UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

	APPLICA	ATION FOR PERMIT TO DRILL, DE	EPEN, OR PLUG BACK	CO DIOT.
1a.	Type of Work DRILL	RECEIVED	5. Lease Number NM-9037 Unit Reporting No	umber CALEDE
1b.	Type of Well GAS	070 FARMINGTON !!	ि If Indian, All. or T	ribe
2.	Operator BURLINGTON RESOURCES O	il & Gas Company LP	7. Unit Agreement N	lame
3.	Address & Phone No. o PO Box 4289, Fa (505) 326-9700	of Operator armington, NM 87499	8. Farm or Lease Na Reese Mes 9. Well Number #8T	
4.	Location of Well 700' FNL, 330' FV		10. Field, Pool, Wild Basin Fruitland 11. Sec., Twn, Rge, I	d Coal
	Latitude 36° 59.8	8793'N, Longitude 107 ⁰ 37.9	Unit E, Sec. 13	
14.	Distance in Miles from 132.2 Miles from 1		12. County San Juan	13. State
15. 16.	Distance from Propose 330' Acres in Lease	ed Location to Nearest Property or Le	17. Acres Assigned	- (Less-7-10-15
18.	Distance from Propose	ed Location to Nearest Well, Drig, Cor		9055 tractle ease
19.	Proposed Depth 3936'		20. Rotary or Cable Rotary	Tools
21.	Elevations (DF, FT, GR, 7064' GR	, Etc.)	22. Approx. Date W	ork will Start
23.	Proposed Casing and C See Operations			
24.	Authorized by: Regul	latory Associate II	8/2/2005 Date	
	IT NO.	ankers TITLE A	AL DATEDAT	E 8-15-05

Archaeological Report attached

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

NOT AN HPA FC WELL is subject to technical and procedura raview pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

NESTRICT' I 1625 H. French Dr., Hobbs, E.H. 68340

State of New Mexico Energy, Minerals & Haberel December Department

Form C-102 Revised August 15, 2000

DESTRUCT H 811 South First, Artesia, M.M. 88210

DESTRICT III 1039 Rio Brones Rd., Antec, ILIL 87610 OIL CONSERVATION DIVISION 2040 South Pacheco Submit to Appropriate District Office State Lease — 4 Copies Fee Lease — 3 Copies

DISTRICT IV 2040 South Pacheco, Santa Fe, III 87505 2040 South Pecheco Senta Pe, NM 87505, 005 AUG 8 PM 1 38 AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

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30-045-	Rember 33.	267	7162	⁸ Peol Code 9		070 Basin Fruitland	FARMALS FO	M NM	
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Submit 3 Copies To Appropriate District Office	State of New Mexic	co		Form C-103
District I	Energy, Minerals and Natural R	Resources		May 27, 2004
1625 N. French Dr., Hobbs, NM 88240			WELL API NO. 30-045-	
District II 1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION DI	VISION	5. Indicate Type of Lease	
District III	1220 South St. Francis l	STATE FEE		
1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe, NM 87505	i	6. State Oil & Gas Lease No.	
District IV 1220 S. St. Francis Dr., Santa Fe, NM 8750	5		Federal Lease NM-9037	
	ES AND REPORTS ON WELLS		7. Lease Name or Unit Agreement Nam	e
.1 "	TO DRILL OR TO DEEPEN OR PLUG BACK TO	A		
DIFFERENT RESERVOIR. USE "APPLICATION PROPOSALS.)	N FOR PERMIT" (FORM C-101) FOR SUCH		Reese Mesa	
1. Type of Well:			8. Well Number	
Oil Well Gas Well X	Other		#8T	
2. Name of Operator	URCES OIL & GAS COMPANY LP		9. OGRID Number 14538	
3. Address of Operator	DRCES OIL & GAS COMPANT LF		10. Pool name or Wildcat	
3401 E. 30TH STRI	EET, FARMINGTON, NM 87402		Basin Fruitland Coal	
4. Well Location	100 fact from the North	line and	220 foot from the West	line
Unit Letter E : 7 Section 12	feet from the North Township 32N Rang	line and	330 feet from the West NMPM County	San Juan
	Elevation (Show whether DR, RKB, RT, G			
Pit or Below-grade Tank Application X	7064' GR			
		ator wall	1000! Distance from manual curfoce was	1000
Pit type New Drill Depth to Groundwa Pit Liner Thickness: NA	ater >100' Distance from nearest fresh w mil Below-Grade Tank: Volum		>1000' Distance from nearest surface wa bbls; Construction Material	ter >1000'
				
