

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 1870'N 1300'E		8. FARM OR LEASE NAME RICHARDSON
		9. WELL NO. 101
		10. FIELD, POOL, OR WILDCAT BASIN FRUITLAND COAL
		11. SEC. T. R. M OR BLK. SEC. 10 T31N R12W NMPM
14. PERMIT NO.	15. ELEVATIONS 6173'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 _____
CONDITION OF APPROVAL, IF ANY:

TITLE _____

APPROVED
MAR 30 1990
Ken Townsend
DATE
FOR AREA MANAGER
FARMINGTON DISTRICT OFFICE

Well Name: 101 RICHARDSON 1870'N 1300'E
 Sec. 10 T31N R12W SAN JUAN NEW MEXICO
 BASIN FRUITLAND COAL Elevation 6173'GL

Formation tops: Surface- NACIMIENTO

Ojo Alamo- 893
 Kirtland- 913
 Fruitland- 2195
 Fruitland Coal Top- 2423
 Fruitland Coal Base- 2562
 Total Depth- 2567
 Pictured Cliffs- 2572

Logging Program: Mud logs from 2195 to total depth.

Mud Program:	Interval	Type	Spud	Weight	Visc.	F1. Loss
	0 - 200			8.4 - 8.9	40-50	no control
	200 - 2567	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 - 2567		5 1/2"	15.5#	K-55
Tubing Program:		0 - 2567		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 239 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. 580 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

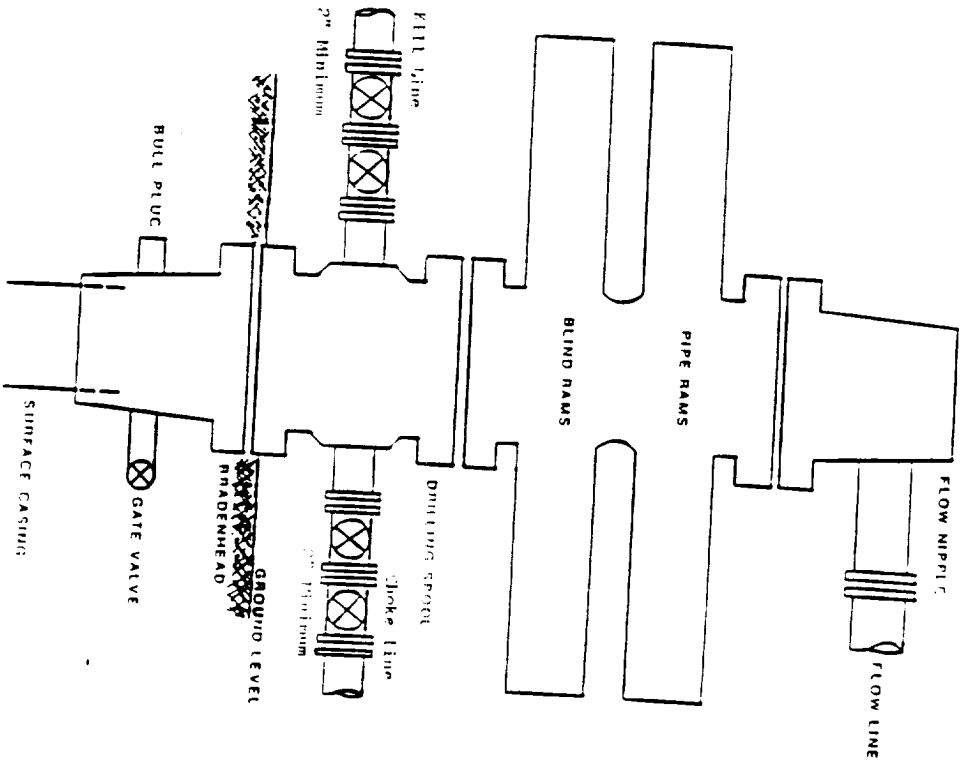
From surface to TD - choke manifold (Reference Figure #3).

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:

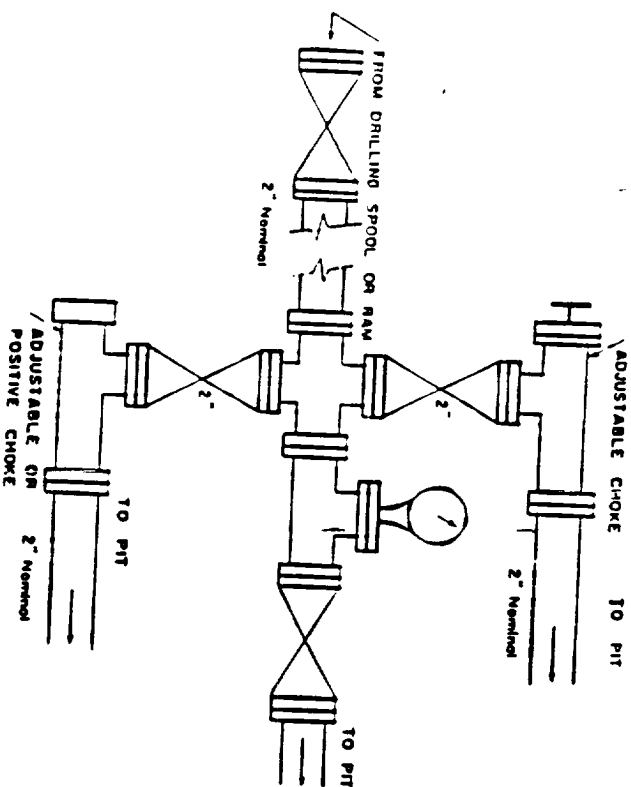
The Fruitland coal formation will be completed.
This gas is dedicated.
The E/2 of Section 10 is dedicated to this well.

