# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS  5. LEASE NUMBER	
1. TYPE OF WELL GAS  6. IF INDIAN, ALL. OR TRIBE NAM	Ξ
2. OPERATOR MERIDIAN OIL INC. 7. UNIT AGREEMENT NAME	
3. ADDRESS & PHONE NO. OF OPERATOR P O BOX 4289 FARMINGTON, NM 87499  8. FARM OR LEASE NAME NORDHAUS 9. WELL NO. 711	
4. LOCATION OF WELL 1270'FSL 1500'FWL  BASIN FRUITLAND COAL 11. SEC. T. R. M OR BLK. SEC. 1 T31N R09W NMPM	
14. PERMIT NO. 15. ELEVATIONS 12. COUNTY 13. STATE 6617'GL SAN JUAN NM	-
16. SUBSEQUENT REPORT OF: Amended Application for Permit to Drill 17. Describe proposed or completed operations	
Reference is made to <u>Union Texas Petroleum's</u> Application for Permit to Drill the <u>Nordhaus 1 #2 approved 02-28-90</u> .  Meridian Oil Inc. will operate and drill this well as the Nordhaus #711 at 1270'FSL and 1500'FWL of Section 1 of Township T31N and Range R09W.	
Submitted for review:  - C102 - Operations Plan - BOP Diagrams - Location Laydown - Cut and Fill Diagram - Facilities Diagram - Tacilities Diagram  DECEIVE  AUGI 3 1990  OIL CON. DIV. DIST. 3	
18. AUTHORIZED BY: REGULATORY AFFAIRS AV DATE	
NOTE: THIS FORMAT IS ISSUED IN LIEU OF US BLM FORM 3160-5.	
(This space for Federal or State office use)  APPROVED BY CONDITION OF APPROVAL, IF ANY:	

NMOOD,

# State of New Mexico Energy, Minerais and Natural Resources Department

Form C-102 Revised 1-1-89

DISTRICT I P.O. Box 1980, Hobbs, NM 88240 OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe. New Mexico 87504-2088

ola (2)

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III WELL LOCATION AND ACREAGE DEDICATION PLAT 1000 Rio Brazos Rd., Aziec, NM 87410 All Distances must be from the outer boundaries of the section DEFENDE Meridian Oil Inc. Mordhaus 711 (SF-078508) Jan Later Section TOWNS Rene County 31 North 9 West San Juan **NMPM** Actual Footage Location of Well: South 1500 West feet from the line and feet from the Ground level Elev. Producing Formation Pool Dedicated Acreege: 6617' Fruitland Coal Basin 315.29 Acres 1. Outline the acronge dedicated to the subject well by colored pencil or hackure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization. ENTERNANCE FORCE PRODUME, etc. ? Yes No If answer is "yes" type of consolidation I surver is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse nos of this form if neconstary. No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division. OPERATOR CERTIFICATION I hereby certify that the informati Peggy Bradfield Printed Name Regulatory Affairs **Positios** Соправу AUG1 3 1990 OIL CON. DIV. SURVEYOR CERTIFICATION I hereby certify that the well location show on this plat was plotted from field notes actual surveys made by me or under i supervison, and that the same is true a correct to the best of my knowledge a 6-20-90 belief. 1500 685 Neal

1000

2000

1500

500

1980 2310 2640

999 1339 1650

110 (20)

DATE: JUL 2,1990

Well Name: 711 NORDHAUS

Sec. 1 T31N R09W

1270'FSL 1500'FWL SAN JUAN NEW MEXICO

BASIN FRUITLAND COAL

Elevation 6617'GL

Formation tops: Surface- SAN JOSE

Ojo Alamo- 2146 Kirtland- 2212

Fruitland- 3050

Fruitland Coal Top- 3125 Intermediate TD- 3105 Fruitland Coal Base- 3451 Total Depth- 3453

Pictured Cliffs- 3455

Logging Program: Mud logs from intermediate to total depth.

Mud Program:	Interval 0 - 350 350 - 3105 3105 - 3453	Type Spud Non-dispersed Formation Water		Visc. 40-50 30-60	F1. Loss no control no control no control
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Casing Program:	Hole Size 12 1/4" 8 3/4"	0 -	350 3105	Csg. Size 9 5/8" 7"	Weight 32.3# 20.0#	Grade H-40 K-55
Tubing Program:	6 1/4"	3055 <b>-</b> 0 <b>-</b>	3453 3453	5 1/2" 2 7/8"	15.5# 6.5#	K-55 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 @ 2212'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

 $5\ 1/2"$  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 279 sacks of class "B" cement with 1/4# flocele/sack and 3% calcium chloride (329 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 455 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. 998 cu ft. of slurry, 110% excess to circulate 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 circulate to surface, a temperature log will be run after 8 hours to determine TOC.

5 1/2" liner - do not cement.

