# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

RECEIVED

a.	Type of Work	5. Lease Number 200 File
	DRILL	SF-080668
	23 30311 / 23	Unit Reporting Number Farmington
<b>L</b>	Time of Moll	6 If Indian, All. or Tribe
b.	Type of Well  GAS  JUL 2004	O)
	SAN COMPANY	
2.	Operator RUBLINGTON	7. Unit Agreement Name
		<b>A</b>
	RESOURCES Oil & Gas Company	Jan Juan 27-4 Unit
	Address & Phone No. of Operator	8. Farm or Lease Name
	PO Box 4289, Farmington, NM 87499	San Juan 27-4 Unit
		9. Well Number
	(505) 326-9700	#7N
<u>.                                    </u>	Location of Well	10. Field, Pool, Wildcat
٠.	2380' FNL, 1640' FWL	Blanco Mesaverde/Basin Dakota
		11. Sec., Twn, Rge, Mer. (NMPM)
	Latitude 36° 35.3005'N, Longitude 107° 15.5287'	
		API # 30-039-
		API# 30-039- 27645
14.	Distance in Miles from Nearest Town	12. County 13. State
	19 miles to Gobernador	Rio Arriba NM
15.	Distance from Proposed Location to Nearest Property or Lease L	ine
	1640'	
16.	Acres in Lease	17. Acres Assigned to Well
		320 W/2 DK
		320 W/2 MV
18.	Distance from Proposed Location to Nearest Well, Drlg, Compl, o	r Applied for on this Lease
	1700'	
19.	Proposed Depth	20. Rotary or Cable Tools
	8319'	Rotary
21.	Elevations (DF, FT, GR, Etc.)	22. Approx. Date Work will Start
	7015' GR	and the state of t
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23.	Proposed Casing and Cementing Program	
	See Operations Plan attached	
	$\langle \cdot \rangle_{\sim} \cdot \langle \cdot \rangle_{\sim}$	21 121
24.	Authorized by: The Clark	2/4/04
	Regulatory/Compliance Specialist	Date
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**Archaeological Report attached** 

Threatened and Endangered Species Report attached

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.

MO DOX 1200' LIONDS' MA DOC-1 1000

District II

Energy, Minerals & Natural Resources Department

Hevised repruary 21, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

PO Drawer DD, Artesia, NM 88211-0719

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

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

AMENDED REPORT

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

# WELL LOCATION AND ACREAGE DEDICATION PLAT

	API Numbe	F 10		*Pool Coc	te	Pool Name						
30-039-	276	047	723	19/71599	,	Blanco M	esaverde	/Ba	sin Dako	ota		
Property	Code				*Pro	perty Name					•We:	ll Number
1254	452	SAN JUAN 27-4 UNIT							7N			
'OGRID	'OGRID No.				*Operator Name							levation
14538		,	BURLI	NGTON F	RESOURCES OIL & GAS COMPAN				NY, LP	NY, LP 7015'		7015
					<sup>10</sup> Surfa	ce Loca	tion					
UL or lot no.	Section	Township		Lot Idn	Feet from		th/South line		t from the		est line	County RIO
F	9	27N	4W		2380	\ \ \	ORTH	-	1640	WE	ST	ARRIBA
			<sup>1</sup> Bottom		_ocation		fferent		m Surf	ace		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from	the Nor	th/South line	Fee	t from the	East/We	est line	County
	1										·	
MV-W/320	5				<sup>13</sup> Joint or In	fill   <sup>34</sup> Conso	lidation Code	<sup>25</sup> Orde	r No			
DK-W/320					<u> </u>			<u>.</u>				
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#### OPERATIONS PLAN

Well Name: San Juan 27-4 Unit #7N

Location: 2380'FNL, 1640'FWL, Sec 9, T-27-N, R-4-W

Rio Arriba County, NM

Latitude 36° 35.3'N Longitude 107° 15.5'W

Formation: Blanco Mesaverde/Basin Dakota

Formation Tops:	Top	Bottom Conter	ts
Surface	San Jose	3272'	
Ojo Alamo	3272 <i>'</i>	3462'	aquifer
Kirtland	3462'	3727'	gas
Fruitland	3727 <b>′</b>	3897'	
Pictured Cliffs	3897'	3982'	gas
Lewis	3982 <b>′</b>	4447'	gas
Intermediate TD	4082'		_
Huerfanito Bentonite	4447'	4867′	gas
Chacra	4867'	5487'	gas
Upper Cliff House	5487'	5687′	
Massive Cliff House	5687'	57 <b>47</b> ′	
Menefee	57 <b>47</b> ′	6077 <b>′</b>	gas
Point Lookout	6077'	6592'	gas
Mancos	6592'	7227'	gas
Gallup	7227 <b>'</b>	7983′	gas
Greenhorn	7983'	8051'	gas
Graneros	8051'	8093'	gas
Dakota	8093'	8207'	gas
Upper Cubero	8207′	8254'	gas
Lower Cubero	8254'	8304'	gas
Oak Canyon	8304'		-
TD	8319'		

# Logging Program:

Mud Logs/Coring/DST -

Mud logs - none Coring - none DST - none

Open hole - none

Cased hole - Gamma Ray, CCL, CBL - surface to TD

#### Mud Program:

Interval	Type	Weight	Vis.	Fluid Loss
0~ 200'	Spud MUD/Air/Air Mist	8.4-9.0	40-50	no control
120- 4082'	LSND	8.4-9.0	30-60	no control
4082- 8319'	Air/Air Mist/Nitrogen	n/a	n/a	n/a

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

<u> Hole Size</u>	Depth Interval	Csg.Size Wt.	Grade
12 1/4"	0' - 200'	9 5/8" 32.3#	H-40
8 3/4"	0' - 4000'	7" 20.0#	J-55
8 3/4"	4000' - 4082'	7" 23.0#	N-80
6 1/4"	0' - 7800'	4 1/2" 10.5#	J-55
6 ¼"	7800' - 8319'	4 ½" 11.6#	N-80

Tubing Program: 0' - 8319' 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.

