

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

30-045-28406
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL	5. LEASE NUMBER SF-047017-A
1b. TYPE OF WELL GAS	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 ANGEL PEAK B
4. LOCATION OF WELL 2150' FSL 1830' FWL	9. WELL NO. 500
14. DISTANCE IN MILES FROM NEAREST TOWN 2 MILES SE. OF BLOOMFIELD	10. FIELD, POOL, OR WILDCAT BASIN FRUITLAND COAL
	11. SEC. T. R. M OR BLK. K SEC. 13 T28N R11W NMPM
15. DISTANCE FROM PROPOSED LOCATION 1830' TO NEAREST PROPERTY OR LEASE LINE.	12. COUNTY SAN JUAN
16. ACRES IN LEASE 47.34	13. STATE NM
17. ACRES ASSIGNED TO WELL w/ 320.00	
18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL DR. 200' COMPL., OR APPLIED FOR ON THIS LEASE.	19. PROPOSED DEPTH 1887'
20. ROTARY OR CABLE TOOLS ROTARY	
21. ELEVATIONS (DF, FT, GR, ETC.) 5844' GL	22. APPROX. DATE WORK WILL START

23. RECEIVED PROPOSED CASING AND CEMENTING PROGRAM

NOV 08 1990

*SEE OPERATIONS PLAN

OIL CON. DIV.

24. AUTHORIZED BY:

REG. DRILLING ENGR.

9-17-90
DATE

PERMIT NO. APPROVAL DATE

APPROVED BY TITLE DATE OCT 09 1990

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

Hold c-104 for CA + ANGEL PEAK #17 pool change @

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

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

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

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

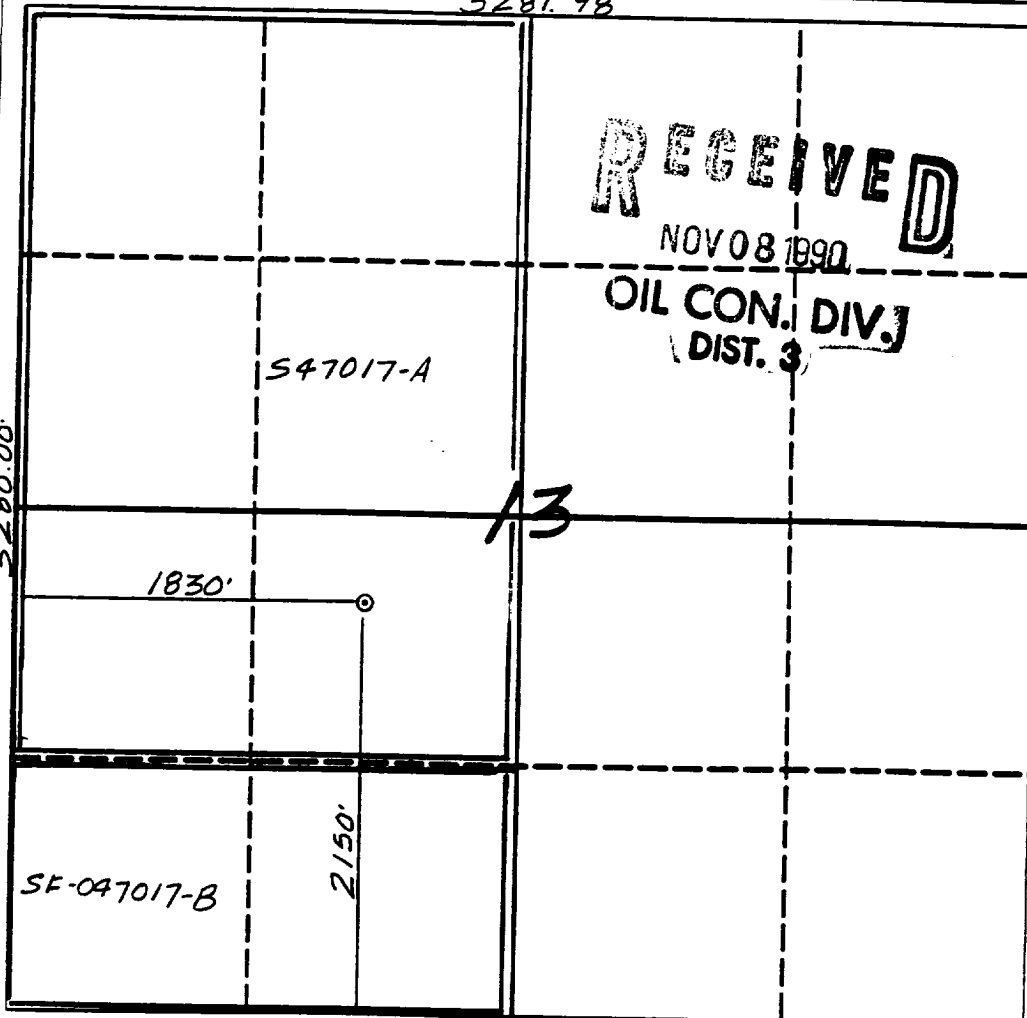
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator Meridian Oil Inc.			Lease Angel Peak B (SF-047017A)		Well No. 500
Unit Letter K	Section 13	Township 28 North	Range 11 West	County San Juan	
Actual Footage Location of Well: 2150 feet from the South line and 1830 feet from the West line					
Ground level Elev. 5844'		Producing Formation		Pool	
					Dedicated Acreage: Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hectare 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.



