



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 S. PACHECO
SANTA FE, NEW MEXICO 87505
(505) 827-7131

March 15, 1995

RECEIVED
MAR 23 1995
OIL CON. DIV.
DIST. 4

Meridian Oil, Inc.
Attention: Peggy Bradfield
P.O. Box 4289
Farmington, New Mexico 87499-4289

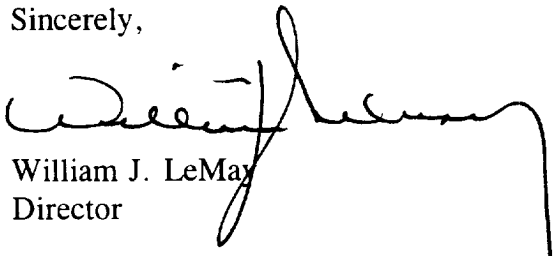
Administrative Order NSL-3499

Dear Ms. Bradfield:

Reference is made to your application dated February 21, 1995 for a non-standard gas well location in the Basin-Dakota Pool for your proposed Canyon Largo Unit Well No. 427 to be drilled 900 feet from the South line and 2215 feet from the West line (Unit N) of Section 11, Township 25 North, Range 7 West, NMPM, Rio Arriba County, New Mexico. The W/2 of said Section 11 shall be dedicated to the well forming a standard 320-acre gas spacing and proration unit for said pool.

By the authority granted me under the provisions of Rule 2(c) of the "Special Rules and Regulations for the Basin-Dakota Pool", as promulgated by Division Order No. R-8170, as amended, the above-described unorthodox gas well location is hereby approved.

Sincerely,


William J. LeMay
Director

WJL/MES/kv

cc: Oil Conservation Division - Aztec
U. S. Bureau of Land Management - Farmington

Ernie Busch

From: Ernie Busch
To: Mike Stogner
Subject: MERIDIAN OIL INC (NSL)
Date: Friday, February 24, 1995 11:04AM
Priority: High

CANYON LARGO UNIT #427
900' FSL; 2215' FWL
N-11-25N-07W
RECOMMEND: APPROVAL

submitted in lieu of Form 3160-5

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells

- | | |
|---|--|
| <p>1. Type of Well
GAS</p> <p>2. Name of Operator
MERIDIAN OIL</p> <p>3. Address & Phone No. of Operator
PO Box 4289, Farmington, NM 87499 (505) 326-9700</p> <p>4. Location of Well, Footage, Sec., T, R, M
1350' FSL 1450' FWL, Sec. 33, T-26-N, R-4-W, NMPM</p> | <p>5. Lease Number
Jic Contract 107</p> <p>6. If Indian, All. or
Tribe Name
Jicarilla Apache</p> <p>7. Unit Agreement Name</p> <p>8. Well Name & Number
Jicarilla 107 #2</p> <p>9. API Well No.
30-039-06228</p> <p>10. Field and Pool
So Blanco Pict Cliffs</p> <p>11. County and State
Rio Arriba Co, NM</p> |
|---|--|

12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA

Type of Submission	Type of Action
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other -
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut off
	<input type="checkbox"/> Conversion to Injection

13. Describe Proposed or Completed Operations

The well name of the subject well has been changed from Jicarilla F #2 at the request of the New Mexico Oil Conservation Division.

RECEIVED
NOV - 4 1994
OIL CON. DIV.
DIST. 3

14. I hereby certify that the foregoing is true and correct.

Signed *Robert A. Kent* Title Regulatory Affairs Date 10/19/94

(This space for Federal or State Office use)

APPROVED BY: (ORIG. SGD.) ROBERT A. KENT Title _____ Date NOV 1 1994

CONDITION OF APPROVAL, if any:

MERIDIAN OIL

February 21, 1995
Sent Federal Express

Mr. William LeMay
New Mexico Oil Conservation Division
2040 South Pacheco
Santa Fe, New Mexico 87504

RECEIVED
FEB 23 1995
OIL CON. DIV.
DIST. 3

Re: Meridian Oil Inc. Canyon Largo Unit #427
900'FSL, 2215'FWL Section 11, T-25-N, R-7-W - Rio Arriba County, New Mexico
API # 30-039-not yet assigned

Dear Mr. LeMay:

Meridian Oil Inc. is applying for administrative approval of a non-standard location for the above well in the Basin Dakota formation. This application for the referenced location is due to topographic reasons and to minimize any surface disturbance in the grazing lands at the request of the grazing permittee and the Bureau of Land Management (see attached letter). This location is also for archaeological considerations.

This well will be drilled and completed as a single Basin Dakota well.

The following attachments are for your review:

1. Application for Permit to Drill.
2. Completed C-102 at referenced location.
3. Offset operators/owners plat and affidavit of notification.
4. 7.5 minute topographic map showing the orthodox windows for the Dakota, and enlargement of the map to define topographic features.
5. Letter from Bureau of Land Management

A copy of this application is being submitted to all offset owners/ operators by certified mail with a request that they furnish you with a Waiver of Objection, and return one copy to this office.

It is planned to drill this well early in the second quarter of 1995. Therefore, your prompt consideration of this request is greatly appreciated.

Sincerely,



Peggy Bradfield
Regulatory/Compliance Representative
encs.

WAIVER


_____ hereby waives objection to Meridian Oil's application for a non-standard location for their Canyon Largo Unit #427 as proposed above.

By: _____ Date: _____

xc: Mr. Norman L. Gilbreath

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	5. Lease Number SF-078881 Unit Reporting Number
1b. Type of Well GAS	6. If Indian, All. or Tribe
2. Operator MERIDIAN OIL	7. Unit Agreement Name Canyon Largo Unit
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name Canyon Largo Unit 9. Well Number 427
4. Location of Well 900' FSL, 2215' FWL Latitude 36° 24' 38", Longitude 107° 32' 41"	10. Field, Pool, Wildcat Basin Dakota 11. Sec., Twn, Rge, Mer. (NMPM) Sec 11, T-25-N, R-7-W API # 30-039-
14. Distance in Miles from Nearest Town 24 miles southeast of Blanco, NM	12. County Rio Arriba 13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 900'	
16. Acres in Lease	17. Acres Assigned to Well W/2 320
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 2300'	
19. Proposed Depth 6960'	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6408' GR	22. Approx. Date Work will Start 2nd quarter 1995
23. Proposed Casing and Cementing Program See Operations Plan attached	
24. Authorized by:  Regional Drilling Engineer	Date <u>1/12/95</u>

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY _____ TITLE _____ DATE _____

Archaeological Report submitted by Arboles Contract Archaeology Technical Report #661 dated 11-23-94
Threatened and Endangered Species Report submitted by Ecosphere dated 11-25-94
NOTE: This format is issued in lieu of U.S. BLM Form 3160-3

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form 1
Revised February 21, 1994
Instructions on
Submit to Appropriate District Office
State Lease - 4 C
Fee Lease - 3 C

☐ AMENDED RETURN

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number		Pool Code	Pool Name
		71599	Basin Dakota
Property Code	Property Name		Well Number
6886	Canyon Largo Unit		427
OGRID No.	Operator Name		Elevation
14538	Meridian Oil Inc.		6408'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
N	11	25 N	7 W		900	SOUTH	2215	WEST	R. A.

