UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

1a.	Type of Work	5. Lease Number
	DRILL	SF-081098
		Unit Reporting Number
1b.	Type of Well GAS	6. If Indian, All. or Tribe
2.	Operator BURLINGTON RESOURCES Oil & Gas Company APR 2001	7. Unit Agreement Name
3.	Address & Phone No. of Operator	8. Farm or Lease Name
	PO Box 4289, Farmington, 114874	Riddle 9. Well Number
	(505) 326-9700	#2C
4.	Location of Well	10. Field, Pool, Wildcat
	800'FSL, 1955'FWL	Blanco PC/Blanco MV
	Latitude 36° 50.1'N, Longitude 107° 46.2'W	11. Sec., Twn, Rge, Mer. (NMPM) N Sec.3, T-30-N, R-9-
	Latitude 36 30.1 N, Bongitude 107 40.2 N	API# 30-045- 30 483
14.	Distance in Miles from Nearest Town	12. County 13. State
14.	16 miles from Aztec	San Juan N
<u> </u>	Description Description Land	Line
15.	Distance from Proposed Location to Nearest Property or Lease 800'	Line
16.	Acres in Lease	17. Acres Assigned to Well PC: SW/160 MV: W/322.86
18.	Distance from Proposed Location to Nearest Well, Drlg, Compl	, or Applied for on this Lease
19.	Proposed Depth 5461' This action is subject to trechousal and precedural review pursuant to 43 CFR 31 and appeal pursuant te 43 CFR 3165.4.	20. Rotary or Cable Tools Rotary
21.	Elevations (DF, FT, GR, Etc.) 6039' GR	22. Approx. Date Work will Start
23.	Proposed Casing and Cementing Program See Operations Plan attached	ORILLING OPERATIONS AUTHORIDES TA HER WITH THE PROPERTY OF T
24.	Authorized by: Authorized by:	"GENERAL REQUIREMENTS". // - 20 - OC
	Regulatory/Compliance Supervisor	Date
	ADDDOVAL	DATE
PER	MIT NO APPROVAL	DATE

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 ! 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

DISTRICT II P.O. Drawer DD, Artesia, N.M. 88211-0719 Submit to Appropriate District Office
State Lease — 4 Copies
Fee Lease — 3 Copies

DISTRICT III 1000 Rio Brazos Rd., Aztec, N.M. 87410 P.O. Box 2088
Santa Fe, NM 87504—2088

AMENDED REPORT

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

	VELL EGONTION AND		
30-045- 30(83	3 Pool Code 3Pool Name 72359/72319 Blanco Pictured Cliffs/		s/Blanco Mesaverde
30-043- 304 8 3		A. N.	⁶ Well Number
⁴ Property Code 7424		Property Name RIDDLE	2 C
OGRID No.	•(Operator Name	* Elevation 6039'
14538	BURLINGTON OIL AND GAS, INC.		

10 Surface Location

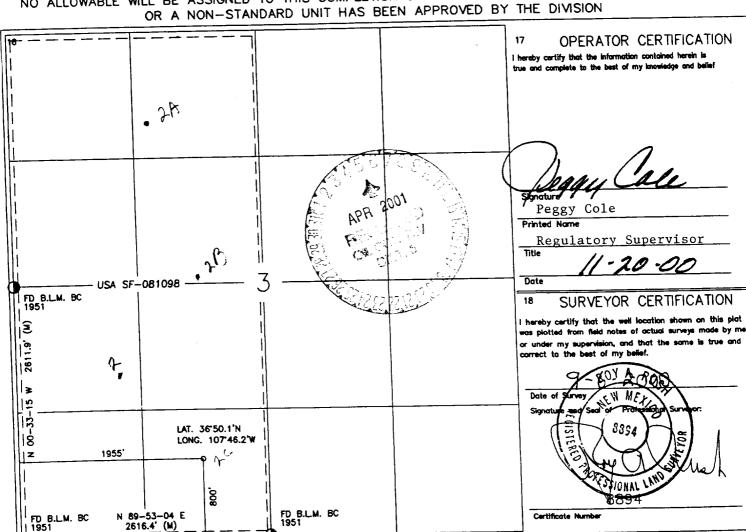
						Jarrace				
[UL or lot no.	Section 3	Township 30-N	Range 9-W	Lot idn	Feet from the 800'	North/South line SOUTH	Feet from the 1955'	East/West line WEST	County SAN JUAN
- 1	13		1 ''							

