

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 NM010468	2003 NOV -3 PM 3:27
1b. Type of Well GAS	Unit Reporting Number 070 Farmington, NM	
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 Howell J	
	9. Well Number 300S	
4. Location of Well 875' FNL, 1535' FWL	10. Field, Pool, Wildcat Basin Fruitland Coal	
Latitude 36° 50.6872'N, Longitude 107° 39.9482'W	11. Sec., Twn, Rge, Mer. (NMPM) Sec 3, T-30-N, R-8-W API # 30-045-31991	
14. Distance in Miles from Nearest Town 31.6 Miles to Blanco Post Office	12. County San Juan	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 875'		
16. Acres in Lease	17. Acres Assigned to Well 320.0 N/A	
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 22'		
19. Proposed Depth 3157	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6205 GR	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Frances Bond</u> Regulatory/Compliance Assistant	<u>10-22-03</u> Date	

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

Archaeological Report Attached

Threatened and Endangered Species Report Attached

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 I**

1625 N. French Dr., Hobbs, NM 88240

**District II**

1301 W. Grand Ave., Artesia, NM 88210

**District III**

1000 Rio Brazos Rd., Aztec, NM 87410

**District IV**1220 S. St Francis Dr., Santa Fe, NM  
87505**State of New Mexico****Energy, Minerals and Natural Resources****Oil Conservation Division**

1220 S. St Francis Dr.

Santa Fe, NM 87505

Form C-102

Permit 347

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

API Number 30-045- <b>31991</b>	Pool Name BASIN FRUITLAND COAL (GAS)	Pool Code 71629
Property Code 7129	Property Name HOWELL J	Well No. 300S
OGRID No. 14538	Operator Name BURLINGTON RESOURCES OIL & GAS CO	Elevation 6205

**Surface And Bottom Hole Location**

UL or Lot C	Section 3	Township 30N	Range 08W	Lot Idn	Feet From 875	N/S Line N	Feet From 1535	E/W Line W	County San Juan
Dedicated Acres 321.6	Joint or Infill	Consolidation Code	Order No.						

**OPERATOR CERTIFICATION**

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signed By: *Tammy Henscott*

Title: Regulatory Specialist

Date: 4/1/04

**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.

Surveyed By: David A. Johnson

Date of Survey: 07/28/2003

Certificate Number: 14827

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

Sundry Notices and Reports on Wells

2004 APR -2 PM 3:37

1. Type of Well  
GAS

070 Farmington, NM

5. Lease Number  
NM-010468  
6. If Indian, All. or  
Tribe Name

2. Name of 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. Well Name & Number  
Howell J 300S

9. API Well No.  
30-045-31991

4. Location of Well, Footage, Sec., T, R, M  
875' FNL, 1535' FWL, Sec.3, T-30-N, R-8-W, NMPM

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
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other -
	<input checked="" type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut off
	<input type="checkbox"/> Conversion to Injection

13. Describe Proposed or Completed Operations

The dedication for the Fruitland Coal has been changed to W/321.60. Attached is the revised C-102.

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

Signed Tammy Wimsatt Title Regulatory Specialist Date 4/1/04

(This space for Federal or State Office use)

