

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work
DRILL

1b. Type of Well
GAS

2. Operator
BURLINGTON RESOURCES Oil & Gas Company

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

4. Location of Well
1400' FSL, 2070' FEL
Latitude 36° 48.5, Longitude 107° 58.6

5. Lease Number
SF-078138
Unit Reporting Number

6. If Indian, All. or Tribe

7. Unit Agreement Name

8. Farm or Lease Name
Morris A

9. Well Number
13B

10. Field, Pool, Wildcat
Blanco Mesaverde/
Basin Dakota

11. Sec., Twn, Rge, Mer. (NMPM)
Sec. 15, T-30-N, R-11-W
API # 30-045-30840

12. County
San Juan

13. State
NM

14. Distance in Miles from Nearest Town
2.8 miles from Aztec, NM P.O.

15. Distance from Proposed Location to Nearest Property or Lease Line
1400'

16. Acres in Lease

17. Acres Assigned to Well
MV: E/317.66
DK: E/317.66

18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease
316'

19. Proposed Depth
7030'

20. Rotary or Cable Tools
Rotary

21. Elevations (DF, FT, GR, Etc.)
5884' GR

22. Approx. Date Work will Start

23. Proposed Casing and Cementing Program
See Operations Plan attached

24. Authorized by: [Signature]
Regulatory/Compliance Supervisor Date 9.11.01
High Priority: Within one mile of Aztec

PERMIT NO. _____ APPROVAL DATE 11/14/01

APPROVED BY [Signature] TITLE AFM DATE 11/14/01

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 section is subject to technical and procedural review pursuant to 43 CFR 2165.4 and appeal pursuant to 43 CFR 2165.4.

FARMINGTON COPY

DISTRICT I
P.O. Box 1980, Hobbs, N.M. 88241-1980

DISTRICT II
P.O. Drawer DD, Artesia, N.M. 88211-0719

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

DISTRICT IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, NM 87504-2088

Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-	² Pool Code 72319/71599	³ Pool Name Blanco Mesaverde/Basin Dakota
⁴ Property Code 7326	⁵ Property Name MORRIS A	⁶ Well Number 13B
⁷ OGRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS INC.	⁹ Elevation 5884

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
J	15	30-N	11-W		1400	SOUTH	2070	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 MV: E/317.66 DK: E/317.66			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 <u>Peggy Cole</u> Printed Name <u>Peggy Cole</u> Title <u>Regulatory Supervisor</u> Date <u>9-11-01</u>	
LOT 5		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 <u>9-11-01</u> Signature and Seal of Professional Surveyor <u>[Signature]</u> Certificate Number <u>8894</u>	
LOT 6		LOT 7	
LOT 8		LOT 9	
LOT 10		LOT 11	
LOT 12		LOT 13	
LOT 14		LOT 15	
LOT 16		LOT 17	
LOT 18		LOT 19	
LOT 20		LOT 21	
LOT 22		LOT 23	
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LOT 26		LOT 27	
LOT 28		LOT 29	
LOT 30		LOT 31	
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LOT 356		LOT 357	
LOT 358		LOT 359	
LOT 360		LOT 361	

BUR NGTON RESOURCES OIL & GAS INC.

MORRIS A #13B

SE/4 SEC.15, T-30-N, R-11-W, N.M.P.M.

