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

1a.	Type of Work	5. Lease Number
	DRILL	SF-078144
	The state of the s	─ Unit Reporting Number ** ** *** *** *** *** *** *** *** ***
b.	Type of Well	6. If Indian, All. or Tribe
	GAS FEB 230 ED	
2.	Operator  BURLINGTON  OILONIO	7, Unit Agreement Name
	Operator  BURLINGTON  RESOURCES  Oil & Gas Company  OILCON  DIST. 3	4.1
	RESOURCES Oil & Gas Company	ريم الآيم الآي الآيم الآيم ا
3.	Address & Phone No. of Operator	8. Farm or Lease Name
	PO Box 4289, Farmington, NM 87499	Cedar Hill
		9. Well Number
	(505) 326-9700	1M
4.	Location of Well	10. Field, Pool, Wildcat
	1715' FNL, 819' FWL	Blanco MV/Basin DK
		11. Sec., Twn, Rge, Mer. (NMPM)
	Latitude 36° 48.0, Longitude 107° 56.9	Sec. 24, T-30-N, R-11-W
		API# 30-045- 360 78
14.	Distance in Miles from Nearest Town	12. County 13. State
	6 miles from Aztec	San Juan NM
15.	Distance from Proposed Location to Nearest Property or Lease L	ine
	819'	
16.	Acres in Lease	17. Acres Assigned to Well  312.82 W/2
		MV N/720
18.	Distance from Proposed Location to Nearest Well, Drig, Compl, o	
. •••	1100/	
19.	Proposed Depth 7187/ This today to the collection of the collectio	20. Rotary or Cable Tools
	7187' and appeal purecont to 45 Orm \$160.8.	Rotary
21.	Elevations (DF, FT, GR, Etc.)	22. Approx. Date Work will Start
	6103' GR	
23.	Proposed Casing and Cementing Program	ADVINE ADVINCTION OF THE ADVINCTION ADVINCES ADVINCES ADVINCES.
	See Operations Plan attached	DRILLING OPERATIONS AUTHORITIC AR
		SUBJECT TO COMPETANCE WITH A MACI "GENERAL PEQUIREMENTS"
24	Authorized by Degay Cole	12-6-99
24.	Regulatory/Compliance Administrato	
PERI	MIT NO APPROVAL D	ATE
	——————————————————————————————————————	
	ROVED BY <b>/S/ Jim Loveto</b> TITLE	DATEFEB   7 2000

Archaeological Report to be submitted
Threatened and Endangered Species Report to be submitted
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.

DISTRICT 1 P.O. Box 1980, Hobbs, N.M. 88241-1980 State of New Mexico
Energy, Minerals & Natural Resources Department

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

Submit to Appropriate District Office

DISTRICT II F.O. Drawer DD, Artesia, N.M. 88211-0719

OIL CONSERVATION DIVISION TO -1 71 1: 33

State Lease - 4 Copies
Fee Lease - 3 Copies

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

DISTRICT IV

PO Box 2088, Santa Fe, NM 87504-2088

DISTRICT IN

P.O. Box 2088 Santa Fe, NM 87504-2088

AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

'AFI Number 30-045- 50078	*Pool Code 72319/71599	Pool Name Blanco Mesaverde/Basin Dal	kota
Property Code	*P1	DAR HILL	• Well Number 1M
'OGRID No.	• 0	perator Name	Elevation
14538	BURLINGTON RESOUR	RCES OIL & GAS COMPANY	61 <b>03</b> °

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
E	24	30-N	11-W		1715	NORTH	81 <b>9</b>	WE <b>ST</b>	SAN JUAN
<sup>11</sup> Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/West line	County

Pa Dedicated Acres 12 Joint or Infill 14 Consolidation Code 15 Order No.

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED

		OR A NON-STAN	DARD UNIT HAS BE	EN APPROVED BY	THE DIVISION
BLM CAP	1969 BRASS	602.77'(M) FD. 1969 BLM BRASS CAP	N 89-07-55 W	2508.76'(M) FD. 1969 BLM BRASS CAP	17 OPERATOR CERTIFICATION  1 hereby certify that the information contained herein is true and complete to the best of my knowledge and belief
W 2617.66'(M)	1715	2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/	FEB 2000 PECELVED OIL CON DRY		
N 00-15-35	819' LOT 5	6° 48.0° N. 107° 55.9° W. LOT 6	*LV4+1		Peggy Cole Printed Name Regulatory Administrator
FD.	1969 BRASS CAP		! 24		12 -6 -99  Date  18 SURVEYOR CERTIFICATION
	LOT 12	 			I hereby certify that the well location shows 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.
			 		Date of Survey W ME
	SF-080113	SF-078144	 		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	LOT 13	LOT 14 	1		Serificate Number