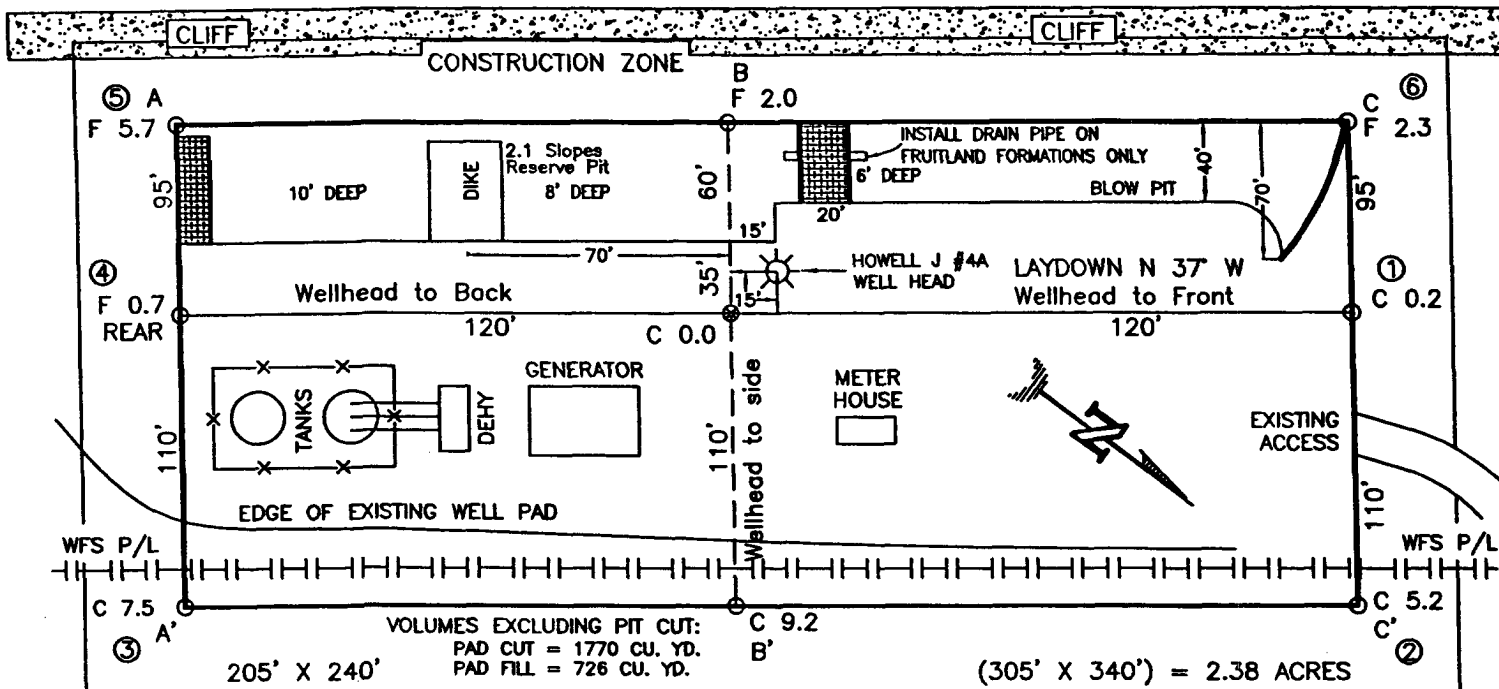
APPROVED BY [Signature] Title ATM Date 8-2-89

CONDITION OF APPROVAL, if any:

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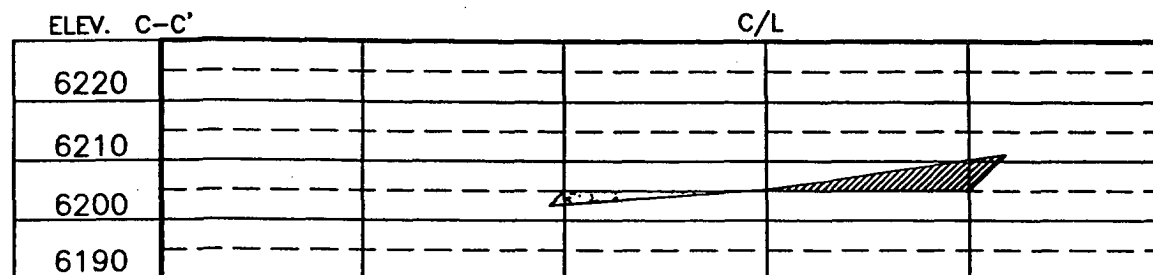
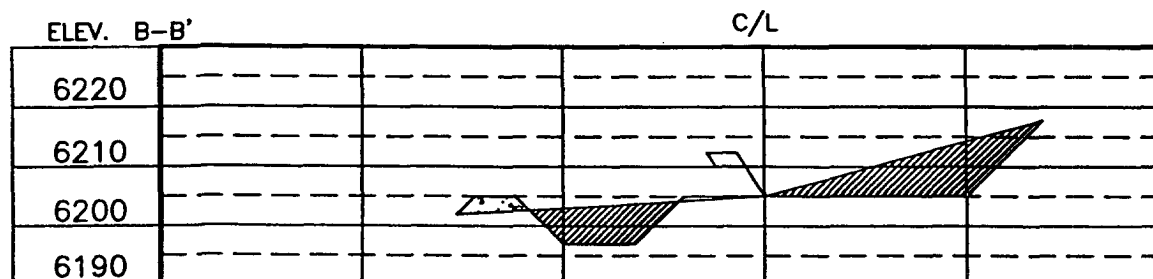
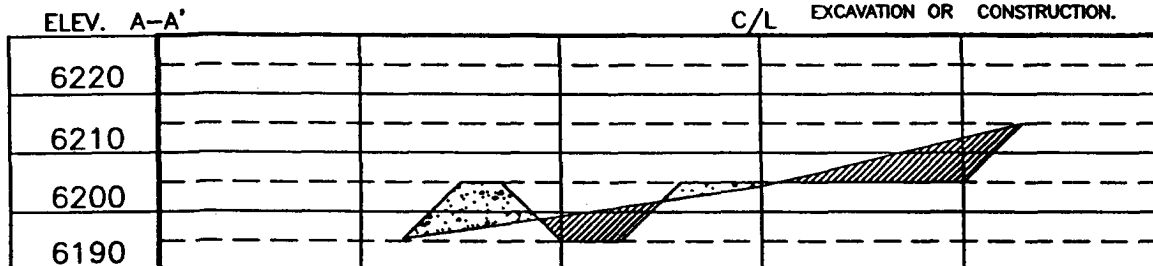
NMOCD

**BURLINGTON RESOURCES OIL & GAS COMPANY LP**  
**HOWELL J No. 300S, 875' FNL 1535' FWL**  
**SECTION 3, T-30-N, R-8-W, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO**  
**GROUND ELEVATION: 6205', DATE: SEPTEMBER 12, 2002**



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.

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.

DRAWN BY: B.S. ROW#: BR344 CADFILE: BR344CF8 DATE: 10/9/02

**Daggett Enterprises, Inc.**  
 Surveying and Oil Field Services  
 P. O. Box 15068 Farmington, NM 87401  
 Phone (505) 326-1772 Fax (505) 326-8019

submitted in lieu of Form 3160-5

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

Sundry Notices and Reports on Wells

2003 DEC 15 PM 3:48

070 Farmington, NM

1. Type of Well  
GAS

5. Lease Number  
NMNM010468  
6. If Indian, All. or  
Tribe Name

2. Name of Operator

7. Unit Agreement Name

**BURLINGTON**

RESOURCES OIL & GAS COMPANY

3. Address & Phone No. of Operator

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

8. Well Name & Number  
Howell J #300S

9. API Well No.  
30-045- 31991

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

875'FNL, 1535'FWL, Sec.3, T-30-N, R-8-W, NMPM

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

<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input checked="" type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Other -	

13. Describe Proposed or Completed Operations

It is intended to alter the surface casing and cementing program for the subject well  
According to the following:

Hole Size	Depth Interval	Csg Size	Weight	Grade	Type
12 1/4"	0' - 250'	9 5/8"	32.3#	H-40	Spud

9-5/8" surface casing - cement with 111 sxs Type III cement w/2% calcium chloride,  
0.25 pps celloflake (156 cu.ft. of slurry, 200% excess, circ cement to surface).  
WOC 4 hours before BOP NU. WOC 8 hours before pressure testing or drilling out  
from under surface casing. Bowspring centralizers will be run every other jt.

