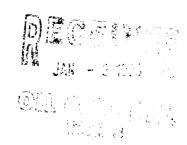
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#### STATE OF NEW MEXICO

#### ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

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

January 3, 1996



Meridian Oil, Inc. P.O. Box 4289 Farmington, NM 87499-4289

Attention: Peggy Bradfield

Administrative Order NSL-3609

Dear Ms. Bradfield:

Reference is made to your application date December 6, 1995 for an unorthodox coal gas well location for the proposed McConnell Well No. 500 to be drilled 1780 feet from the North line and 2180 feet from the East line (Unit G) of Section 13, Township 26 North, Range 9 West, NMPM, Basin Fruitland Coal (Gas) Pool, San Juan County, New Mexico. The E/2 of said Section 13 shall be dedicated to said well to form a standard 320-acre gas spacing and proration unit for said pool.

By the authority granted me under the provisions of Rule 8 of the "Special Rules and Regulations for the Basin-Fruitland Coal Gas Pool", as promulgated by Division Order No. R-8768, as amended, the above-described unorthodox coal gas well location is hereby approved.

Sincerely,

William J. LeMay

Director

WJL/MES/kv

cc: Oil Conservation Division - Aztec

US Bureau of Land Management - Farmington



December 6, 1995

Sent Federal Express

Mr. William LeMay New Mexico Oil Conservation Division 2040 South Pacheco Santa Fe, New Mexico 87505 OPEC - 7 1995 DOWN

Re:

McConnell #500

1780'FNL, 2180'FEL Section 13, T-26-N, R-9-W - San Juan County, New Mexico

API # 30-045-(not yet assigned)

Dear Mr. LeMay:

Meridian Oil Inc. is applying for administrative approval of a non-standard location for the above location in the Basin Fruitland Coal formation. This application for the referenced location is due to terrain as shown on the topographic map, the presence of extensive archaeology and an endangered plant specie.

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.

Barbara Ann Bruss Barbara I. McConnell

4. 7.5 minute topographic map showing the orthodox windows, and enlargement of the map to define topographic features.

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.

Since	braanced
Pegg	y Bradfield
	latory/Compliance Representative
encs.	
	<u>WAIVER</u>
	hereby waives objection to Meridian Oil's application for a non-standard
locati	on for their McConnell #500 as proposed above.
By:	Date:
xc:	Margaret Doris McConnell
	O.J. Lillv

P.O. Box 4289, Farmington, New Mexico 87499-4289. Telephone 505-326-9700, Fax 505-326-9833 3535 East 30th St., 87402-8891

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

	APPLICAT	ION FOR PERMIT TO DRILL, DEEI	PEN, OR PLUG BACK
1a.	Type of Work DRILL	REGEIVE	7. 21
1b.	Type of Well GAS	011 6655 7 133 011 6655 555	6. If Indian, All. or Tribe
2.	Operator MERIDIAN ©IL	DING S	7. Unit Agreement Name
3.	Address & Phone No. of O PO Box 4289, Farm (505) 326-9700	perator nington, NM 87499	8. Farm or Lease Name  McConnell  9. Well Number  500
4.	Location of Well 1780'FNL, 2180'FEL		10. Field, Pool, Wildcat  Basin Ft Coal
	Latitude 36° 29.1,	Longitude 107° 44.3	11. Sec., Twn, Rge, Mer. (NMPM) Sec 13, T-26-N, R-9-W API # 30-045-
14.	Distance in Miles from Nea 7 miles to Huerfand		12. County 13. State San Juan NM
15.	Distance from Proposed 1780'	Location to Nearest Property or Lease	Line
16.	Acres in Lease		17. Acres Assigned to Well 320 E/2
18.	Distance from Proposed Lo	ocation to Nearest Well, Drlg, Compl,	or Applied for on this Lease
19.	Proposed Depth 2250'		20. Rotary or Cable Tools Rotary
21.	Elevations (DF, FT, GR, Et 6273' GR	c.)	22. Approx. Date Work will Start 4th quarter 1995
23.	Proposed Casing and Cem See Operations P		
24.	Authorized by: Region	Oxford Engineer	
PERM	IT NO.	APPROVAL	DATE
APPR	OVED BY	TITLE	DATE

