

30-039-24844

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL 1b. TYPE OF WELL GAS 2. OPERATOR MERIDIAN OIL INC. 3. ADDRESS & PHONE NO. OF OPERATOR P O BOX 4289 FARMINGTON, NM 87499 4. LOCATION OF WELL 1870'FNL 1105'FEL	5. LEASE NUMBER SF-078679 SF-078768 6. IF INDIAN, ALL. OR TRIBE NAME 7. UNIT AGREEMENT NAME ROSA UNIT 8. FARM OR LEASE NAME ROSA UNIT 9. WELL NO. 251 10. FIELD, POOL, OR WILDCAT BASIN FRUITLAND COAL 11. SEC. T. R. M OR BLK. H SEC. 17 T31N R05W NMPM
14. DISTANCE IN MILES FROM NEAREST TOWN 18 MILES FROM NAVAJO DAM	12. COUNTY RIO ARRIBA 13. STATE NM
15. DISTANCE FROM PROPOSED LOCATION 1105' TO NEAREST PROPERTY OR LEASE LINE.	16. ACRES IN LEASE 2560.00 17. ACRES ASSIGNED TO WELL E/ 320.00 This action is subject to technical and procedural review, pursuant to 43 CFR 3185.3 and appeal pursuant to 43 CFR 3185.4.
18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL DR. 3000' COMPL., OR APPLIED FOR ON THIS LEASE.	19. PROPOSED DEPTH 3143' 20. ROTARY OR CABLE TOOLS ROTARY DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".
21. ELEVATIONS (DF, FT, GR, ETC.) 6302'GL	22. APPROX. DATE WORK WILL START

23. PROPOSED CASING AND CEMENTING PROGRAM

*SEE OPERATIONS

RECEIVED

24. AUTHORIZED BY: *[Signature]*

JUL 18 1990

REG. DRILLING ENGR. OIL CON. DIV.

6/1/90
DATE

DIST. 3

PERMIT NO. _____

APPROVAL DATE _____

APPROVED BY _____

TITLE _____

DATE _____

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

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 Rosa Unit (SF-078766 SR-078679)		Well No. 251
Unit Letter H	Section 17	Township 31 North	Range 5 West	County Rio Arriba	
Actual Footage Location of Well: 1870 feet from the North line and 1105 feet from the East line					
Ground level Elev. 6302'	Producing Formation Fruitland Coal		Pool Basin	Dedicated Acreage: 320 Acres	

- Outline the acreage dedicated to the subject well by colored pencil or hectare 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, 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, 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

6-1-90

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 my supervision, and that the same is true and correct to the best of my knowledge and belief.