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

Signed Tammy Winstall Title Regulatory Specialist Date 12/15/03

(This space for Federal or State Office use)

APPROVED BY [Signature] Title AFM Date 8-2-04

CONDITION OF APPROVAL, if any:

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United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

NMOC

# OPERATIONS PLAN

**Well Name:** Howell J 300S  
**Location:** 875' FNL, 1535' FWL Section 3, T-30-N, R-8-W  
Latitude 36° 50.6872' N, Longitude 107° 39.9482' W  
San Juan County, NM  
**Formation:** Basin Fruitland Coal  
**Elevation:** 6205' GR

Formation:	Top	Bottom	Contents
Surface	San Jose	1877'	
Ojo Alamo	1877'	2042'	aquifer
Kirtland	2042'	2767'	
Fruitland	2767'	2812'	
Intermediate TD	2762'		
Fruitland Coal	2812'	3072'	gas
B/Basal Coal	3072'	3087'	gas
Pictured Cliffs	3087'		
Total Depth	3157'		

**Logging Program:** none  
**Mudlog:** from 7" to 3157  
**Coring Program:** none

## **Mud Program:**

Interval	Type	Weight	Vis.	Fluid Loss
0- 120'	Spud	8.4-9.0	40-50	no control
120-2762'	Non-dispersed	8.4-9.0	30-60	no control
2762-3157'	Air/Mist			

## **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' - 2762'	7"	20.0#	J-55
6 1/4"	2762' - 3157	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' - 2762	7"	20.0#	J-55
6 1/4"	2722' - 3157	5 1/2"	15.5#	J-55

## **Tubing Program:**

0' - 3157    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 @ 2042' tandard 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" 2000 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/234 sacks Premium Lite with 3% calcium chloride, 5 pps LCM-1, and 1/4#/sack flocele, 0.4% FL-52, & 0.4% SMS. Tail with 90 sacks Type III cmt with 1% calcium chloride, 1/4#/sack flocele and 0.2% FL-52 (623 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 rams to 600#/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 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).

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.

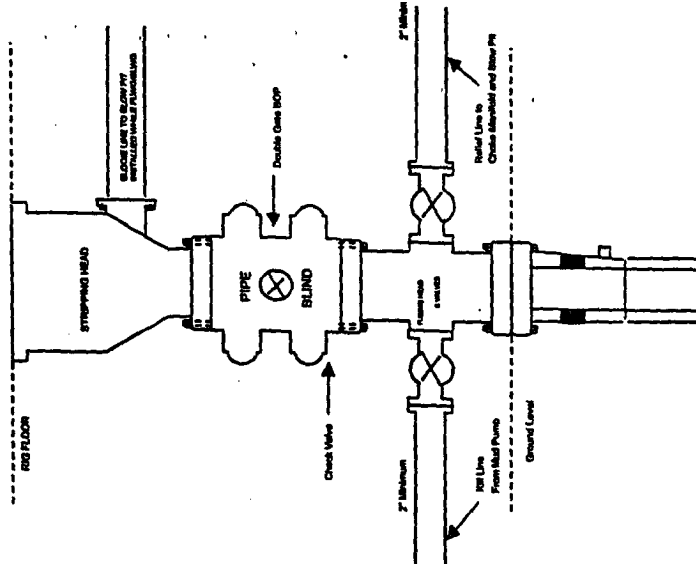
**Additional information:**

- \* The Fruitland Coal formation will be completed.
- \* Anticipated pore pressure for the Fruitland is less than 500 psi.
- \* This gas is dedicated.
- \* The west half of Section 3 is dedicated to the Fruitland Coal.

Date: October 30, 2003

Drilling Engineer: Jim McCarthy

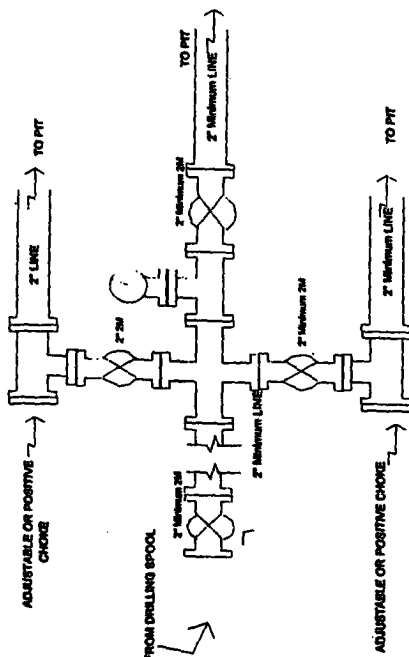
Completion/Workover Rig  
BOP Configuration  
2,000 psi System



