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

а.	Type of Work DRILL	A TIPION	5 Lease Number SF-07838 Unit Reporting N	86-A
b.	Type of Well GAS	SEP 2006	6. If Indian, All. or	omon alM
2.	Operator BURLINGTON RESCURCES Oil & Ga	Componi I P	7. Unit Agreement	Name
3.	Address & Phone No. of Oper	ator	8. Farm or Lease N Sunray (	
	(505) 326-9700		9. Well Number #2B	
<b>4</b> .	Location of Well Surf - Unit D (NWNW), BH - Unit H (SENE), 1560' FR	NL & 710' FEL	10. Field, Pool, Wi Basin Dakota ,	Blanco MV
	Surf - Latitude 36 <sup>0</sup> 5 Longitude 107 <sup>0</sup>	3.3540' Lat 46.5162'W L	11. Sec., Twn, Rge \$\footnote{\psi} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	o, Mer. (NMPM) 2, T31N, R09W T31N, R09W
14.	Distance in Miles from Neares	t Town	12. County San Juan	13. State
15.	Distance from Proposed Local Surf - 585', BH - 710		ase Line	
16.	Acres in Lease		17. Acres Assigne DK & MV - 314	d to Well 1.96 E/2 SとC }
18.	Distance from Proposed Local Twinned with the Gren		npl, or Applied for on this Le	ase
19.	Proposed Depth 7671'		20. Rotary or Cabl Rotary	e Tools
21.	Elevations (DF, FT, GR, Etc.) 6247' GL		22. Approx. Date	Work will Start
23.	Proposed Casing and Cement See Operations Plan			
24.	Authorized by: Fll Sr. Regul	atory Specialist	Date $\frac{3//}{}$	8 /06
PERM	IT NO.	APPRO	/AL DATE	
APPR	OVED BY MAKE	CO TITLE A	FM DAT	e <i>9/14/1</i> 5/

Archaeological Report attached

Threatened and Endangered Species Report attached

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.



MOLD CIU rundivectional Survey

ей вих 1:ны, новоз, NM 88241-1980

District III

State Of New Mexico

Energy, Minerals & Natural Resources Department

Form C-1 Revised February 21, 199 Instructions on pa

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

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

1000 Rio Brazos Rd., Aztec, NM 87410 District IV 20 Box 2088, Santa Fe, NM 67504-2068

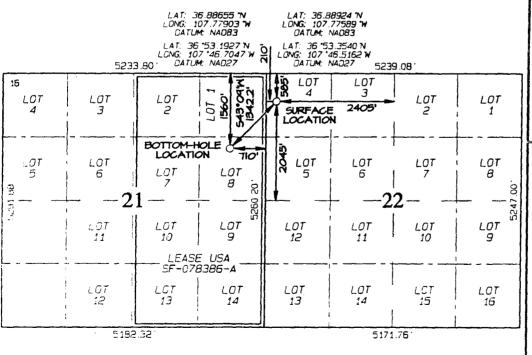
District II 86 Drawer DD. Artesia, NM 88211-0719

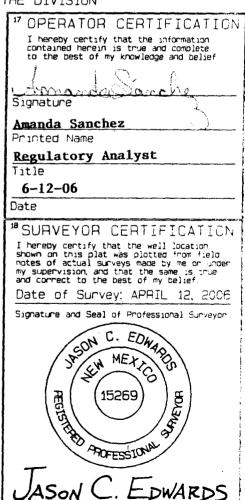
AMENDED REPORT

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

30-045- 33908 72319/715				Blanco Mesave	³Pool Name averde/ Basin Dakota					
'Frobenty Cade <b>7569</b>				'Property Name SUNRAY G				*Well Number 28		
14538 BURLINGTON R					'Operator RESOURCES (	· · · · · · ·	MPANY, LP		-	levation 6247
					<sup>10</sup> Surface	Location				
UL or lot no.	Section	Township	Fiange	Lot Idn	Feet from the	North/South line	Feet from the	East/Mes	t lane	County
D	55	31N	9W	4	585	NORTH	210	210 WEST SAN JU		SAN JUAN
<sup>11</sup> Bottom Hole L					ocation I	f Different	From Surface			<u> </u>
Ut or lot no.	Sect ion	Township	Range	Lot Ion	Feet from the	North/South line	Feet from the	East/Wes	tine	County
Н	21	31N	9W	8	1560	NORTH	710	EAS	ST ·	SAN JUAN
* P2 MV/DK 314.960				<sup>19</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Onder No.	<u> </u>		:	

