

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 NMSF-079037 Unit Reporting Number 070 Farmington, NM
1b. Type of Well GAS	6. If Indian, All. or Tribe
2. Operator <b>BURLINGTON</b> 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 Hale 9. Well Number #352S
4. Location of Well 1770' FSL, 1755' FEL Latitude 36° 51.9834, Longitude 107° 39.5455	10. Field, Pool, Wildcat Basin Fruitland Coal 11. Sec., Twn, Rge, Mer. (NMPM) ✓ Sec. 27, T31N, R8W API # 30-045- 31952
14. Distance in Miles from Nearest Town 30.6 miles from Blanco	12. County San Juan 13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1755'	17. Acres Assigned to Well 320 E/2
16. Acres in Lease	
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 21'	
19. Proposed Depth 3196'	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6225' GR	22. Approx. Date Work will Start
23. Proposed Casing and Cementing Program See Operations Plan attached	
24. Authorized by: <u>Tammy Wimsatt</u> Regulatory Specialist	<u>10-6-03</u> Date

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

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

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

NMOC

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

State of New Mexico  
Energy, Minerals & Natural Resources Department

Form C-102  
Revised August 15, 2000

DISTRICT II  
811 South First, Artesia, N.M. 88210

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

2040 South Pacheco  
Santa Fe, NM 87505

☐ AMENDED REPORT

DISTRICT IV  
2040 South Pacheco, Santa Fe, NM 87505

## WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-045-31952	<sup>2</sup> Pool Code 71629	<sup>3</sup> Pool Name Basin Fruitland Coal
<sup>4</sup> Property Code 18534	<sup>5</sup> Property Name HALE	<sup>6</sup> Well Number 352S
<sup>7</sup> OGRID No. 14538	<sup>8</sup> Operator Name BURLINGTON RESOURCES OIL AND GAS, INC.	<sup>9</sup> Elevation 6225'

### <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
J	27	31-N	8-W		1770'	SOUTH	1755'	EAST	SAN JUAN

### <sup>11</sup> Bottom Hole Location If Different From Surface

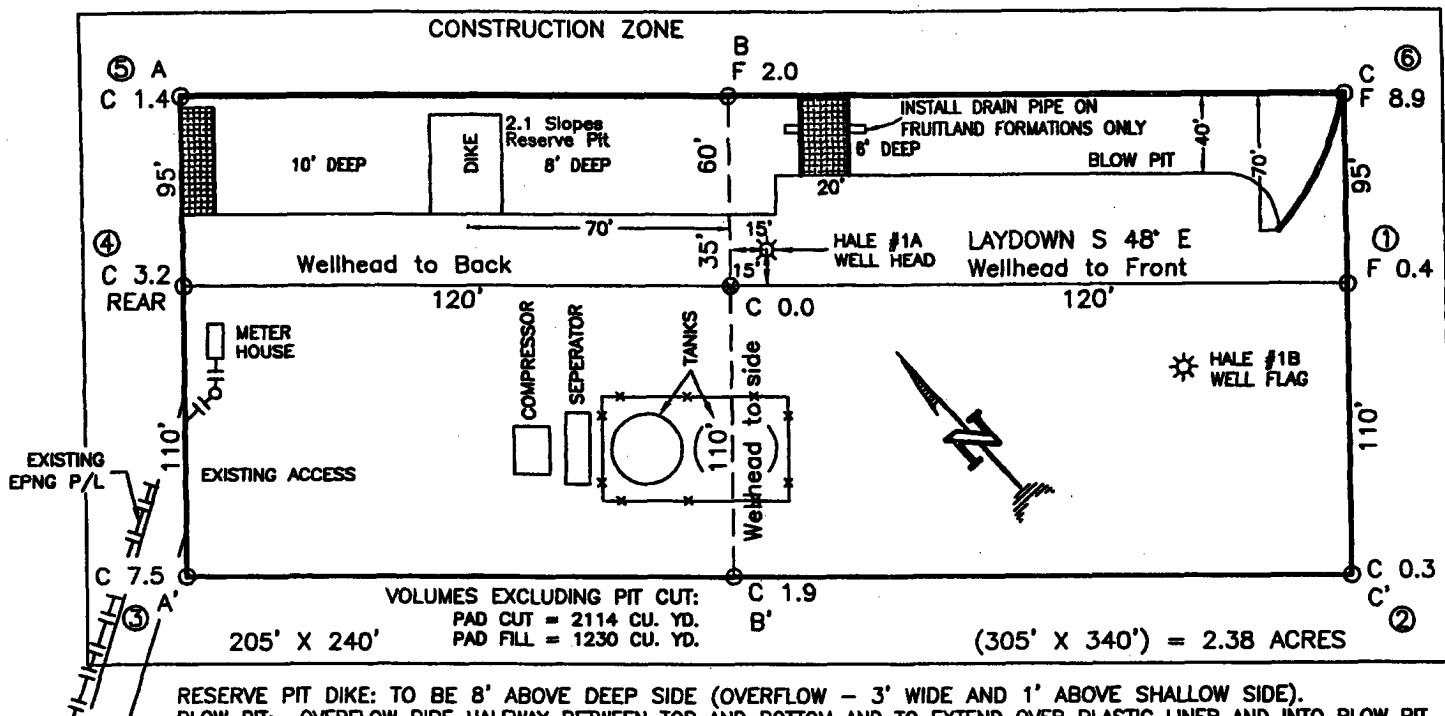
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

