UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

	T	5. Lease Number
a.	Type of Work	SF-078503A
	DRILL	Unit Reporting Number
b.	Type of Well	6. If Indian, All. or Tribe
	GAS -	
	Operator BURLINGTON	7. Unit Agreement Name
	RESOURCES Oil & Gas Company	San Juan 29-7 Unit
	Address & Phone No. of Operator	8. Farm or Lease Name
	PO Box 4289, Farmington, NM	San Juan 29-7 Unit
	(505) 326-9700 EEEE CENTON	117E
•	Location of Well	19. Field, Pool, Wildcat
/	1000' FNL, 1350' FWL	Basin Dakota
	Latitude 36° 42.1, Longitude 107° 26.8 8 / 9	C Sec. 30, T-29-N, R-7-
		API# 30-039- 2 6 6 4 8
4.	Distance in Miles from Nearest Town	12. County 13. State
	14 miles from Blanco	Rio Arriba NM
5.	Distance from Proposed Location to Nearest Property or Lease 1000'	Line
16.	Acres in Lease	17. Acres Assigned to Well 361.64
8.	Distance from Proposed Location to Nearest Well, Drlg, Compl, 245'	or Applied for on this Lease
19.	This action is subject to technical and	20. Rotary or Cable Tools
	7514' procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4.	Rotary
21.	Elevations (DF, FT, GR, Etc.)	22. Approx. Date Work will Start
	6337' GR →	DRILLING OPERATIONS AUTHORIZED A
23.	Proposed Casing and Cementing Program See Operations Plan attached	SUBJECT TO COMPLIANCE WITH ATTA "GENERAL REQUIREMENTS"
	Seas (al	12-19-00
24.	Authorized by: Regulatory/Compliance Supervisor	Date
a		
PERN	MIT NO APPROVAL	
	ROVED BY /8/ Jim Lovato TITLE Team Lead, Petro	leum Management 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 I 1825 N, French Dr., Hobbs, N.M. 88240

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised August 15, 2000

DISTRICT II 811 South First, Artesia, N.M. 88210

DISTRICT III 1000 Rio Brazos Rd., Aztec, N.M. 87410 OIL CONSERVATION DIVISION

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

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505 2040 South Pacheco Santa Fe, NM 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

LAPI Number	Pool Code	Pool Name	
30-039-,2664	71599 -	Basin Dakota 🦳	
⁴ Property Code		* Well Number	
7465	SAN	JUAN 29-7 UNIT	117E
OGRID No.		Operator Name	* Elevation
14538	BURLINGTON RE	ESOURCES OIL AND GAS, INC.	6337

