UNI' ED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

19

1a.	Type of Work	5. Lease Number
	DRILL	Sr-0/9391
		Unit Reporting Number
	_	99/000950 6. If Indian, All. or Tribe
1b.	Type of Well GAS —	o. Il Illolati, All. of Tribo
	GAD —	
2.	Operator	7. Unit Agreement Name
	BURLINGTON RESOURCES Oil & Gas Company	San Juan 27-5 Unit
	RESOURCES Oil & Gas Company	Sall Suall 27-3 Offic
3.	Address & Phone No. of Operator MAY 2001	8. Farm or Lease Name
J .	PO Box 4289, Farmington, NM PA99 RECEIVED	San Juan 27-5 Unit
		9. Well Number
	(505) 326-9700 OLGONON	- <u>₹</u> ∰ 70F
	(505) 520 5700 (c) DM7. 5	10. Field, Pool, Wildcat
4.	Location of Well	Basin Dakota
	1755' FSL, 930' FEL	11. Sec., Twn, Rge, Mer. (NMPM)
	Latitude 36° 35.1, Longitude 107° 22.6	I Sec. 8, T-27-N, R-5-W
	Bucicuas of cover, congruence	API# 30-039- 266/3
		12 County 13. State
14.	Distance in Miles from Nearest Town 9 miles from Gobernador	12. County 13. State Rio Arriba NM
	9 miles from Gobernador	7144 AVA
15.	Distance from Proposed Location to Nearest Property or Lease L	ine
	930'	47 Asses Assigned to Wall
16.	Acres in Lease	17. Acres Assigned to Well 320 E/2
		J2V 11/4
18.	Distance from Proposed Location to Nearest Well, Drig. Compl.	or Applied for on this Lease
	1100' Proposed Depth	165.3
19.		20. Rotary or Cable Tools
	7955'_	Rotary
24	Elevations (DF, FT, GR, Etc.)	22. Approx. Date Work will Start
21.	6719' GR	
23.	Proposed Casing and Cementing Program	The managed William of Monaged W
	See Operations Plan attached	Will Altac
		All the second of the second o
		1- 00 00
24.	Authorized by:	10.15.00
	Regulatory/Compliance Supervisor	Date
		4/1. / .
	MIT NO. APPROVAL D	NATE 5/16/01
PERI	MIT NO APPROVAL D	

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 Box 1980, Hobbs, NM 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 PO Drawer DD, Artesia, NM 88211-0719

OIL CONSERVATION DIVISIONS PH 2: 17 State Lease - 4 Copies Fee Lease - 3 Copies

District III 1000 Rio Brazos Rd., Aztec, NM 87410

PO Box 2088 Santa Fe, NM 87504-2088

District IV PO Box 2088, Santa Fe. NM 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

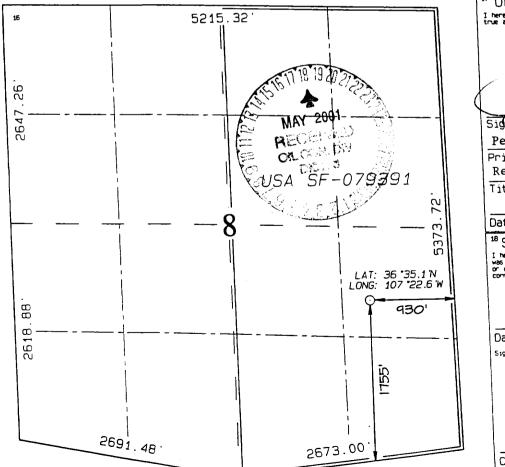
'API Number	²Pool Code	Pool Name		
30-039- 26613	71599	Basin Dakota	Well Number	
*Property Code		Property Name		
7454	SAN JU	70F		
'OGRID No.	*Op	erator Name	*Elevation	
	BURLINGTON RESOU	RCES OIL & GAS COMPANY	6719	
14538				

¹⁰ Surface Location

	UL or lot no.	Section	Township 27N	Range 5W	Lot Idn	1755	SOUTH	930	EAST	RIO ARRIBA	i
١.			11 E	ottom	Hole L	ocation I	f Different	From Surf			,
1	UL or lot no.	Section	Township	Range	Lot Ion	Feet from the	North/South line	Feet from the	East/West line	County	Į

						- 1 Disset 1:00	County
UL or lot no. Section	Township	Range Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
			1				
12 Decicated Acres	¹³ Joint on Infill	³⁴ Consolidation Code	S Order No.	11503			
DK-E/320				11002			

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



17 OP	ERAT	OR	CER	TIF	ICA	ΙT	OΝ
I hereby true and	certify complete	that the	inform best of	etion co my kno	ontained wiedge	here and b	in is elief

