UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

	APPLICATION FOR F	PERMIT TO DRILL, DEEPEN	I, OR PLUG BACK	, ,
1a. 1b.	Type of Work DRILL Type of Well GAS	WIL SEARCE OF THE PARTY OF THE	5. Lease Number SF-078487-C Unit Reporting Nu 0.000 FARMER 6. If Indian, All. or To	
2.	Operator BURLINGTON RESOURCES Oil & Gas Com	CON CHET. 3	7. Unit Agreement N	ame
3.	Address & Phone No. of Operator PO Box 4289, Farmington, (505) 326-9700	NM 87499 11818	8. Farm or Lease Na Sunray 9. Well Number #8N	me
4.	Location of Well 1530' FSL, 1840' FWL Latitude 36 ⁰ 45.0381'N, Lor	ngitude 107 ⁰ 41.9609′	10. Field, Pool, Wild Blanco Mesaverd 11. Sec., Twn, Rge, W Sec. 5, T29N API # 30-045- 32	le/Basin Dakot Mer.(NMPM) L. R08W
14.	Distance in Miles from Nearest Town 9.8 miles to Blanco, NM		12. County San Juan	13. State NM
15. 16.	Distance from Proposed Location to N 1530' Acres in Lease		17. Acres Assigned	to Well #
18.	Distance from Proposed Location to N			
19.	Proposed Depth 7556'		20. Rotary or Cable Rotary	Tools
21.	Elevations (DF, FT, GR, Etc.) 6361' GR	· · · · · · · · · · · · · · · · · · ·	22. Approx. Date W	ork will Start
23. 24.	Proposed Casing and Cementing Prog See Operations Plan attached Authorized by: Regulatory/Com		<u> 7/6</u> Date	/06
PERM	oved by Alleita	APPROVAL DA	TE DATE	6/19/56
Threat	eological Report attached tened and Endangered Species Report at This format is issued in lieu of U.S. BLM For 8 U.S.C. Section 1001, makes it a crime for	rm 3160-3 \ /	ly to make to any departm	nent or agency of the

S.

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. 86240

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

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

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

2040 South Pacheco Santa Fe, NM 87505

☐ AMENDED REPORT

DISTRICT IV 2040 South Pacheco, Santa Pe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number		*Pool Code		
30-045- 33838		72319/71599	99 Blanco Mesaverde/Basin Dakota	
⁴ Property Code		*Pro	operty Name	* Well Number
7560		SU	NRAY	8N
OGRID No.		° Ope	erator Name	* Elevation
14538		BURLINGTON RESOURCES	S OIL AND GAS COMPANY LP	6361'

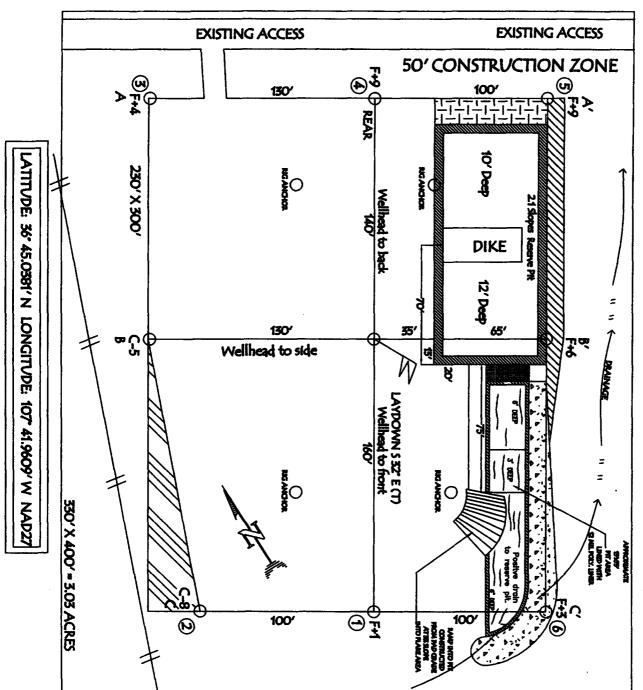
¹⁰ Surface Location

UL or lot no.	Section 5	Township 29—N	Range 8-W	Lot ldn	1530'	SOUTH	1840'	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/Vest line	County
K									
Dedicated Acre	8		18 Joint or	Infill	4 Consolidation C	ode	*Order No.		
DK 320.0) ac S2		1		Ì				
MV 324.9	#ac W	2				_			

