UNITED STATES

	DEPARTMENT OF THE IN BUREAU OF LAND MANA	·· =	FEB 2000
	APPLICATION FOR PERMIT TO DRILL, D	EEPEN, OR PLUG BACK	WILL CONS. [
1a.	Type of Work DRILL RECEIV 070 FARMING	Unit Reporting Ni	208
1b.	Type of Well GAS	6. If Indian, All. or 1	- ribe
2.	Operator BURLINGTON RESCURCES Oil & Gas Company	7. Unit Agreement I	Name
3.	Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Na Sunray B 9. Well Number #2B	nme
4.	Location of Well Unit M (SWSW), 1185' FSL, 660' FWL	10. Field, Pool, Wild Blanco Mesaverdo	e/ Basin Dakota
	Latitude 36° 50.2278'N Longitude 107° 50.3977'W	11. Sec., Twn, Rge, M Sec. 1, T30N, 1 API# 30-045-33	R10W
14.	Distance in Miles from Nearest Town 15 miles to Aztec, NM	12. County San Juan	13. State NM
15.	Distance from Proposed Location to Nearest Property or Lea	se Line	
16.	Acres in Lease	17. Acres Assigned W/2 256.51 MV/I	
18.	Distance from Proposed Location to Nearest Well, Drlg, Com 470' - Sunray B #5	pl, or Applied for on this Lea	Se
19.	Proposed Depth 7816'	20. Rotary or Cable Rotary	Tool
21.	Elevations (DF, FT, GR, Etc.) 6558'GL	22. Approx. Date V	Vork will Start
23.	Proposed Casing and Cementing Program See Operations Plan attached		
24.	Authorized by: Arman a Sandour Regulatory Compliance Assistant	2-9- t II Dat	

APPROVED BY

PERMIT NO.

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.

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

DAY LIVE OPERATIONS AUTHORIZED ARE SUBJECT TO SOMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

District I PO Box 1980, Hobbs, NM 88241-1980

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised February 21, 1994 Instructions on back

District II PO Drawer DD. Artesia. NM 88211-0719

OIL CONSERVATION DIVISION

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

District III 1000 Rio Brazos Rd. Aztec, NM 87410

PO Box, 2088 Santa Fe, NM \$7504-2088 3 07

AMENDED REPORT

District IV PO Box 2088, Santa Fe, NM 87504-2088

UL or lot no. Section

Township

RECEIVED WELL LOCATION AND ACREAGE DEDICATION PLAT /

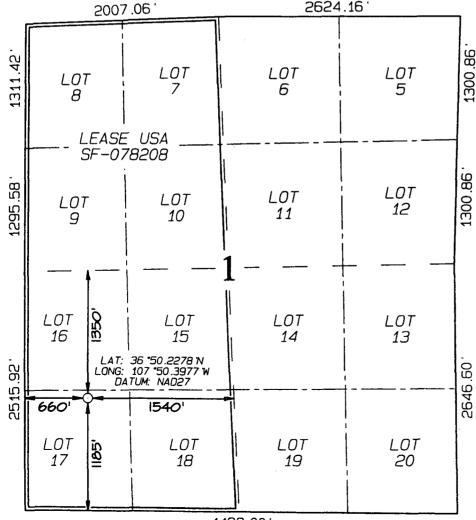
• ['API Number		³Pool Name	
	30-045-2	3588 72319/71599	Blanco Mesaverde/Basin Dakota	
	Property Code		roperty Name	"Well Number
•	7563	S	UNRAY B	28 レノ
	'OGRID No.	" Op	erator Name	*Elevation
	14538	BURLINGTON RESOURCE	CES OIL & GAS COMPANY, LP	6558 '
L		10 Sup f:	aco Location	

¹⁰ Surface Location

Feet from the North/South line

M	1	30N	10W	17	1185	SOUTH	660	WEST	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/West line	County
				Ì					
¹² Dedicated Acres	_				¹³ Joint or Infill	¹⁴ Consolidation Code	⁵⁵ Order No.		
W/2 2	56.51	ac. MV/	DK						

