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-078508 6. IF INDIAN,ALL. OR TRIBE NAME
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. 717
4. LOCATION OF WELL 960'FSL 1450'FWL	10. FIELD,POOL,OR WILDCAT BASIN FRUITLAND COAL 11. SEC. T. R. M OR BLK. SEC. 13 T31N R09W NMPM
14. PERMIT NO. / 15. ELEVATIONS 6501'GL	12. COUNTY SAN JUAN / 13. STATE NM

16. SUBSEQUENT REPORT OF: Amended Application for Permit to Drill

17. Describe proposed or completed operations Operator & Name Change

Reference is made to from Union Texas Petroleum's Application for Permit to Drill the Nordhaus 13 #1 approved 02-05-90.

Meridian Oil Inc. will operate and drill this well as the Nordhaus #717 at 960'FSL and 1450'FWL of Section 13 of Township T31N and Range R09W.

Submitted for review:

- C102
- Operations Plan
- BOP Diagrams
- Location Laydown
- Cut and Fill Diagram
- Facilities Diagram

RECEIVED
AUG 0 6 1990
OIL CON. DIV
DIST. 3

18. AUTHORIZED BY: Peggy Bradfield
REGULATORY AFFAIRS

6-28-90
DATE

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

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITION OF APPROVAL, IF ANY:

Submit to Appropriate
District Office
State Lease - 4 copies
Fee Lease - 3 copies

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

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

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Form C-102
Revised 1-1-89

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator	Lease	Well No.
Meridian Oil Inc.	Nordhaus (SF-078508)	717

Unit Letter	Section	Township	Range	County
N	13	31 North	9 West NMPM	San Juan

Actual Footage Location of Well: 960 feet from the South line and 1450 feet from the West line

Ground level Elev.	Producing Formation	Pool	Dedicated Acreage:
6501'	Fruitland Coal	Basin	314.08 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

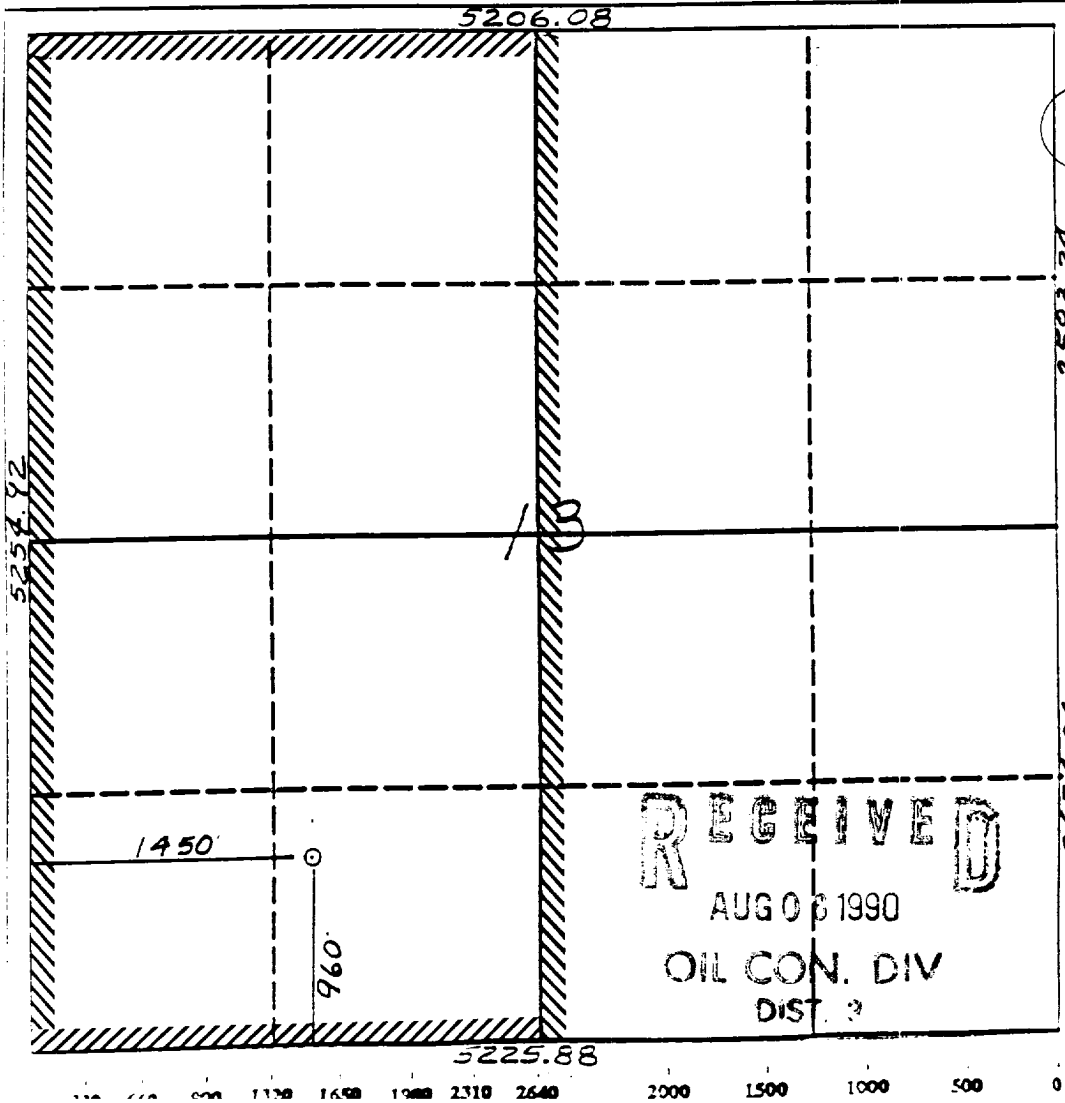
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?

