UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

1a.	Type of Work 204 14 23 16 1: 37	5. Lease Number			
	DRILL	NMSF-079367			
	$G_{i,j}^{*}$, $G_{i,j}^{*}$, $G_{i,j}^{*}$	Unit Reporting Number			
		MV-891000950A DK-891000950			
1b.	Type of Well	6. If Indian, All. or Tribe			
· W.	GAS	or in maining rate of 11150			
2.	Operator	7. Unit Agreement Name			
	RESOURCES Oil & Gas Company	San Juan 27-5 Unit			
3.	Address & Phone No. of Operator	8. Farm or Lease Name			
	PO Box 4289, Farmington, NM 87499 MAY 2004	San Juan 27-5 Unit			
	(505) 326-9700	166M			
4.	Location of Well	19. Field, Pool, Wildcat			
	660' FSL, 995' FEL	Blanco MV/Basin Di			
	70767V	11. Sec., Twn, Rge, Mer. (NMPM)			
	Latitude 36° 31.5, Longitude 107° 25 17 97 97	$^{\text{P}}$ Sec. 31, T-27-N, 1 API# 30-039- $270/7$			
14.	Distance in Miles from Nearest Town	12. County 13. Stat			
	15 miles from Gobernador	Rio Arriba NM			
15.	Distance from Proposed Location to Nearest Property or Lease 660'	Line			
16.	Acres in Lease	17. Acres Assigned to Well 320 E/2			
18.	Distance from Proposed Location to Nearest Well, Drig, Compl	or Applied for on this Lease			
	900'	, ,			
19.	Proposed Depth This action is subject to technical and procedural review oursunable of 0.50 percentage.	20. Rotary or Cable Tools			
13.	Proposed Depth 7598' procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4	Rotary			
21.	Elevations (DF, FT, GR, Etc.)	22. Approx. Date Work will Star			
	6521' GR	DRILLING OPERATIONS AUTHORIZED AR			
	Daniel Carine and Carachia D	SUBJECT TO COMPLIANCE WITH ATTACK "GENERAL REQUIREMENTS".			
23.	Proposed Casing and Cementing Program See Operations Plan attached	GENERAL REQUIREMENTS .			
24.	Authorized by:	/2-/z·0/			
- -	Regulatory/Compliance Supervisor	Date			
PERM	IIT NO APPROVAL	DATE			

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

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

State of New Mexico Energy, Minerals & Natural Resources Department

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

Form C-102 Revised February 21, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

				WELL	LOCAT	ON AND	ACREA	E DED	CAT:	ION PL	AT		
	¹A	PI Number			Pool Cod	te		 -		Pool Name	2		
	<u>-039-</u>	270	/ /	7231	9/71599	B1	anco M	esaverd	e/Bas	in Dako	ta		
i	roperty	Code			. 5	Proper AN JUAN	ty Name	UNTT		+ v*	·		11 Number 166M
/4	'OGRID N	va.	<u> </u>				or Name						levation
14	538		В	URLING	STON RI	ESOURCES		S GAS	сомБ				
	<u>.</u>			/	\	¹⁰ Surface							
uo	r lot no.	Section 31	Township 27N	Range 5	Lot 10th	Feet from the	1	VSouth line	1	from the		ST	County RIO ARRIBA
				ottom		ocation		fferent		m Surf	ace		<u> </u>
u	r lot no.	Section	Township	Range	Lot Idn	Feet from the	Nort	h/South line	Feet	from the	East/W	est line	County
MV-	cated Acres -E/320		· · · · · · · · · · · · · · · · · · ·			¹³ Joint or Infil	1 ¹⁴ Consol	idation Code	³⁵ Order	No.	L		<u> </u>
	-E/320							<u> </u>	<u> </u>		<u>.</u>		
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44.			CONTRIB WAS		· .				Signature Cale				
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UNITED STATES

	DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT		
	Sundry Notices and Reports on Wells		
	2004 FEB 23 PM 4: 00	5.	Lease Number NMSF-079367
1.	Type of Well O70 Farmington, NM	6.	If Indian, All. or Tribe Name
	No. 15 October 1	7.	Unit Agreement Name
2.	Name of Operator BURLINGTON		
	RESCURCES OIL & GAS COMPANY LP		San Juan 27-5 Unit
2	Address & Phone No. of Operator	8.	Well Name & Number San Juan 27-5 U #166M
٥.	PO Box 4289, Farmington, NM 87499 (505) 326-9700	9.	API Well No.
4.	Location of Well, Footage, Sec., T, R, M	10.	30-039- 27017 Field and Pool
••	660'FSL, 995'FEL, Sec.31, T-27-N, R-5-W, NMPM		Blanco MV/Basin DK
		11.	County and State Rio Arriba Co, NM
	Subsequent Report Plugging Back Non-Rou Casing Repair Water S Final Abandonment Altering Casing Convers X Other -	hut o	
13.	Attached is a revised operations plan for the subject well	MAY 20	04
		<u> </u>	

14. I hereby certify that the foregoing is true and cor	rect.	
Signed Array Oltmanns Title Senior Staff Spec	cialist	Date 2/18/04
(This space for Federal or State Office use) APPROVED BY CONDITION OF A STOCK LIMINGS TITLE	Date	MAY - 7 2004