Peggy Cole Printed Name

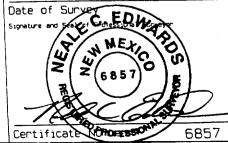
Regulatory Supervisor

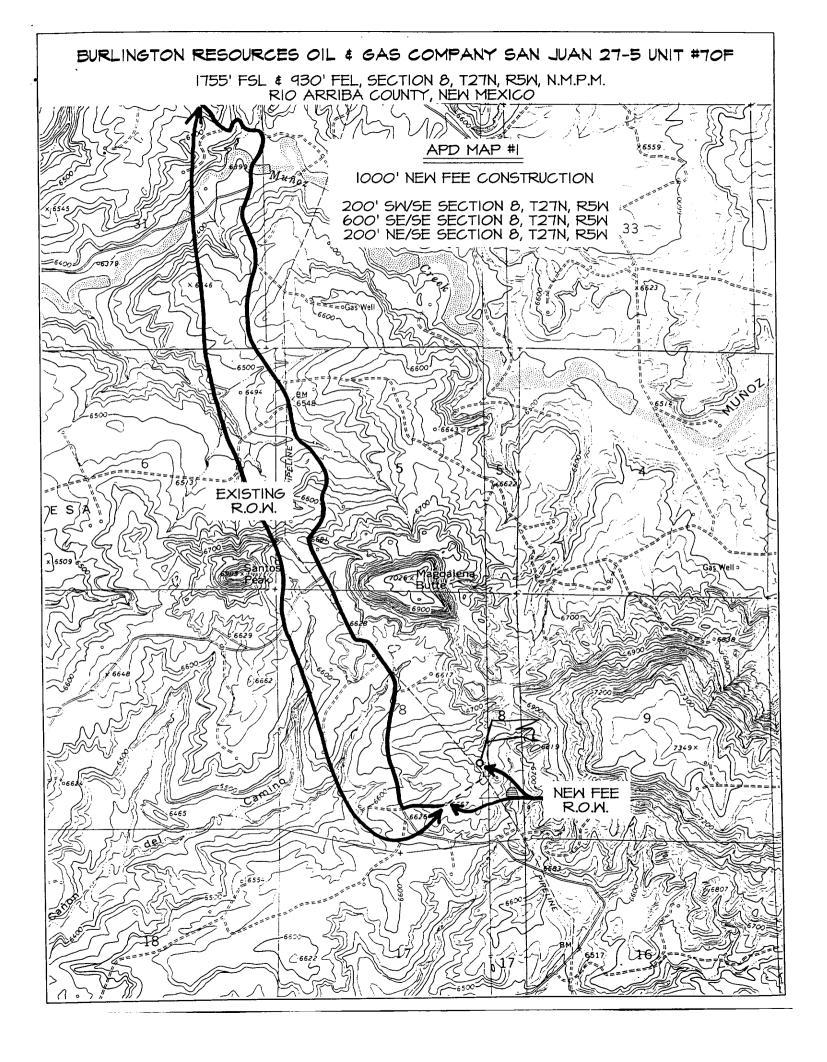
Title

Date

*SURVEYOR CERTIFICATION I hereby certify that the well location shown 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.

SEPTEMBER 20, 5000





OPERATIONS PLAN

Well Name: San Juan 27-5 Unit #70F

1755'FSL, 930'FEL, Sec 8, T-27-N, R-5-W Location:

Rio Arriba County, NM Latitude 36° 35.1, Longitude 107° 22.6

Formation: Basin Dakota

Elevation: 6719' GL

Formation Tops:	<u>Top</u>	Bottom	Contents
Surface	San Jose	2852'	
Ojo Alamo	2852 '	3020 '	aquifer
Kirtland	3020 '	3093 '	gas
Fruitland	3093 '	3518'	gas
Pictured Cliffs	3518'	3612'	gas
Lewis	3612'	4034'	gas
Intermediate TD	3712'		
Mesa Verde	4034'	4481'	gas
Chacra	4481'	5186 ′	gas
Massive Cliff House	5186'	5337 '	gas
Menefee	5337 '	5676 ′	gas
Massive Point Lookout	5676'	6185'	gas
Mancos	6185 ′	7042 ′	gas
Gallup	7042 '	7624'	gas
Greenhorn	7624'	7705 '	gas
Dakota	7705 ′		gas
TD	7955'		

Logging Program:

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

Mud Program:

Interval	Type	Weight	<u>Vis.</u>	Flui	ld Loss
0- 200'	Spud	8.4-9.0	40-50	no	control
200- 3712'	LSND	8.4-9.0	30-60	no	control
3712- 7955'	Air/Mist/N2*	n/	a	n/a	n/a

*Nitrogen might be used in conjunction with or instead of air to prevent a down hole fire.

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.	<u>Grade</u>
12 1/4"	0' - 200'	9 5/8"	32.3#	WC-50
8 3/4"	0' - 3712'	7"	20.0#	J-55
6 1/4"	3612' - 7955'	4 1/2"	10.5#	K-55

Tubing Program:

0' - 7955' 2 3/8" 4.7# J-55

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 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/340 sx Class "G" cement 3% sodium metasilicate, 2% calcium
chloride, 10 pps Gilsonite and 0.5 pps flocele. Tail w/90 sx Class
"G" 50/50 poz w/2% gel, 2% calcium chloride, 5 pps Gilsonite, 0.25 pps
Flocele (1117 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.

7" intermediate casing alternative two stage: Stage collar at 2993'. First stage: cement with w/169 sx 50/50 Class "G" poz w/2% calcium chloride, 2% gel, 5 pps gilsonite, 0.25 pps Flocele. Second stage: 305 sx Class "G" with 3% sodium metasilicate, 2% calcium chloride, 10 pps Gilsonite, 0.5 pps Flocele (1117 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 3020'. Two turbolating centralizers at the base of the Ojo Alamo at 3020'. 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 433 sx 50/50 Class "G" Poz with 5% gel, 0.25 pps flocele, 5 pps Gilsonite 0.1% retardant and 0.25% fluid loss additive (624 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 shoe joint.

If open hole logs are run, cement volumes will be based Note: 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 bloose 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 Dakota formation will be completed.
- No abnormal temperatures or hazards are anticipated.
- Anticipated pore pressures are as follows:

300 psi 600 psi 700 psi Fruitland Coal Pictured Cliffs Mesa Verde 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 8 is dedicated to the Dakota in this well.

This gas is dedicated.

Driffing Engineer Date Date