DATE: JUL 2,1990

#### 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).

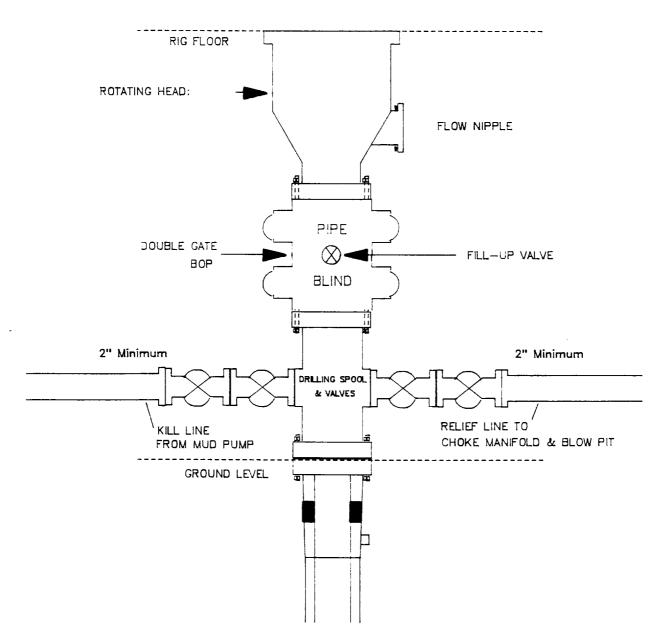
Pipe rams will be actuated at least once each day and blind rams actuated once each trip to test proper functioning. An upper kelly cock valve with handle and drill string safety valves to fit each drill string will be maintained and available on the rig floor.

#### Additional Information:

- \* The Fruitland coal formation will be completed.
- \* Anticipated Fruitland pore pressure is 1530 psi.
- \* This gas is dedicated.
- \* The W/2 of Section 1 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.

#### MERIDIAN OIL INC.

Drilling Rig BOP Configuration

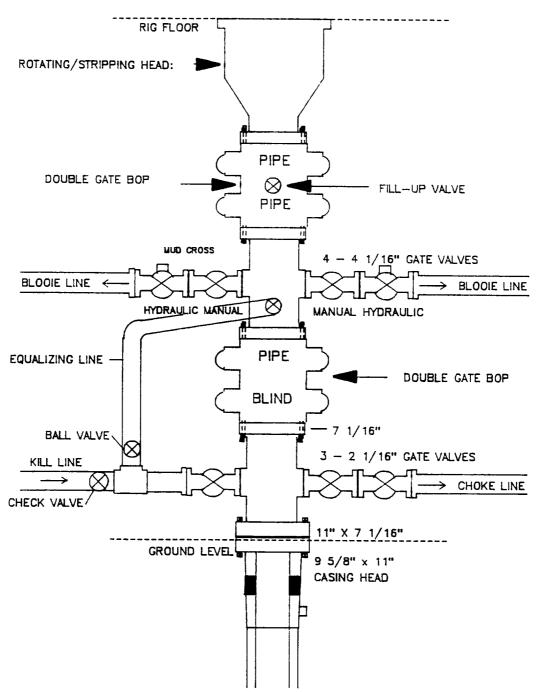


Minimum BOP installation for a typical Fruitland Coal well from surface to Intermediate casing point. 11" Bore (10" Nominal), 2000psi minimum working pressure double gate BOP to be equipped with blind and pipe rams. A Schaffer Type 50 equivalent rotating head to be installed on the top of BOP. All equipment is 2000psi working pressure/or greater.

Figure #1

### **MERIDIAN OIL INC.**

Completion Rig BOP Configuration

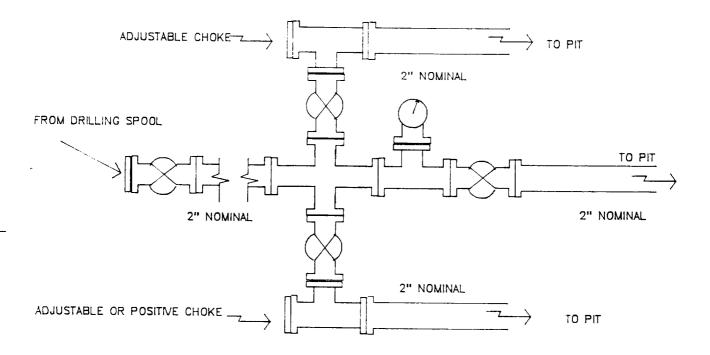


Minimum BOP installation for a typical open—hole Fruitland Coal well from intermediate TD to TD. 7 1/16" Bore (6" Nominal), 2000psi working pressure/ or greater double stack double gate BOP equipped with three pipe and one blind ram.