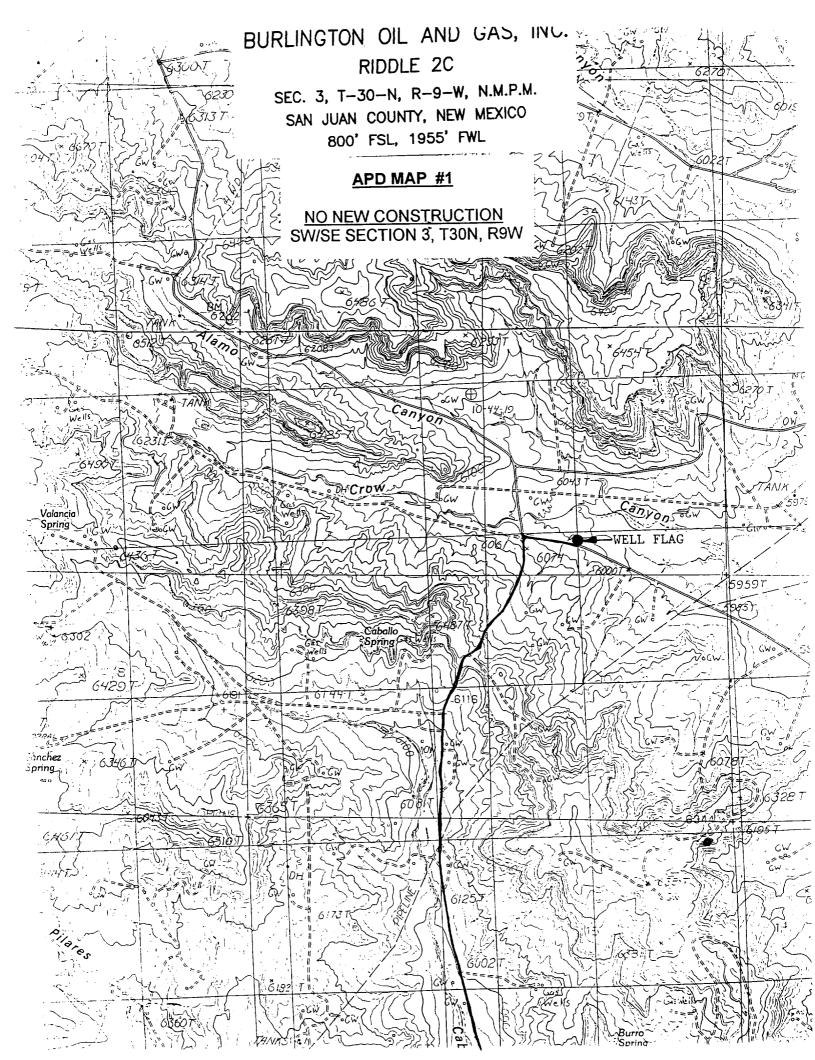
"Bottom Hole Location If Different From Surface

			- '' Bott	om Hole	Location i	i Dillerent in				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
Dedicated Acres		is J	oint or Infill		¹⁴ Consolidation Co	de	¹⁵ Order No.			