### OPERATIONS PLAN

Well Name: Cedar Hill #1M

Location: 1715'FNL, 819'FWL, Sec 24, T-30-N, R-11-W

San Juan County, NM

Latitude 36° 48.0, Longitude 107° 56.9

Formation: Blanco Mesa Verde/Basin Dakota

Elevation: 6103' GL

Formation Tops:	<u>Top</u>	Bottom	Contents
Surface	San Jose	1178'	
Ojo Alamo	1178'	1314'	aquifer
Kirtland	1314'	1966 <b>'</b>	gas
Fruitland	1966'	2562'	gas
Pictured Cliffs	2562'	2716'	gas
Lewis	2716'	3314'	gas
Mesa Verd <b>e</b>	3314 <b>′</b>	3577 <b>′</b>	gas
Chacra	3577 <b>'</b>	4264′	gas
Massive Cliff House	4264'	4373'	gas
Menefe <b>e</b>	4373'	4877 <b>'</b>	gas
Massive Point Lookout	4877 <b>'</b>	5267 <b>'</b>	gas
Mancos	5267 <b>'</b>	6112'	gas
Gallup	6112 <b>'</b>	68 <b>46′</b>	gas
Greenhorn	684 <b>6</b> '	6902 <b>'</b>	gas
Graner <b>os</b>	690 <b>2'</b>	6962'	gas
Dakota	69 <b>62′</b>		gas
TD	718 <b>7'</b>		

### Logging Program:

Cased hole - CBL-CCL-GR - TD to surface Cores - none

### Mud Program:

Interval	Туре	Weight	Vis.	Fluid Loss
0- 320'	Spud		40-50	no control
320-7187 <b>'</b>	LSND	8.4-9.0	40-60	8-12

Pit levels will be visually monitored to detect gain or loss of fluid control.

### Casing Program:

Hole Siz <b>e</b>	Depth Interval	Csg.Siz <u>e</u>	Wt.	Grade
$\frac{12 \ 1/4"}{}$	0' - 320'	8 5/8"	24.0#	WC-50
7 7/8"	0' - 7187'	5 1/2"	15.5#	J-55

## Tubing Program:

0'	- 5267'	1	1/2"	2.76#	J-55	EUE
0'	- 7187'	1	1/2"	2.90#	J-55	EUE

## BOP Specifications, Wellhead and Tests:

### Surface to 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.

2" nominal, 2000 psi minimum choke manifold (Reference Figure #3).

## Completion Operations -

6" 2000 psi double gate BOP stack (Reference Figure #2).
After nipple-up prior to completion, pipe rams and casing top will be tested to 3000 psi for 15 minutes.

### Surface to Total Depth -

2" nominal, 2000 psi minimum choke manifold (Reference Figure #3).

#### Wellhead -

8 5/8" x 5 1/2" x 1 1/2" x 1 1/2" x 3000 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.
- A BOP pit level drill will be conducted weekly for each drilling crew.
- All of the BOP tests and drills will be recorded in the daily drilling reports.
- · Blind and pipe rams will be equipped with extension hand wheels.

#### Cementing:

8 5/8" surface casing -

Cement to surface w/336 sx Class "B" cement w/3% calcium chloride and 1/4#/sx cellophane flakes (396 cu.ft. of slurry, 200% excess to circulate to surface.) WOC 8 hr prior to drilling out surface casing. 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.

Production Casing - 5 1/2"

Two-stage cement job as follows:

First Stage: Cement to circulate to stage tool @ 3594'. Lead with 923 sx Class "B" 50/50 poz with 2% gel, 0.25 pps Cellophane, 5 pps Kolite, 0.4% D-60, 0.2% D-65. WOC 4 hours prior to pumping second stage. (Slurry volume: 1246 cu.ft. Excess slurry 50%.)

Second Stage: Cement to circulate to surface. Cement with 425 sx Class "B" with 3% sodium metasilicate, 0.25 pps cellophane, 5 pps Kolite. WOC a minimum of 18 hours prior to cleanout. (Slurry volume: 1246 cu.ft. Excess slurry: 50%.)

Float shoe on bottom. Three centralizers run every other joint above shoe. Thirty-five centralizers - one every 4th joint to the base of the Ojo Alamo @ 1314'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 1314'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

# Additional Information:

The Mesaverde and Dakota formations will be completed and dualled.

- No abnormal temperatures or hazards are anticipated.
- 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 24 is dedicated to this well.
- This gas is dedicated.
- Anticipated pore pressure

Fruitland Coal 300 psi Pictured Cliffs 500 psi Mesa Verde 700 psi Dakota 3000 psi

Drilling Enginee:

12/7/1999

Date

BURLINGTON RESOURCES

**BOP Configuration** 

2M psi System

FIGURE #2

Figure £3