District I PO Bux 1983, Hobbs, NM 88241-1986 District II PO Drawer DD, Artesia, NM 88211-0719 District III 1000 Rio Brazos Rd., Aztec, NM 87410

District IV

# State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088 Form C-10 Revised February 21, 196 Instructions on bac

Submit to Appropriate District Offi State Lease - 4 Copi

Fee Lease - 3 Copi

AMENDED REPOF

### PO Bez 2008. Santa Fe. NM 87504-2008

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#### OPERATIONS PLAN

Well Name: McConnell #500

Location: 1780'FNL, 2180'FEL Section 13, T-26-N, R-9-W

San Juan County, New Mexico

Latitude 36° 29.1, Longitude 107° 44.3

Formation: Basin Fruitland Coal

Elevation: 6273'GL

Formation:	Top	Bottom	Contents
Surface	Nacimiento	1202'	
Ojo Alamo	1202'	1309'	aquifer
Kirtland	1309'	1701'	
Fruitland	1701'	1986'	
Fruitland Coal	1843'	1986′	
Pictured Cliffs	1986'		
Total Depth	2250'		

Logging Program: Mud logs: 1700' to TD

Dens/Neut/Por; Density/Corr; Micro/GR; Numar MR: 1700-TD

Ind/SP/GR: to TD

#### Mud Program:

<u>Interval</u>	Type	Weight	Vis.	Flu	id Loss
0- 200'	Spud	8.4-8.9	40-50	no	control
200-2250'	Non-dispersed	8.4-9.5	30-60	no	control

#### Casing Program:

Hole Size	Depth Interval	Csg.Size	Wt.	Grade
12 1/4" 7 7/8"	0 - 200' 0 - 2250'	8 5/8" 4 1/2"	24.0# 10.5#	
Tubing Program:	0 - 2250'	2 3/8"	4.7#	J-55

Float Equipment: 8 5/8" surface casing - saw tooth guide shoe. Centralizers will be run in accordance with Onshore Order #2.

4 1/2" production casing - float shoe on bottom. Three centralizers run every other joint above shoe. Two centralizers run every 3rd joint to the base of the Ojo Alamo @ 1309'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 1309'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

Wellhead Equipment: 8 5/8" x 4 1/2" x 2 3/8" x 11" 2000 psi xmas tree assembly.

#### Page 2 McConnell #500

#### Cementing:

8 5/8" surface casing - cement with 235 sx Class "B" cement with 1/4# flocele/sx and 3% calcium chloride (298 cu.ft. of slurry, 200% excess to circulate to surface). WOC 12 hrs. Test casing to 600 psi/30 minutes.

4 1/2" production casing - Lead w/518 sx of 65/35 Class "B" Poz w/6% gel, 2% calcium chloride, and 1/4# flocele/sx. Tail w/100 sx Class "B" w/2% calcium chloride (1002 cu.ft. of slurry, 75% excess to circulate to surface). WOC 12 hrs. If cement does not circulate to surface, a temperature log will be run after 8 hours to determine TOC.

#### BOP and tests:

Surface to TD - 11" 2000 psi (minimum double gate BOP stack (Reference Figure #1 and #2). Prior to drilling out surface casing, test rams to 600 psi/30 min.

Completion - 6" 2000 psi (minimum) double gate BOP stack (Reference Figure #2). Prior to completion operations, test rams and casing to 2000 psi/15 min.

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

Pipe rams will be actuated to 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.

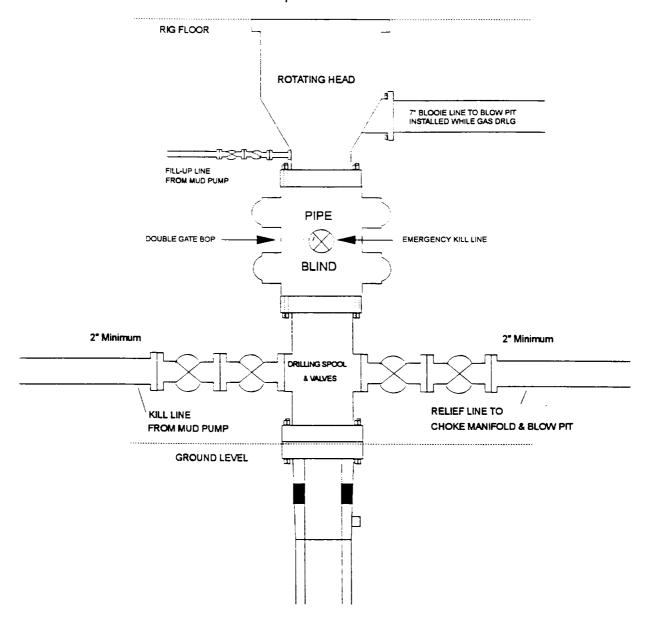
#### Additional information:

