All war of

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

	APPLICATION FOR PERMIT TO DRILL, DE	EEPEN, OR PLUG BACK 2005 JUN 24 PM 2 21
la.	Type of Work	5. Lease Number
	DRILL	RECNMNM-0555563
		Unit Reporting Number
1 L	Time of Wall	
1b.	Type of Well GAS	6. If Indian, All. or Tribe
	Operator	7. Unit Agreement Name
	BURLINGTON	•
	RESOURCES Oil & Gas Company	
3.	Address & Phone No. of Operator	8. Farm or Lease Name
	PO Box 4289, Farmington, NM 87499	Largo Federal
		9. Well Number
	(505) 326-9700	#1M
4.	Location of Well	10. Field, Pool, Wildcat
	660' FNL, 710' FWL	Blanco Mesaverde/Basin Dako
		11, Sec., Twn, Rge, Mer. (NMPM)
	Latitude 36° 41.2671'N, Longitude 107° 46.4	1954'W y Sec. 34, T29N, R09W
		API# 30-045- 5 2 (9"(
14.	Distance in Miles from Nearest Town	12. County 13. State
	6.5 miles intersection Blanco, NM Post Offi	
15.	Distance from Proposed Location to Nearest Property or Le	ase Line
16.	Acres in Lease	17. Acres Assigned to Well
		W/2 320 acres
18.	Distance from Proposed Location to Nearest Well, Drlg, Con	npl, or Applied for on this Lease
19.		
		20 Potary or Cable Tools
	Proposed Depth	20. Rotary or Cable Tools
		20. Rotary or Cable Tools Rotary
21.	Proposed Depth	Rotary
21.	Proposed Depth 6753'	
	Proposed Depth 6753' Elevations (DF, FT, GR, Etc.) 5780' GR	Rotary Rotary Approx. Date Work will Start
21.	Proposed Depth 6753' Elevations (DF, FT, GR, Etc.) 5780' GR	Rotary Rotary Approx. Date Work will Start
	Proposed Depth 6753' Elevations (DF, FT, GR, Etc.) 5780' GR Proposed Casing and Cementing Program See Operations Plan attached	Rotary Approx. Date Work will Start 2003
	Proposed Depth 6753' Elevations (DF, FT, GR, Etc.) 5780' GR Proposed Casing and Cementing Program See Operations Plan attached	Rotary Approx. Date Work will Start 2005
	Proposed Depth 6753' Elevations (DF, FT, GR, Etc.) 5780' GR Proposed Casing and Cementing Program See Operations Plan attached	Rotary Approx. Date Work will Start 2003
23.	Proposed Depth 6753' Elevations (DF, FT, GR, Etc.) 5780' GR Proposed Casing and Cementing Program See Operations Plan attached	Rotary Rotary Approx. Date Work will Start
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23.	Proposed Depth 6753' Elevations (DF, FT, GR, Etc.) 5780' GR Proposed Casing and Cementing Program See Operations Plan attached	Rotary Approx. Date Work will Start 2003
23.	Proposed Depth 6753' Elevations (DF, FT, GR, Etc.) 5780' GR Proposed Casing and Cementing Program See Operations Plan attached Authorized by: Regulatory Specialist	Rotary Rotary Approx. Date Work will Start CONT. DATE Date
23.	Proposed Depth 6753' Elevations (DF, FT, GR, Etc.) 5780' GR Proposed Casing and Cementing Program See Operations Plan attached Authorized by: Regulatory Specialist	Rotary Rotary Approx. Date Work will Start CONT. DATE Date
23. 24. PERMI	Proposed Depth 6753' Elevations (DF, FT, GR, Etc.) 5780' GR Proposed Casing and Cementing Program See Operations Plan attached Authorized by: Regulatory Specialist	Rotary Rotary Approx. Date Work will Start CONT. DATE Date

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.

