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

а.	Type of Work	5. Lease Number NM-04209
	DRILL -	Unit Reporting Number
b.	Type of Well	6. If Indian, All. or Tribe
	· · · · · · · · · · · · · · · · · · ·	EC 2000
•	Operator BURLINGTON RESOURCES Oil & Gas Company	7. Unit Agreement Name
	Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499	8. Farm or Lease Name Feuille
	(505) 326-9700	9. Well Number 3M
<b>).</b>	Location of Well 1495'FSL, 1745'FWL	10. Field, Pool, Wildcat  Blanco MV/Basin DK
L	Latitude 36° 38.7, Longitude 107° 45	11. Sec., Twn, Rge, Mer. (NMPM) .7 Sec. 23, T-28-N, R-9-W API # 30-045- 3 € 4   6
14.	Distance in Miles from Nearest Town 6 miles from Blanco	12. County 13. State San Juan NM
15.	Distance from Proposed Location to Nearest Propert	y or Lease Line
16.	Acres in Lease	17. Acres Assigned to Well 320 W/2
18.	Distance from Proposed Location to Nearest Well, D	orlg, Compl, or Appli∈d for on this Lease
19.	Proposed Depth 7940' This action is subject to teachnical procedural review pursuant to 43 and appear pursuant to 43 CFR	CFR 2165.3
21.	Elevations (DF, FT, GR, Etc.) 7003 GR	22. Approx. Date Work will Start
23.	Proposed Casing and Cementing Program See Operations Plan attached	Parties of the Control of the Contro
	Authorized by: Japan ale	SUBJECT WHO THE ATTACHED WEST ATTACHED "GENERAL REQUIREMENTS"  9-8-00  pervisor Date
24.	Regulatory/Compliance Su	PCI VIBOL BUSG
		APPROVAL DATE

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.

Jhis well was department or agency of the United States any false, fictitious or fraudulent statements or presentations as to any matter within its jurisdiction.

MMOCD

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

W/320

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 17 3 PO Box 2088 Santa Fe. NM 87504-2088

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

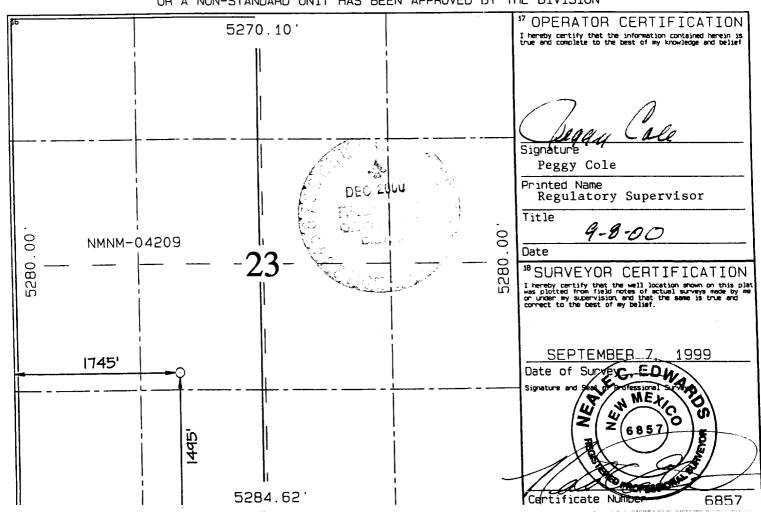
Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