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 Idn

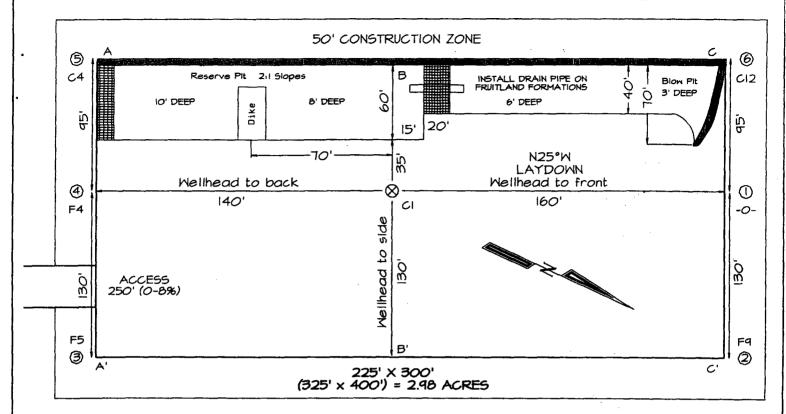
"OPERATOR CERTIFICATION
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief
Signature
Joni Clark
Printed Name
Sr. Regulatory Specialist
Title 12-13-05
Date
18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from finds
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 belief
Survey Date: NOVEMBER 7, 2005
Signature and Seal of Professional Surveyor
ON C. EDW
SECH C. EDWARDS
(15269) g
35
AND ESSIONAL SE
JASON C. EDWARDS
Certificate Number 15269

4488.00

Submit 3 Copies To Appropriate District Office	State of New Mexico	Form C-103
District !	Energy, Minerals and Natural Resourc	es May 27, 2004
1625 N. French Dr., Hobbs, NM 88240	-	WELL API NO. 30-045- 33588
District II 1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION DIVISIO	N 5. Indicate Type of Lease
District III	1220 South St. Francis Dr.	STATE FEE
1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe, NM 87505	6. State Oil & Gas Lease No.
District IV 1220 S. St. Francis Dr., Santa Fe, NM 875		NMSF-078208
	CES AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name
(DO NOT USE THIS FORM FOR PROPOSALS	S TO DRILL OR TO DEEPEN OR PLUG BACK TO A	
(DIFFERENT RESERVOIR, USE "APPLICATE PROPOSALS.)	ON FOR PERMIT" (FORM C-101) FOR SUCH	Sunray B
1. Type of Well:		8. Well Number
Oil Well Gas Well X	Other	2B
2. Name of Operator BURLINGTON RES	OURCES OIL & GAS COMPANY LP	9. OGRID Number 14538
3. Address of Operator		10. Pool name or Wildcat
	REET, FARMINGTON, NM 87402	Blanco Mesaverde/ Basin Dakota
4. Well Location Unit Letter M:	1185' feet from the South line and	1 660' feet from the West line
Section 1	Township 30N Range	10W NMPM County San Juan
11.	Elevation (Show whether DR, RKB, RT, GR, etc.) 6558'	
Pit or Below-grade Tank Application	or Closure 0538	>200
Pit type New Drill Depth to Ground	water <100' Distance from nearest fresh water well	
Pit Liner Thickness: 12	mil Below-Grade Tank: Volume	bbis; Construction Material
12 Check	Appropriate Box to Indicate Nature of	Notice, Report or Other Data
	NTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK		DIAL WORK ALTERING CASING
TEMPORARILY ABANDON	·	MENCE DRILLING OPNS. P AND A
5 1111 6 5 1 1 5 111 6		I DIOCENTE IOD
PULL OR ALTER CASING	MULTIPLE COMPL CASIN	NG/CEMENT JOB
	MULTIPLE COMPL CASIN W Drill X OTHE	
OTHER: Nev 13. Describe proposed or complete	w Drill X OTHE ted operations. (Clearly state all pertinent details, a	R:
OTHER: New 13. Describe proposed or complet of starting any proposed work	v Drill X OTHE	R:
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BURLINGTON RESOURCES OIL & GAS COMPANY, LP SUNRAY B #2B, 1185' FSL & 660' FWL SECTION 1, T30N, R10W, NMPM, SAN JUAN COUNTY, NM GROUND BLEVATION: 6558' DATE: NOVEMBER 7, 2005





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.

A-A'

6567'

6547'

B-B'

6567'

6557'

6557'

6547'

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

OPERATIONS PLAN

Well Name:

SUNRAY B 2B

Location:

1185' FSL & 660' FWL, Section Sec 01 T30N R10W

San Juan County, New Mexico

Formation:
Elevation:

Blanco Mesaverde/Basin Dakota

6558' GL

Formation Tops:	Top	Bottom	<u>Contents</u>
Surface	San Jose	1992'	
Ojo Alamo	1992'	2070'	aquifer
Kirtland	2070'	3000'	gas
Fruitland	3000'	3265 '	gas
Pictured Cliffs	3265'	3425'	gas
Lewis	3425'	3980'	
Huerfanito Bentonite	3980'		
Chacra	4303'	4980'	gas
Massive Cliff House	4980'	5097'	gas
Menefee	5097'	5455'	gas
Massive Point Lookout	5455'	58851	gas
Mancos Shale	5885'	6778 '	
Upper Gallup	6778 '	7514'	gas
Greenhorn	7514'	7560'	gas
Graneros	7560'	7617'	gas
Two Wells	7617'	7710'	gas
Paguate	7710'	7756'	gas
Cubero	7756'	7816'	gas
Encinal	7816'	7816'	gas
Total Depth:	7816'		gas