<sup>12</sup> Dedicated Acres E/320	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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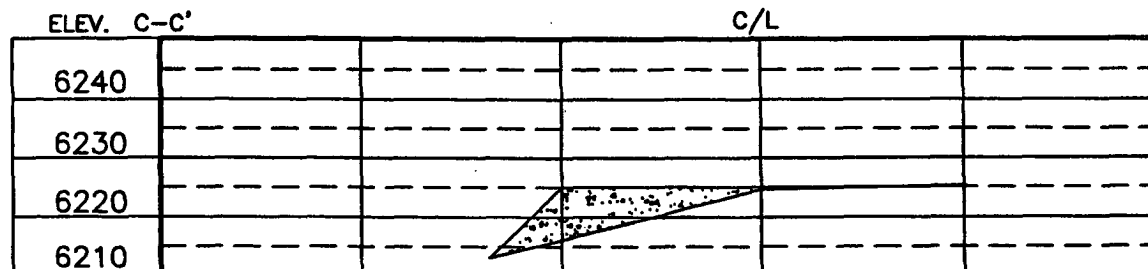
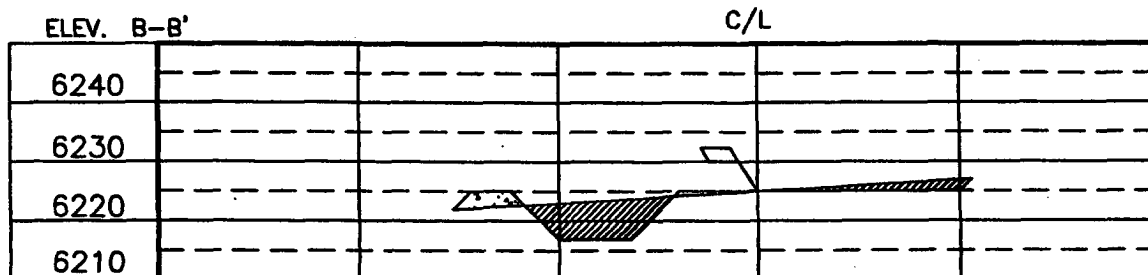
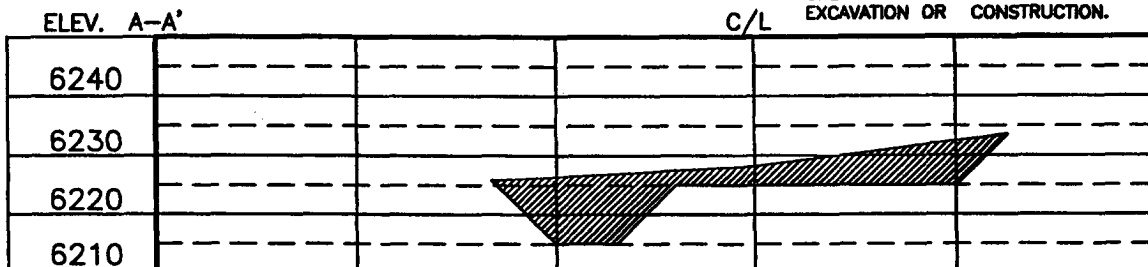
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<div>16</div> <div></div>	<div>17 OPERATOR CERTIFICATION</div> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><u>Tammy Wimsatt</u> Signature <u>TAMMY WIMSATT</u> Printed Name <u>Regulatory Specialist</u> Title <u>10-6-03</u> Date</p>
<div>18 SURVEYOR CERTIFICATION</div> <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><u>SEP 10 2002</u> Date of Survey <u>NEW MEXICO</u> Signature and Seal of Professional Surveyor: <u>14827</u> Certificate Number</p>	

