UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

	APPLICATION FOR PERMIT TO DRILL, DEEP		^
1a.	Type of Work	2000 5. Lease Number	D
ıa.	DRILL	NMNM-03195	
		Unit Reporting Numb	er
		OTO FARMINGTON NO	4
1b.	Type of Well	6. If Indian, All. or Tribe	•
	GAS		
2.	Operator	7. Unit Agreement Nam	ie
	BURLINGTON		
	RESOURCES Oil & Gas Company		
3.	Address & Phone No. of Operator	8. Farm or Lease Name	
	PO Box 4289, Farmington, NM 87499	Sunray J	
	/=a=\ aaa a=aa	9. Well Number	
	(505) 326-9700	#1 M	
4.	Location of Well	10. Field, Pool, Wildcat	
٠.	Unit N (SESW), 1000' FSL, 2380' FWL	Blanco Mesaverde/	
		11. Sec., Twn, Rge, Me	r. (NMPM)
	Latitude 36 ⁰ 49.2897'N	Sec. 7, T30N, R10	
	Longitude 107° 55.4952'W	N	211
	Longitude 107° 55.4952'W Longitude 107° 55.4952'W Longitude 107° 55.4952'W	8 API# 30-045- 336	99
14.	Distance in Miles from Nearest Town	12. County	13. State
	4.4 miles to Aztec, NM	San Juan	nm
45		£	
15.	Distance from Proposed Location to Nearest Property or Lease L	.ine	
16.	Acres in Lease	17. Acres Assigned to	Well
		S2 320.37 MV/DK	
18.	Distance from Dranged Location to Marcost Wall Ddg. Compl	or Applied for an this Lages	
10.	Distance from Proposed Location to Nearest Well, Drlg, Compl, 1063' - Sunray J #1B	or Applied for on this Lease	
19.	Proposed Depth	20. Rotary or Cable Too	NI .
	7331'	Rotary	•
		,	
21.	Elevations (DF, FT, GR, Etc.)	22. Approx. Date Worl	will Start
	6204'GL		
23.	Proposed Casing and Cementing Program	-17575 COM	
	See Operations Plan attached		
24.	Authorized by: (Amama Connacult	APP mas 4 3M-/) /
24.	Regulatory Compliance Assistant 1	III Date	
	Regulatory compilance Assistants		
	b'	Marie Williams	
PERM	IT NO. APPROVAL	DATE	
A DDD	OVED BY MARINE AFR	MIO. GARATE 2	1/3/1/10
METH	OVED DI CHILLE THE THE	- 40.8.L9 DAIE 7	15/06

Archaeological Report attached
Threatened and Endangered Spe

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.

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

This action is subject to technical and procedural review pursuant to 43 CFR 3165 3 and appeal pursuant to 43 CFR 3165.4



DISTRICT 1 1625 N. French Dr., Hobbs, N.M. 88240

DISTRICT # 1301 W. Grand Ave., Artesia, N.M. 88210

DISTRICT III 1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV
1220 South St. Francis Dr., Santa Fe, NM 87505

N 89.09,09, M

2589.55' (M)

FD 3 1/4" BC 1967 BLM

FD 2 1/2" BC 1967 BLM

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION

1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-102 Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

			WELL I	LOCATIO	N AND	AC	REAGE DEDI	CATION	PLAT			
1 API	Number	. 0.1		² Pool Code				³ Pool N				
30045-		694	72;	319 / 715			anco Mesavero	ie / Basi	n Dakota			
⁴ Property Cod	de				⁵ Prope SUN	•				* Welf Number		
7572	v				3UN	KAI	· J				IM -	
OGRID No.				10. 100 100 1	*Opero	stor N	ome				[®] Elevation	
14538	V	BURLINGTON RESOURCES OIL & GAS COMPANY LP			/		6204					
					10 Surfa	ice	Location					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from th	16	North/South line	Feet from the			County	
N	7	30-N	10-W	18	1000		SOUTH	2380	WES	T	SAN JUAN	
			¹¹ Bot	tom Hole	Locatio	on I	f Different Fro	om Surfac	e			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the		North/South line	Feet from the		st line	County	
И							}				1	
¹² Dedicated Acres		19,	Joint or Infi	 	14 Consolidati	on Co	de	15 Order No.				
		ŀ										
MV/DK 3					<u> </u>							
NO ALLOW	ABLE V	MLL BE	ASSIGN	ED TO TH	IS COMPL	ETIC	ON UNTIL ALL	INTERESTS	HAVE B	EEN C	ONSOLIDATE	
		OR A I	NON-S	TANDARD	UNIT HAS	S BE	EEN APPROVED	BY THE	DIVISION			
LOT 8 38.39		LOT 7 40.50			OT 6 0.45		LOT 5 40.40	I hereby to true of bolled, on interest including right to contract interest,	certify that the ii	nformation of the best of pization either of interest in torn hale to his location such a min pooling agr	my knowledge and trowns a working in the land cation or has a pursuant to a word or working cament or a	
LOT 9 38.55 0 2 1/2" 8C 967 BLM		LOT 10 40.51	0	_	OT 11 0.46		LOT 12 40.41		Amando ture ada Sano d Nome	val	Date 3-	
(X) 0 LOT 16 2 38.71 2 29 2 28 2 28		LOT 15 40.51			OT 14 0.46		LOT 13 40.41	I hereby ca was plotted or under m correct to MARC	rtify that the w from field notes by supervision, or the best of my	of octual and that the	TIFICATION shown on this plat surveys made by me a same is true and	
LOT 17 38.87		LOT 40.9	18 -52	LONG: LAT: 36 LONG:1	66.82150° 107.92554' 3'49.2897' N 07'55.4952' OT 19 0.47	' W. 4. (N	(NAD 83) AD 27)	Signature	1483		S. S	