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
W/320			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

¹⁶		5318.28		¹⁷ OPERATOR CERTIFICATION	
		REVISED LOCATION		I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.	
SF-078881		RECEIVED FEB 23 1995 OIL CON. DIV. DIST. 3		Signature Peggy Bradfield Printed Name Regulatory Affairs Title 1-6 95- Date	
2215'		5191.56		¹⁸ SURVEYOR CERTIFICATION	
900'				I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made or under my supervision, and that the same is true correct to the best of my belief.	
				11-1-94 Date of Survey Signature and Seal of Professional Surveyor: NEHE C. EDWARDS 8857 8859 CERTIFIED LAND SURVEYOR	
				Certificate Number	

5194.20'

OPERATIONS PLAN

Well Name: Canyon Largo Unit #427
Location: 300' FSL, 2215' FWL Section 11, T-25-N, R-7-W
 Rio Arriba County, New Mexico
 Latitude 36° 24' 33", Longitude 107° 32' 41"
Formation: Basin Dakota
Elevation: 6408' GL

<u>Formation Tops:</u>	<u>Top</u>	<u>Bottom</u>	<u>Contents</u>
Surface	Nacimiento	1580'	
Ojo Alamo	1580'	1730'	aquifer
Kirtland	1730'	2210'	
Fruitland	2210'	2310'	gas
Pictured Cliffs	2310'	2400'	gas
Lewis	2400'	3140'	
Chacra	3140'	3840'	
Massive Cliff House	3840'	3930'	
Menefee	3930'	4550'	
Massive Pt. Lookout	4550'	4830'	gas
Mancos	4830'	5650'	
Gallup	5650'	6515'	gas & oil
Greenhorn	6515'	6600'	gas & oil
Graneros	6600'	6620'	
Dakota	6620'	6840'	gas
Burro Canyon/Encinal	6840'	6845'	gas
Morrison	6845'		salt water
Total Depth	6960'		

Logging Program:

Mud Logs/Coring/DST -
 Mud logs - 5600' to TD.
 Coring - none
 DST - none
 Electric logs - DIL/SP/GR; Density/Neut/GR; Microlog-GR;

Mud Program:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Vis.</u>	<u>Fluid Loss</u>
0- 320'	Spud	3.4-8.9	40-50	no control
320-6960'	LSND	3.4-9.1	30-60	no control

Pit levels will be visually monitored to detect gain or loss of fluid control.

Casing Program:

<u>Hole Size</u>	<u>Depth Interval</u>	<u>Csg. Size</u>	<u>Wt.</u>	<u>Grade</u>
12 1/4"	0' - 320'	8 5/8"	24.0#	K-55
7 7/8"	0' - 6960'	5 1/2"	17.0#	K-55

Tubing Program:

0' - 6960' 2 3/8" 4.7# J-55 EUE

BOP Specifications, Wellhead and Tests:**Surface to TD -**

11" 2000 psi minimum double gate BOP stack (Reference Figure #1).
After nipple-up prior to drilling out surface casing, rams and casing will be tested to 500 psi for 30 minutes.

2" nominal, 2000 psi minimum choke manifold (Reference Figure #3).

Completion Operations -

6" 2000 psi double gate BOP stack (Reference Figure #2).
After nipple-up prior to completion, pipe rams and casing top will be tested to 3000 psi for 15 minutes.

Surface to Total Depth -

2" nominal, 2000 psi minimum choke manifold (Reference Figure #3).

Wellhead -

8 5/8" x 5 1/2" x 2 3/8" x 3000 psi tree assembly.

General -

- Pipe rams will be actuated once each day and blind rams will be actuated once each trip to test proper functioning.
- An upper kelly cock valve with handle available and drill string valves to fit each drill string will be available on the rig floors at all times.
- A BOP pit level drill will be conducted weekly for each drilling crew.
- All of the BOP tests and drills will be recorded in the daily drilling reports.
- Blind and pipe rams will be equipped with extension hand wheels.

Cementing:**8 5/8" surface casing -**

Cement to surface w/336 sx Class "B" cement w/3% calcium chloride and 1/4#/sx cellophane flakes (396 cu.ft. of slurry, 200% excess to circulate to surface.) WOC 12 hours prior to drilling out surface casing. Test casing to 600 psi for 30 minutes.

Saw tooth guide shoe on bottom. Bowspring centralizers will be run in accordance with Onshore Order #2.

Production Casing - 5 1/2"

First Stage: Cement to circulate to stage tool @ 4830'. Lead w/317 sx 65/35 Class "B" Pozmix w/6% gel, 2% calcium chloride, and 1/4#/sx cellophane flakes. Tail w/100 sx Class "B" cement w/2% calcium chloride. WOC 4 hours prior to pumping second stage. (Slurry volume: 646 cu.ft. Excess slurry 75%.)

Second Stage: Cement to circulate to stage tool @ 2110'. Lead w/418 sx 65/35 Class "B" Pozmix w/6% gel, 2% calcium chloride, and 1/4#/sx cellophane flakes. Tail w/100 sx Class "B" cement w/2% calcium chloride. WOC a minimum of 18 hours prior to cleanout. (Slurry volume: 925 cu.ft. Excess slurry: 75%.)

Third Stage: Cement to circulate to surface. Cement w/365 sx 65/35 Class "B" Formax w/6- gel, 2- calcium chloride, and 1/4#/sx cellophane flakes. Tail w/100 sx Class "B" cement w/2- calcium chloride. WOC a minimum of 18 hours prior to cleanout. Slurry volume: 711 cu.ft. Excess slurry: 100-.

Float shoe on bottom. Three centralizers run every other joint above shoe. Thirty-three centralizers - one every 4th joint to the base of the Ojo Alamo @ 1730'. Two turboizing type centralizers - one below and one into the base of the Ojo Alamo @ 1730'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