MV: W/322.86

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: Riddle #2C

Location: 800'FSL, 1955'FWL, Sec 3, T-30-N, R-9-W

San Juan County, NM

Latitude 36° 50.1, Longitude 107° 46.2

Formation: Blanco Pictured Cliffs/Blanco Mesaverde

Elevation: 6039' GL

Formation Tops:	Top	Bottom	Contents
Surface	San Jose	1521'	
Ojo Alamo	1521'	1651′	aquifer
Kirtland	1651 ′	2208′	gas
Fruitland	2208'	2836'	gas
Pictured Cliffs	2836'	2949'	gas
Lewis	2949'	3571 '	gas
Intermediate TD	3199'		
Mesa Verde	3571 ′	3891 ′	gas
Chacra	3891 '	4579 ′	gas
Massive Cliff House	4579 '	4691'	gas
Menefee	4691'	5061 ′	gas
Massive Point Lookout	5061'	5461'	gas
TD	5461 '—		

Logging Program:

Open hole - Array Induction, Neutron-Density - intermediate TD to

Cased hole - GR/CBL - TD to surface

Cores - none

Mud Program:

Interval	Type	Weight	<u>Vis.</u>	<u>Fluid Loss</u>
0- 200'	Spud			no control
200- 3199'	LSND	8.4-9.0	30-60	no control
3199- 5461'	Air/N2	n/a	n/a	n/a

Pit levels will be visually monitored to detect gain or loss of fluid control.

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

Hole Size	Depth Interval	Csg.Size	<u>Wt.</u>	Grade
12 1/4"	0' - 200'	9 5/8"	32.3#	WC-50
8 3/4"	0' - 3199'	7 "	20.0#	J-55
6 1/4"	3099' - 5461'	4 1/2"	10.5#	K-55

Tubing Program:

0'	- 5461'	1 ½"	2.90#	EUE
0'	- 2949'	1 ½"	2.75#	IJ

BOP Specifications, Wellhead and Tests:

Surface to Intermediate TD -

11" 2000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out surface casing, rams and casing will be tested to 600 psi for 30 minutes.

BOP Specifications, Wellhead and Tests (Cont'd):

Intermediate TD to Total Depth -

11" 2000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out intermediate casing, rams and casing will be tested to 1500 psi for 30 minutes.

Surface to Total Depth -

2" nominal, 2000 psi minimum choke manifold (Reference Figure #3).

Completion Operations -

7 1/16" 2000 psi double gate BOP stack (Reference Figure #2). After nipple-up prior to completion, pipe rams, casing and liner top will be tested to 2000 psi for 15 minutes.

Wellhead -

9 5/8" x 7" x 2 3/8" x 2000 psi tree assembly.

General -

- Pipe rams will be actuated once each day and blind rams will be actuated once each trip to test proper functioning.
- An upper kelly cock valve with handle available and drill string valves to fit each drill string will be available on the rig floors at all times.
- BOP pit level drill will be conducted weekly for each drill crew.
- All BOP tests & drills will be recorded in daily drilling reports.
- Blind and pipe rams will be equipped with extension hand wheels.

Cementing:

9 5/8" surface casing - cement with 159 sx Class "H" cement with 1/4# flocele/sx and 3% calcium chloride (188 cu.ft. of slurry, 200% excess to circulate to surface). WOC 8 hrs. Test casing to 600 psi for 30 minutes.

Saw tooth guide shoe on bottom. Bowspring centralizers will be run in accordance with Onshore Order #2.

7" intermediate casing -

Lead w/328 sx 50/50 Class "G"/Trinity Light with 2.5% sodium metasilicate, 2% calcium chloride, 10 pps Gilsonite, 0.5 pps Flocele. Tail with 90 sx Class "G" 50/50 poz w/2% gel, 2% calcium chloride, 5 pps Gilsonite, 0.1% antifoam and 0.25 pps Flocele (962 cu.ft. of slurry, 100% excess to circulate to surface). WOC minimum of 8 hours before drilling out intermediate casing. If cement does not circulate to surface, a CBL will be run to determine TOC. Test casing to 1500 psi for 30 minutes.

