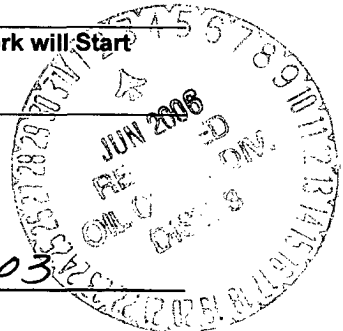


UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	5. Lease Number NMSF-078092 Unit Reporting Number Farmington, NM	
1b. Type of Well GAS	6. If Indian, All. or Tribe	
2. Operator <b>BURLINGTON RESOURCES</b> 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 Douthit A Federal 9. Well Number 271	
4. Location of Well 1950' FNL, 2450' FEL  Latitude 36° 32.8870'N, Longitude 107° 59.3985'W	10. Field, Pool, Wildcat Basin Fruitland Coal  11. Sec., Twn, Rge, Mer. (NMPM) Sec. 27, T-27-N, R-11-W API # 30-045- 31799	
14. Distance in Miles from Nearest Town Bloomfield - 13 Miles	12. County San Juan	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1950'	17. Acres Assigned to Well N/2 320	
16. Acres in Lease		
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 1800'		
19. Proposed Depth 2177'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6386 Gr	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u><i>Sherry Cace</i></u> Regulatory/Compliance Supervisor	Date	<u>7-7-03</u>



PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
APPROVED BY *[Signature]* TITLE AFM DATE 5/31/06

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

NMOC

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

District I  
PO Box 1980, Hobbs, NM 88241-1980

State of New Mexico  
Energy, Minerals & Natural Resources Department

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

District II  
PO Drawer DD, Artesia, NM 88211-0719

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

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-31799		*Pool Code 71629	*Pool Name Basin Fruitland Coal
*Property Code 6958	*Property Name DOUTHIT A FEDERAL		*Well Number 271
*GRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY, LP		*Elevation 6386'

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	27	27N	11W		1950	NORTH	2450	EAST	SAN JUAN

<sup>11</sup> 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

<sup>12</sup> Dedicated Acres N/2 320	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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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><p><sup>16</sup></p><p>5277.36'</p><p>1950'</p><p>USA SF-078092</p><p>185'</p><p>LAT: 36°32.8870' N LONG: 107°59.3985' W</p><p>2450'</p><p>690'</p><p>5280.00'</p><p>27</p><p>5278.02'</p><p>070 Farmington, NM</p><p>JUL 22 PM 1:31</p><p>RECEIVED</p></div>	<div><p><sup>17</sup> OPERATOR CERTIFICATION</p><p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</p><p><i>Peggy Cole</i></p><p>Signature</p><p>Peggy Cole</p><p>Printed Name</p><p>Regulatory Supervisor</p><p>Title</p><p>7-7-03</p><p>Date</p></div> <div><p><sup>18</sup> SURVEYOR CERTIFICATION</p><p>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.</p><p>Date of Survey: MARCH 7, 2003</p><p>Signature and Seal of Professional Surveyor</p><div><p>JASON C. EDWARDS</p><p>NEW MEXICO</p><p>15269</p><p>REGISTERED PROFESSIONAL SURVEYOR</p></div><p>JASON C. EDWARDS</p><p>Certificate Number 15269</p></div>
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DATUM: NADI927

Reserve Pit Dike: to be 8' above Deep side (overflow - 3' wide and 1' above shallow side)  
Blow Pit: overflow pipe halfway between top and bottom and to extend over plastic liner and into blow pit.