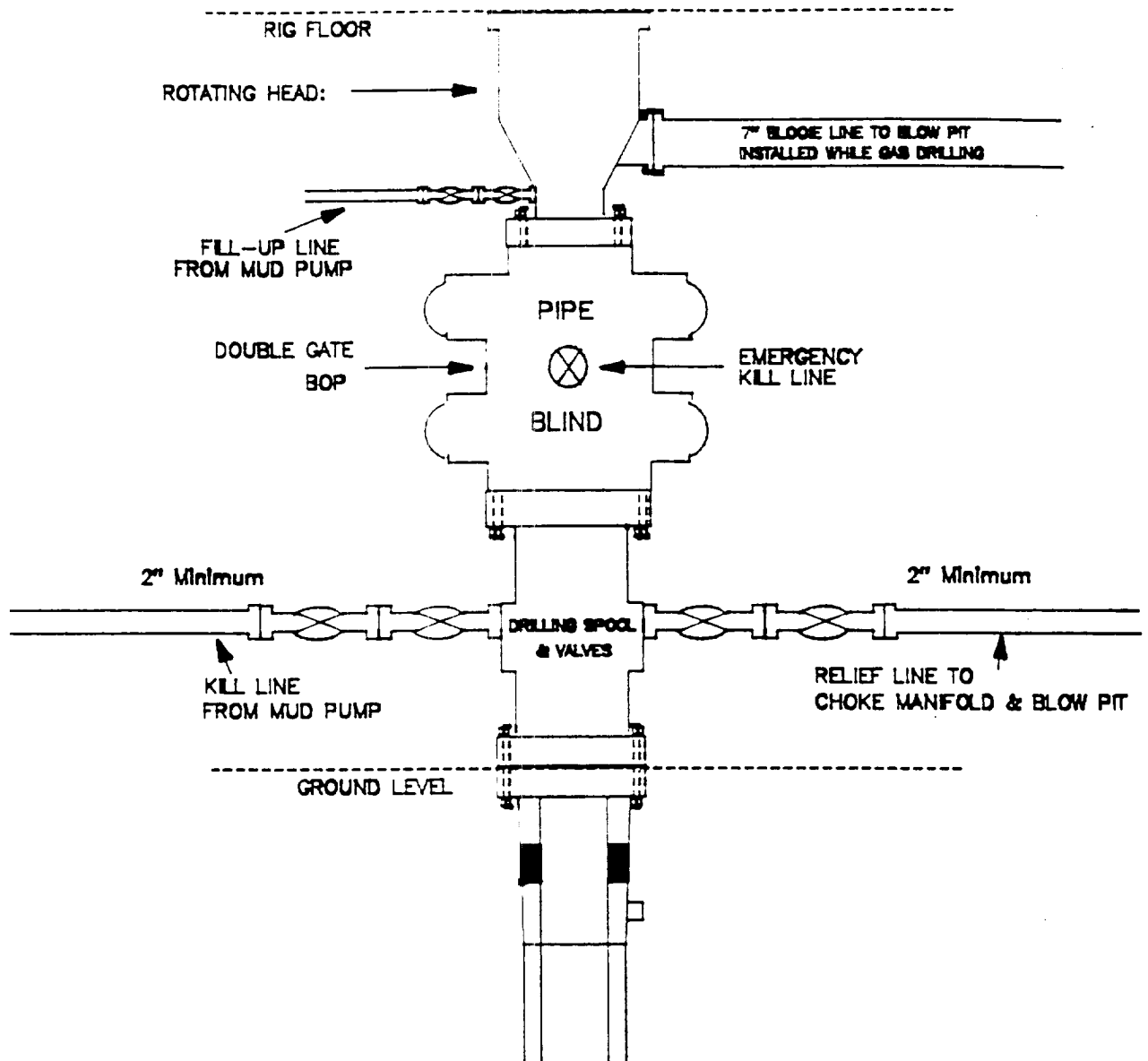
- If hole conditions permit, an adequate water spacer will be pumped ahead of each cement job to prevent cement/ mud contamination or cement hydration.
- The pipe will be rotated and/or reciprocated, if hole conditions permit.

Additional Information:

- The Dakota formation will be completed.
- No abnormal temperatures or hazards are anticipated.
- Sufficient LCM will be added to the mud system to maintain well control, if lost circulation is encountered below the top of the Pictured Cliffs.
- The west half of the Section is dedicated to this well.
- This gas is dedicated.
- New casing will be utilized.
- Anticipated pore pressure for Pictured Cliffs and Fruitland Coal is 300 psi.
- Pipe movement (either rotation or reciprocation) will be done if hole conditions permit.

MERIDIAN OIL INC.

BOP Configuration 2M psi SYSTEM

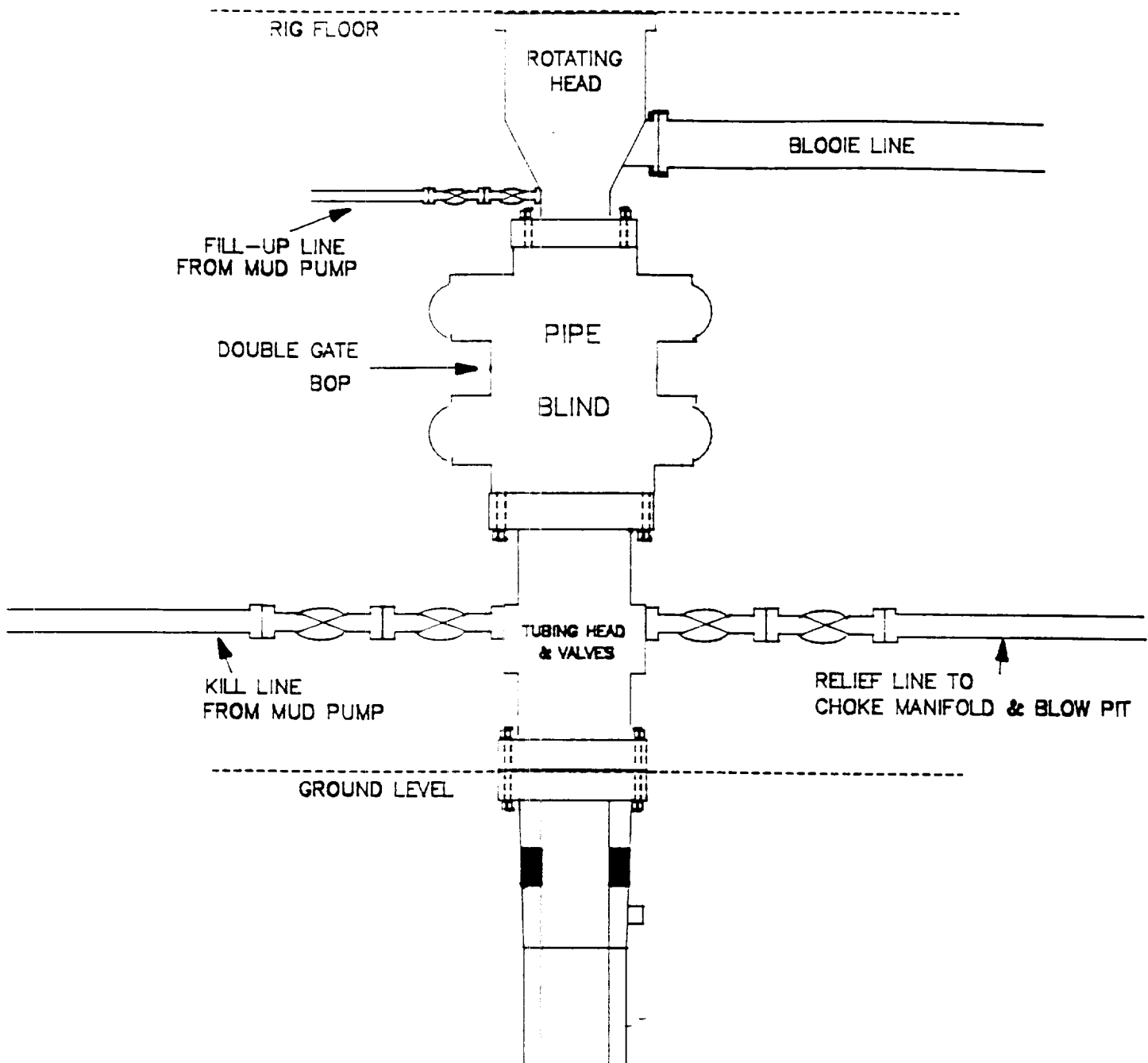


11" Bore, 2000psi minimum working pressure double gate BOP to be equipped with blind and pipe rams. A Schaffer Type 50 or equivalent rotating head to be installed on the top of the BOP. All equipment is 2000psi working pressure/or greater.

