UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

a.	Type of Work	5. Lease Number
а.	DRILL	NMNM58887
		Unit Reporting Number Farming
b.	Type of Well	6. If Indian, All. or Tribe
	GAS	
	Operator	7. Unit Agreement Name
	BURLINGTON	The second secon
_	RESOURCES Oil & Gas Company	
	Address & Phone No. of Operator	8. Farm or Lease Name
	PO Box 4289, Farmington, NM 87499	Newco
		9. Well Number
	(505) 326-9700	100S
	Location of Well	10. Field, Pool, Wildcat
•	2575'FNL, 465'FWL	Basin Fruitland Coal
	20,5 112, 200 1.12	11. Sec., Twn, Rge, Mer. (NMPM)
	Latitude 36 ^O 58.2238, Longitude 107 ^O 48.5528	Sec.20, T-32-N, R-9-W
		API# 30-045- 31426
4.	Distance in Miles from Nearest Town	12. County 13. State
7.	21 miles to intersection Hwy 550 & Hwy 173 in 1	
		AZCEC SAD DIAD NM
	21 miles to intersection may 330 & may 1/3 in 1	Aztec San Juan NM
5.	Distance from Proposed Location to Nearest Property or Lease L	·
	Distance from Proposed Location to Nearest Property or Lease L	ine
5. 6.	Distance from Proposed Location to Nearest Property or Lease L	ine 17. Acres Assigned to Well
	Distance from Proposed Location to Nearest Property or Lease L	ine
	Distance from Proposed Location to Nearest Property or Lease L 465' Acres in Lease Distance from Proposed Location to Nearest Well, Drlg, Compl, o	17. Acres Assigned to Well
8.	Distance from Proposed Location to Nearest Property or Lease L 465' Acres in Lease Distance from Proposed Location to Nearest Well, Drlg, Compl, o 75'	17. Acres Assigned to Well 317.89
6.	Distance from Proposed Location to Nearest Property or Lease L 465' Acres in Lease Distance from Proposed Location to Nearest Well, Drlg, Compl, o 75' Proposed Depth	17. Acres Assigned to Well 317.89 When the second of Applied for on this Lease 20. Rotary or Cable Tools
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8.	Distance from Proposed Location to Nearest Property or Lease L 465' Acres in Lease Distance from Proposed Location to Nearest Well, Drlg, Compl, o 75' Proposed Depth 3584'	17. Acres Assigned to Well 317.89 When the second of Applied for on this Lease 20. Rotary or Cable Tools
8. 9.	Distance from Proposed Location to Nearest Property or Lease L 465' Acres in Lease Distance from Proposed Location to Nearest Well, Drlg, Compl, o 75' Proposed Depth	or Applied for on this Lease 20. Rotary or Cable Tools Rotary
8. 9.	Distance from Proposed Location to Nearest Property or Lease L 465' Acres in Lease Distance from Proposed Location to Nearest Well, Drlg, Compl, o 75' Proposed Depth 3584' Elevations (DF, FT, GR, Etc.)	or Applied for on this Lease 20. Rotary or Cable Tools Rotary
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8. 9. 11.	Distance from Proposed Location to Nearest Property or Lease L 465' Acres in Lease Distance from Proposed Location to Nearest Well, Drlg, Compl, o 75' Proposed Depth 3584' Elevations (DF, FT, GR, Etc.) 6754' Proposed Casing and Cementing Program See Operations Plan attached	17. Acres Assigned to Well 317.89 When the state of Applied for on this Lease 20. Rotary or Cable Tools Rotary 22. Approx. Date Work will Start
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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.

