# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

в.	Type of Work	5. Lease Number RECEIVED
	DRILL STEEL	Unit Reporting Number FARMINGTO
b.	Type of Well	6. If Indian, All. or Tribe
	GAS FEB 2006 AS RECEIVED A	
2.	Operator BURLINGTON DIST. 3	7. Unit Agreement Name
	RESOURCES Oil & Gas Company	San Juan 27-4 Unit
3.	Address & Phone No. of Operator	8. Farm or Lease Name
	PO Box 4289, Farmington, NM 87499	San Juan 27-4 9. Well Number
	(505) 326-9700	#43N
4.	Location of Well	10. Field, Pool, Wildcat
	Unit B (NWNE), 435' FNL, 2215' FEL	Blanco Mesaverde/ Basin Dakota
	Latitude 36° 34.7535'N	11. Sec., Twn, Rge, Mer. (NMPM) § Sec. 17, T27N, R4W
	Longitude 107° 16.3212'W	
		API# 30-039- 29803
14.	Distance in Miles from Nearest Town	12. County 13. State
	17 miles to Gobernador, NM	Rio Arriba NM
15.	Distance from Proposed Location to Nearest Property or Lease Lir	ne
16.	Acres in Lease	17. Acres Assigned to Well
		320 E/2 MV/DK
18.	Distance from Proposed Location to Nearest Well, Drlg, Compl, or	Applied for on this Lease
19.	1110'- San Juan 27-4 Unit 16Y Proposed Depth	20. Rotary or Cable Tool
. • .	7980'	Rotary
21.	Elevations (DF, FT, GR, Etc.) 6676'GL	22. Approx. Date Work will Start
23.	Proposed Casing and Comenting Program See Operations Plan attached	
24	1 - 2 1 0	2-6- N-
24.	Authorized by: Authorized by: Regulatory Compliance Assistant II	2-6-06 Date
PERMI	IT NO. APPROVAL D.	ATE .
	OVED BY AMOUNTED AFM	DATE 2/24/66
		, DATE ////////

Archaeological Report attached

Threatened and Endangered Species Report attached

This action is subject to formical and procedural review pursuant to 40 FFB greets and appeal pursuant to 40 FFB greets.

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 90 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

Form C-10≥ Revised February 21, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies

OIL CONSERVATION DIVISION PO Box 2088

Fee Lease - 3 Copies

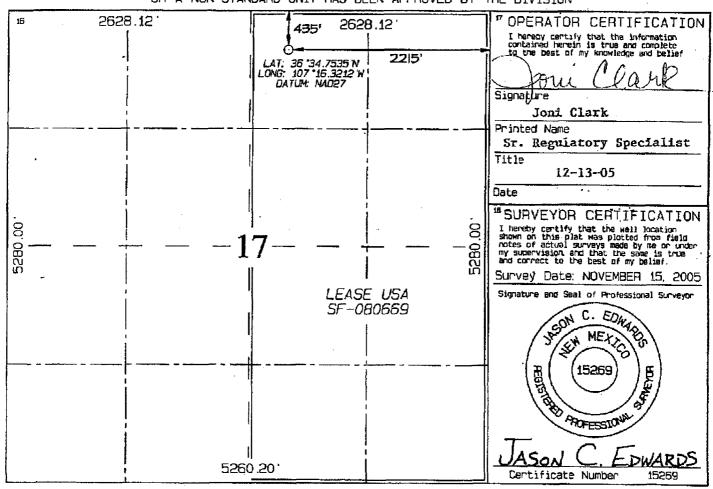
Santa Fe, NM 87504-2088 FEB 7 PM 4 18

AMENDED REPORT 070 FARMINGTON NM

# WELL LOCATION AND ACREAGE DEDICATION PLAT

30-039- 29803			7:	2319/71!		Blanco Mesa	Pool Nam verde/Basin		
'Property Code 7452			*Propert SAN JUAN	•		•₩	ell Number 43N		
'OGRID 1 14538	<b>δ</b> Ο.		BURLI	NGTON I	"Operator Name" "Elevation GTON RESOURCES OIL & GAS COMPANY, LP 6676"				
					<sup>10</sup> Surface	Location			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West lune	County
В	17	27N	4W		435	NORTH	2215	EAST	ARRIBA
		11 B	ottom	Hole l	ocation I	f Different	From Surf	ace	
U_ or lat no.	Section	Township	Ranga	Lat Idn	Feet from the	North/South line	Feet from the	East/Mest line	County
<sup>2</sup> Decirated Acres				<u> </u>	<sup>19</sup> Joint or Infill	<sup>14</sup> Consellication Code	<sup>25</sup> Order No.		
图/2 3	20 acre	es MV/DK			1				

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

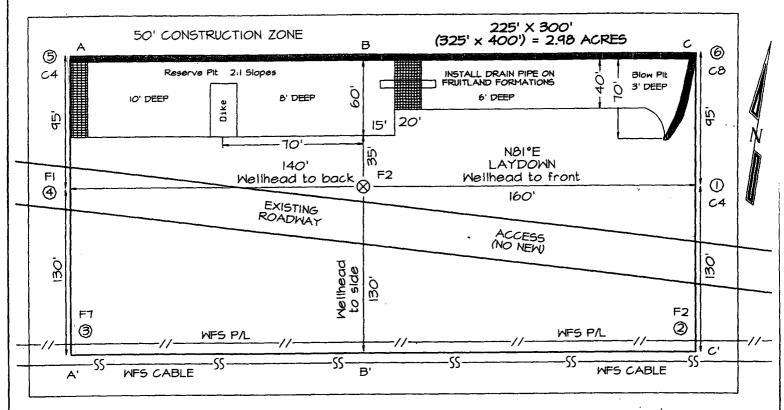


Submit 3 Copies To Appropriate District Office	State of New Mexico	Form C-103			
District I	Energy, Minerals and Natural Resources	May 27, 2004			
1625 N. French Dr., Hobbs, NM 88240 District II		WELL API NO. 30-039- 29803			
1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION DIVISION	5. Indicate 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 1220 S. St. Francis Dr., Santa Fe, NM 87505	j	NMSF-080669			
SUNDRY NOTICE	S AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name			
(DO NOT USE THIS FORM FOR PROPOSALS T DIFFERENT RESERVOIR. USE "APPLICATION	O DRILL OR TO DEEPEN OR PLUG BACK TO A	See June 27 A Visit			
PROPOSALS.)	FOR FERMIT (FORM C-101) FOR SUCH	San Juan 27-4 Unit			
1. Type of Well:		8. Well Number			
Oil Well Gas Well X	Other	43N			
2. Name of Operator	JRCES OIL & GAS COMPANY LP	9. OGRID Number 14538			
3. Address of Operator	ORCES OIL & GAS COMPANT EF	10. Pool name or Wildcat			
	ET, FARMINGTON, NM 87402	Blanco Mesaverde/ Basin Dakota			
4. Well Location Unit Letter B 43	35' feet from the North line and	2215' feet from the East line			
Section 17	Township 27N Range 4V	······································			
11. E	levation (Show whether DR, RKB, RT, GR. etc.)				
Pit or Below-grade Tank Application	or Closure				
Pit type New Drill Depth to Groundwa	150	>1000' Distance from nearest surface water			
Pit Liner Thickness: 12	mil Below-Grade Tank: Volume	bbls; Construction Material			
	ppropriate Box to Indicate Nature of No	•			
NOTICE OF IN	******	SUBSEQUENT REPORT OF: AL WORK ALTERING CASING			
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TEMPORARILY ABANDON					
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# BURLINGTON RESOURCES OIL & GAS COMPANY, LP SAN JUAN 27-4 UNIT #43N, 435' FNL & 2215' FEL SECTION 17, T27N, R4W, NMPM, RIO ARRIBA COUNTY, NM GROUND ELEVATION: 6676' DATE: NOVEMBER 15, 2005

