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

Type of Well GAS Coperator Coperator Company	1a.	Type of Work DRILL	5. Lease Number SF-079392
Type of Well GAS Operator Oil & Gas Company Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 Location of Well 380' FNL, 2310' FWL Latitude 36° 34.8, Longitude 107° 23.0 Distance in Miles from Nearest Town 9 miles from Gobernador Distance from Proposed Location to Nearest Property or Lease Line 380' 15. Distance from Proposed Location to Nearest Property or Lease Line 380' 16. Acres in Lease 17. Acres Assigned to Well 311.82 N/2 Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 1400' This action is subject to technical and 19. Proposed Depth procedural review pursuant to 43 CFR 3165.3 7815' and appeal pursuant to 43 CFR 3165.4 21. Elevations (DF, FT, GR, Etc.) 6591' GR Distance from Proposed Cosing and Cementing Program See Operations Plan attached Authorized by Regulatory/Compliance Supervisor APPROVAL DATE See Supervisor APPROVAL DATE Sin Indian, All. or Tribe San Juan 27-5 Unit		18 19 19 19 19 19 19 19 19 19 19 19 19 19	Unit Reporting Number
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PERMIT NO APPROVAL DATE			Date
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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.

District I PO Box 1980, Hobbs, NM 88241-1980

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

District III 1000 Rio Brazos Rd., Aztec, NM 87410

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

State of New Mexico Energy, Minerals & Natural Resources Department

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

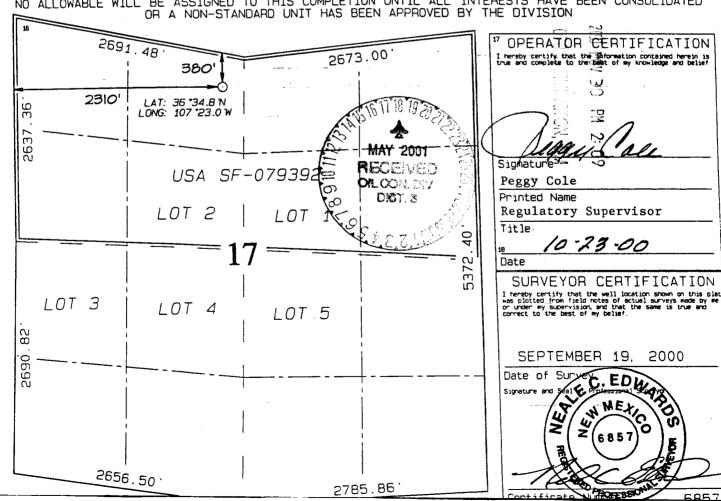
Form C-102 Revised February 21, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

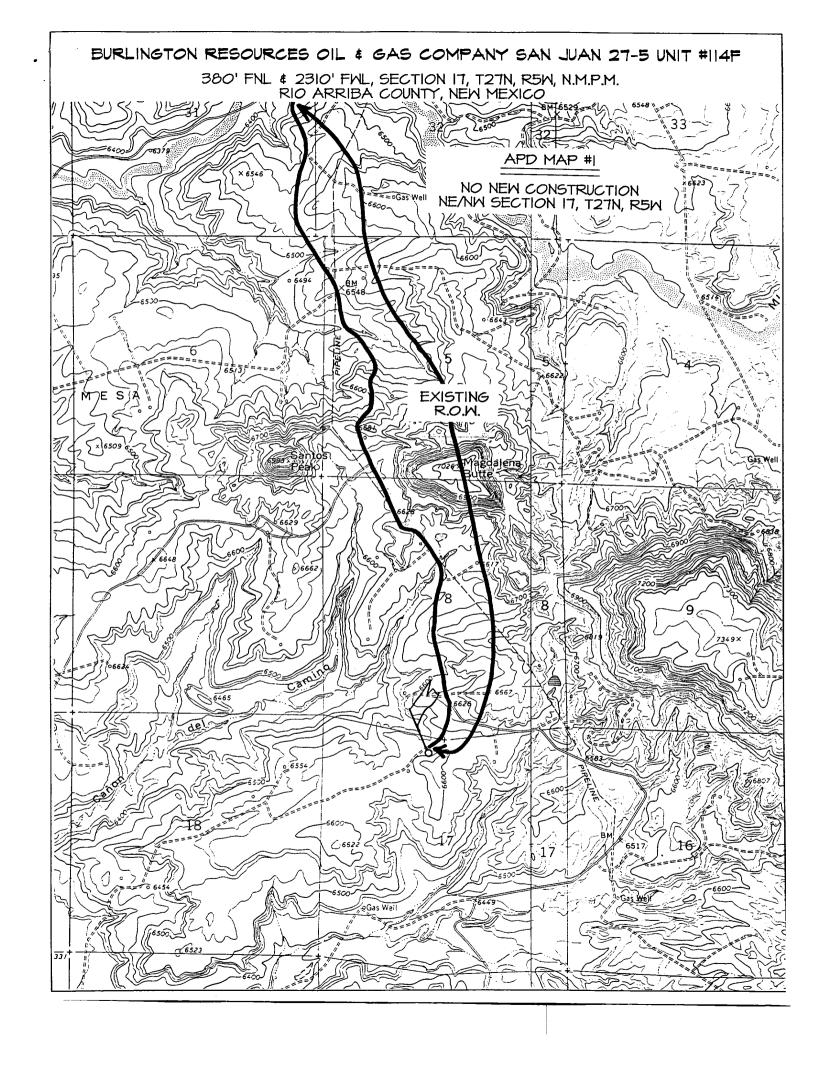
AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number			*Pool Code		Pool Name					
30-039- 4	265	54	7159	9	Bas	sin Dakota				
'Property Code				Property Name					Well Number	
7454			SAN JUAN 27-5 UNIT					114F		
'OGRID No.				*Operator Name					*Elevation	
14538 BI				NGTON F	RESOURCES	OIL & GAS	COMPANY		6591	
				10	^o Surface	Location				
UL or lot no.	Section	Township	Range	Lot Ion	Feet from the	North/South line	Feet from the	East/West li	ne County	
C	17	27N	5W		380	NORTH	2310	WEST	RIÓ ARRIBA	
¹¹ Bottom Hole Location If Different From Surface										
UL or lot no.	Section	qinenwaT	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West 1	ne County	
1										
12 Oedicated Acres		13 Joint or In	111 14 Cons	solidation Code	5 Order No.	11003	-			
DK-N/311	.82	<u> </u>				ロロン				

