

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	5. Lease Number SF-078505 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 Seymour 9. Well Number #2C
4. Location of Well 1500' FNL, 790' FWL Latitude 36° 53.2', Longitude 107° 44.3'	10. Field, Pool, Wildcat Blanco Mesaverde/ Basin Dakota 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 24, T-31-N, R-9-W API # 30-045- 30174
14. Distance in Miles from Nearest Town 6 mi from Navajo Dam P.O.	12. County San Juan 13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 790'	
16. Acres in Lease	17. Acres Assigned to Well 320 W/2 314.74
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 400'	
19. Proposed Depth 8000'	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6410' GL	22. Approx. Date Work will Start
23. Proposed Casing and Cementing Program See Operations Plan attached	
24. Authorized by: <i>[Signature]</i> Regulatory/Compliance Administrator	<i>2-25-00</i> Date

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY /s/ Charlie Beecham TITLE Part of Seymour #2A MU DATE MAR 31 2000

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.

District II
PO Drawer DD, Artesia, NM 88211-0718

District III
1000 Rio Brazos Rd., Aztec, NM 87410

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

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised February 21, 1994

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

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

RECEIVED
OIL CON. DIV
DIST. 3

2088
2088-10-10-1: 7 AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-30174		*Pool Code 72319/71599	*Pool Name Blanco Mesaverde/Basin Dakota	
*Property Code 7499	*Property Name SEYMOUR			*Well Number 2C
*OGRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY			*Elevation 6410'

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
E	24	31N	9W		1500	NORTH	790	WEST	SAN JUAN

¹¹Bottom 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 Areas MV-W/320 DK-W/320	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

15		5225.88'		17 OPERATOR CERTIFICATION	
LOT 4 1500' 2A		LOT 3 LOT 2 LOT 1		I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.	
790'		LOT 5 LOT 6 LOT 7 LOT 8		Signature Peggy Cole Printed Name Regulatory Administrator Title 2-25-00	
5256.24'		SF-078505 24		Date 2-25-00	
LOT 12 LOT 11 LOT 10 LOT 9		LOT 13 LOT 14		18 SURVEYOR CERTIFICATION	
2604.36'		2670.36'		I hereby certify that the well location shown on this map was plotted from field notes of actual surveys made by or under my supervision, and that the same is true and correct to the best of my belief.	
				DECEMBER 17, 1999	
				Date of Survey	
				Signature and Seal of Professional Surveyor	
				NEALE C. EDWARDS NEW MEXICO 6857 PROFESSIONAL SURVEYOR	
				Certificate Number 6857	

OPERATIONS PLAN

Well Name: Seymour #2C
Location: 1500' FNL, 790' FWL, Sec 24, T-31-N, R-9-W
San Juan County, NM
Latitude 36° 53.2, Longitude 107° 44.3
Formation: Blanco Mesa Verde/ Basin Dakota
Elevation: 6410' GL

<u>Formation Tops:</u>	<u>Top</u>	<u>Bottom</u>	<u>Contents</u>
Surface	San Jose	1962'	
Ojo Alamo	1962'	2047'	aquifer
Kirtland	2047'	2692'	gas
Fruitland	2692'	3262'	gas
Pictured Cliffs	3262'	3383'	gas
Lewis	3383'	3963'	gas
Intermediate TD	3483'		
Mesa Verde	3963'	4342'	gas
Chacra	4342'	5090'	gas
Massive Cliff House	5090'	5157'	gas
Menefee	5157'	5492'	gas
Massive Point Lookout	5492'	5850'	gas
Mancos	5850'	6793'	gas
Gallup	6793'	7522'	gas
Greenhorn	7522'	7577'	gas
Graneros	7577'	7642'	gas
Dakota	7642'	7960'	gas
Morrison	7960'		gas
TD (4 1/2" liner)	8000'		

Logging Program:

