

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-077651	
2. OPERATOR SOUTHLAND ROYALTY 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	
4. LOCATION OF WELL 1070'N 1355'E		8. FARM OR LEASE NAME RICHARDSON	
		9. WELL NO. 100	
		10. FIELD, POOL, OR WILDCAT BASIN FRUITLAND COAL	
		11. SEC. T. R. M OR BLK. SEC. 15 T31N R12W NMPM	
14. PERMIT NO.	15. ELEVATIONS 6225'GL	12. COUNTY SAN JUAN	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.

RECEIVED

APR 03 1990

OIL CON. DIV.
DIST. 3

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 _____ TITLE _____
CONDITION OF APPROVAL, IF ANY: _____

APPROVED
MAR 30 1990
DATE
AREA MANAGER FARMINGTON RESOURCE AREA

[illegible]

Well Name: 100 RICHARDSON 1070' N 1355' E
 Sec. 15 T31N R12W SAN JUAN NEW MEXICO
 BASIN FRUITLAND COAL Elevation 6225' GL

Formation tops: Surface- NACIMIENTO

Ojo Alamo- 1000
 Kirtland- 1027
 Fruitland- 2291
 Fruitland Coal Top- 2437
 Fruitland Coal Base- 2674
 Total Depth- 2680
 Pictured Cliffs- 2689

Logging Program: Mud logs from 2291 to total depth.

Mud Program:	Interval	Type	Spud	Weight	Visc.	Fl. Loss
	0 - 200			8.4 - 8.9	40-50	no control
	200 - 2680	Non-dispersed		8.4 - 9.5	30-60	no control

Casing Program:	Hole Size	Depth	Interval	Csg. Size	Weight	Grade
	12 1/4"	0 - 200		8 5/8"	24.0#	K-40
	7 7/8"	0 - 2680		5 1/2"	15.5#	K-55
		0 - 2680		2 3/8"	4.7#	J-55

Float Equipment: 8 5/8" surface casing - saw tooth guide shoe.

5 1/2" production casing - float shoe on bottom.
 Three centralizers run every other joint above shoe.

Wellhead Equipment: 8 5/8" x 5 1/2" x 2 3/8" x 11" 3000 psi xmas tree assembly.

Cementing:
 8 5/8" surface casing - cement with 140 sacks of class "B" cement with 1/4# floccle/sack and 3% calcium chloride (165 cu ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing to 600 psi for 30 minutes.

5 1/2" production casing - lead with 241 sacks of 65/35 class "B" poz with 6% gel, 2% calcium chloride and 1/2 cu.ft. per lte/sack (10.3 gallons of water/sack) tail with 100 sacks of class "B" with 2% calcium chloride. 582 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 for 30 minutes.

BOP and Tests:

Surface to TD - 11" 2000 psi(minimum) double gate BOP stack

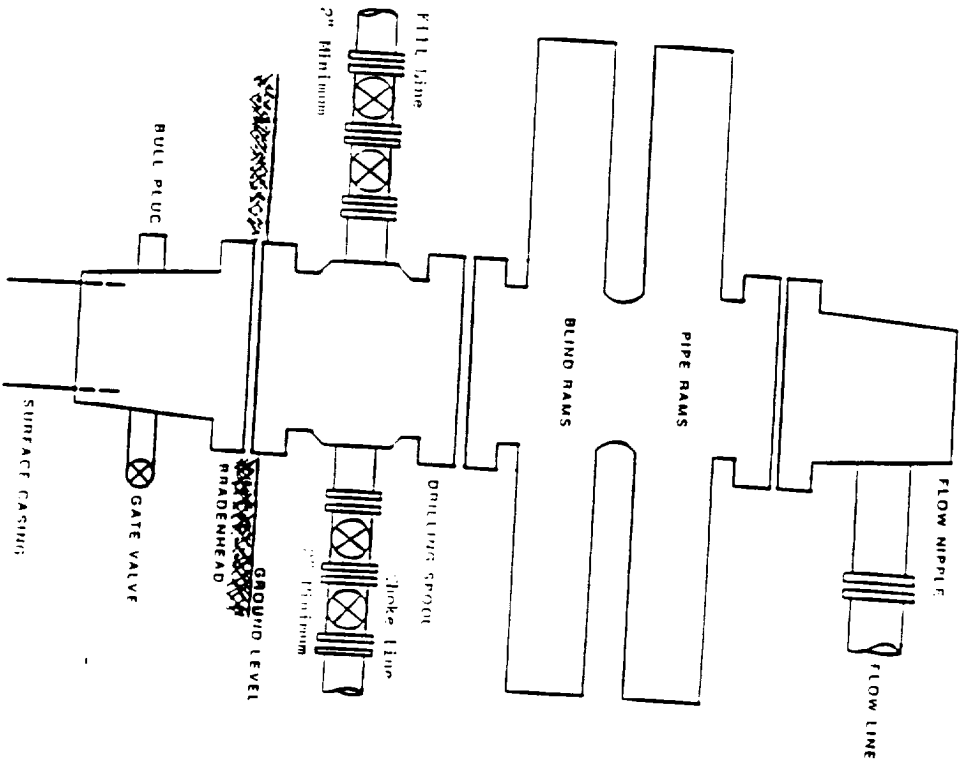
From surface to TD - choke manifold (Reference Figure #3).

