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

la.	Type of Work	5. Lease Number
٠.	DRILL -	SF-077652
	5.12.22	Unit Reporting Number
lb.	Type of Well GAS	6. If Indian, All. or Tribe
2.	Operator BURLINGTON RESOURCES Oil & Gas Company	7. Unit Agreement Name
3.	Address & Phone No. of Operator	8. Farm or Lease Name
	PO Box 4289, Farmington, \$87499	East
		9. Well Number
	(505) 326-9700	#5B _
4/	Location of Well	10. Field, Pool, Wildcat
+-	2245'FSL, 780'FWL	Blanco Mesaverde
		11. Sec., Twn, Rge, Mer. (NMPM)
J.	Latitude $36^{\circ}$ 53.0'N, Longitude $108^{\circ}$ 03.4'W	∠ Sec.24, T-31-N, R-12-
		API# 30-045- 3승년 4년
14.	Distance in Miles from Nearest Town	12. County 13. State
	7 miles from Aztec, NM P.O.	San Juan NM
15.	Distance from Proposed Location to Nearest Property or Lease L	ine
16.	Acres in Lease	17. Acres Assigned to Well 320
18.	Distance from Proposed Location to Nearest Well, Drlg, Compl, o	or Applied for on this Lease
40	0.5 miles Proposed Depth This action is subject to technical and Proposed Depth procedural review oursetent to 43 CFR 3168.3	20. Betany on Cable Tasta
19.	Digosodiai iotion paroceni io it a it a	20. Rotary or Cable Tools Rotary
	and appeal pursuant to 43 CFR 3185:4.	ROCALY
21.	Elevations (DF, FT, GR, Etc.)	22. Approx. Date Work will Start
	6145' GR DRILLING	OPERATIONS AUTHORIZED ARE
<del>23</del> .	Drawaged Coping and Compating Brancom SUBJECT	TO COMPLIANCE WITH ATTACHED
	See Operations Plan attached	L REQUIREMENTS"
	( has /ale	12.8.00
24.	Authorized by: Regulatory/Compliance Supervisor	Date 12.000
	Regulatory/Compilance Supervisor	Date
		-
PERM	MIT NO APPROVAL D	ATE

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.

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DISTRICT I 1825 N. French Dr., Hobbs, N.M. 88240

# State of New Mexico Energy, Minerals & Natural Rosources 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 Fe, NM 87505

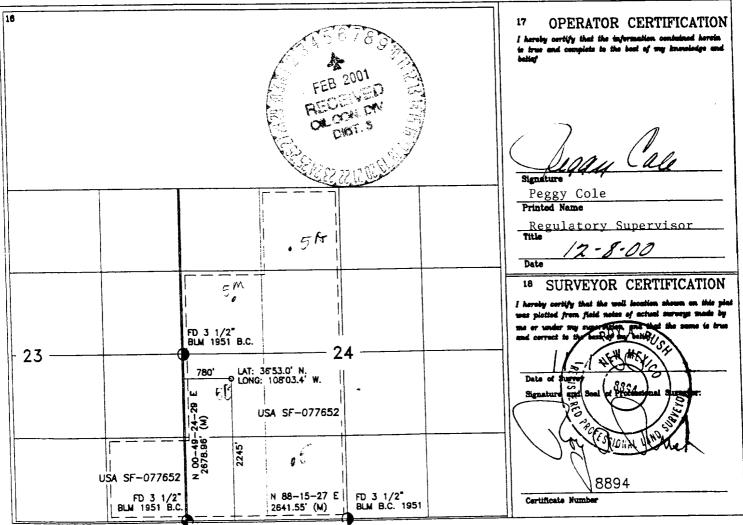
WELL LOCATION AND ACREAGE DEDICATION PLAT

01 2:05

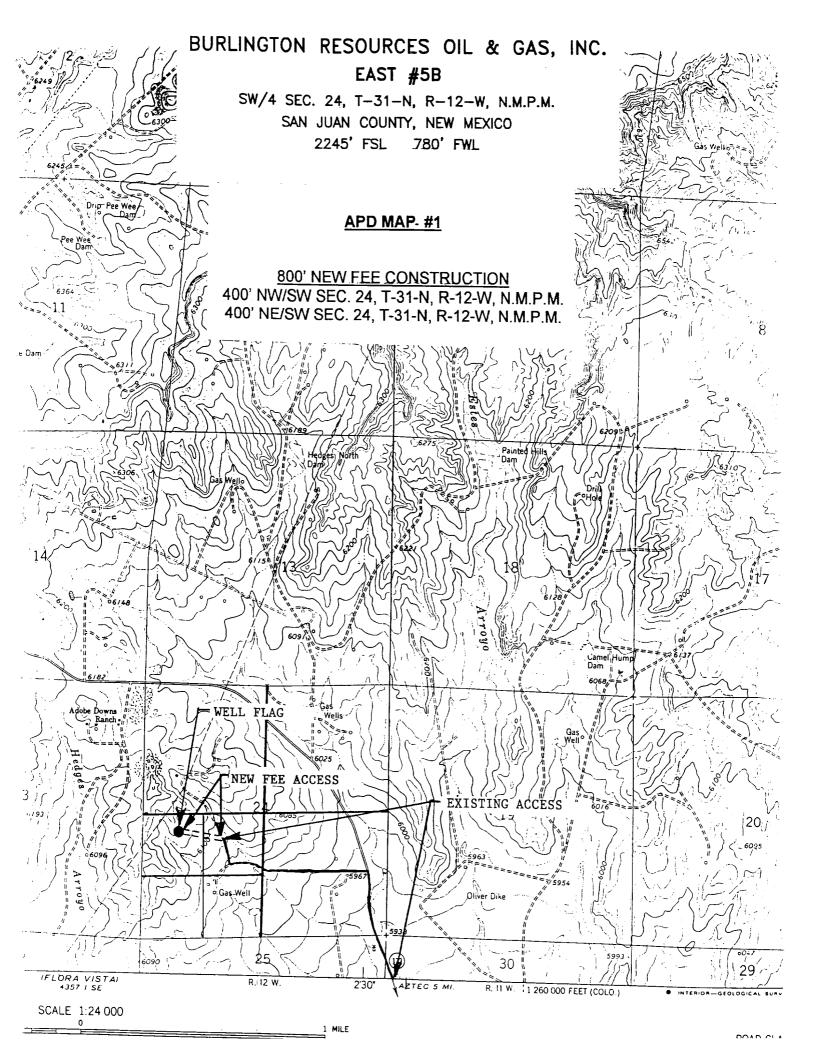
API Number	Pool Code	Pobl Name	
30-045-30464	72319	Blanco Mesaverde	
Property Code		*Property Name	* Well Number
18517	EAST		5B
OGRID No.		Operator Name	* Elevation
14538	BURLINGTON RES	SOURCES OIL AND GAS, INC.	6145'