	Appropriate Box to Indicate Natu	ire of Noti		
NOTICE OF IN		DEMEDIAL	SUBSEQUENT REPORT OF:	_
PERFORM REMEDIAL WORK TEMPORARILY ABANDON	PLUG AND ABANDON CHANGE PLANS	REMEDIAL	. WORK CE DRILLING OPNS. ALTERING P AND A	CASING H
PULL OR ALTER CASING	MULTIPLE COMPL		EMENT JOB	
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	d operations. (Clearly state all pertinent d SEE RULE 1103. For Multiple Comple			
or recompletion.	SEE NOEE 1103. 1 of Manaple Comple	otions. Titue	is well-ore diagram of proposed completi	OII
				,
New Drill, Unlined:				
	nstruct a new drilling pit and an associated			
	new drilling pit and vent/flare pit will be			
	on Procedures dated November 11, 2004 o			
	ortion will be unlined, as per the risk rank Pit Closure Procedure dated August 2, 20			g these pits
according to the Dinning / WORKOVE	1 it Closure i roccuire dated August 2, 20	or on the th	at the MINIOCD UITICE.	
Thereby certify that the information abo	ve is true and complete to the best of my k	knowladca o	nd helief I further courting that are the	
	ed according to NMOCD guidelines , a general			
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SIGNATURE // MILITAL	Mellifal TITLE	Regul	atory Associate II DATE	7/14/2005
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For State Use Only	Thompson E-mail address: E	mompson	@br-inc.com Telephone No. 50:	5-326-9530
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APPPROVED BY	TITLEOUT	Y DIL & GA	S INSPECTOR, DIST. & DATE	muu ii lud
Conditions of Approval (if any):	- /·			

BURLINGTON RESOURCES OIL & GAS COMPANY LP RESE MESA 8T, 700' FNL & 330' FWL SECTION 12, T-32- N, R-8-W, NMPM, SAN JUAN COUNTY, NM GROUND ELEVATION: 7064', DATE: JUNE 22, 2005

ELEV. A'-A	5
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CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPLINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION. NOTE: VECTOR SURVEYS IS NOT LIABLE FOR UNDERGROUND UTLITIES OR PIPELINES.

OPERATIONS PLANS FOR FRUITLAND COAL WELLS

Well Name:

Reese Mesa #8T

Location:

Unit E, 700' FNL, 330' FWL

Sec. 12 T-32-N, R-8-W San Juan County, NM Latitude 36* 59.8793'N Longitude 107* 37.2216'W

Formation:

Basin Fruitland Coal

Formation Tops:	Top	<u>Bottom</u>	<u>Contents</u>
Surface	San Jose	2369'	
Ojo Alamo	2369'	4707'	aquifer
Kirtland	2446'	4630'	gas
Top/Fruitland Coal	3601'		gas
Base/Fruitland Coal	3886'		_
Pictured Cliffs	3889'		gas
TD	3939'		_

This will be a single producing FC well, and is not an HPA well. Burlington requests permission to use the 85' into the Pictured Cliffs interval as a sump. There will be a mudlogger on site during drilling to verify PC gas insn't reached.

Logging Program:

Mudlog from intermediate to TD Cores - none

Mud Program:

<u>Interval</u>	Type	<u>Weight</u>	<u>Vis.</u>	Fluid Loss
0- 120'	Spud Mud/Air/Air Mist	8.4-9.0	40-50	no control
120'- 3936'	LSND/Clear Water/	8.4-9.0	30-60	no control
	Starch-Polymer			

Circulating media will be contractor dependent.

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	Csq.Size	Wt.	<u>Grade</u>
8 3/4"	0' - 120'	7"	20.0#	J-55
6 1/4"	120'- 3939'	5 ½"	15.5#	J-55
			or open ho	ماه

Tubing Program:

0' - 3936' 2 3/8" 4.7# J-55

BOP and tests:

Surface to intermediate TD - 11" 2000 psi (minimum) double gate BOP stack (Reference Figure #1). Prior to drilling out surface casing, test BOPE to 600 psi for 30 min.

Intermediate TD to Total Depth - 7 1/6" 2000 psi (minimum) completion BOP stack (Reference Figure #2). Prior to drilling out intermediate casing, test BOPE and casing to 1500 psi for 30 minutes.

From surface to 5-1/2" TD - a choke manifold will be installed in accordance with Onshore Order No. 2 (Reference Figure #3). When the cavitation completion rig drills the production hole, the completion rig configuration will be used (Reference Figure #4).

Wellhead Equipment: $7" \times 5-1/2" \times 23/8" \times 11"$ 2000 psi xmas 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:

7" surface casing Pre-Set w/42 (545) 2 7.25 yield.

Cement with Type I, II cement with 20% flyash mixed at 15.2 ppg, 1.28 cu ft per sack yield. (Bring cement to surface). Wait on cement for 24 hours for pre-set holes before pressure testing or drilling out from under surface.

7" surface casing Conventionally w/42sx (54cf) @ 1.28 yield.

Cement with Type III cement with 0.25 pps Celloflake, 3% calcium chloride. (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. 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.

5-1/2" intermediate casing w/133sx (284cf) @ 2.13 yield. Lead with Premium Lite H5 FM w/3% CaCl2, 0.25#/sx Flocelle, 5#/sx LCM-1, 0.4% FL-52 & 0.4% SMS (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.

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. Two turbolating centralizers at the base of the Ojo Alamo. Bowspring centralizers spaced every fourth joint from the base of the Ojo Alamo to the base of the surface casing.

BURLINGTON RESOURCES

Pigure #4
Cavitation Rig
BOP Configuration
2,000 psi Minimum System

