# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

a.	Type of Work		5. Lease Number SF-078200-B
	DRILL ~		Unit Reporting Number
<b>.</b>	Torre of Wall	1	6. If Indian, All. or Tribe
b.	Type of Well GAS		or in indually state or the
	Operator	56789	7. Unit Agreement Name
	BURLINGTO		
	Address & Phone No. of PO Box 4289, Fa	Operator E DECEIVE	Riddle B  9 Well Number
	(505) 326-9700		#1B
 }.	Location of Well	EN 52 27 V	10. Field, Pool, Wildcat
į.	660'FSL, 1960'FEI		Otevo -WC:30N10W270 Chacra/ Blanco Mesaverde
	T-1-1-1-3- 360 46 5	, Longitude 107 <sup>0</sup> 52.2	11. Sec., Twn, Rge, Mer. (NMPM) Sec. 27, T-30-N, R-10
	Latitude 36° 46.	, hongitude 107 32.2	API # 30-045-30328-
14.	Distance in Miles from 1 5 miles from Blan		12. County 13. State San Juan NM
15.	Distance from Proposed	Location to Nearest Property or Lease I	Line
	6601	to authors to tenhalizal and	
16.	660' T	his action is subject to technical and anequal review pursuant to 43 CFR 21	65.3 17. Acres Assigned to Well
16.	660' T	his section is subject to technical and	
	Acres in Lease p  Distance from Proposed	his action is subject to technical and anequal review pursuant to 43 CFR 21	65.3 17. Acres Assigned to Well CH: SE/159.♀6 MV: E/318.22
18.	Acres in Lease p	his action is subject to technical and occidural review pursuant to 43 CFR 31 and appeal pursuant to 43 CFR 3165.4.	65.3 17. Acres Assigned to Well CH: SE/159.♀6 MV: E/318.22
18. 19.	Acres in Lease p  Distance from Proposed 800' Proposed Depth	his action is subject to technical and occident review pursuant to 43 CFR 31 and appeal pursuant to 43 CFR 3165.4.  Location to Nearest Well, Drig, Compl.	17. Acres Assigned to Well  CH: SE/159.\$6  MV: E/318.22  or Applied for on this Lease  20. Rotary or Cable Tools
18. 19. 21.	Distance from Proposed 800' Proposed Depth 5247'  Elevations (DF, FT, GR, 6040' GL	his action is subject to technical and occident review pursuant to 43 CFR \$1 and appeal pursuant to 43 CFR \$166.4.  Location to Nearest Well, Drig, Compl,	17. Acres Assigned to Well CH: SE/159.36 MV: E/318.22  Or Applied for on this Lease  20. Rotary or Cable Tools Rotary  22. Approx. Date Work will Start  DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED
18. 19. 21.	Distance from Proposed 800' Proposed Depth 5247'  Elevations (DF, FT, GR, 6040' GL	his action is subject to technical and occident review pursuant to 43 CFR \$1 and appeal pursuant to 43 CFR \$166.4.  Location to Nearest Well, Drig, Compl, Etc.)	22. Approx. Date Work will Start  DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".  17. Acres Assigned to Well CH: SE/159.36  MV: E/318.22  DO Applied for on this Lease  20. Rotary or Cable Tools Rotary  22. Approx. Date Work will Start  DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".  8-/-00
	Distance from Proposed 800' Proposed Depth 5247'  Elevations (DF, FT, GR, 6040' GL  Proposed Casing and C See Operations	his action is subject to technical and recedural review pursuant to 43 CFR 31 and appeal pursuant to 43 CFR 3165.4.  Location to Nearest Well, Drig, Compl,  Etc.)  ementing Program  Plan attached	17. Acres Assigned to Well CH: SE/159.36 MV: E/318.22  Or Applied for on this Lease  20. Rotary or Cable Tools Rotary  22. Approx. Date Work will Start  DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH AITACHED "GENERAL REQUIREMENTS".  8-/-00 Date

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 I PO 80x 1980, Hobbs, NM 88241-1980