**BURLINGTON RESOURCES OIL & GAS, INC.**  
**HALE No. 352S, 1770' FSL 1755' FEL**  
**SECTION 27, T-31-N, R-8-W, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO**  
**GROUND ELEVATION: 6225', DATE: AUGUST 30, 2002**



NOTE: DAGGETT ENTERPRISES, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. NEW MEXICO ONE CALL TO BE NOTIFIED 48 HOURS PRIOR TO EXCAVATION OR CONSTRUCTION.



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:** Hale #352S  
**Location:** 1770' FSL, 1755' FEL, Section 27, T-31-N, R-8-W  
Latitude 36° 51.9834, Longitude 107° 39.5455  
San Juan County, NM  
**Formation:** Basin Fruitland Coal  
**Elevation:** 6225' GR

Formation:	Top	Bottom	Contents
Surface	San Jose	1966'	
Ojo Alamo	1966'	2073'	aquifer
Kirtland	2073'	2602'	gas
Fruitland	2602'	2867'	gas
Intermediate casing	2817'		
Top of Coal	2867'	3111'	
Base of Coal	3111'	3121'	
Pictured Cliffs	3121'		
Total Depth	3196'		

**Logging Program:**

Open hole - None  
Mud log - 7" to 2817'

**Coring Program:** none

**Mud Program:**

Interval	Type	Weight	Vis.	Fluid Loss
0- 120'	Spud	8.4-9.0	40-50	no control
120-2817'	Non-dispersed	8.4-9.0	30-60	no control
2817-3196'	Air/Mist			no control

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

Hole Size	Depth Interval	Csg. Size	Wt.	Grade
12 1/4"	0' - 120'	9 5/8"	32.3#	H-40
8 3/4"	0' - 2817'	7"	20.0#	J-55
6 1/4"	2817' - 3196'	open hole		

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

Hole Size	Depth Interval	Csg. Size	Wt.	Grade
12 1/4"	0' - 120'	9 5/8"	32.3#	H-40
8 3/4"	0' - 2817'	7"	20.0#	J-55
6 1/4"	2777' - 3196'	5 1/2"	15.5#	J-55

**Tubing Program:**

0' - 3196'      2 3/8"      4.7#      J-55

**Float Equipment:** 9 5/8" surface casing - saw tooth guide shoe.  
Centralizers will be run in accordance with Onshore Order #2.