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





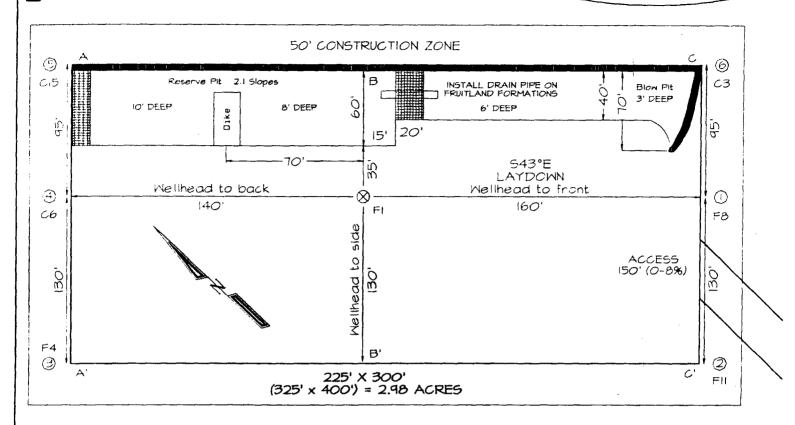
Certificate Number

15269

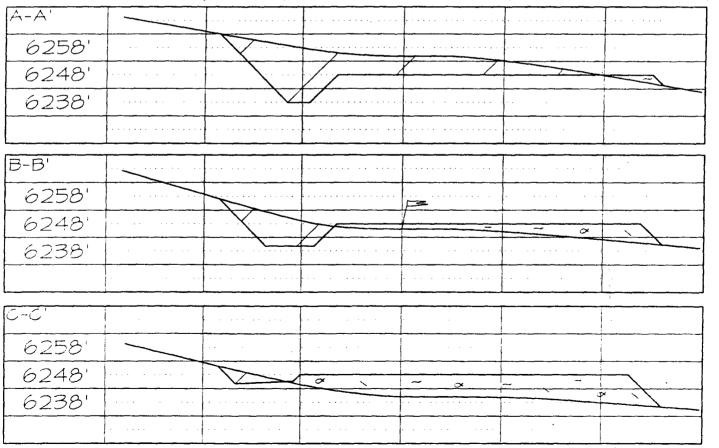
Submit 3 Copies To Appropriate I	District	State of New	Mexico		Form C-103
Office <u>District I</u>	Ene	rgy, Minerals and N	atural Resources		May 27, 2004
1625 N. French Dr., Hobbs, NM		-8,,		WELL API NO.	23900
District II 1301 W. Grand Ave., Artesia, NN	4 8 8 2 1 A A A A A A A A A A A A A A A A A A	L CONSERVATI	ON DIVISION	5 Indicate Transmet	30-045- 32 108
District III	1 88210 OH	1220 South St. F		5. Indicate Type of L	ease TEE X
1000 Rio Brazos Rd., Aztec, NM	87410	Santa Fe, NM		6. State Oil & Gas Le	
District IV		Santa I C, IVIV	67303		110
1220 S. St. Francis Dr., Santa Fe,		TRODUC ON WELL			ISF-078386-A
(DO NOT USE THIS FORM FOR PRO		EPORTS ON WELLS r to deepen or plug i		7. Lease Name or Uni	t Agreement Name
DIFFERENT RESERVOIR. USE "AF					Sunray G
PROPOSALS.)					
1. Type of Well: Oil Well Gas We	II X Other			8. Well Number	2B
2. Name of Operator	TI A Other			9. OGRID Number	26
•	N RESOURCES OF	L & GAS COMPANY	LP	7. OGRID Number	14538
3. Address of Operator				10. Pool name or Wile	
3401 E. 30 4. Well Location	TH STREET, FAR	MINGTON, NM 8740	2	Blanco Mes	averde / Basin Dakota
Unit Letter D	: 585' <b>f</b> e	eet from the Nor	th line and	210' feet from	the West line
Section 22		Township 31N	Rng 9W	NMPM	County San Juan
	11. Elevation (S	Show whether DR, RK			
Pit or Below-grade Tank Application	or Closure	6518	GL		
		استا 100 Distance from near	et fresh weter well	<1000 Distance fro	m nearest surface water
Pit Liner Thickness:	12 mil	Below-Grade Tank:	Volume	bbls; Construction	
			te Nature of Not	ice, Report or Oth	
	OF INTENTIO			SUBSEQUENT	
PERFORM REMEDIAL WORK TEMPORARILY ABANDON	CHANGE	ID ABANDON	REMEDIA	L WORK CE DRILLING OPNS.	ALTERING CASING P AND A
		. 1 127110			
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PULL OR ALTER CASING OTHER:	MULTIPL		CASING/C	EMENT JOB	
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#### SUNRAY G #2B, 585' FNL & 210' FWL SECTION 22, T31N, R9W, NMPM, SAN JUAN COUNTY, NM GROUND ELEVATION: 6247' DATE: APRIL 12, 2006