District II PO Drawer DO, Artesia, NM 88211-0719

District III 1000 Rio Brazos Rd. Aztec, NM 87410

District IV PO Box 2088, Santa Fe, NM 87504-2088 State of New Mexico

Energy, Minerals & Natural Resources Department

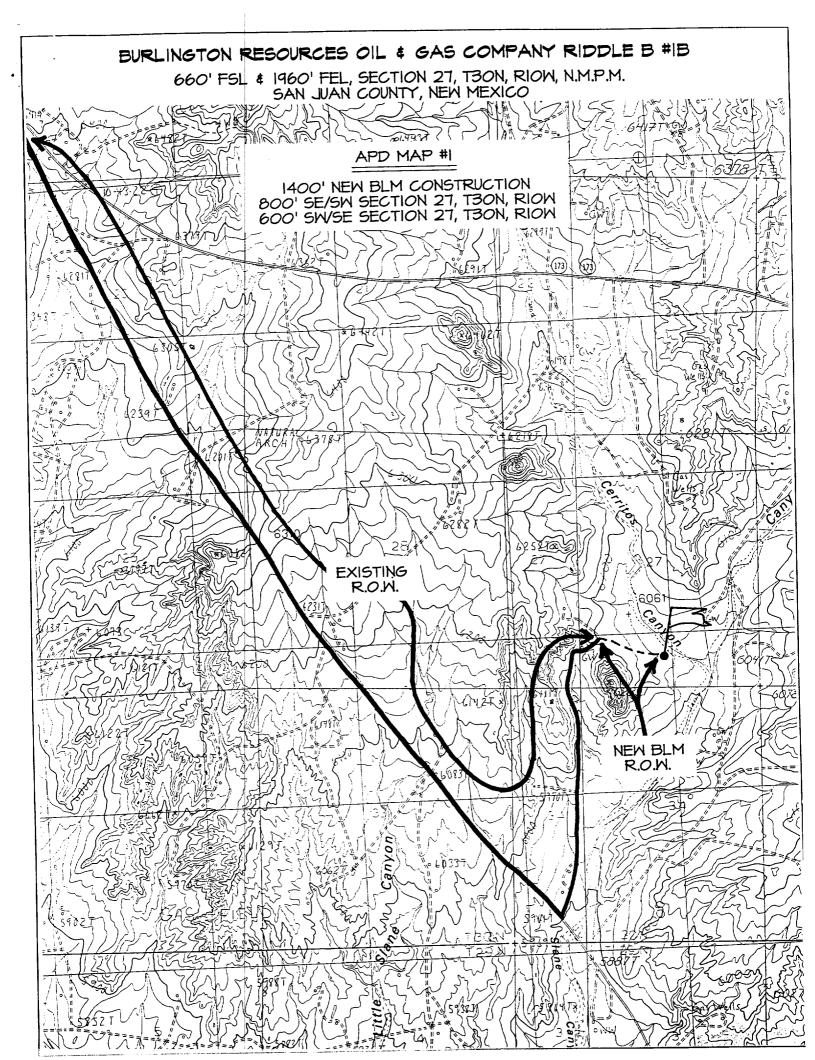
Form C-102 Revised February 21, 1994 Instructions on back Appropriate District Office

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

OIL CONSERVATION DIVISION
PO Box 2088 , 1 71 12: 54
Santa Fe, NM 87504-2088

AMENDED REPORT

			REAGE DEDICATI	ON PLAT		
'API Number 30-045- 36-3		i	n+200	cra/Blanco Me	esaverd	le
'Property Code 7427		Property Name			*Well Number 18	
OGRID No.  14538  BURLINGTON		'Operator Name N RESOURCES OIL & GAS COMF		1PANY	*Elevation 6040	
14336		<sup>10</sup> Surface l	Location			County
U or lot no. Section 0 27	Township Range Lot In	for Feet from the			Mest line AST	SAN JUAN
	<sup>11</sup> Bottom Hole			m Surface	West line	County
UL or lat no. Section	Township Range Lot I	dn Feet from the	NO GIV SOULT THE	Cost/	nest The	
CH: SE/159.36 MV: E/318.22	<sup>13</sup> Joint or Infill <sup>14</sup> Consolidation	Code <sup>15</sup> Order No.	•			
NO ALLOWABLE	WILL BE ASSIGNED TO OR A NON-STANDA	THIS COMPLETI	ON UNTIL ALL INTE EEN APPROVED BY T	ERESTS HAVE E HE DIVISION	BEEN CC	NSOLIDATED
LOT 4	5248.  LOT 3  67897776	LOT 2 LOT 2 LOT 8-0028	LOT 1	Signature Peggy Cole Printed Name Regulatory Title	the informati	r Le
. 68. 68. CT 12	LOT 11	7 10 0 T 10 0 SA SF 07820	LOT 9	Date SUBVEYO	at the well led notes of sion, and that of my belief	TIFICATIO  ocation shown on this actual surveys made be the same is true and
LOT 13	B LOT 14	LOT 15 LAT: 36 46.7 N LONG: 107 52.21	LOT 16   1960'	Certificate	68	DW FOOG



