# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

1a.	Type of Work	E Lacas Name
	DRILL	5. Lease Number 20 JUN 29 AM 6:
	<del>_</del>	Unit Reporting Number
		070 Form
1b.	Type of Well	070 Faming Lay is
	GAS	, , , , , , , , , , , , , , , , , , , ,
2.	Operator	7 Unit Agreement News
	BURLINGTON	7. Unit Agreement Name
	RESOURCES Oil & Gas Company	San Juan 30-6 Unit
3.	Address & Phone No. of Operator	8. Farm or Lease Name
	PO Box 4289, Farmington, NM 87499	San Juan 30-6 Unit
		39 Well Number
	(505) 326-9700 NCV 02	42800
	(505) 326-9700 NCV 2001	· <del>/</del> //\
4.	Location of Well	) 10. Field, Pool, Wildcat Başin Dake
	2205' FSL, 190'FWL	Blanco Mesaverde
	7.44.4. 7. 0.00	11. Sec., Twn, Rge, Mer. (NMPM)
	Latitude 36 <sup>o</sup> 48.7, Longitude 107 <sup>o</sup> 26.4	∠ Sec. 14, T-30-N, R-6-W
		API# 30-039- 74770
14.	Distance in Miles from Nearest Town	12. County 13. State
	15 miles from Gobernador	Rio Arriba NM
		KIO AIIIDA NM
15.	Distance from Proposed Location to Nearest Property or Leas	se Line
40	190'	
16.	Acres in Lease	17. Acres Assigned to Well
		320 W/2
18.	Distance from Proposed Location to Nearest Well, Drlg, Comp	ol, or Applied for on this Lease
	Proposed Deptimes action is subject to technical and	, production and and and and and and and and and an
19.		20. Rotary or Cable Tools
	and appeal pursuant to 43 CFR 3165.4.	Rotary
21.	Elevations (DF, FT, GR, Etc.)	22. Approx. Date Work will Start
	6388' GR	
		DRILLING OPERARONS AUTHORIZED ARE
23.	Proposed Casing and Cementing Program	COURT IN COMPLIANCE WITH ATTACK
	See Operations Plan attached	"GENERAL REQUIREMENTS"
	$\mathcal{L}_{\mathcal{L}}$	
24.	Authorized by:	6-28-01
- 7.	Regulatory/Compliance Supervisor	
		Date
PERM	IIT NO. APPROVAL	DATE $((/5^{-}/0))$
	OVED BY         TITLE	DATE 11/5/01

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

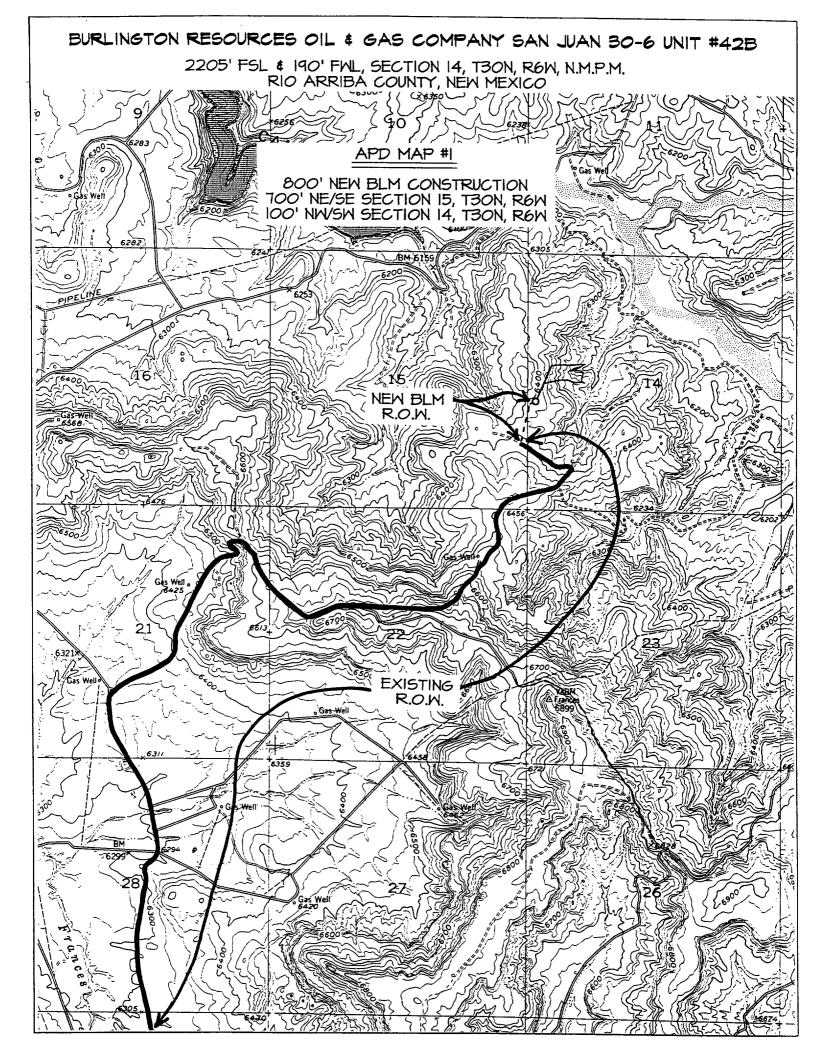
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or presentations as to any matter within its jurisdiction.