Logging Program:

Mud Logs/Coring/DST

Mud logs - none

Coring - none

DST - none

Open hole - none

Cased hole - Gamma Ray, CBL - surface to TD

Mud Program:

1nterval 0 - 120'300	<u>Type</u>	<u>Weight</u>	<u>Vis.</u>	Fluid Loss
0 - 120, 200	Spud MUD/Air/Air Mist	8.4 - 9.0	40 - 50	no control
120- 3525'	LSND	8.4 - 9.0	30 - 60	no control
3525 - 7816'	Air/Air Mist/Nitrogen	n/a	n/a	n/a

Casing Program (as listed, the equivalent, or better):

<u> Hole Size</u>	Depth Interval	Csg.Size	<u>Wt.</u>	<u>Grade</u>
12 1/4"	01 - 1200	9 5/8"	32.3#	H-40
8 3/4"	0' - 3525'	7"	20/23#	J-55
6 1/4"	0' - 7816'	4 1/2"	10.5#	J-55

Tubing Program:

Depth Interval	<u>Csg.Size</u>	<u>Wt.</u>	<u>Grade</u>
0' - 7816'	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 ½" 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.

C. HARRADEN/ February 10, 2006

BURLINGTON RESOURCES/ Sunray B #2B APD STIPULATION/CONDITION OF APPROVAL

This well is located within a 'vulnerable area'. In order to protect the integrity of the alluvium aquifer, a minimum surface csg. depth of 200' is stipulated as a condition of approval for this APD.

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 86 sx Type III cement with 0.25 pps Celloflake, 2% CaCl. 13 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 312 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/29 sacks Premium Lite cement with 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss. Tail w/90 sxs Type III cmt w/1% calcium chloride, 0.25 pps Celloflake, 0.2% fluid loss. Second stage: 283 sacks Premium Lite cement with 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate (603 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 @ 2070'. Two turbolating centralizers at the base of the Ojo Alamo @ 2070'. 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 281 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 (556 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:

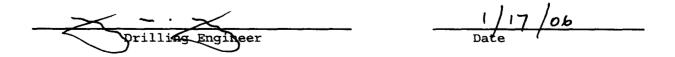
- An anchored blooie line will be utilized to discharge all cuttings and circulating medium to the blow pit a minimum of 100' from the wellhead.
- The blooie line will be equipped with an automatic igniter or pilot light.
- Compressors will be located a minimum of 100' from the wellhead in the opposite 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.

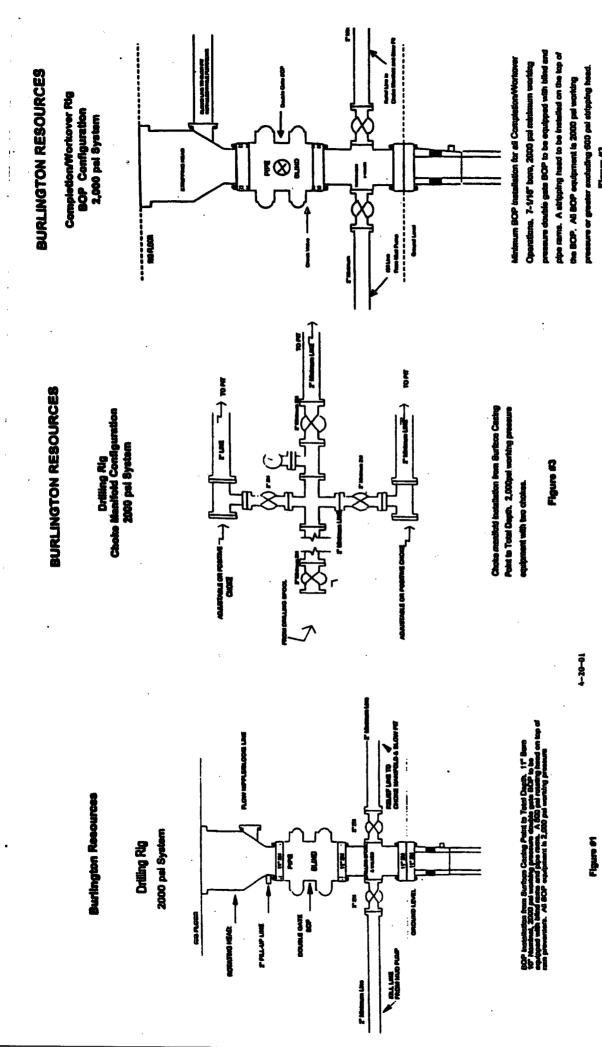
Additional Information:

- 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
Dakota 2000 psi

- 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 1 is dedicated to the Dakota formation and Mesaverde formation.
- This gas is dedicated.





10-02-4 1-20-01