Figure #1

MERIDIAN OIL INC.

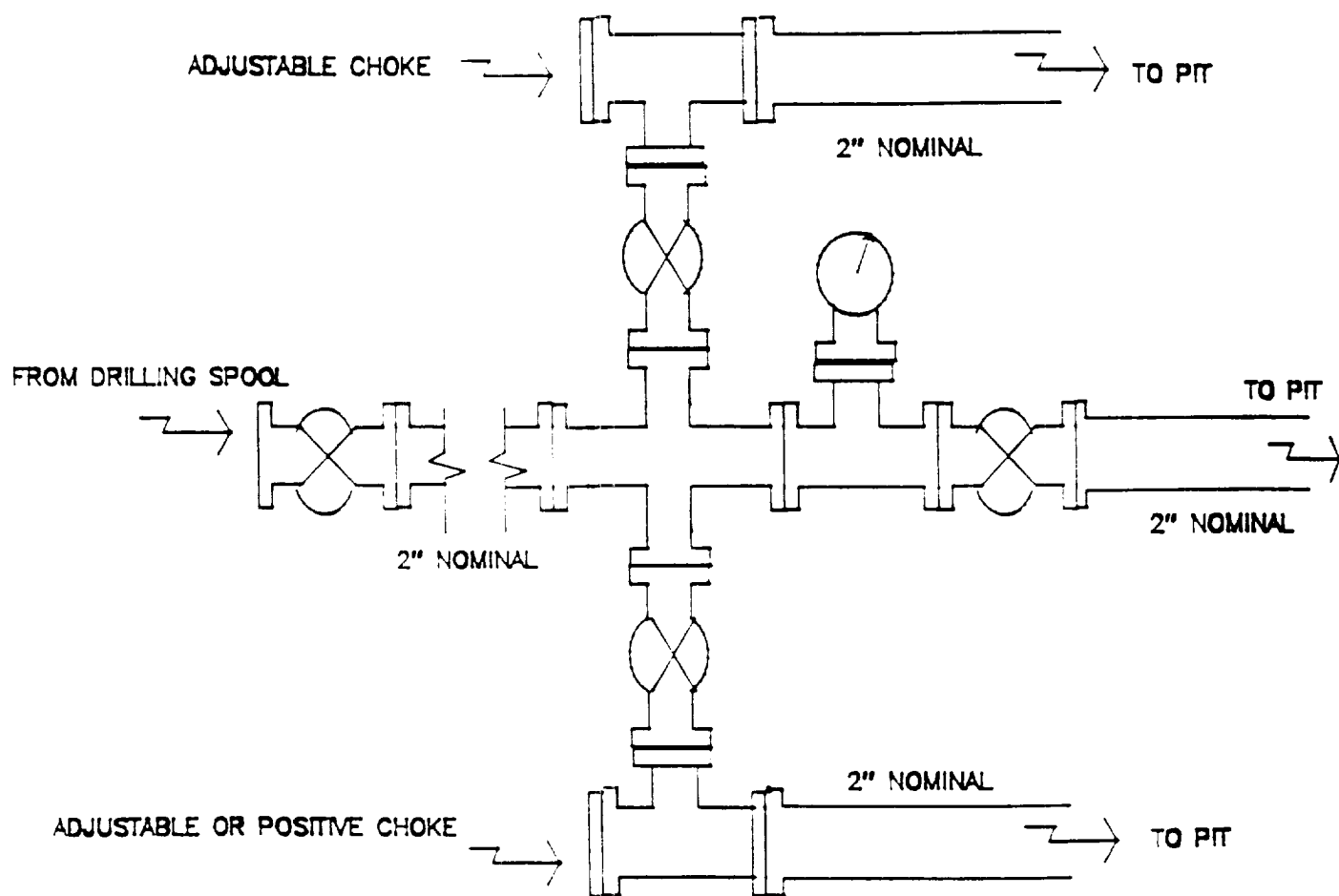
BOP Configuration 2M psi SYSTEM



Minimum BOP installation for Completion operations. 7 1/16" Bore (6" Nominal), 3000psi minimum working pressure double gate BOP to be equipped with blind and pipe rams.

Figure #2

MERIDIAN OIL INC.
Choke Manifold Configuration
2M psi SYSTEM



Minimum choke manifold installation from surface to Total Depth.
2" minimum, 2000psi working pressure equipment with two chokes.

