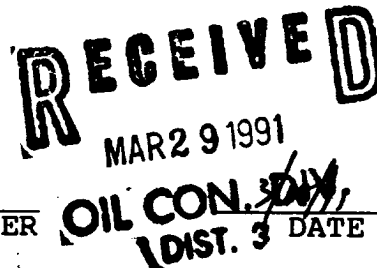


UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

1. TYPE OF WELL GAS		5. LEASE NUMBER SF-078424	
2. OPERATOR <i>El Paso</i> <del>EL PASO NATURAL GAS CO.</del>		6. IF INDIAN, ALL. OR TRIBE NAME	
3. ADDRESS & PHONE NO. OF OPERATOR P O BOX 4289 FARMINGTON, NM 87499		7. UNIT AGREEMENT NAME SAN JUAN 29-7 UNIT	
4. LOCATION OF WELL 2510'FSL 790'FWL L		8. FARM OR LEASE NAME SAN JUAN 29-7 UNIT	
		9. WELL NO. 563	
		10. FIELD, POOL, OR WILDCAT BASIN FRUITLAND COAL	
		11. SEC. T. R. M OR BLK. SEC. 24 T29N R07W NMPM	
14. PERMIT NO.	15. ELEVATIONS 6231'GL	12. COUNTY RIO ARRIBA	13. STATE NM
16. OTHER:			

Changing production casing from 5 1/2" liner to 4 1/2" cemented liner as shown in operations plan (attached).



18. AUTHORIZED BY: *[Signature]*  
REGIONAL DRILLING ENGINEER

NOTE: THIS FORMAT IS ISSUED IN LIEU OF US BLM FORM 3160-5.

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(This space for Federal or State office use)

APPROVED BY  
CONDITION OF APPROVAL, IF ANY:

TITLE

DATE APPROVED

MAR 19 1991

Ken Townsend  
AREA MANAGER

FOR

01371523  
JAN 2 1967  
U.S. AIR FORCE  
HONOLULU, HAWAII

Well Name: 563 SAN JUAN 29-7 UNIT  
 Sec. 24 T29N R07W  
 BASIN FRUITLAND COAL

2510' FSL 790' FWL  
 RIO ARRIBA NEW MEXICO  
 Elevation 6231' GL

Formation tops: Surface- SAN JOSE

Ojo Alamo- 2185

Kirtland- 2314

Fruitland- 2793

Fruitland Coal Top- 2887

Fruitland Coal Base- 3062

Pictured Cliffs- 3062

Intermediate TD- 2865

Total Depth- 3099

Logging Program: Mud logs from intermediate to total depth.

Mud Program:	Interval	Type	Weight	Visc.	Fl. Loss
	0 - 200	Spud	8.4 - 8.9	40-50	no control
	200 - 2865	Non-dispersed	8.4 - 9.1	30-60	no control
	2865 - 3099	Formation Water	8.4		no control

Casing Program:	Hole Size	Depth Interval	Csg. Size	Weight	Grade
	12 1/4"	0 - 200	9 5/8"	32.3#	H-40
	8 3/4"	0 - 2865	7"	20.0#	K-55
	6 1/4"	2700 - 3099	4 1/2"	15.5#	K-55
Tubing Program:		0 - 3099	2 7/8"	6.5#	J-55

Float Equipment: 9 5/8" surface casing - saw tooth guide shoe. Centralizers will be run in accordance with Onshore Order #2.

7" intermediate casing - guide shoe and self-fill insert float valve. Three centralizers run every other joint above shoe. Run insert float one joint above the guide shoe. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 2314'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

4 1/2" production casing - float shoe on bottom and a pre-drilled liner run to the 7" casing with a minimum 50' overlap. Liner hanger is a double slip grip type.

Wellhead Equipment: 9 5/8" x 7" x 2 7/8" x 11" 3000 psi xmas tree assembly.

#### Cementing:

9 5/8" surface casing - cement with 160 sacks of class "B" cement with 1/4# flocele/sack and 3% calcium chloride (189 cu ft. of slurry, 200% excess to circulate to surface). WOC 12 hours. Test casing to 600 psi for 30 minutes.

7" intermediate casing - lead with 412 sacks of 65/35 class "B" poz with 6% gel, 2% calcium chloride and 1/2 cu ft. Perlite/sack (10.3 gallons of 914 cu ft. of slurry, 110% excess to circ. to surface. If hole conditions permit, a 600 ft spacer will be run ahead of the cement slurry to avoid mud contamination of the cement. WOC 12 hours. If cement does not circ. to surface, a temperature log will be run after 8 hours to determine TOC.

4 1/2" production casing - Lead with 25 sacks 65/35 Class B poz with 6% gel, 2% CaCl<sub>2</sub>, and 1/4# Flocele/sack, (43 cu ft.). Follow with 50 sacks Class B neat, (103 cu ft. total slurry).

**BOP and Tests:**

Surface to intermediate TD - 11" 2000 psi(minimum) double gate BOP stack (Reference Figure #1). Prior to drilling out surface casing, test rams to 600 psi for 30 minutes.

Intermediate TD to TD - 7 1/16" 2000 psi(minimum) double gate BOP stack (Reference Figure #2). Prior to drilling out intermediate casing, test blind rams and casing to 2500 psi for 30 minutes; all pipe rams and casing to 2500 psi for 30 minutes each.

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.
- \* Anticipated Fruitland pore pressure is 1038 psi.
- \* This gas is dedicated.
- \* The W/2 of Section 24 is dedicated to this well.
- \* New casing will be utilized.
- \* Cementing Contractor will provide the BLM with a chronological log including the pump rate and pressure, and the slurry density and volume for all cement jobs.
- \* Pipe movement (either rotation or reciprocation) will be done if hole conditions permit.