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

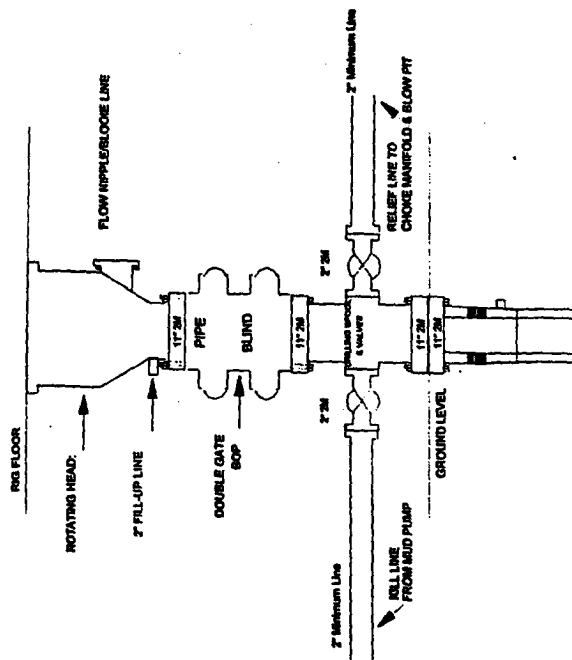
Drilling Rig  
Choke Manifold Configuration  
2000 psi System



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\"/>

Figure #1



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

Sundry Notices and Reports on Wells

RECEIVED

2004 APR 27 PM 3:49

070 FARMINGTON, NM

1. Type of Well  
GAS

2. Name of 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, Footage, Sec., T, R, M

875' FNL, 1535' FWL, Sec.3, T30N, R8W, NMPM

Lease Number  
NM-010468

If Indian, All. or  
Tribe Name

7. Unit Agreement Name

8. Well Name & Number  
Howell J #300S

9. API Well No.  
30-045- 31991

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**

<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input checked="" type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> 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 Williams Title Regulatory Specialist Date 04/013/04  
fsb

(This space for Federal or State Office use)