☐ Yes ☐ No If answer is "yes" type of consolidation _____

If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary. _____

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.



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AUG 06 1990
OIL CON. DIV.
DIST. 3

OPERATOR CERTIFICATION

I hereby certify that the informa contained herein is true and complete to best of my knowledge and belief.

Signature

Peggy Bradfield
Printed Name

Regulatory Affairs
Position

Meridian Oil Inc.
Company

6-25-90
Date

SURVEYOR CERTIFICATION

I hereby certify that the well location sho on this plat was plotted from field notes actual surveys made by me or under supervison, and that the same is true correct to the best of my knowledge belief. 6-20-90

Date Surveyed

Signature & Seal of Professional Surveyor

NEW MEXICO
6857
REGISTERED LAND SURVEYOR

6857
Certificate No.

Neal C. Edwards

 OPERATIONS PLAN DATE: JUN 28,1990

Well Name: 717 NORDHAUS 960'FSL 1450'FWL
Sec. 13 T31N R09W SAN JUAN NEW MEXICO
BASIN FRUITLAND COAL Elevation 6501'GL

Formation tops: Surface- SAN JOSE
Ojo Alamo- 1838
Kirtland- 1894
Fruitland- 2921
Fruitland Coal Top- 3174 Intermediate TD- 3154
Fruitland Coal Base- 3349 Total Depth- 3351
Pictured Cliffs- 3354

Logging Program: Mud logs from intermediate to total depth.

Mud Program:	Interval	Type	Weight	Visc.	Fl. Loss
	0 - 350	Spud	8.4 - 8.9	40-50	no control
	350 - 3154	Non-dispersed	8.4 - 9.1	30-60	no control
	3154 - 3351	Formation Water	8.4		no control

Casing Program:	Hole Size	Depth Interval	Csg. Size	Weight	Grade
	12 1/4"	0 - 350	9 5/8"	32.3#	H-40
	8 3/4"	0 - 3154	7"	20.0#	K-55
	6 1/4"	3104 - 3351	5 1/2"	15.5#	K-55
Tubing Program:		0 - 3351	2 7/8"	6.5#	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 @ 1894' . 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 463 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. 1013 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.

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).

