

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-077874
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 1460'S 855'W	8. FARM OR LEASE NAME HANKS
	9. WELL NO. 230
	10. FIELD, POOL, OR WILDCAT BASIN FRUITLAND COAL
	11. SEC. T. R. M OR BLK. SEC. 7 T27N R09W NMPM
14. PERMIT NO.	15. ELEVATIONS 6190'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

MAR 23 1990

OIL CON. DIV.  
DIST. 3

18. AUTHORIZED BY:

Boyle  
REGULATORY AFFAIRS

9/9/89  
DATE

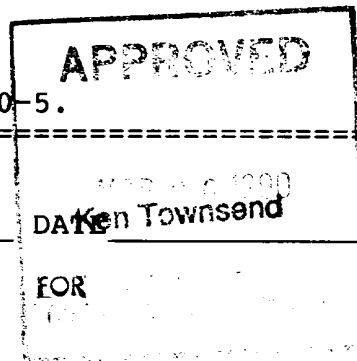
NOTE: THIS FORMAT IS ISSUED IN LIEU OF US BLM FORM 3160-5.

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(This space for Federal or State office use)

APPROVED BY

TITLE

CONDITION OF APPROVAL, IF ANY:



Well Name: 230 HANKS 1460'S 855'W  
 Sec. 7 T27N R09W SAN JUAN NEW MEXICO  
 BASIN FRUITLAND COAL Elevation 6190'GL

Formation tops: Surface- NACIMIENTO  
 Ojo Alamo- 1168  
 Kirtland- 1310  
 Fruitland- 1855  
 Fruitland Coal Top- 1988  
 Fruitland Coal Base- 2102  
 Intermediate TD- 1968  
 Total Depth- 2104  
 Pictured Cliffs- 2106

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 - 1968	Non-dispersed	8.4 - 9.1	30-60	no control
	1968 - 2104	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 - 1968	7"	20.0#	K-55
	6 1/4"	1918 - 2104	5 1/2"	15.5#	K-55
Tubing Program:		0 - 2104	2 7/8"	6.5#	J-55

Float Equipment: 9 5/8" surface casing - 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 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 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 106 sacks of class "B" cement with 1/4# flocele/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 63 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. 240 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.

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).

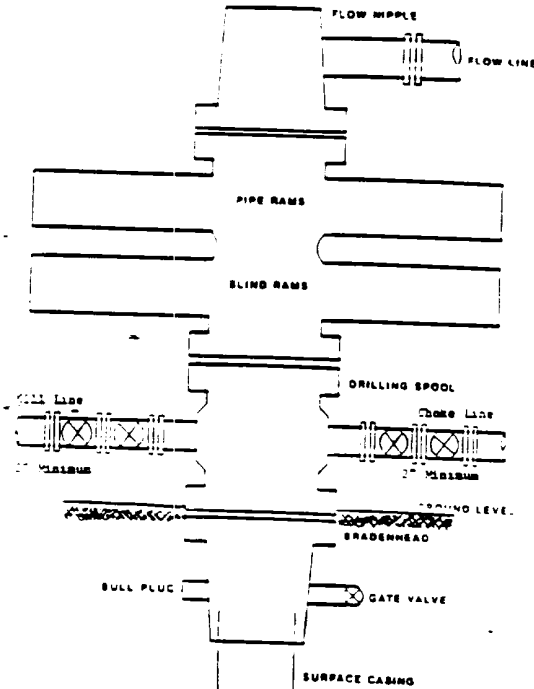
Pipe rams will be actuated at least once each day and blind rams actuated once each trip to test proper functioning. A kelly cock valve and drill string safety valves to fit each drill string will be maintained and available on the rig floor.

**Addition Information:**

The Fruitland coal formation will be completed.  
This gas is dedicated.  
The W/2 of Section 7 is dedicated to this well.