Figure #3

MERIDIAN OIL
Canyon Largo Unit #427
Multi-Point Surface Use Plan

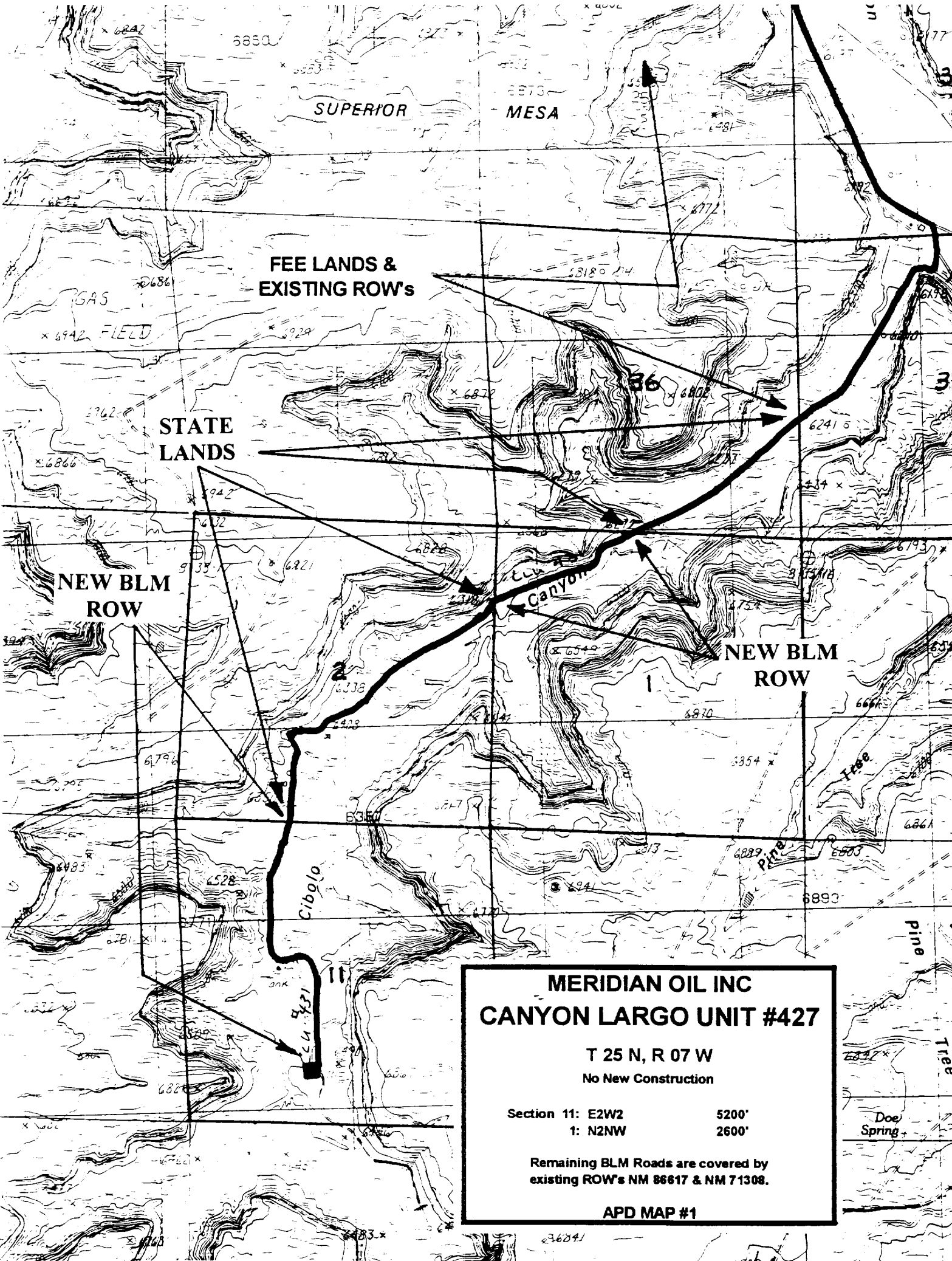
1. Existing Roads - Refer to Map No. 1. Existing roads used to access the proposed location will be properly maintained for the duration of the project. Bureau of Land Management right-of-way has been applied for as shown on Map No. 1.
2. Planned Access Road - Refer to Map No. 1. None required. xi
3. Location of Existing Wells - Refer to Map No. 1A.
4. Location of Existing and/or Proposed Facilities if Well is Productive -
 - a. On the Well Pad - Refer to Plat No. 1. anticipated production facilities plat.
 - b. Off the Well Pad - Anticipated facilities off the well pad will be applied for as required.
5. Location and Type of Water Supply - Water will be hauled by truck for the proposed project and will be obtained from Superior Water Hole #1 located NW Section 4, T-25-N, R-6-W, New Mexico.
6. Source of Construction Materials - if construction materials are required for the proposed project, such materials will be obtained from a commercial quarry.
7. Methods of Handling Waste Materials - All garbage and trash materials will be removed from the site for proper disposal. A portable toilet will be provided for human waste and serviced in a proper manner. If liquids are left in the reserve pit after completion of the project, the pit will be fenced until the liquids have had adequate time to dry. The location clean-up will not take place until such time as the reserve pit can be properly covered over to prevent run-off from carrying waste materials into the watershed. All reserve pits will be lined with 12 mil bio-degradable plastic liner. All earthen pits will be so constructed as to prevent leakage from occurring; no earthen pit will be located on natural drainage. Generation of hazardous waste is not anticipated. Federal regulations will be adhered to regarding handling and disposal of such waste if so generated.
8. Ancillary Facilities - None anticipated.
9. Wellsite Layout - Refer to the location diagram and to the wellsite cut and fill diagram (Figure No. 4). The blow pit will be constructed with a 2'/160' grade to allow positive drainage to the reserve pit and prevent standing liquids in the blow pit.

10. Plans for Restoration of the Surface - After completion of the proposed project, the location will be cleaned and leveled. The location will be left in such a condition that will enable reseeding operations to be carried out. Seed mixture as designated by the responsible government agency will be used. The reseeding operations will be performed during the time period set forth by the responsible government agency. The permanent location facilities will be painted as designated by the responsible government agency.
11. Surface Ownership - Bureau of Land Management.
12. Other Information - Environmental stipulations as outlined by the responsible government agency will be adhered to. Refer to the archaeological report for a description of the topography, flora, fauna, soil characteristics, dwellings, historical and cultural sites.
13. Operator's Representative and Certification - Meridian Oil Regional Drilling Manager, Post Office Box 4289, Farmington, NM 87499, telephone (505) 326-9700. I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan, are to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Meridian Oil Inc. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.


Regional Drilling Engineer

1/10/95
Date

JWC:pb



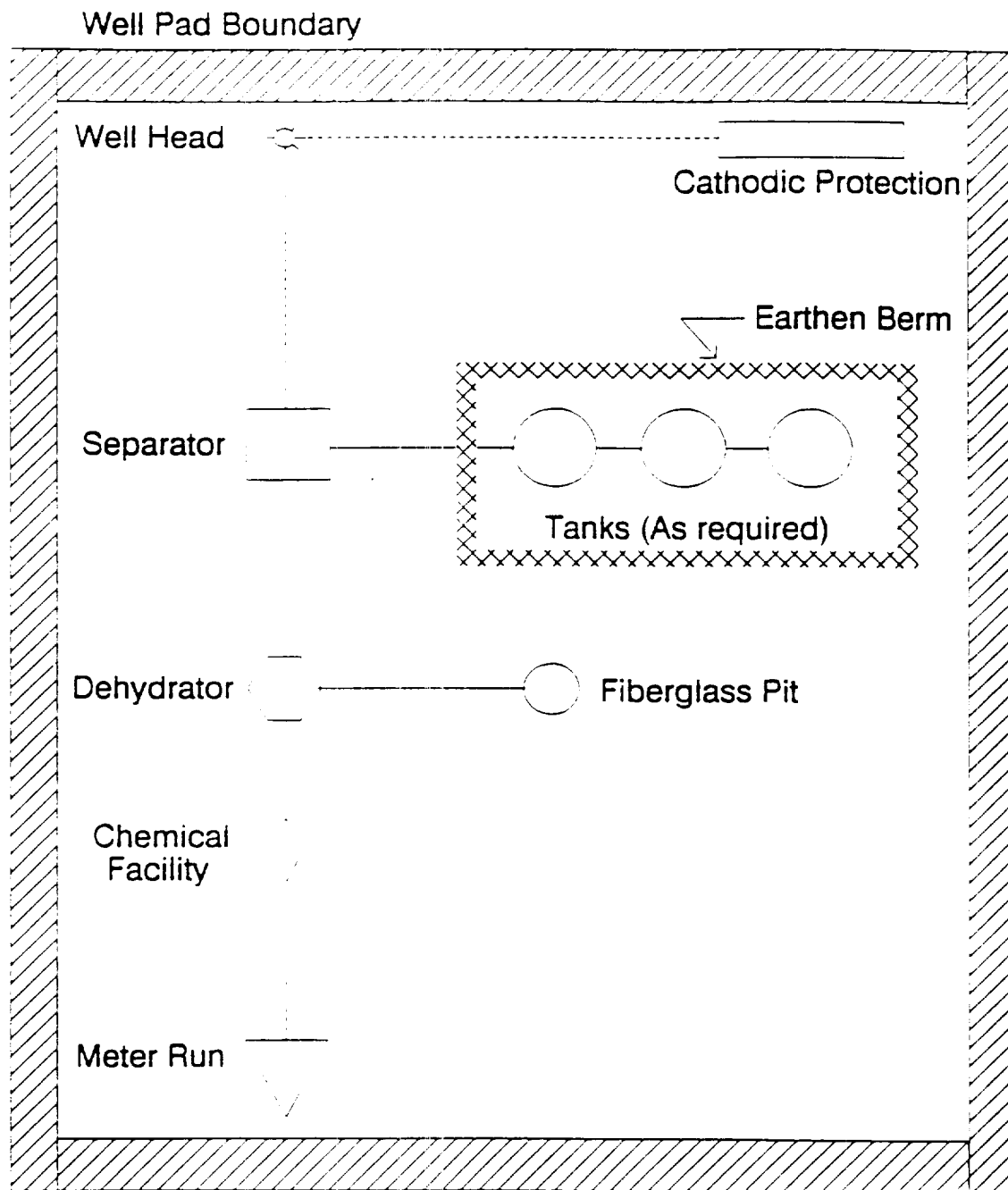
**MERIDIAN OIL INC
CANYON LARGO UNIT #427**