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

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

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

"DISTRICT II P.O. Drower DD, Artesia, N.M. 88211-9719

STATE OT NEW MEXICO Energy, Minerals & Natural Resources Department

rorm C-102

Revised February 21, 1994 Instructions on back Submit to Appropriate District Office State Lease — 4 Copies Fee Lease — 3 Copies

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

☐ AMENDED REPORT

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

DISTRICT III 1000 Rio Brazes Rd., Aziec, N.M. 87410

			² Pool Code			³ Pool Name	•			
30-045	-24	16	716	29		Basin Fruitl	and Coal			
⁴ Property Code 7361			*Property N NEWCO	^a Property Name NEWCO			• Well Number 100S			
70GRID No. 14538			E	BURLINGTO	*Operator Name RLINGTON RESOURCES OIL & GAS INC.				^e Elevation 6754	
					¹⁰ Surface	Location				
UL or lot no. E	Section 20	Township 32-N	Range 9-W	Lot Idn	Feet from the 2575	North/South line NORTH	Feet from the 465	East/West line WEST	County SAN JUAN	
			¹¹ Botto	m Hole	Location I	f Different Fr	om Surface			
UL or let no.	Section	Township	Range	Lot idn	Feet from the	North/South line	Feet from the	East/West line	County	
Pedicated Acres W/317	.89	13 ,	olnt or Infill	<u> </u>	¹⁴ Consolidation C	ode	¹⁵ Order No.			

	OR A NON-STA	ANDARD UNIT HAS B	EEN APPROVED BY	THE DIVISION
FD 3 1/ BLM 196	4 5037	29'45" E 7.90' (M) 	FD 3 1/4" BLM 1966 BC	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief
1" W (M) 2575'	LOT 3	LOT 2	LOT 1	
2648.30 2648.30	LAT: 36'58.2238' N LONG:107'48.5528'	I. (NAD 27) W. (NAD 27)	7343A	Signature Cace
1251	LOT 6	L OT 7	LOT 8	Printed Name Propulatory Supervisor
465' 844'	USA NM-58887	/	JUN 2003	Regulatory Supervisor 1-9-03
FD 3 1/4" 73' BLM 1986 B.C.		20 —	The state of the s	18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat
LOT 12	LOT 11	LOT 10	LOT 9	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 bellet
		garage and see a second		Date of Survey 25 CO
	·)) . []		Signature and Seal of Professional Superior
LOT 13	LOT 14	LOT 1 NN 'UOIG	ojmis rp40,40	
		6E:1 Wd	7003 EE8 5d	14827 Certificate Number
		NED W	E038	

OPERATIONS PLAN

Well Name: Newco #100S

Location: 2575'FNL, 465'FWL Section 20, T-32-N, R-9-W

Latitude 36° 58.2238'N, Longitude 107° 48.5528'W

San Juan County, NM

Formation: Basin Fruitland Coal

Elevation: 6754'GR

Formation:	Тор	Bottom	Contents
Surface	San Jose	2193'	
Ojo Alamo	2193'	2290'	aquifer
Kirtland	2290'	2955'	_
Fruitland	2955'	3314'	
Intermediate TD	3284'		
Fruitland Coal	3314'	3584'	gas
B/Basal Coal	3584'	3585'	gas
Total Depth	3584'		•
Pictured Cliffs	3585'		

Logging Program: none Coring Program: none

Mud Program:

Interval	<u>Type</u>	Weight	Vis.	Fluid Loss
0- 120'	Spud	8.4-9.0	40-50	no control
120-3284'	Non-dispersed	8.4-9.0	30-60	no control
3284-3584'	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' - 3284'	7"	20.0#	J-55
6 1/4"	3284' - 3584 '	open hol	Le	
Tubing Program:				
	0' - 3584'	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 @ 2290'. 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 32 sx Class A, B Portland Type I, II cement (38 cu.ft. of slurry, bring cement to surface through 3/4" line) or equivalent. WOC 24 hours for pre-set holes or 8 hours for conventionally set holes before pressure testing or drilling out from under surface casing.

7" intermediate casing - lead w/403 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 (982 cu.ft., 100% excess to circulate to surface).

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 20 is dedicated to the Fruitland Coal.

Date:	1/10/03	Drilling Engineer:	\mathcal{L}	1. Diles	
	1 '				