APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
DRILL

1b. TYPE OF WELL
GAS

5. LEASE NUMBER
SF-047019A

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
SUMMIT VILES

9. WELL NO.
500

4. LOCATION OF WELL
1825'FNL 1100'FEL

10. FIELD,POOL,OR WILDCAT
BASIN FRUITLAND COAL

11. SEC. T. R. M OR BLK.
H SEC. 33 T29N R11W NMPM

14. DISTANCE IN MILES FROM NEAREST TOWN
1 MILE S. OF BLOOMFIELD

12. COUNTY
SAN JUAN

13.STATE
NM

15. DISTANCE FROM PROPOSED LOCATION 1100'
TO NEAREST PROPERTY
OR LEASE LINE.

16. ACRES IN LEASE

17. ACRES ASSIGNED TO WELL
N/320.00

18. DISTANCE FROM PROPOSED LOCATION
TO NEAREST WELL DR. 400'
COMPL., OR APPLIED
FOR ON THIS LEASE.

19. PROPOSED DEPTH
1654'

20. ROTARY OR CABLE TOOLS
ROTARY

21. ELEVATIONS (DF, FT, GR, ETC.)
5561'GL

22. APPROX. DATE WORK WILL START

23. PROPOSED CASING AND CEMENTING PROGRAM

*SEE OPERATIONS PLAN

24. AUTHORIZED BY: _____
REG. DRILLING ENGR.

9-17-90
DATE

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

NOTE: THIS FORMAT IS ISSUED IN LIEU OF US BLM FORM 3160-3.

Hold C-104 - Pool Change Summit #6E & Summit Viles #5 wells

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

Form C-102
Revised 1-1-89

# OIL CONSERVATION DIVISION

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

## WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

| Operator | Lease | Well No. |
|---|---|---|
| Meridian Oil Inc. | Summit Viles (SF-047019A) | 500 |

| Unit Letter | Section | Township | Range | County |
|---|---|---|---|---|
| H | 33 | 29 North | 11 West NMPM | San Juan |

Actual Footage Location of Well:
1825 feet from the North line and 1100 feet from the East line

| Ground level Elev. | Producing Formation | Pool | Dedicated Acreage: |
|---|---|---|---|
| 5561' | Fruitland Coal | Basin | 320 Acres |

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

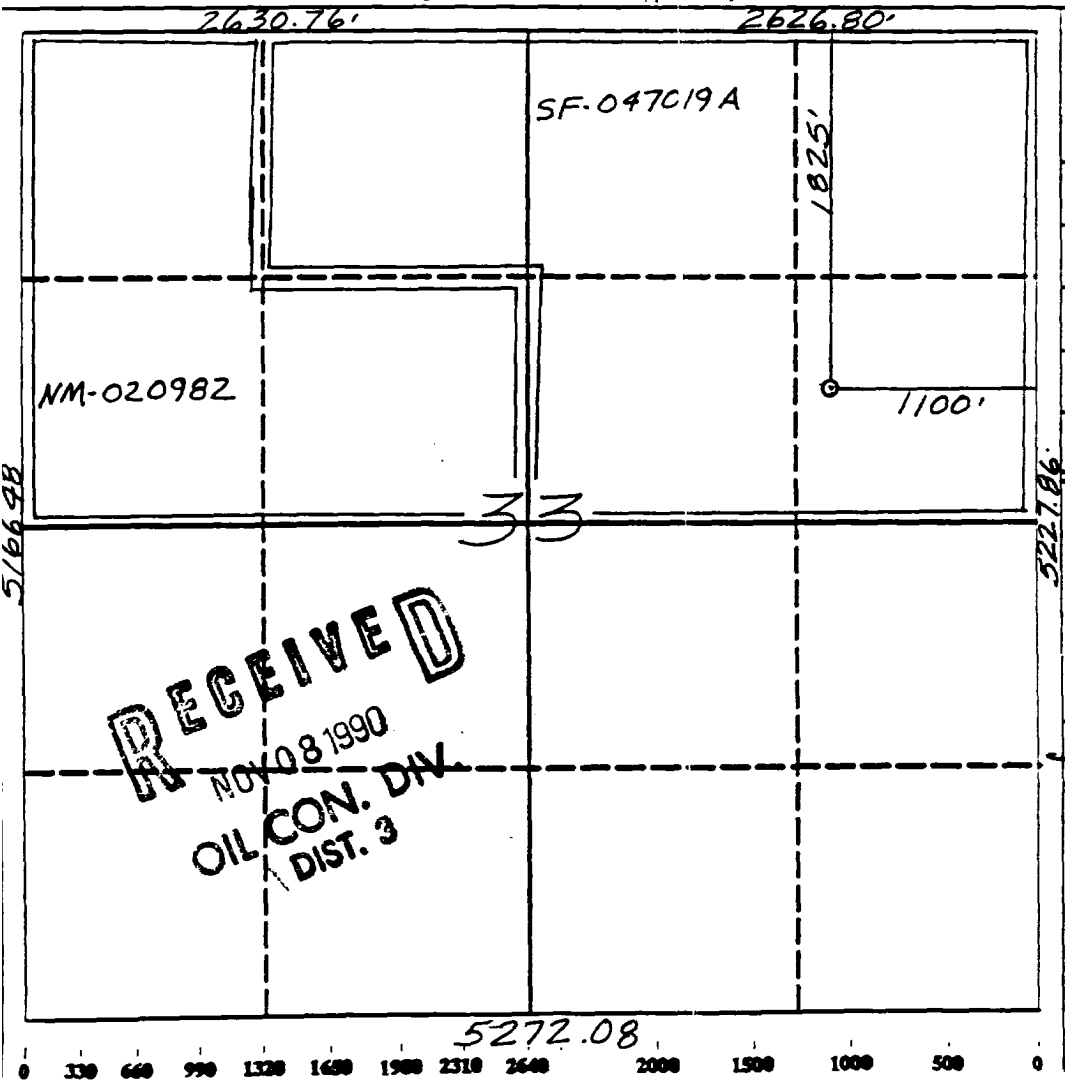
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