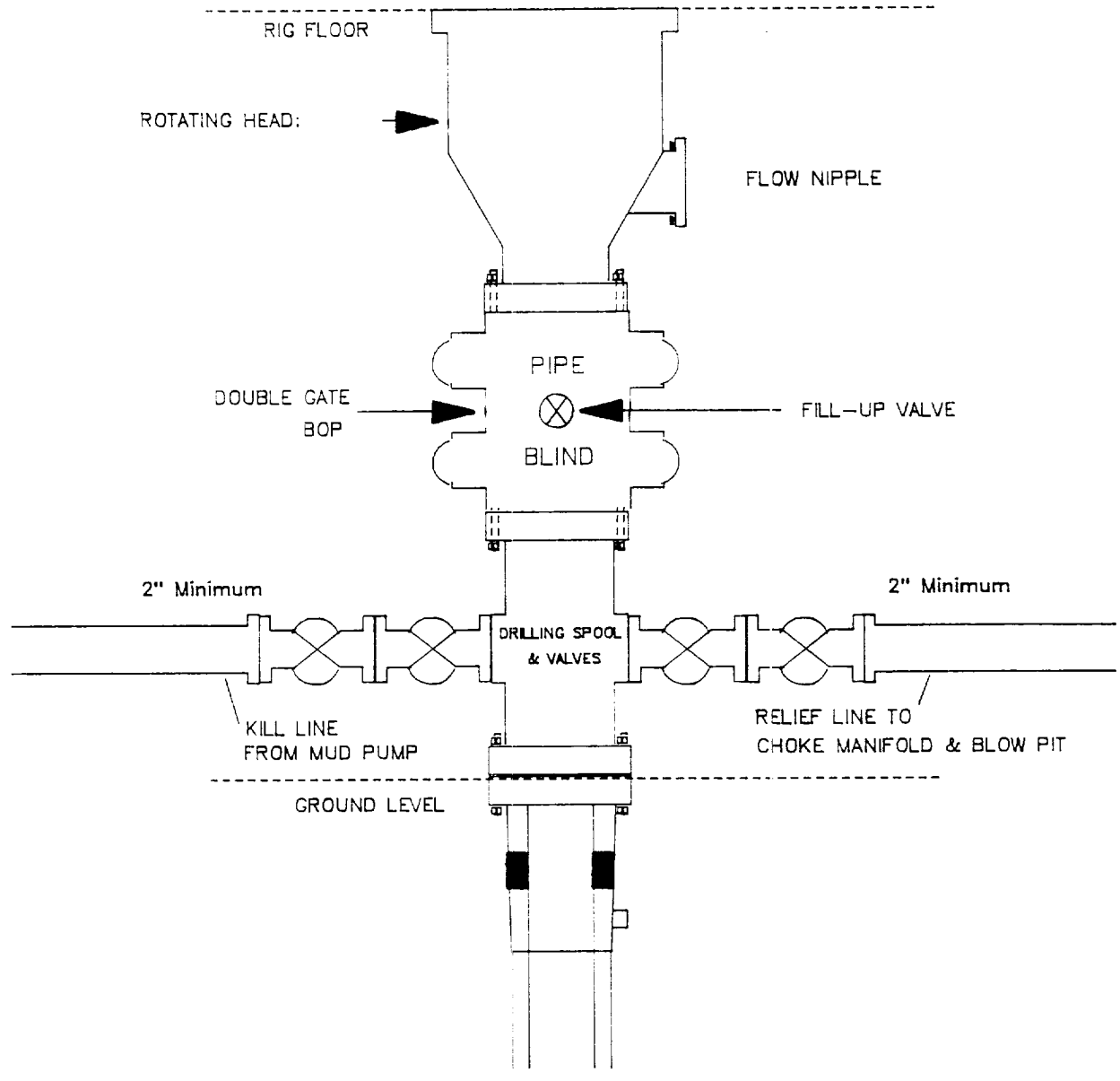
Pipe rams will be actuated at least once each day and blind rams actuated once each trip to test proper functioning. An upper kelly cock valve with handle and drill string safety valves to fit each drill string will be maintained and available on the rig floor.

Additional Information:

* The Fruitland coal formation will be completed.
* Anticipated Fruitland pore pressure is 1530 psi.
* This gas is dedicated.
* The E/2 of Section 13 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