TOP SET FRUITLAND COAL

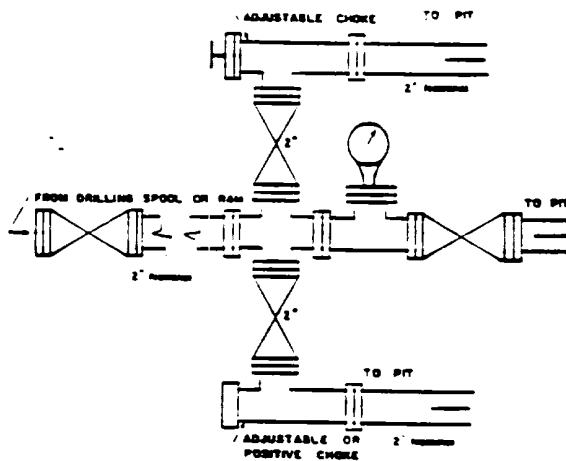
FIGURE #1



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

TOP SET FRUITLAND COAL

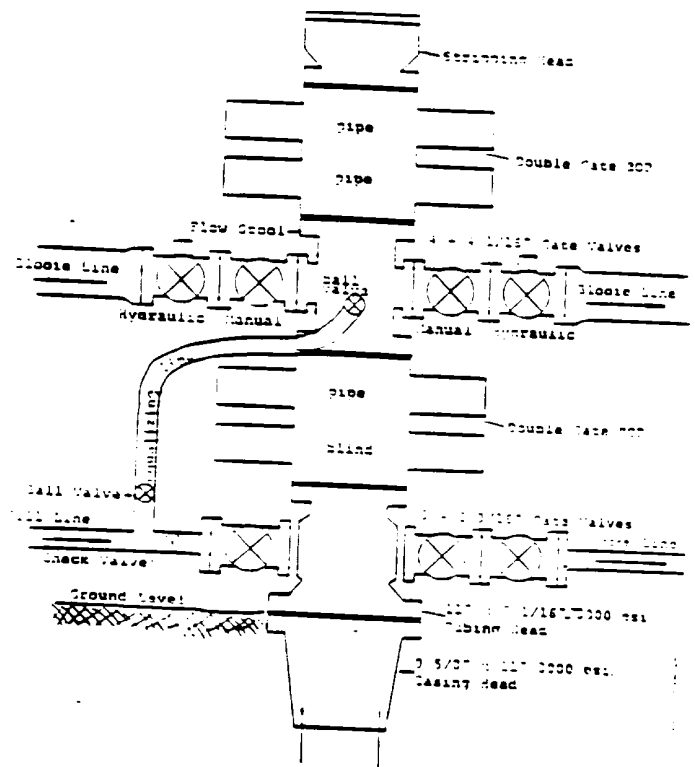
FIGURE #2



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

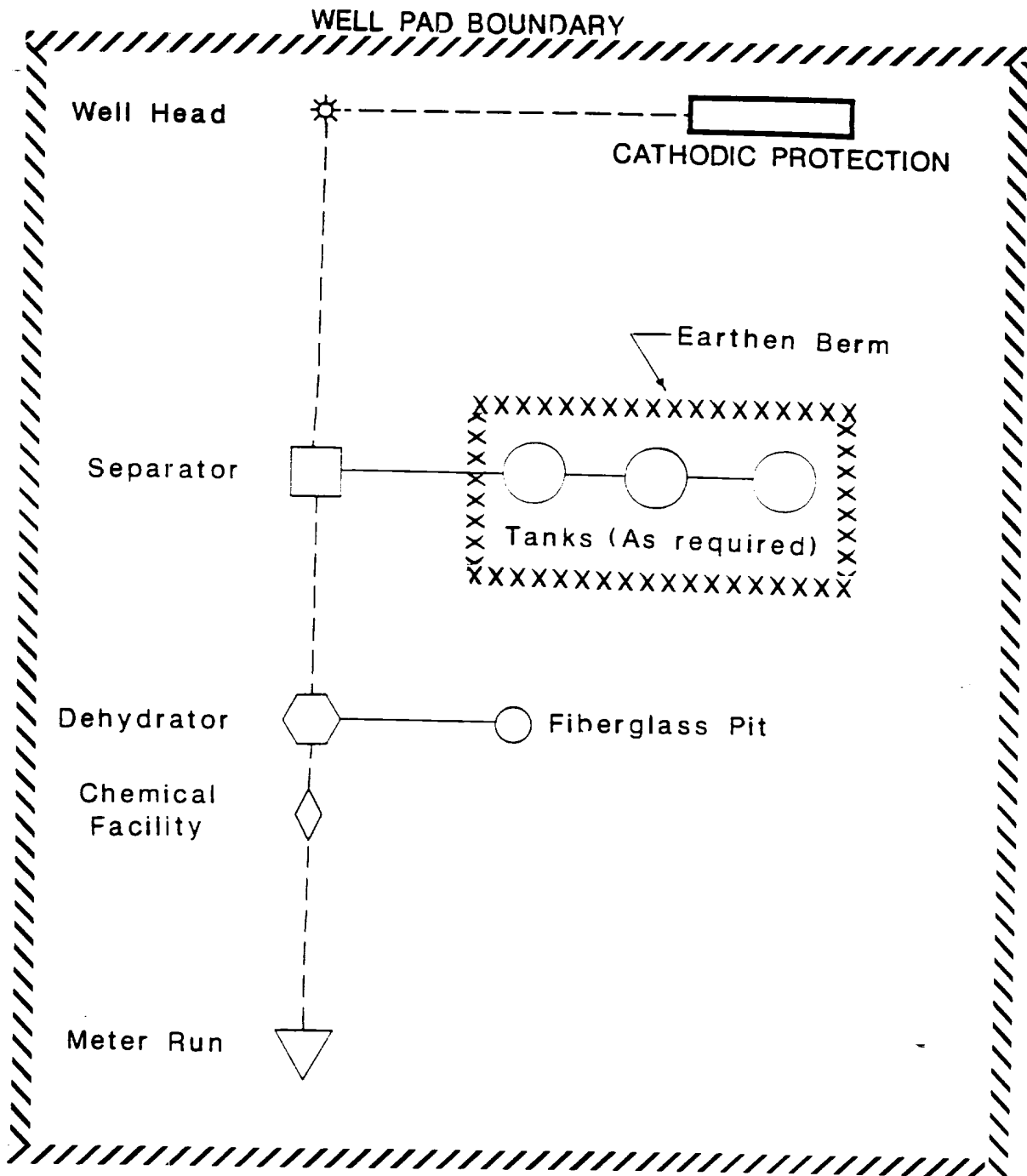
FIGURE #2



Minimum BOPE installation for a typical Fruitland Coal well from intermediate TD to TD. 6", 2000 psi working pressure double stack double gate BOP equipped with three pipe 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