

NOV 03 1990

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CON. DIV.]

DIST. 3

PERMIT FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

30-039-25031

1a. TYPE OF WORK
DRILL

1b. TYPE OF WELL
GAS

2. OPERATOR
MERIDIAN OIL INC.
14538

3. ADDRESS & PHONE NO. OF OPERATOR
P O BOX 4289
FARMINGTON, NM 87499

4. LOCATION OF WELL
1900' FSL 900' FEL

5. LEASE NUMBER
SF-078772

6. IF INDIAN, ALL. OR TRIBE NAME

7. UNIT AGREEMENT NAME
ROSA UNIT

8. FARM OR LEASE NAME
ROSA UNIT 7440

9. WELL NO.
240

10. FIELD, POOL, OR WILDCAT
BASIN FRUITLAND COAL 71629

11. SEC. T. R. M OR BLK.
J SEC. 1 T31N R06W NMPM

14. DISTANCE IN MILES FROM NEAREST TOWN
15 MILES FROM NAVAJO DAM

12. COUNTY
RIO ARRIBA

13. STATE
NM

15. DISTANCE FROM
PROPOSED LOCATION 900'
TO NEAREST PROPERTY
OR LEASE LINE.

16. ACRES IN LEASE
2561.86

17. ACRES ASSIGNED TO WELL
303.88

18. DISTANCE FROM
PROPOSED LOCATION
TO NEAREST WELL DR. 4000'
COMPL., OR APPLIED
FOR ON THIS LEASE.

19. PROPOSED DEPTH
3187'

20. ROTARY OR CABLE TOOLS
ROTARY

21. ELEVATIONS (DF, FT, GR, ETC.)
6346' GL

22. APPROX. DATE WORK WILL START

23. PROPOSED CASING AND CEMENTING PROGRAM

*SEE OPERATIONS PLAN

24. AUTHORIZED BY: For Caldwell
REG. DRILLING ENGR.

DEC 3 1990

OIL CON. DIV.

DIST. 3

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

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

FOR

AREA MAN

OCT 04 1990
Ken Townsend

Hand C-104 FOR NSP (E) NMCCD

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-182
Revised 1-1-89

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

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 Meridian Oil Inc.			Lease Rosa Unit (SF-078772)			Well No. 240		
Unit Letter J	Section 1	Township 31 North	Range 6 West	County Rio Arriba				
Actual Footage Location of Well: 1900 feet from the South line and 900 feet from the East line =								
Ground level Elev. 6346'		Producing Formation Fruitland Coal		Pool Basin		Dedicated Acreage: 303.88 Acres		

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

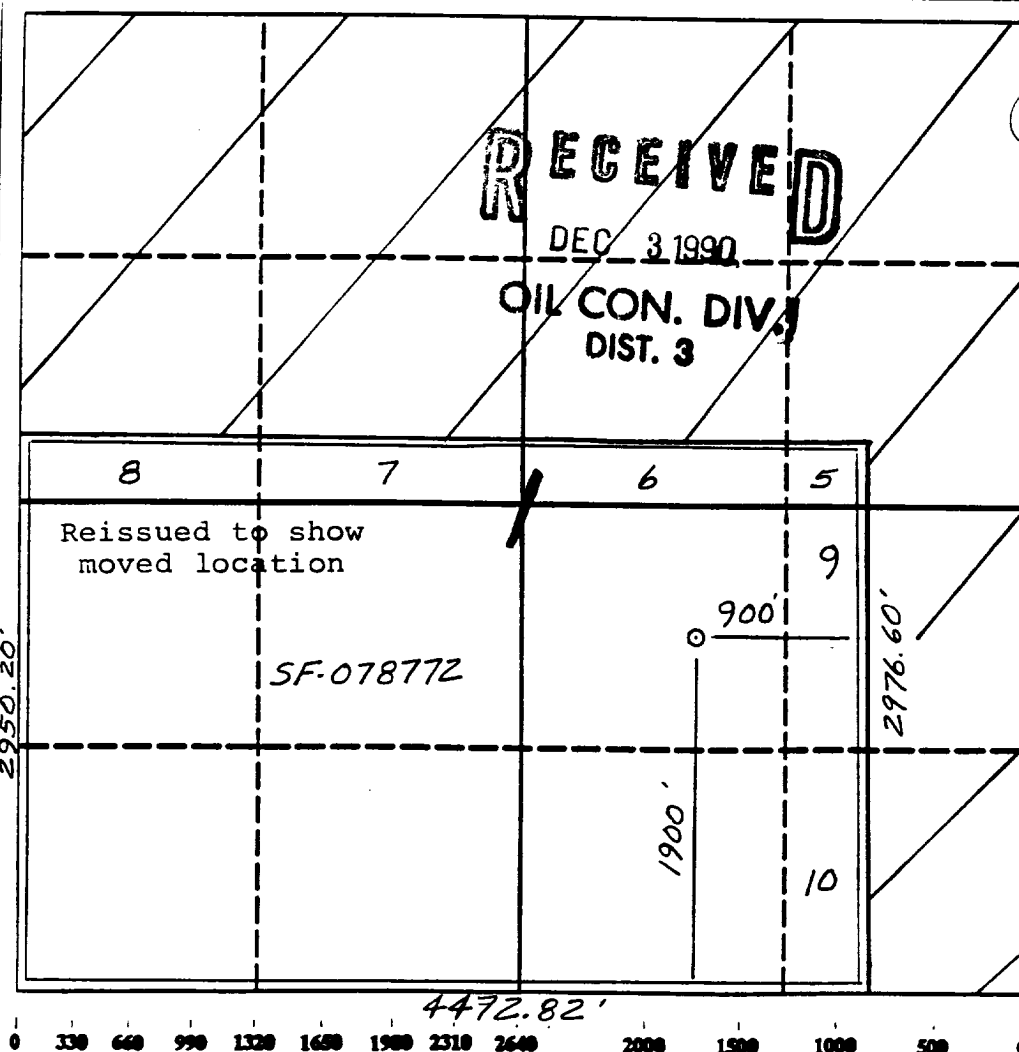
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

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 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

9-10-90

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.

