# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT



1a.	Type of Work DRILL	5. Lease Number 5. SF-080673
	2	Unit Reporting Number mington,
1b.	Type of Well GAS	6. If Indian, All. or Tribe
2.	Operator BURLINGTON RESCURCES Oil & Gas Company	Unit Agreement Name
<del></del>		Marie Contraction of the Contrac
3.	Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499	8. Farm or Lease Name San Juan 27-4 Unit 9. Well Number
	(505) 326-9700	#38N
4.	Location of Well	10. Field, Pool, Wildcat
	40' FSL, 2350' FWL  Latitude 36° 35.6960'N, Longitude 10	Blanco Mesaverde/Basin Dako 11. Sec., Twn, Rge, Mer. (NMPM)
	hatitude 30 33.0900 N, hongitude 10	N
		API # 30-039- 27633
14.	Distance in Miles from Nearest Town 20 miles to Gobernador	12. County 13. State Rio Arriba NM
15.	Distance from Proposed Location to Nearest Prop	erty or Lease Line
16.	Acres in Lease	17. Acres Assigned to Well 320.84 W/2 DK 320.84 W/2 MV
18.	Distance from Proposed Location to Nearest Well,	, Drlg, Compl, or Applied for on this Lease
19.	Proposed Depth 8312'	<b>20. Rotary or Cable Tools</b> Rotary
21.	Elevations (DF, FT, GR, Etc.) 7026' GR	22. Approx. Date Work will Start
23.	Proposed Casing and Cementing Program See Operations Plan attached	
24.	Authorized by: Regulatory Specialist	2-6-04 Date
PERM	IIT NO.	APPROVAL DATE
	OVED BY AM Mankiek TITLE	AFM DATE 6-28-0

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.

PO Box 1980, Hobbs, NM 88241-1980

District II PO Drawer DD. Artesia, NM 88211-0719

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

District'IV PO Box 2088, Santa Fe, NM 87504-2088 Energy, Minerals & Natural Resources Department

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

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT												
-		PI Number	/22	72214	*Pool Coo					·		
30-039- 6/63 > 72319/ Property Code				9//1599	71599 Blanco Mesaverde/Basin Dako *Property Name				ota "Well Number			
.1254 7452					SAN JUAN 27-4 UNIT					38N		
'OGRID No.			NGTON F	*Operator Name TON RESOURCES OIL & GAS COMPANY, LP			NY IP	*Elevation		evation 7026		
14538 DONE INOTON NESCONICES OF & GAS COMPANT, EP 7028												
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## OPERATIONS PLAN

Well Name: San Juan 27-4 Unit #38N

Location: 40'FSL, 2350'FWL, Sec 6, T-27-N, R-4-W

Rio Arriba County, NM

Latitude 36° 35.70'N Longitude 107° 17.53'W

Formation: Blanco Mesaverde/Basin Dakota

Formation Tops:	<u>Top</u>	Bottom Contents		
Surface	San Jose	3268′		
Ojo Alamo	3268′	3448'	aquifer	
Kirtland	3448'	3723'	gas	
Fruitland	3 <b>7</b> 23′	3888'		
Pictured Cliffs	3888'	4128'	gas	
Lewis	4128'	4488'	gas	
Intermediate TD	4228'		_	
Huerfanito Bentonite	4488′	4848'	gas	
Chacra	4848'	5458'	gas	
Upper Cliff House	5458′	5578′	•	
Massive Cliff House	5578′	5723 <b>′</b>		
Menefee	5723'	6040'	gas	
Point Lookout	6040'	6220 <b>′</b>	gas	
Mancos	6220'	7213′	gas	
Gallup	7213′	7982 <b>′</b>	gas	
Greenhorn	7982'	8048'	gas	
Graneros	8048'	8086'	gas	
Dakota	8086′	8197 <b>′</b>	gas	
Upper Cubero	8197 <b>′</b>	8246'	gas	
Lower Cubero	8246′	8297 <b>′</b>	gas	
Oak Canyon	8297 <b>′</b>		-	
TD	8312'			

## 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- 120'	Spud MUD/Air/Air Mist	8.4-9.0	40-50	no control
120- 4228'	LSND	8.4-9.0	30-60	no control
4228- 8312'	Air/Air Mist/Nitrogen	n/a	n/a	n/a

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

Hole Size	Depth Interval	Csg.Size Wt.	Grade
12 1/4"	0' - 120'	9 5/8" 32.3#	H-40
8 3/4"	0' - 4000'	7" 20.0#	J-55
8 3/4"	4000' - 4228'	7" 23.0#	N-80
6 1/4"	0' - 7800'	4 1/2" 10.5#	J-55
6 ¼"	7800' - 8312'	4 ½" 11.6#	N-80

<u>Tubing Program:</u> 0' - 8312' 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.

#### 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  $\frac{1}{2}$ " 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 -

Pre-Set Drilled Cement with 23 sx Type I, II cement with 20% flyash mixed at 14.5 ppg, 1.61 cu ft per sack yield. (37 cu ft of slurry, bring cement to surface) Wait on cement for 24 hours for pre-set holes before pressure testing or drilling out from under surface.

9 5/8" surface casing conventionally drilled - 3/3/4 Cement with 88 sacks Premium Lite cement with 0.25 pps Celloflake, 3% calcium chloride. (113 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 386 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 (947 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 27 sacks Premium Lite cmt w/3% calcium chloride, .25 pps celloflake, 5 pps LCM-1,0.4% sodium metascilicate 0.4% fluid loss. Tail w/90 Type III cmt w/1%calcium chloride, 0.25 pps Celloflake, 0.2% fluid loss. Second stage: Lead with 359 sacks with Premium Lite cement with 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate (947 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 @ 3448'. Two turbolating centralizers at the base of the Ojo Alamo 3448'. 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 281 sacks Premium Lite HS w/ 0.25 pps Celloflake, 0.3% CD-32, 6.25 pps LCM-1 and 1% FL-52. (556 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 bloose 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 320.84 acres of Section 6 is dedicated to the Mesa Verde and Dakota.
- · This gas is dedicated.

Seen long Drilling Engineer

Date 24, 2004

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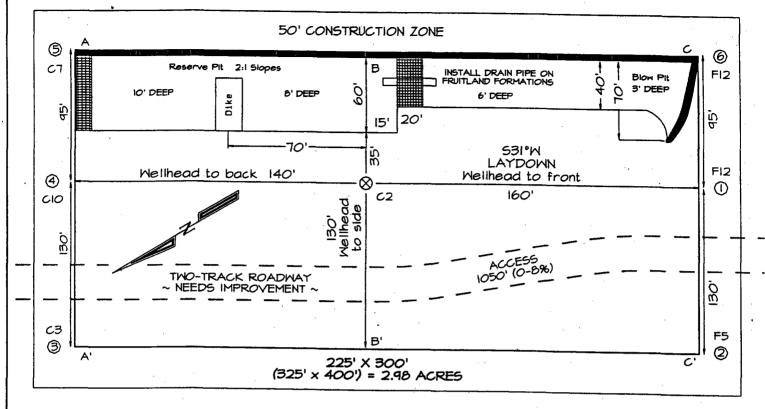
4-20-01

Figure #1

10-02-4

SAN JUAN 27-4 UNIT #38N, 40' FSL & 2350' FWL SECTION 6, T27N, R4W, NMPM, RIO ARRIBA COUNTY, NM GROUND ELEVATION: 7026' DATE: SEPTEMBER 23, 2003

LATITUDE: 36°35'42"-LONGITUDE: 107°17'32" DATUM: NADI927



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