- \* The Fruitland Coal formation will be completed.
- \* Anticipated pore pressure for the Fruitland is 300 psi.
- \* This gas is dedicated.
- \* The east half of the section is dedicated to this well.
- \* New casing will be utilized.
- \* Pipe movement (either rotation or reciprocation) will be done if hole conditions permit.

#### MERIDIAN OIL INC.

### **BOP Configuration**

#### 2M psi SYSTEM

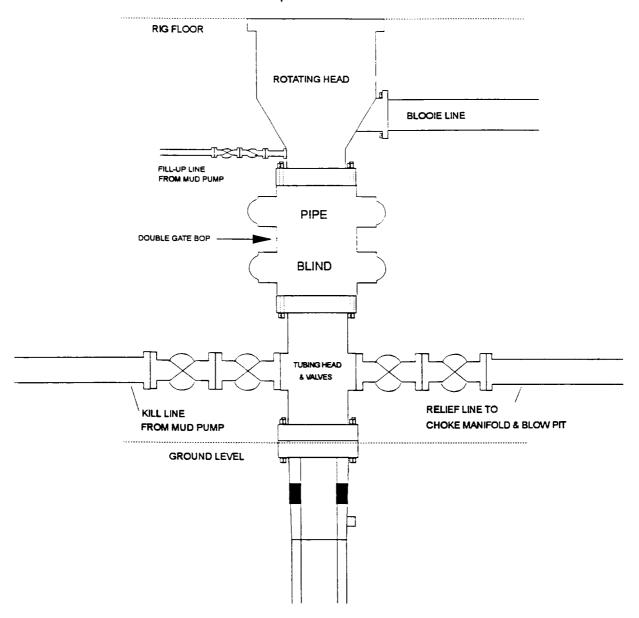


11" Bore, 2000psi minimum working pressure double gate BOP to be equipped with blind and pipe rams. A Schaffer Type 50 or equivalent rotating head to be installed on the top of the BOP. All equipment is 2000psi working pressure/or greater.

### MERIDIAN OIL INC.

#### **BOP** Configuration

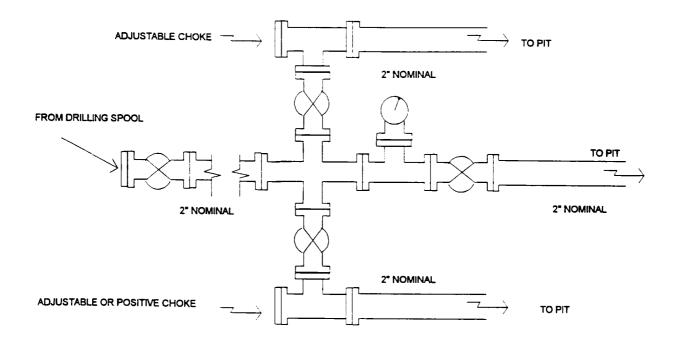
### 2M psi SYSTEM



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.

### MERIDIAN OIL INC.

# Choke Manifold Configuration 2M System



Minimum choke manifold installation from surface to Total Depth. 2" minimum, 3000psi working pressure equipment with two chokes.