APPROVED BY [Signature] Title AFM Date 8-2-04

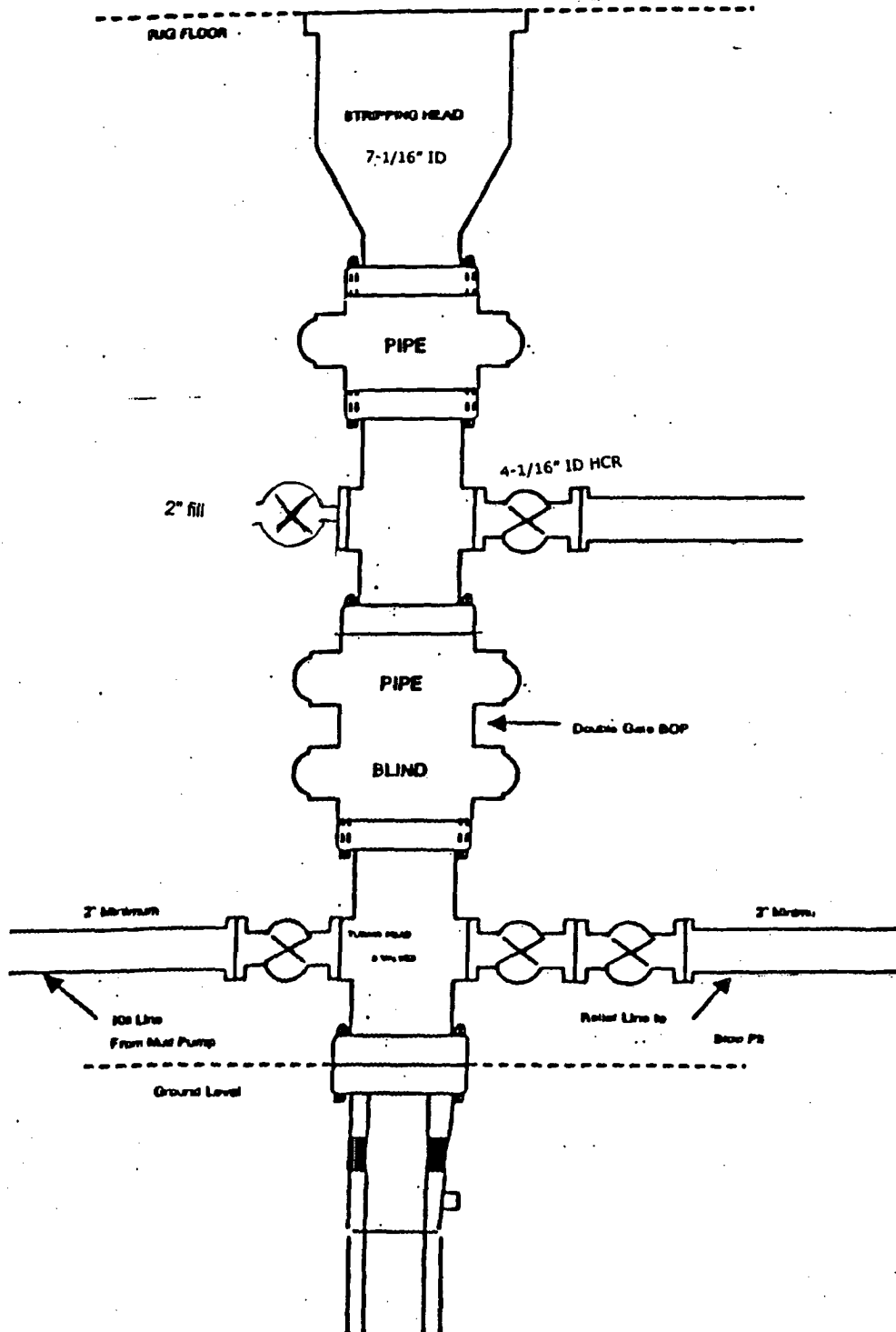
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NMOC

# BURLINGTON RESOURCES

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



# BURLINGTON RESOURCES

SAN JUAN DIVISION

*Released 12-8-2003*

November 11, 2003

(Certified Mail – Return Receipt Requested)

Re: Howell J 300S  
Basin Fruitland Coal  
875'FNL, 1535'FWL Section 3, T-30-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.

