UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

4 ~	Type of Work	5. Lease Number
1a.	DRILL — CE IS IT IS TO SEE	SF-079391
		Unit Reporting Number
		891000950
1b.	Type of Well MAY 2001	6. If Indian, All. or Tribe
	GAS - RECEIVED G	
2.	Operator Operator	7. Unit Agreement Name
	RESOURCES Oil & Sas Company	San Juan 27-5 Unit
3.	Address & Phone No. of Operator	8. Farm or Lease Name
	PO Box 4289, Farmington, NM 87499	San Juan 27-5 Unit
		9. Well Number 112F
	(505) 326-9700	1121
4.	Location of Well	10. Field, Pool, Wildcat
	2485' FNL, 2445' FWL	Basin Dakota
		11. Sec., Twn, Rge, Mer. (NMPM)
	Latitude 36° 35.3 , Longitude 107° 23.0	Sec. 8, T-27-N, R-5-
		API# 30-039- 26614
14.	Distance in Miles from Nearest Town	12. County 13. State
	8 miles from Gobernador	Rio Arriba NM
15.	Distance from Proposed Location to Nearest Property or Lease	Line
	2445'	
	Ţ```.	17 Acros Assigned to Well
16.	Acres in Lease	17. Acres Assigned to Well 320 W/2
16.		320 W/2
	Distance from Proposed Location to Nearest Well, Drig, Compl,	320 W/2
18.	Distance from Proposed Location to Nearest Well, Drlg, Compl,	, or Applied for on this Lease
16. 18. 19.	Distance from Proposed Location to Nearest Well, Drig, Compl, 1100' Proposed Depth	or Applied for on this Lease Rotary or Cable Tools
18.	Distance from Proposed Location to Nearest Well, Drlg, Compl,	or Applied for on this Lease 20. Rotary or Cable Tools Rotary
18. 19.	Distance from Proposed Location to Nearest Well, Drig, Compl, 1100' Proposed Depth 7829' Elevations (DF, FT, GR, Etc.)	or Applied for on this Lease Rotary or Cable Tools
18. 19.	Distance from Proposed Location to Nearest Well, Drig, Compl, 1100' Proposed Depth 7829' and Appendix Assessment in 43 CFR \$185.4	or Applied for on this Lease 20. Rotary or Cable Tools Rotary
18. 19.	Distance from Proposed Location to Nearest Well, Drig, Compl, 1100' Proposed Depth 7829' Elevations (DF, FT, GR, Etc.) 6599' GR Proposed Casing and Cementing Program	or Applied for on this Lease 20. Rotary or Cable Tools Rotary 22. Approx. Date Work will Start
18. 19. 21.	Distance from Proposed Location to Nearest Well, Drig, Compl, 1100' Proposed Depth 7829' Elevations (DF, FT, GR, Etc.) 6599' GR	or Applied for on this Lease 20. Rotary or Cable Tools Rotary
18. 19. 21.	Distance from Proposed Location to Nearest Well, Drig, Compl, 1100' Proposed Depth 7829' Elevations (DF, FT, GR, Etc.) 6599' GR Proposed Casing and Cementing Program	320 W/2 or Applied for on this Lease 20. Rotary or Cable Tools Rotary 22. Approx. Date Work will Start
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18. 19. 21. 23.	Distance from Proposed Location to Nearest Well, Drig, Compl. 1100' Proposed Depth 7829' Elevations (DF, FT, GR, Etc.) 6599' GR Proposed Casing and Cementing Program See Operations Plan attached	320 W/2 or Applied for on this Lease 20. Rotary or Cable Tools Rotary 22. Approx. Date Work will Start
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18. 19. 21. 23.	Distance from Proposed Location to Nearest Well, Drlg, Compl, 1100' Proposed Depth 7829' Elevations (DF, FT, GR, Etc.) 6599' GR Proposed Casing and Cementing Program See Operations Plan attached	or Applied for on this Lease Rotary or Cable Tools Rotary 22. Approx. Date Work will Start OPELIES SUBJECT TO ENERGY