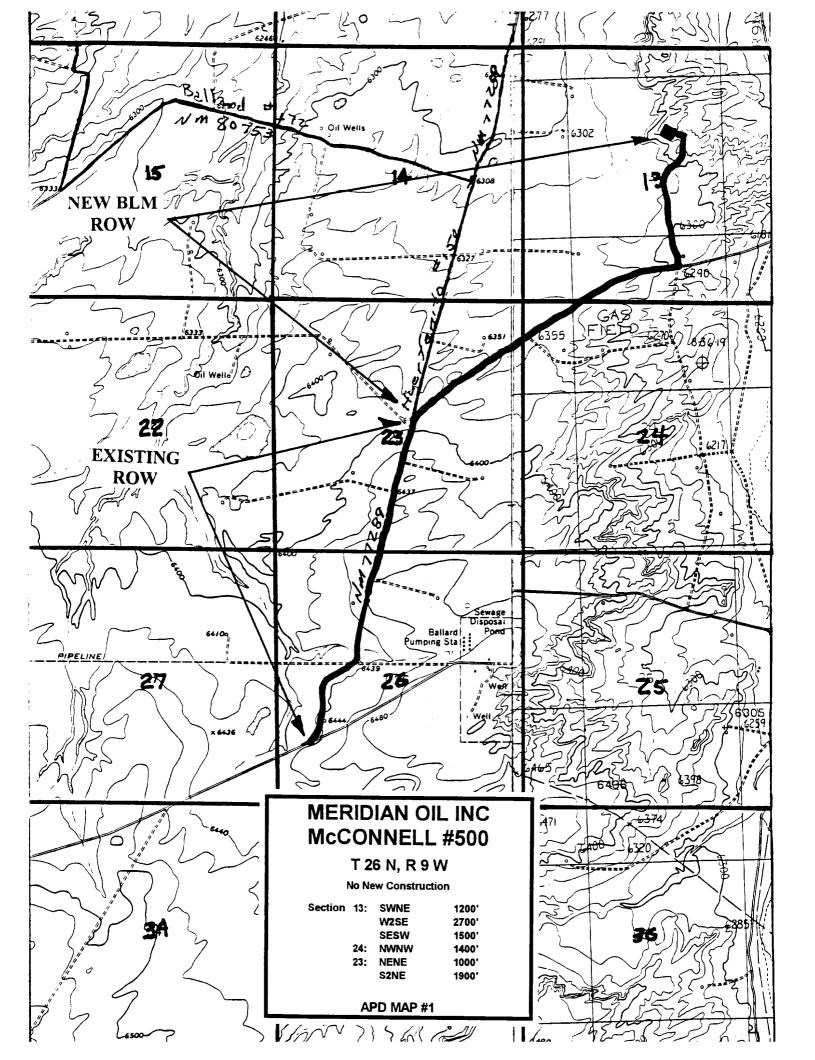
- 1. Existing Roads Refer to Map No. 1. Existing roads used to access the proposed location will be properly maintained for the duration of the project. Bureau of Land Management right-of-way has been applied for as shown on Map No. 1.
- 2. Planned Access Road Refer to Map No. 1. None required.
- 3. 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 Huerfano Unit Water Well #1 located SE Section 13, T-26-N,R-10-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 guarry.
- 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. Reserve pits will be lined as needed with either 12 mil bio-degradable plastic liner or a bentonite 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.

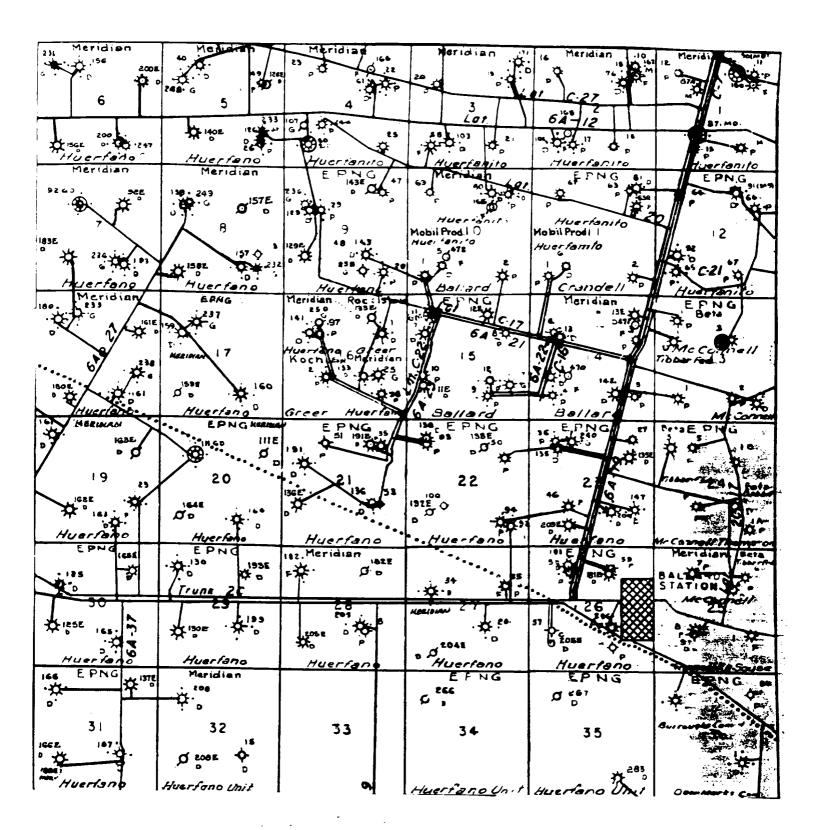
- Plans for Restoration of the Surface After completion of the proposed project, the location will be cleaned and leveled. The location will be left in such a condition that will enable reseeding operations to be carried out. Seed mixture as designated by the responsible government agency will be used. 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