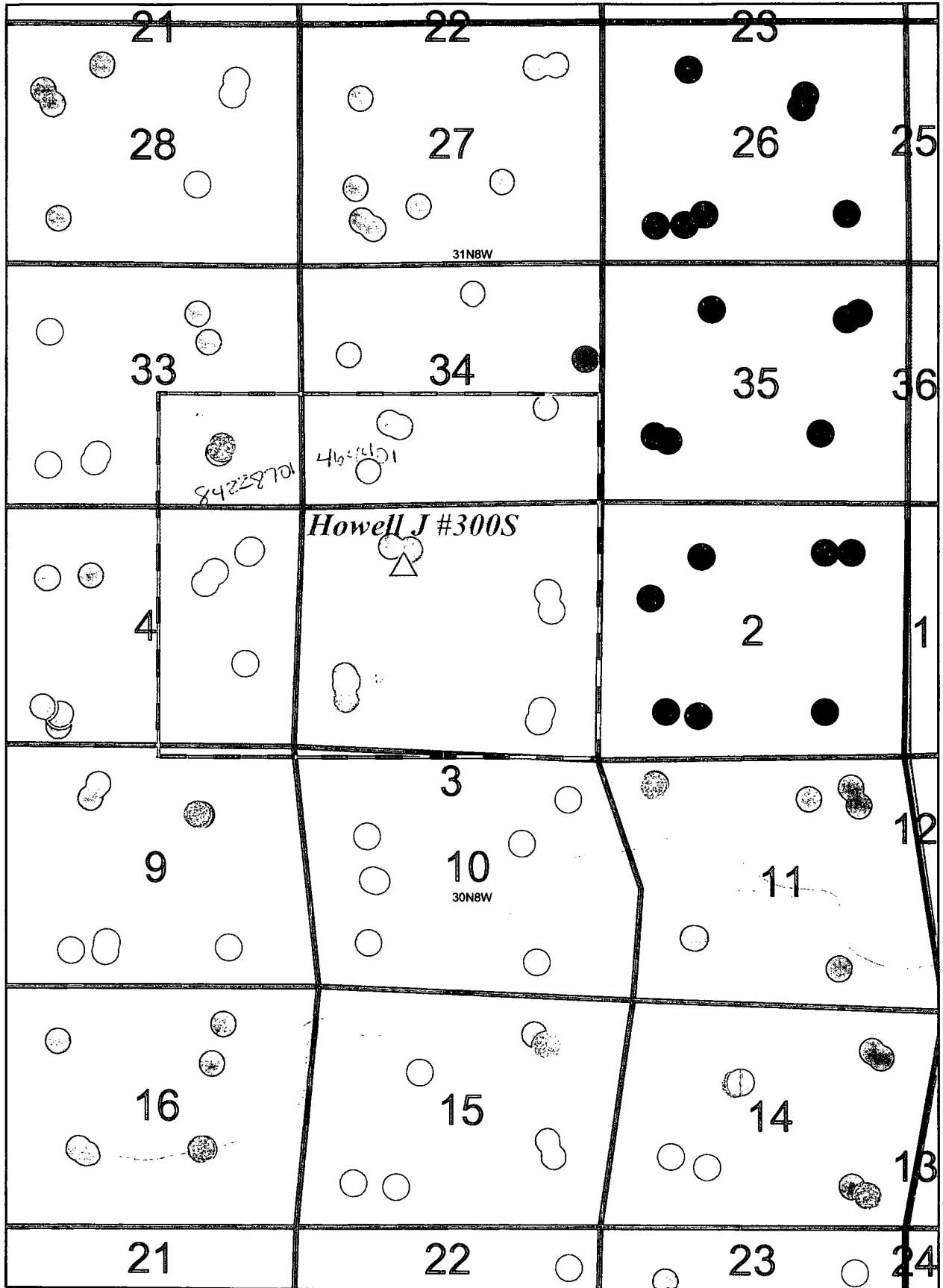
The affected parties have twenty (20) days from receipt of this notice in which to file with the District Office of the New Mexico Oil Conservation Division written objection to the proposed Application for Permit to Drill.

Sincerely,

*Frances Bond*

Frances Bond  
Regulatory Assistant

101732 (01)



**SENDER**  
• Complete items 1, 2 and 3.  
• Postage if restricted delivery is desired.  
• Attach this form to the package of the item you wish to return to you.  
• Attach this form to the package of the item you wish to return to the sender.  
• Write "Return/Receipt Requester" 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.

also wish to receive the following service (for an extra fee):  
☐ **Restricted Delivery**  
Consult Postmaster for fee.

1. Article Addressed to:

BP America  
Attn: Bryan Anderson  
PO Box 3092  
PO Box 3092  
Houston, TX 77253-3092

2. Article Number

7110 6605 9510 0006 9998

3. Service Type

☒ **CERTIFIED**

Date of Delivery

**NOV 18 2003**  
Enter delivery address if different than item 1.

Received By: (Print Name)

**ED. HEAVEN**

Signature - (Addressee or Agent)

PS Form 3811

**HOWELL 33045 DOMESTIC RETURN RECEIPT**

3:20 PM 9/15/2003

Code: FTC HPA Infill

File:

7110 6605 9590 0007 1151

RETURN RECEIPT SERVICE	POSTAGE	\$6.37	POSTMARK OR DATE
	RESTRICTED DELIVERY FEE	\$0.00	
	CERTIFIED FEE	\$2.30	
	RETURN RECEIPT FEE	\$4.75	
TOTAL POSTAGE AND FEES		\$4.42	

SENT TO: 9/19/2003 Code: Howell Com J #301 S  
3:13 PM File:  
CONOCOPHILLIPS COMPANY  
ATTN CHIEF LANDMAN SAN JUAN/ROCKIES  
PO BOX 2197  
PO BOX 2197  
HOUSTON, TX 77252-2197

PS FORM 3800