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

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised February 21, 1994 Instructions on back

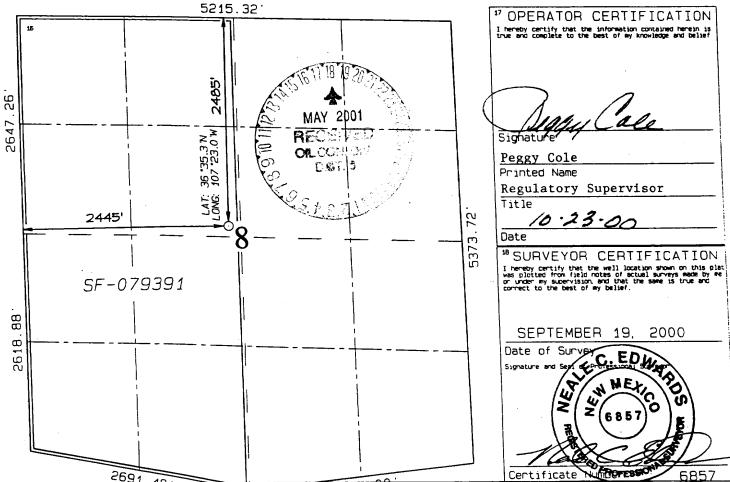
District II PO Drawer DD, Artesia, NM 88211-0719

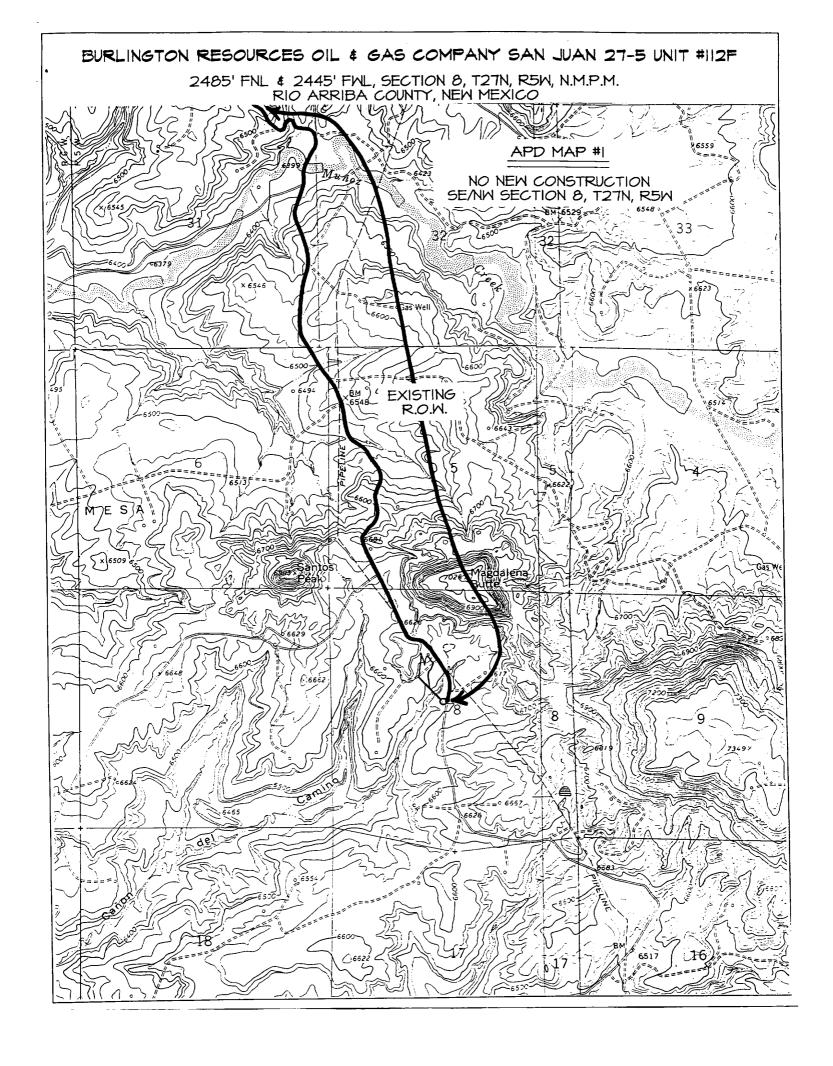
Submit to Appropriate District Office
OIL CONSERVATION DIVISION 150 -6 31 2Fee Dease - 3 Copies PO Box 2088
Santa Fe, NM 87504-2088