C-C'						
6396'						
6386'						
6376'						

Note: Contractor should call One-Call for location of any marked or unmarked buried pipelines or cables on well pad and/or access road at least two (2) working days prior to construction

## OPERATIONS PLAN

**Well Name:** Douthit A Federal 271  
**Location:** 1950' FNL, 2450'' FEL Section 27, T-27-N, R-11-W  
San Juan County, NM  
**Formation:** Basin Fruitland Coal  
**Elevation:** 6386' GR

Formation:	Top	Bottom	Contents
Surface	San Jose	913'	
Ojo Alamo	913'	1023'	aquifer
Kirtland	1023'	1488'	gas
Fruitland	1488'	1774'	gas
T/Coal	1774'	1979'	gas
B/Basal Coal	1979'	1977'	gas
Pictured Cliffs	1977'	2177'	gas
Total Depth	2177'		

**Logging Program:** TD to Surface, GR/Density/Caliper, 2" & 5" presentations.  
**Mudlog:** None

**Coring Program:** none

**Mud Program:**

Interval	Type	Weight	Vis.	Fluid Loss
0- 120'	Spud	8.4-9.0	40-50	no control
120-2177'	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' - 2177'	4 1/2"	10.5#	J-55

**Tubing Program:**

0' - 2177'	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. Three centralizers run every other joint above shoe. Seven centralizers run every 3<sup>rd</sup> joint to the base of the Ojo Alamo @ 1023'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 1023'. 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 46 sx Class A, B Portland Type I, II cement (54 cu.ft. of slurry, bring cement to surface) or equivalent. Wait on cement for 24 hours for pre-set holes or 8 hrs for conventionally set holes before pressure testing or drilling out from under surface. Test casing to 600 psi for 30 minutes.

4 1/2" production casing - Lead w/99 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 (335 cu.ft. of slurry, 50% excess to circulate to surface.) If cement is not circulated to surface, a temp survey or CBL will be run during drilling or completion operations to determine TOC.

4 1/2" production casing alternative two stage: Stage collar 1572'. First stage: cement with w/175 sx Type III cmt w/1% calcium chloride, 0.25 pps Flocele, 0.2% fluid loss. Second stage: 46 sx Premium Lite cmt with 3% calcium

chloride, 0.25 pps Flocele, 5 ps LCM-1, 0.4% fluid loss, 0.4% SMS (340 cu.ft., 50% 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 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 to 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.

**BOP and tests (If a coiled tubing drilling (CTD) rig is utilized.):**

Surface to TD: 7-1/16" 2000 psi (minimum) Torus annular BOP stack (Reference Figure #1b). Prior to drilling out surface casing, test annular BOP to 600psi/30 min.

Completion: 7-1/16" 2000 psi (minimum) double gate BOP stack (Reference Figure #2). Prior to completion operations, test blind rams and casing to 1500 psi for 30 minutes; all pipe rams and casing to 1500 psi for 30 minutes each.

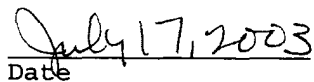
From surface to TD: choke manifold (Reference Figure #3).

The annular BOP will be actuated to close on drill pipe (coiled tubing) at least once each day and to close on open hole once each trip to test proper functioning.

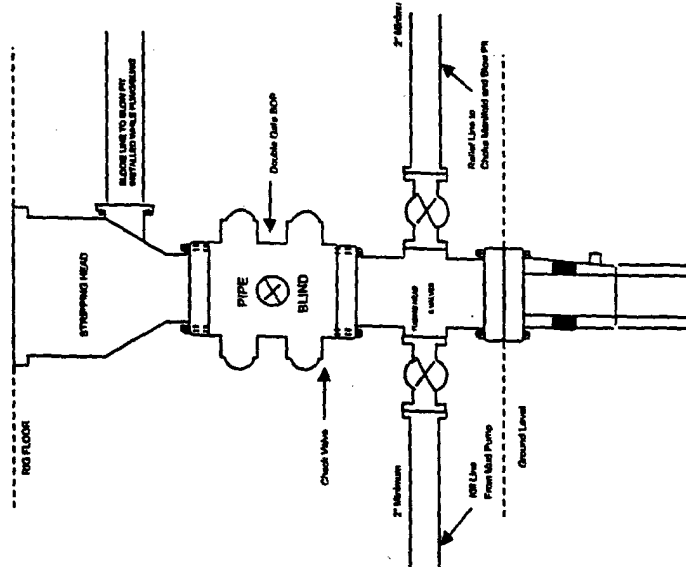
**Additional information:**

- \* Anticipated pore pressure for the Fruitland is 500 psi.
- \* This gas is dedicated.
- \* The North half of Section 27 is dedicated to the Fruitland Coal.