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

San Juan 27-5 Unit #114F Well Name:

380'FNL, 2310'FWL, Sec 17, T-27-N, R-5-W Location:

Rio Arriba County, NM Latitude 36° 34.8, Longitude 107° 23.0

Basin Dakota Formation:

6591' GL Elevation:

Formation Tops:	Top	Bottom	Contents 5
Surface	San Jose	2645'	
Ojo Alamo	2645'	2885 '	aquifer
Kirtland	2885 '	2954 '	gas
Fruitland	2954'	3384'	gas
Pictured Cliffs	3384'	3470'	gas
Lewis	3470 '	3880 '	gas
Intermediate TD	3570'		
Mesa Verde	3880 ′	4335 ′	gas
Chacra	4335	5039 ′	gas
Massive Cliff House	5039'	5197 '	gas
Menefee	5197 '	5541'	gas
Massive Point Lookout	5541'	6033'	gas
Mancos	6033 ′	6967 '	gas
Gallup	6967 '	7478 ′	gas
Greenhorn	7478'	7563 '	gas
Dakota	7563 ′		gas
TD	7815'		

Logging Program:

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

Mud Program:

Interval	Type	Weight	Vis.	Flui	ld Loss
0- 200'	Spud	8.4-9.0	40-50	no	control
200- 3570'	LSND	8.4-9.0	30-60	no	control
3570- 7815'	Air/Mist/N2*	n/	a	n/a	n/a

*Nitrogen might be used in conjunction with or instead of air to prevent a down hole fire.

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

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

, 110000	wie egu	_,,		, -
Depth Inte	rval (Csg.Size	Wt.	<u>Grade</u>
0' -			32.3#	WC-50
0' -	3570 '	7 "	20.0#	J-55
3470' -	7815'	4 1/2"	10.5#	K-55
	<u> </u>	Depth Interval	Depth Interval	0' - 200' 9 5/8" 32.3# 0' - 3570' 7" 20.0#

Tubing Program:

0' - 7815' 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 "B" 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/325 sx Class "G" cement 3% sodium metasilicate, 2% calcium chloride, 10 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, 0.25 pps Flocele (1074 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.

7" intermediate casing alternative two stage: Stage collar at 2854'. First stage: cement with w/168 sx 50/50 Class "G" poz w/2\$ calcium chloride, 2% gel, 5 pps gilsonite, 0.25 pps Flocele. Second stage: 291 sx Class "G" with 3% sodium metasilicate, 2% calcium chloride, 10 pps Gilsonite, 0.5 pps Flocele (1074 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 3020'. Two turbolating centralizers at the base of the Ojo Alamo at 3020'. 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 434 sx 50/50 Class "G" Poz with 5% gel, 0.25 pps flocele, 5 pps Gilsonite 0.1% retardant and 0.25% fluid loss additive (624 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 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.
- 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 formation 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 north half of Section 17 is dedicated to the Dakota in this well.
- This gas is dedicated.

Driffing Engineer Driff

10/24/00 Date