	District	State of New Me	exico			Form C-103
Office District I		nergy, Minerals and Natur	al Resources			May 27, 2004
1625 N. French Dr., Hobbs, NM District II	88240			WELL API NO.	30-045- 3	3694 1
1301 W. Grand Ave., Artesia, N	M 88210 O	IL CONSERVATION	DIVISION	5. Indicate Type o		_
District III		1220 South St. France		STATE	FEE	
1000 Rio Brazos Rd., Aztec, NM	1 87410	Santa Fe, NM 875	505	6. State Oil & Gas	s Lease No.	
District IV 1220 S. St. Francis Dr., Santa Fe	e, NM 87505				NMNM-03195	
		REPORTS ON WELLS	· mo. i	7. Lease Name or I	Unit Agreement Nan	ne
(DO NOT USE THIS FORM FOR PR DIFFERENT RESERVOIR. USE "A			ATO A		Sunray J	
PROPOSALS.)		(
1. Type of Well:	ell X Other			8. Well Number	134	
Oil Well Gas W 2. Name of Operator	ell X Other			9. OGRID Number	1M	
BURLINGTO	ON RESOURCES	OIL & GAS COMPANY LP		2. OGIGE Number	14538	
3. Address of Operator	OTHOTBEET EA	DATNICTONI NILI 07402		10. Pool name or V		1
4. Well Location	UIH SIKEEI, FA	RMINGTON, NM 87402	· · · · · · · · · · · · · · · · · · ·	Blanco	Mesaverde/ Basin Da	akota
Unit Letter N	:1000	feet from the South	line and	2380 feet fro		_line
Section 7	11 Elevation	Township 30N (Show whether DR, RKB, RT	Rng 10W	NMPM	County	San Juan
	11. Elevation	(Show whether DK, KKB, KI 6204'	i, UK, eic.)			
Pit or Below-grade Tank Application	or Closu	ıre				1200
Pit type New Drill Depth t	o Groundwater	>100' Distance from nearest fre	sh water well	<1000' Distance	from nearest surface wa	ter <u>€1000</u>
Pit Liner Thickness:	12 mil	Below-Grade Tank: \	/olume	bbis; Construc	ction Material	
	E OF INTENTI	riate Box to Indicate N ON TO: AND ABANDON GE PLANS	REMEDIA	SUBSEQUEN	T REPORT OF	: G CASING
PULL OR ALTER CASING	MULTII	PLE COMPL		EMENT JOB	B. P AND A	
	MULTII				S. H PANDA	
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BURLINGTON RESOURCES OIL & GAS COMPANY LP SUNRAY J No. 1M, 1000 FSL 2380 FWL

LONG.

NAD 83 = 36.82150° N = 107.92554°

SECTION 7, T-30-N, R-10-W, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO

GROUND ELEVATION: 6204, DATE: MARCH 6, 2006 LONG. = 107.55.4952' W NAD 27 LAT. = 36"49.2897" N

6190	6210	ELEV. C-C'	6180	6190	6200	6210	ELEV. B-B'	6180	6190	6200	6210	ELEV. A-A'
		c/L					c/L					C/L

NOTE: NOTE: DAGGETT ENTERPRISES, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. NEW MEXICO ONE CALL TO BE NOTIFIED 48 HOURS PRIOR TO EXCAVATION OR CONSTRUCTION.

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.



Daggett Enterprises, inc. P. O. Box 15068 • Farmington, MM 87401 Phone (505) 326-1772 • Fax (505) 326-8019 Surveying and Oil Field Services

NEW MEXICO LS. 14831 DATE: 03/10/08 GACCOVE TRUMO

BURLINGTON RESOURCES OIL & GAS COMPANY LP SUNRAY J No. 1M, 1000 FSL 2380 FWL

LONG.

