UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

	APP	LICATION FOR PERMIT TO DRILL, DE	Decide De
1a.	Type of Work DRILL	7005 JUL 32 PM 2 37 RECEIVED	5. Lease Number NMSF-079391 Unit Reporting Number
1b.	Type of Well GAS	070 FARMINGTON NM	6. If Indian, All. or Tribe
2.	Operator BURLINGTO	NI	7. Unit Agreement Name
	RESOURCE	Oil & Gas Company	San Juan 27-5 Unit
3.	Address & Phone PO Box 4289	No. of Operator , Farmington, NM 87499	8. Farm or Lease Name San Juan 27-5 9. Well Number
	(505) 326-9	700	#163N
4. H	Location of Well Unit F (SENW)	, 1955' FNL, 2145' FWL	10. Field, Pool, Wildcat Blanco Mesaverde/ Basin Dakota
/	Latitude 36°		11. Sec., Twn, Rge, Mer. (NMPM) Sec. 18, T27N, R5W
	Longitude 107	24.1048'W	API# 30-045: 39-29609
14.		rom Nearest Town obernador, NM	12. County 13. State San Juan NM KIO AM Da
15.	Distance from Pro	posed Location to Nearest Property or Lea	
16.	Acres in Lease		17. Acres Assigned to Well 321.08 W/2 MV/DK
18.		posed Location to Nearest Well, Drlg, Com an 27-5 Unit 163M	npl, or Applied for on this Lease
19.	Proposed Depth 7640'	un 27 5 diffe 103h	20. Rotary or Cable Tool Rotary
21.	Elevations (DF, FT 6443' GL	, GR, Etc.)	22. Approx. Date Work will Start
23.		and Cementing Program ons Plan attached	
24.	Authorized by:	Amanda Sandaua egulatory Compliance Assistant	8-1-05 Date
PERM	MIT NO.	APPROV	AL DATE
APPR	ROVED BY	TITLE Acting	DATE 8/31/05
Archa	aeological Report atta	ched	

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 fraudulint statements or presentations as to any matter within its jurisdiction.

DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPANIE MATTACHED

This action is subject to technical and

JIANGE WITH ATTACHED IREMENTS".

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 State Lease - 4 Copies Fee Lease - 3 Copies

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

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

1000 Rio Brazos Rd., Aztec, NM 87410

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

MV/DK-321.08--W/2

17 AMENDED REPORT 2005 JUL 32 PM 2

RECEIVED LOCATION AND ACDEACE APPORATIONS DUADE LICTURE

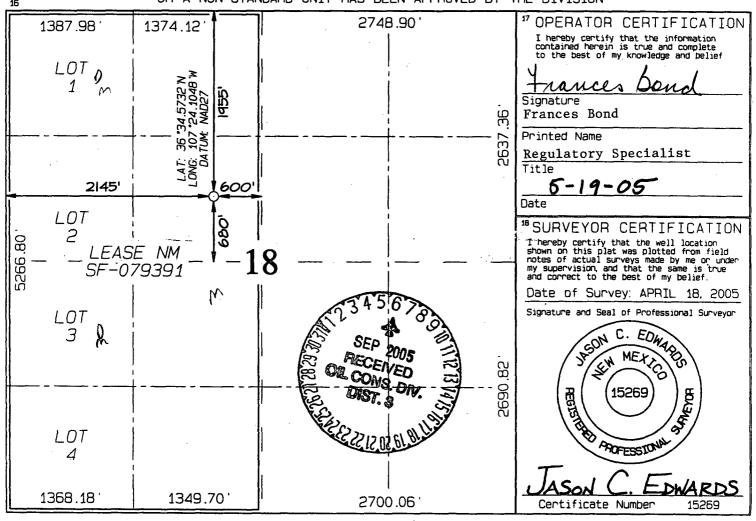
'API Number 30-039			7231	*Pool Cod 9/71599		Pool Name Blanco Mesaverde/Basin Dakota					
'Property Code 7454				Property Name SAN JUAN 27-5 UNIT					11 Number 163N		
'OGRID No. 14538			BURLI	NGTON R		Operator Name **Elevation RCES OIL & GAS COMPANY, LP 6443					
				1	¹⁰ Surfac	e L	ocation				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from ti	he	North/South line	Feet from the	East/West	t line	County
F	18	27N	5W		1955		NORTH	2145	WES	ST	RIO ARRIBA
		11 E	ottom	Hole L	ocation	If	Different	From Surf	ace		
UL or lat no.	Section	Township	Range	Lot Idn	Feet from t	he	North/South line	Feet from the	East/West	t line	County