7" intermediate casing - guide shoe and self-fill float collar.  
Standard centralizers run every other joint above shoe. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 2073'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

**Wellhead Equipment:** 9 5/8" x 7" x 2 3/8" x 11" 3000 psi xmas tree assembly.

**Cementing:**

9 5/8" surface casing - cement with 23 sx Type I, II cement with 20% flyash, mixed at 14.5 ppg, 1.61 cu.ft. per sack yield (37 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 BOP and casing to 600 psi for 30 minutes.

7" intermediate casing - lead w/240 sacks Premium Lite cement with 3% calcium chloride, 0.25 pps Celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate. Tail with 90 sacks Type III cement with 1% calcium chloride, 0.25 pps Celloflake, 0.2% fluid loss (635 cu.ft., 50% excess to circulate to surface).

5 1/2" liner - will not be cemented if run.

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

**BOP and tests:**

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

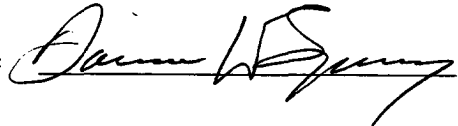
Intermediate TD to Total Depth - 7 1/6" 2000 psi (minimum) double gate BOP stack (Reference Figure #2). Prior to drilling out intermediate casing, test BOP and casing to 1500 psi for 30 minutes; all pipe rams and casing to 1500 psi for 30 minutes each.

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

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.

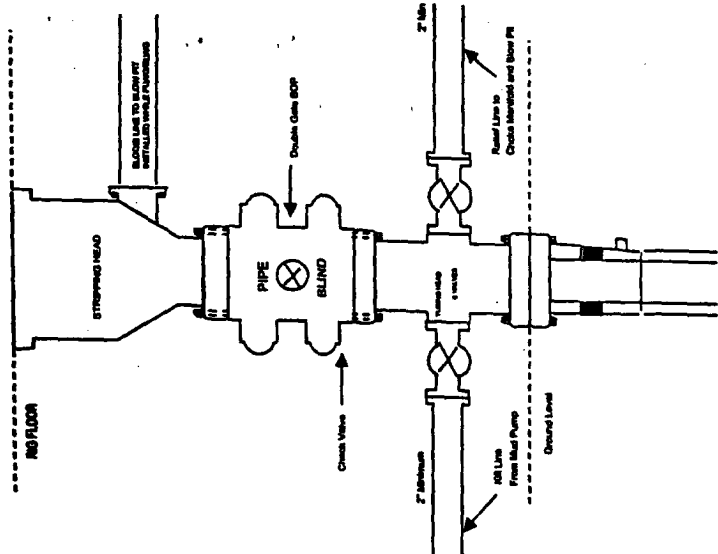
**Additional information:**

- The Fruitland Coal formation will be completed.
- Anticipated pore pressure for the Fruitland is 500 psi.
- This gas is dedicated.
- The east half of Section 27 is dedicated to this well.

Drilling Engineer:  Date: 10/6/03

# BURLINGTON RESOURCES

Completion/Workover Rig  
BOP Configuration  
2,000 psi System

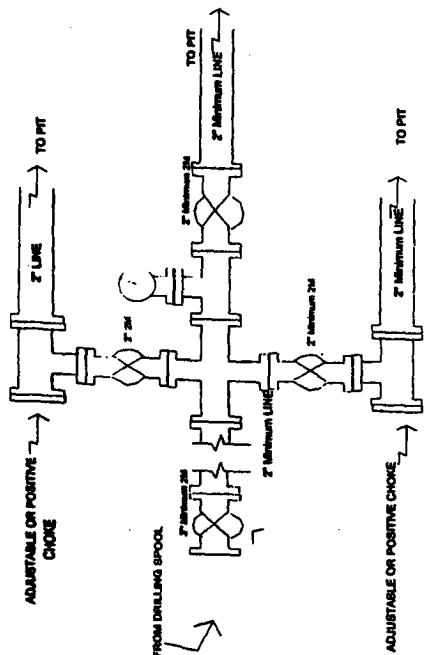


Minimum BOP installation for all Completion/Workover Operations. 7-1/16" bore, 2000 psi minimum working pressure double gate BOP to be equipped with blind and pipe rams. A stripping head to be installed on the top of the BOP. All BOP equipment is 2000 psi working pressure or greater excluding 500 psi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