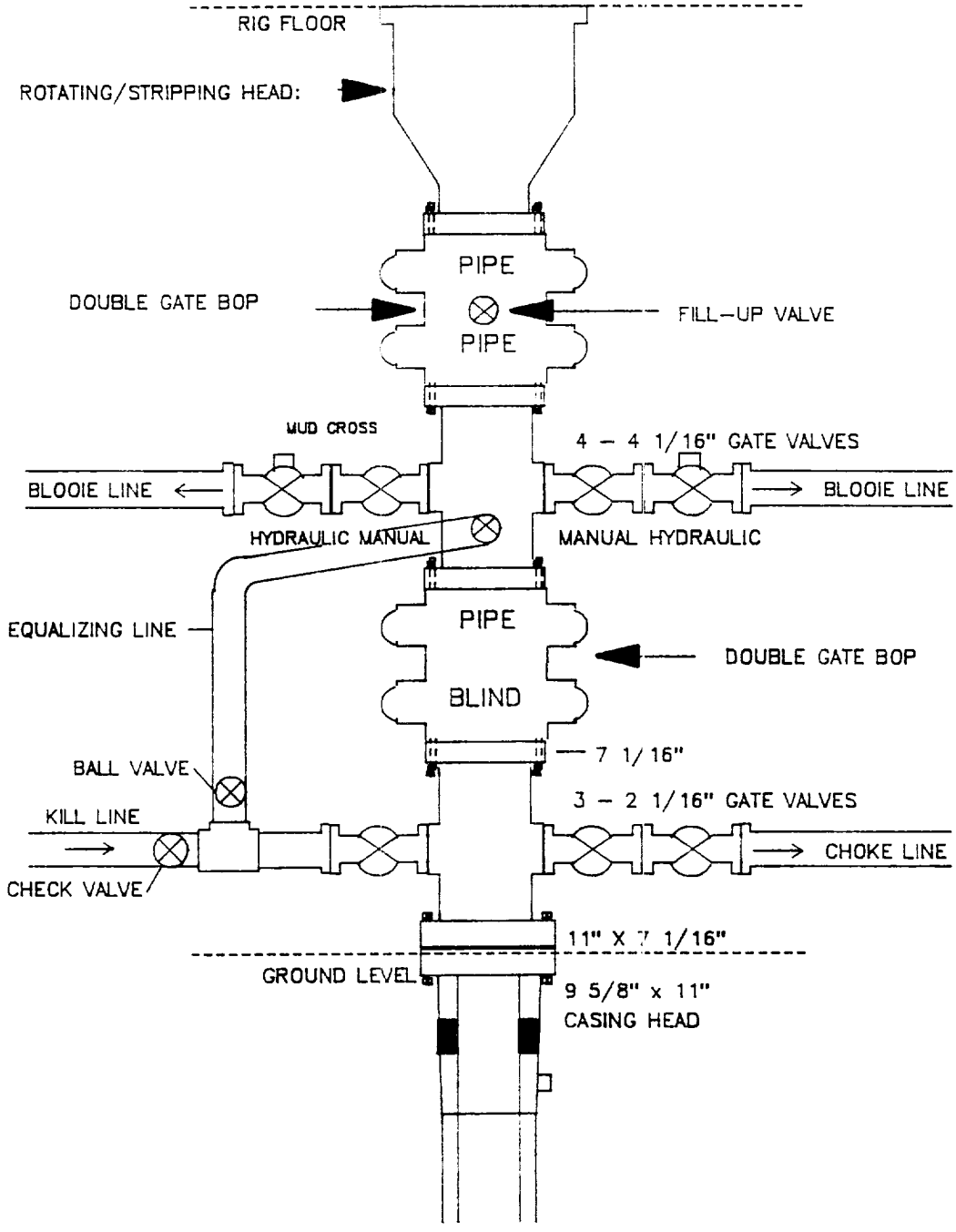


Minimum BOP installation for a typical Fruitland Coal well from surface to Intermediate casing point. 11" Bore (10" Nominal), 2000psi minimum working pressure double gate BOP to be equipped with blind and pipe rams. A Schaffer Type 50 equivalent rotating head to be installed on the top of BOP. All equipment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