LATITUDE: 36.88924° N LONGITUDE: 107.77589° W



Reserve Pit Dike: to be 8° above Deep side (overflow - 3° wide and 1° above shallow side). Blow Pit: overflow pipe halfway between top and bottom and to extend over plastic liner and into blow pit.



Note: Contractor should call One-Call for location of any marked or unmarked puried pipelines or cables on well pad and/or access road at least two (2) working days prior to construction

#### **SUNRAY G 2B OPERATIONS PLAN**

Well Name:

SUNRAY G 2B

Objective:

Blanco Mesa Verde/Basin Dakota

Location:

San Juan NM

Elevation:

6247'

Surface Coordinates/Footages

R - 9 W Sec.: 22

585' FNL

210' FWL

Latitude:

36° 53.3540' N Longitute: 107° 46.5162' W **Bottom Hole Coordinates/Footages** T-31 N R-9 W Sec.: 21

710' FEL

1560' FNL

Latitude: 36° 53.1927' N

Longitute: 107° 46.7047' W

<u>Formation</u>	Top (TMD)	Top (TVD)	<b>Contents</b>
San Jose	0	0	
Ojo Alamo	2387'	2273'	aquifer
Kirtland	2548'	2421'	gas
Fruitland	2891'	2738'	gas
Pictured Cliffs	3290'	3106'	gas
Lewis	3477'	3279'	gas
Huerfanito Bentonite	4046'	3807'	gas
Chacra	4426'	4178'	gas
Upper Cliff House	4867'	4619'	gas
Massive Cliff House	5153'	4905'	gas
Menefee	5220'	4972'	gas
Massive Point Lookout	5563'	5315'	gas
Mancos Shale	5946'	5698'	gas
Upper Gallup	6676'	6428'	gas
Greenhorn	7606'	7358'	gas
Graneros	7654'	7406'	gas
Two Wells	7710'	7462'	gas
Paguate	7785'	7537'	gas
Main Body	7829'	7581'	gas
Oak Canyon	7909'	7661'	gas
Total Depth:	7919'	7671'	gas

Logging Program:

Cased Hole:

CBL-GR

Open Hole:

None

Mud Program:	Interval (TMD) 0' - 320'	<u>Type</u> Spud	Weight (ppg) 8.4-9.0	<u>Vis. (s/qt)</u> 40-50	Fluid Loss (cc/30min) No control
	320' - 4626'	Non-dispersed	8.4-9.0	30-60	Less than 8
	4626' - 7919'	Air/Air Mist/Nitrogen	n/a	n/a	n/a
Casing program:	Interval (TMD)	Hole Size	Casing Size	<u>Weight</u>	<u>Grade</u>
	0' - 320'	12 1/4"	9 5/8"	32.3#	H-40
	320' - 4626'	8 3/4"	7"	23.0#	L-80
	4626' - 7919'	6 1/4"	4 1/2"	11.6#	L-80
Tubing program:	Interval (TMD)	Hole Size	Casing Size	Weight	<u>Grade</u>
	0' - 7919'	Cased	2 3/8"	4.7#	J-55 '

#### Wellhead Equipment

9 5/8" x 7" X 4 1/2" x 2 3/8" - 11" (2000 psi) wellhead assembly

<u>Drilling:</u> Saw tooth guide shoe on bottom. Bowspring centralizers will be run in accordance with Onshore Order #2. Surface

Drill to surface casing point of 320' and set 9.625" casing.

#### Intermediate

Mud drill to kick off point of 400'. At this point the well will be directionally drilled by building 3 degrees per 100' with an azimuth of 223.23 degrees. The end of the build will be at a TVD of 1135', a TMD of 1154', a reach of 147', and an inclination of 22.63 degrees. This angle and azimuth will be held to a TVD of 3643', a TMD of 3872', and a reach of 1193'. At this point the well will be drilled with a drop of 3 degrees per 100'. The end of the drop will be at a TVD of 4378', a TMD of 4626', a reach of 1340', and an angle of 0.0 degrees. 7" casing will be set at this point.