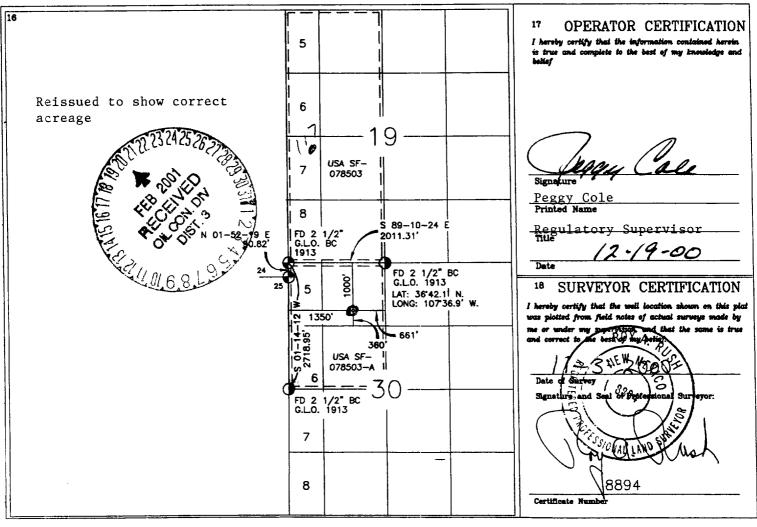
¹⁰ Surface Location

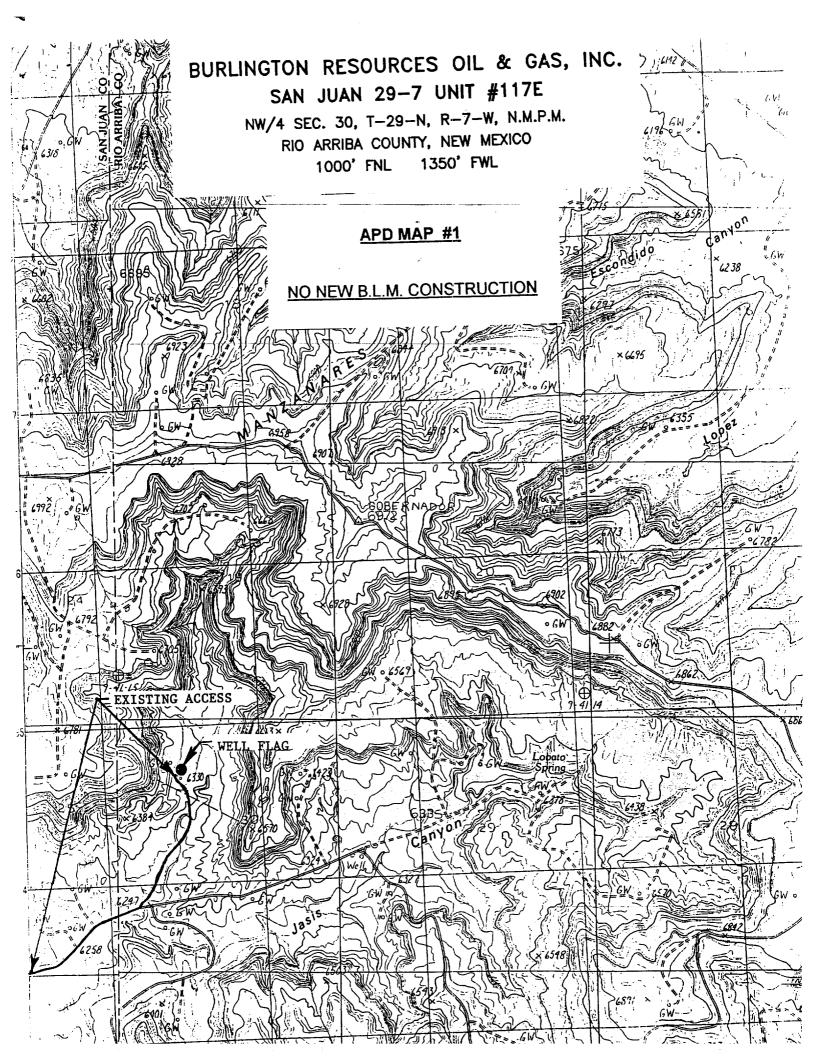
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
С	30	29-N	7-W		1000'	NORTH	1350'		RIO ARRIBA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
18 Dedicated Acres			¹³ Joint or	Infill	¹⁴ Consolidation (Code	15 Order No.	1	N/2 Sec 19
DK- 361	. 64						R-	3246 1	W/4 Sec 30

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: San Juan 29-7 Unit #117E

Location: 1000'FNL, 1350'FWL, Sec 30, T-29-N, R-7-W

Rio Arriba County, NM

Latitude 36° 42.1, Longitude 107° 36.9

Formation: Basin Dakota

Elevation: 6337' GL

Formation Tops:	<u>Top</u>	Bottom	Contents
Surface	San Jose	2044'	
Ojo Alamo	2044'	2184'	aquifer
Kirtland	2184'	2594 ′	gas
Fruitland	2594 '	3004'	gas
Pictured Cliffs	3004'	3109'	gas
Lewis	3109'	3619'	gas
Intermediate TD	3209'		_
Mesa Verde	3619 ′	3954 ′	gas
Chacra	3954 ′	4609'	gas
Massive Cliff House	4609'	4774'	gas
Menefee	4774'	5174 ′	gas
Massive Point Lookout	5174'	5704'	gas
Mancos	5704 ′	6449'	gas
Gallup	6449 '	7179 '	gas
Greenhorn	7179'	7234'	gas
Graneros	7234'	7269'	gas
Dakota	7269 '		gas
TD	7514'		