Cased hole - IEL-GR, CNL-CDL, CBL-CCL-GR - TD to surface

Mud Program:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Vis.</u>	<u>Fluid Loss</u>
0- 500'	Spud	8.4-9.0	40-50	no control
500- 3483'	LSND	8.4-9.0	30-60	no control
3483- 8000'	Gas	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>Csq. Size</u>	<u>Wt.</u>	<u>Grade</u>
17 1/2"	0' - 500'	13 3/8"	48#	H-40
10 5/8"	0' - 3483'	8 5/8"	32#	J-55
7 7/8"	3383' - 8000'	5 1/2"	15.5#	J-55

Tubing Program:

0' - 8000'	1 1/2"	2.90# EUE
0' - 5850'	1 1/2"	2.75# IJ

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, rams 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, rams 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 -

13 3/8" x 8 5/8" x 1 1/2" x 1 1/2" x 5000 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:

13 3/8" surface casing - cement with 885 sx Class "B" cement with 1/4# flocele/sx and 3% calcium chloride (1042 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.

8 5/8" intermediate casing -

Lead w/450 sx Class "B" w/3% sodium metasilicate, 5# gilsonite/sx and 1/4# flocele/sx. Tail w/90 sx Class "B" w/2% calcium chloride, 2% sodium metasilicate, 0.25 pps flocele, 5 pps gilsonite (1463 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.

8 5/8" intermediate casing alternative two stage: Stage collar at 2592'. First stage: cement with 218 sx Class "B" cmt with 5 pps gilsonite, 1/4 pps flocele, 2% metasilicate, 2% calcium chloride. Second stage: 374 sx Class "B" with 3% sodium metasilicate, 1/4 pps flocele, 5 pps Gilsonite (1463 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 2047'. Two turbolating centralizers at the base of the Ojo Alamo at 2047'. Bowspring centralizers spaced every fourth joint from the base of the Ojo Alamo to the base of the surface casing.

5 1/2" Production Liner -

Cement to cover minimum of 100' of 5 1/2" x 8 5/8" overlap. Lead with 869 sx 50/50 Class "H" Poz with 2% gel, 0.25 flocele/sx, 5# gilsonite/sx, 0.2% retardant and 0.4% fluid loss additive (1120 cu.ft.), 50% excess to cement 5 1/2" x 8 5/8" overlap). WOC a minimum of 18 hrs prior to completing.

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

Note: To facilitate higher hydraulic stimulation completion work, no liner hanger will be used. In its place, a long string of 5 1/2" casing will be run and cemented with a minimum of 100' of cement overlap between the 5 1/2" x 8 5/8" casing strings. After completion of the well, a 5 1/2" retrievable bridge plug will be set below the top of cement in the 5 1/2" x 8 5/8" overlap. The 5 1/2" casing will then be backed off above the top of cement in the 5 1/2" x 8 5/8" overlap and laid down. The 5 1/2" bridge plug will then be retrieved and the production tubing will be run to produce the well.

- 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):

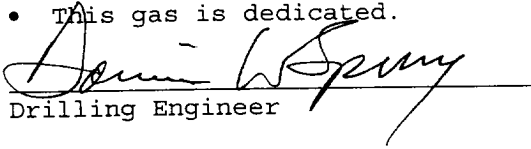
The following equipment will be operational while gas/mist drilling:

- 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 dualled.
- No abnormal temperatures or hazards are anticipated.
- Anticipated pore pressures are as follows:

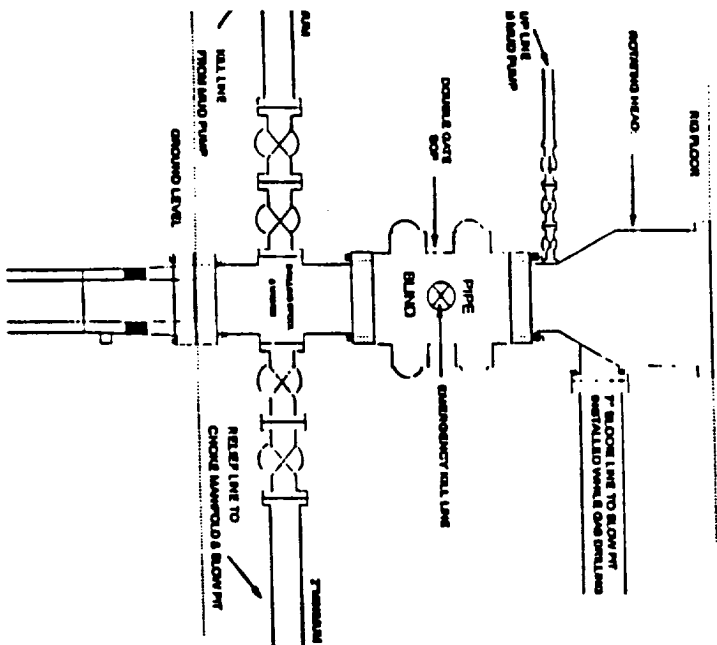
Fruitland Coal	300 psi
Pictured Cliffs	600 psi
Mesa Verde	700 psi
Dakota	2500 psi
- Sufficient LCM will be added to the mud system to maintain well control, if lost circulation is encountered.
- The west half of Section 24 is dedicated to the Mesaverde and Dakota in this well.
- This gas is dedicated.


Drilling Engineer3/7/00
Date

BOP Configuration 2M psi System

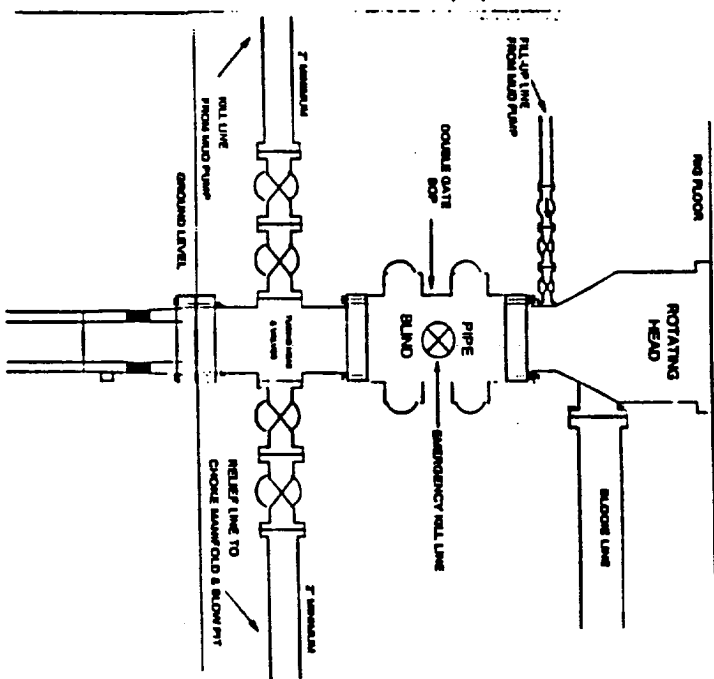
BURLINGTON RESOURCES

BOP Configuration 2M psi System



Bore, 2000psi minimum working pressure double gate BOP to be equipped with blind and pipe rams. A Schaeffer Type 80 or equivalent rotating head to be installed on the top of the BOP. All equipment to 2000psi working pressure or better.

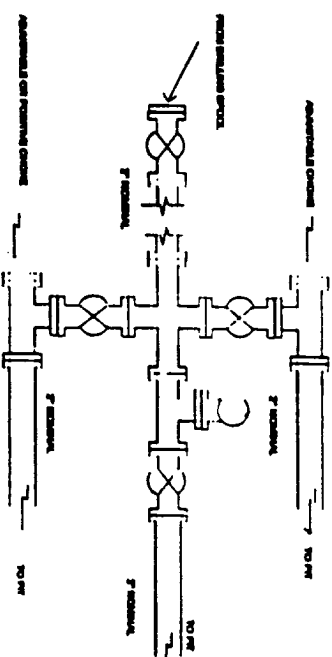
FIGURE #1



Minimum BOP installation for Completion operations. 7 1/16" Bore (6" Nominal), 2,000 psi minimum working pressure double gate BOP to be equipped with blind and pipe rams.

FIGURE #2

Choke Manifold Configuration 2M System



Minimum choke manifold installation from surface to Total Depth. 2" minimum, 2000psi working pressure equipment with two chokes.

Figure #3