LATITUDE: 36°34'45"
LONGITUDE: 107°16'19"

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

## OPERATIONS PLAN

Well Name:

SAN JUAN 27-4 UNIT 43N

Location:

435' FNL & 2215' FEL, Section Sec 17 T27N R4W

Rio Arriba County, New Mexico

Formation:

Blanco Mesaverde/Basin Dakota

**Elevation:** 

6676' GL

Formation Tops:	<i>Top</i>	Bottom	<u>Contents</u>
Surface	San Jose	3063'	
Ojo Alamo	3063'	3178'	aquifer
Kirtland	3178'	3373 '	gas
Fruitland Coal	3373'	3518'	gas
Pictured Cliffs	3518'	3708'	gas
Lewis	3708'	4083'	
Huerfanito Bentor	ite 4083'		
Chacra	4513 '	5133 '	gas
Upper Cliff House	5133 '	5238'	gas
Massive Cliff Hou	ıse 5238'	5368'	gas
Menefee	5368'	5733 '	gas
Massive Point Loc	okout 5733'	6241'	gas
Mancos Shale	6241'	6881'	
Upper Gallup	6881'	7651'	gas
Greenhorn	7651'	7718'	gas
Graneros	7718'	7754 '	gas
Two Wells	7754 '	7867'	gas
Upper Cubero	78671	7910'	gas
Lower Cubero	7910'	7960'	gas
Oak Canyon	7960'	7980'	gas
Total Depth:	7980'		gas

# Logging Program:

Mud Logs/Coring/DST

Mud logs - none

Coring - none

DST - none

Open hole - none

Cased hole - Gamma Ray, CBL - surface to TD

#### Mud Program:

Interval	Type	<u>Weight</u>	<u>Vis.</u>	Fluid Loss
Interval 0 - 120 200	Spud MUD/Air/Air Mist	8.4 - 9.0	40 - 50	no control
120- 3808'	LSND	8.4 - 9.0	30 - 60	no control
3808 - 7980'	Air/Air Mist/Nitrogen	n/a	n/a	n/a

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

Hole Size	Depth Interval	<u>Csg.Size</u>	Wt.	<u>Grade</u>
12 1/4"	0' - 120' 200	9 5/8"	32.3#	H-40
8 3/4."	0' - 3808'	7"	20/23#	J-55
6 1/4"	0' - 7980'	4 1/2"	10.5#	J-55

#### Tubing Program:

Depth Interval	<u>Csg.Size</u>	Wt.	<u>Grade</u>
0' - 7980'	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  $\frac{1}{2}$ " 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.

# C. HARRADEN/ February 8, 2006

BURLINGTON RESOURCES/ San Juan 27-4 Unit #43N APD

STIPULATION/CONDITION OF APPROVAL

This well is located within a 'vulnerable area'. In order to protect the integrity of the alluvium aquifer, a minimum surface csg. depth of 200' is stipulated as a condition of approval for this APD.

#### 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 98 sx Type III cement with 0.25 pps Celloflake, 2% CaCl. With 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 342 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 (124 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/20 sacks Premium Lite cement with 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss. Tail w/90 sxs Type III cmt w/1% calcium chloride, 0.25 pps Celloflake, 0.2% fluid loss. Second stage: 323 sacks Premium Lite cement with 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate (687cu 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 @ 3178'. Two turbolating centralizers at the base of the Ojo Alamo @ 3178'. 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 273 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 (540 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 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	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 East half of Section 17 is dedicated to the Mesa Verde formation and Dakota formation.
- This gas is dedicated.



vessure or greater excluding 500 pel abipping head. he BOP. All BOP equipment is 2000 pel working ms. A stripping head to be insta Physics #2

100 PE

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