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

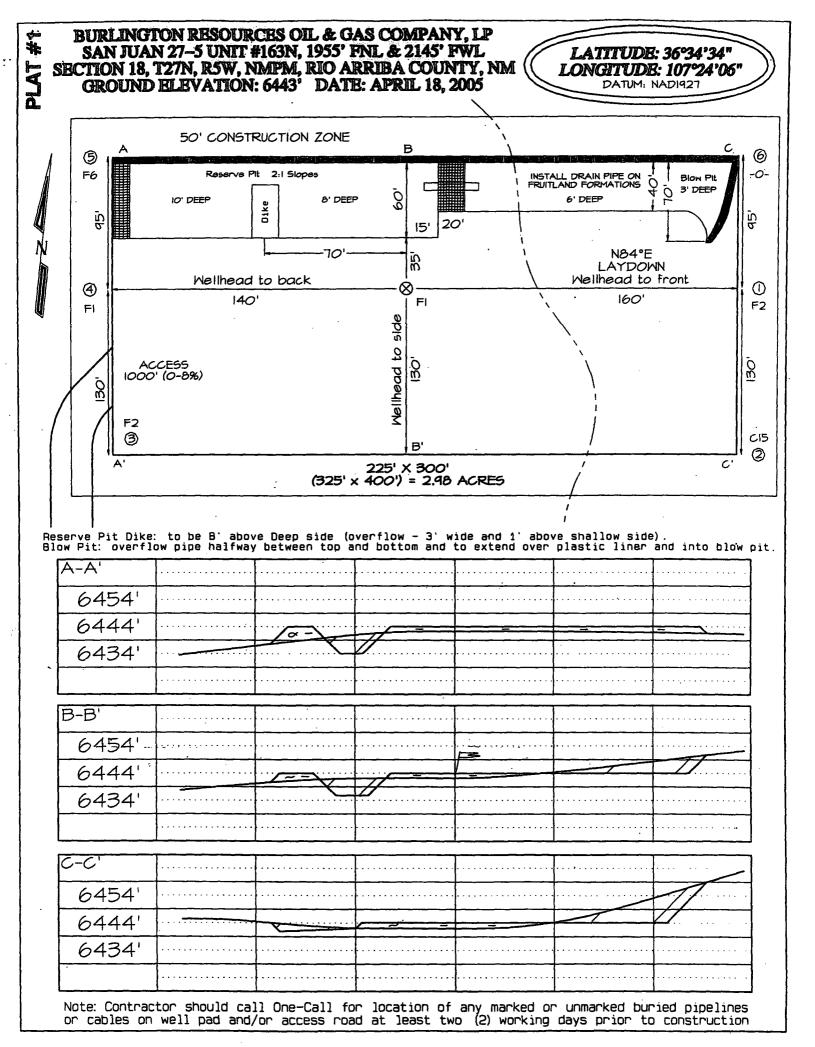
¹⁴ Consolidation Code

⁵⁵ Order No.

13 Joint or Infill



Office Opposition Appropriate District	State of New Mexico		Form C-103
District I	Energy, Minerals and Natural Resour		May 27, 2004
1625 N. French Dr., Hobbs, NM 88240		WELL API NO.	
<u>District II</u> 1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION DIVISION	ON 5. Indicate Type of Lease	
District III	1220 South St. Francis Dr.	STATE FEE	
1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe, NM 87505	6. State Oil & Gas Lease No.	
District IV	Sama PC, INVI 87303	NMSF-079391	i i
1220 S. St. Francis Dr., Santa Fe, NM 87503			
	S AND REPORTS ON WELLS O DRILL OR TO DEEPEN OR PLUG BACK TO A	7. Lease Name or Unit Agreement Nam	e
DIFFERENT RESERVOIR. USE "APPLICATION		San Juan 27-5 Unit	
PROPOSALS.)			
1. Type of Well:		8. Well Number	
Oil Well Gas Well X	Other	163N	
2. Name of Operator BURLINGTON RESOL	JRCES OIL & GAS COMPANY LP	9. OGRID Number 14538	
3. Address of Operator	ARCES OIL & GAS COMEANT EI	10. Pool name or Wildcat	
3401 E. 30TH STRE	EET, FARMINGTON, NM 87402	Blanco Mesaverde/Basin Da	kota
4. Well Location			
Unit Letter F 19 Section 18	255 feet from the <u>North</u> line an Township 27N Range		line io Arriba
	Elevation (Show whether DR, RKB, RT, GR, etc.		10 F11102
	6443'		
Pit or Below-grade Tank Application	or Closure		
Pit typeNew DrillDepth to Groundwa	ter >100' Distance from nearest fresh water wel	>1000' Distance from nearest surface wat	er >1000'
Pit Liner Thickness: 12	mil Below-Grade Tank: Volume	bbls; Construction Material	
12. Check A	ppropriate Box to Indicate Nature of	Notice, Report or Other Data	
NOTICE OF IN		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK	I	EDIAL WORK ALTERING	_
TEMPORARILY ABANDON		IMENCE DRILLING OPNS. P AND A	
PULL OR ALTER CASING	MULTIPLE COMPL CASI	ING/CEMENT JOB	
			
