UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

		9 29 9 54	
a.	Type of Work	5. Lease Number	
	DRILL	CENSE 078204	
	、 かずか 切入的	Unit Reporting N	umber
_	Time of Mall	. Air Garrage and an T	
b.	Type of Well GAS	6. If Indian, All. or T	ribe
	GAS		
<u>. </u>	Operator	7. Unit Agreement I	Name
•		om Agroomon	
	BURLINGTON RESOURCES Oil & Gas Company		
	Address & Phone No. of Operator	8. Farm or Lease No	
, .	PO Box 4289, Farmington, NM 87499	Sunray D	arric
	10 Box 4209, raimingcon, NA 07499	9. Well Number	
	(505) 326-9700	o. Well Halliber	
	(000)	1N	
Į.	Location of Well	10. Field, Pool, Wild	lcat
•	660'FSL, 1995' FWL	Blanco MV/Basi	
		11. Sec., Twn, Rge,	Mer. (NMPM)
Lati	tude 36° 47.5562'N, Longitude 107° 53.4888'W	N Sec 21. T-30-N	. R-10-W
		API # 30-045- 33	110
14.	Distance in Miles from Nearest Town		13. State
14.	Aztec- 7 miles	12. County San Juan	NM
	H2CCC / MITTCO	ban baan	1411
15.	Distance from Proposed Location to Nearest Property or Leas	e Line	
	660'		
16.	Acres in Lease	17. Acres Assigned	
		318.88 W	/2
18.	Distance from Proposed Location to Nearest Well, Drig, Comp	I, or Applied for on this L	ease
	800' FC	, ,,	
19.	Proposed Depth	20. Rotary or Cable	Tools
	7534 ′	Rotary	
21.	Elevations (DF, FT, GR, Etc.)	22. Approx. Date W	ork will Start
	6380 Gr, 6392'		
23.	Proposed Casing and Cementing Program	<u>; </u>	
ZJ.	See Operations Plan attached & JUL 1990		
	bee operations than accurated the second		
		NI /	
24.	Authorized by: tances John	~ [G/ 7-21-	05
	Regulatory Specialist	Date	
	6.8,1	مسلسلام	
	HT NO		
PERM	IIT NO. APPROVAL	DATE	
	2/ () 1/.	V Cm	F 7/19/
	OVED BY Magne wowners TITLE Setra	DATEDAT	E 7/19/
	2/ () 1/.	V Cm	E 7/19/
APPR Archa	OVED BY Wayn wow TITLE Se frag	V Cm	E 7/19/
APPR Archa Threa	OVED BY Hayse werend TITLE fetra)	V Cm	E 7/19/

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

MMOCD

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

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

Form C-102 Revised February 21, 1994 Instructions on back Submit to Appropriate District Office

OIL CONSERVATION DIVISION
PO Box 2088 23 20 3
Santa Fe. NM 87504-2088

3 54

State Lease - 4 Copies Fee Lease - 3 Copies

RECEIVED
OTO FARMINGTON IN

AMENDED REPORT

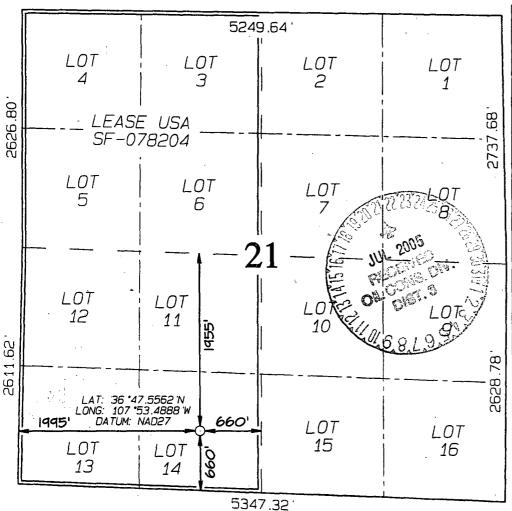
WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number	Pool Code	Pool Name	
30-045 33//	72319/71599	Blanco Mesaverde/Basin Dakota	
Property Code	*Property Name		
7566	SUNRAY D		
'OGRID No.	°O;	perator Name	*Elevation
14538	BURLINGTON RESOUR	CES OIL & GAS COMPANY, LP	6380
	10 0 (and I continue	

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
· N	21	30N	10W		660	SOUTH	1995	WEST	SAN JUAN
	<u> </u>	11 E	Bottom	Hole L	ocation I	f Different	From Surf	асе	
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					¹³ Joint or Infill	¹⁴ Consolidation Code	²⁵ Order No.		
318.88 W	/2 MV/	DK				{	i I		