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 or 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.

8-16-90

Date Surveyed

Signature
Professional Surveyor



Certified by
Neale C. Edwards

Well Name: 500 ANGEL PEAK B
 Sec. 13 T28N R11W
 BASIN FRUITLAND COAL

2150'FSL 1830'FWL
 SAN JUAN NEW MEXICO
 Elevation 5844'GL

Formation tops: Surface- NACIMIENTO

Ojo Alamo- 745
 Kirtland- 885
 Fruitland- 1617
 Fruitland Coal Top- 1702
 Fruitland Coal Base- 1877
 Pictured Cliffs- 1878

Total Depth- 1887

Logging Program: Mud logs from 1617 to total depth.

Mud Program:	Interval	Type	Weight	Visc.	Fl. Loss
	0 - 200	Spud	8.4 - 8.9	40-50	no contro
	200 - 1887	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 - 1887	5 1/2"	15.5#	K-55
Tubing Program:		0 - 1887	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.

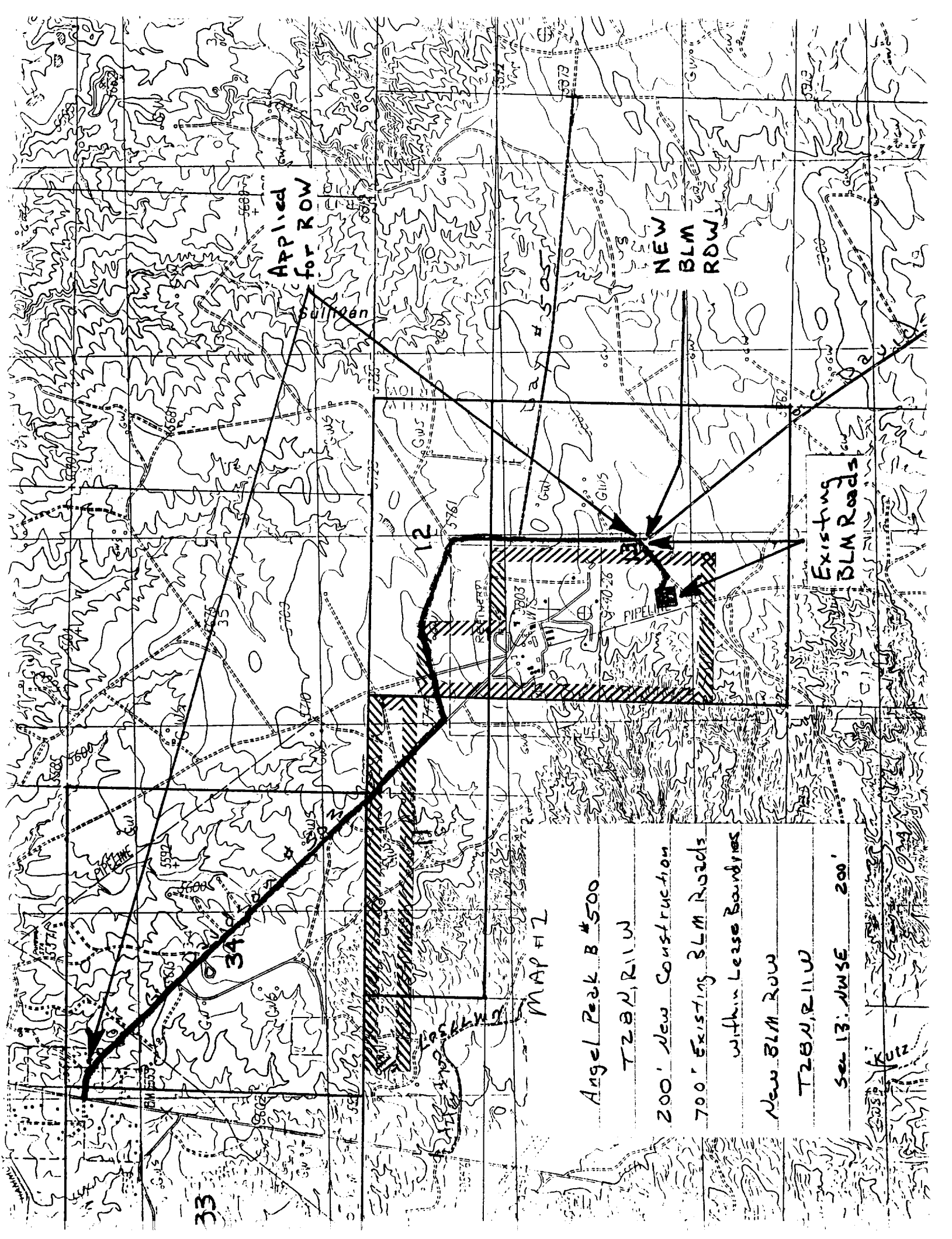
5 1/2" production casing - float shoe on bottom. Three centralizers run every other joint above shoe. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 885'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

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

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 281 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. 660 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.



Applied
for ROW

NEW
BLM
ROW

Existing
BLM Roads

MAP #12

Angel Peak B #500

T28N, R11W

200' New Construction

700' Existing BLM Roads
within Lease Boundaries

New BLM ROW

T28N, R11W

Sec 13: NWSE 200'

33