#### **Production**

From the shoe of the intermediate string, the well will be drilled vertically with an air hammer to a TVD of 7671' (TMD of 7919'). 4.5" casing will be set at this point.

#### Cementing

9.625" surface casing conventionally drilled: **200%** excess cement to bring cement to surface.

Run 301 cu.ft. (235 sks) Type III cement with 3% CaCl2 and 1/4 pps celloflake (1.28 sks/ cu.ft.). Wait on cement appropriate time until cement achieves 250 psi compressive strength at 60° F prior to nipple up of BOPE. Wait on cement for 8 hrs for conventionally set holes before pressure testing or drilling out from under surface.

7" intermediate casing: 50% excess cement to bring cement to surface.

Lead with 919 cu.ft. (431 sks) Premium Lite w/ 3% CaCl2, 0.25 pps Cello-Flake, 5 pps LCM-1, 0.4% FL-52 and 0.4% SMS (2.13 sks/ft3). Tail with 124 ft3 (90 sks) Type III cmt. w/ 1% CaCl2, 0.25 pps Cello-Flake and 0.2% FL-52 (1.38).

sks/ft3). If cement does not circulate to surface, a CBL or a temperature survey will be run to determine TOC.

4.5" production casing: **30%** excess cement to achieve 100' overlap with intermediate casing. Run 451 cu.ft. (228 sks) Premium Lite HS FM + 0.25pps Cello-Flake, 0.3% CD-32, 6.25pps LCM-1, 1% FL-52 (1.98 sks/ft3.)

#### **BOP and Tests**

Surface to Total Depth - 11", 2000 psi double gate BOP stack (Reference Figure #1).

Surface to Total Depth - choke manifold (Reference Figure #2).

Prior to drilling out surface casing, test BOPE and casing to 600 psi for 30 minutes.

Pipe rams will be actuated at least once each day and blind rams will be actuated once each trip to test proper functioning. A Kelly cock valve and drill string safety valves to fit each drill string will be maintained and available on the rig floor.

BOPE tests will be performed using an appropriately sized test plug and test pump and will be recorded using calibrated test gauges and a properly calibrated strip or chart recorder. The test will be recorded in the driller's log and will include a low pressure test requirement of 250 psig held for five minutes and a high pressure test requirement held for ten minutes as described in Onshore Order No. 2 or otherwise noted in the APD. A successful BOPE test using a test plug is considered when no pressure drop occurs over the duration of the test. Test gauges and recorders must be of the proper range and resolution commensurate with the authorized test pressure. Where the intermediate casing strings are used, only one BOPE test will be necessary contingent upon the test being conducted to the highest approved test pressure to which BOPE will be exposed. Casing pressure tests must be held for 30 minutes with no more than 10 percent pressure drop during the duration of the test.

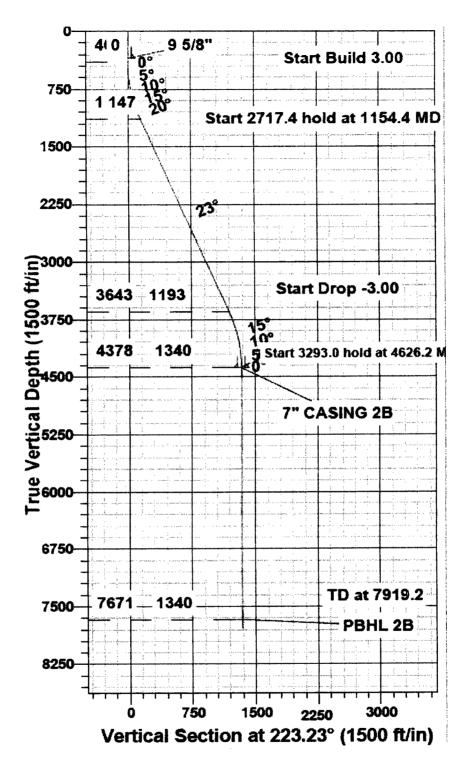
#### **Additional Information:**

- This gas is dedicated to the West half of Section 1.
- New casing will be utilized.
- Pipe movement (reciprocation) will be done if hole conditions permit.
- · No abnormal pressure zones are expected.
- BHP is expected to be 2000 psi.