Operations Plan - San Juan 27-4 Unit #7N

Page Two

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 4 ½" x2 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 conventionally drilled Cement with 147 sacks Premium Lite cement with 0.25 pps Celloflake, 3% calcium
chloride. (188 cu.ft.-200% excess, bring cement to surface). Wait on cement
appropriate time until cement achieves 250 psi compressive strength at 60 degrees
F. prior to nipple up of BOPE. Wait on cement for 8 hrs for conventionally set
holes before pressure testing or drilling out from under surface.

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

7" intermediate casing Lead with 369 sacks Premium Lite cement with 3% calcium chloride, 0.25 pps
Celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate. Tail w/90
sacks Type III cmt w/1% calcium chloride, 0.25 pps Celloflake, 0.2% fluid loss (910
cu ft- 50% excess to circulate to surface.) WOC minimum of 8 hours before drilling

out intermediate casing. If cement does not circulate to surface, a CBL or a temperature survey will be run to determine TOC. Test casing to 1500 psi for 30 minutes.

7" intermediate casing alternative two stage: Stage collar set 300' above the top of the Fruitland. First stage: Lead with 11 sacks Premium Lite cmt w/3% calcium chloride, 0.25 pps Celloflake, 0.4% fluid loss, 5 pps LCM-1, 0.4% sodium metascilicate. Tail with 90 sacks with Type III cement with 1% calcium chloride, 0.25 pps Celloflake, 0.2% fluid loss. Second stage: Lead with 357 sacks with Premium Lite cement with 3% calcium chloride, 0.25 pps Celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate (910 cu. ft.-50% 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 @ 3462'. Two turbolating centralizers at the base of the Ojo Alamo 3462'. Bowspring centralizers spaced every fourth joint from the base of the Ojo Alamo to the base of the surface casing.

4 1/2" Production Casing -

Cement to cover minimum of 100' of  $4\ 1/2''$  x 7'' overlap. Cement with 291 sacks Premium Lite HS w/ 0.25 pps Celloflake, 0.3% CD-32, 6.25 pps LCM-1 and 1% FL-52. (576 cu.ft.-30% excess to cement  $4\ 1/2''$  x 7'' overlap). WOC a minimum of 18 hrs prior to completing.

Cement float collar stacked on top of float shoe.

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 air/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 and Dakota formations will be completed and commingled.
- 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 below the top of the Pictured Cliffs.
- The west half of Section 9 dedicated to the Mesa Verde and Dakota.
- This gas is dedicated.

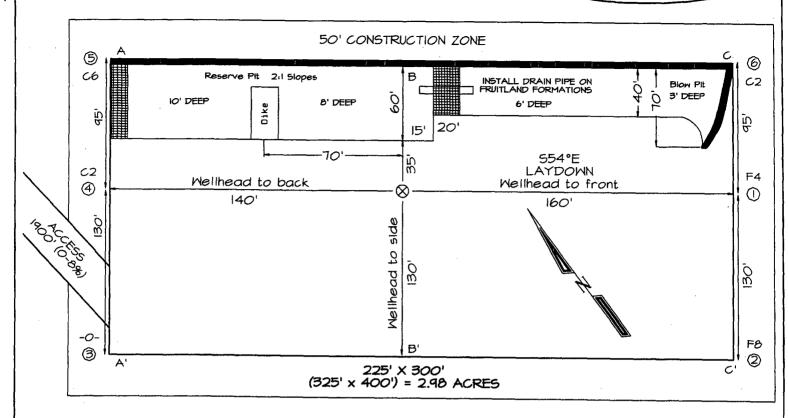
Sear Corago February 25, 2004
Date Date

Operations, 7-1/16° born, 2000 pel minimum work pressure dutating gate BOP to be equipped with this pipe rams. A stripping head to be installed on the die BOP, AS BOP equipment is 2000 pel sorting pressure or genders enduding 500 pel stripping heat stripping he

4-20-01

BURLINGTON RESOURCES OIL & GAS COMPANY, LP SAN JUAN 27-4 UNIT #7N, 2380' FNL & 1640' FWL SECTION 9, T27N, R4W, NMPM, RIO ARRIBA COUNTY, NM GROUND ELEVATION: 7015' DATE: SEPTEMBER 3, 2003

LATITUDE: 36°35'18"
LONGITUDE: 107°15'32"
DATUM: NAD1927



Reserve Pit Dike: to be 8' above Deep side (overflow - 3' wide and 1' above shallow side).

Blow Pit: overflow pipe halfway between top and bottom and to extend over plastic liner and into blow pit.

A-A'

TO25'

TO05'

TO15'

TO05'

TO05'

TO15'

TO05'

TO05'

TO05'

Note: Contractor should call One–Call for location of any marked or unmarked buried pipelines or cables on well pad and/or access road at least two (2) working days prior to construction