10 Surface Location North/South line East/West line Feet from the Lot idn Feet from the County UL or lot no. Section Township Range WEST SAN JUAN SOUTH 780 24 31-N 12-W 2245 11 Bottom Hole Location If Different From Surface North/South line Rast/West line Feet from the Feet from the County UL or lot no. Section Township Range "Order No. 14 Consolidation Code 19 Joint or Infill Dedicated Acres R-NWV 37 320

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



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## OPERATIONS PLAN

Well Name:

East #5B

Surface Location:

2245'FSL, 780'FWL, Section 24, T-31-N, R-12-W

San Juan County, New Mexico

Latitude 36° 53.0'N, Longitude 108° 03.4'W

Formation:

Blanco Mesa Verde

Elevation:

6145'GR

Formation Tops:	<u>Top</u>	Bottom	<u>Contents</u>
Surface	San Jose	977'	aquifer
Ojo Alamo	977'	1017'	aquifer
Kirtland	1017'	2030'	gas
Fruitland	2030'	2632'	gas
Pictured Cliffs	2632 <b>'</b>	2797 <b>'</b>	gas
Lewis	2797 <b>'</b>	3352 <b>'</b>	gas
Intermediate TD Mesa Verde Chacra Massive Cliff House Menefee Point Lookout Total Depth	3047' 3352' 3712' 4257' 4387' 4920' 5320'	3712' 4257' 4387' 4920'	gas gas gas gas gas

## Logging Program:

Cased hole logging - Gamma Ray, Cement bond from surface to TD Open hole logging - none
Mud Logs/Coring/DST - none

## Mud Program:

Interval- MD	Type	Weight	Vis.	Fluid Loss
0- 200'	Spud	8.4-9.0	40-50	no control
200- 3047'	LSND	8.4-9.0	30-60	no control
3047- 5320'	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):

		Meası	ured				
Hol	e Size	e Deptl	h	Cso	g Size	Weight	Grade
12	1/4"	0'-	200 <b>'</b>	9 !	5/8"	32.3#	H-40
8	3/4"	0'-	3047 <b>′</b>	7"		20.0#	J <b>-</b> 55
6	1/4"	2947' -	5320'	4	1/2"	10.5#	J-55

Tubing Program: 0'-5320' 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.

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## 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 159 sx Class "B" cement with 1/4# flocele/sx and 3% calcium chloride (188 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/311 sx 50/50 Class "G"/Trinity Light with 2.5% sodium metasilicate, 2% calcium chloride, 10 pps Gilsonite, 0.5 pps Flocele. Tail with 90 sx Class "G" 50/50 poz w/2% gel, 2% calcium chloride, 5 pps Gilsonite, 0.1% antifoam and 0.25 pps Flocele (917 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.

See attached Alternative Intermediate Lead Slurry.

7" intermediate casing alternative two stage: Stage collar at 1930'. First stage: cement w/262 sx 50/50 Class "G" poz w/2% gel, 2% calcium chloride, 5 pps Gilsonite, 0.1% antifoam and 0.25 pps Flocele. Second stage: w/225 sx 50/50 Class "G"/Trinity Light with 2.5% sodium metasilicate, 2% calcium chloride, 10 pps Gilsonite, 0.5 pps Flocele (917 cu.ft. of slurry, 100% excess to circulate to surface).

#### Operations Plan - East #5B

## Page Three

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 1017'. Two turbolating centralizers at the base of the Ojo Alamo at 1017'. 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 254 sx Class "G" 50/50 poz w/4.5% gel, 0.25 pps Flocele, 5 pps Gilsonite, 0.25% fluid loss, 0.1% retardant (365 cu.ft., 50% excess to circulate liner). 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 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 Mesa Verde formation will be completed.
- No abnormal temperatures or hazards are anticipated.
- Anticipated pore pressures are as follows:

Fruitland Coal 150 psi Pictured Cliffs 260 psi Mesa Verde 375 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.
- $\bullet$  The SESE of Section 23 and the NENW, S2NW, SW of Section 24 is dedicated to the Mesa Verde.
- This gas is dedicated.

Drilling Engineer Date Date