T 25 N, R 07 W
No New Construction

Section 11: E2W2 5200'
1: N2NW 2600'

**Remaining BLM Roads are covered by
existing ROW's NM 86617 & NM 71308.**

APD MAP #1



PLAT #1

MERIDIAN OIL
 ANTICIPATED
 PRODUCTION FACILITIES
 FOR A
 DAKOTA WELL

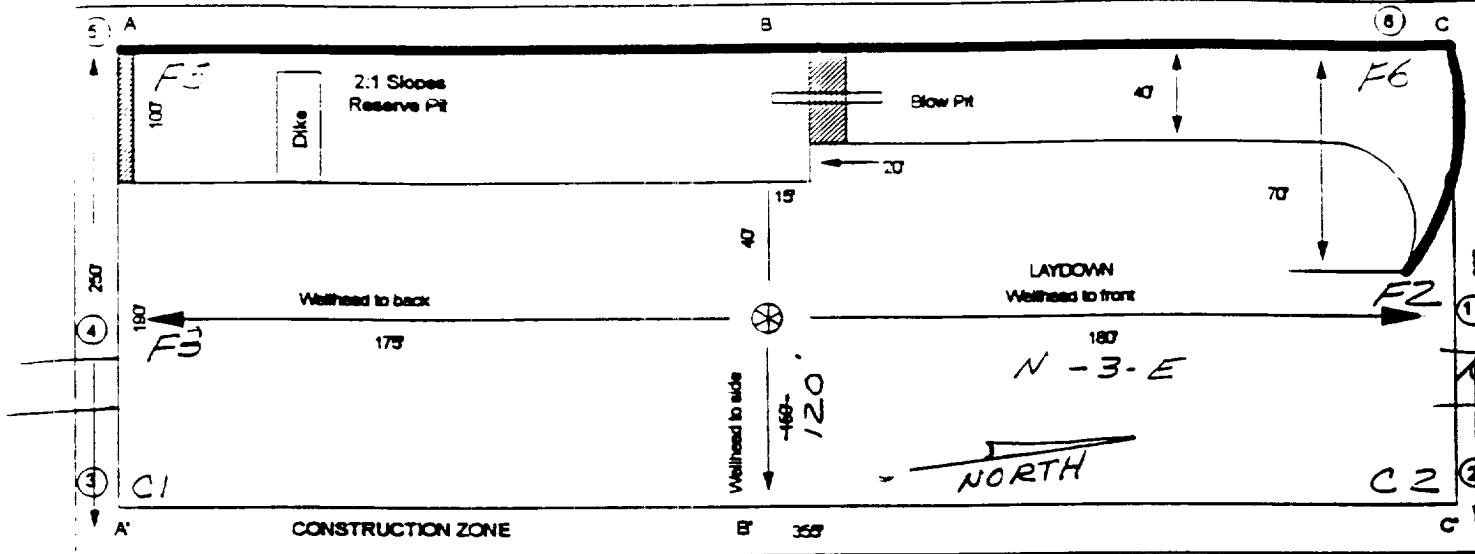
MERIDIAN OIL

PLAT #2

FC HIGH POTENTIAL

ALL MV / ALL DK

NAME: MOI Canyon Largo Unit # 427
 FOOTAGE: 900' FSL 2215' FWL
 SEC 11 TWN 25 N.R. 7 W NMPM
 CO: Rio Arriba ST: New Mexico
 ELEVATION: 6408' DATE: 11-1-94



290'X355'

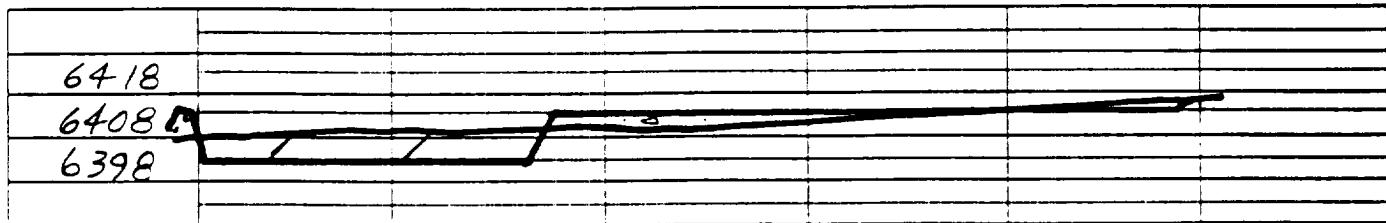
(390'X 455') = 4.07 ACRES

Reserve Pit Dike : to be 6" above Deep side; (overflow - 3' wide and 1' above shallow side.)

Blow Pit : overflow pipe halfway between top and bottom and extend over plastic liner and into blow pit.

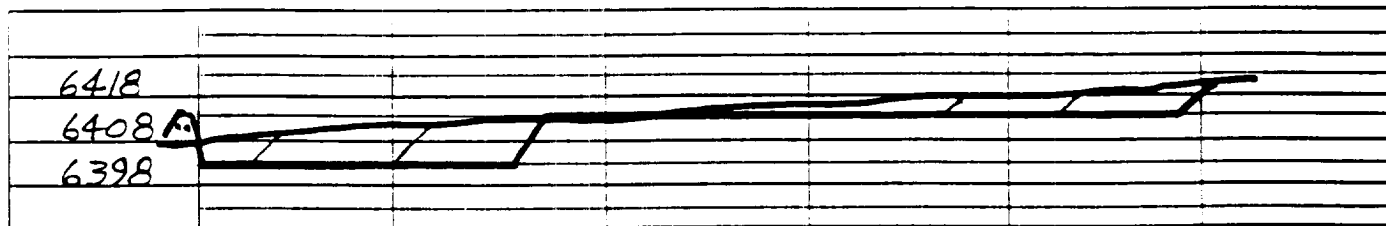
A-A'

C/L



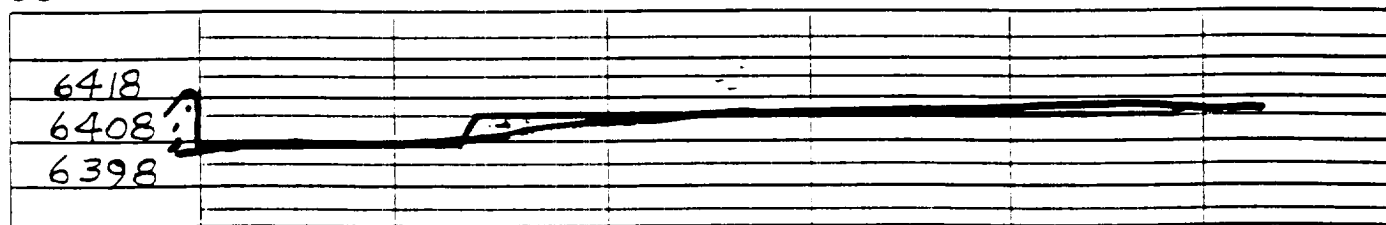
B-B'

C/L



C-C'

C/L



Note: Contractor should call One-Call for location of any marked or unmarked buried pipelines or cables on well pad and/or access road at least 2 working days prior to construction.