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

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

			WELL	LOCATI	ON AND A	CREAGE DEDI	CATION PL	ТА	
'API Number				Pool Code	е	'Pool Name			
30-039-266/4		14	7159	9	Bas	in Dakota		•	
*Property Code		³Property Name					- Wi	Well Number	
7454		SAN JUAN 27-5 UNIT						112F	
OGRID N	lo.				*Operato	r Name		"	levation
14538			BURLINGTON RESOURCES OIL & GAS COMPANY					6599	
					¹⁰ Surface	Location			
UL or lot no.	Section	Township	Aange	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County RIO
F	8	27N	5W		2485	NORTH	2445	WEST	ARRIBA
		11 8	ottom	Hole L	ocation]		From Surf	ace	
UL or lot no.	Section	Township	Range	Lot Ion	Feet from the	North/South line	Feet from the	East/West line	County
				l					
12 Dedicated Acres	<u> </u>	¹³ Joint or In	fill 34 Co	nsolidation Code	²⁵ Order No.				
DK-W/320 R-11503									
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									
5245 32'									
OPERATOR CERTIFICATI					1				
15					1		i hereby cer true and com	tify that the informat uplete to the best of a	ly knowledge and belief
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OPERATIONS PLAN

Well Name: San Juan 27-5 Unit #112F

2485'FNL, 2445'FWL, Sec 8, T-27-N, R-5-W Location:

Rio Arriba County, NM Latitude 36° 35.3, Longitude 107° 23.0

Basin Dakota Formation: 6599' GL Elevation:

Formation Tops:	Top	Bottom	Contents
Surface	San Jose	2718'	
Ojo Alamo	2718'	2913 '	aquifer
Kirtland	2913 '	2987 ′	gas
Fruitland	2987 '	3383'	gas
Pictured Cliffs	3383 '	3483'	gas
Lewis	3483'	3916'	gas
Intermediate TD	3583'		
Mesa Verde	3916 ′	4355 '	gas
Chacra	4355 '	5059 ′	gas
Massive Cliff House	5059'	5238'	gas
Menefee	5238'	5555 ′	gas
Massive Point Lookout	5555'	6061'	gas
Mancos	6061 ′	6951 ′	gas
Gallup	6951 ′	7501 ′	gas
Greenhorn	7501 '	7582'	gas
Dakota	7582 '		gas
TD	7829'		

Logging Program:

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

Mud Program:

Interval	Type	Weight	<u>Vis.</u>	Flui	ld Loss
0- 200'	Spud	8.4-9.0	40-50	no	control
200- 3583'	LSND	8.4-9.0	30-60	no	control
3583- 7829'	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):

Hole Size	Depth Interval	Csg.Size	Wt.	Grade
12 1/4"	0' - 200'	9 5/8"	32.3#	WC-50
8 3/4"	0' - 3583'	7"	20.0#	J - 55
6 1/4"	3483' - 7829'	4 1/2"	10.5#	K-55

Tubing Program:

0' - 7829' 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/326 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 (1078 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 2887'. First stage: cement with w/164 sx 50/50 Class "G" poz w/2% calcium chloride, 2% gel, 5 pps gilsonite, 0.25 pps Flocele. Second stage: 294 sx Class "G" with 3% sodium metasilicate, 2% calcium chloride, 10 pps Gilsonite, 0.5 pps Flocele (1078 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 (625 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 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 west half of Section 8 is dedicated to the Dakota in this well.

This gas is dedicated.

Driffing Engineer

10/24/00 Date