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:

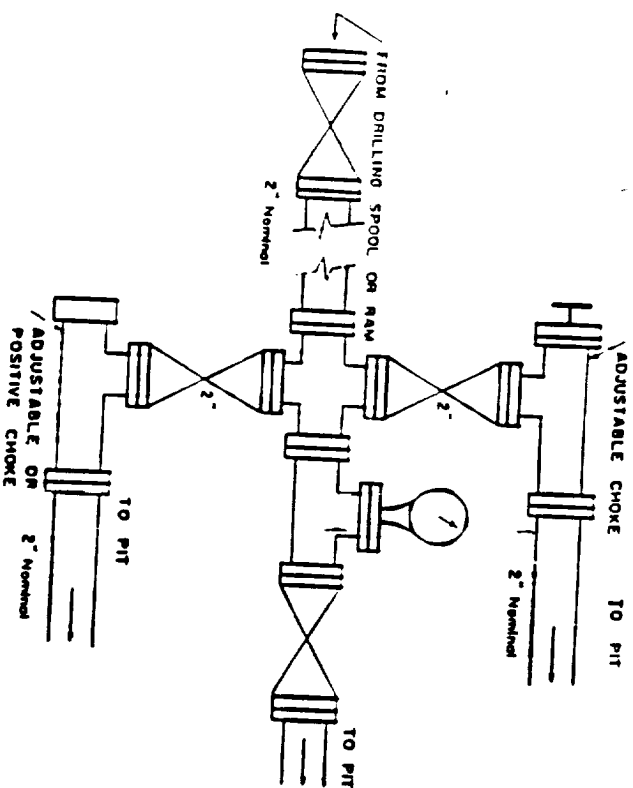
The Fruitland coal formation will be completed.
This gas is dedicated.
The E/2 of Section 15 is dedicated to this well.

FIGURE #1



Minimum POE Installation for a typical Fruitland Coal well from surface to Total Depth, 11", 2000 psi working pressure double gate ROT equipped with blind and pipe rams.

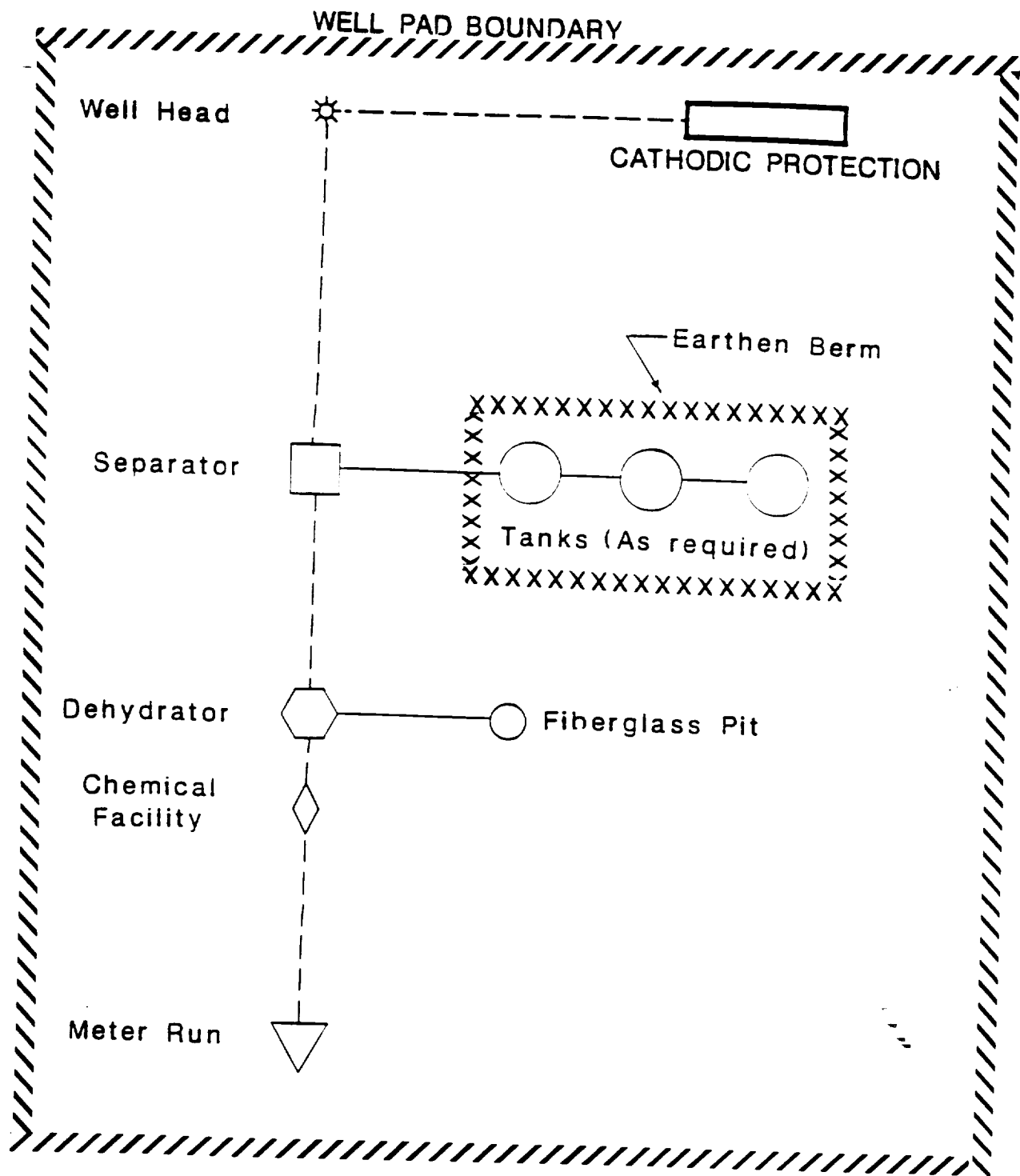
FIGURE #3



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

LONG STRING FCW BOP

UP0420 9/8/89



MERIDIAN OIL

ANTICIPATED
PRODUCTION FACILITIES
FOR A
FRUITLAND WELL

J. Falconi

4/28/89