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

la.	Type of Work DRILL	5. Lease Number 133 MIR 25 PM NMSF076465
		Unit Reporting Number
4 L	Type of Wall	070 Farmington
lb.	Type of Well GAS	6. If Indian, All. or Tribe
	CAN A	South the second of the second
2.	Operator / May 202	্যা 7. Unit Agreement Name
	BURLINGTON COMPANY COMPANY	3533
	Address & Phone No. of Operator	€. Sarm or Lease Name
	PO Box 4289, Farmington, NM 87499	Cornell Com
		9. Well Number
	(505) 326-9700	500
4.	Location of Well	10. Field, Pool, Wildcat
	840'FSL, 1550'FWL	Basin Fruitland Coal
		11. Sec., Twn, Rge, Mer. (NMPM)
	Latitude 36 <sup>0</sup> 45.0045, Longitude 108 <sup>0</sup> 04.2	
		API# 30-045- 31580
14.	Distance in Miles from Nearest Town	12. County 13. State
	8 miles to Farmington	San Juan NM
15.	Distance from Proposed Location to Nearest Property or 840'	Lease Line
16.	Acres in Lease	17. Acres Assigned to Well
		321 5/1
		0/2
18.	Distance from Proposed Location to Nearest Well, Drlg, C 1200'	ompl, or Applied for on this Lease
19.	Proposed Depth	20. Rotary or Cable Tools
	2112'	Rotary
	Flouritions (DE FT OD F4.)	Deta Wester III Ote A
21.	Elevations (DF, FT, GR, Etc.) 5793' GR	22. Approx. Date Work will Start
	31/3 GR	
23.	Proposed Casing and Cementing Program	
	See Operations Plan attached	
	$\langle \ \rangle$	
24.	Authorized by:	<u>3-/z-03</u>
	Regulatory/Compliance Supervi	sor Date
PERM	IIT NO APPRO	OVAL DATE
	/s/ David .   Mankieuicz	APR 2 9 20
	OVED BY TITLE	DATE "" 2 5 2

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".

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

1000 Rio Brazos Rd., Aztec, NM 87410

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

Instructions on back Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

AMENDED REPORT

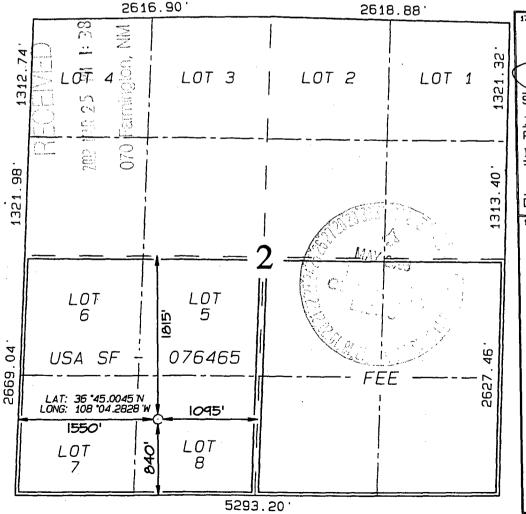
District IV PO Box 2088. Santa Fe. NM 87504-2088

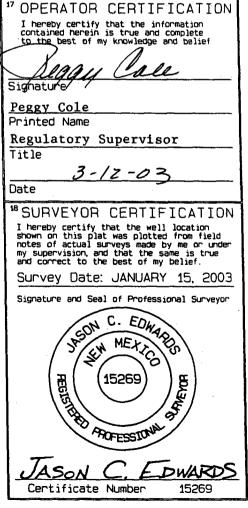
FTC - S/321

WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number Pool Cod			е	'Pool Name						
30-045- 3/580 71629			9	Bas	Basin Fruitland Coal					
Property Code				*Property Name				*Well Number		
32338			CORNELL COM				500			
'OGRID No.				*Operator Name				*Elevation		
BURLINGT(			IGTON P	RESOURCES OIL & GAS COMPANY, LP				5793		
				•	<sup>10</sup> Surface	Location	<del>-</del>			
UL or lot no.	Section	Township	Range	Lot Ion	Feet from the	North/South line	Feet from the	East/West	line	County
Ν	2	29N	12W		840	SOUTH	1550	WES	T	SAN JUAN
		11 E	ottom	Hole L	ocation I	f Different	From Surf	ace		
UL or lot no.	Section	Township	Range	Lot lon	Feet from the	North/South line	Feet from the	East/West	line	County
	1									
12 Dedicated Acres			13 Joint or Infill	<sup>14</sup> Consolidation Code	<sup>25</sup> Order No.	<u> </u>		<del></del>		

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: Cornell Com #500

Location: 840'FSL, 1550'FWL Section 2, T-29-N, R-12-W

San Juan County, NM

Formation: Basin Fruitland Coal

Elevation: 5793'GR

Formation:	Тор	Bottom	Contents
Surface	San Jose	539'	
Ojo Alamo	539'	696'	aquifer
Kirtland	696'	1569'	
Fruitland	1569'	1907'	gas
B/Basal Coal	1907'	1912'	gas
Pictured Cliffs	1912'	2112'	gas
Total Depth	2112'	*	

Logging Program: Cased hole: GR/DEN/CAL - TD to surface

Mudlog: none

Coring Program: none

## Mud Program:

Interval	Type	Weight	Vis.	Fluid Loss
0- 120'	Spud	8.4-9.0	40-50	no control
120-2112'	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' - 2112'	4 1/2"	10.5#	J-55
Tubing Program:				
	o' - 2112'	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. Three centralizers run every other joint above shoe. Nine centralizers run every 3<sup>rd</sup> joint to the base of the Ojo Alamo @ 696'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 696'. 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/95 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 (325 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.

4-1/2" production casing alternative two stage - Stage collar @ 1469'. First stage: cement with 72 sxs Type III cmt w/1% calcium chloride, 0.25 pps flocele, 0.2% fluid loss. Second stage: 106 sxs Premium Lite cmt w/3% calcium chloride, 0.25 pps Flocele, 5 pps LCM-1, 0.4% fluid loss, 0.4% SMS (325 cu.ft. of slurry, 50% 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 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 570 psi.
- \* This gas is dedicated.
- \* The south half of Section 2 is dedicated to the Fruitland Coal.

Driving Engineer

Date