# **UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT**

	APPLICATION FOR PERMIT TO DRILL, DEEPE	N, OR PLUG BACK
la.	Type of Work	5. Lease Number
	DRILL	5. Lease Number NMSF078578A Unit Reporting Number 6. If Indian, All. or Tribe
lb.	Type of Well GAS MAY 2003	6. If Indian, All. or Tribe
2.	Operator BURLINGTON RESOURCES Oil & Gas Company	7. Unit Agreement Name
3.	Address & Phone No. of Operator	8. Farm or Lease Name
	PO Box 4289, Farmington, NM 87499	Howell K
	(505) 326-9700	9. Well Number 300S
l.	Location of Well	10. Field, Pool, Wildcat
	1025'FNL, 1390'FEL	Basin Fruitland Coal 11. Sec., Twn, Rge, Mer. (NMPM)
	Latitude 36 <sup>0</sup> 48.9073, Longitude 107 <sup>0</sup> 39.3888	B Sec. 15, T-30-N, R-8-W API# 30-045- 31322
4.	Distance in Miles from Nearest Town	12. County 13. State
	12.5 miles to Blanco Post Office	San Juan NM
15.	Distance from Proposed Location to Nearest Property or Lease L	ine
16.	Acres in Lease	17. Acres Assigned to Well
		312.42 E/2
18.	Distance from Proposed Location to Nearest Well, Drlg, Compl, o	or Applied for on this Lease
19.	Proposed Depth	20. Rotary or Cable Tools
	2724'	Rotary
21.	Elevations (DF, FT, GR, Etc.)	22. Approx. Date Work will Start
	5837' GR	,,
23.	Proposed Casing and Cementing Program See Operations Plan attached	
24.	Authorized by: Regulatory/Compliance Supervisor	<u>/-2-03</u>

Archaeological Report to be submitted

Threatened and Endangered Species Report to be submitted

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.

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4



DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

# 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 Brazos Rd., Aztec, N.M. 87410

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505

Submit to Appropriate District Office OIL CONSERVATION DIVISION

2040 South Pacheco Santa Fe, NM 87505 JAN -8 PM 1: 16

☐ AMENDED REPORT

State Lease - 4 Copies Fee Lease - 3 Copies

WELL LOCATION AND ACREAGED DEDICATION PLAT

<sup>1</sup> API Number		<sup>2</sup> Pool Code		
30-045- 31	322	71629	Basin Fruitland Coal	
<sup>4</sup> Property Code		6	Well Number	
7130	ii.		300S	
OGRID No.		<sup>8</sup> Operator Name		
14538		5837'		

<sup>10</sup> Surface Location UL or lot no. Section Township North/South line Range Lot Idn Feet from the Feet from the East/West line County 8-W В 15 30-N 1025' **NORTH** 1390' **EAST** SAN JUAN <sup>11</sup> Bottom Hole Location If Different From Surface UL or lot no. Lot Idn Feet from the North/South line Section Township Feet from the East/West line County 18 Dedicated Acres 19 Joint or Infill M Consolidation Code <sup>16</sup> Order No. E/312.42

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

	OR A NON-BIAN	DARD UNIT HAS B	EEN AFFROVED BI	THE DIVISION
FD 3 1/4" B.L.M. BC 1956	N 86-55-01 W	5455.43' (M)               	FD 3 1/4" B.L.M. BC 1956	17 OPERATOR CERTIFICATION  I hereby certify that the information contained herein is true and complete to the best of my knowledge and beltef
MA MA	(2003	1338'	1390' ≥ €	Dem Care
MA CALL	LAT. 36-48.9 LONG 107-3		06-43-57 W 2467.13' (M)	Signature Peggy Cole Printed Name Regulatory Supervisor
	1	USA SF-   5	078578-A σ	Dete /- Z - O 3  Bate SURVEYOR CERTIFICATION
		   LOT 2   	LOT 1	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 is true and correct to the first of my belief.
		LOT 3	LOT 4	Signature and Society of Professional Surveyor:
				14823 Certificate Number

## OPERATIONS PLAN

Well Name: Howell K #300S

Location: 1025'FNL, 1390'FEL Section 15, T-30-N, R-8-W

Latitude 36° 48.9073'N, Longitude 107° 39.3888'W

San Juan County, NM

Formation: Basin Fruitland Coal

Elevation: 5837'GR

Formation:	Top	Bottom	Contents
Surface	San Jose	1533'	
Ojo Alamo	1533'	1677'	aquifer
Kirtland	1677'	2111'	
Fruitland	2111'	2483'	
Intermediate TD	2453'		
Fruitland Coal	2483'	2724'	gas
B/Basal Coal	2724'	2731'	gas
Total Depth	2724'		_
Pictured Cliffs	2731'		

Logging Program: GR/RHOB Mudlog: 7" casing shoe to TD

Coring Program: none

## Mud Program:

Interval	Type	Weight	Vis.	Fluid Loss
0- 120'	Spud	8.4-9.0	40-50	no control
120-2453'	Non-dispersed	8.4-9.0	30-60	no control
2453-2724'	Air/Mist			

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

Hol	e Size	Depth	Ir	nterval	Csg.Size	Wt.	Grade
12	1/4"	0 '	-	120'	9 5/8"	Wt. 32.3#	H-40
8	3/4"	0'	-	2453'	7 "	20.0#	J-55
6	1/4"	2453'	-	2724 <b>'</b>	open hol	e	
Tubing	Program:				•		
_	_	0'	-	2724'	2 3/8"	4.7#	J-55

Float Equipment: 9 5/8" surface casing - saw tooth guide shoe. Centralizers will be run in accordance with Onshore Order #2.

7" intermediate casing - guide shoe and self-fill float collar. Standard centralizers run every other joint above shoe. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 1677'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

Wellhead Equipment: 9 5/8" x 7" x 2 3/8" x 11" 2000 psi xmas tree assembly.

 $\Lambda \cap \Omega$ 

#### Cementing:

9 5/8" surface casing - cement with 32 sx Class A, B Portland Type I, II cement (38 cu.ft. of slurry, bring cement to surface through 3/4" line) or equivalent. WOC 24 hours for pre-set holes or 8 hours for conventionally set holes before pressure testing or drilling out from under surface casing.

7" intermediate casing - lead w/285 sacks Premium Lite with 3% calcium chloride, 5 pps LCM-1, and 1/4#/sack flocele, 0.4% FL-52, & 0.4% SMS. Tail with 90 sacks Type III cmt with 1% calcium chloride, 1/4#/sack flocele and 0.2% FL-52 (732 cu.ft., 100% excess to circulate to surface).

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

#### 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 rams to 600#/30 min.

Intermediate TD to Total Depth - 7 1/6" 2000 psi (minimum) double gate BOP stack (Reference Figure #2). Prior to drilling out intermediate casing, test blind rams and casing to 1500 psi for 30 minutes; all pipe rams and casing to 1500 psi for 30 minutes each.

From surface to TD - choke manifold (Reference Figure #3).

Pipe rams will be actuated at least once each day and blind rams actuated once each trip to test proper functioning. An upper kelly cock valve with handle and drill string safety valves to fit each drill string will be maintained and available on the rig floor.

## Additional information:

- \* The Fruitland Coal formation will be completed.
- \* Anticipated pore pressure for the Fruitland is less than 500 psi.
- \* This gas is dedicated.
- \* The east half of section 15 is dedicated to the Fruitland Coal.

Date:	1/8/03	_ Drilling Engineer:	Erin Diles	
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