UNITED STATES



DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

	APPLICATION FOR PERMIT TO	O DRILL, DEEPEN, OR PLUG BACK
1a.	Type of Work DRILL RECEIVED 070 FARKINGTOL	5. Lease Number NMNM-12013 Unit Reporting Number
1b.	Type of Well 070 Fairband of 070 GAS	6. If Indian, All. or Tribe
2.	Operator BURLINGTON RESDURCES Oil & Gas Company LP	7. Unit Agreement Name
3.	Address & Phone No. of Operator PO Box 4289, Farmington, NM 8749	8. Farm or Lease Name EPNG A 9. Well Number #100S
4.	Location of Well 840' FSL, 2210' FEL	10. Field, Pool, Wildcat Basin Fruitland Coal 11. Sec., Twn, Rge, Mer. (NMPM)
	Latitude 36 ^o 57.6438'N, Longitude	107° 27.7118'W Unit O, Sec. 21, T32N, R06W API # 30-045- 33222
14.	Distance in Miles from Nearest Town 22.6 Miles	12. County 13. State San Juan NM
15.	Distance from Proposed Location to Nearest Pr	roperty or Lease Line
16.	Acres in Lease	17. Acres Assigned to Well 320 E/2 FC
18.	Distance from Proposed Location to Nearest W	ell, Drlg, Compl, or Applied for on this Lease
19.	53 ' Proposed Depth 3205 '	20. Rotary or Cable Tools Rotary
21.	Elevations (DF, FT, GR, Etc.) 6419' GR	22. Approx. Date Work will Start
23.	Proposed Casing and Cementing Program See Operations Plan attached	
24.	Authorized by: Mulana Ila. Regulatory Associate	7
	OVED BY Hayer warmen TITLE	APPROVAL DATE

