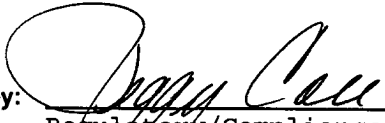


UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

RECEIVED

1a. Type of Work DRILL	5. Lease Number NMSF078505 Unit Reporting Number 070 Farmington, NM
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 Seymour 9. Well Number 2M
4. Location of Well 1065' FSL, 1940' FWL Latitude 36° 52.7487', Longitude 107° 44.0339'	10. Field, Pool, Wildcat Blanco Mesaverde/Basin Dakota 11. Sec., Twn, Rge, Mer. (NMPM) N Sec. 24, T-31-N, R-9-W API # 30-045-31803
14. Distance in Miles from Nearest Town 19 miles to P.O. in Aztec	12. County San Juan 13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1065'	
16. Acres in Lease	17. Acres Assigned to Well 314.74 w/2
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 1118'	
19. Proposed Depth 7945'	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6390' GR	22. Approx. Date Work will Start
23. Proposed Casing and Cementing Program See Operations Plan attached	
24. Authorized by:  Regulatory/Compliance Supervisor	Date 5-27-03

PERMIT NO.

APPROVAL DATE

APPROVED BY **David J. Markiewicz**

TITLE

DATE NOV 13 2003

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.

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

NMOCDD

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

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

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised February 21, 1994

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

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

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

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, NM 87504-2088

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045- 31803	² Pool Code 72319/71599	³ Pool Name Blanco Mesaverde/Basin Dakota
⁴ Property Code 7499	⁵ Property Name SEYMOUR	⁶ Well Number 2M
⁷ GRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS INC.	⁹ Elevation 6390

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
N	24	31-N	9-W		1065	SOUTH	1940	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
¹² Dedicated Acres W/314.74					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

<div><div>18</div><div>LOT 4</div></div> <div><div>LOT 3</div><div>LOT 2</div></div> <div><div>LOT 1</div><div>LOT 5</div></div> <div><div>LOT 6</div><div>LOT 7</div></div> <div><div>LOT 8</div><div>LOT 12</div></div> <div><div>LOT 11</div><div>LOT 10</div></div> <div><div>LOT 9</div><div>LOT 13</div></div> <div><div>LOT 14</div></div>				<div>17</div> <div>OPERATOR CERTIFICATION</div> <div>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</div> <div><div>Signature</div><div>Peggy Cole</div></div> <div><div>Printed Name</div><div>Regulatory Supervisor</div></div> <div><div>Title</div><div>5-27-03</div></div> <div><div>Date</div><div></div></div>	
<div>USA SF-078505</div> <div>FD 3 1/4" BLM 1986 BRASS CAP</div> <div>N 01°18'31" E 2628.66' (M)</div> <div>1940'</div> <div>637'</div> <div>664'</div> <div>1065'</div> <div>N 89°35'26" E 2604.4' (M)</div> <div>FD 3 1/4" BLM 1986 BRASS CAP</div> <div>LAT: 36°52.7487' N. (NAD 27)</div> <div>LONG: 107°44.0339' W. (NAD 27)</div> <div>WIN Farmington, NM</div> <div>208 JUL 23 PM 2:40</div>				<div>18</div> <div>SURVEYOR CERTIFICATION</div> <div>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.</div> <div><div>Date of Survey</div><div>4-23-03</div></div> <div><div>Signature and Seal of Professional Surveyor</div><div>GLEN W. RUSSELL</div></div> <div><div>15703</div><div>15703</div></div> <div><div>Certificate Number</div><div></div></div>	

RECEIVED

OPERATIONS PLAN

Well Name: Seymour #2M
Location: 1065' FSL, 1940' FWL, Sec 24, T-31-N, R-9-W
San Juan County, NM
Latitude 36° 52.7487', Longitude 107° 44.0339'
Formation: Blanco Mesaverde/Basin Dakota
Elevation: 6390' GL

<u>Formation Tops:</u>	<u>Top</u>	<u>Bottom</u>	<u>Contents</u>
Surface	San Jose	1952'	
Ojo Alamo	1952'	2032'	aquifer
Kirtland	2032'	2912'	gas
Fruitland	2912'	3232'	gas
Pictured Cliffs	3232'	3352'	gas
Lewis	3352'	3952'	gas
Intermediate TD	3452'		
Huerfano Bentonite	3952'	4322'	gas
Chacra	4322'	5072'	gas
Massive Cliff House	5072'	5132'	gas
Menefee	5132'	5472'	gas
Massive Point Lookout	5472'	5842'	gas
Mancos	5842'	6787'	
Gallup	6787'	7484'	gas
Greenhorn	7484'	7537'	
Graneros	7537'	7610'	
Two Wells	7610'	7787'	gas
Encinal Canyon	7787'	7867'	gas
Burro Canyon	7867'	7897'	gas
Morrison	7897'		
TD	7945'		

Logging Program:

Cased hole - CBL/CCL/GR - TD to surface
Open hole - none
Mud Log - 7400' to TD
Cores - none

Mud Program:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Vis.</u>	<u>Fluid Loss</u>
0- 120'	Spud	8.4-9.0	40-50	no control
120- 3452'	LSND	8.4-9.0	30-60	no control
3452- 7945'	Air/N2	n/a	n/a	n/a

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' - 120'	9 5/8"	32.3#	H-40
8 3/4"	0' - 3452'	7"	20#	J55
6 1/4"	0' - 7945'	4 1/2"	10.5#	J-55

Tubing Program:

0' - 7945' 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, BOPE 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, BOPE 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.

Wellhead -

9 5/8" x 7" x 4 1/2" x 2 3/8" x 2000 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 32 sxs 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.

Saw tooth guide shoe on bottom. Bowspring centralizers will be run in accordance with Onshore Order #2.

7" intermediate casing -

Lead w/309 sx Premium Lite with 3% calcium chloride, 0.25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate. Tail with 90 sx Type III cmt w/1% calcium chloride, 0.25 pps celloflake, 0.2% fluid loss (782 cu.ft. of slurry, 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 temperature survey will be run to determine TOC. Test casing to 1500 psi for 30 minutes.

7" intermediate casing alternative two stage: Stage collar at 2612'. First stage: Pump 31 sxs Premium Lite with 3% calcium chloride, 0.25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate. Tail w/90 sx Type III cmt w/1% calcium chloride, 0.25 pps celloflake, 0.2% fluid loss. Second stage: w/277 sx Premium Lite with 3% calcium chloride, 0.25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate (782 cu.ft. of slurry, 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 at 2032'. Two turbolating centralizers at the base of the Ojo Alamo at 2032'. 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 -
Pump 303 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 (600
cu.ft., 30% excess to cmt 7" & 4 1/2" overlap). WOC a minimum
of 18 hrs prior to completing.

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

Cement float shoe on bottom with float collar spaced on top of
float shoe.

- 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 (Gas/Mist Drilling):

The following equipment will be operational while gas/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.
- Deduster equipment will be utilized.
- 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 Dakota and Mesa Verde 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	1000 psi
- Sufficient LCM will be added to the mud system to maintain well
control, if lost circulation is encountered.
- The northeast quarter is dedicated to the Chacra and the north half
of Section 13 is dedicated to the Mesa Verde and Dakota in this well.
- This gas is dedicated.

Sean Conner
Drilling Engineer

July 2, 2003