Figure #2

### MERIDIAN OIL INC.

Typical Fruitland Coal Well Choke Manifold Configuration



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

## Figure #3

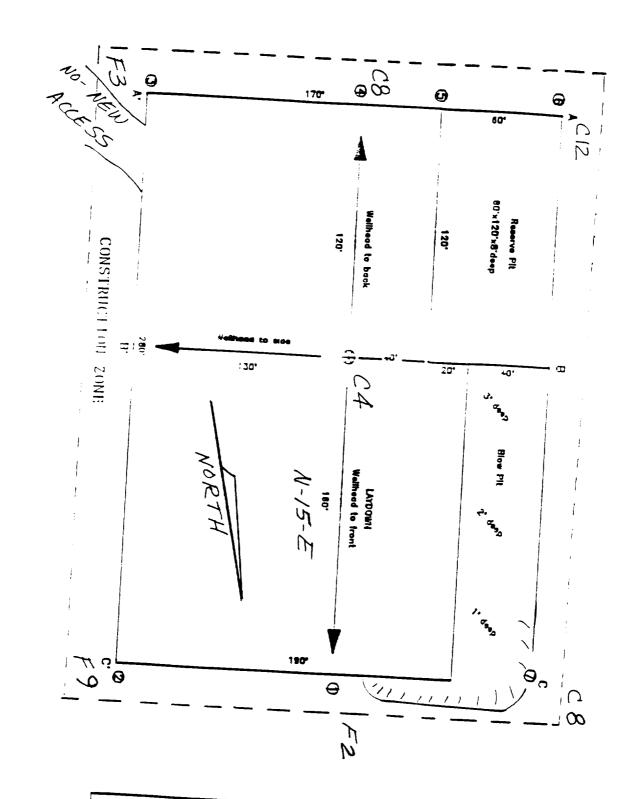
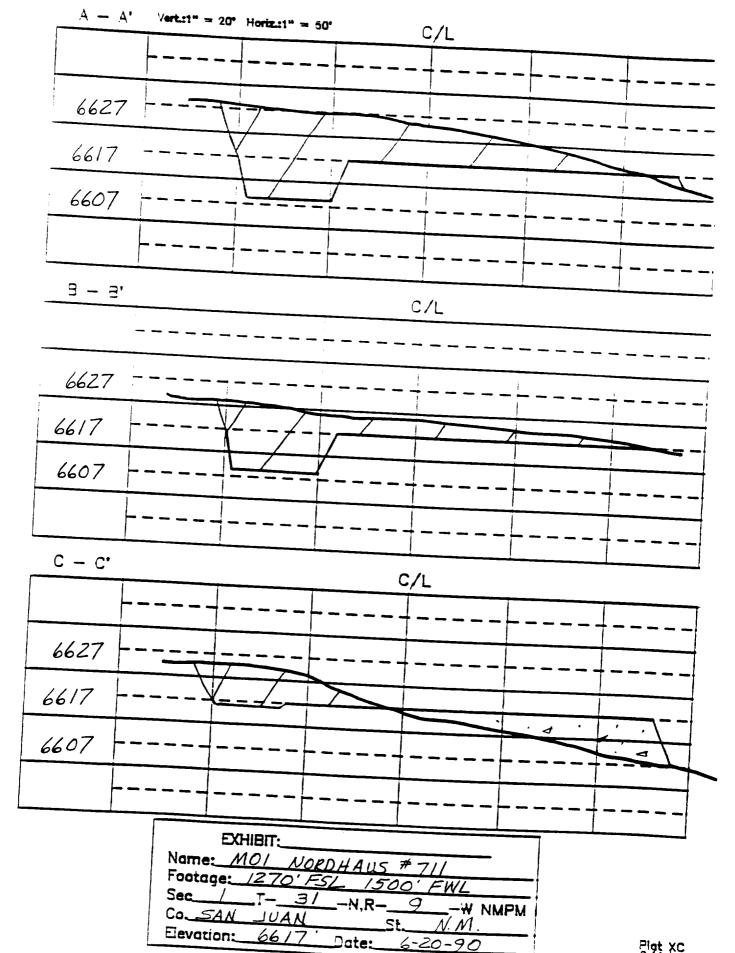


	EXHIBIT:
	Name: MOI NORDHAUS #7//
	100tage: 1270 FSL 1500 FWI
	Sec   T- 3/ -N, R- 9 -W NMPM
	Elevation: 66/7' St. NM
-	Date: 6-20-90

Plat 2 2/3/90



WELL PAD BOUNDARY Well Head CATHODIC PROTECTION Earthen Berm Xxxxxxxxxxxxxxxxx Separator Tanks (As required) **X**XXXXXXXXXXXXXXXX Fiberglass Pit Dehydrator Chemical Facility Meter Run 

PLAT #1

# MERIDIAN OIL

ANTICIPATED
PRODUCTION FACILITIES
FOR A
FRUITLAND WELL

KFR 2/90