Figure #2

# BURLINGTON RESOURCES

Drilling Rig  
Choke Manifold Configuration  
2000 psi System

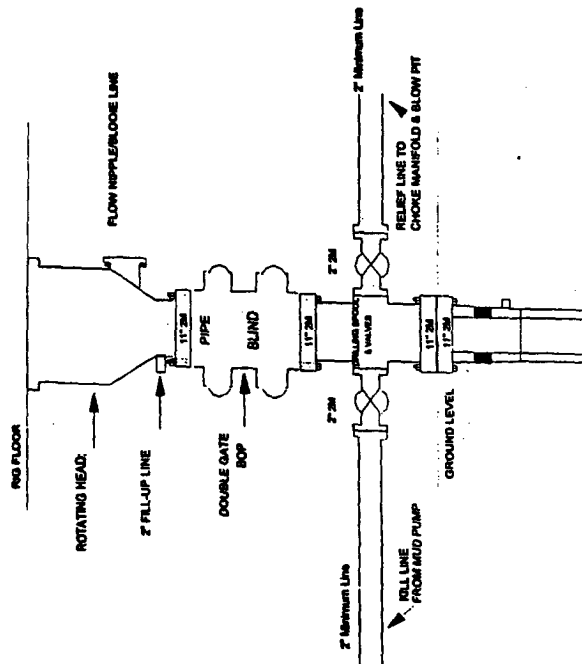


Choke manifold installation from Surface Casing Point to Total Depth. 2,000psi working pressure equipment with two chokes.

Figure #3

# Burlington Resources

Drilling Rig  
2000 psi System



BOP Installation from Surface Casing Point to Total Depth. 11" Bore 10,000psi 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 2,000 psi working pressure or greater excluding 500 psi stripping head.

Figure #1

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

Sundry Notices and Reports on Wells

RECEIVED

2004 APR 27 PM 3:48

Lease Number  
SF-079037

070 FARMINGTON, NM

If Indian, All. or  
Tribe Name1. Type of Well  
GAS

7. Unit Agreement Name

2. Name of Operator

**BURLINGTON  
RESOURCES**

OIL &amp; GAS COMPANY

3. Address &amp; Phone No. of Operator

PO Box 4289, Farmington, NM 87499 (505) 326-9700

Well Name & Number  
Hale #352S

4. Location of Well, Footage, Sec., T, R, M

1770' FSL, 1775' FEL, Sec.27, T31N, R8W, NMPM

API Well No.

30-045- 31952

10. Field and Pool

Basin Fruitland Coal

11. County and State  
San Juan Co, NM

## 12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA

## Type of Submission

## Type of Action

☒ Notice of Intent☐ Abandonment☒ Change of Plans☐ Subsequent Report☐ Recompletion☐ New Construction☐ Final Abandonment☐ Plugging Back☐ Non-Routine Fracturing☐ Casing Repair☐ Water Shut off☐ Altering Casing☐ Conversion to Injection☐ Other

## 13. Describe Proposed or Completed Operations

The BOP configuration has been revised for the subject well according to the following and attached diagram:

## BOP and tests:

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

Intermediate TD to Total Depth - 7 1/6" 2000 psi (minimum) completion BOP stack (Reference Figure #2). Prior to drilling out intermediate casing, test BOPE and casing to 1500 psi for 30 minutes.

From surface to 7" TD - a choke manifold will be installed in accordance with Onshore Order No. 2 (Reference Figure #3). When the cavitation completion rig drills the production hole, the completion rig configuration will be used (Reference Figure #4).

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.

