

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

JUL 11 2003

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Bureau of Land Management
Durango, Colorado

1a. Type of Work
DRILL

5. Lease Number
MOO-C-1420-0626
Unit Reporting Number

1b. Type of Well
GAS

6. If Indian, All. or Tribe

2. Operator
BURLINGTON
RESOURCES Oil & Gas Company

7. Unit Agreement Name

3. Address & Phone No. of Operator
PO Box 4289, Farmington, NM 87499
(505) 326-9700

8. Farm or Lease Name
Pinon Mesa A

9. Well Number
100

4. Location of Well
810' FSL, 670' FEL
Latitude 36° 51.1442'N, Longitude 108° 15.1771'W

10. Field, Pool, Wildcat
Basin Fruitland Coal

11. Sec., Twn, Rge, Mer. (NMPM)
Sec. 36, T-31-N, R-14-W
API # 30-045-32071

14. Distance in Miles from Nearest Town
10 miles from Farmington, NM

12. County
San Juan

13. State
NM

15. Distance from Proposed Location to Nearest Property or Lease Line
670'

16. Acres in Lease

17. Acres Assigned to Well
324.74 E/2

18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease
1269'

19. Proposed Depth
1869'

20. Rotary or Cable Tools
Rotary

21. Elevations (DF, FT, GR, Etc.)
5853' GR

22. Approx. Date Work will Start

23. Proposed Casing and Cementing Program
See Operations Plan attached

24. Authorized by: *Peggy Call*
Regulatory/Compliance Supervisor

SEE ATTACHED CONDITIONS OF APPROVAL
6-19-03

Venting / Flaring approved for 30 days per NTL-4A

PERMIT NO. _____ APPROVAL DATE _____ APPROVED FOR A PERIOD OF _____
NOT TO EXCEED 1 YEAR
DATE DEC 16 2003

APPROVED BY Brian W. Davis Acting Field Office Manager

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.

UNMOCD

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

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

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 15, 2000

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

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, NM 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045- 32071	² Pool Code 71629	³ Pool Name Basin Fruitland Coal
⁴ Property Code 7392	⁵ Property Name PINON MESA A	⁶ Well Number 100
⁷ GRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS, INC.	⁹ Elevation 5853'


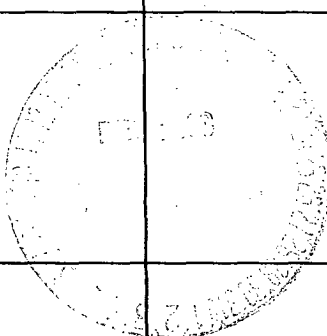

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	36	31-N	14-W		810'	SOUTH	670'	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
¹² Dedicated Acres E/324.74					¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.

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

¹⁶		¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  Signature Peggy Cole Printed Name Regulatory Supervisor Title 6-19-03 Date	
		UTE MTN MOO-C-1420-0626	
LOT 1		LOT 2 FD 3 1/4" B.L.M. AC 1985	
36		LOT 3 N 00-49-34 E 2641.82' (M)	
LAT. 36°51.1442' N (NAD 27) LONG. 108°15.1771' W		511'	
LOT 4		LOT 5 FD 3 1/4" B.L.M. AC 1985	
LOT 6 N 89-50-40 W 2639.94' (M)		LOT 7 670' FD 3 1/4" G.L.O. BC 1914	
		810'	
		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 is true and correct to the best of my belief.  Date of Survey Signature and Seal of Professional Surveyor 14827 Certificate Number	

OPERATIONS PLAN

Well Name: Pinon Mesa A #100
Location: 810' FSL, 670' FEL Section 36, T-31-N, R-14-W
Latitude 36° 51.1442'N, Longitude 108° 15.1771'W
San Juan County, NM
Formation: Basin Fruitland Coal
Elevation: 5853'GL

Formation:	Top	Bottom	Contents
Surface	Kirtland	1420'	
Fruitland	1420'	1665'	gas
Fruitland Coal	1665'	1669'	gas
Pictured Cliffs	1669'	1869'	gas
Total Depth	1869'		

Logging Program: Platform express TD-surface.

Mud log: 2 man unit from surface casing to TD

Coring Program: none

Mud Program:

Interval	Type	Weight	Vis.	Fluid Loss
0- 120'	Spud	8.4-9.0	40-50	no control
120-1869'	Non-dispersed	8.4-9.5	30-60	no control

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

Hole Size	Depth Interval	Csg. Size	Wt.	Grade
8 3/4"	0' - 120'	7"	20.0#	J-55
6 1/4"	0' - 1869'	4 1/2"	10.5#	J-55

Tubing Program:

0' - 1869'	2 3/8"	4.7#	J-55
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Float Equipment: 7" surface casing - saw tooth guide shoe. Centralizers will be run in accordance with Onshore Order #2.

4 1/2" production casing - guide shoe and self-fill float collar. Standard centralizers run every other joint for 300'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

Wellhead Equipment: 7" x 4 1/2" x 2 3/8" x 11" 2000 psi screw on independent wellhead.

Cementing:

7" surface casing - cement with 38 sx Class "B" Type III cement with 0.25 pps Celloflake and 3% calcium chloride (54 cu.ft. of slurry, 200% excess to circulate to surface). WOC 24 hours for pre-set holes or 8 hours for conventionally set holes before pressure testing or drilling out from under surface casing. Test casing to 600 psi for 30 minutes.

4 1/2" production casing - Lead w/82 sx Premium Lite cement w/3% calcium chloride, 1/4 pps Cello-flake, 5 pps LCM-1, 0.4% FL-52, and 0.4% SMS. Tail w/90 sx Type III cement w/1% calcium chloride, 1/4 pps Cello-flake, and 0.2% FL-52 (287 cu.ft. of slurry, 50% excess to circulate to surface.) If cement is not circulated to surface, a temperature survey or CBL will be run during drilling or completion operations to determine TOC.

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

BOP and tests:

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

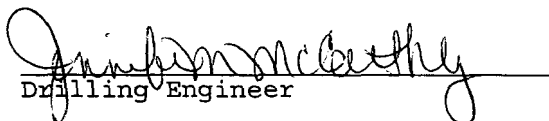
Completion - 7 1/16" 2000 psi (minimum) double gate BOP stack (Reference Figure #2). Prior to completion operations, test rams and casing to 2000 psi/15 min.

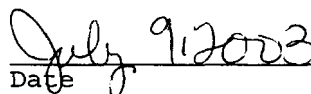
From surface to TD - choke manifold (Reference Figure #3).

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 and commingled.
- * Anticipated pore pressure for the Fruitland is 500 psi.
- * This gas is dedicated.
- * The east half of Section 36 is dedicated to the Fruitland Coal.


Drilling Engineer


Date