UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

	APPLICATION	I FOR PERMIT TO E	KILL, DEEI	EN, U	R PLUG BACK	
a.	Type of Work DRILL	200 6 JUN	19 PM	2 ^{5.}	Lease Number NMSF-078 Unit Reporting N	
) .	Type of Well GAS	070 F	RECEIVED ARMINGTO	6.	If Indian, All. or	Tribe
	Operator BURLINGTON			7.	Unit Agreement	Name
	RESOURCES OIL&G	as Company LP			San Juan 29-	7 Unit
•	Address & Phone No. of Open PO Box 4289, Farmin				Farm or Lease N	ame
	(505) 326-9700			9.	Well Number #448	
••	Location of Well Unit B (NWNE), 535' F	'NL, 2115' FEL). Field, Pool, Wil asin Dakota	dcat
	Latitude 36° 43.8970' Longitude 107° 35.516			Bs	l. Sec., Twn, Rge, ec. 17, T29N,	R07W
				Al	P1 # 30-039- Z	9963
4.	Distance in Miles from Neares 15.5 miles to Blanco,				2. County io Arriba	13. State NM
5.	Distance from Proposed Loca 535'	tion to Nearest Proper	ty or Lease I	ine		
6.	Acres in Lease				7. Acres Assigned	to Well
В.	Distance from Proposed Loca 55' - San Juan 29-7 Ur		Orlg, Compl,	or App	lied for on this Lea	
9.	Proposed Depth 8047'	110 #110		20). Rotary or Cable Rotary	Tools
1.	Elevations (DF, FT, GR, Etc.) 6779'GL			22	2. Approx. Date	Work will Start
3.	Proposed Casing and Cement See Operations Plan		<u> </u>	····		JU RE
4.	Authorized by: Regulator	y Analyst	daval		\(\frac{1}{\phi} - \left(\frac{1}{5} - \left(\fr	OUE OIL CO
ERMI	T NO.	_ρ	APPROVAL	DATE		E CO
PPRO	OVED BY SILL ONG	EX TITLE_	AEN	1	DATE	6/27/

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.



DISTRICT 1 1625 N. French Dr., Hobbs, N.M. 88240

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised October 12, 2005

OIL CONSERVATION DIVISION

Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT III 1000 Rio Brazos Rd., Aztec, N.M. 87410

