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

la.	Type of Work	5. Lease Number 20 17 PM NMNM03371
	DRILL	Unit Reporting Number
lb.	Type of Well GAS	6. If Indian, All. or Tribe
	GAS	
2.	Operator BURLINGTON	7. Unit Agreement Name
	RESCURCES Oil & Gas Company OCT 2003	
3.	Address & Phone No. of Operator	4
	PO Box 4289, Farmington, NM 87499	Dundiff A  9. Well Number
	(505) 326-9700	2R
4.	Location of Well	10. Field, Pool, Wildcat
	880'FNL, 560'FEL	Basin Fruitland Coal 11. Sec., Twn, Rge, Mer. (NMPM)
	Latitude 36° 59.4608'N, Longitude 108° 06.6546'	
14.	Distance in Miles from Nearest Town	12. County 13. State
	14 miles to Post Office in La Plata, NM	San Juan NM
15.	Distance from Proposed Location to Nearest Property or Lease L	ine
4.6	560' Acres in Lease	47 Agree Agricumed to Mell
16.	Acres in Lease	17. Acres Assigned to Well 299.27
18.	Distance from Proposed Location to Nearest Well, Drlg, Compl, o 2794'	r Applied for on this Lease
19.	Proposed Depth	20. Rotary or Cable Tools
	1365'	Rotary
21.	Elevations (DF, FT, GR, Etc.)	22. Approx. Date Work will Start
	6107' GR	
23.	Proposed Casing and Cementing Program See Operations Plan attached	·····
24.	Authorized by: Signification Calif	6-14-03
<b>-7</b> .	Regulatory/Compliance Supervisor	Date
PERM	IIT NO. /2/ David J. Mankiewicz APPROVAL DA	ATE
	OVED BY TITLE	DATEOCT_ 2 3 2003

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.

DRISHING 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

HOLD C164 FOR NSL

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 S11 South First, Artesia, N.M. 86210

DISTRICT III 1000 Rio Brazos Rd., Aztec, N.M. 87410 OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505 Submit to Appropriate District Office
State Lease - 4 Copies

State Lease - 4 Copies Fee Lease - 3 Copies

☐ AMENDED REPORT

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505

# WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-045-	*Pool Code 71629	*Pool Name Basin Fruitland Coal		
Property Code		Property Name	<sup>6</sup> Well Number 2R	
OGRID No.		<sup>9</sup> Elevation		
14538	BURLINGTON RESO	URCES OIL & GAS COMPANY LP	6107'	
14550	10 0			

Surface Location

UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line

Α .	17	32-N	12-W		880'	NORTH	560'	EAST	SAN JUAN
			11 Botte	om Hole	Location I	f Different Fro	om Surface		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acre			<sup>19</sup> Joint or	Infill	<sup>14</sup> Consolidation (	Code	<sup>15</sup> Order No.		
			1				}	•	

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

OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION							
LOT 4	FD 3 1/4" B.L.M. BC 1952 LOT 3	S 85-13-3, 2439.65' (LOT 2	2 W (M) -08 LOT 1	FD 3 1/4"1 B.L.M. BC 1952	17 OPERATOR CERTIFICATION  I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief		
 	LONG. 108°06		107	S 01-08-01 W 2645.01 (M)	Signature Peggy Cole		
	LOT 6	LOT 7	LOT	S 01-0 2645.0	Printed Name  Regulatory Supervisor  Title 6-/9-03  Date		
LOT 12	LOT 11	COT 2503	FD B.L.	3 1/4" .M. BC 1952 9	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.  Date of Survey on MEXIC.  Signature and Sam of Protessional Surveyor:		
LOT 13	LOT 14	LOT 15 No.			Signature and Sear of Protestional Surveyor:  14827  PROFESSIONAL  Certificate Number		

#### OPERATIONS PLAN

Well Name: Cundiff A #2R

Location: 880'FNL, 560'FEL Section 17, T-32-N, R-12-W

Latitude 36° 59.4608'N, Longitude 108° 06.6546'W

San Juan County, NM

Formation: Basin Fruitland Coal

Elevation: 6107'GL

Formation:	Top	Bottom	Contents
Surface	Kirtland	809'	
Fruitland	809'	1163'	gas
Fruitland Coal	1163'	1165'	gas
Pictured Cliffs	1165′	1365 <b>′</b>	gas
Total Depth	1365'		-

Logging Program: Density/Cal/GR TD-surface.
Mud log: 2 man unit from surface casing to TD

Coring Program: none

### Mud Program:

Interval	Type	Weight	Vis.	Fluid Loss	
0- 120'	Spud	8.4-9.0	40-50	no control	
120-1365'	Non-dispersed	8.4-9.5	30-60	no control	

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

Hole Size	Depth Interval	Csg.Size	Wt.	Grade
8 3/4"	0' - 120'	7"	20.0#	J-55
6 1/4"	0' - 1365 <i>'</i>	4 1/2"	10.5#	J-55
Tubing Program:				
	0' - 1365'	2 3/8"	4.7#	J-55

Float Equipment: 7" surface casing - saw tooth guide shoe. Centralizers will be run in accordance with Onshore Order #2.

4 ½" production casing - guide shoe and self-fill float collar. Standard centralizers run every other joint above shoe for 300'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

Wellhead Equipment:  $7" \times 4 \frac{1}{2}" \times 2 \frac{3}{8}" \times 11" 2000$  psi screw on independent wellhead.

#### Cementing:

7" surface casing - cement with 38 sx Class "B" Type III cement with 0.25 pps Celloflake and 3% calcium chloride (54 cu.ft. of slurry, 200% excess to circulate to surface). WOC 24 hours for pre-set holes or 8 hours for conventionally set holes before pressure testing or drilling out from under surface casing. Test casing to 600 psi for 30 minutes.

4 1/2" production casing - Lead w/50 sx Premium Lite cement w/3% calcium chloride, 1/4 pps Cello-flake, 5 pps LCM-1, 0.4% FL-52, and 0.4% SMS. Tail w/90 sx Type III cement w/1% calcium chloride, 1/4 pps Cello-flake, and 0.2% FL-52 (210 cu.ft. of slurry, 50% excess to circulate to surface.) If cement is not circulated to surface, a temperature survey or CBL will be run during drilling or completion operations to determine TOC.

Note: If open hole logs are run, cement volumes will be based on 25% excess over caliper volumes.

#### BOP and tests:

Surface to TD - 11" 2000 psi (minimum double gate BOP stack (Reference Figure #1). Prior to drilling out surface casing, test rams to 600 psi/30 min.

Completion - 7 1/16" 2000 psi (minimum) double gate BOP stack (Reference Figure #2). Prior to completion operations, test rams and casing to 2000 psi/15 min.

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 and commingled.
- \* Anticipated pore pressure for the Fruitland is 500 psi.
- \* This gas is dedicated.
- \* The north half of Section 17 is dedicated to the Fruitland Coal.

Drilling Engineer

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