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

	Time of Mork	5. Lease Number	<u> </u>
ì.	Type of Work DRILL	USA SF-078387 Unit Reporting Nu	2002 2001 19 8 mb <b>e</b> 770 EARMAGT
э.	Type of Well GAS	6. If Indian, All. or Tr	ibe
	Operator  BURLINGTON  RESOURCES Oil & Gas Company	7. Unit Agreement N	ame
<u> </u>	Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Na Howell D 9. Well Number 354	
	Location of Well 1325'FSL, 1405'FEL	<b>10. Field, Pool, Wild</b> Basin Fruitland	
	Latitude 36° 51.0'N , Longitude 107° 40.6'W	A D1 24 OO O 4 E	Mer. (NMPM) T-31-N, R-8-W
4.	Distance in Miles from Nearest Town Navajo Dam Post Office - 8 Miles	<b>12. County</b> San Juan	13. State NM
5.	Distance from Proposed Location to Nearest Property or Lease 1325'	Line	
6.	Acres in Lease	17. Acres Assigned	to Well
8.	Distance from Proposed Location to Nearest Well, Drlg, Compl,	or Applied for on this Le	ease
9.	Proposed Depth 3126  This action is subject to technical and procedul at review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4	20. Rotary or Cable Rotary	Tools
1.	Elevations (DF, FT, GR, Etc.) 6246 Gr.	22. Approx. Date W	ork will Start
3.	Proposed Casing and Cementing Program See Operations Plan attached *GENERAL REQUIREMENT *GENE	OF AURITHANIAN	
<b>.4</b> .	Authorized by: Regulatory/Compliance Supervisor	<u>3-2/-</u> Date	02
	AIT NO. APPROVAL	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.

HOLD C104 FOR NSL - or infiller Sir NEADOD

District I PO Box 1980, Hobbs, NM 88241-1980 State of New Mexico
Energy. Minerals & Natural Resources Department

Form C-102 Revised February 21, 1994 Instructions on back

District II PO Drawer DD, Artesia, NM 88211-0719

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

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

District III 1000 Rio Brazos Ad., Aztec. NM 87410

AMENDED REPORT

District IV PO Box 2088, Santa Fe, NM 87504-2088

2615.581

WELL LOCATION AND ACREAGE DEDICATION PLAT													
1				Pool Coc	ol Code				³Pool Name	2		<del>· · · · · · · · · · · · · · · · · · · </del>	
30-045-31072				71629			Basin Fruitland Coal						
Property Code				°Property Name HOWELL D P								*Well Number 354	
'OGRID No.				Operator Name				*Elevation					
14538			OHLIN	GTON RESOURCES OIL & GAS COMPA				ANY LF			6246 '		
	- Cantina	Township	Range	10 Surface   Range   Lot Idn   Feet from the			LOCation   North/South line   Feet from th			Eact /Wo	est line	County	
UL or lot no.	Section 33	31N	8W	COC TOIL	1325			405	EA		SAN JUAN		
			ottom	Hole L	_ocatio			Fro	rom Surface			<u> </u>	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from		North/South line				est line	County	
Dedicated Acres E/320	·	•			<sup>13</sup> Joint or Ir	nfill	<sup>14</sup> Consolidation Code	<sup>15</sup> Onder	No.				
NO ALLOW	IABLE W	ILL BE /	ASSIGNE	D TO TH	IIS COMPL	ETI	L DN UNTIL ALL	INTE	RESTS H	IAVE BE	EEN CON	NSOLIDATED	
		OR A	NON-57	ANDARD	UNIT HA	S BE	EN APPROVED	BY T	HE DIVI	SION		-	
5243.04				33-	USA	· ·	14. 36. 107 40.6 W 20. 107 40.6 W 14. 36.51.0 W 14. 36.51.0 W 14. 36.51.0 W 14. 36.51.0 W	5200.80	Signatur Peggy Printed Regul Title Date  18 SURV I hereby shown on notes of my superv and corre Survey Signature	Cole Name atory  EYOR certify the this plat actual sure ission, and cert to the Date: and Seal	Superv  CERTI  CERTI  nat the we was plott  rveys made that the best of m  JANUAR  of Profes  C. EDW	FICATION Il location Led from field by me or under same is true my belief. RY 21, 2002	
	KS 81				1220'	25'	1405		U /		5269 FESSION	BO/A	
	· Allah					$\overline{\omega}$	1						

2634.72

Certificate Number

## OPERATIONS PLAN

Well Name: Howell D POW #354

Location: 1325' FSL, 1405' FEL, Section 33, T-31-N, R-8-W

Latitude 36° 51.0'N, Longitude 107° 40.6'W

San Juan County, NM Formation: Basin Fruitland Coal

Elevation: 6246' GR

Formation:	Top	Bottom	Contents
Surface	San Jose	1895'	
Ojo Alamo	1895'	2068'	aquifer
Kirtland	2068'	2670'	gas
Fruitland	2670'	2893'	gas
Intermediate casing	2843'		
T/Coal	2893	3122	gas
Basal Coal	3122 <b>'</b>		gas
Total Depth	3126'		

## Logging Program:

Open hole - GR, CDL - TD to 2843 Mud log - TD to 2843

Coring Program: none

### Mud Program:

Interval	Туре	Weight	Vis.	Fluid Loss
0- 200'	Spud		40-50	no control
200-2843'	Non-dispersed	8.4-9.0	30-60	no control
2843-3126'	Air Mist			

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

Hole Size	Depth Interval	Csg.Size	<u>Wt.</u>	<u>Grade</u>
12 1/4"	0' - 200'	9 5/8"	32.3#	H-40
8 3/4"	0' - 2843'	7"	20.0#	K-55
6 1/4"	2803' - 3126'	5 1/2"	15.5#	K-55
Tubing Program:				
	o' - 3126'	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. Three centralizers run every fourth joint above shoe. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 2068'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

5 1/2" production casing - Pre-drilled liner run to the 7" casing with an overlap. Liner hanger is a slip grip type.

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 133 sx Type III cement with ¼ pps cellophane and 2% calcium chloride (188 cu.ft. of slurry, 200% excess to circulate to surface). WOC 8 hrs. Test casing to 600 psi/30 minutes.

7" intermediate casing - lead w/343 sacks Premium LIte with 3% Cacl, 5 pps Lcm-1, 0.4% FL-52, 0.4% sms and 1/4 pps sack Flocele. Tail with 90 sacks Type III Cement with 1% calcium chloride, 1/4 pps flocele (855 cu.ft., 100% excess to circulate to surface).

5 1/2" liner - uncemented.

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 2500 psi for 30 minutes; all pipe rams and casing to 2500 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 1000 psi.
- This gas is dedicated.
- The east half of section 33 is dedicated to this well.

Drilling Engineer: Eric J. Files Date: 4/18/02