1220 South St. Francis Dr. Santa Fe, NM 87505

☐ AMENDED REPORT

DISTRICT IV 1220 S. St. Francis Dr., Santa Pe, NM 87505

DISTRICT II
1301 West Grand Avenue, Artesia, N.M. 88210

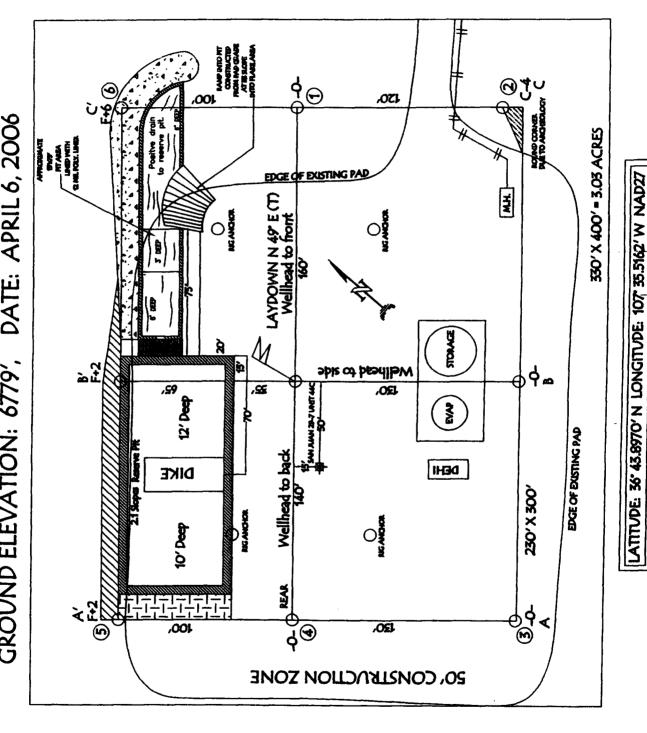
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	¹ API Number ⁸ Pool Code ⁸ Pool Name												
30-039	2991	<u>ø3</u>	7159	39		Basin Dakota						4 W. N. M	
Property C	ode				•	operty Name					• Well Number		
7465												44E	
OGRID No). 				•	retor 1			_		i	Elevation	
14538			BURLINGTON RESOURCES OIL AND GAS COMPANY LP 6779'					3779'					
<u></u>					10 Surfa	ace	Location						
UL or lot no.	Section	Township	Range	Lot Idn	Feet from	the	North/South line		from the	East/We		County	
В	17	S9-N	7-W		535'		NORTH		2115'	EAS	51'	RIO ARRIBA	
				om Hole			f Different Fro				·		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from	the	North/South line	Fee	t from the	East/We	est line	County	
D Dedicated Acre	<u> </u> 	1	¹⁸ Joint or	Infill	¹⁴ Consolida	tion C	ode	15 Or	der No.	<u></u>	····		
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	- 13	LAT: 3643.81 LONG: 1073(970' N. 5.5162' W.			1			has a right to a contrac	to drill this	well at the	is location pursuant is a mineral or	
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								2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	division.				
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		LAT: 36'43'5	3.8 N.		ಮೇ	i		м		L_{j}	01	. 🗸 . /	
		LONG: 1073 NAD 1983	5'33.2" W.	li				- 1	Signature	esy	(lll	81/20	
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			1	11					18 SUR	VEYOR	CERTI	FICATION	
	1]1	USA	SF-	-078423		I hereby ceri	lify that the	well locatio	on shown on this plat	
	ļ								me or under	my supervi	ision, and th	al surveys made by hat the same is true	
									and correct t	the best o	of may belief.		
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Office District I	-	State of Nev	v Mexico		Form C-103
		Energy, Minerals and	Natural Resources		May 27, 2004
1625 N. French Dr., Hobb District II	s, NM 88240			WELL API NO.	039- 29963
1301 W. Grand Ave., Arte	sia, NM 88210	OIL CONSERVAT	ION DIVISION	5. Indicate Type of Lease	
District III		1220 South St. Santa Fe, N		STATE	FEE
1000 Rio Brazos Rd., Azto District IV	ec, NM 87410	6. State Oil & Gas Lease No NMSF-0	1		
1220 S. St. Francis Dr., Sa	anta Fe, NM 87505				
		S AND REPORTS ON WELL O DRILL OR TO DEEPEN OR PLUG		7. Lease Name or Unit Agre	ement Name
`		FOR PERMIT" (FORM C-101) FOR		San Juan 2	9-7 Unit
PROPOSALS.)					
1. Type of Well: Oil Well	Gas Well X	Other		8. Well Number	F
2. Name of Operator	243			9. OGRID Number	
	NGTON RESOU	RCES OIL & GAS COMPAN	NY LP	1453	38
3. Address of Operator	1 E. 30TH STREI	ET, FARMINGTON, NM 874	102	10. Pool name or Wildcat Basin D	Dakota
4. Well Location					
Unit Letter Section	B : 53	feet from the N Township 29N	orth line and 7W	2115 feet from the	East line
Section		evation (Show whether DR, R		NIVIPIVI COUN	RIO ATTOR
			779'		
Pit or Below-grade Tank Ap		or Closure			
Pit type New Drill Pit Liner Thickness:	Depth to Groundwate	er <u>>100</u> Distance from ne: mil Below-Grade Tank:	arest fresh water well Volume	>1000' Distance from neare	
				bbls; Construction Mater	
	_		ate Nature of Not	tice, Report or Other Da	
PERFORM REMEDIAL		TENTION TO: PLUG AND ABANDON	REMEDIA	SUBSEQUENT REPO	ORT OF: ALTERING CASING
TEMPORARILY ABANE	-	CHANGE PLANS	- → 1	CE DRILLING OPNS.	P AND A
PULL OR ALTER CASI	NG 🔲	MULTIPLE COMPL	CASING/C	EMENT JOB	
OTUED.	A7 15				
OTHER:	New D	rill	X OTHER:		
13. Describe propo	sed or completed	operations. (Clearly state all	pertinent details, and g	give pertinent dates, including	estimated date
13. Describe propo of starting any	sed or completed proposed work).	operations. (Clearly state all	pertinent details, and g	give pertinent dates, including th wellbore diagram of propose	estimated date ed completion
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PIPILINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BUNIED

NOTE: VECTOR SHOULD CALL ONE-CALL FOR UNDERGROUND VIRILITIES OR PRIMEDIALS.