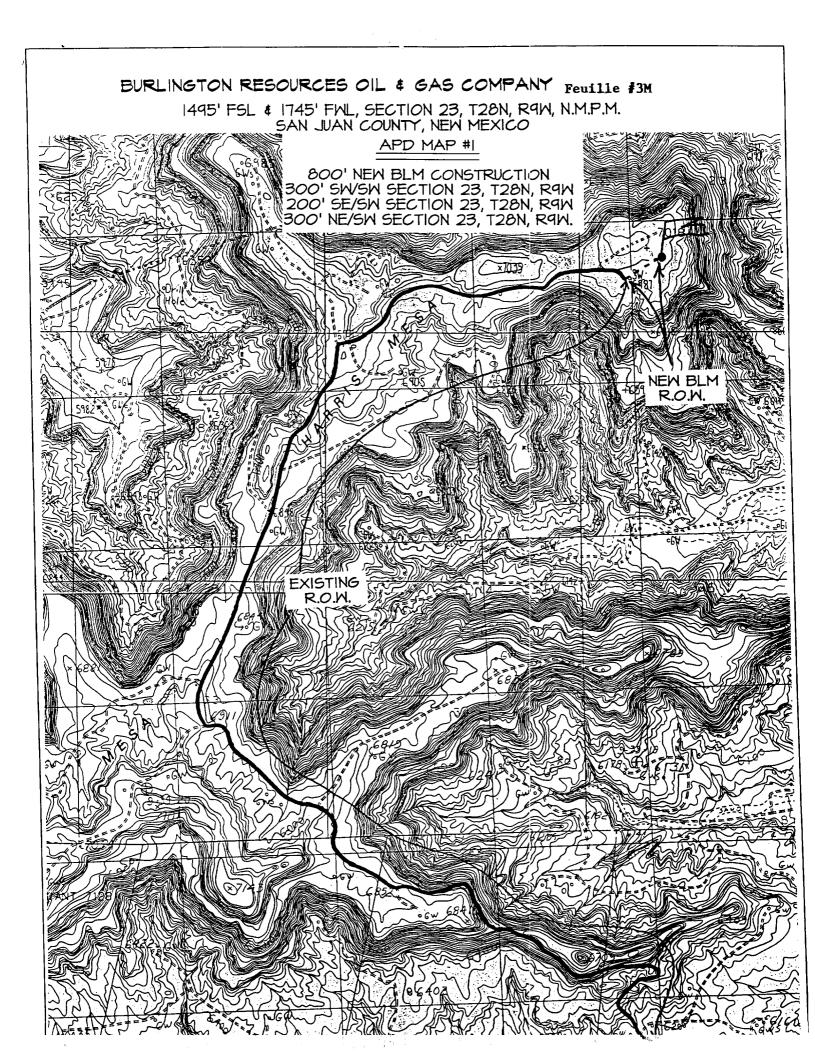
AMENDED REPORT

# WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number				² Pool Code		'Pool Name			
30-045-304/Le			7231	72319/71599		Blanco Mesaverde/Basin Dakota			
'Property	Code			· · · · · · · · · · · · · · · · · · ·	*Property	Name		• Me	ell Number
7014	ļ	Feuille			3	M			
'OGRID N 14538	No.		BURLI	NGTON	*Operator RESOURCES	Name S OIL & GAS	COMPANY		levation 7003 —
					<sup>10</sup> Surface	Location			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
К	23	2BN	9W		1495	SOUTH	1745	WEST	SAN JUAN
		11 E	ottom	Hole L	ocation I	f Different	From Surf	ace	
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 In	fill <sup>14</sup> Cons	colidation Code	<sup>25</sup> Order No.		]		

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





#### OPERATIONS PLAN

Well Name: Feuille #3M

Location: 1495'FSL, 1745'FWL, Sec 23, T-28-N, R-9-W

San Juan County, NM

Latitude 36° 38.7, Longitude 107° 45.7

**Formation:** Blanco Mesaverde/Basin Dakota

Elevation: 7003'GL

Formation Tops:	Top	Bottom	<b>Contents</b>
Surface	San Jose	2251'	
Ojo Alamo	2251'	2384'	aquifer
Kirtland	2384'	3010 <b>′</b>	gas
Fruitland	3010'	3272 <b>'</b>	gas
Pictured Cliffs	3272 <b>'</b>	3376'	gas
Lewis	3376'	3838 <b>'</b>	gas
Intermediate TD	3476'		
Mesa Verde	3838 <b>′</b>	4230 <b>′</b>	gas
-Chacra	4230'	4932 <b>′</b>	gas
Massive Cliff House	4932'	4968'	gas
Menefee	4968'	5532 <b>′</b>	gas
Massive Point Lookout	5532'	5737 <b>'</b>	gas
Mancos	5737 <b>′</b>	6717 <b>′</b>	gas
Gallup	6717 <b>′</b>	7477'	gas
Greenhorn	7477'	7537 <b>'</b>	gas
Graneros	7537'	7655'	gas
Dakota	7655 <b>′</b>		gas
TD	7940 '-		

### Logging Program:

Cased hole - CBL-CCL-GR - TD to surface
Open hole - Platform express, Density, GR-Neutron, CMR- TD to
intermediate casing
Cores - none

#### Mud Program:

Interval	Туре	Weight	Vis.	Fluid Loss
	Spud	8.4-9.0	40-50	no control
200- 3476"	LSND	8.4-9.0	30-60	no control
3476- 7940'	Air/N2	n/a	n/a	n/a

