# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

la.	Type of Work		5. Lease Number	300 my -3 M
	DRILL	AND BYON	SF078387 Unit Reporting	
1b.	Type of Well GAS	10 C 10 M 2004	6. If Indian, All. or	(171) Farmington Tribe
2.	Operator  BURLINGTON  RESOURCES Oil & Ga	s Company	7. Unit Agreemen	t Name
3.	Address & Phone No. of Operator PO Box 4289, Farmington,	NM 87499	8. Farm or Lease Howell D 9. Well Number	Name
	(505) 326-9700		352S	
4.	Location of Well 1535' FSL, 1145' FEL		<b>10. Field, Pool, W</b> Basin Fruitla	
Lati	tude 36° 51.0868'N, Longitud	e 107º 42.6525'W	11. Sec., Twn, Rge Sec 31, T-31- API# 30-045-	e, Mer. (NMPM) N, R-8-W
14.	Distance in Miles from Nearest Town 31.8 Miles to PO in Blanco		<b>12. County</b> San Juan	13. State
15.	Distance from Proposed Location to 1145'	Nearest Property or Lease L	ine	
16.	Acres in Lease		17. Acres Assigne	ed to Well )
18.	Distance from Proposed Location to 20'	Nearest Well, Drig, Compl, o	or Applied for on this	Lease
19.	Proposed Depth 3246		<b>20. Rotary or Cab</b> Rotary	le Tools
21.	Elevations (DF, FT, GR, Etc.) 6336 GR	· · · · · · · · · · · · · · · · · · ·	22. Approx. Date	Work will Start
23.	Proposed Casing and Cementing Pro See Operations Plan atta			
24.	Authorized by:  Regulatory/Com	Bond pliance Assistant	/0 - 2	2-03
PERM	IIT NO.	APPROVAL D	ATE	
	OVED BY FFO			ATE 1-9-04

**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 or Con is subject to technical and procedular review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3185.4

NMOCD

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

Revised August 15, 2000

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

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

OIL CONSERVATION DIVISION 2040 South Pacheco

Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87606 Santa Fe, NM 87505

☐ AMENDED REPORT

### WELL LOCATION AND ACREAGE DEDICATION PLAT

¹API Number	Pool Code	Pool Name		
30-045- 3/900	71629	Basin Fruitland Coal		
<sup>4</sup> Property Code	Property Name		• Well Number 352S	
7124	HOV			
OGRID No.	*Op	erator Name	* Elevation	
14538	BURLINGTON RESOU	RCES OIL AND GAS, INC.	6336'	

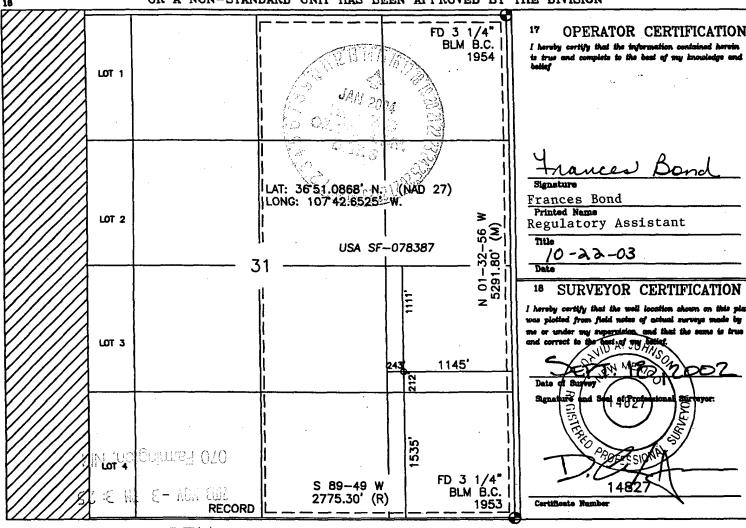
<sup>10</sup> Surface Location

UL or lot no.   Section	n Township	Range	Lot lân	Feet from the	North/South line	Feet from the	Rast/West line	County
1 31	31-N	8-W		1535'	SOUTH	1145'	EAST	SAN JUAN

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

UL or lot no.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres		<u> </u>	u Joint or	lnfill	" Consolidation C	ode	<sup>16</sup> Order No.		
E/320									

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



Regulatory Assistant

## SURVEYOR CERTIFICATION

#### OPERATIONS PLAN

Well Name: Howell D 352S

Location: 1535'FSL, 1145'FEL Section 31, T-31-N, R-8-W

Latitude 36° 51.0868'N, Longitude 107° 42.6525'W

San Juan County, NM

Formation: Basin Fruitland Coal

Elevation: 6336'GR

Formation:	Top	Bottom	Contents
Surface	San Jose	1913'	
Ojo Alamo	1913'	2043'	aquifer
Kirtland	2043'	2878'	
Fruitland	2878'	2923'	
Intermediate TD	2873 '		
Fruitland Coal	2923'	3161'	gas
B/Basal Coal	3161'	3163'	gas
Pictured Cliffs	3163'		J
Total Depth	3246'		

Logging Program: none Mudlog: from 7" to 3246' Coring Program: none

#### Mud Program:

Interval	Type	Weight	Vis.	Fluid Loss
0- 120'	Spud	8.4-9.0	40-50	no control
120-2873'	Non-dispersed	8.4-9.0	30-60	no control
2873-3246'	Air/Mist			

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

Hole Size	Depth Interva	l Csg.Size	Wt.	Grade
12 1/4"	0' ~ 120'	9 5/8"	32.3#	H-40
8 3/4"	0' - 2873'	7 <b>"</b>	20.0#	J-55
6 1/4"	2873' - 3246'	open ho	le	

#### 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' - 2873'	7"	20.0#	J-55
6 1/4"	2833' - 3246'	5 1/2"	15.5#	J-55

#### Tubing Program:

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 @ 2043'. 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/245 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 (648 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 East half of Section 31 is dedicated to the Fruitland Coal.

Date: October 30, 103 Drilling Engineer: Antime Cont