  
Drilling Engineer

  
Date

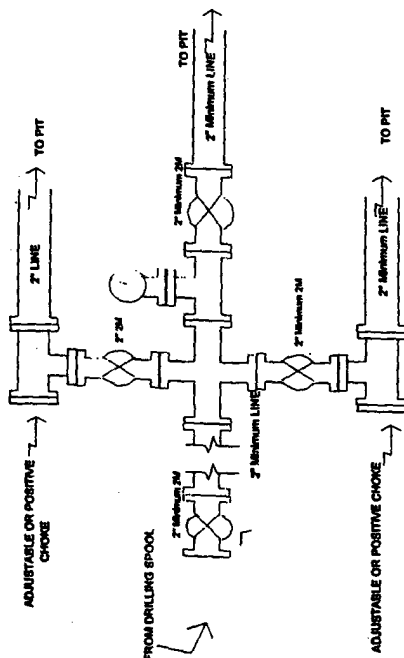
Completion/Workover Rig  
BOP Configuration  
2,000 psi System



Minimum BOP Installation for all Completion/Workover Operations. 7-1/16" bore, 2000 psi minimum working pressure double gate BOP to be equipped with blind and pipe rams. A stripping head to be installed on the top of the BOP. All BOP equipment is 2000 psi working pressure or greater excluding 500 psi stripping head.

Figure #2

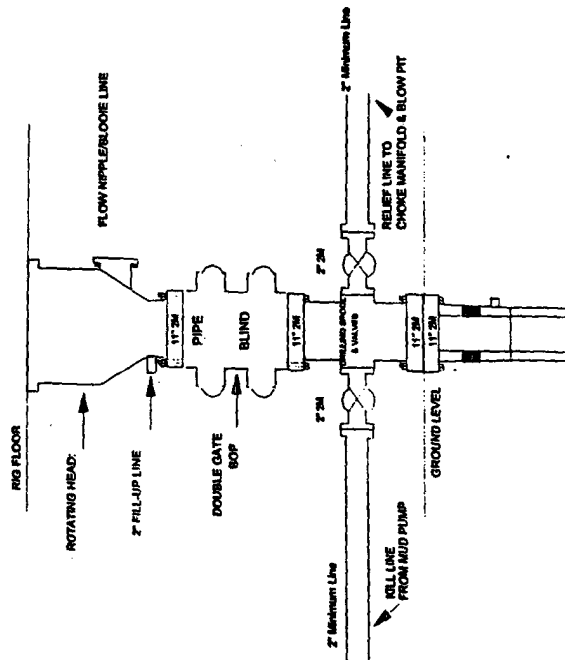
Drilling Rig  
Choke Manifold Configuration  
2000 psi System



Choke manifold Installation from Surface Casing Point to Total Depth. 2,000psi working pressure equipment with two chokes.