4-10-90

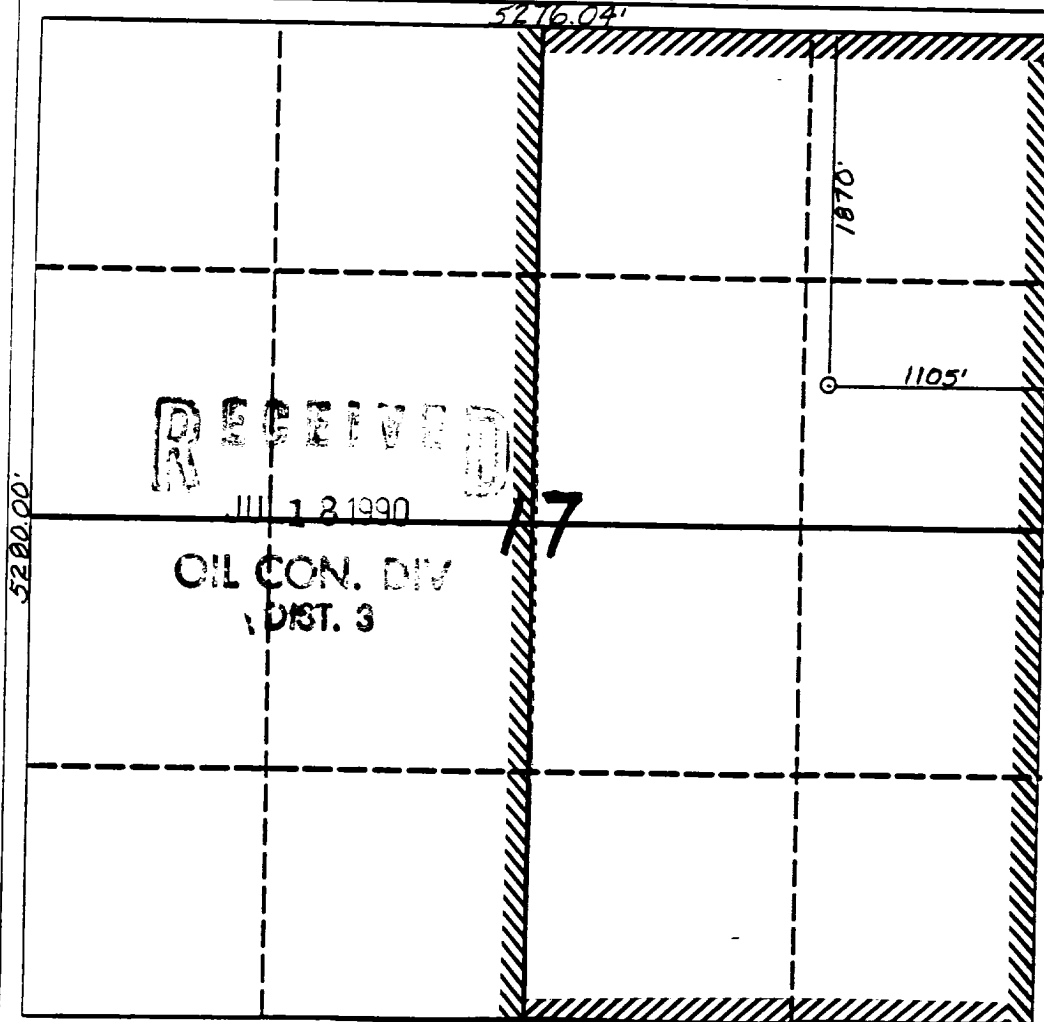
Date Surveyed

Signature of Surveyor Neale C. Edwards
Professional Surveyor



Certification

Neale C. Edwards



0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

Well Name: 251 ROSA UNIT
 Sec. 17 T31N R05W
 BASIN FRUITLAND COAL

1870' FNL 1105' FEL
 RIO ARRIBA NEW MEXICO
 Elevation 6302' GL

Formation tops: Surface- SAN JOSE

Ojo Alamo- 2426

Kirtland- 2530

Fruitland- 2920

Fruitland Coal Top- 3008

Fruitland Coal Base- 3142

Pictured Cliffs- 3144

Intermediate TD- 2988

Total Depth- 3143

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 contro.
	200 - 2988	Non-dispersed	8.4 - 9.1	30-60	no contro.
	2988 - 3143	Formation Water	8.4		no contro.

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 - 2988	7"	20.0#	K-55
	6 1/4"	2938 - 3143	5 1/2"	15.5#	K-55
Tubing Program:		0 - 3143	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 @ 2530'. 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.

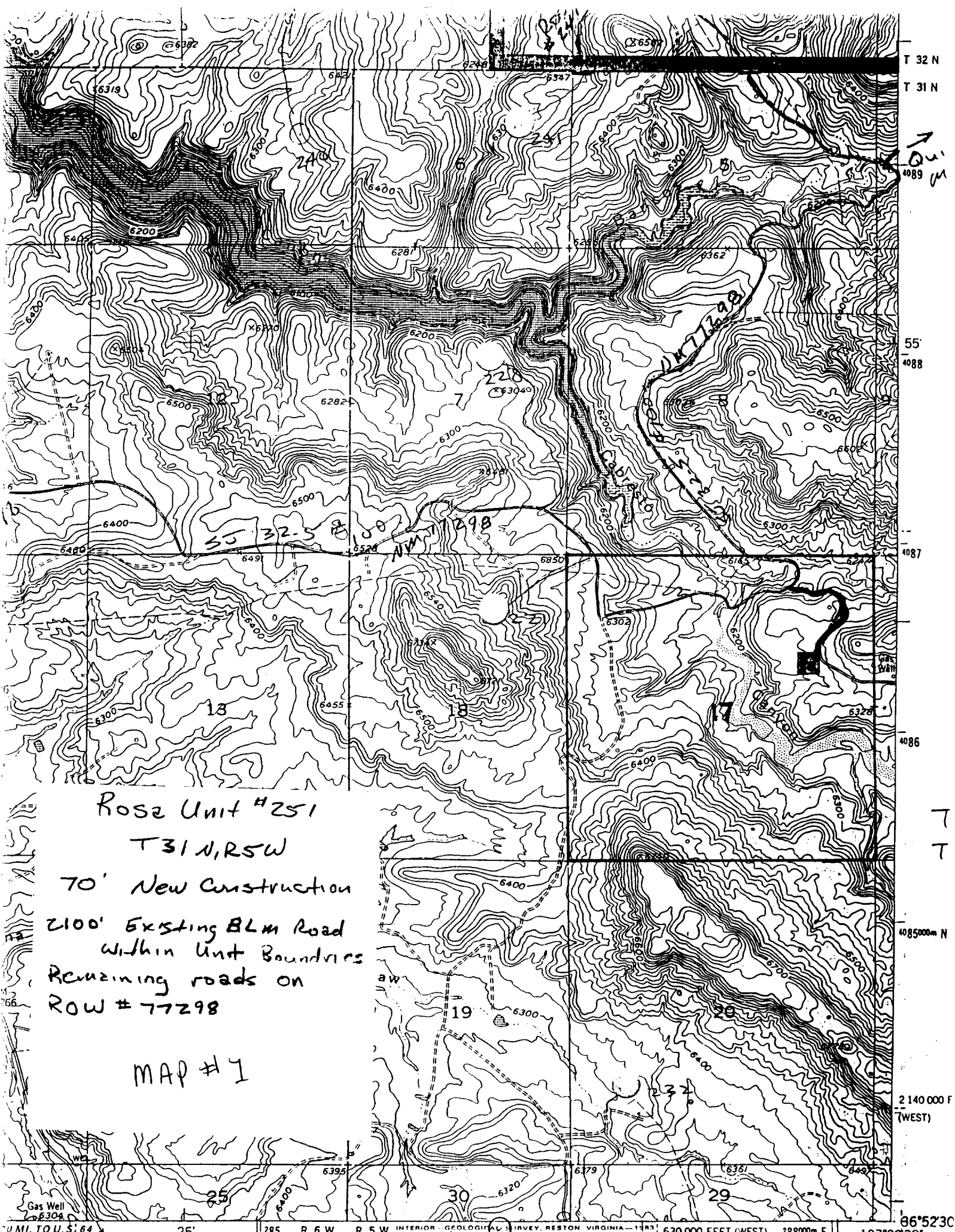
Wellhead Equipment: 9 5/8" x 7" x 2 7/8" x 11" 3000 psi xmas tree assembly.

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 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. 953 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.



Rose Unit #251

T 31 N, R 5 W

70' New Construction

2100' Existing BLM Road
Within Unit Boundaries
Remaining roads on
ROW # 77298

MAP #1