Figure #1

AMS/02-05-90

MERIDIAN OIL INC.
Completion Rig
BOP Configuration



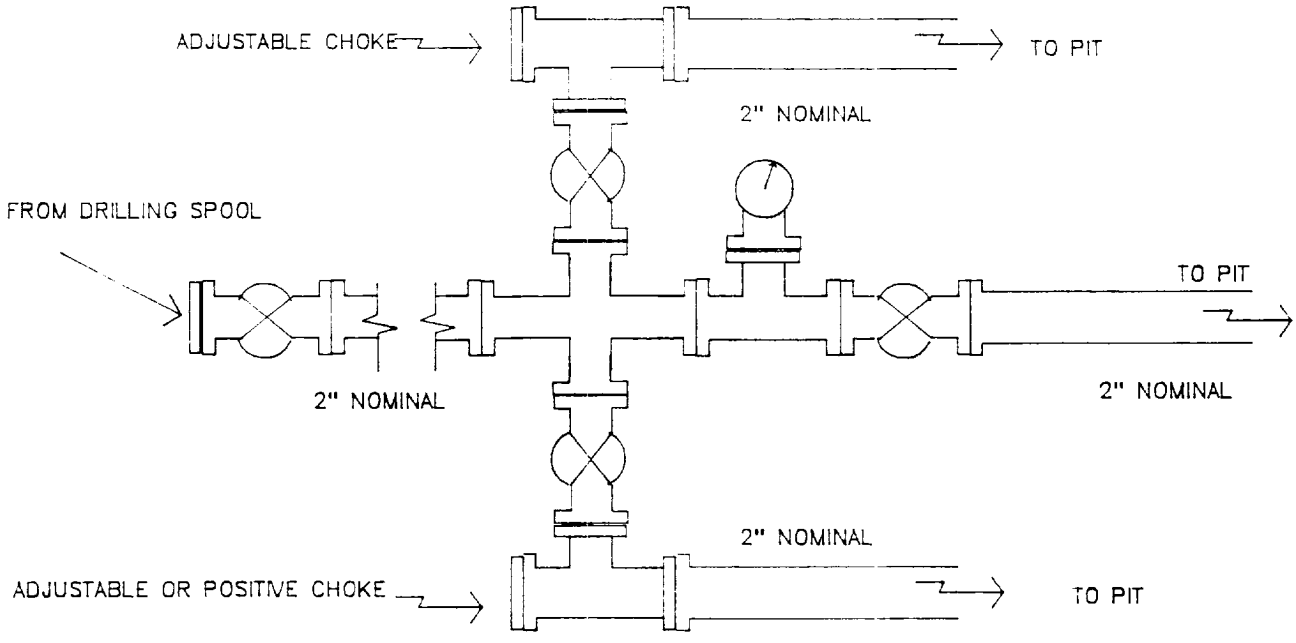
Minimum BOP installation for a typical open-hole Fruitland Coal well from intermediate TD to TD. 7 1/16" Bore (6" Nominal), 2000psi working pressure/ or greater double stack double gate BOP equipped with three pipe and one blind ram.