Figure #3

Drilling Rig  
2000 psi System

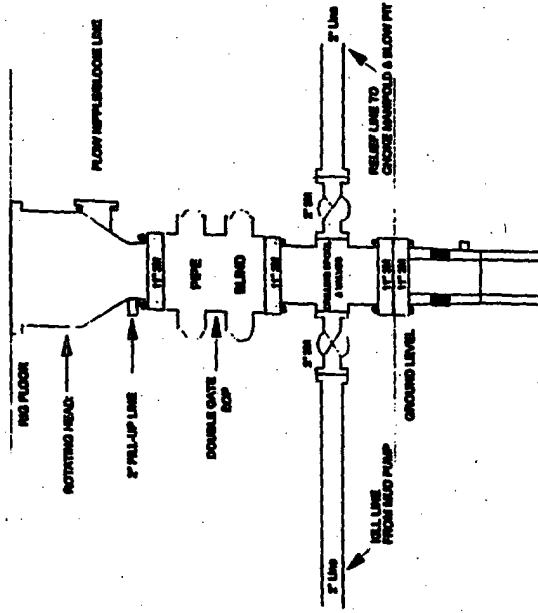


BOP Installation from Surface Casing Point to Total Depth. 11" Bore 10" Nominal, 2000 psi working pressure double gate BOP to be equipped with blind rams and pipe rams. A 500 psi rotating head on top of ram preventers. All BOP equipment is 2,000 psi working pressure

Figure #1

# Burlington Resources

## Drilling Rig 3000 psi System



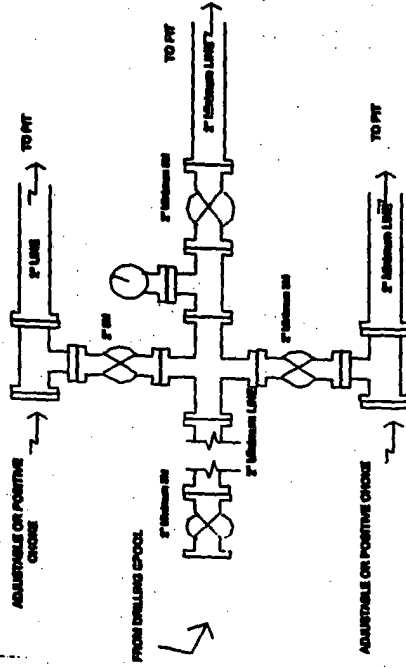
BOP Installation from Surface Casing Point to Total Depth. 11" Bore 10" Nominal, 3000 psi working pressure double gate BOP to be equipped with blind rams and pipe rams. A 500 psi rotating head on top of ram preventer. All BOP equipment is 3,000 psi working pressure.

Figure #1

4-20-01

# BURLINGTON RESOURCES

## Drilling Rig Choke Manifold Configuration 3000 psi System

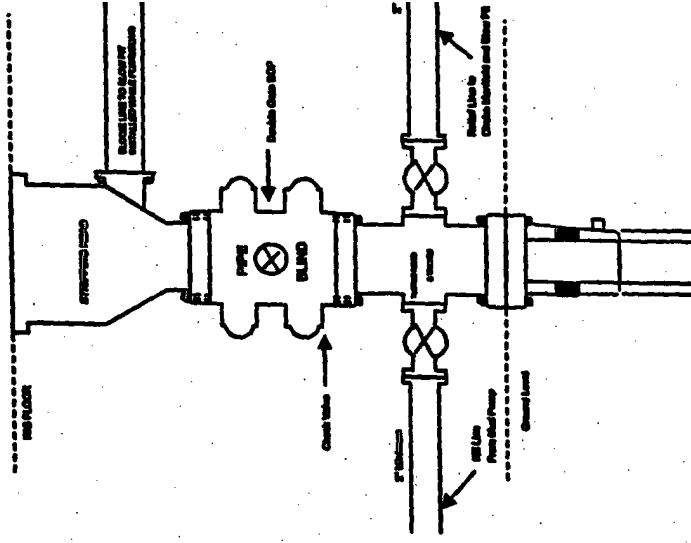


Choke manifold installation from Surface Casing Point to Total Depth. 3,000psi working pressure equipment with two chokes.

Figure #2

4-20-01

## Completion/Workover Rig BOP Configuration 3,000 psi System



Minimum BOP Installation for all Completion/Workover Operations. 7-1/16" bore, 3000 psi minimum working pressure double gate BOP to be equipped with blind and pipe rams. A stripping head to be installed on the top of the BOP. All BOP equipment is 3000 psi working pressure or greater excluding 500 psi stripping head.

Figure #3

4-20-01