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

1a.	Type of Work	5. Lease Number 2000 CED 26 11
	DRILL	NMSF-079391
		Unit Reporting Number
		MV-891000950A
41	A 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DK-891000950 6. If Indian, Alt. or Tribe
1b.	Type of Well	A. II Indian, Air. of The
	GAS MAY 2002	
2.	Operator	7. Unit Agreement Name
	BURLINGTON	
	RESOURCES Oil & Gas Company	San Juan 27-5 Unit
3.	Address & Phone No. of Operator	8. Farm or Lease Name
J.	PO Box 4289, Farmington, NM 87499	San Juan 27-5 Unit
	FO BOX 4209, rarmingcom, mr 0/499	9. Well Number
	(505) 326-9700	69N
	(303) 320-3100	
4.	Location of Well	10. Field, Pool, Wildcat
	1410' FSL, 1780' FEL,	Blanco MV/Basin DK
•		11. Sec., Twn, Rge, Mer. (NMPM)
	Latitude 36° 35.1, Longitude 107° 23.8	Sec. 7, T-27-N, R-5-
		API# 30-039- 26973
14.	Distance in Miles from Nearest Town	12. County 13. State
	36 miles from Blanco	Rio Arriba NM
45	Distance from Proposed Location to Nearest Property or Leas	se l ine
15.	Distance from Proposed Location to Nearest Property of Leas	De Pille
16.	Acres in Lease	17. Acres Assigned to Well
		320 E/2
18.	Distance from Proposed Location to Nearest Well, Drlg, Com	pl. or Applied for on this Lease
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19.	Proposed Depth and appeal pursuant to 43 OFR 3100.4.	20. Rotary or Cable Tools
	7810'	Rotary
		_
21.	Elevations (DF, FT, GR, Etc.)	22. Approx. Date Work will Start
	6604' GR	
23.	Proposed Casing and Cementing Program	
	See Operations Plan attached	DRILLING OPERATIONS FUTFORWED ARE
	•	SHEREAL TO TO SHELL TO THE TOTAL SHERE
		monthly Timber 2013
	(//20///20/	2-5-02
24.	Authorized by:	
	Regulatory/Compliance Superviso	r Date
	AIT NO. APPROVA	I DATE
	MILINU. AFFROYA	E 2/11
		< <u>~</u> _/ <sub>7</sub>
	ROVED BY /s/ David J. Mankiewicz TITLE	DATE 5-/3-

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 1825 M. French Dr., Hobbs, M.M. 88940

LOT 4

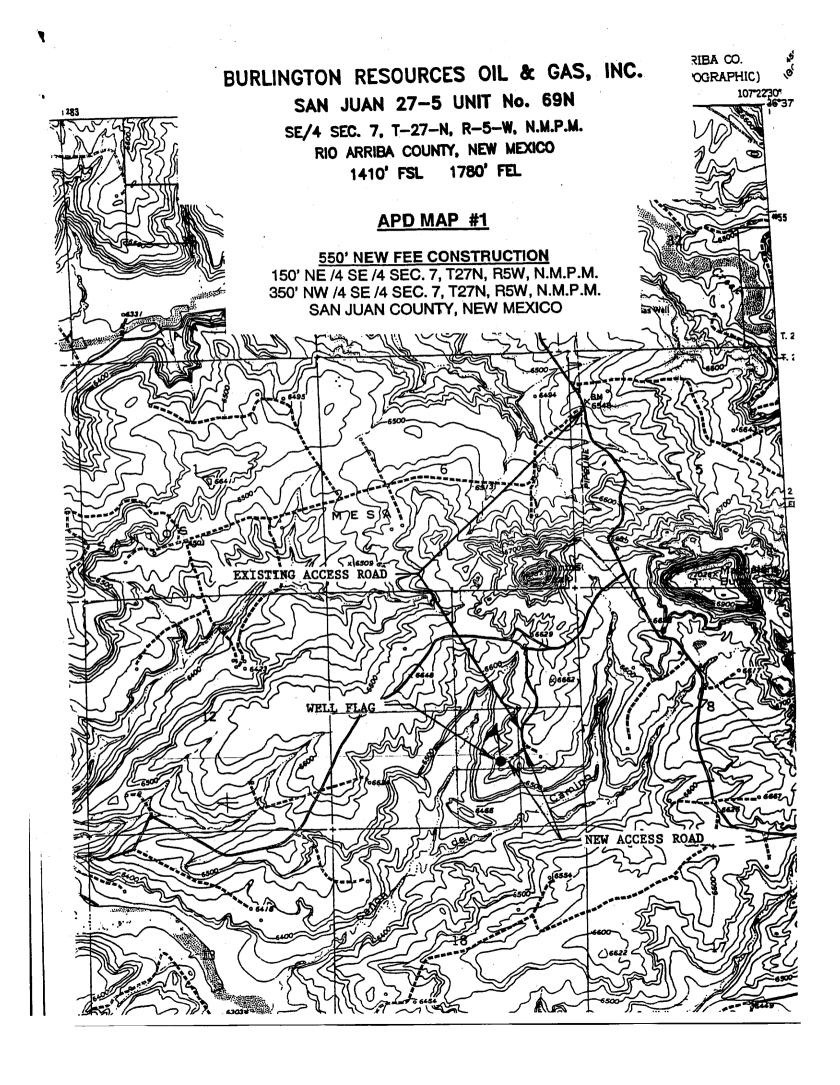
FD 3 1/4" BLM BC. 1957

# State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised August 15, 2000

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S 89-52 W FD 3 1/4" BLM 2747,43" (M) BC. 1957