7" intermediate casing alternative two stage: Stage collar at 2108'. First stage: cement w/256 sx 50/50 Class "G" poz w/2% gel, 2% calcium chloride, 5 pps Gilsonite, 0.1% antifoam and 0.25 pps Flocele. Second stage: w/246 sx 50/50 Class "G"/Trinity Light with 2.5% sodium metasilicate, 2% calcium chloride, 10 pps Gilsonite, 0.5 pps Flocele (962 cu.ft. of slurry, 100% excess to circulate to surface).

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. Bowspring centralizers spaced every other joint off bottom, to the base of the Ojo Alamo at 1651'. Two turbolating centralizers at the base of the Ojo Alamo at 1651'. Bowspring centralizers spaced every fourth joint from the base of the Ojo Alamo to the base of the surface casing.

Page Three

4 1/2" Production Liner -

Cement to circulate liner top. Pump 237 sx Class "G" 50/50 poz w/4.5% gel, 0.25 pps Flocele, 5 pps Gilsonite, 0.25% fluid loss, 0.1% retardant (339 cu.ft., 40% excess to circulate liner). WOC a minimum of 18 hrs prior to completing.

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

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. The liner hanger will have a rubber packoff.

 If hole conditions permit, an adequate water spacer will be pumped ahead of each cement job to prevent cement/ mud contamination or cement hydration.

Special Drilling Operations (Air/Mist Drilling):

The following equipment will be operational while gas/mist drilling:

- An anchored blooie line will be utilized to discharge all cuttings and circulating medium to the blow pit a minimum of 100' from the wellhead.
- The blooie line will be equipped with an automatic igniter or pilot light.
- Compressors will be located a minimum of 100' from the wellhead in the opposite direction from the blooie line.
- Engines will have spark arresters or water cooled exhaust.
- The rotating head will be properly lubricated and maintained.
- A float valve will be utilized above the bit.
- Mud circulating equipment, water, and mud materials will be sufficient to maintain control of the well.

Additional Information:

- The Pictured Cliffs and Mesa Verde formations will be completed and dualled.
- No abnormal temperatures or hazards are anticipated.
- Anticipated pore pressures are as follows:

Fruitland Coal 200 psi Pictured Cliffs 200 psi Mesa Verde 350 psi

- Sufficient LCM will be added to the mud system to maintain well control, if lost circulation is encountered below the top of the Pictured Cliffs.
- The southwest quarter of Section 3 is dedicated to the Pictured Cliffs and the west half of Section 3 is dedicated to the Mesa Verde formation of this well.
- This gas is dedicated.

Mike Woudinsky
Drilling Engineer

Date

11/29/00

Burlington Resources

2000 psi System Drilling Rig

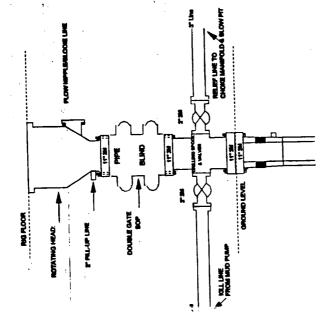
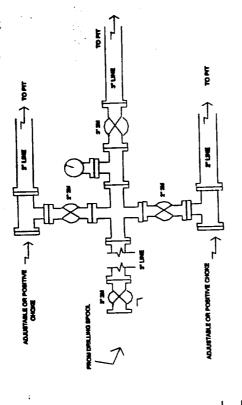


Figure #1

Drilling Rig Choke Manifold Configuration 2000 psi System



BURLINGTON RESOURCES

Completion/Workover Rig BOP Configuration 2,000 psi System

RIGITOOR

Choke manifold installation from Surface Ceaing Point to Total Depth. 2,000pel worlding pressure equipment with two chokes.

Check Velve

Figure #3

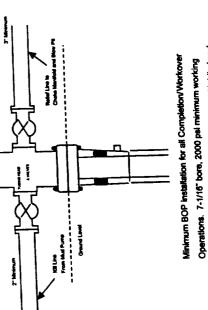


Figure #2

pressure double gate BOP to be equipped with blind and pipe rams. A stripping head to be installed on the top of the BOP. All equipment is 2000 psi working pressure or

greater.