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

NOT AN HPA FC WELL

NMOCD

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

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102 Revised June 10, 2003

DISTRICT II 1301 W. Grand Ave., Artesia, N.M. 88210

OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

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

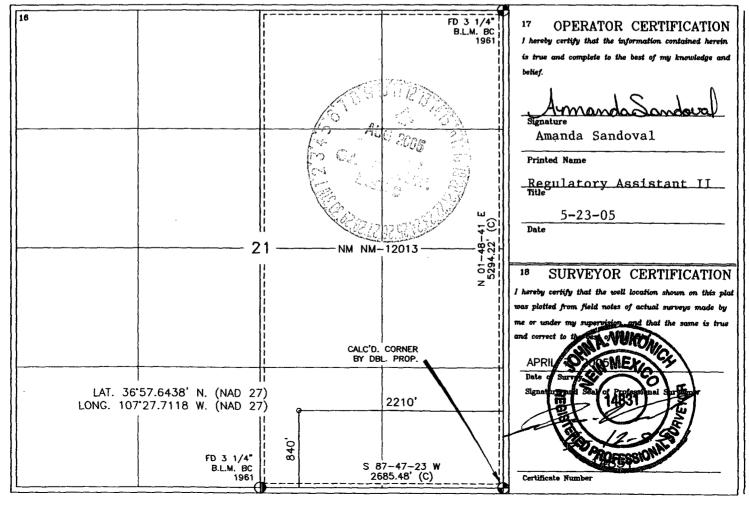
☐ AMENDED REPORT

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

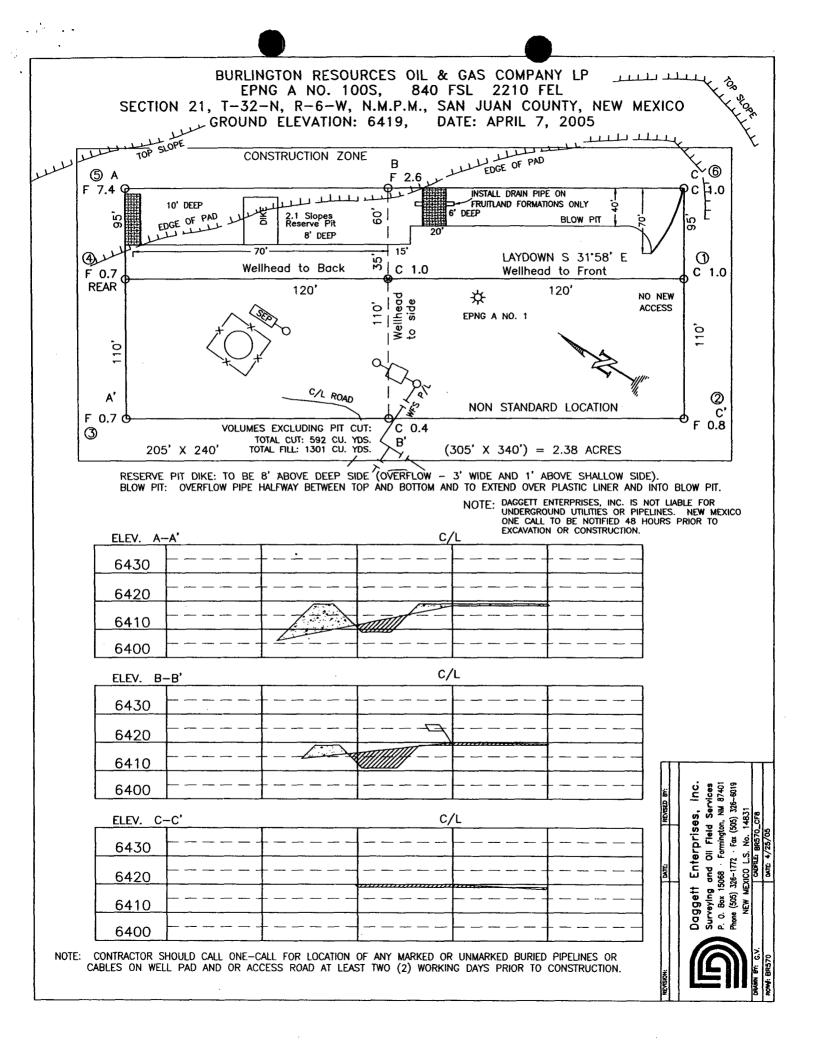
WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		*Pool Code		⁸ Pool Name					
30-045- 33 223			4 7	1629	Basin Fruitland Coal				
⁴ Property Code			⁶ Property Name			º ₩e	* Well Number		
6976			EPNG A				į	100S	
OGRID No.			Operator Name				,	^o Elevation	
14538 BURLINGT			LINGTON F	RESOURCES OIL & GAS COMPANY LP				6419'	
¹⁰ Surface Location									
UL or lot no.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/West line	County
0	21	32-N	6-W		840	SOUTH	2210	EAST	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
¹⁸ Dedicated Acres ¹⁹ Jo		¹⁸ Joint or	lnfill	¹⁴ Consolidation C	ode	¹⁵ Order No.		<u> </u>	
320 E2	FC								

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



Subrhit' 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. 30-045-		
1301 W. Grand Ave., Artesia, NM 88210 OIL CONSERVATION DIVISION	5. Indicate Type of Lease		
District III 1220 South St. Francis Dr. 1000 Rio Brazos Rd., Aztec, NM 87410 Santa Fe NM 87505	6. State Oil & Gas Lease No.		
District IV	Federal Lease NMNM-12013		
1220 S. St. Francis Dr., Santa Fe, NM 87505 SUNDRY NOTICES AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name		
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A	7. Lease Name of Onit Agreement Name		
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH	EPNG A		
PROPOSALS.) 1. Type of Well:	8. Well Number		
Oil Well Gas Well X Other	#1008		
Name of Operator BURLINGTON RESOURCES OIL & GAS COMPANY LP	9. OGRID Number 14538		
3. Address of Operator	10. Pool name or Wildcat		
3401 E. 30TH STREET, FARMINGTON, NM 87402	Basin Fruitland Coal		
4. Well Location Unit Letter O: 840 feet from the South line and	2210 feet from the East line		
Section 21 Township 32N Range 6W	NMPM County San Juan		
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 6419' GR			
Pit or Below-grade Tank Application X or Closure			
Pit type New Drill Depth to Groundwater <50' Distance from nearest fresh water well	>1000' Distance from nearest surface water <1000'		
Pit Liner Thickness: 12 mil Below-Grade Tank: Volume	bbls; Construction Material		
	SUBSEQUENT REPORT OF:		
OTHER: New Drill Pit X OTHER:			
13. Describe proposed or completed operations. (Clearly state all pertinent details, and gof starting any proposed work). SEE RULE 1103. For Multiple Completions: Attacor recompletion.			
New Drill, Lined:			
Burlington Resources proposes to construct a new drilling pit and an associated vent/flare Ecosphere's risk ranking criteria, the new drilling pit will be a lined pit as detailed in Burli Operation Procedures dated November 11, 2004 on file at the NMOCD office. A portion of that portion will be lined as per the risk ranking criteria. Burlington Resources anticipates Pit Closure Procedure dated August 2, 2004 on file at the NMOCD office.	ngton's Revised Drilling / Workover Pit Construction / of the vent/flare pit will be designed to manage fluids and		
•			
I hereby certify that the information above is true and complete to the best of my knowledge a grade tank has been/will be constructed or closed according to NMOCD guidelines, a general permit X			
the level the	latory Associate II DATE 6/8/2005		
	n@br-inc.com Telephone No. 505-326-9530		
For State Use Only	AUG 4 9 2005		
APPPROVED BY	GAS INSPECTOR, DIST. 80 DATE		



OPERATIONS PLAN

Well Name:

EPNG A #100S

Location:

Unit O (SWSE), 840' FSL & 2210' FEL, Section 21, T32N, R6W

San Juan County, New Mexico

Latitude 36° 57.6438'N; Longitude 107° 27.7118'W

Formation:

Basin Fruitland Coal

Elevation:

6419' GR

Formation:	Тор	Bottom	Contents
Surface	San Jose		
Ojo Alamo	2296'	2408'	
Kirtland	2408	3022'	gas
Intermediate TD	2992'		_
T/Fruitland	3022'		gas
B/Fruitland	3120'		gas
T/Pictured Cliffs	3126'		gas
Total Depth	3205'		_

Burlington Resources wishes to utilize a sump on this well.