Date

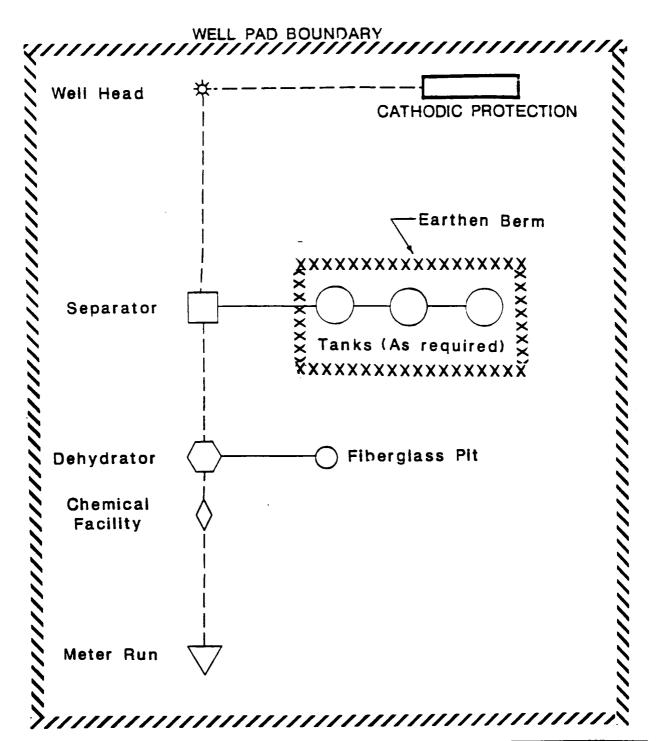
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MERIDIAN OIL INC.
Pipeline Map
T-26-N, R-09-W
Rio Arriba County, New Mexico

