

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-080712A	
2. OPERATOR EL PASO NATURAL GAS CO.		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 30-6 UNIT	
4. LOCATION OF WELL 1820'S 1430'W		8. FARM OR LEASE NAME SAN JUAN 30-6 UNIT	
		9. WELL NO. 471	
		10. FIELD, POOL, OR WILDCAT BASIN FRUITLAND COAL	
		11. SEC. T. R. M OR BLK. SEC. 21 T30N R06W NMPM	
14. PERMIT NO.	15. ELEVATIONS 6330'GL	12. COUNTY RIO ARRIBA	13. STATE NM
16. NOTICE OF INTENTION TO: Change Plans			
17. Describe proposed or completed operations			

Attached is a revised operations plan, BOPE diagram and anticipated production facilities diagram on the subject well.

18. AUTHORIZED BY:

*[Signature]*  
REGULATORY AFFAIRS

9/9/89  
DATE

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

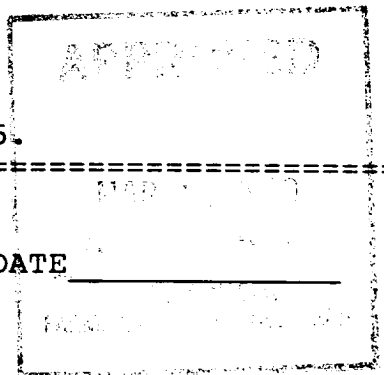
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(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITION OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_

DATE \_\_\_\_\_



PMOCH

Well Name: 471 SAN JUAN 30-6 UNIT 1820'S 1430'W  
Sec. 21 T30N R06W RIO ARriba NEW MEXICO  
BASIN FRUITLAND COAL Elevation 6330'GL

Formation tops: Surface- SAN JOSE

Ojo Alamo - 2380

Kirtland- 2493

Fruitland- 2945

Fruitland Coal Top- 2990

FRUITLAND Coal Base- 3252  
 Incorporated 1940 ID- 3070

Inter Mediate ID= 2970  
Total Douth= 3354

Total Debit	3234
Dictated	3263

COZC - 5111230301

Logging Program: Mud logs from intermediate to total depth.

Mud Program:	Interval	Type	Weight	Visc.	F. Loss
	0 - 200	Spud	8.4 - 8.9	40-50	no control
	200 - 2970	Non-dispersed	8.4 - 9.1	30-60	no control
	2970 - 3254	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 -	2970	7"	20.0#	K-55
	6 1/4"	2920 -	3254	5 1/2"	15.5#	K-55
Tubing Program:		0 -	3254	2 7/8"	6.5#	J-55

Float Equipment: 9 5/8" surface casting - saw tooth guide shoe

7" intermediate casing - guide shoe and self-fill insert float valve. Three centralizers run every other joint above shoe. Run insert float at one joint above the guide shoe.

5 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 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 106 sacks of class "B" cement with 1/4# of flocculent/sack and 3% calcium chloride (125 cu ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing to 600 psi for 30 minutes.

7" intermediate casing - lead with 31 sacks of 65/35 class "B" poz with 6% gel, 2% calcium chloride and 1/2 cu ft. Perlite/sack (10.3 gallons of water/sack) tail with 100 sacks of class "B" with 2% calcium chloride. 177 cu ft. of slurry. 100% excess to cover the Ojo Alamo. Run temperature survey at 8 hours. WOC 12 hours. Test casing to 1500 psi or 30 minutes.

5 1/2" liner - do not cement.

## 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 rams to 1500 psi(minimum) for 30 minutes.

From surface to TD - choke manifold (Reference Figure #3).