Logging Program:

Mudlog from intermediate to TD

Cores - none

Mud Program:

Interval	<u>Type</u>	<u>Weight</u>	<u>Vis.</u>	Fluid Loss
0- 120'	Spud Mud/Air/Air Mist	8.4-9.0	40-50	no control
120'- 2992'	LSND/Clear Water	8.4-9.0	30-60	no control
2992' - 3205'	Starch-Polymer/Air/Mist			
Circulating media	will be contractor dependent			

Alternate Mud Program:

Interval	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' - 2992'	LSND/Clear Water	8.4-9.0	30-60	no control
2002' -3205'	Ain/Mic+			

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	<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' - 2992'	7"	20.0#/23#	J-55/N-80
6 1/4"	2972' - 3205'	5 1/2"	15.5#	J-55/N-80



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 7" 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).

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.

Wellhead Equipment: $9.5/8" \times 7" \times 2.3/8" \times 11"$ 2000 psi xmas tree assembly.

Cementing:

9 5/8" surface casing Pre-Set Drilled -

Cement with Type I, II cement with 20% flyash mixed at 14.5 ppg, 1.61 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.

9 5/8" surface casing Conventionally Drilled -

Cement with -70 \$x (113 cf of slurry @ 1.28 yield) 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.

<u>7" intermediate casing</u> - Cement with 260 sx (554 cu ft of slurry @ 2.13 yield) Premium Lite with 3% calcium chloride, 5 pps LCM-1, and 1/4#/sack celloflake, 0.4% FL-52, & 0.4% SMS. Tail with 90 sacks (124 cu ft of slurry @ 1.38 yield) Type III cmt with 1% calcium chloride, 1/4#/sack Celloflake and 0.2% FL-52. Total of 678 cf - 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 2408'. Two turbolating centralizers at the base of the Ojo Alamo @ 2408'. Bowspring centralizers spaced every fourth joint from the base of the Ojo Alamo to the base of the surface casing.

5 1/2" liner - will not be cemented if run.

Note:

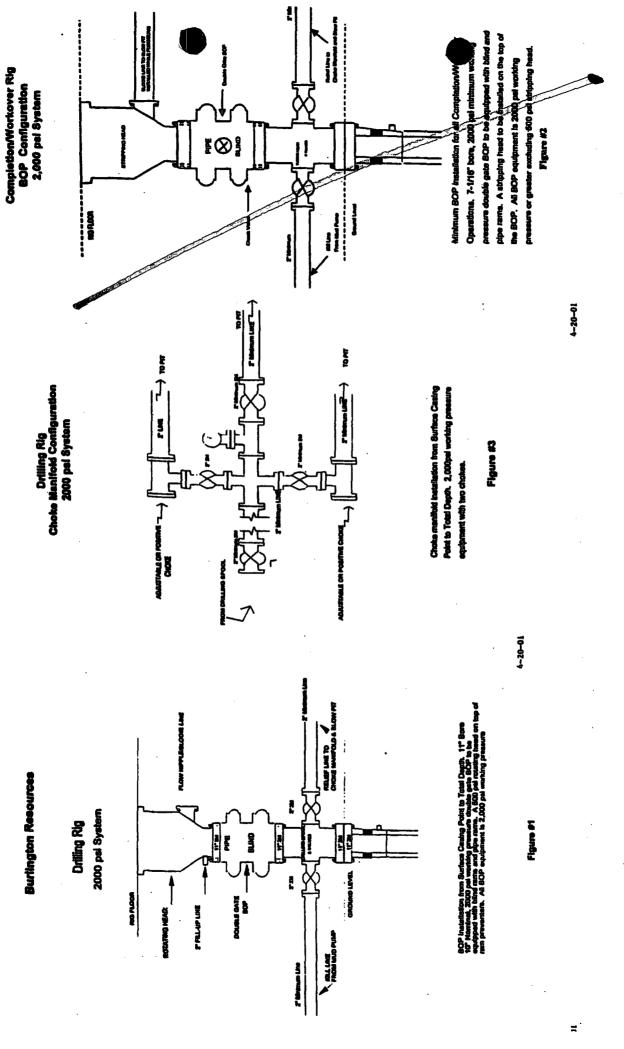
- If open hole logs are run, cement volumes will be based on 25% excess over caliper volumes.
- If hole conditions permit, an adequate water spacer will be pumped ahead of each cement job to prevent cement/mud contamination or cement hydration.

Additional information:

- The Fruitland Coal formation will be completed.
- No abnormal temperatures or hazards are anticipated.
- Anticipated pore pressure for the Fruitland is less than 500 psi.
- This gas is dedicated.
- The E/2 of the section is dedicated to this well.
- This is not an HPA well.

Drilling Engineer

6/15/05 Date



BURLINGTON RESOURCES

BURLINGTON RESOURCES

BURLINGTON RESOURCES

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