MRP # 1A MC CONNELL #500



PLAT #1

# MERIDIAN OIL

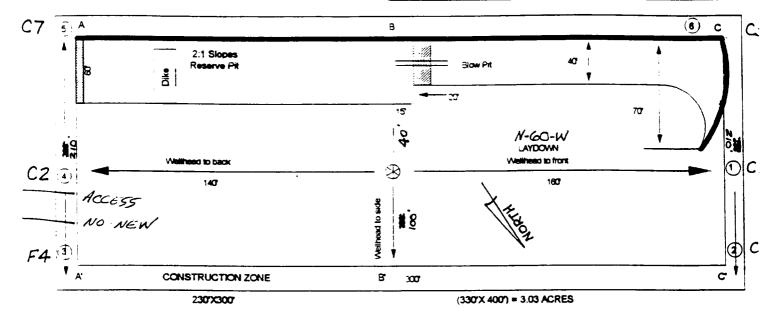
ANTICIPATED
PRODUCTION FACILITIES
FOR A
FRUITLAND WELL

KFR 2/90

PLAT#1

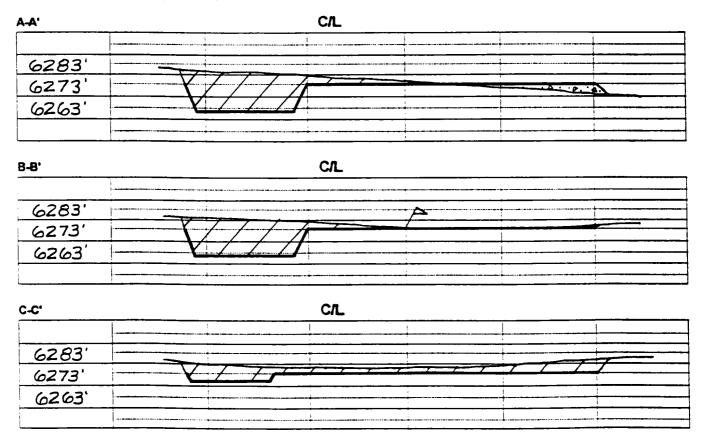
PC/FC LOW POTENTIAL

NAME: M.C. CONNELL #500
FOOTAGE: 1780' FNL, 2180' FEL
SEC 13 TWN 26 N.R 9 W NMPM
CO: SAN JUAN ST. NEW MEXICO
ELEVATION: 6273' DATE: 9-26-95



Reserve Pit Dike : to be 8' 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.



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.

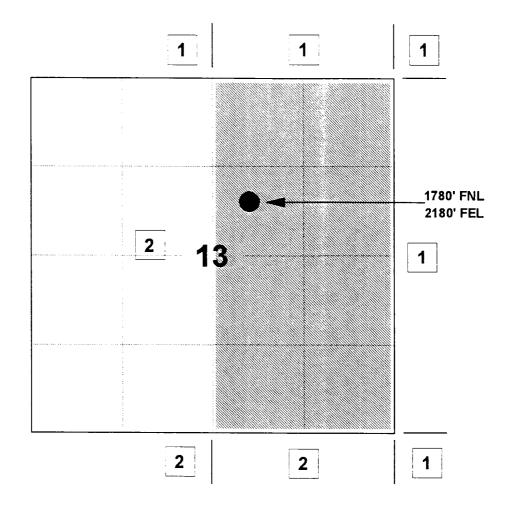
# **MERIDIAN OIL INC**

## McCONNELL #500

#### **OFFSET OPERATOR \ OWNER PLAT**

**Unorthodox Fruitland Coal Well Location** 

Township 26 North, Range 9 West



) Margaret Doris McConnell	600 N. Broadway, Hobart, OK, 7365
O. J. Lilly	1906 Rock Creek Dr., Round Rock, TX 78664
Barbara Ann Bruss	Sunwest Bank Trust Dept., PO Box 25500, Albuquerque, NM 87125
Barbara i. McConnell	Sunwest Bank Trust Dept., PO Box 25500, Albuquerque, NM 87125
-	

Re: McConnell #500

1780'FNL, 2180'FEL Section 13, T-26-N, R-9-W - San Juan County, New Mexico API # 30-045-(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.

Margaret Doris McConnell 600 N. Broadway Hobart, OK 73651

O. J. Lilly 1906 Rock Creek Drive Round Rock, TX 78664

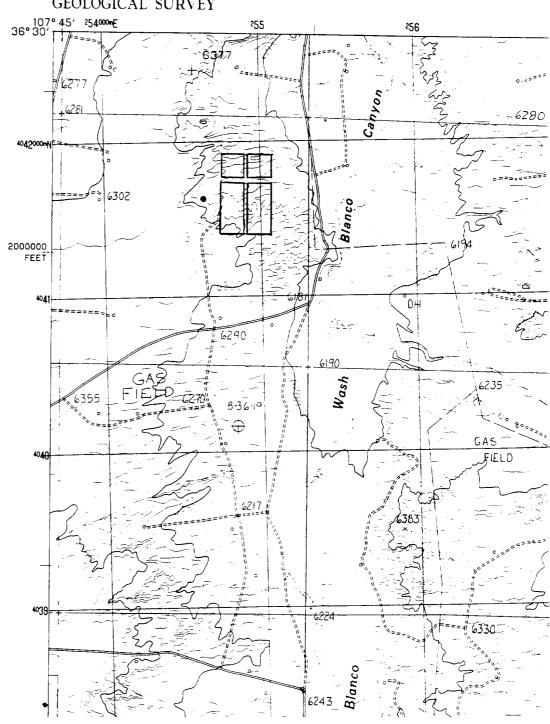
Barbara Ann Bruss Sunwest Bank Trust Dept PO Box 25500 Albuquerque, NM 87125

Barbara I. McConnell Sunwest Bank Trust Dept PO Box 25500 Albuquerque, NM 87125

Peggy A. Bradfield

Regulatory/Compliance Representative

# UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY



# UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