DURCES OIL & GAS COMPANY LP UNIT #44E, 535' FNL & 2115' FEL

BURLINGTON RESC

RIO ARRIBA COVI

NMPM,

THON 17

RESERVE MT DIKE: TO BE 8' ABOVE DEEP SIDE (OVER-LOW - 3' WIDE AND 1' ABOVE SHALLOW SIDE).

BURLINGTON RESOURCES OIL & GAS COMPANY LP SAN JUAN 29-7 UNIT #44E, 535' FNL & 2115' FEL SECTION 17, T-29- N, R-7-W, NMPM, RIO ARRIBA COUNTY, NM GROUND ELEVATION: 6779', DATE: APRIL 6, 2006

6770	6780	6790	ELEV. C'-C	6760	6770	6780	6790	ELEV. B'-B	6760	6770	6780	6790	ELEV. A'-A
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NOTE: VECTOR SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. PIPLINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION. CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED

OPERATIONS PLAN

Well Name:

SAN JUAN 29-7 UNIT 44E

Location:

535' FNL & 2115' FEL, Section 17 T29N R07W

Rio Arriba County, New Mexico

Formation:

Basin Dakota

Elevation:

6779' GL

Formation Tops:	Top	Bottom	<u>Contents</u>
Surface	San Jose	2526'	
Ojo Alamo	2526'	2722 '	aquifer
Kirtland	2722 '	3284'	gas
Fruitland Coal	3284 1	3560'	gas
Pictured Cliffs	3560'	3715'	gas
Lewis	3715'	4237'	
Huerfanito Bentonite	4237'		
Chacra	4514'	5284'	gas
Massive Cliff House	5284'	5350'	gas
Menefee	5350'	5725'	gas
Massive Point Lookout	5725 '	6115'	gas
Mancos Shale	6115'	6993 '	
Upper Gallup	6993 '	7735 '	gas
Greenhorn	7735 '	7789'	gas
Graneros	7789'	7841'	gas
Two Wells	7841'	7953 '	gas
Upper Cubero	7953 '	7979'	gas
Lower Cubero	7979'	8047'	gas
Encinal	8047'	8047'	gas
Total Depth:	8047'		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:

<u>Interval</u>	<u>Type</u>	<u>Weight Vis.</u>	<u>Fluid Loss</u>
0 - 120'	Spud MUD/Air/Air Mist	8.4 - 9.0 40 - 50	no control
120'- 3815'	LSND	8.4 - 9.0 30 - 60	no control
3815' - 8047'	Air/Air Mist/Nitrogen	n/a n/a	n/a

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

<u> Hole Size</u>	Depth Interval	<u>Csg.Size</u> <u>Wt.</u>	<u>Grade</u>
12 1/4"	0' - 120'	9 5/8" 32.3#	H-40
8 3/4"	0' - 3815'	7" 20/23#	J-55
6 1/4"	0' - 8047'	4 1/2" 10.5#/11.6	# J-55

Tubing Program:

Depth Interval	<u>Csg.Size</u>	<u>Wt.</u>	<u>Grade</u>
0' - 8047'	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, BOPE 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, BOPE 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.

<u> Wellhead -</u>

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.

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 343 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/30 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: 313 sacks Premium Lite cement with 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate (854 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 @ 2722'. Two turbolating centralizers at the base of the Ojo Alamo @ 2722'. 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 277 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 (548 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:

- This will be a Dakota only.
- 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 Dakota formation.
- This gas is dedicated.



Burlington Resources

2000 psi System Oriding Rig

ACC PLOOR

Dritting Rig Choise Manifold Configuration 2000 pel System

TIVE FRANCE

PFLLAP LINE

ECTATING HEAD.

Point to Total Depth. 2,000pal working pres quipment with two chokes.

Figure #3

4-20-01

pereme. A stripping head to be installed on the top of ure double gate BOP to be equipped with bilad er wessure or greater excluding 600 pel shipping head. Operations. 7-1/16" bore, 2000 pel minimum world he 8OP. All 8OP equipment is 2000 pel working Minimum BOP installation for ett Completion/Wo

Pigure #2

10-02-4