Figure #2

AMS/02-05-90

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

AMS/01-31-90

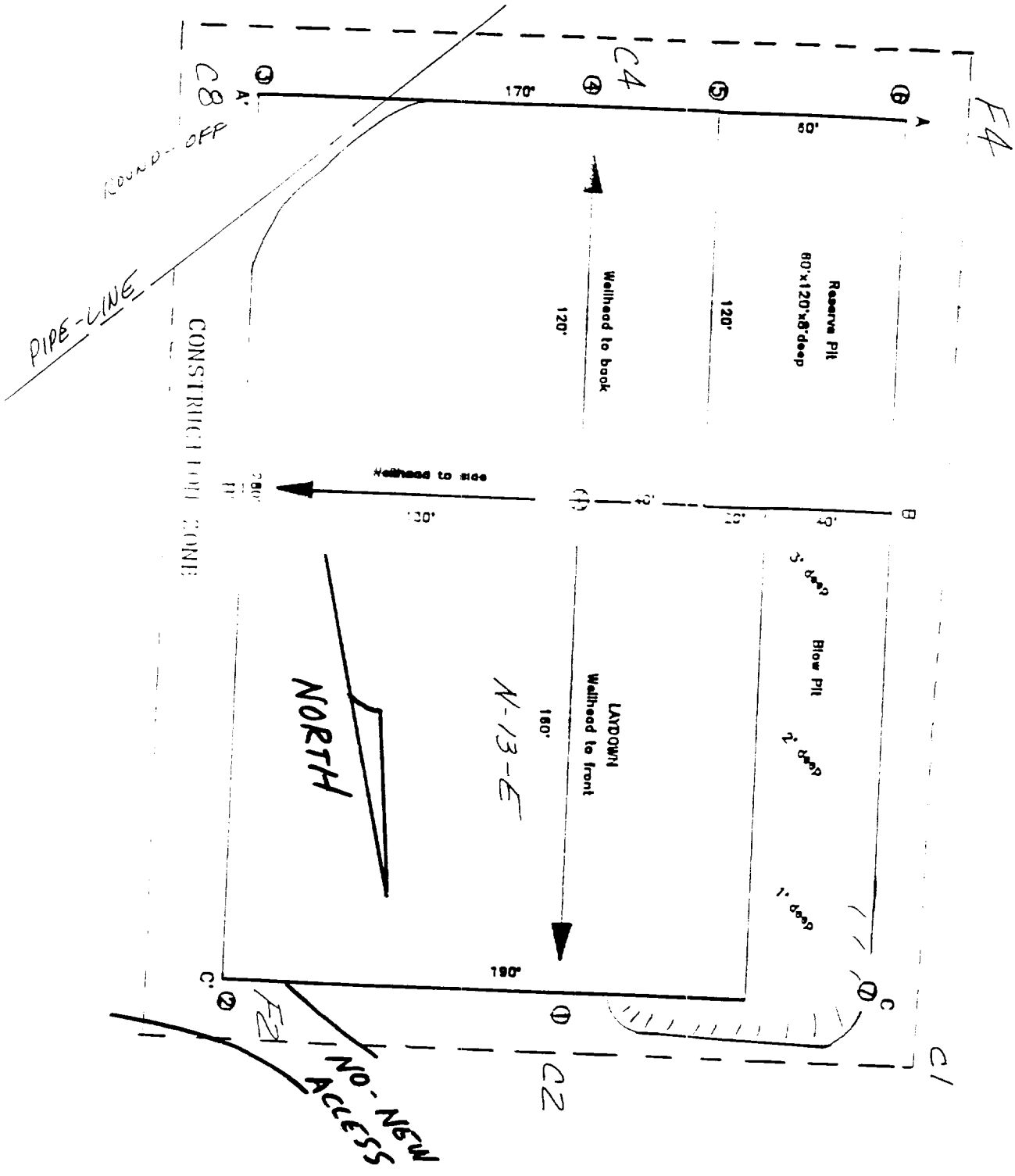


EXHIBIT: _____

Name: MOI NORDHAUS #717

Footage: 960' FSL 1450' FWL

