

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

30-039-25072

RECEIVED
MAIL ROOM

91 MAY 17 AM 7:50

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK SEE AREA
FILE

1a. TYPE OF WORK DRILL	5. LEASE NUMBER SF-078763
1b. TYPE OF WELL GAS	6. IF INDIAN, ALL. OR TRIBE NAME
2. OPERATOR MERIDIAN OIL INC.	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
4. LOCATION OF WELL 1685' FSL 2070' FWL	9. WELL NO. 245
10. FIELD, POOL, OR WILDCAT BASIN FRUITLAND COAL	11. SEC. T. R. M OR BLK. K SEC. 8 T31N R05W NMPM
14. DISTANCE IN MILES FROM NEAREST TOWN 26 MILES FROM GOBERNADOR	12. COUNTY RIO ARRIBA
15. DISTANCE FROM PROPOSED LOCATION 1685' TO NEAREST PROPERTY OR LEASE LINE.	13. STATE NM
16. ACRES IN LEASE	17. ACRES ASSIGNED TO WELL S/320.00
18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL DR. 1000' COMPL., OR APPLIED FOR ON THIS LEASE.	19. PROPOSED DEPTH 3119'
20. ROTARY OR CABLE TOOLS ROTARY	21. ELEVATIONS (DF, FT, GR, ETC.) 6281' GL
22. APPROX. DATE WORK WILL START	23. PROPOSED CASING AND CEMENTING PROGRAM
*SEE OPERATIONS PLAN	
24. AUTHORIZED BY:  REG. DRILLING ENGR.	25. MAY 23 1991 OIL CON. DIV. DIST. 3
DATE 5/10/91	

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

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

ARCH REPORT SUBMITTED 08/20/90

MAY 23 1991
AREA MANAGER

NMCO

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

State of New Mexico
Energy, Minerals and Natural Resources Department

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Form C-102
Revised 1-1-89

OIL CONSERVATION DIVISION

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

91 MAY 17 AM 7:50

FARMINGTON RESOURCE AREA
FARMINGTON, NEW MEXICO

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

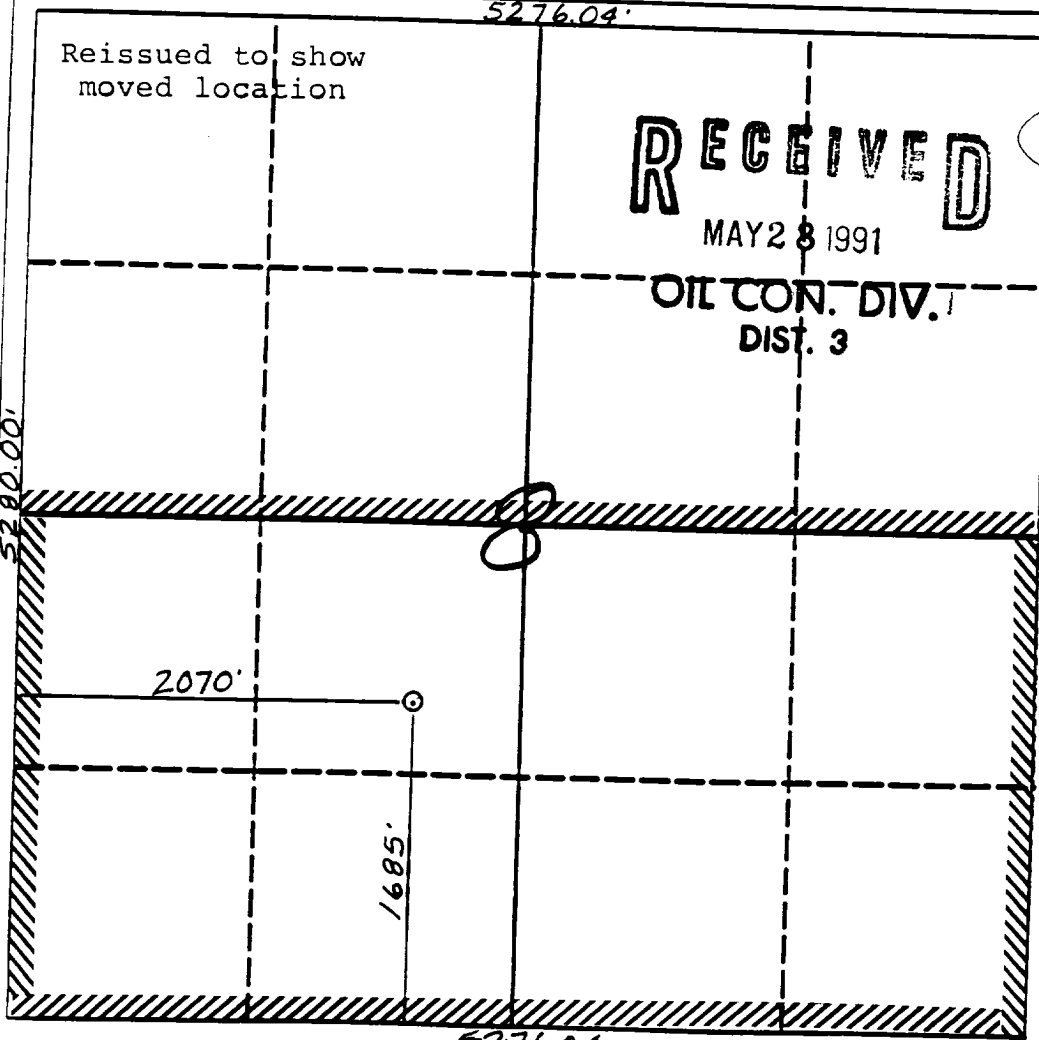
DISTRICT II
P.O. Drawer 00, Artesia, NM 88210