Logging Program:

Cased hole - CBL-CCL-GR - TD to surface Cores - none

Mud Program:

<u>Interval</u>	Type	Weight	Vis.	Fluid Loss
0- 200'	Spud		40-50	no control
200- 3209 '	LSND	8.4-9.0	30-60	no control
3209- 7514'	Gas	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	Wt.	Grade
12 1/4"	0' - 200'	9 5/8"	32.3#	WC-50
8 3/4"	0' - 3209'	7"	20.0#	J-55
6 1/4"	3109' - 7514'	4 1/2"	10.5#	K-55

Tubing Program:

0' - 7514' 2 3/8" 4.7# J-55

BOP Specifications, Wellhead and Tests:

Surface to Intermediate TD -

11" 3000 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.

Intermediate TD to Total Depth -

11" 3000 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, 3000 psi minimum choke manifold (Reference Figure #2).

Completion Operations -

7 1/16" 3000 psi double gate BOP stack (Reference Figure #3). 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 3000 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 drilling crew.
- All BOP tests and 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 "G" 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/330 sx 50/50 Class "G" TXI Liteweight cement with 2.5% sodium metasilicate, 5 pps Gilsonite and 0.5 pps flocele. Tail w/90 sx Class "G" 50/50 poz w/2% gel, 2% calcium chloride, 5 pps Gilsonite, 0.5 pps Flocele (966 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 during completion operations to determine TOC. Test casing to 1500 psi for 30 minutes.

See attached alternative intermediate lead slurry.

7" intermediate casing alternative two stage: Stage collar 2494'. First stage: cement with w/168 sx Class "G" 50/50 poz w/2% gel, 2% calcium chloride, 5 pps gilsonite, 0.5 pps Flocele. Second stage: 291 sx 50/50 Class "G"/TXI Liteweight with 2.5% sodium metasilicate, 5 pps Gilsonite, 0.5 pps Flocele (966 cu.ft., 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 2184'. Two turbolating centralizers at the base of the Ojo Alamo at 2184'. Bowspring centralizers spaced every fourth joint from the base of the Ojo Alamo to the base of the surface casing.

4 1/2" Production Liner -

Cement to cover minimum of 100' of 4 1/2" x 7" overlap. Lead with 440 sx 50/50 Class "G" Poz with 5% gel, 0.25 pps flocele, 5 pps Gilsonite (633 cu.ft.), 40% excess to cement 4 1/2" x 7" overlap). WOC a minimum of 18 hrs prior to completing.

Cement float shoe on bottom with float collar spaced on top of shoe joint.

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

Note: To facilitate higher hydraulic stimulation completion work, no liner hanger will be used. In its place, a long string of 4 1/2" casing will be run and cemented with a minimum of 100' of cement overlap between the 4 1/2" x 7" casing strings. After completion of the well, a 4 1/2" retrievable bridge plug will be set below the top of cement in the 4 1/2" x 7" overlap. The 4 1/2" casing will then be backed off above the top of cement in the 4 1/2" x 7" overlap and laid down. The 4 1/2" bridge plug will then be retrieved and the production tubing will be run to produce the well.

 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 (Gas/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 bloose 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.
- Deduster equipment will be utilized.
- 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 Dakota formations will be completed.
- No abnormal temperatures or hazards are anticipated.
- Anticipated pore pressures are as follows:

Fruitland Coal 300 psi Pictured Cliffs 600 psi Mesa Verde 700 psi Dakota 2500 psi

- Sufficient LCM will be added to the mud system to maintain well control, if lost circulation is encountered.
- The northwest quarter of Section 30 and the southwest quarter of Section 19 is dedicated to the Dakota in this well.

• This gas is dedicated.

Ming Engineer

Date Date