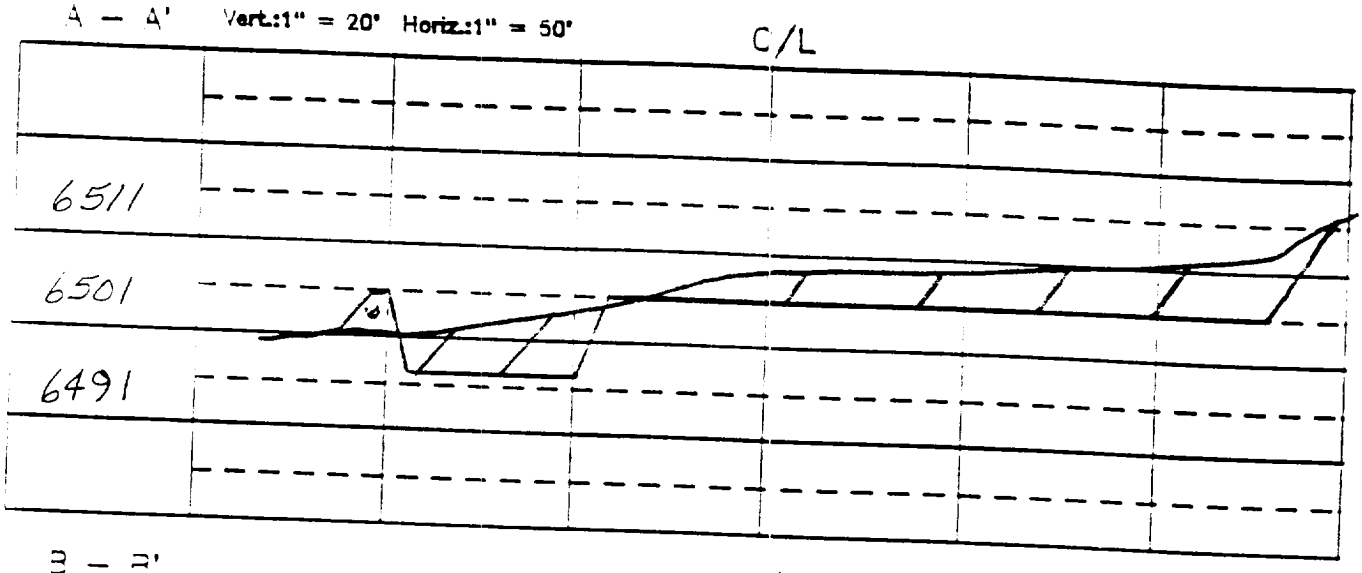
Sec 13 T- 31 -N, R- 9 -W NMPM

Co. SAN JUAN St: NM

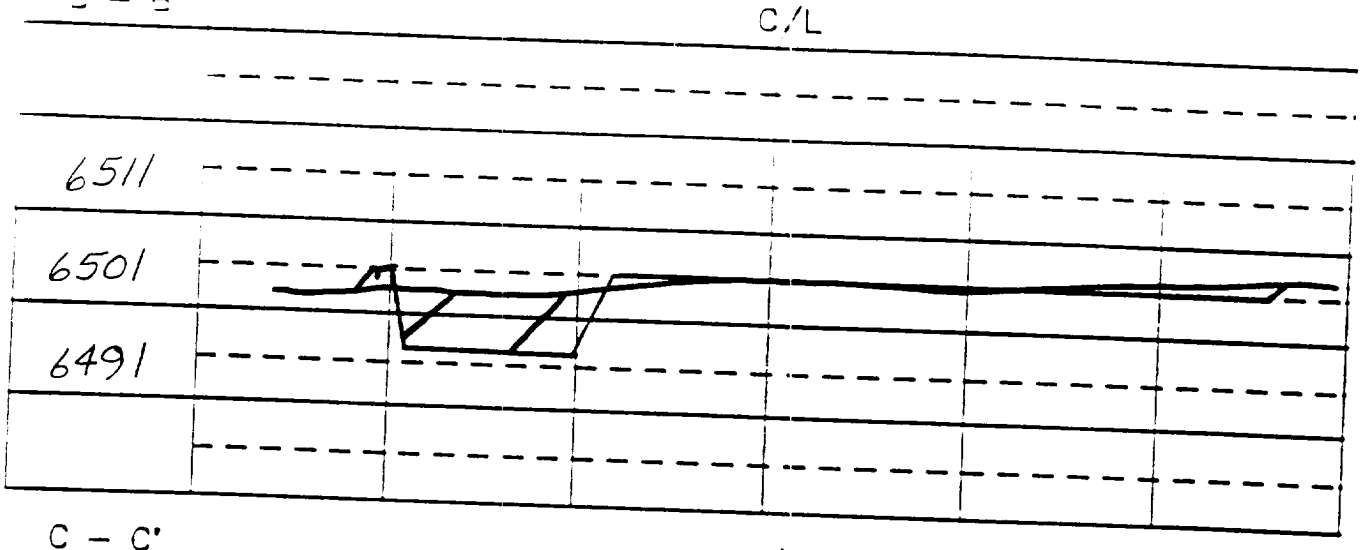
Elevation: 6501' Date: 6-20-90

Plat 2
2/3/90

A – A' Vert.:1" = 20' Horiz.:1" = 50'



B – B'



C – C'