OTHER: New I	xill X OTH	ER:	
			te
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OPERATIONS PLAN

Well Name:

SAN JUAN 27-5 UNIT 163N

Location:

1955' FNL & 2145' FWL, Section 18 T27N R05W

Rio Arriba County, New Mexico

Formation:

Blanco Mesaverde/Basin Dakota

<u>Elevation:</u>

6443' GL

Formation Tops:	<i>Top</i>	Bottom	<u>Contents</u>
Surface	San Jose	2600'	
Ojo Alamo	2600'	2695'	aquifer
Kirtland	2695'	3027'	gas
Fruitland Coal	3027 '	3207 '	gas
Pictured Cliffs	3207'	3295'	gas
Lewis	3295'	3705'	
Huerfanito Bentonite	3705'		
Chacra	4145'	4865'	gas
Massive Cliff House	4865'	4975	gas
Menefee	4975'	5350'	gas
Massive Point Lookout	5350'	5857 '	gas
Mancos Shale	5857 '	6546'	
Upper Gallup	6546'	7298'	gas
Greenhorn	7298'	7360'	gas
Graneros	7360'	7386'	gas
Two Wells	7386'	7 511 '	gas
Upper Cubero	7511'	7553'	gas
Lower Cubero	7553'	7633'	gas
Oak Canyon	7633'	7640'	gas
Encinal	7640'	7640'	gas
Total Depth:	7640'		gas

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:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Vis.</u>	<u>Fluid Loss</u>
0 - 120'	Spud MUD/Air/Air Mist	8.4 - 9.0	40 - 50	no control
120 - 3395'	LSND	8.4 - 9.0	30 - 60	no control
3395 - 7640 ′	Air/Air Mist/Nitrogen	n/a	n/a	n/a

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

<u> Hole Size</u>	<u>Depth Interval</u>	<u>Csq.Size</u>	<u>Wt.</u>	<u>Grade</u>
12 1/4"	0' - 120'	9 5/8"	32.3#	H-40
8 3/4"	0' - 3395'	7"	20/23#	J-55
6 1/4"	0' - 7640'	4 1/2"	10.5#	J-55

Tubing Program:

<u>Depth Interval</u>	<u>Csg.Size</u>	<u>Wt.</u>	<u>Grade</u>
0' - 7640'	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 ½" 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 23 sx 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.

Conventionally Drilled - Cement with 88 sx Type III cement with 0.25 pps Celloflake, 2% CaCl. (113 cu ft of slurry, 200% excess, bring cement to surface) Wait on cement for 8 hrs for conventionally set holes before pressure testing or drilling out from under 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. 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 with 298 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 (759 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 w/12 sacks Premium Lite cement with 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss. Tail w/90 Type III cmt w/1% calcium chloride, 0.25 pps Celloflake, 0.2% fluid loss. Second stage: 286 sacks Premium Lite cement with 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate (759 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 @ 2695'. Two turbolating centralizers at the base of the Ojo Alamo @ 2695'. 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 -

Pump 292 sxs Premium Lite HS FM w/0.25 pps celloflake, 0.3% CD-32, 6.25 pps LCM-1, 1% fluid loss, 6% gel, 7 pps CSE (578 cu.ft., 30% excess to achieve 100' overlap in 4-1/2" x 7" annulus). WOC a minimum of 18 hrs prior to completing.

Cementing: Continued

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	2000 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 18 is dedicated to the Mesa Verde formation and Dakota formation.
- This gas is dedicated.

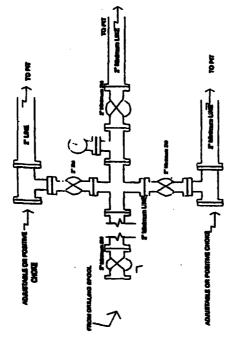
Jan Milling Engineer Date

Orithing Rig Choke Manifold Configuration 2000 pel System

Burlington Resources

2000 psi System

Dritting Rig



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DOVELS GATE

Traine Line

Choke menifold installation from Surface Cesting Point to Total Depth. 2,000pal working pressure equipment with two chokes.

Figure #3

4-20-01

Figure #1

ssure double gate BOP to be equipped with bilind and pe rama. A stripping head to be installed on the top of pressure or greater excluding 500 pel chipping head. erations. 7-1/16" bors, 2000 pel minimum worki Minimum BOP installation for all Compisition-Work the BOP. All BOP equipment is 2000 pel working Figure #2

4-20-01