14. I hereby certify that the foregoing is true and correct.

Signed Tammy Wimsatt Title Regulatory Specialist Date 04/013/04  
fsb

(This space for Federal or State Office use)

APPROVED BY [Signature] Title AFM Date 8-9-04

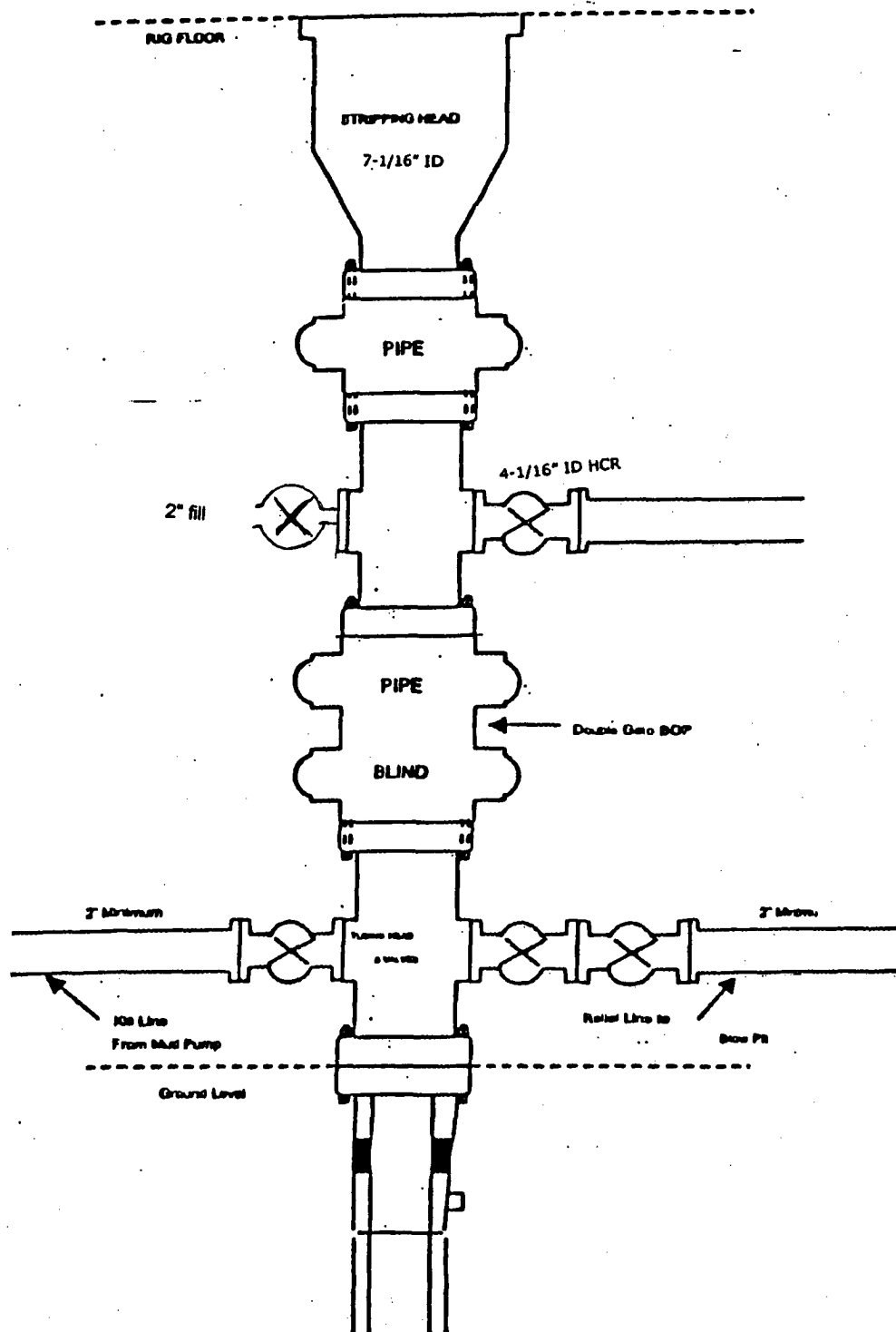
CONDITION OF APPROVAL, if any:

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 representations as to any matter within its jurisdiction.