HOLD C164 FOR NSL in Basin Dakota

State of New Mexico Form C-102 District I PO Box 1980, Hobbs, NM 88241-1980 Revised February 21, 1994 Energy, Minerals & Natural Resources Department Instructions on back Suprair to Appropriate District Office District II State Lease - 4 Copies Fee Lease - 3 Copies PO Drawer DD. Artesia, NM 88211-0719 OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088EP -7 PM 3: 47 District III 1000 Rio Brazos Rd., Aztec, NM 87410 AMENDED REPORT District IV PO Box 2088, Santa Fe, NM 87504-2088 070 Farmunt in the WELL LOCATION AND ACREAGE DEDICATION PLAT Pool Name Pool Code API Number 72319 / 71599 30-039 Blanco Mesaverde/Basin Dakota Well Number Property Name Property Code SAN JUAN 30-6 UNIT 42M 7469 \*Elevation \*Operator Name 'OGRID No. BURLINGTON RESOURCES OIL & GAS COMPANY LP 63881 14538. <sup>10</sup> Surface Location East/West line County North/South line Feet from the Feet from the Lot Tdo UL or lot no. Section Township RIO 190 WEST 2205 SOUTH 30N 6W 14 ARRIBA <sup>11</sup> Bottom Hole Location If Different From Surface County Lot Idn Feet from the North/South line Feet from the East/West line Township UL or lot no. Section <sup>13</sup> Joint or Infill <sup>14</sup> Consolidation Code <sup>15</sup> Order No. Dedicated Acres DK - W/320NO 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 OPERATOR CERTIFICATION 15 5268.12 I hereby centify that the information contained herein is true and complete to the best of my knowledge and belief <u>Peggy Cole</u> Printed Name NMSF-080713-B Regulatory Supervisor Title 5280.00 9.6-01 00 Date "SURVEYOR CERTIFICATION I hereby certify that the well location shown on this p was plotted from field notes of actual surveys made by or under my supervision, and that the same is true and correct to the best of my belief. 190 LAT: 36 48.7 N LONG: 107 26.4 W MAY 15, 2001 Date of Survey

5268 12'

6857



#### UNITED STATES

# DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT



Sundry Notices and Reports on Wells 70 PM	3: 11	7
070 English	5.	Lease Number SF-080713B
2. Name of Operator	7.	Unit Agreement Name
RESOURCES OIL & GAS COMPANY  3. Address & Phone No. of Operator	8.	San Juan 30-6 Unit Well Name & Number San Juan 30-6 U #42
PO Box 4289, Farmington, NM 87499 (505) \$26-9700	9.	<b>API Well No</b> . 30-039-
4. Location of Well, Footage, Sec., T, R, M 2205'FSL, 190'FWL, Sec.14, T-30-N, R-6-W, NMPM		Field and Pool Blanco MV/Basin DK County and State Rio Arriba Co, NM
12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, O  Type of Submission  X Notice of Intent Abandonment X Change of Recompletion Recompletion Subsequent Report Plugging Back Non-Rout Casing Repair Altering Casing Conversi X Other  13. Describe Proposed or Completed Operations  It is intended to add the Dakota formation to the previousl for Permit to Drill. Attached is a new C-102 plat, out preventer diagram and facilities lay out plan. Changed from the San Juan 30-6 Unit #42B.	f Platructine I ut of on to	ans tion Fracturing  Ef o Injection  omitted Application tions plan, blow
14. I hereby certify that the foregoing is true and correct.  Signed All Title Regulatory Supervisor  no  (This space for Federal or State Office use)	Date	e 9/6/01
APPROVED BY /8/ Jim Lovato Title Date CONDITION OF APPROVAL, if any:	e <u>N</u>	10V - 5

## OPERATIONS PLAN

Well Name: San Juan 30-6 Unit #42M

Location: 2205'FSL, 190'FWL, Section 14, T-30-N, R-6-W

Rio Arriba County, New Mexico

Latitude 36° 48.7, Longitude 107° 26.4

Formation: Blanco Mesa Verde/Basin Dakota

Elevation: 6388'GL

Formation Tops:	Top	Bottom	Contents
	San Jose	2430'	
Surface			amiifor
Ojo Alamo	2430'	2525'	aquifer
Kirtland	2525 <b>'</b>	2852'	
Fruitland	2852'	3195'	gas
Pictured Cliffs	3195'	3390'	gas
Lewis	3390 <b>′</b>	4015 <b>′</b>	gas
Intermediate TD	3490'		
Huerfanito Bentonite	4015′	4380 <b>′</b>	gas
Chacra	4380'	5215'	gas
Massive Cliff House	5215 <b>'</b>	5250 <b>′</b>	gas
Menefee	5250'	5545'	gas
Point Lookout	5545'	5930 <b>′</b>	gas
Mancos	5930 <b>′</b>	6820 <b>′</b>	gas
Gallup	6820 <b>′</b>	7530 <b>′</b>	gas
Greenhorn	7530'	7575'	gas
Graneros	7575'	7715'	gas
Dakota	7715 <b>'</b>		gas
TD	7830'		

# Logging Program:

Mud logs - none
Open hole - none
Cased hole - CBL-CCL

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

Cores - none

# Mud Program:

•	11091					
	Inter	cval	Туре	Weight	<u>Vis.</u>	Fluid Loss
	0-	300'	Spud	8.4-9.0	40-50	no control
	300-	3490'	LSND	8.4-9.0	30-60	no control
	3490-	7830'	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	Csg.Size	<u>Wt.</u>	Grade
12 1/4"	0' - 300'	9 5/8"	32.3#	WC-50
8 3/4"	0' - 3490'	7"	20.0#	J-55
6 1/4"	3390' - 7830'	4 1/2"	10.5#	K-55

#### Tubing Program:

0' - 7830' 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 239 sx Class "B" cement with 1/4# flocele/sx and 3% calcium chloride (282 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/362 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 (1049 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 2752'. First stage: cement with w/173 sx Class "G" 50/50 poz w/2% gel, 2% calcium chloride, 5 pps gilsonite, 0.25 pps Celloflake. Second stage: 321 sx 50/50 Class "G"/TXI Liteweight with 2% calcium chloride, 2.5% sodium metasilicate, 10 pps Gilsonite, 0.25 pps Celloflake (1049 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 2525'. Two turbolating centralizers at the base of the Ojo Alamo at 2525'. 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  $1/2" \times 7"$  overlap. Lead with 443 sx 50/50 Class "G" Poz with 5% gel, 0.25 pps Celloflake, 5 pps Gilsonite (638 cu.ft.), 40% excess to cement 4  $1/2" \times 7"$  overlap). WOC a minimum of 18 hrs prior to completing.

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

Note: 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" x 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:

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.
- The west half of Section 14 is dedicated to the Mesaverde and Dakota in this well.
- This gas is dedicated.

Drilling Engineer

9/7/2001 Date