#### OPERATIONS PLAN

Well Name: San Juan 27-5 Unit #69N

1410'FSL, 1780'FEL, Section 7, T-27-N, R-5-W

Rio Arriba County, New Mexico

Latitude 36° 35.1, Longitude 107° 23.8

Formation: Blanco Mesa Verde/Basin Dakota

Elevation: 6604'GL

Formation Tops:	Тор	Bottom	Contents
Surface	San Jose	2676 <b>′</b>	
Ojo Alamo	2676 <b>'</b>	2886'	aquifer
Kirtland	2886'	3176'	gas
Fruitland	3176 <b>′</b>	3391 <b>′</b>	
Pictured Cliffs	3391'	3486'	gas
Lewis	3486′	3900 <b>′</b>	gas
Intermediate TD	3586'		
Huerfanito Bentonite	3900 <b>′</b>	4331'	gas
Chacra	4331'	5041'	gas
Cliff House	5041'	5156 <b>′</b>	
Menefee	5156 <b>′</b>	5531 <b>′</b>	gas
Point Lookout	5531'	6041"	gas
Mancos	6041'	6731 <b>′</b>	gas
Gallup	6731 <b>′</b>	7469'	gas
Greenhorn	7469'	7536'	gas
Graneros	7536'	7560'	gas
Dakota	7560 <b>′</b>		gas
TD	7810'		•

### Logging Program:

Mud logs - none Open hole - none

Cased hole - CBL-CCL-GR - TD to surface

Cores - none

## Mud Program:

Inter	val	Type	Weight	<u>Vis.</u>	Fluid Loss
		Spud	8.4-9.0	40-50	no control
250-	3586"	LSND	8.4-9.0	30-60	no control
3586-	7810'	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		Wt.	Grade
12 1/4"	0' - 250'	9 5/8"	32.3#	WC-50
8 3/4"	0' - 3586'	7"	20.0#	J-55
6 1/4"	3486' - 7810'	4 1/2"	10.5#	K-55

### Tubing Program:

0' - 7810'

# 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 (Reference Figure #3). 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 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:

9 5/8" surface casing - cement with 199 sx Class "B" cement with 1/4# flocele/sx and 3% calcium chloride (235 cu.ft. of slurry, 200% excess to Test casing to 600 psi for 30 circulate to surface). WOC 8 hrs. minutes.

Saw tooth guide shoe on bottom. Bowspring centralizers will be run in accordance with Onshore Order #2.

7" intermediate casing -Lead w/373 sx 50/50 Class "G" TXI Liteweight cement with 2% calcium chloride, 2.5% sodium metasilicate, 10 pps Gilsonite and 0.5 pps Celloflake. Tail w/90 sx Class "G" 50/50 poz w/2% gel, 2% calcium chloride, 5 pps Gilsonite, 0.25 pps Celloflake (1078 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.

See attached alternative intermediate lead slurry.

7" intermediate casing alternative two stage: Stage collar 3076'. First stage: cement with w/120 sx Class "G" 50/50 poz w/2% gel, 2% calcium chloride, 5 pps gilsonite, 0.25 pps Celloflake. Second stage: 358 sx 50/50 Class "G"/TXI Liteweight with 2% calcium chloride, 2.5% sodium metasilicate, 10 pps Gilsonite, 0.25 pps Celloflake (1078 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 2886'. Two turbolating centralizers at the base of the Ojo Alamo at 2886'. 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 cover minimum of 100' of 4 1/2" x 7" overlap. Lead with 431 sx 50/50 Class "G" Poz with 5% gel, 0.25 pps Celloflake, 5 pps Gilsonite (621 cu.ft.), 40% excess to cement 4 1/2" x 7" overlap). WOC a minimum of 18 hrs prior to completing.

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

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

- Note: To facilitate higher hydraulic stimulation completion work, no liner hanger will be used. In its place, a long string of 4 1/2" casing will be run and cemented with a minimum of 100' of cement overlap between the 4 1/2" x 7" casing strings. After completion of the well, a 4 1/2" retrievable bridge plug will be set below the top of cement in the 4 1/2" x 7" overlap. The 4 1/2" casing will then be backed off above the top of cement in the 4  $1/2" \times 7"$  overlap and laid down. The 4 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 commingled.
- No abnormal temperatures or hazards are anticipated.
- Anticipated pore pressures are as follows:

300 psi Fruitland Coal 600 psi Pictured Cliffs Mesa Verde 700 psi 2500 psi Dakota

- Sufficient LCM will be added to the mud system to maintain well control, if lost circulation is encountered.
- The east half of Section 7 is dedicated to the Mesaverde and the Dakota in this well.
- This gas is dedicated.

D. Short rennan Drilling Engineer

2/7/02