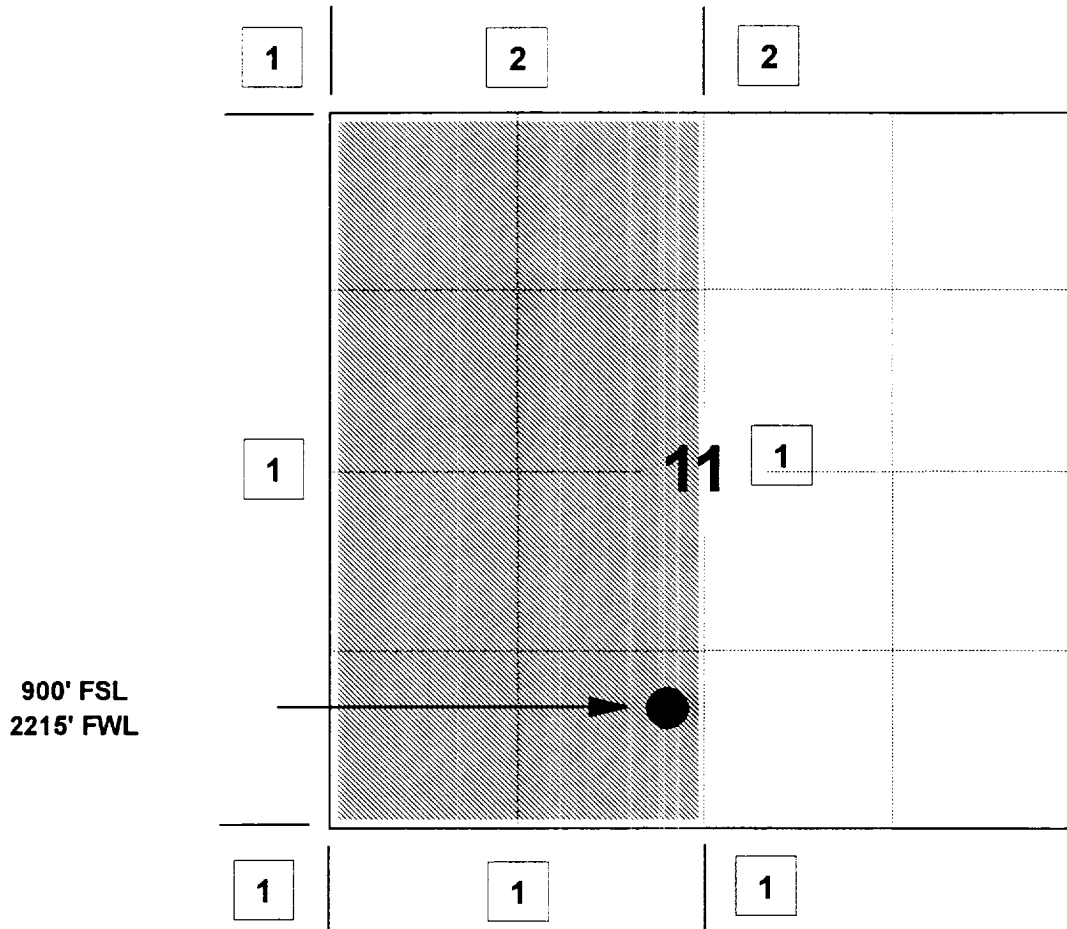
MERIDIAN OIL INC

CANYON LARGO UNIT #427

OFFSET OPERATOR \ OWNER PLAT

Unorthodox Dakota Formation Well

Township 25 North, Range 7 West



1) Meridian Oil Inc

2) Norman L. Gilbreath

PO Box 208, Aztec, NM 87410

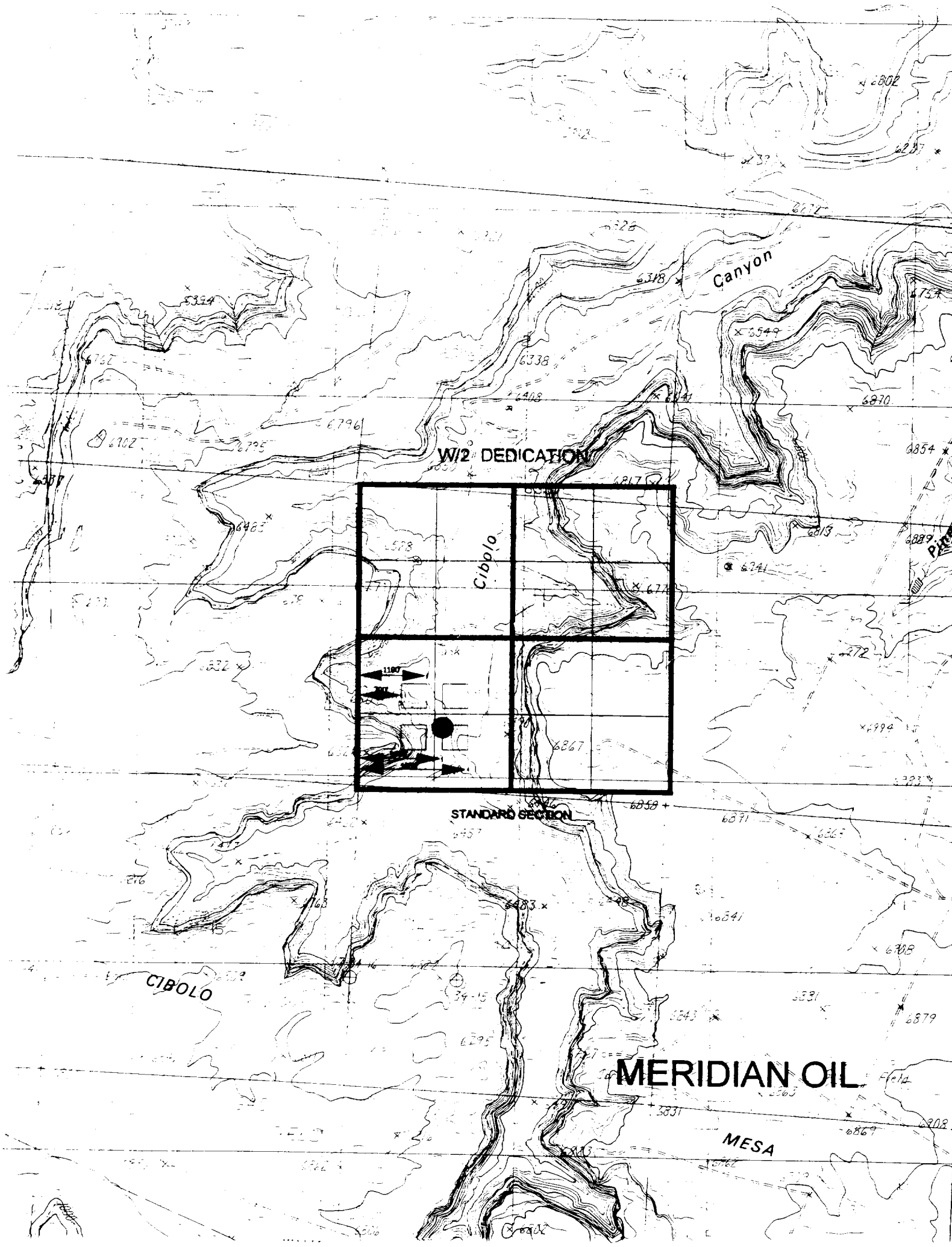
Re: Meridian Oil Inc. Canyon Largo Unit #427
900'FSL, 2215'FWL Section 11, T-25-N, R-7-W - Rio Arriba County, New Mexico
API # 30-039-not yet assigned

I hereby certify that the following offset operators/owners have been mailed notification of our application for non-standard location to drill the referenced well.