DISTRICT III
1000 Rio Brancos 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		Well No. 245
Unit Letter K	Section 8	Township 31 North	Range 5 West	County Rio Arriba	
Actual Footage Location of Well: 1685 feet from the South line and 2070 feet from the West line					
Ground level Elev. 6281'		Producing Formation Fruitland Coal 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.

Peggy Bradfield
Signature

Peggy Bradfield
Printed Name

Regulatory Affairs
Position

Meridian Oil Inc.
Company

5-6-91
Date

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.

7-20-90

Date Surveyed

Neale C. Edwards
Signature of Surveyor

NEW MEXICO
6857
6857
REGISTERED LAND SURVEYOR
Neale C. Edwards

Well Name: 245 ROSA UNIT
 Sec. 8 T31N R05W
 BASIN FRUITLAND COAL

1685' FSL 2070' FWL
 RIO ARRIBA NEW MEXICO
 Elevation 6281' GL

Formation tops: Surface- SAN JOSE
 Ojo Alamo- 2400
 Kirtland- 2508
 Fruitland- 2903
 Fruitland Coal Top- 2988
 Fruitland Coal Base- 3118
 Pictured Cliffs- 3112

Intermediate TD- 2968
 Total Depth- 3119

Logging Program: Mud logs from intermediate to total depth.

Mud Program:	Interval	Type	Weight	Visc.	Fl. Loss
	0 - 300	Spud	8.4 - 8.9	40-50	no control
	300 - 2968	Non-dispersed	8.4 - 9.1	30-60	no control
	2968 - 3119	Formation Water	8.4		no control

Casing Program:	Hole Size	Depth Interval	Csg. Size	Weight	Grade
	12 1/4"	0 - 300	9 5/8"	32.3#	H-40
	8 3/4"	0 - 2968	7"	20.0#	K-55
	6 1/4"	2918 - 3119	5 1/2"	15.5#	K-55
Tubing Program:		0 - 3119	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 @ 2508'. 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.

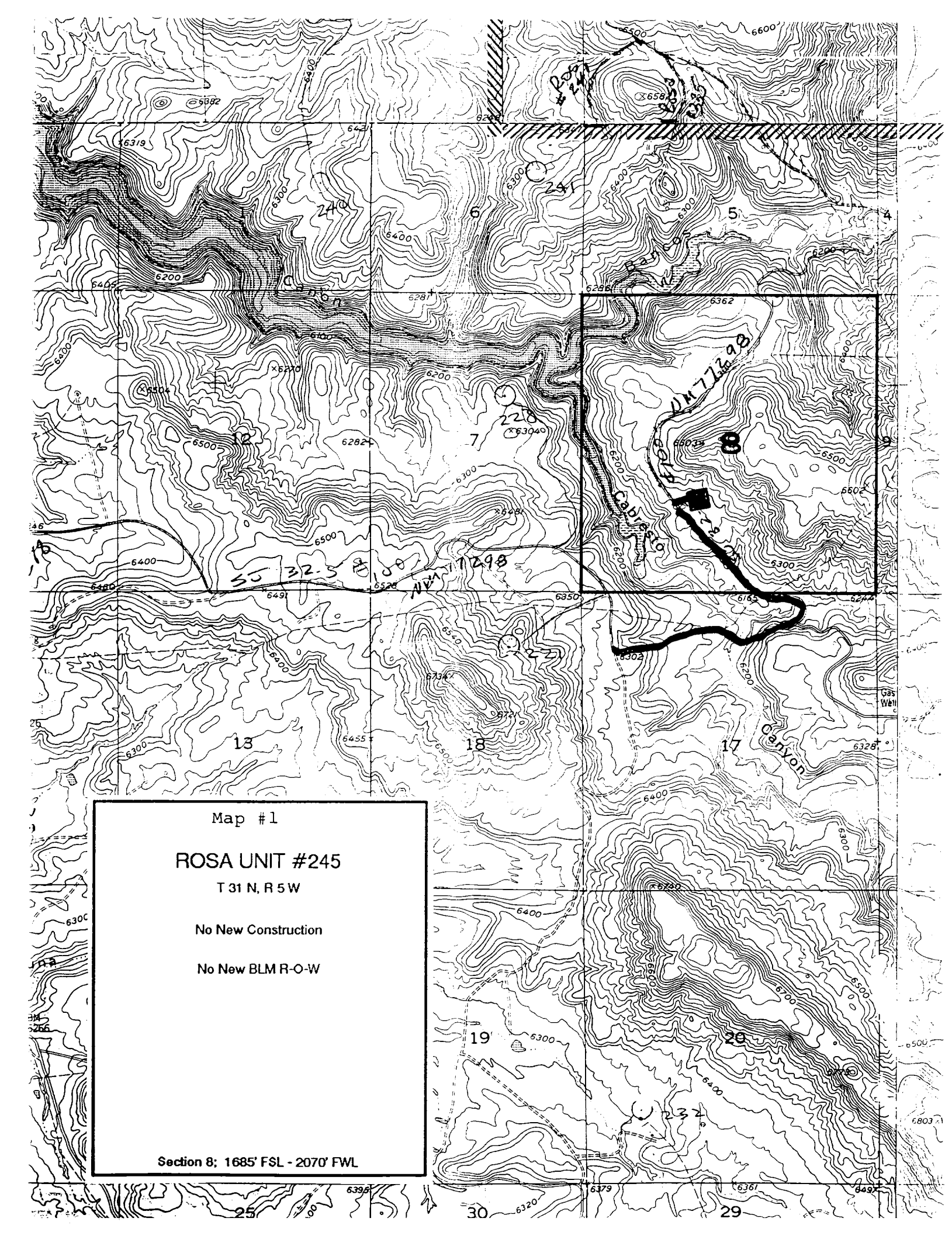
Wellhead Equipment: 9 5/8" x 7" x 2 7/8" x 11" 3000 psi xmas tree assembly.

Cementing:

9 5/8" surface casing - cement with 239 sacks of class "B" cement with 1/4# flocele/sack and 3% calcium chloride (282 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 432 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. 952 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.



Map #1

ROSA UNIT #245

T 31 N, R 5 W

No New Construction

No New BLM R-O-W

Section 8; 1685' FSL - 2070' FWL