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 communitization agreement will be obtained

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.




RECEIVED
NOV 08 1990
OIL CON. DIV.
DIST. 3

### OPERATOR CERTIFICATION

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

Signature: Peggy Bradfield

Printed Name: Regulatory Affairs

Position: Meridian Oil Inc.

Company:

Date: 9-17-90

### SURVEYOR CERTIFICATION

*I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.*

Date Surveyed: 8-13-90

Signature & Seal of Professional Surveyor

NEW MEXICO
6857
REGISTERED LAND SURVEYOR

6857

Certificate No. Neale C. Edwards

OPERATIONS PLAN DATE: SEP 13,1990

Well Name: 500 SUMMIT VILES 1825'FNL 1100'FEL
Sec. 33 T29N R11W SAN JUAN NEW MEXICO
BASIN FRUITLAND COAL Elevation 5561'GL

Formation tops: Surface- NACIMIENTO
Ojo Alamo- 477
Kirtland- 594
Fruitland- 1339
Fruitland Coal Top- 1504
Fruitland Coal Base- 1644 Total Depth- 1654
Pictured Cliffs- 1646

Logging Program: Mud logs from 1339 to total depth.

| Mud Program: | Interval | Type | Weight | Visc. | Fl. Loss |
|---|---|---|---|---|---|
| | 0 - 200 | Spud | 8.4 - 8.9 | 40-50 | no contro |
| | 200 - 1654 | Non-dispersed | 8.4 - 9.5 | 30-60 | no contro |

| Casing Program: | Hole Size | Depth Interval | Csg. Size | Weight | Grade |
|---|---|---|---|---|---|
| | 12 1/4" | 0 - 200 | 8 5/8" | 24.0# | K-40 |
| | 7 7/8" | 0 - 1654 | 5 1/2" | 15.5# | K-55 |
| Tubing Program: | | 0 - 1654 | 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.

5 1/2" production casing - float shoe on bottom. Three centralizers run every other joint above shoe. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 594' . Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

Wellhead Equipment: 8 5/8" x 5 1/2" x 2 3/8" x 11" 3000 psi xmas tree assembl

Cementing:
8 5/8" surface casing - cement with 211 sacks of class "B" cement with 1/4# flocele/sack and 3% calcium chloride (248 cu ft. of slurry, 200% excess to circulate to surface). WOC 12 hours. Test casing to 600 psi for 30 minutes.