12-7-89

Date Surveyed

Neale C. Edwards

Signature of Surveyor
Professional Surveyor

NEW MEXICO
6857
6857
REGISTERED LAND SURVEYOR

Certification of Surveyor
Neale C. Edwards

Well Name: 240 ROSA UNIT 1900'FSL 900'FEL
 Sec. 1 T31N R06W RIO ARRIBA NEW MEXICO
 BASIN FRUITLAND COAL Elevation 6346'GL

Formation tops: Surface- SAN JOSE
 Ojo Alamo- 2425
 Kirtland- 2530
 Fruitland- 2960
 Fruitland Coal Top- 3044 Intermediate TD- 3002
 Fruitland Coal Base- 3184 Total Depth- 3187
 Pictured Cliffs- 3191

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 - 3002	Non-dispersed	8.4 - 9.1	30-60	no control
	3002 - 3187	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 - 3002	7"	20.0#	K-55
	6 1/4"	2952 - 3187	5 1/2"	15.5#	K-55
Tubing Program:		0 - 3187	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.

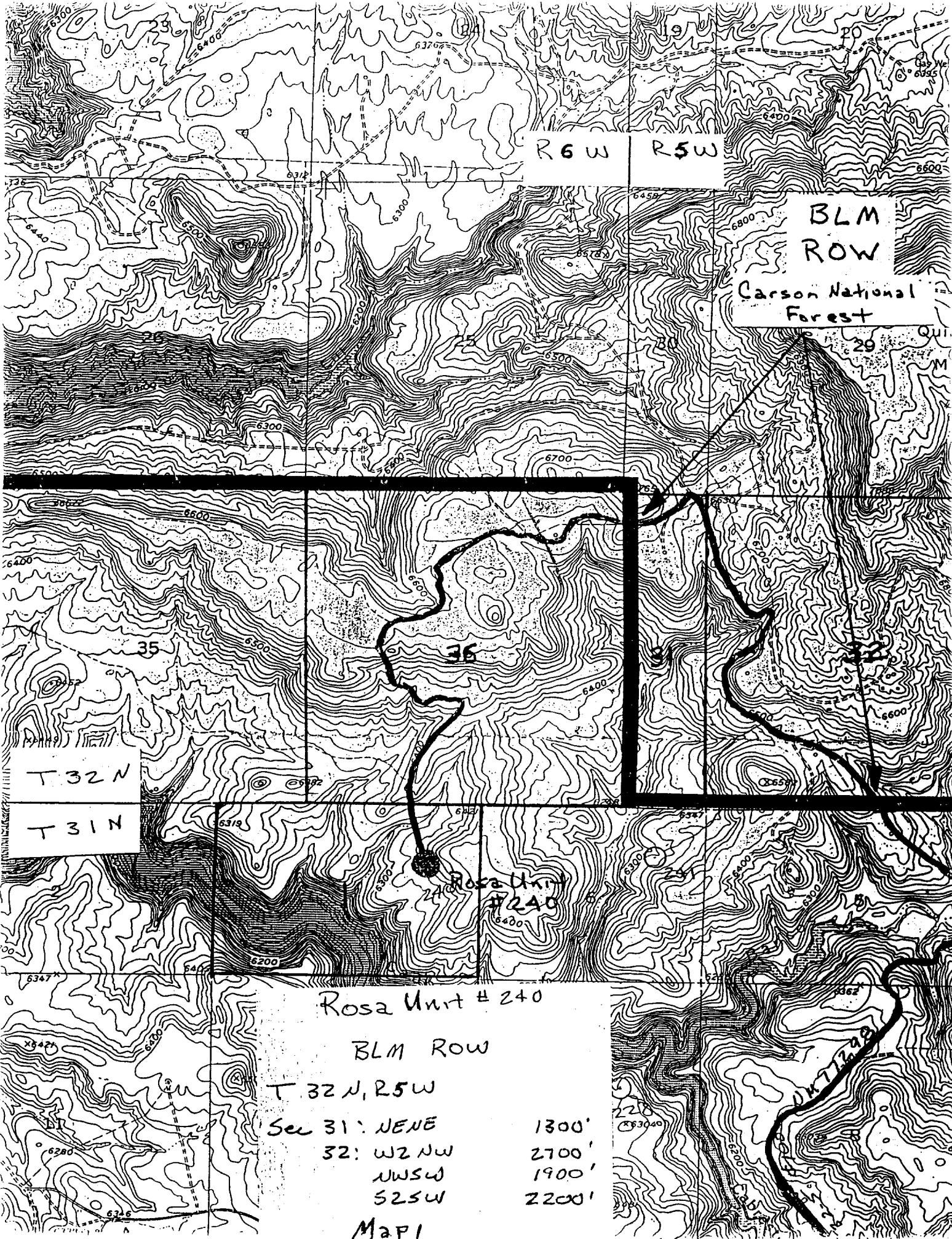
Wellhead Equipment: 9 5/8" x 7" x 2 7/8" x 11" 3000 psi xmas tree assembly.

Cementing:

9 5/8" surface casing - cement with 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 437 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. 963 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.



R6W

R5W

BLM
ROW

Carson National
Forest

T32N

T31N

Rosa Unit #240

BLM ROW

T32N, R5W

Sec 31: NENE

1300'

32: W2NW

2700'

NWSW

1900'

S2SW

2200'

Map 1