: 6651'GR

Formation Tops:	<u>Top</u>	Bottom	Contents
Surface	San Jose	1983'	
Ojo Alamo	1983'	2133 ′	aquifer
Kirtland	2133 '	2773 ′	gas
Fruitland	2773'	3313'	gas
Pictured Cliffs	3313'	3413'	gas
Lewis	3413'	4038'	gas
Intermediate TD	3513'		
Mesa Verde	4038′	4348′	gas
Chacra	4348′	4923 ′	gas
Massive Cliff House	4923'	5123'	gas
Menefee	5123'	5538 ′	gas
Massive Point Lookout	5538'	5903'	gas
Mancos	5903 ′	6828 ′	gas
Gallup	6828 '	7568 ′	gas
Greenhorn	7568'	7623'	gas
Graneros	7623'	7670'	gas
Dakota	7670 ′		gas
TD	7900'		

Logging Program:

Open hole - none

Cased hole - TMD/L, GR/CBL - TD to surface

Cores - none

Mud Program:

_						
	Inter	rval	Type	Weight	Vis.	Fluid Loss
	0-	200'	Spud	8.4-9.0	40-50	no control
	200-	3513 ′	LSND	8.4-9.0	30-60	no control
	3513-	7900'	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	<u>Csg.Size</u>	<u>Wt.</u>	Grade
12 1/4"	0' - 200'	9 5/8"	32.3#	WC-50
B 3/4"	0' - 3513'	7"	20.0#	J-55
6 1/4"	3413' - 7900'	4 1/2"	10.5#	J-5 5

Tubing Program:

0' - 7900'_ 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 "H" cement with 1/4# flocele/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/365 sx 50/50 Class G/TXI lightweight w/2.5% sodium metasilicate, 2% calcium chloride, 10# gilsonite/sx and 1/2# flocele/sx. Tail w/90 sx 50/50 Class "G" Poz w/2% calcium chloride, 2% gel, 1/4 pps flocele, 5 pps gilsonite (1057 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 2673'. First stage: cement with 253 sx 50/50 Class "G" Poz w/2% calcium chloride, 2% gel, 1/4 pps flocele, 5 pps gilsonite. Second stage: 312 sx 50/50 Class G/TXI lightweight w/2.5% sodium metasilicate, 2% calcium chloride, 10# gilsonite/sx and 1/2# flocele/sx (1057 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 2133'. Two turbolating centralizers at the base of the Ojo Alamo at 2133'. 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 448 sx 50/50 Class "G" Poz with 5% gel, 0.25# flocele/sx, 5# gilsonite/sx, 0.1% retardant and 0.25% fluid loss additive (645 cu.ft.), 40% excess to cement 4 1/2" x 7" overlap). WOC a minimum of 18 hrs prior to completing.

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 shoe joint.

te: 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. Note: 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.

Additional Information:

- The Dakota and Mesa Verde formations will be completed and commingled.
- No abnormal temperatures or hazards are anticipated.
- Anticipated pore pressures are as follows:

Fruitland Coal 300 psi Pictured Cliffs 600 psi Mesa Verde 700 psi Pictureu CIII Mesa Verde 700 psi 2500 psi

- Sufficient LCM will be added to the mud system to maintain well control, if lost circulation is encountered.
- The south half of Section 11 is dedicated to the Mesaverde and the east half of Section 11 is dedicated to the Dakota in this well.

This gas is dedicated.

Mile Walinsky

Bate

Date

Drilling Engineer