5 1/2" production casing - lead with 239 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. 579 cu ft. of slurry, 100% 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.

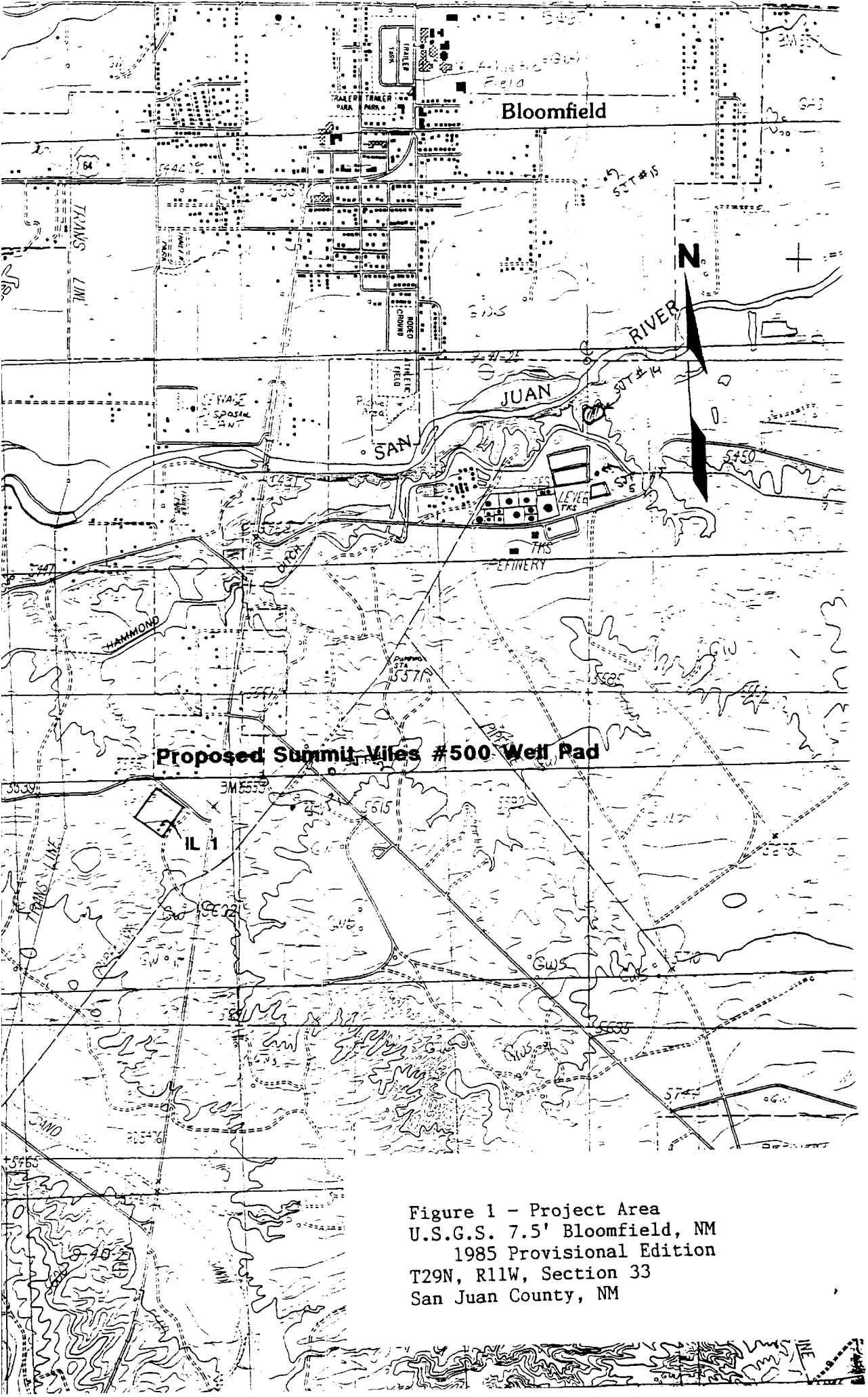



Figure 1 - Project Area
U.S.G.S. 7.5' Bloomfield, NM
1985 Provisional Edition
T29N, R11W, Section 33
San Juan County, NM