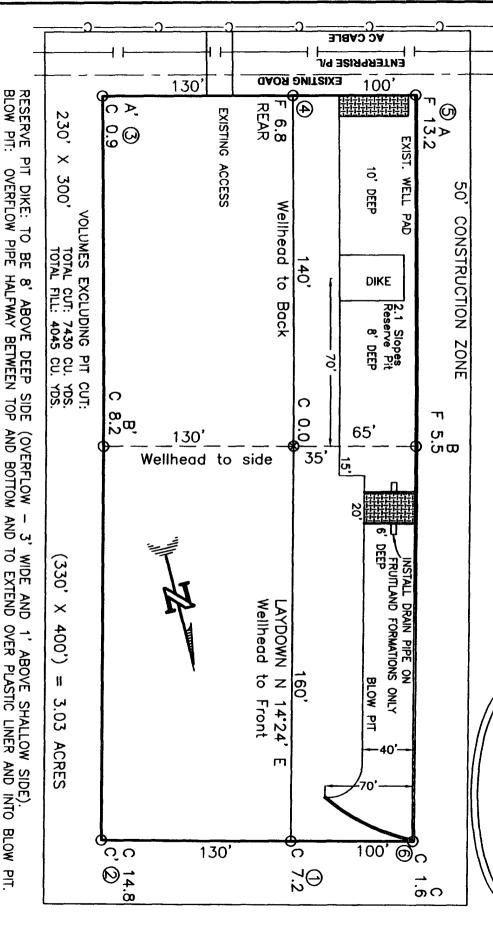
NAD 83 36.82150° N 107.92554°

LAT.

= 36.49.2897' N = 107.55.4952

NAD 27

SECTION 7, T-30-N, R-10-W, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO **GROUND ELEVATION: 6204, DATE: MARCH 6, 2006**



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

NOTE:

DAGGETT ENTERPRISES, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. NEW MEXICO ONE CALL TO BE NOTIFIED 48 HOURS PRIOR TO EXCAVATION OR CONSTRUCTION.

NOTE:

ESTIMATED VOLUMES CALCULATED BY AVERAGE END AREA AT CROSS-SECTION SHOWN

Surveying and Oil Field Services Daggett Enterprises, Inc.

15068 · Farmington, MM 87401

Phone (505) 326-1772 · Fox (505) 326-801

OPERATIONS PLAN

SUNRAY J 1M 1000' FSL & 2380' FWL, Section 07 T30N R10W Location: San Juan County, New Mexico						
Formation: Elevation:	Blanco Mesaverde/Basin Dakota 6204' GL San Jose					
Surface Surface	San Jose	1420' 1483'	aquifer			
Ojo Alamo Kirtland Fruitland Coal Pictured Cliffs Lewis Huerfanito Bentonite Chacra Massive Cliff House Menefee Massive Point Lookout Mancos Shale Upper Gallup Greenhorn Graneros Two Wells	1420' 1483' 2451' 2765' 2911' 3508' 3803' 4376' 4547' 5023' 5428' 6284' 7030' 7087' 7136'	2451' 2765' 2911' 3508' 4376' 4547' 5023' 5428' 6284' 7030' 7087' 7136' 7224'	gas gas gas gas gas gas gas gas gas			
Paguate Cubero Encinal Total Depth:	7224' 7269' 7331' 7331'	7331' 7331'	gas gas gas			

Mud Logs/Coring/DST

Mud logs - none Coring - none DST - none

Open hole - none

Cased hole - Gamma Ray, CBL - surface to TD

Mu

120- 3011'	Type Spud MUD/Air/Air Mist LSND Air/Air Mist/Nitrogen	8.4 - 9.0	<u>Vis.</u> 40 - 50 30 - 60 n/a	Fluid Loss no control no control n/a
3011 - 7331'	Air/Air Misc/Microgen			

C. HARRADEN/ April 12, 2006

BURLINGTON RESOURCES/ Sunray J #1M APD

STIPULATION/CONDITION OF APPROVAL

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

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

<u> Hole Size</u>	Depth Interval	<u>Csg.Size</u>	<u>Wt.</u>	<u>Grade</u>
12 1/4"	0' - 120:200	9 5/8"	32.3#	H-40
8 3/4"	0' - 3011'	7"	20/23#	J-55
6 1/4"	0' - 7331'	4 1/2"	10.5#	J-55

Tubing Program:

Depth Interval	<u>Csg.Size</u>	<u>Wt.</u>	<u>Grade</u>
0' - 7331'	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.

Cementing:

9 5/8" surface casing -

Pre-Set Drilled - Cement with Type I, II cement with 20% flyash mixed at 14.5 ppg, 1.61 cu ft per sack yield. (Constitution of pre-set holes before pressure testing or drilling out from under surface.

Conventionally Drilled - Cement with 188 sx Type III cement with 0.25 pps Celloflake, 2% CaCl.

(M3 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 258 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/33 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: 225 sacks Premium Lite cement with 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate (479 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 @ 1483'. Two turbolating centralizers at the base of the Ojo Alamo @ 1483'. 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 283 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 (560 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 South half of Section 7 is dedicated to the Mesa Verde formation and Dakota formation.
- This gas is dedicated.

Drilling Engineer

4/5/06 Date

e rams. A stripping head to be traballed on the top of ressure or greater excluding 500 pal atripping head. he BOP. All BOP equipment is 2000 pel working sure double gate 60P to be equit Pigare #2

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Figure #1