

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 SF079037
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 Hale
4. Location of Well 1630' FNL, 1020' FWL  Latitude 36° 52.2749'N, Longitude 107° 40.0484'W	9. Well Number 350S
10. Field, Pool, Wildcat Basin Fruitland Coal	11. Sec., Twn, Rge, Mer. (NMPM) Sec 27, T-31-N, R-8-W API # 30-045-31992
14. Distance in Miles from Nearest Town 29.5 Miles to P O in Blanco	12. County San Juan
15. Distance from Proposed Location to Nearest Property or Lease Line 1020'	13. State NM
16. Acres in Lease	17. Acres Assigned to Well 320 w/2
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 21'	20. Rotary or Cable Tools Rotary
19. Proposed Depth 3438	22. Apprx. Date Work will Start
21. Elevations (DF, FT, GR, Etc.) 6461 GR	
23. Proposed Casing and Cementing Program See Operations Plan attached	
24. Authorized by: <u>Frances Bond</u> Regulatory/Compliance Assistant	Date <u>10-22-03</u>

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.

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

# OIL CONSERVATION DIVISION

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

2040 South Pacheco  
Santa Fe, NM 87505

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

DISTRICT IV  
2040 South Pacheco, Santa Fe, NM 87505

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045- <b>3992</b>		*Pool Code 71629	*Pool Name Basin Fruitland Coal
*Property Code 18534	*Property Name HALE		*Well Number 350S
*OGRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL AND GAS, INC.		*Elevation 6461'

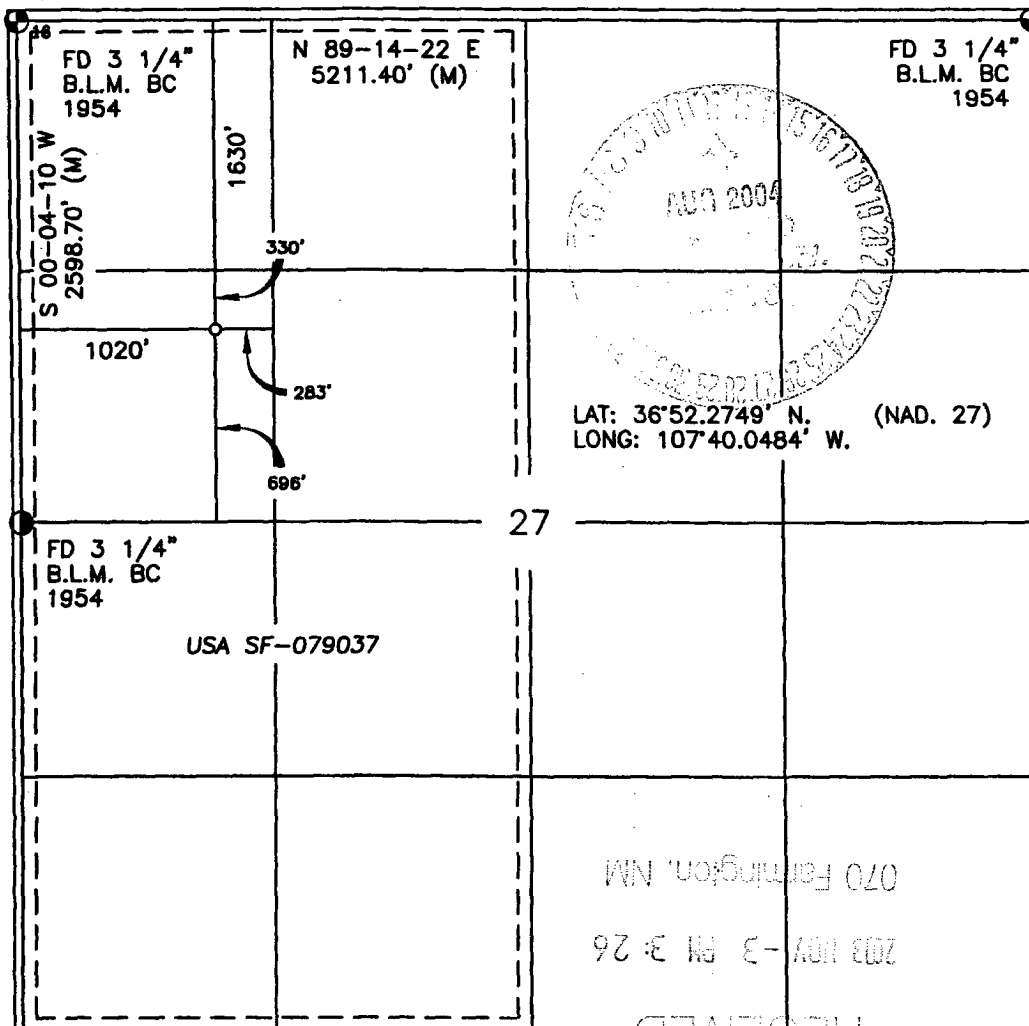
### 10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	27	31-N	8-W		1630'	NORTH	1020'	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
**Dedicated Acres W/320			**Joint or Infill		**Consolidation Code		**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



### 17 OPERATOR CERTIFICATION

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

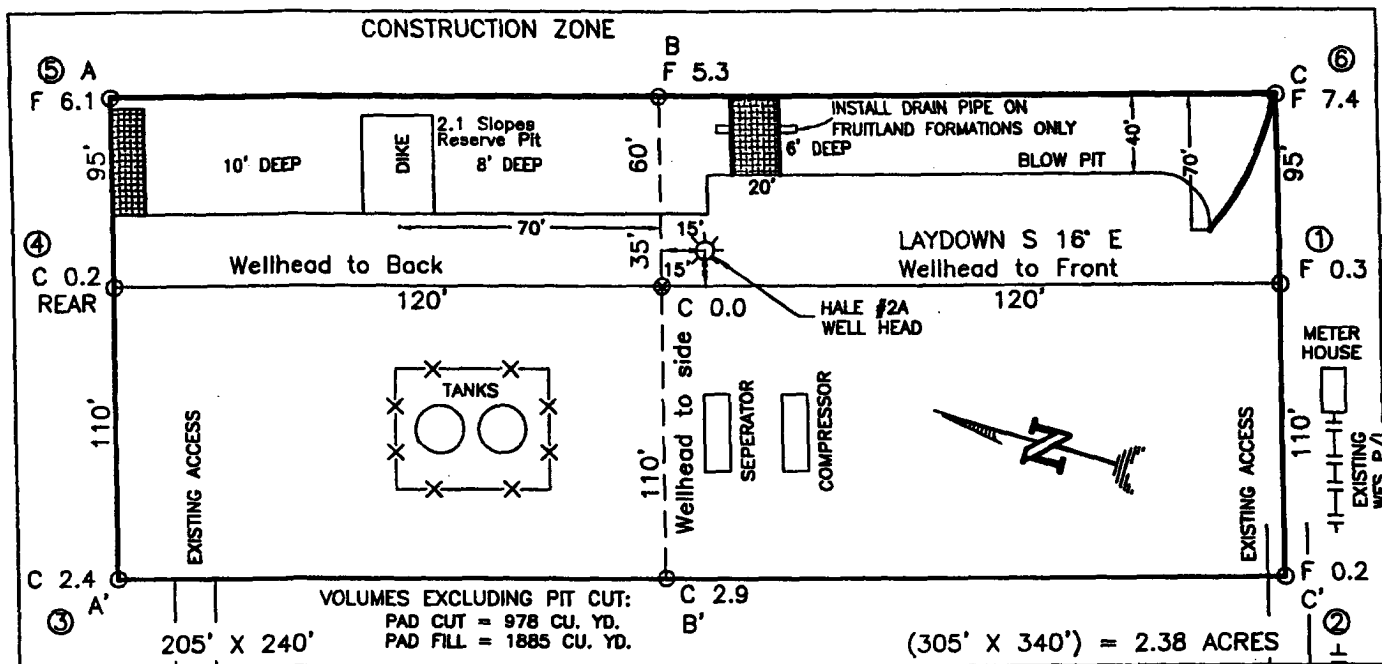
Frances Bond  
Signature  
Frances Bond  
Printed Name  
Regulatory Assistant  
Title  
10-22-03  
Date

### 18 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.

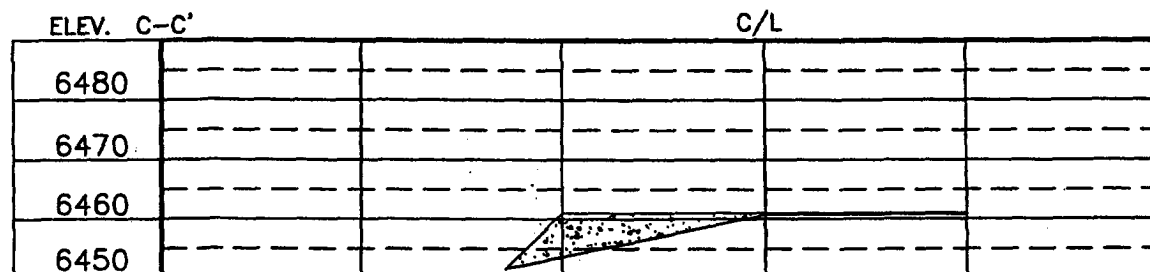
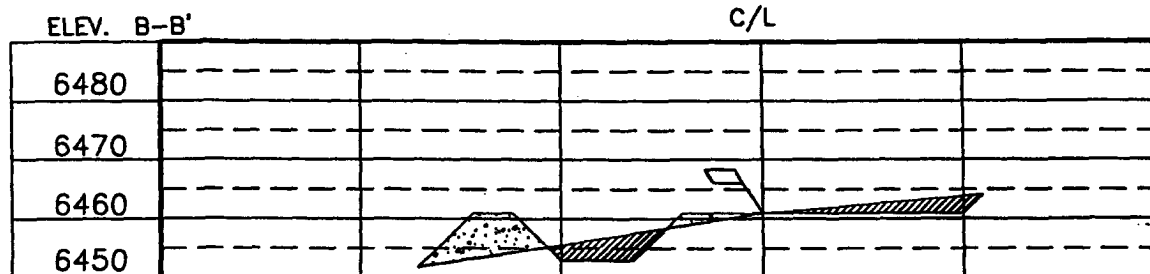
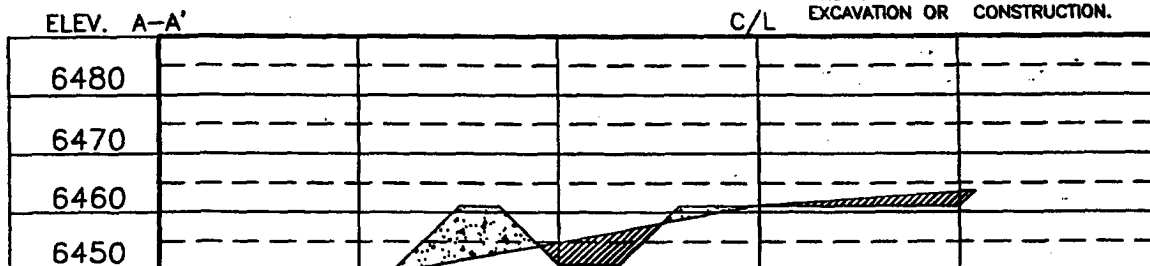
DAVID A. JOHNSON  
Date of Survey  
Signature and Seal of Professional Surveyor:  
14827  
14827  
Certificate Number

HALE No. 350S, 1630' FNL 1020' FWL  
SECTION 27, T-31-R-8-W, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO  
GROUND ELEVATION: 6461', DATE: AUGUST 29, 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#: BR364 CADFILE: BR364CF8 DATE: 9/10/02

**Daggett Enterprises, Inc.**  
Surveying and Oil Field Services  
P. O. Box 15088 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

070 Farmington, NM

1. Type of Well

GAS

Lease Number  
NMSF079037

6. If Indian, All. or  
Tribe Name

7. Unit Agreement Name

2. Name of Operator

**BURLINGTON**

RESOURCES OIL & GAS COMPANY

3. Address & Phone No. of Operator

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

8. Well Name & Number

Hale #350S

9. API Well No.

30-045-31992

10. Field and Pool

Basin Fruitland Coal

11. County and State

San Juan Co, NM

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

1630'FNL, 1020'FWL, Sec.27, T-31-N, R-8-W, NMPM

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

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' - 200'	9 5/8"	32.3#	H-40	Spud

9-5/8" surface casing - cement with 89 sxs Type III cement w/2% calcium chloride,  
0.25 pps celloflake (125 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 Winkler Title Regulatory Specialist Date 12/15/03

(This space for Federal or State Office use)

APPROVED BY [Signature] Title AFM Date 8-10-04

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.

NMOC

# OPERATIONS PLAN

**Well Name:** Hale 350S  
**Location:** 1630' FNL, 1020' FWL Section 27, T-31-N, R-8-W  
Latitude 36° 52.2749' N, Longitude 107° 40.0484' W  
San Juan County, NM  
**Formation:** Basin Fruitland Coal  
**Elevation:** 6461' GR

Formation:	Top	Bottom	Contents
Surface	San Jose	2186'	
Ojo Alamo	2186'	2292'	aquifer
Kirtland	2292'	2842'	
Fruitland	2842'	3107'	
Intermediate TD	3057'		
Fruitland Coal	3107'	3353'	gas
B/Basal Coal	3353'	3358'	gas
Pictured Cliffs	3358'		
Total Depth	3438'		

**Logging Program:** none  
**Mudlog:** from 7" to 3438  
**Coring Program:** none

## **Mud Program:**

Interval	Type	Weight	Vis.	Fluid Loss
0- 120'	Spud	8.4-9.0	40-50	no control
120-3057'	Non-dispersed	8.4-9.0	30-60	no control
3057-3438'	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' - 3057'	7"	20.0#	J-55
6 1/4"	3057' - 3438'	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' - 3057'	7"	20.0#	J-55
6 1/4"	3017' - 3438'	5 1/2"	15.5#	J-55

## **Tubing Program:**

0' - 3438'	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 @ 2292'. 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" 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/265 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 (689 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.

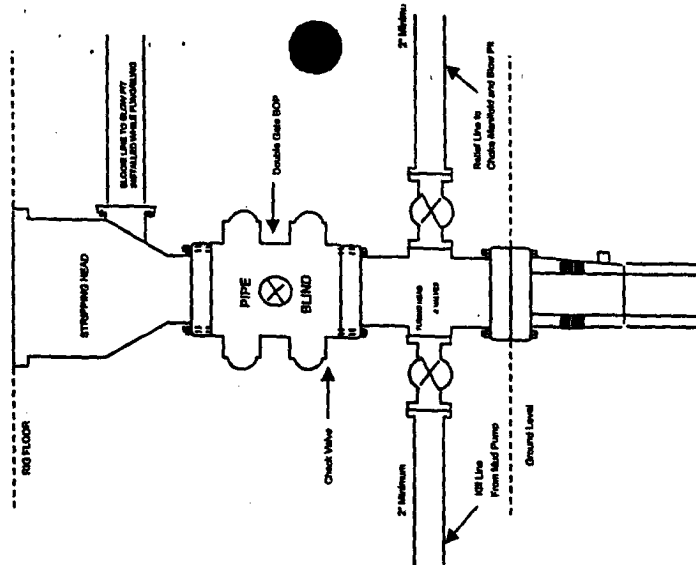
**Additional information:**

- \* The Fruitland Coal formation will be completed.
- \* Anticipated pore pressure for the Fruitland is less than 500 psi.
- \* This gas is dedicated.
- \* The south half of Section 18 is dedicated to the Fruitland Coal.

Date: October 30, 2003

Drilling Engineer: Jim McClellan

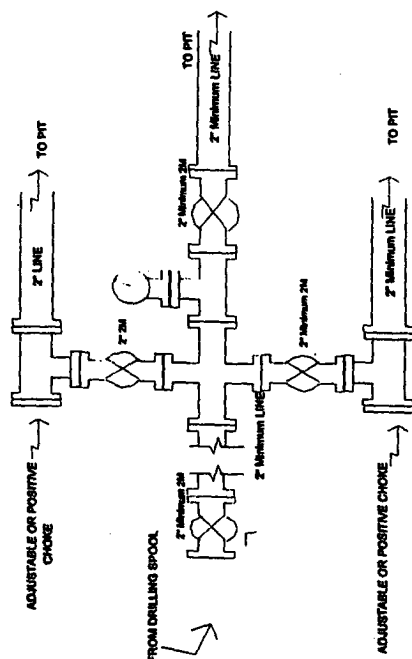
Completion/Workover Rig  
BOP Configuration  
2,000 psi System



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

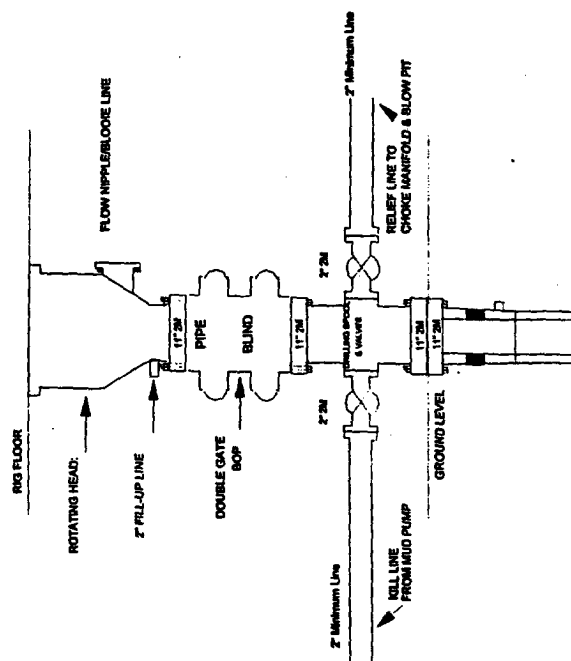
Drilling Rig  
Choke Manifold Configuration  
2000 psi System



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

RECEIVED

## Sundry Notices and Reports on Wells

2004 APR 27 PM 5:58

1. Type of Well  
GASLease Number  
SF-079037

070 FARMINGTON, NM

If Indian, All. or  
Tribe Name

2. Name of Operator

**BURLINGTON  
RESOURCES**

OIL &amp; GAS COMPANY

7. Unit Agreement Name

3. Address &amp; Phone No. of Operator

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

8. Well Name & Number  
Hale #350S

9. API Well No.

30-045-31992

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

1630' FNL, 1020' FWL, Sec.27, T31N, R8W, 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

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 Winsatt Title Regulatory Specialist Date 04/013/04  
fsb

(This space for Federal or State Office use)

APPROVED BY JB Montez Title AFM Date 8-10-04

CONDITION OF APPROVAL, if any:

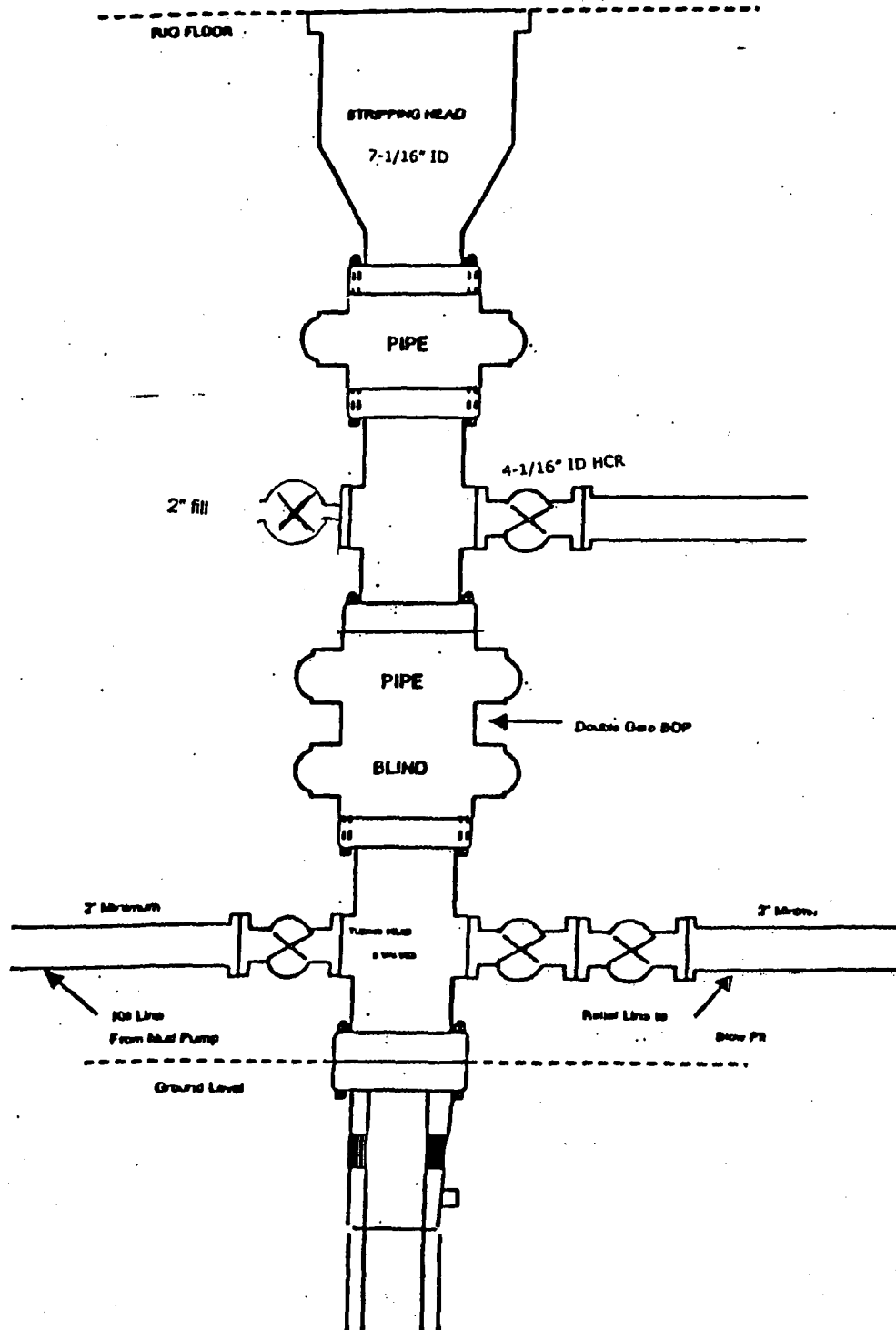
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

NMOCD



# BURLINGTON RESOURCES

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



# BURLINGTON RESOURCES

SAN JUAN DIVISION

*Released  
2-5-04*

January 13, 2004

(Certified Mail – Return Receipt Requested)

Re: Hale 350S  
Basin Fruitland Coal  
1630'FNL, 1020'FWL 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,

*Frances Bond*

Frances Bond  
Regulatory Assistant

Legend

P2000 Well Header (sid)

Current Operator

Unknown

AMOCO PRODUCTION COMPANY

BP AMERICA PRODUCTION COMPANY

BURLINGTON RESOURCES O&G CO LP

BURLINGTON RESOURCES OIL & GAS COMPANY

PHILLIPS PETROLEUM COMPANY

CONOCO INCORPORATED

CONOCOPHILLIPS COMPANY

AZTEC OIL & GAS COMPANY

DEVON ENERGY CORPORATION

FOUR STAR OIL & GAS COMPANY

MERRION OIL & GAS CORPORATION

MESA OPERATING LIMITED PARTNERSHIP

UNION TEXAS PETROLEUM CORPORATION

BURLINGTON  
RESOURCES



1:71,167,736 - 1" equals 5,930,645'

GCS North American 1927

BURLINGTON RESOURCES

San Juan

Hale #250S

31-8

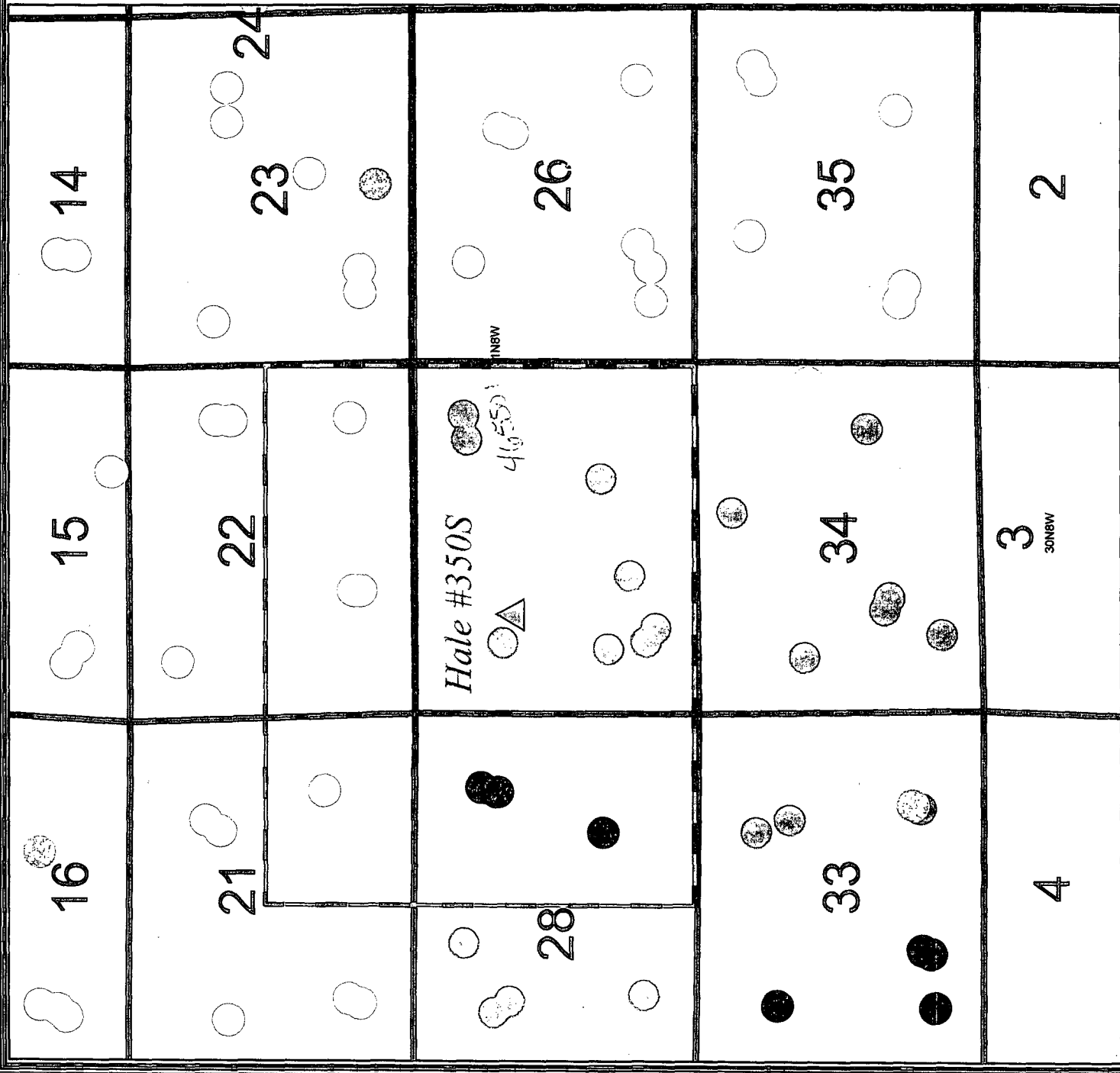
Prepared By: tmg

Date: 9/10/2003

File Number:

Revised Date: 9/10/2003

File Name: Public\Projects\11 San Juan Basin Users\11 San Juan Basin Users.mxd



**SENDER:**

- 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):

☐ **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 9590 0006 9974

## 3. Service Type

☒ **CERTIFIED**

Date of Delivery

JAN 16 2004

## Received By: (Print Name)

ED MERRAUIS Q

## Signature - (Addressee or Agent)

HALE 3505

Enter delivery address  
if different than item 1.

PS Form 3811

3:19 PM 9/15/2003

Code: FTC HPA Infill

File:

**DOMESTIC RETURN RECEIPT****SENDER:**

- 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):

☐ **Restricted Delivery**

Consult postmaster for fee.

## 1. Article Addressed to:

ConocoPhillips Company  
Chief Landman San Jaun/Rockies  
PO Box 2197  
PO Box 2197  
Houston, TX 77252-2197

## 2. Article Number

7110 6605 9590 0007 0000

## 3. Service Type

☒ **CERTIFIED**

Date of Delivery

JAN 16 2004

## Received By: (Print Name)

## Signature - (Addressee or Agent)

D. HALE

Enter delivery address  
if different than item 1.

PS Form 3811

3:20 PM 9/15/2003

Code: FTC HPA Infill

File:

HALE 3505

**DOMESTIC RETURN RECEIPT**