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

1a.	Type of Work DRILL	5. Lease Number 17 P	PH 2
		Unit Reporting Number	$\cap$ 0
1b.	Type of Well GAS	6. If Indian, All. or Tribe	OF1,
<b>2</b> .	Operator	7. Unit Agreement Name	
<b>-</b> -	BURLINGTON RESCURCES Oil & Gas Compar	•	
3.	Address & Phone No. of Operator	8. Farm or Lease Name	
	PO Box 4289, Farmington, NM	87499 Cundiff <b>9. Well Number</b>	
	(505) 326-9700	100	
4.	Location of Well	10. Field, Pool, Wildcat	
	1000'FNL, 930'FEL	Basin Fruitland Co 11. Sec., Twn, Rge, Mer. (NMPM)	
	<b>Latitude 36<sup>0</sup> 58.5595'N,</b> Longi	tude 108° 07.7721'W A Sec.19, T-32-N, R  API # 30-045- 3/794	-12
14.	Distance in Miles from Nearest Town	12. County 13. Stat	te
	15 miles to Post Office in La	Plata, NM San Juan	NM
15.	Distance from Proposed Location to Nea	rest Property or Lease Line	
16.	Acres in Lease	17. Acres Assigned to Well 317.36 N	
18.	Distance from Proposed Location to Nea	rest Well, Drig, Compl, or Applied for on this Lease	
19.	Proposed Depth 2064'	20. Rotary or Cable Tools Rotary	
21.	Elevations (DF, FT, GR, Etc.) 5902' GR	22 Approx. Date Work will Star	t
23.	Proposed Casing and Cementing Progra See Operations Plan attache	N	
24.	Authorized by:  Regulatory/Compli	ance Supervisor Date	<u>3</u>
	IIT NO.	APPROVAL DATE	
PERM			

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.

DISTRICT I P.O. Box 1980, Hobbs, N.M. 88241-1980

## State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised February 21, 1994

instructions on back Submit to Appropriate District Office

State Lease — 4 Copies Fee Lease — 3 Copies

East/West line

Feet from the

DISTRICT II P.O. Drawer DD, Artesia, N.M. 88211-0719

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

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

1 API Number

Section

Township

Range

UL or lot no.

N/317.36

**OIL CONSERVATION DIVISION** P.O. Box 2088 Santa Fe, NM 87504-2088

☐ AMENDED REPORT

County

# WELL LOCATION AND ACREAGE DEDICATION PLAT <sup>3</sup> Pool Name

30-045- 3(79	71629	Basin Fruitland Coal		
<sup>4</sup> Property Code 6938		perty Name JNDIFF	* Well Number 100	
70GRID No. 14538	•	orator Name S OIL & GAS COMPANY LP	Elevation 5902	

<sup>10</sup> Surface <u>Location</u> North/South line Lot Idn Feet from the

12 Dedicated Acres 13 Joint or Infill		<sup>14</sup> Consolidation Code		18 Order No.						
UL	or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<sup>11</sup> Bottom Hole Location If Different From Surface										
	Α	19	32-N	12-W		1000	NORTH	930	EAST	SAN JUAN

16		DARD UNIT HAS B	EEN API	ROVED BY	THE DIVISION
LOT 1	FD 3 1/4"   BLM 1952 BRASS CAP	N 88'46'24" W 2720.42'(M)	1000,	FD 3 1/4" BLM 1952 BRASS CAP	OPERATOR CERTIFICATION  1 hereby certify that the information contained herein is true and complete to the best of my knowledge and belief
USA SF-078311	LAT: 36°58.55° LONG:108°07.7	95' N. (NAD 27) 7721' W. (NAD 27)	<b>6</b> —	930'	
LOT 2	USA SF-078311	USA SF-	-078311	S 01'39'57" W 2634.49' (M)	Signature / Peggy Cole Printed Name Regulatory Supervisor Title 6 - / 9 - 0 3
LOT 3	,	9 =	<b>3</b>	FD 3 1/4" BLM 1952 BRASS CAP	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
LOT 4		DEVENTAL FM 2 17 PM 2 1070 Farmington, 1			Signature and Seal of Professional Surveyor:  14827  Certificate Number

### OPERATIONS PLAN

Well Name: Cundiff #100

Location: 1000'FNL, 930'FEL Section 19, T-32-N, R-12-W

Latitude 36° 58.5595'N, Longitude 108° 07.7721'W

San Juan County, NM

Formation: Basin Fruitland Coal

Elevation: 5902'GL

Formation:	Top	Bottom	Contents
Surface	Kirtland	1395'	
Fruitland Fruitland Coal	1395'	1859'	gas
Pictured Cliffs	1859' 1864'	<b>1864'</b> 2064'	gas qas
Total Depth	2064'	2004	yas

Logging Program: Density/Cal/GR TD-surface.

Mud log: none

Coring Program: none

#### Mud Program:

<u>Interval</u>	Type	Weight	Vis.	Fluid Loss
0- 120'	Spud	8.4-9.0	40-50	no control
120-2064'	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' - 2064'	4 1/2"	10.5#	J-55
Tubing Program:				
	0' - 2064'	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 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.

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4 1/2" production casing - Lead w/98 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 (317 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 19 is dedicated to the Fruitland Coal.

Drilling Engineer Courty

Date 7 2003