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

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

Hole Size	Depth Interval	Csg.Size	Wt.	Grade
14 3/4"	0' - 200'	11 3/4"	42.0#	H-40
10 5/8"	0' - 3476'	8 5/8 <b>"</b>	32.0#	K-55
7 7/8 <b>"</b>	3376' - 7940' 🦳	5 1/2"	15.5#	K-55

#### Tubing Program:

0' -5737'	1 1/2"	2.90#	J-55
• • • • •	1 1/0//	2 764	T E E
0' -7940'	1 1/2"	2.76#	0-00

# BOP Specifications, Wellhead and Tests:

### Surface to Intermediate TD -

11" 3000 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" 3000 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, 3000 psi minimum choke manifold (Reference Figure #2).

# Completion Operations -

7 1/16" 3000 psi double gate BOP stack (Feference Figure #3). After nipple-up prior to completion, pipe rams, casing and liner top will be tested to 3000 psi for 15 minutes.

#### Wellhead -

11 3/4" x 8 5/8" 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.
- BOP pit level drill will be conducted weekly for each drilling crew.
- All BOP tests and drills will be recorded in daily drilling reports.
- · Blind and pipe rams will be equipped with extension hand wheels.

## Cementing:

11 3/4" surface casing - cement with 221 sx Class "B" cement with 1/4# flocele/sx and 3% calcium chloride (260 cu.ft. of slurry, 200% excess to circulate to surface). WOC 8 hrs. 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.

8 5/8" intermediate casing Lead w/459 sx Class "B" w/3% Econolite, 10 pps gilsonite/sx and
0.5 pps flocele/sx. Tail w/95 sx Class "B" 50/50 poz w/2% gel,
2% calcium chloride, 5 pps Gilsonite/sx, 0.25 pps flocele/sx
(1460 cu.ft. of slurry, 100% excess to circulate to surface.)
WOC minimum of 8 hours before drilling out intermediate casing.
If cement does not circulate to surface, a CBL will be run
during completion operations to determine TOC. Test casing to
1500 psi for 30 minutes.

8 5/8" intermediate casing alternative two stage: Stage collar at 2910'. First stage: cement with w/179 sx Class "B" 50/50 poz w/2% gel, 2% calcium chloride, 5 pps Gilsonite/sx, 0.25 pps Flocele. Second stage: 420 sx Class "B" w/3% Econolite, 10 pps gilsonite/sx and 0.5 pps flocele/sx (1460 cu.ft. of slurry, 100% 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 at 2384'. Two turbolating centralizers at the base of the Ojo Alamo at 2384'. Bowspring centralizers spaced every fourth joint from the base of the Ojo Alamo to the base of the surface casing.

5 1/2" Production Liner -

Cement to cover minimum of 100' of 5 1/2" x 8 5/8" overlap. Lead with 753 sx 50/50 Class "B" Poz with 4% gel, 0.3% fluid loss, 0.3% dispersant, 0.25% retarder, 0.25# flocele/sx, 5# gilsonite/sx, (1091 cu.ft.), 40% excess to cement 5 1/2" x 8 5/8" overlap). WOC a minimum of 18 hrs prior to completing.

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

Cement float shoe on bottom with float collar spaced on top of shoe joint.

- Note: To facilitate higher hydraulic stimulation completion work, no liner hanger will be used. In its place, a long string of 5 1/2" casing will be run and cemented with a minimum of 100' of cement overlap between the 5 1/2" x 8 5/8" casing strings. After completion of the well, a 5 1/2" retrievable bridge plug will be set below the top of cement in the 5 1/2" x 8 5/8" overlap. The 5 1/2" casing will then be backed off above the top of cement in the 5 1/2" x 8 5/8" overlap and laid down. The 5 1/2" bridge plug will then be retrieved and the production tubing will be run to produce the well.
- 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 (Gas/Mist Drilling):

The following equipment will be operational while gas/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.
- · Deduster equipment will be utilized.
- 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 Mesaverde and Dakota formations will be completed and dualled.
- 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 2500 psi

- Sufficient LCM will be added to the mud system to maintain well control, if lost circulation is encountered.
- The west half of Section 23 is dedicated to the Mesaverde and Dakota in this well.
- This gas is dedicated.

Dralling Engineer

10/20/00 Date