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



1111	DIVIDION
	OPERATOR CERTIFICATION
	I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief
	\mathcal{A}
11	Trances Bend
5	Signature
11_	Frances Bond
F	Printed Name
	Regulatory Specialist
	itle
Π_{-}	3-29-05
110	ate
1	SURVEYOR CERTIFICATION
11	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
1	my supervision, and that the same is true and correct to the best of my belief.
╢.	Date of Survey: MARCH 7, 2005
	Signature and Seal of Professional Surveyor
	SON C. EDWARDS
	SON ME!
11	2/64 MC 15/20/
Ш	
	(元) (15269) (元)
	\iii\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	\Q\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
	15269) E
	A ESSTE
	JASTIC FRANKE
-	Contificate Number 45000
┙Ĺ	Certificate Number 15269

Submit 3 Copies To Appropriate District	State of New Mex	xico		Form C-103
Office District I	Energy, Minerals and Natural Resources			May 27, 2004
1625 N. French Dr., Hobbs, NM 88240 District II			WELL API NO.	
1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION I	DIVISION	5. Indicate Type of Lease	
District III	1220 South St. Franci	is Dr.	STATE FEE	
1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe, NM 875	05	6. State Oil & Gas Lease No.	
<u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 8750	5		SF-078204	
SUNDRY NOTICE	ES AND REPORTS ON WELLS		7. Lease Name or Unit Agreement N	ame
(DO NOT USE THIS FORM FOR PROPOSALS T DIFFERENT RESERVOIR. USE "APPLICATIO		O A	S	
PROPOSALS.)	WIGHT (FORWIG 101) FOR BOOM		Sunray D	ļ
1. Type of Well:	Oil		8. Well Number	
Oil Well Gas Well X 2. Name of Operator	Other		9. OGRID Number	
-	URCES OIL & GAS COMPANY LP		14538	
3. Address of Operator			10. Pool name or Wildcat	
4. Well Location	EET, FARMINGTON, NM 87402		Blanco Mesaverde/Basin	<u>Dakota</u>
	60 feet from the South	line and	1995 feet from the West	line
Section 24		inge 6W	NMPM County	San Juan
The state of the s	Elevation (Show whether DR, RKB, RT	, GR, etc.)	10 to	
Pit or Below-grade Tank Application	or Closure			
Pit type New Drill Depth to Groundwa	ter >100' Distance from nearest fresl	h water well	>1000' Distance from nearest surface	water >1000'
Pit Liner Thickness: na	mil Below-Grade Tank: Vo	olume	bbls; Construction Material	
12. Check A	appropriate Box to Indicate Na	ature of Not	ice, Report or Other Data	
NOTICE OF IN	TENTION TO:		SUBSEQUENT REPORT O	F:
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIA		NG CASING
TEMPORARILY ABANDON PULL OR ALTER CASING	CHANGE PLANS MULTIPLE COMPL	1	CE DRILLING OPNS. P AND A	٩ ــــا
				_
OTHER: New 1		OTHER:	ve pertinent dates, including estimated	1-4-
			the wellbore diagram of proposed complete	
or recompletion.	•			
	- -		pit. Based on Burlington's interpretation	
	-	-	in Burlington's Drilling / Workover Pit blow/flare pit will be designed to mana	
-		-	es closing these pits according to the D	•
	2, 2004 on file that the NMOCD office			
•				
•				
I hereby certify that the information abo				
grade tank has been/will be constructed or close	d according to NMOCD guidelines, a ge	neral permit X	or an (attached) alternative OCD-approved	plan .
SIGNATURE 4 rances	Boud TITLE_	Regi	ulatory Specialist DATE	04/21/2005
Type or print name France For State Use Only	es Rond E-mail address:	fbond@b	or-inc.com Telephone No. 5	505-326-9847
APPPROVED BY	TITLE	EPUTY OIL &	GAS INSPECTOR, DIST. DATE	NF 51 5002
Conditions of Approval (if any)	//			

APPPROVED BY

Conditions of Approval (if any):

OPERATIONS PLAN

<u>Well Name:</u>

SUNRAY D 1N

Location:

660' FSL & 1995' FWL, Section Sec 21 T30N R10W

San Juan County, New Mexico

Formation:

Blanco Mesaverde/Basin Dakota

Elevation:

6380' GL

Formation Tops:	Top	Bottom	<u>Contents</u>
Surface	San Jose	1589'	
Ojo Alamo	1589 '	1737 '	aquifer
Kirtland	1737 '	2737 '	gas
Fruitland Coal	2737 '	2959 '	gas
Pictured Cliffs	2959 '	3057 '	gas
Lewis	3057 '	3652 '	
Huerfanito Bentonite	3652 '		
Chacra	3922 '	4659'	gas
Massive Cliff House	4659'	4739 '	gas
Menefee	4739'	5204'	gas
Massive Point Lookout	5204 '	5574 '	gas
Mancos Shale	5574 '	6447'	
Upper Gallup	6447'	7185 '	gas
Greenhorn	7185'	7240'	gas
Graneros	7240'	7292'	gas
Two Wells	7292'	7380'	gas
Paguate	7380'	7432'	gas
Cubero	7432'	7496 '	gas
Encinal	7496'	7534 '	gas
Total Depth:	7534 '		gas