NO HPA NOTIFICATION REQUIRED UNDER ORDER R-8768F.
This action is subject of fechnical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4



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

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised August 15, 2000

DISTRICT II 811 South First, Artesia, N.M. 88210

DISTRICT III 1000 Rio Brezos Rd., Aztec, N.M. 87410 OIL CONSERVATION DIVISION

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

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505 2040 South Pacheco Santa Fe. NM 27505 UN 24 PM 2 31

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045 33/	99 71599/72319	070 FARMING Pool Name Basin Dakota/Blanco Mesaverde	
⁴ Property Code		⁶ Property Name	• Well Number
7249	LARGO FEDERAL		1 M
OGRID No.		*Operator Name	• Elevation
14538	BURLINGTON RESOU	RCES OIL AND GAS COMPANY LP	5780'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	34	29-N	9-W		660'	NORTH	710'	WEST	SAN JUAN
11 Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹⁰ Dedicated Acre			¹³ Joint or	infili	" Consolidation C	ode:	¹⁸ Order No.	<u></u>	1
320 W/2	2								

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

710	2-42 E 3.36' LAT: 36'41.2671' N. LONG: 107'46.4954' W. NAD 1927		M	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein to true and complete to the best of my knowledge and belief
NM NM-(* m		Frances Bond Frinted Name Regulatory Specialist Title 4/23/05
	n X n	4	UL 2005	Date 18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same to true and correct to the best of my belief. Date of Survey 3-18-05
		× w	(46.8.L95)	Signature and Seel of Profilescope Serveyor: ME 15703 Cortificate Number 15703