#### OPERATIONS PLAN

Well Name:

Riddle B #1B

Surface Location:

660'FSL, 1960'FEL, Section 27, T-30-N, R-10-W

San Juan County, New Mexico

Latitude 36° 46.7, Longitude 107° 52.2

Formation: Elevation:

WC:30N10W270 Chacra/Blanco Mesaverde

6040' GL

Formation Tops:	Top	Bottom	<u>Contents</u>
Surface	San Jose	1287'	aquifer
Ojo Alamo	1287'	1414'	aquifer
Kirtland	1414'	2028′	gas
Fruitland	2028′	2581'	gas
Pictured Cliffs	2581'	2733'	gas
Lewis	2733′	3311′	gas
Intermediate TD	2833'		
Mesa Verde	3311'	3563'	gas
Chacra	3563′	4193'	gas
Massive Cliff House	4193′	4324'	gas
Menefee	4324'	4847′	gas
Point Lookout	4847'	5247′	gas
Total Depth	5247′		

### Logging Program:

Cased hole logging - Gamma Ray, Cement bond from surface to TD Open hole logging - Array Induction, Temp, Neutron-Density - TD to intermediate Mud Logs/Coring/DST - none

## Mud Program:

FI Ogram.				
Interval- MD	<u>Type</u>	<u>Weight</u>	<u>Vis.</u>	<u>Fluid Loss</u>
0- 120'	Spud	8.4-9.0	40-50	no control
120- 2833'	LSND	8.4-9.0	30-60	no control
2833- 5247'	Air/Mist	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):

#### Measured

Hole Size	<u>Depth</u>	<u>Csg Size</u>	<u>Weight</u>	<u>Grade</u>
12 1/4"	0' + 120'	9 5/8"	32.3#	H-40
8 3/4"	0' + 2833'	7"	20.0#	J-55
6 1/4"	2733' + 5247'-	4 1/2"	10.5#	J-55

Tubing Program:

0' -5247' 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.

# BOP Specifications, Wellhead and Tests (cont'd):

# 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 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 - cement with 96 sx Class "B" cement with 1/4# flocele/sx and 3% calcium chloride (113 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.

# 7" intermediate casing -

Lead w/250 sx Class "B" w/3% sodium metasilicate, 5# gilsonite/sx and 0.5# flocele/sx. Tail w/90 sx 50/50 Class "B" Poz w/2% gel, 2% calcium chloride, 5# gilsonite/sx and 0.5# flocele/sx (852 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 to determine TOC. Test casing to 1500 psi for 30 minutes.

7" intermediate casing alternative two stage: Stage collar at 1928'. First stage: cement with 193 sx Class "B" cmt with 5 pps gilsonite, 1/2 pps cellophane, 3% sodium metasilicate. Second stage: 199 sx Class "B" with 3% sodium metasilicate, 1/2 pps Cellophane, 5 pps Gilsonite (852 cu.ft., 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 1414'. Two turbolating centralizers at the base of the Ojo Alamo at 1414'. Bowspring centralizers spaced every fourth joint from the base of the Ojo Alamo to the base of the surface casing.

4 1/2" Production Liner -

Cement to circulate liner top. Pump 256 sx 50/50 Class "B" Poz w/1/4# flocele/sx, 4% gel, 0.25% retardant, 5# gilsonite/sx and 0.3% fluid loss additive (361 cu.ft., 40% excess to circulate liner top). WOC a minimum of 18 hrs prior to completing.

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 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.
- 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 Chacra/Mesaverde formations will be completed and dualled.
- No abnormal temperatures or hazards are anticipated.
- Anticipated pore pressures are as follows:

Fruitland Coal 800 psi Pictured Cliffs 800 psi Mesa Verde 700 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 southeast quarter of Section 27 is dedicated to the Chacra and the east half of Section 27 is dedicated to the Mesa Verde.
- This gas is dedicated.

Drilling Engineer Date