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

OPERATIONS PLAN

Well Name: San Juan 27-5 Unit #166M

Location: 660'FSL, 995' FEL, Section 31, T-27-N, R-5-W

Rio Arriba County, New Mexico

Latitude 36° 31.5, Longitude 107° 23.7

Formation: Blanco Mesa Verde/Basin Dakota

Elevation: 6521'GL

Formation Tops:	<u>Top</u>	Bottom	Contents
Surface	San Jose	2498'	
Ojo Alamo	2498 '	2718'	aquifer
Kirtland	2718'	2869'	gas
Fruitland	2869 '	3173 ′	
Pictured Cliffs	3173'	3273'	gas
Lewis	3273 ′	3638 ′	gas
Intermediate TD	3373′		
Huerfanito Bentonite	3638 ′	4138'	gas
Chacra	4138'	4833'	gas
Cliff House	4833'	4953′	
Menefee	4953'	5353 ′	gas
Point Lookout	5353'	5793 ′	gas
Mancos	5793 ′	6497 '	gas
Gallup	6497 '	7283 ′	gas
Greenhorn	7283'	7343'	gas
Graneros	7343'	7373'	gas
Dakota	7373 ′	7598 ′	gas
Oak Canyon	7598 ′		
TD	7598′		

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- 3373 ′	LSND	8.4-9.0	30-60	no control
3373- 7598 ′	Air/Air Mist/Nitrogen	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	Wt.	Grade
12 1/4"	0' - 120'	9 5/8"	32.3#	H-40
8 3/4"	0' - 3373 '	7 "	20.0#	J-55
6 1/4"	0' - 7598'	4 1/2"	10.5#	J-55

Tubing Program: 0' - 7598' 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 1/2" x 2 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 24 sacks Type I, II cement with 20% flyash mixed at 14.5 ppg, 1.61 cu ft per sack yield. (38 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. Test casing to 600 psi for 30 minutes.

9 5/8" surface casing conventionally drilled -

Cement with 88 sacks Type III 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 296 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 (754 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, 0.25 pps Celloflake, 0.4% fluid loss, 5 pps LCM-1, 0.4% sodium metasilicate. Tail with 90 sacks with Type III cement with 1% calcium chloride, 0.25 pps Celloflake, 0.2% fluid loss. Second stage: cement with 269 sacks with Type III cement with 1% calcium chloride, 0.25 pps Celloflake, 0.2% fluid loss (754 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 @ 2718'. Two turbolating centralizers at the base of the Ojo Alamo 2718'. 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/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. (577 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 formation 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 east half of Section 31 is dedicated to the Mesa Verde and the Dakota in this well.
- This gas is dedicated.

Dean Corrigion February 20, 2004
Date

BURLINGTON RESOURCES

Burlington Resources

Drilling Rig 3000 psi System

POO PLOOR

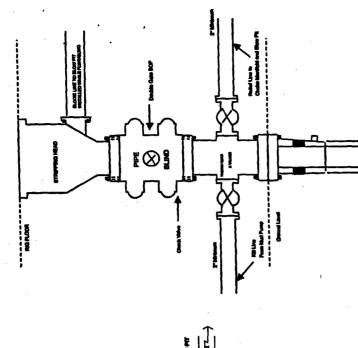
DOUBLE GATE

TRULAPING

Choke Manifold Configuration 3000 pei System

Completion/Workover Rig BOP Configuration 3,000 pel System

BURLINGTON RESOURCES



esure double gate BOP to be equipped with blind and ipe rams. A stripping head to be installed on the top of Operations. 7-1/16" bore, 3000 psi minimum working Minimum BOP installation for all Completion/Workove pressure or greater excluding 500 psi stripping head. the BOP. All BOP equipment is 3000 pel working

Figure #3

Figure #1

4-20-01

Figure #2

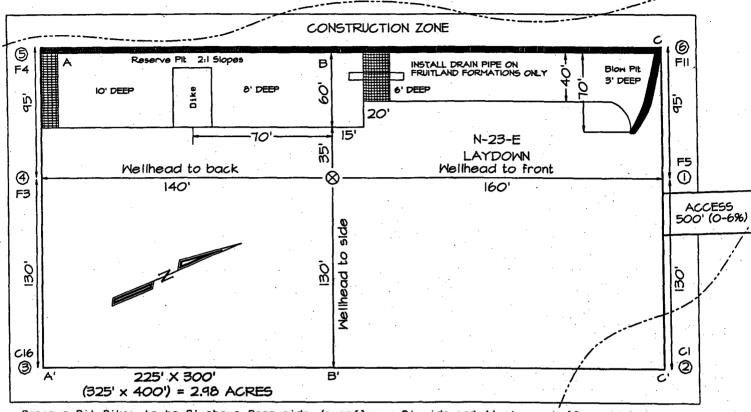
equipment with two chokes.

Choke manifold installation from Surface Casing Point to Total Depth. 3,000psi working pressure 4-20-01

BURLINGTON RESOURCES OIL & GAS COMPANY
SAN JUAN 27-5 UNIT #166M, 660' FSL & 995' FEL
SECTION 31, T27N, R5W, NMPM, RIO ARRIBA COUNTY, NM
GROUND ELEVATION: 6521' DATE: SEPTEMBER 1, 2011

LATITUDE: 36°31'32"
LONGITUDE: 107°23'39"

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'

6531'

6521'

6531'

6531'

6521'

6511'

C-C'

6531'

6511'

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