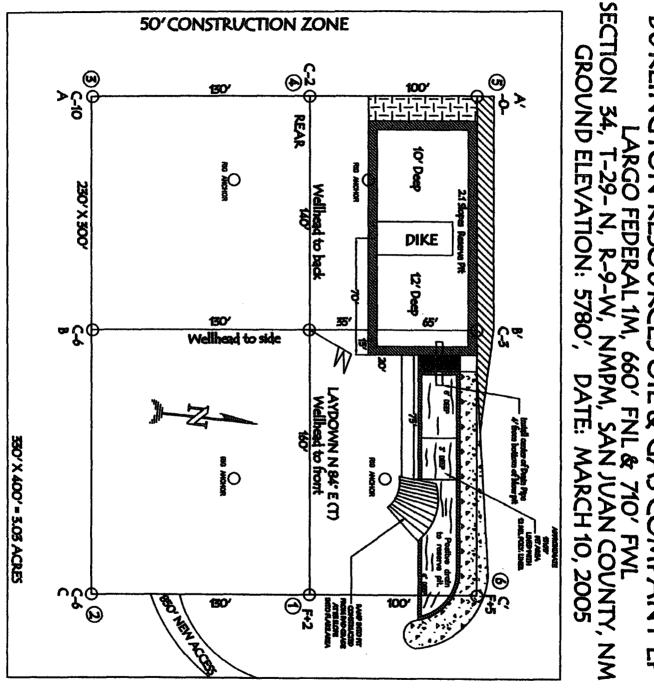
Submit 3 Copies To Appropriate District Office	State of New Mexico		Form C-103	
District I 1625 N. French Dr., Hobbs, NM 88240	Energy, Minerals and Natural Resources	WELL API NO.	May 27, 2004	
District II		30-0	145-	
1301 W. Grand Ave., Artesia, NM 88210 District III	OIL CONSERVATION DIVISION	5. Indicate Type of Lease		
1000 Rio Brazos Rd., Aztec, NM 87410	1220 South St. Francis Dr. Santa Fe, NM 87505	6. State Oil & Gas Lease No	FEE	
District IV	ŕ	NMNM-05		
1220 S. St. Francis Dr., Santa Fe, NM 8750:		7 7 37 77 77	137	
	S AND REPORTS ON WELLS O DRILL OR TO DEEPEN OR PLUG BACK TO A	7. Lease Name or Unit Agree	ment Name	
DIFFERENT RESERVOIR. USE "APPLICATION	Largo Fe	deral:		
PROPOSALS.) 1. Type of Well:		8. Well Number		
Oil Well Gas Well X	Other	8. Well Number		
2. Name of Operator		9. OGRID Number		
BURLINGTON RESOURTS OF OPERATOR	JRCES OIL & GAS COMPANY LP	14538		
	ET, FARMINGTON, NM 87402	Blanco Mesaverde	/Basin Dakota	
4. Well Location				
Unit Letter <u>D</u> : <u>6</u> Section 34	60 feet from the <u>North</u> line and	710 feet from the NMPM Count	West line San Juan	
	Elevation (Show whether DR, RKB, RT, GR, etc.)	TVIII II COUNT	y Dari suan	
Pit or Below-grade Tank Application X	or Closure 5780' GR			
Pit type New Drill Depth to Groundwa		>1000' Distance from neares	t aumfa ao mata-	
Pit Liner Thickness: na	mil Below-Grade Tank: Volume	bbls; Construction Materia		
NOTICE OF IN	ppropriate Box to Indicate Nature of No	SUBSEQUENT REPC		
PERFORM REMEDIAL WORK	PLUG AND ABANDON REMEDIA		ALTERING CASING	
TEMPORARILY ABANDON			P AND A	
PULL OR ALTER CASING	MULTIPLE COMPL CASING/O	CEMENT JOB		
OTHER: New Dr	ill Pit X OTHER:			
	operations. (Clearly state all pertinent details, and g			
of starting any proposed work). or recompletion.	SEE RULE 1103. For Multiple Completions: Attack	ch wellbore diagram of propose	d completion	
or recompletion				
Burlington Resources proposes to cor	struct a new drilling pit and an associated vent/flare	nit "Dagad on Dunlington's inte	manatation of the	
	new drilling pit and vent/flare pit will be an unlined p			
Pit Construction / Operation Procedur	es dated November 11, 2004 on file at the NMOCD	office. A portion of the vent/fla	are pit will be designed to	
	e unlined, as per the risk ranking criteria. Burlington		nese pits according to the	
Drilling / Workover Pit Closure Proce	dure dated August 2, 2004 on file that the NMOCD	office.		
		·		
I hereby certify that the information above	re is true and complete to the best of my knowledge a	and helief I further certify that any	nit ar helow	
grade tank has been/will be constructed or closed		or an (attached) alternative OCD-a		
	COOL		_	
SIGNATURE (TACK	TITLE Reg	ulatory Specialist	DATE <u>4/4/2005</u>	
Type or print name Joni	Clark E-mail address: jclark@l	br-inc.com Telephone No.	505-326-9701	
For State Use Only			IIII A S DAAF	
APPPROVED BY	TITLE	AS INSPECTOR, DIST.	UUL 21 2005	
Conditions of Approval (if any):			D11111	

RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW - 5' WIDE AND 1' ABOVE SHALLOW SIDE).
BLOW PIT: OVERFLOW PIPE 4' ABOVE BOTTOM OF BLOW PIT.

36" 41.2671"

LONGITUDE:

107 46.4954' NADZI

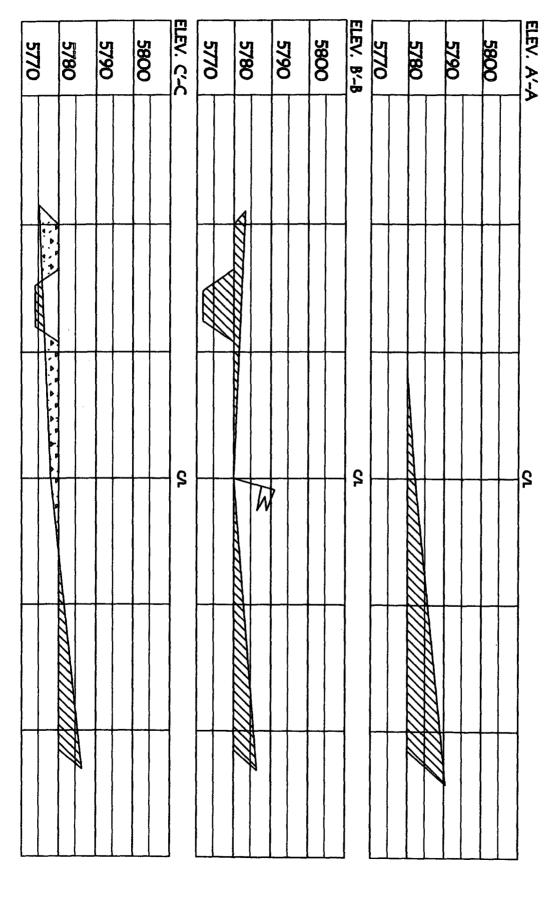


NOTE: VECTOR SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.

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.

BURLINGTON RESO SECTION 34, T-29- N, R-9-W, NMPM, SAN JUAN COUNTY, NM GROUND ELEVATION: 5780', DATE: MARCH 10, 2005 ON RESOURCES OIL & GAS COMPANY LP ARGO FEDERAL 1M, 660' FNL & 710' FWL



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 UTILITIES OR PIPELINES.

OPERATIONS PLAN

Well Name:

LARGO FEDERAL 1M

Location:

660' FNL & 710' FWL, Section Sec 34 T29N R09W

San Juan County, New Mexico

Formation:

Basin Dakota/Blanco Mesaverde

Elevation:

5780' GL

Formation Tops:	<u>Top</u>	<u>Bottom</u>	<u>Contents</u>
Surface	San Jose	1144'	
Ojo Alamo	1144'	1219'	aquifer
Kirtland	1219'	1949'	gas
Fruitland Coal	1949'	2152'	gas
Pictured Cliffs	2152'	2317'	gas
Lewis	2317'	2712'	
Huerfanito Bentonite	2712'		
Chacra	3119'	3814'	gas
Massive Cliff House	3814'	3837'	gas
Menefee	3837'	4427'	gas
Massive Point Lookout	4427'	4804'	gas
Mancos Shale	4804'	5627 '	
Upper Gallup	5627'	6399 '	gas
Greenhorn	6399'	6463'	gas
Graneros	6463'	6529'	gas
Two Wells	6529'	6639'	gas
Upper Cubero	6639'	6652'	gas
Lower Cubero	6652'	6708 '	gas
Encinal	6708'	6753'	gas
Total Depth:	6753'		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 - 2417'	LSND	8.4 - 9.0	30 - 60	no control
2417- 6753 ′	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>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' - 2417'	7"	20/23#	J-55
6 1/4"	0' - 6753'	4 1/2"	10.5#	J-55

Tubing Program:

<u>Depth Interval</u>	<u>Csg.Size</u>	<u>Wt.</u>	<u>Grade</u>
0' - 6753'	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.

<u>Wellhead -</u>

9 5/8" x 7" x 4 $\frac{1}{2}$ " x 2 3/8" x 2000 psi tree assembly.

<u>General -</u>

- 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 quide shoe on bottom. Bowspring centralizers will be run in accordance with Onshore Order #2.

7" intermediate casing -

Lead with 195 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 (539 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/23 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: 172 sacks Premium Lite cement with 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate (539 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 @ 1219'. Two turbolating centralizers at the base of the Ojo Alamo 1219'. 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 -

590 Pump 298 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 (384 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.

If open hole logs are run, cement volumes will be based on 25% excess over caliper volumes.

Cement nose quide 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 west half of Section 34 is dedicated to the Mesa Verde and Dakota.
- This gas is dedicated.

Jylal Mi War Drilling Engineer

<u>6/23/05</u>