Mr. Norman L. Gilbreath
PO Box 208
Aztec, NM 87410

A handwritten signature in black ink, appearing to read "Peggy A. Bradfield". The signature is fluid and cursive, with a large loop at the beginning and a long, sweeping tail.

Peggy A. Bradfield
Regulatory/Compliance Representative



W/2 DEDICATION

Cibola

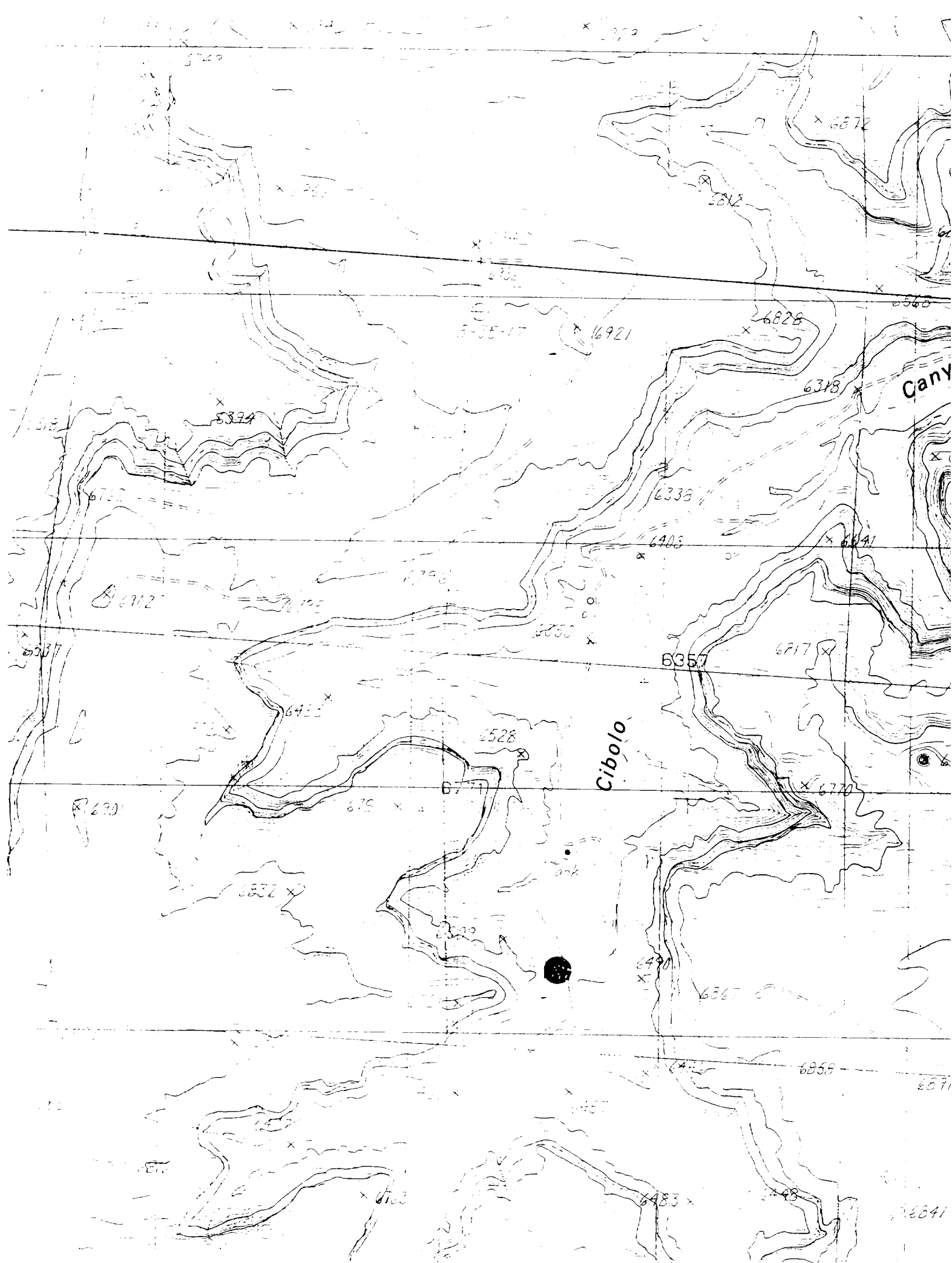
Canyon

STANDARD SECTION

MERIDIAN OIL

CIBOLO

MESA





United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Farmington District Office
1235 La Plata Highway
Farmington, New Mexico 87401

IN REPLY REFER TO:

3162.3-1 (07439)
SF-078881

DEC 9 1994

Meridian Oil Incorporated
Attention: Chuck Smith
P.O. Box 4289
Farmington, NM 87499

Dear Mr. Smith:

This is in reference to your application for permit to drill for the Canyon Largo Unit #427 well, located 925' FSL, 1810' FWL, Sec. 11, T. 25 N., R. 7 W., lease no. SF-078881. After working to find a suitable location within the windows established by the New Mexico Oil Conservation Commission (NMOCC), we suggest you submit for a non-standard location. A suitable location and access road was not found because of topographical constraints and damage to surface resources with the proposed construction of the pad and access road. The proposed pad was located in a flat, grassy area in the bottom of a narrow canyon. The edge of the proposed pad was located immediately adjacent to a large wash creating a concern for potential erosion and the possible future loss of the pad. In addition, the proposed location would have disturbed prime grazing resources available in the narrow canyon. Other potential locations would have increased the environmental surface damage, damage to existing range improvements, or damage to an archeological site. A location approximately 400 feet to the east of the originally staked location would be most suitable. This location moves further away from the wash, cuts down on the disturbance of available grazing resources and lessens the area of new disturbance by incorporating an existing road into the pad.

In the past it has been discussed that non-standard locations would probably be proposed more frequently as the more desirable locations are developed. It is our desire to find the best possible locations for new wells and access roads being proposed with minimal environmental impacts. Therefore we will be glad to support your non-standard proposal for the Canyon Largo Unit #427 to the NMOCC.

If there is any further way in which we can be of assistance, please contact Jackie Neckels of the Environmental Compliance Staff at (505) 599-6323.

Sincerely,

Ilyse K. Gold
Chief, Branch of Lands, Cultural,
Recreation, and Environmental Compliance