NMOCD

# **BURLINGTON RESOURCES**

Figure #4  
Cavitation Rig  
BOP Configuration  
2,000 psi Minimum System





# BURLINGTON RESOURCES

SAN JUAN DIVISION

*Held to 11-9-2003*

October 6, 2003

(Certified Mail – Return Receipt Requested)

*30-045-31452*  
Re: Hale #352S  
Basin Fruitland Coal  
1770'FSL, 1755'FEL Section 27, T-31-N, R-8-W  
San Juan County, New Mexico



To the Affected Persons:

Burlington Resources Oil & Gas Company LP is submitting the enclosed Application for Permit to Drill to the appropriate regulatory agency(s) for approval. This well is located inside the High Productivity Area of the Basin-Fruitland Coal Pool as indicated on the attached plat. Notice is being made pursuant to New Mexico Oil Conservation Commission Order R-8768-F dated July 17, 2003.

The affected parties have twenty (20) days from receipt of this notice in which to file with the District Office of the New Mexico Oil Conservation Division written objection to the proposed Application for Permit to Drill.

Sincerely,

*Tammy Wimsatt*

Tammy Wimsatt  
Regulatory Specialist

<b>2. Article Number</b>		<b>COMPLETE THIS SECTION ON DELIVERY</b>	
<b>1. Article Addressed to:</b> <b>Aztec Oil &amp; Gas Company</b> <b>1207 Quarrier Street</b> <b>1207 Quarrier Street</b> <b>Chaleston, WV 25301</b>		<b>A. Signature</b> <b>X</b> <i>[Signature]</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee	
		<b>B. Received by (Printed Name)</b> <b>Steve Duckworth</b>	
		<b>C. Date of Delivery</b> <b>10-20-03</b>	
		<b>D. Is delivery address different from item 1?</b> <input type="checkbox"/> Yes If YES enter delivery address here: <b>910 6605 1510 0007 0253</b>	
		<b>3. Service Type</b> <input checked="" type="checkbox"/> <b>Certified</b>	
		<b>4. Restricted Delivery? (Extra Fee)</b> <input type="checkbox"/> Yes	

PS Form 3811

1:13 PM 9/16/2003

Code: FTC HPA Infill

Domestic Return Receipt

*Hale 3525*

File:

<b>SENDER:</b> • Complete items 1, 2 and 3. • Indicate if restricted delivery is desired. • Print your name and address on the reverse of this form so that we can return this card to you. • Attach this form to the front of the mailpiece, or on the back if space does not permit. • Write "Return Receipt Requested" on the mailpiece below the article number. • The Return receipt Fee will provide you the signature of the person delivered to and the date of delivery.		I also wish to receive the following service (for an extra fee): <input type="checkbox"/> <b>Restricted Delivery</b> Consult postmaster for fee.	
<b>1. Article Addressed to:</b> <b>ConocoPhillips Company</b> <b>Chief Landman San Jaun/Rockies</b> <b>PO Box 2197</b> <b>PO Box 2197</b> <b>Houston, TX 77252-2197</b>		<b>2. Article Number</b> <b>7110 6605 9590 0006 9981</b>	
		<b>3. Service Type</b> <input checked="" type="checkbox"/> <b>CERTIFIED</b>	
		<b>Date of Delivery</b> <b>OCT 10 2003</b>	
<b>Received By: (Print Name)</b> <i>[Signature]</i>		<b>Enter delivery address if different than item 1:</b>	
<b>Signature - (Addressee or Agent)</b> <i>[Signature]</i>			

PS Form 3811

3:19 PM 9/15/2003

Code: FTC HPA Infill

**DOMESTIC RETURN RECEIPT**

*Hale 3525*

File: