

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 SF-078387 Unit Reporting Number 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 Howell D 9. Well Number #350S
4. Location of Well 1015' FSL, 1000' FSL Latitude 36° 51.8600'N, Longitude 107° 41.1252'W	10. Field, Pool, Wildcat Basin Fruitland Coal 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 28, T31N, R08W API # 30-045- 32090
14. Distance in Miles from Nearest Town 9.7 miles to Navajo Dam, NM	12. County San Juan 13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1000'	
16. Acres in Lease	17. Acres Assigned to Well 320 W/2
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 22'	
19. Proposed Depth 3398'	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6480' GR	22. Approx. Date Work will Start
23. Proposed Casing and Cementing Program See Operations Plan attached	
24. Authorized by: <u>Joni Clark</u> Regulatory/Compliance Specialist	<u>10-23-03</u> Date

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
APPROVED BY /s/ David J. Markiewicz TITLE \_\_\_\_\_ DATE FEB 25 2004

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.

NMOC

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

This action is subject to technical and  
procedural review pursuant to 43 CFR 3165.3  
and appeal pursuant to 43 CFR 3165.4

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  
611 South First, Artesia, N.M. 88210

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

DISTRICT IV  
2040 South Pacheco, Santa Fe, NM 87505

OIL CONSERVATION DIVISION  
2040 South Pacheco  
Santa Fe, NM 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-045- <b>32090</b>	<sup>2</sup> Pool Code 71629	<sup>3</sup> Pool Name Basin Fruitland Coal
<sup>4</sup> Property Code 7124	<sup>5</sup> Property Name HOWELL D	<sup>6</sup> Well Number 350S
<sup>7</sup> OGRID No. 14538	<sup>8</sup> Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP	<sup>9</sup> Elevation 6480'

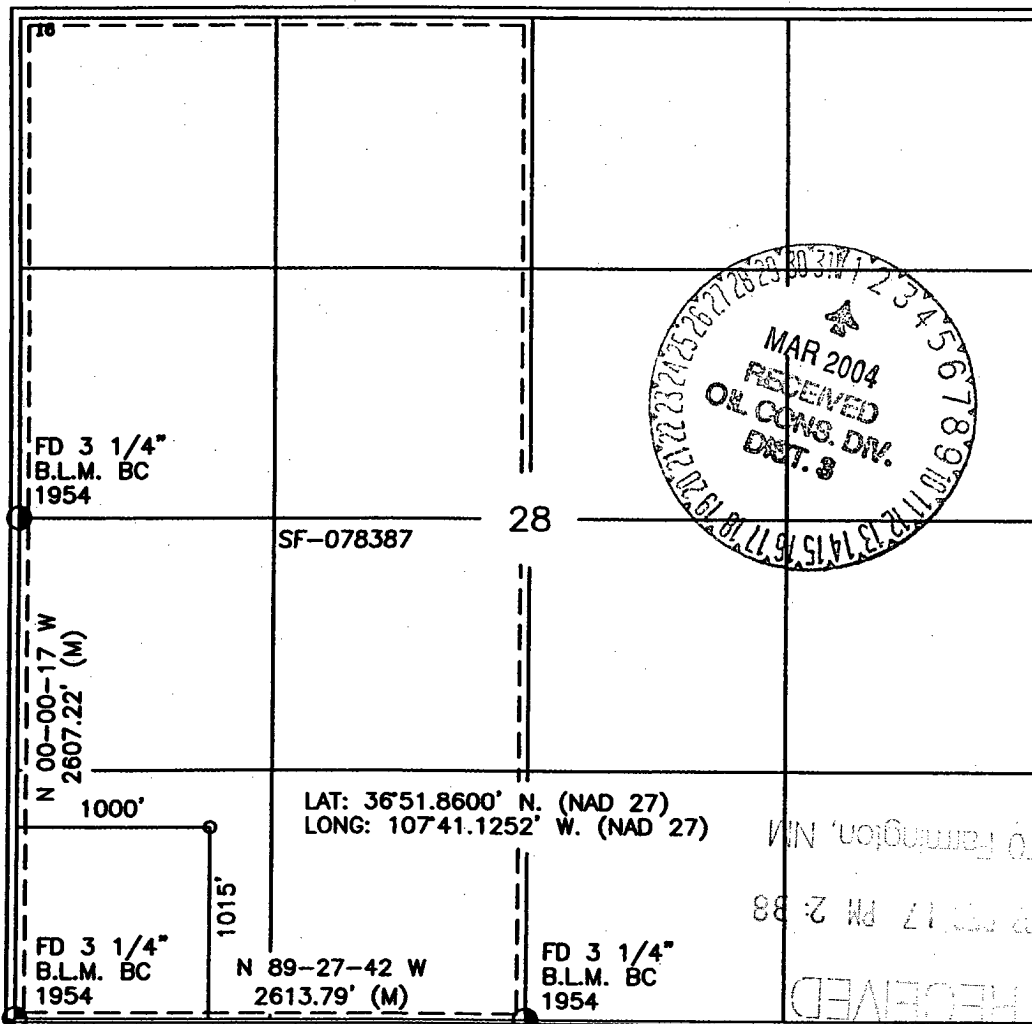
<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	28	31-N	8-W		1015'	SOUTH	1000'	WEST	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 320 W/2					<sup>13</sup> Joint or Infill		<sup>14</sup> Consolidation Code		<sup>15</sup> 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



<sup>17</sup> OPERATOR CERTIFICATION

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

*Joni Clark*  
Signature  
Joni Clark  
Printed Name  
Regulatory Specialist  
Title  
10-23-03  
Date

<sup>18</sup> 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 R. JOHNSON*  
Date of Survey  
Signature and Seal of Professional Surveyor:  
1827  
14827  
Certificate Number

# BURLINGTON RESOURCES

RECEIVED

SAN JUAN DIVISION

2004 FEB 11 AM 10:18

February 10, 2004

070 Farmington, NM

Bureau of Land Management  
1235 La Plata Highway  
Farmington, New Mexico 87401

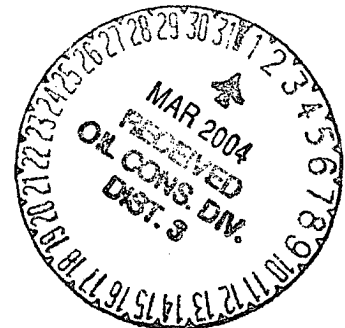
Dear Adrienne Garcia:

The surface cement slurry has been changed for the following wells to:

Cement with Type III cement with 0.25 pps Celloflake, 3% calcium chloride. (1.28 yeild, 15.2 ppg, 200% excess, bring cement to surface). Wait on cement appropriate time until cement achieves 250 psi compressive strength at 60 degrees F. prior to nipple up of BOPE. Wait on cement for 8 hrs for conventionally set holes before pressure testing or drilling out from under surface. Test casing to 600 psi for 30 minutes.

9-5/8" csg set @ 120'  
88 sxs cmt  
113 cu. ft. of slurry

Allison Unit 120S, NWSE, Sec. 30, T-32-N, R-6-W, Federal lease NM-04207.  
Allison Unit 121S, SENW, Sec. 30, T-32-N, R-6-W, Federal lease SF-081155.  
Carson SRC 101S, SWNW, Sec. 1, T-30-N, R-5-W, Federal lease NM-4453.  
Federal G 1N, SESW, Sec. 35, T-31-N, R-12-W, Federal lease SF-078120A.  
Hale 351S, SWNW, Sec. 34, T-31-N, R-8-W, Federal lease SF-079037.  
Hale 352S, NWSE, Sec. 27, T-31-N, R-8-W, Federal lease SF-079037.  
Howell A 301S, NENW, Sec. 4, T-30-N, R-8-W, Federal lease SF-078580.  
Howell Com J 301S, NWNW, Sec. 11, T-30-N, R-8-W, Federal lease NM-010468.  
Howell D 350S, SWSW, Sec. 28, T-31-N, R-8-W, Federal lease SF-078387.  
Howell D 351S, SENW, Sec. 29, T-31-N, R-8-W, Federal lease SF-078387.  
Johnston Federal 15S, NWSW, Sec. 35, T-31-N, R-9-W, Federal lease SF-078439.  
Johnston Federal 26S, SWNW, Sec. 7, T-31-N, R-9-W, Federal lease SF-078439.  
Johnston Federal 29S, SWSE, Sec. 7, T-31-N, R-9-W, Federal lease SF-078439.  
San Juan 32-9 Unit 250S, SWSE, Sec. 4, T-31-N, R-9-W, Federal lease SF-080875.  
San Juan 32-9 Unit 277S, SENW, Sec. 30, T-32-N, R-9-W, Federal lease SF-078509.  
San Juan 32-9 Unit 283S, NENW, Sec. 33, T-32-N, R-9-W, Federal lease SF-079048.  
Scott 100S, SENW, Sec. 29, T-32-N, R-10-W, Federal lease SF-078604.  
Scott Com 291S, NESE, Sec. 29, T-32-N, R-10-W, Federal lease SF-078604.  
Vanderslice 100S, SWNW, Sec. 18, T-32-N, R-10-W, Federal lease SF-078215A.  
Waller 100S, SESE, Sec. 11, T-32-N, R-11-W, Federal lease SF-078119A.  
Wilmer Canyon 101S, NENW, Sec. 25, T-32-N, R-8-W, Federal lease NM-6893.



Sincerely,

*Tammy Wimsatt*

Tammy Wimsatt  
Regulatory Specialist

ACCEPTED FOR RECORD

FEB 23 2004

FARMINGTON FIELD OFFICE  
Jy

NMOCD

# OPERATIONS PLAN

**Well Name:** Howell D #350S  
**Location:** 1015' FSL, 1000' FWL Section 28, T-31-N, R-08-W  
Latitude 36° 51.8600'N, Longitude 107° 41.1252'W  
San Juan County, NM  
**Formation:** Basin Fruitland Coal  
**Elevation:** 6480' GR

Formation:	Top	Bottom	Contents
Surface	San Jose	2153'	
Ojo Alamo	2153'	2237'	aquifer
Kirtland	2237'	2984'	
Fruitland	2984'	3147'	
Intermediate TD	3097'		
Fruitland Coal	3147'	3313'	gas
B/Basal Coal	3313'	3337'	gas
Pictured Cliffs	3337'		
Total Depth	3398'		

**Logging Program:** GR/RHOB  
**Mudlog:** from 7" to 3398'  
**Coring Program:** none

## **Mud Program:**

Interval	Type	Weight	Vis.	Fluid Loss
0-120'	Spud Mud/Air/Air Mist	8.4-9.0	40-50	no control
120-3097'	Non-dispersed	8.4-9.0	30-60	no control
3097-3398'	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' - 3097'	7"	20.0#	J-55
6 1/4"	3097' - 3398'	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' - 3097'	7"	20.0#	J-55
6 1/4"	3057' - 3398'	5 1/2"	15.5#	J-55

## **Tubing Program:**

0' - 3398'      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 @ 2237'. 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 -

Pre-Set Drilled 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) Wait on cement for 24 hours for pre-set holes before pressure testing or drilling out from under surface.

Conventionally Drilled

Cement with 80 sx Type III cement with 0.25 pps Celloflake, 2% CaCl. (113 cu ft of slurry, 200% excess, bring cement to surface) Wait on cement for 8 hrs for conventionally set holes before pressure tessting or drilling out from under surface.

~~Waive the 6 hours WOC in lieu of 4 hours prior to NU of BOPE.~~ See BLM General Requirements

7" intermediate casing - lead w/269 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 (698 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 28 is dedicated to the Fruitland Coal.

Date: 12-16-83

Drilling Engineer: James McCarty

# BURLINGTON RESOURCES

SAN JUAN DIVISION

*Released  
3-02-04*

January 13, 2004

(Certified Mail – Return Receipt Requested)

Re: Howell D 350S  
Basin Fruitland Coal  
1015'FSL, 1000'FEL Section 28, 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.



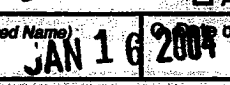
Sincerely,


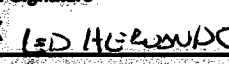

*Frances Bond*

Frances Bond  
Regulatory Assistant





<b>2. Article Number</b>		<b>COMPLETE THIS SECTION ON DELIVERY</b>	
 7110 6605 9540 0007 5357		<b>A. Signature</b> X  <input type="checkbox"/> Agent <input type="checkbox"/> Addressee	
<b>1. Article Addressed to:</b>  ConocoPhillips Company Chief Landman San Jaun/Rockies PO Box 2197 PO Box 2197 Houston, TX 77252-2197  12/1/2003 1:18 PM Code: FTC HPA Infill		<b>B. Received by (Printed Name)</b>  <b>JAN 16 2004</b> of Delivery  <b>D. Is delivery address different from item 1?</b> <input type="checkbox"/> Yes If YES enter delivery address below: <input type="checkbox"/> No	
		<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 Domestic Return Receipt			

<b>2. Article Number</b>		<b>COMPLETE THIS SECTION ON DELIVERY</b>	
 7110 6605 9540 0007 5333		<b>A. Signature</b> X  <input type="checkbox"/> Agent <input type="checkbox"/> Addressee	
<b>1. Article Addressed to:</b>  BP America Attn: Bryan Anderson PO Box 3092 PO Box 3092 Houston, TX 77253-3092  12/1/2003 1:17 PM Code: FTC HPA Infill		<b>B. Received by (Printed Name)</b>  <b>JAN 16 2004</b> of Delivery  <b>D. Is delivery address different from item 1?</b> <input type="checkbox"/> Yes If YES enter delivery address below: <input type="checkbox"/> No	
		<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 Domestic Return Receipt			