**Drilling Engineer** 

5/15/66

**Date** 



Plot # 1: SUNRAY G 2B



Project: Blanco Mesaverde/ Basin Dakota

Site: San Juan County, NM Well: Sunray G 2B

Wellbore: Wellbore #1
Plan: Plan #1 (Sunray G 2B/Wellbore #1)



#### **SECTION DETAILS** MD Inc Azi **TVD** +N/-S +E/-W DLeg **TFace VSec** Target 0.0 0.00 0.00 0.0 0.00 0.0 0.0 0.00 0.0 400.0 0.00 0.00 400.0 0.0 0.0 0.00 0.00 0.0 22.63 223.23 1154.4 -107.2 -100.7 1134.9 3.00 223.23 147.1 3871.8 22.63 223.23 3643.1 -869.1 -817.0 0.00 0.00 1192.8 4626.2 0.00 0.00 4378.0 -976.2 -917.7 3.00 1339.8 7" CASING 2B 180.00 7919.2 0.00 0.00 7671.0 -976.2 -917.7 0.00 1339.8 0.00 PBHL 2B WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG) +N/-S +E/-W Northing Longitude Name Latitude Shape Easting 7" CASING 2B 4378.0 -976.2 -917.7 2141972.05 516062.25 36° 53' 11.580 N 107° 46' 42.276 W **Point** PBHL 2B 7671.0 -976.2 -917.7 2141972.05 516062.25 36° 53' 11.580 N 107° 46' 42.276 W Circle (Radius: 100.0) WELL DETAILS: Sunray G 2B PROJECT DETAILS: Blanco Mesaverde/ Basin Dakota **Ground Level:** Geodetic System: US State Plane 1927 (Exact solution) **Northing** Latittude **Easting** Longitude Datum: NAD 1927 (NADCON CONUS) 2142948.26 516979.94 36° 53' 21.228 N 107° 46' 30.972 W Ellipsoid: Clarke 1866 Zone: New Mexico West 3003 G **Azimuths to Grid North** True North: -0.03° System Datum: Mean Sea Level Magnetic North: 10.51° Magnetic Field 450 Start Build 3.00 Strength: 51323.1nT Dip Angle: 63.74° 750 Date: 2006/08/07 1 147 Model: BGGM2005 300 Start 2717.4 hold at 1154.4 MD 1500 150 2250 23 South(-)/North(+) (300 ft/in) ₹ 2000 Start Drop -3.00 3643 1193 Vertical Depth (1500-**186** iñº 5 Start 3293.0 hold at 4626.2 № 4378 1340 7" CASING 2B -600 26000 **-750** 380 6750 -900 7671 Sunray G 28/Pian #1 TD at 7919.2 7671 ... 1340 7500-7" CASING 2B PBHL 2B -1050 PBHL 2B 8250 -1200 -1050 -900 -750 -600 -450 -300 -150 0 3000 750 1500 2250 West(-)/East(+) (300 ft/in) Vertical Section at 223.23° (1500 ft/in)

# BURLINGTON RESOURCES

## 2

### Completton/Morkover Rig BOP Configuration 2,000 psi System

BURLINGTON RESOURCES

Drilling Rig Choke Menifold Configuration 2000 pei System

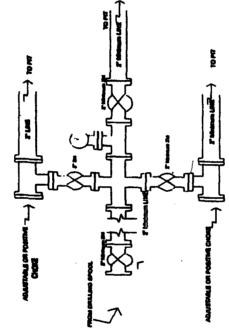
**Burilngton Resources** 

Drilling Rig 2000 pei System

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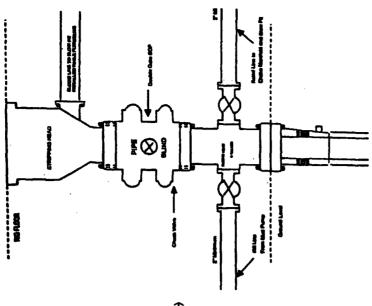
Choke menitoid isotalisation from Burtaca Casting Point to Total Dapth. 2,000psi working preseura equipment with two chokes.

Figure #3

4-20-01

Figure #1

**≍** 



Minimum BOP installation for all Completion/Workover Operations. 7-1/16" bore, 2000 pel minimum working preseure double gate BOP to be equipped with blind and pipe rams. A stripping head to be installed on the top of the BOP. All BOP equipment is 2000 pel working preseure or greater excluding 500 pel stripping head.

Figure #2

4-20-01