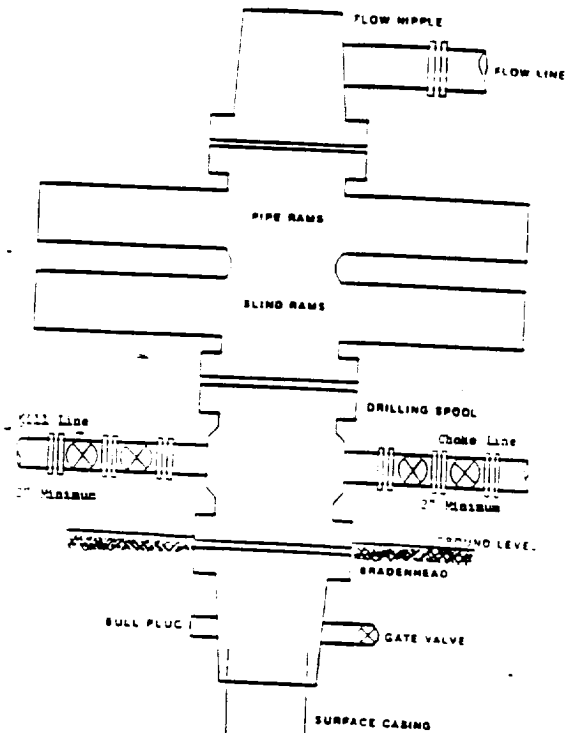
Pipe rams will be actuated at least once each day and blind rams actuated once each trip to test proper functioning. A kelly cock valve and drill string safety valves to fit each drill string will be maintained and available on the rig floor.

## Addition Information:

The Fruitland coal formation will be completed.  
This gas is dedicated.  
The W/2 of Section 21 is dedicated to this well.

TOP SET FRUITLAND COAL

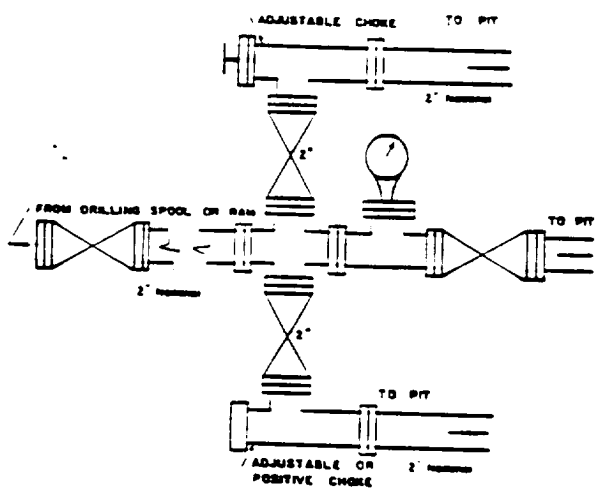
FIGURE #1



Minimum BOPE installation for a typical Fruitland Coal well from surface to intermediate TD. 2", 2000 psi working pressure double gate SOP equipped with blind and pipe rams.

TOP SET FRUITLAND COAL

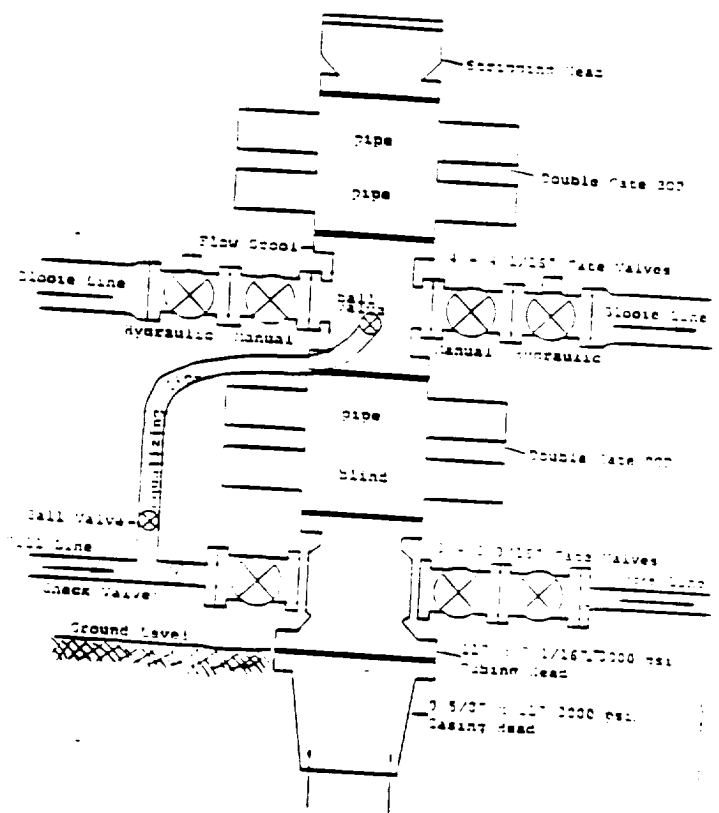
FIGURE #2



Minimum choke manifold configuration for a typical Fruitland Coal well from surface to TD. 2", 2000 psi working pressure equipment with two chokes.

TOP SET FRUITLAND COAL

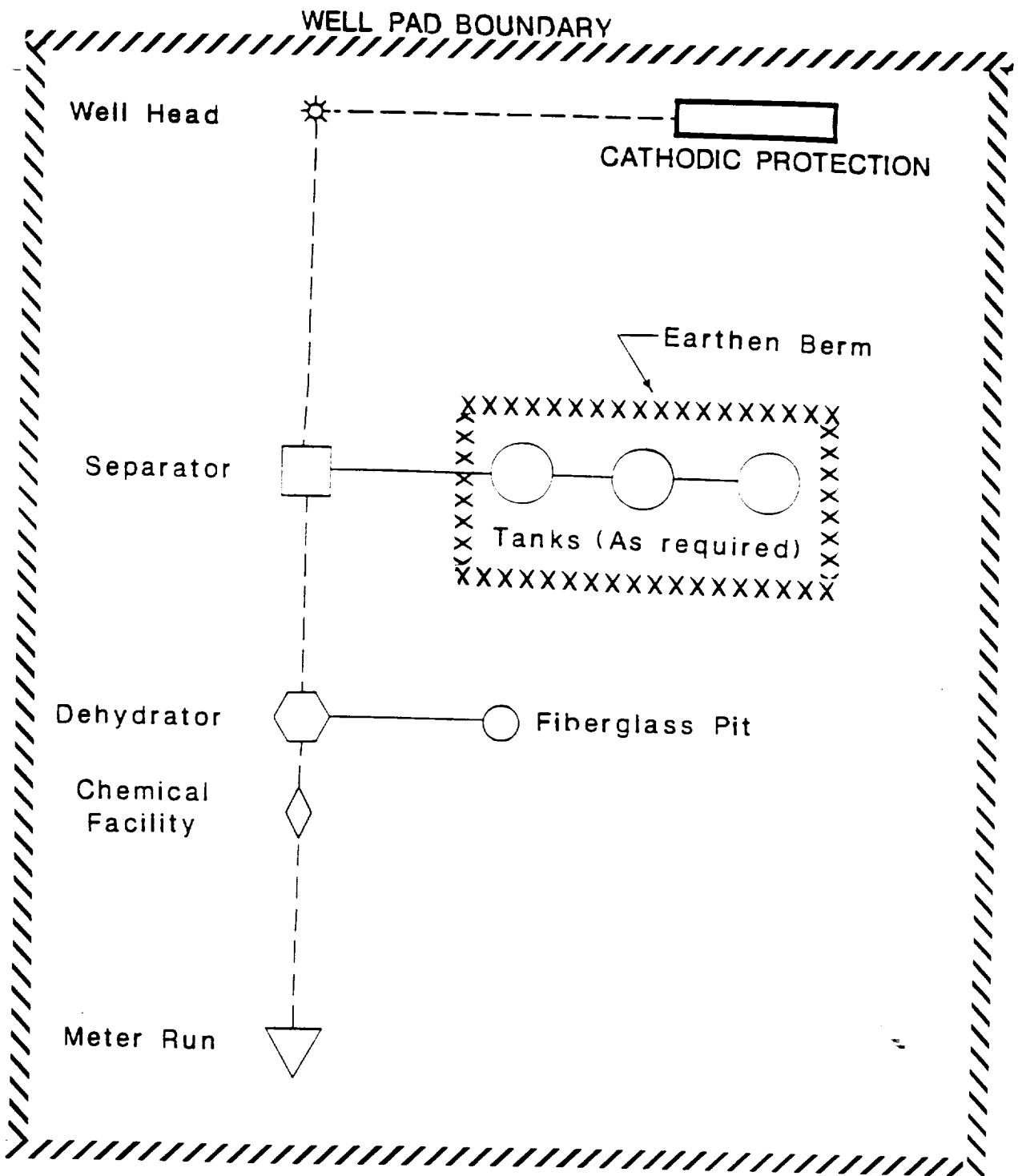
FIGURE #3



Minimum BOPE installation for a typical Fruitland Coal well from intermediate TD to TD. 6", 2000 psi working pressure double stack double gate SOP equipped with three blind and one blind ram.

TOP SET FRUITLAND  
COAL WELL BOPE.

UPDATED  
9/8/89



**MERIDIAN OIL**

ANTICIPATED  
PRODUCTION FACILITIES  
FOR A  
FRUITLAND WELL

J. Falconi

4/28/89