SAN JUAN COUNTY, NEW MEXICO

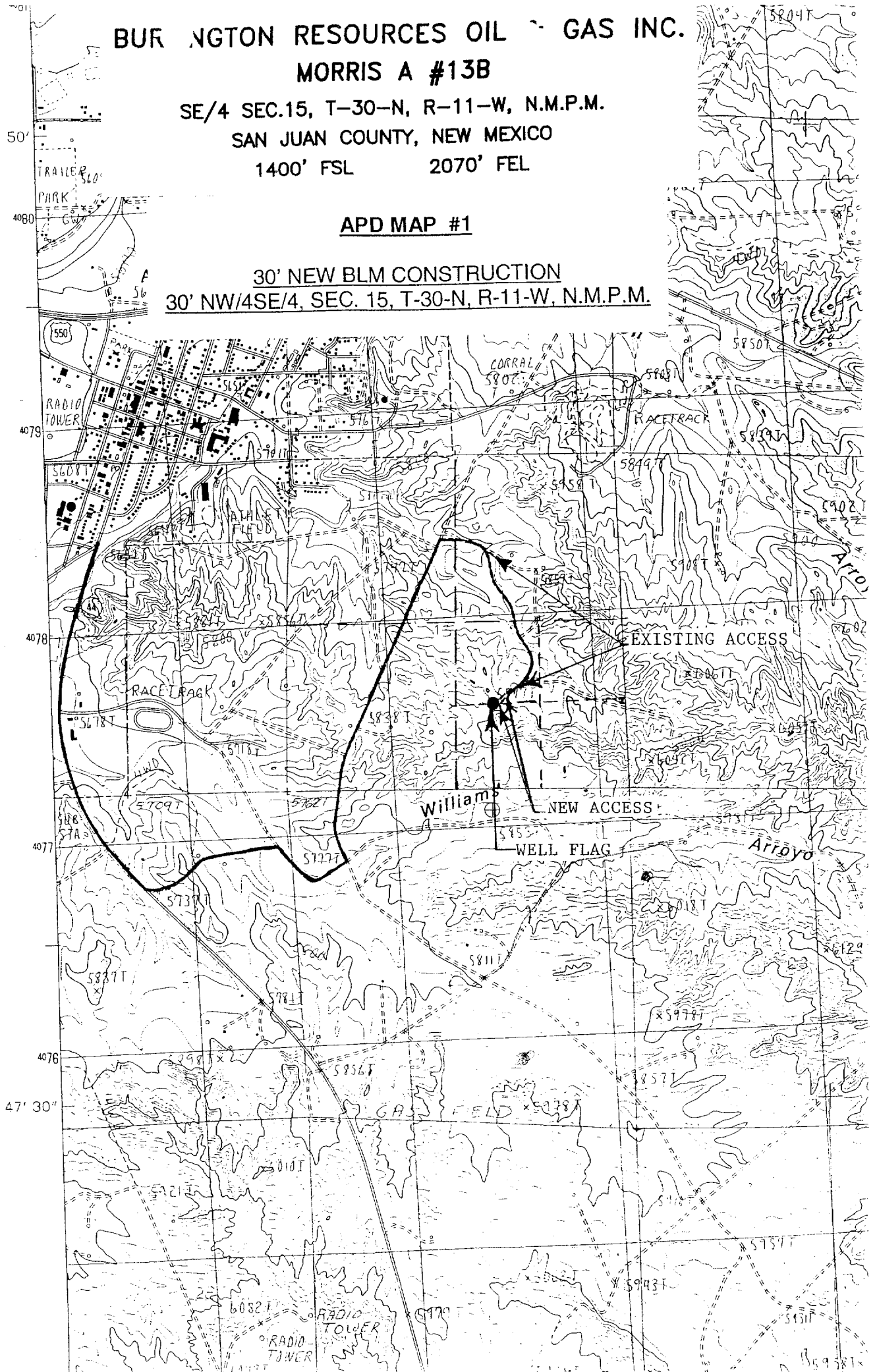
1400' FSL

2070' FEL

APD MAP #1

30' NEW BLM CONSTRUCTION

30' NW/4SE/4, SEC. 15, T-30-N, R-11-W, N.M.P.M.



OPERATIONS PLAN

Well Name: Morris A #13B
Location: 1400' FSL, 2070' FEL, Sec 15, T-30-N, R-11-W
San Juan County, NM
Latitude 36° 48.5, Longitude 107° 58.6
Formation: Blanco Mesaverde/Basin Dakota
Elevation: 5884' GL

<u>Formation Tops:</u>	<u>Top</u>	<u>Bottom</u>	<u>Contents</u>
Surface	San Jose	928'	
Ojo Alamo	928'	1028'	aquifer
Kirtland	1028'	1712'	gas
Fruitland	1712'	2302'	gas
Pictured Cliffs	2302'	2486'	gas
Lewis	2486'	3060'	gas
Intermediate TD	2586'		
Mesa Verde	3060'	3345'	gas
Chacra	3345'	4046'	gas
Massive Cliff House	4046'	4105'	gas
Menefee	4105'	4626'	gas
Massive Point Lookout	4626'	4967'	gas
Mancos	4967'	5876'	gas
Gallup	5876'	6613'	gas
Greenhorn	6613'	6666'	gas
Graneros	6666'	6726'	gas
Dakota	6726'		gas
TD	7030'		

Logging Program:

Cased hole - CBL-CCL-GR - TD to surface
Open hole - GR/AIT - TD to 3000'
RhoB/Neutron - TD to minimum operations depth.
Mudlog - 6513' to TD
Cores - none

Mud Program:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Vis.</u>	<u>Fluid Loss</u>
0- 200'	Spud	8.4-9.0	40-50	no control
200- 2586'	LSND	8.4-9.0	30-60	no control
2586- 6676'	Air/N2	n/a	n/a	n/a
6676- 7030'	LSND	8.4-9.0	30-60	no control

Pit levels will be visually monitored to detect gain or loss of fluid control.

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' - 200'	9 5/8"	32.3#	H-40
8 3/4"	0' - 2586'	7"	20.0#	J-55
6 1/4"	2486' - 7030'	4 1/2"	10.5#	J-55

Tubing Program:

0' - 7030' 2 3/8" 4.7# J-55

BOP Specifications, Wellhead and Tests:

Surface to Intermediate TD -

11" 3000 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" 3000 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, 3000 psi minimum choke manifold (Reference Figure #3).

Completion Operations -

7 1/16" 3000 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.

Wellhead -

9 5/8" x 7" x 2 3/8" x 3000 psi 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:

9 5/8" surface casing - cement with 159 sx Class "B" cement with 1/4# celloflake/sx and 3% calcium chloride (188 cu.ft. of slurry, 200% excess to circulate to surface). WOC 8 hrs. 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.

7" intermediate casing -

Lead w/257 sx 50/50 Class G/TXI lightweight w/2.5% sodium metasilicate, 2% calcium chloride, 10# gilsonite/sx and 1/2# celloflake/sx. Tail w/90 sx 50/50 Class "G" Poz w/2% calcium chloride, 2% gel, 1/4 pps celloflake, 5 pps gilsonite, 0.1% antifoam agent (777 cu.ft. of slurry, 100% excess to circulate to surface.) WOC minimum of 8 hours before drilling out intermediate casing. If cement does not circulate to surface, a CBL will be run during completion operations to determine TOC. Test casing to 1500 psi for 30 minutes.

See attached alternative intermediate lead slurry.

7" intermediate casing alternative two stage: Stage collar at 1612'. First stage: cement with 229 sx 50/50 Class "G" Poz w/2% calcium chloride, 2% gel, 1/4 pps celloflake, 5 pps gilsonite, 0.1% antifoam agent. Second stage: 188 sx 50/50 Class G/TXI lightweight w/2.5% sodium metasilicate, 2% calcium chloride, 10# gilsonite/sx and 1/2# celloflake/sx (777 cu.ft., 100% 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 at 1028'. Two turbolating centralizers at the base of the Ojo Alamo at 1028'. Bowspring centralizers spaced every fourth joint from the base of the Ojo Alamo to the base of the surface casing.