FIGURE #1



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

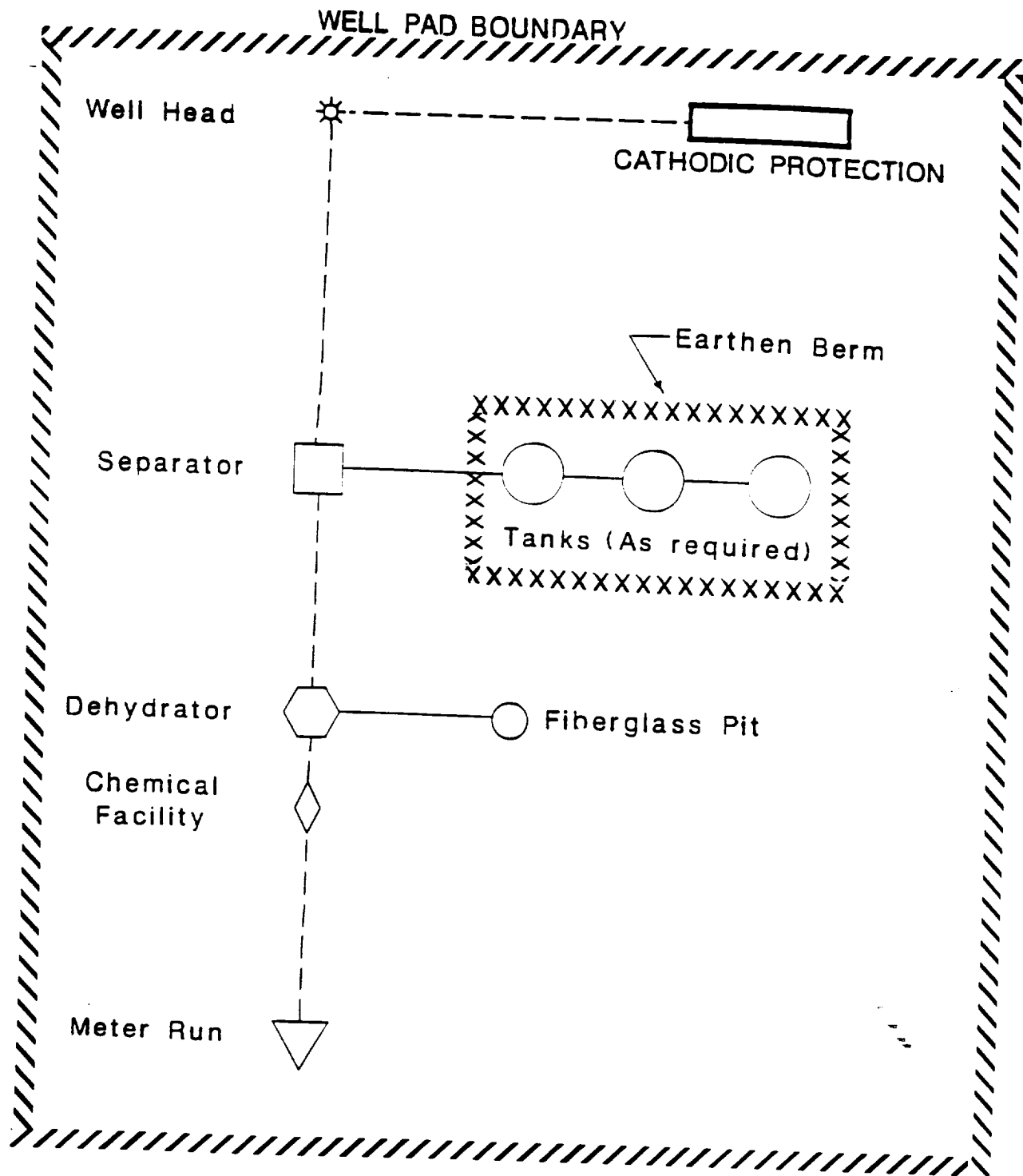
FIGURE #3



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

LONG STRAIN FCCU BOP

UP04210 9/8/81



MERIDIAN OIL

ANTICIPATED
PRODUCTION FACILITIES
FOR A
FRUITLAND WELL

J. Falconi

4/28/89