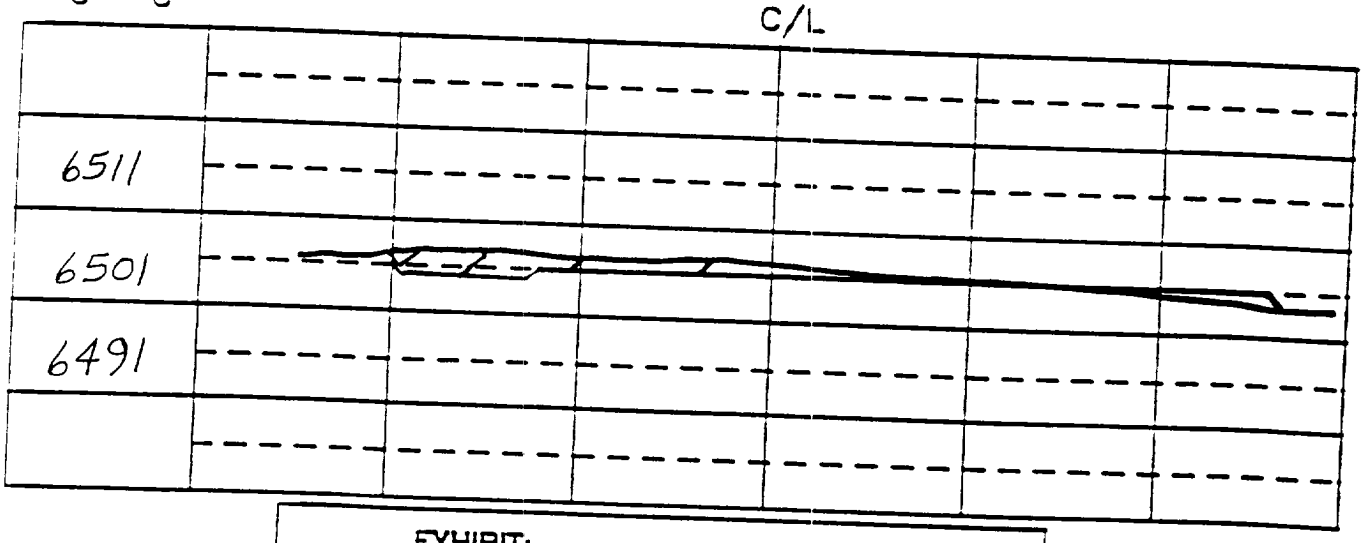


EXHIBIT: _____

Name: MOI NORDHAUS #717

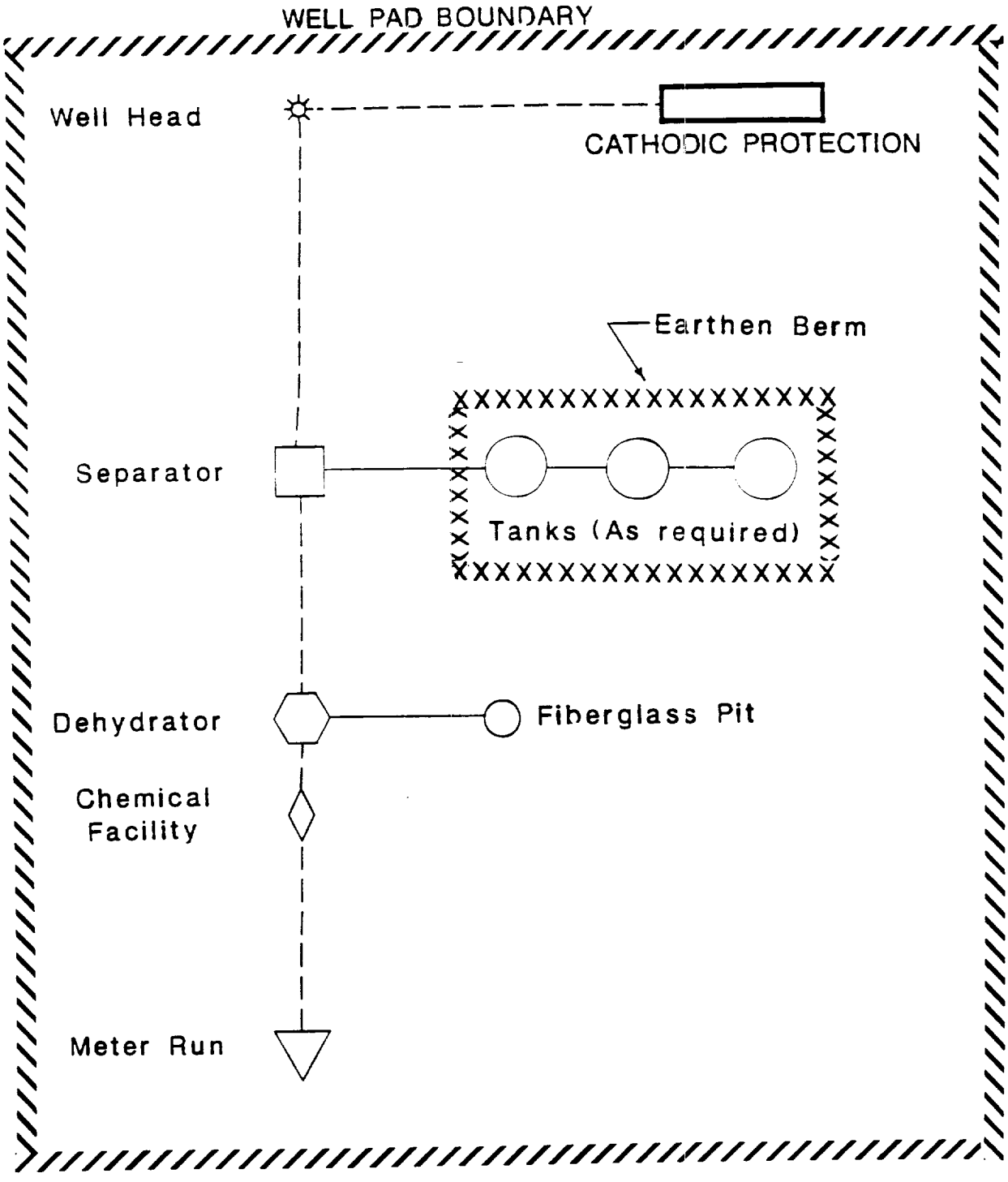
Footage: 960' FSL 1450' FWL

Sec 13 T- 31 -N,R- 9 -W NMPM

Co. SAN JUAN St. NM

Elevation: 6501' Date: 6-20-90

Plat XC
2/4/90



PLAT #1

MERIDIAN OIL

ANTICIPATED
PRODUCTION FACILITIES
FOR A
FRUITLAND WELL

KFR 2/90