

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

30-039-24970
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL	5. LEASE NUMBER SF-078773
1b. TYPE OF WELL GAS	6. IF INDIAN, ALL. OR TRIBE NAME
2. OPERATOR MERIDIAN OIL INC. 14538	7. UNIT AGREEMENT NAME ROSA UNIT
3. ADDRESS & PHONE NO. OF OPERATOR P O BOX 4289 FARMINGTON, NM 87499	8. FARM OR LEASE NAME ROSA UNIT 7440
4. LOCATION OF WELL 950' FNL 2350' FEL	9. WELL NO. 268
14. DISTANCE IN MILES FROM NEAREST TOWN 13 miles navajo dam po	10. FIELD, POOL, OR WILDCAT BASIN FRUITLAND COAL 71629
15. DISTANCE FROM PROPOSED LOCATION 950' TO NEAREST PROPERTY OR LEASE LINE.	11. SEC. T. R. M OR BLK. 10 SEC. 33 T31N R05W NMPM
16. ACRES IN LEASE 17. ACRES ASSIGNED TO WELL 1920 320.00	12. COUNTY 13. STATE RIO ARRIBA NM
18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL DR. 4000' COMPL., OR APPLIED FOR ON THIS LEASE.	20. ROTARY OR CABLE TOOLS ROTARY
21. ELEVATIONS (DF, FT, GR, ETC.) 6510' GL	22. APPROX. DATE WORK WILL START

This action is subject to technical and
procedural review pursuant to 43 CFR 3165.3
and appeal pursuant to 43 CFR 3165.4.

DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS".

23. PROPOSED CASING AND CEMENTING PROGRAM

*SEE OPERATIONS

RECEIVED

24. AUTHORIZED BY: *[Signature]*

OCT 9 1990

REG. DRILLING ENGR. OIL CON. DIV
DIST. 3

7/18/90
DATE

PERMIT NO.

RECEIVED

APPROVAL DATE

APPROVED BY

OCT 18 1990

TITLE

DATE

OIL CON. DIV.

OCT 04 1990

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

NMOCD

Submit to Appropriate
District Office
State Leases - 4 copies
Fee Leases - 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

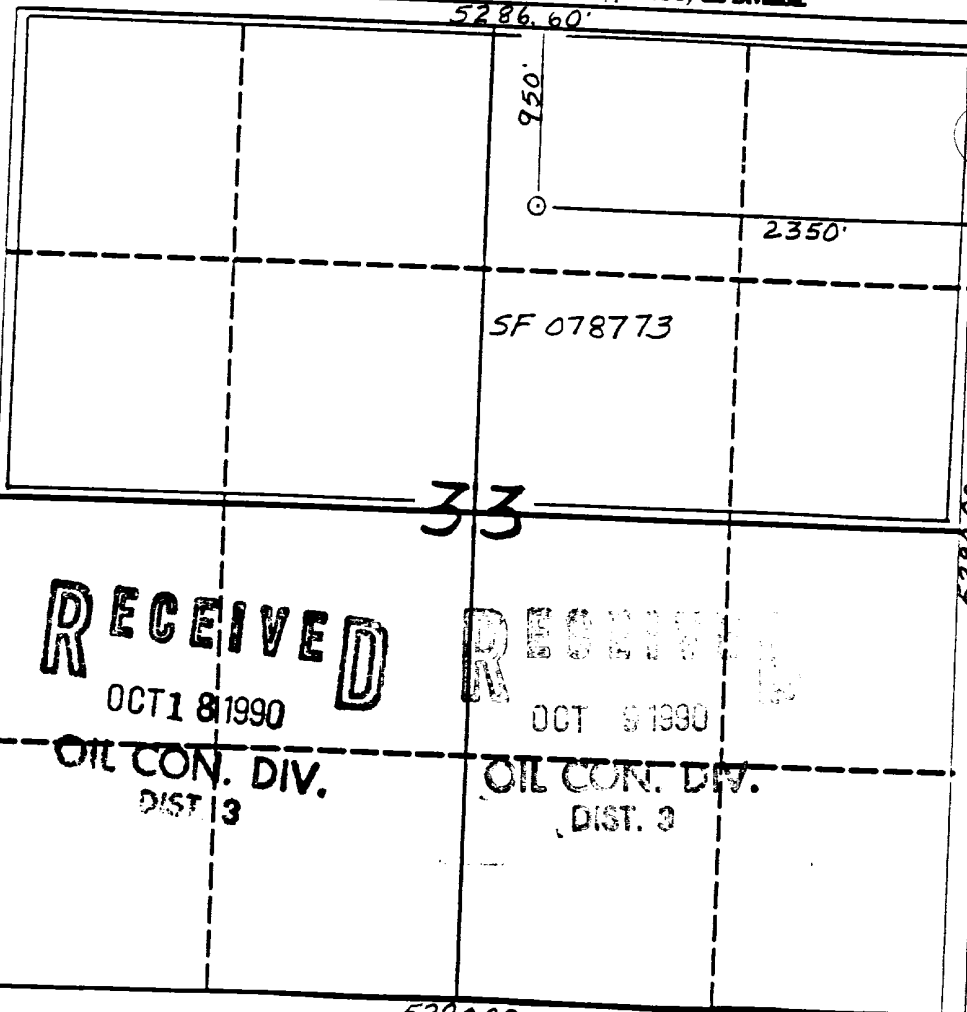
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator Meridian Oil Inc.			Lease Rosa Unit (SF-078773)	Well No. 268
Unit Letter B	Section 33	Township 31 North	Range 5 West	County Rio Arriba
Actual Footage Location of Well: 950 feet from the North line and 2350 feet from the East line				
Ground level Elev. 6510'		Producing Formation Fruitland Coal	Pool Basin	Dedicated Acreage: 320 Acres

- Outline the acreage dedicated to the subject well by colored pencil or machine marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- 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 unitization
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, force-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

7-18-90

Date

SURVEYOR CERTIFICATION

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

5-3-90

Date Surveyed

Signature

Professional



Certification

Neale C. Edwards

Well Name: 268 ROSA UNIT
 Sec. 33 T31N R05W
 BASIN FRUITLAND COAL

950' FNL 2350' FEL
 RIO ARriba NEW MEXICO
 Elevation 6510' GL

Formation tops: Surface- SAN JOSE
 Ojo Alamo- 2620
 Kirtland- 2800
 Fruitland- 3170
 Fruitland Coal Top- 3251
 Fruitland Coal Base- 3375
 Pictured Cliffs- 3384

Intermediate TD- 3211
 Total Depth- 3378

Logging Program: Mud logs from intermediate to total depth.

Mud Program:	Interval	Type	Weight	Visc.	Fl. Loss
	0 - 200	Spud	8.4 - 8.9	40-50	no control
	200 - 3211	Non-dispersed	8.4 - 9.1	30-60	no control
	3211 - 3378	Formation Water	8.4		no control

Casing Program:	Hole Size	Depth Interval	Csg. Size	Weight	Grade
	12 1/4"	0 - 200	9 5/8"	32.3#	H-40
	8 3/4"	0 - 3211	7"	20.0#	K-55
	6 1/4"	3161 - 3378	5 1/2"	15.5#	K-55
Tubing Program:		0 - 3378	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 @ 2800'. 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 160 sacks of class "B" cement with 1/4# flocele/sack and 3% calcium chloride (189 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 469 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. 1024 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.