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

16				17 OPERATOR CERTIFICATION I hereby vertify that the information contained herein is true and complete to the best of my knowledge and belief
LOT 4 USA SF-	LOT 3 -078487-C	LOT 2	LOT 1	Signature Joni Clark Printed Name
1840'	LAT: 36'45.0381' N. LONG: 107'41.9809' W. NAD 1927	USA SF-	-078487-C	Sr. Regulatory Specialist Title 3/16/2006 Date 18 SURVEYOR CERTIFICATION 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 and correct to the best of my belief.
N 88° 0°	1530°			Signature of Surveyor 15703 Cartificate Number 15703

Office	State of New Mexico	Form C-103
District I	Energy, Minerals and Natural Resources	May 27, 2004
1625 N. French Dr., Hobbs, NM 88240		WELL API NO. 22002
District II	OIL CONSERVATION DIVISION	
1301 W. Grand Ave., Artesia, NM 88210 District III	1220 South St. Francis Dr.	5. Indicate Type of Lease STATE FEE
1000 Rio Brazos Rd., Aztec, NM 87410	6. State Oil & Gas Lease No.	
District IV	Santa Fe, NM 87505	o. State on & das Lease No.
1220 S. St. Francis Dr., Santa Fe, NM 8750	5	SF-078487-C
	ES AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name
DIFFERENT RESERVOIR. USE "APPLICATION"	TO DRILL OR TO DEEPEN OR PLUG BACK TO A	Summer.
PROPOSALS.)	WIORIERUM (IORNIC-101) TOR SOCI	Sunray
1. Type of Well:		8. Well Number
Oil Well Gas Well X	Other	8N
2. Name of Operator	ATT OFFICE OF A GLASSON PLANTAGE	9. OGRID Number
3. Address of Operator	URCES OIL & GAS COMPANY LP	14538 10. Pool name or Wildcat
•	EET, FARMINGTON, NM 87402	Blanco Mesaverde/ Basin Dakota
4. Well Location		
	feet from the South line and	1840 feet from the West line
Section 5	Township 29N Rng 8W Elevation (Show whether DR, RKB, RT, GR, etc.)	NMPM County San Juan
	6361'	
Pit or Below-grade Tank Application	or Closure	
Pit type New Drill Depth to Groundwa	ter >100' Distance from nearest fresh water well	> 1000' Distance from nearest surface water >1000'
Pit Liner Thickness: 12	mil Below-Grade Tank: Volume	bbls; Construction Material
12 Charles	appropriate Box to Indicate Nature of No	tice Percet or Other Date
		<u>-</u>
NOTICE OF IN	PLUG AND ABANDON REMEDIA	SUBSEQUENT REPORT OF:
TEMPORARILY ABANDON		L WORK ALTERING CASING CE DRILLING OPNS. P AND A
PULL OR ALTER CASING	— 1	CEMENT JOB
	<u> </u>	
OTHER: New		
	d appropriance (Clearly state all portinget details, and	
		give pertinent dates, including estimated date
of starting any proposed work).	SEE RULE 1103. For Multiple Completions: Atta	
of starting any proposed work).		
of starting any proposed work).		
of starting any proposed work).		
of starting any proposed work). or recompletion.		
of starting any proposed work).		
of starting any proposed work). or recompletion. New Drill, Unlined:	SEE RULE 1103. For Multiple Completions: Atta	ch wellbore diagram of proposed completion
of starting any proposed work). or recompletion. New Drill, Unlined: Burlington Resources proposes to con	SEE RULE 1103. For Multiple Completions: Atta	ch wellbore diagram of proposed completion pit. Based on Burlington's interpretation of the
of starting any proposed work). or recompletion. New Drill, Unlined: Burlington Resources proposes to con Ecosphere's risk ranking criteria, the	SEE RULE 1103. For Multiple Completions: Attainstruct a new drilling pit and an associated vent/flare new drilling pit and vent/flare pit will be an unlined	ch wellbore diagram of proposed completion pit. Based on Burlington's interpretation of the pit as detailed in Burlington's Revised Drilling /
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RAY 8N, 1530' FSL & 1840' FWL

- N, R-8-W, NMPM, SAN JUAN COUNTY, NA
VATION: 6361', DATE: FEBRUARY 13, 2006

NOTE: VECTOR SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.

CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED

PIPLINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

SUNRAY 8N, 1530' FSL & 1840' FWL SECTION 5, T-29- N, R-8-W, NMPM, SAN JUAN COUNTY, NM **BURLINGTON RESO**I GROUND ELEVATION: 6361', DATE: FEBRUARY 13, 2006

6350	6360	6370	6380	ELEV. C'-C	6350	6360	6370	6380	ELEV. B'-B	6350	6360	6370	6380	ELEV. A'-A
				St.					2					C/L

PIPLINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION. NOTE: VECTOR SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED

OPERATIONS PLAN

<u>Well Name:</u>	SUNRAY 8N

Location: 1530' FSL & 1840' FWL, Section 05 T29N R08W

San Juan County, New Mexico

Formation:

Elevation: Blanco Mesaverde/Basin Dakota

6361' GL

Surface	San Jose		
Surface	San Jose	2038'	
Ojo Alamo	2038'	2123'	aquifer
Kirtland	2123'	2763'	gas
Fruitland	2763'	3043'	gas
Pictured Cliffs	3043'	3163'	gas
Lewis	3163'	3738'	
Huerfanito Bentonit	-3738'	4002'	
Chacra	4002'	4644'	gas
Massive Cliff House	4644'	4812'	gas
Menefee	4812'	5237'	gas
Massive Point Looko	· 5237'	5668'	gas
Mancos Shale	5668'	6503'	
Upper Gallup	6503'	7227'	gas
Greenhorn	7227'	7283'	gas
Graneros	7283'	7327'	gas
Two Wells	7327'	7441'	gas
Paguate	7441'	7458'	gas
/Upper Cubero	7458'	7496'	gas
Lower Cubero	7496'	7551'	gas
Encinal	7551'	7556'	gas
Total Depth:	7556'		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:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Vis.</u>	<u>Fluid Loss</u>
0 - 120'	Spud MUD/Air/Air N	Mist8.4 - 9.(40 - 50	no control
120- 3263'	LSND	8.4 - 9.(30 - 60	no control
3263 - 7556'	Air/Air Mist/Nitro	ogen 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"	0' - 120'	9 5/8"	32.3#	H-40
8 3/4"	0' - 3263'	7"	20/23#	J- 55
6 1/4"	0' - 7556'	4 1/2"	10.5#	J-55
:				

Tubing Program:

Depth Interval	Csg.Size	<u>Wt.</u>	<u>Grade</u>
0' - 7556'	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, BOP 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, BOP 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 285 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/26 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: 258 sacks Premium Lite cement with 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate (549 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 @ 2123'. Two turbolating centralizers at the base of the Ojo Alamo @ 2123'. 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 5 is dedicated to the Mesa Verde formation and the South half of Section 5 is dedicated to the Dakota formation.
- This gas is dedicated.

~ ~ ~	4/5/06	
Dilling Engineer	Date	

Blowout preventor equipment (BOPE) tests must be performed using an appropriately sized test plug. The BOPE test must be performed and recorded using a test pump, calibrated test gauges and a properly calibrated strip or chart recorder. The test must 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 authorized in the Application for Permit to Drill (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 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 the BOPE will be exposed. Casing pressure tests must be held for 30 minutes with no more than a 10 percent pressure drop during the duration of the test.

Burlington Resources

2000 psi System **Drilling Rig**

Completion/Workover Rig BOP Configuration 2,000 pai System

Drilling Rig Choke Menifold Configuration 2000 pel System

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

Figure #3

pipe rams. A stripping head to be installed on the top of Operations. 7-1/16" bors, 2000 pel minimum working pressure double gate BOP to be equipped with blind and dintmum BOP installation for all Completion/Workover

the BOP. All BOP equipment is 2000 pal working ture or greater excluding 500 psi stripping head.

4-20-01

Figure #1

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