Logging Program:

Mud Logs/Coring/DST

Mud logs - none

Coring - none

DST - none

Open hole - none

Cased hole - Gamma Ray, CCL, CBL - surface to TD

Mud Program:

<u>Interval</u>	Type	<u>Weight</u>	<u>Vis.</u>	<u>Fluid Loss</u>
0 - 12:0'	Spud MUD/Air/Air Mist	8.4 - 9.0	40 - 50	no control
120 - 3157 ′	LSND	8.4 - 9.0	30 - 60	no control
3157' - 7534'	Air/Air Mist/Nitrogen	n/a	n/a	n/a

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' - 120'	9 5/8"	32.3#	H - 40
8 3/4"	0' - 3157'	7"	20/23#	J-55
6 1/4"	0' - 7534'	4 1/2"	10.5#	J-55

Tubing Program:

Depth Interval	<u>Csg.Size</u>	<u>Wt.</u>	<u>Grade</u>
0' - 7534'	2 3/8"	4.7#	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).

Completion Operations -

 $7\ 1/16$ " 2000 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 4 $\frac{1}{2}$ " x 2 3/8" x 2000 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 drill crew.
- All BOP tests & 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 -

Pre-Set Drilled - Cement with 23 sx Type I, II cement with 20% flyash mixed at 14.5 ppg, 1.61 cu ft per sack yield. (38 cu ft of slurry, bring cement to surface) Wait on cement for 24 hours for pre-set holes before pressure testing or drilling out from under surface.

Conventionally Drilled - Cement with 88 sx Type III cement with 0.25 pps Celloflake, 2% CaCl. (113 cu ft of slurry, 200% excess, bring cement to surface) Wait on cement for 8 hrs for conventionally set holes before pressure testing or drilling out from under surface. Wait on cement appropriate time until cement achieves 250 psi compressive strength at 60 degrees 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. 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 with 277 sacks Premium Lite cement with 3% calcium chloride, 0.25 pps Celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate. Tail w/90 sacks Type III cmt w/1% calcium chloride, 0.25 pps Celloflake, 0.2% fluid loss (124 cu ft 50% excess to circulate to surface). WOC minimum of 8 hours before drilling out intermediate casing. If cement does not circulate to surface, a CBL or a temperature survey will be run to determine TOC. Test casing to 1500 psi for 30 minutes.

7" intermediate casing alternative two stage -

Stage collar set 300' above the top of the Fruitland. First stage: Lead w/10 sacks Premium Lite cement with 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss. Tail w/90 Type III cmt w/1% calcium chloride, 0.25 pps Celloflake, 0.2% fluid loss. Second stage: 251 sacks Premium Lite cement with 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate (124 cu ft - 50% 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 @ 1737'. Two turbolating centralizers at the base of the Ojo Alamo 1737'. 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 -

Pump 296 sxs Premium Lite HS FM w/0.25 pps celloflake, 0.3% CD-32, 6.25 pps LCM-1, 1% fluid loss, 6% gel, 7 pps CSE (384 cu.ft., 30% excess to achieve 100' overlap in 4-1/2" x 7" annulus). WOC a minimum of 18 hrs prior to completing.

Cementing: Continued

Cement float collar stacked on top of float shoe.

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

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. The liner hanger will have a rubber packoff.

• 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 (Air/Mist Drilling):

The following equipment will be operational while air/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.
- 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 Mesa Verde and Dakota 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 2000 psi Dakota

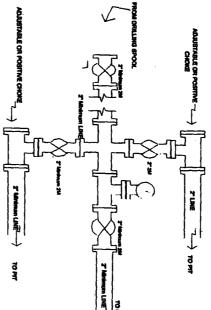
- · Sufficient LCM will be added to the mud system to maintain well control, if lost circulation is encountered below the top of the Pictured Cliffs.
- The west half of Section 21 is dedicated to the Mesa Verde and Dakota.
- This gas is dedicated.

Drilling Engineer Date

Drilling Rig
Choke Manifold Configuration
2000 psi System

Burlington Resources

2000 psi System **Drilling Rig**



ROTATING HEAD:

2 FILL-UP LINE

equipment with two chokes. Point to Total Depth. 2,000psi working pressure Choke manifold installation from Surface Casing

Figure #3

₹⊗**§**

pipe rams. A stripping head to be installed on the top of pressure or greater excluding 500 psi stripping head. the BOP. All BOP equipment is 2000 psl working pressure double gate BOP to be equipped with blind and Operations. 7-1/16" bore, 2000 psi minimum working Minimum BOP Installation for all Completion/Workover Figure #2

4-20-01

4-20-01

Figure #1