UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

BECEIVED

1.	Type of Work	5. Lease Number
	DRILL	NMSF078120A
	//	Unit Reporting Number 70 Farming
	(1	San () At (
) .	Type of Well	6. If Indian, All. or Tribe
	GAS	D5 26 27 20
		4000000
	Operator	7. Unit Agreement Name
	BURLINGTON	AUG 202
	RESOURCES Oil & Gas Company	32856
	<u> </u>	<u> </u>
	Address & Phone No. of Operator	இத்தி அத்தி. Farm or Lease Name
	PO Box 4289, Farmington, NN 87499	
		9. Well Number
	(505) 326-9700	(7/1/m/6 G) 501
		4.6 11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Location of Well	10. Field, Pool, Wildcat
	990'FNL, 1715'FWL	Basin Fruitland Coal
	Latitude 36° 51.6070'N, Longitude 3	11. Sec., Twn, Rge, Mer. (NMPM)
	Latitude 36" 51.60/0"N, Longitude .	108° 04.2300'W
		31797
4.	Distance in Miles from Nearest Town	12. County 13. State
••	7 miles to Aztec	San Juan NM
		YIII
5.	Distance from Proposed Location to Nearest Pro	operty or Lease Line
	990'	
6.	Acres in Lease	17. Acres Assigned to Well
		320 N/2
		('
3.	Distance from Proposed Location to Nearest We	ell, Drlg, Compl, or Applied for on this Lease
	75'	00 D.4 O.1 T.4
9.	Proposed Depth	20. Rotary or Cable Tools
	2556'	Rotary
1	Elevations (DF, FT, GR, Etc.)	22. Approx. Date Work will Start
	5945' GR	22. Approx. Date work will start
3.	Proposed Casing and Cementing Program	
-	See Operations Plan attached	
	(V.a. /	n a
4.	Authorized by: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	7-9-03
	Regulatory/Compliance	Supervisor Date
	/- <u> </u>	_
	T 110	ADDDOV44 DATE
	T NO. DVED BY /s/ David J. Mankiewicz TITLE	APPROVAL DATE AUG 2 6 200

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 3165.8 and appeal pursuant to 43 CFR 3165.4

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

Instructions on back
Mit to Appropriate District Office

District II
PO Drawer DD. Artesia. NM 88211-0719
District III
1000 Rio Brazos Rd. Aztec. NM 87410

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

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

AMENDED REPORT

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

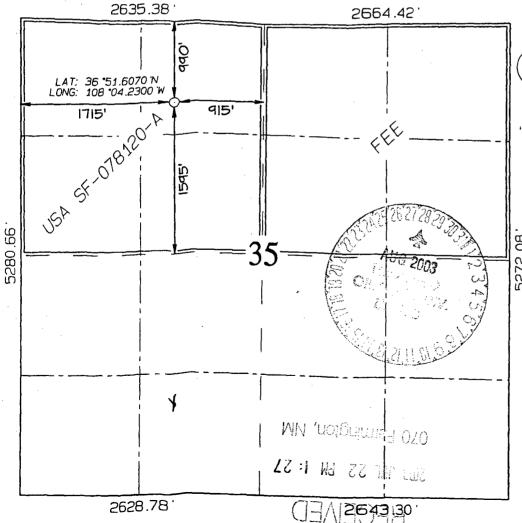
N/320

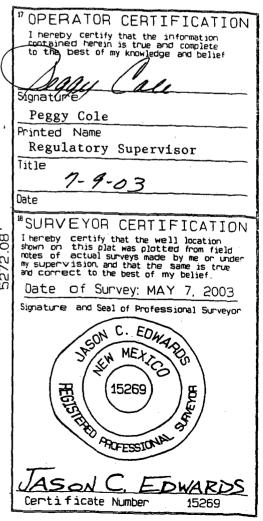
WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number	Pool Code	³Pool Name	
30-045- 3179	71629	Basin Fruitland Coal	•
Property Code 32856		roperty Name NDELL COM	*Well Number 501
'OGRID No. 14538	BURLINGTON RESOUR	perator Name CES OIL & GAS COMPANY, LP	Elevation 5945
	10 Sup f	ace Location	

Location Range UL or lot no. Township Lat Idn Sect ior Feet from the North/South line Feet from the East/West line County 12W C 35 31N 990 NORTH 1715 WEST SAN JUAN ¹¹Bottom Hole Location If Different From Surface Township Lot Idn UL or lot no. Section Feet from the North/South line Feet from the East/West line County 12 Dedicated Acres 13 Joint or Infill 34 Consolidation Code ¹⁵ Order No.

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





OPERATIONS PLAN

Well Name: Crandell Com #501

Location: 990'FNL, 1715'FWL Section 35, T-31-N, R-12-W

Latitude 36° 51.6070'N, Longitude 108° 04.2300'W

San Juan County, NM Basin Fruitland Coal

Elevation: 5945'GL

Formation:

Formation:	Тор	Bottom	Contents
Surface	Animas	716'	
Ojo Alamo	716'	764'	aquifer
Kirtland	764'	2002'	_
Fruitland	2002'	2065'	gas
Fruitland Coal	2065'	2346'	gas
B/Coal	2346 ′	2356 ′	gas
Pictured Cliffs	2356 ′		gas
Total Depth	2556'		_

Logging Program: none

Mud log: none

Coring Program: none

Mud Program:

Interval	Type	Weight	Vis.	Fluid Loss
0- 120'	Spud		40-50	no control
120-2556'	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' - 2556'	4 1/2"	10.5#	J-55

Tubing Program:

0' - 2556' 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 %" production 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 @ 764'. 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/126 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 (393 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 35 is dedicated to the Fruitland Coal.

Drilling Engineer

Date