

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

RECEIVED
SEP 26 1990

5. LEASE NUMBER
SF-078772
6. IF INDIAN, ALL. OR TRIBE NAME

2. OPERATOR
MERIDIAN OIL INC. OIL CON. DIV.
DIST. 3

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
9. WELL NO.
329

4. LOCATION OF WELL
1950'FNL 1185'FEL

10. FIELD, POOL, OR WILDCAT
BASIN FRUITLAND COAL
11. SEC. T. R. M OR BLK.
SEC. 34 T32N R06W NMPM

14. DISTANCE IN MILES FROM NEAREST TOWN
28 MILES N. OF GOVERNADOR

12. COUNTY
RIO ARRIBA
13. STATE
NM

15. DISTANCE FROM
PROPOSED LOCATION 1185'
TO NEAREST PROPERTY
OR LEASE LINE.

16. ACRES IN LEASE 17. ACRES ASSIGNED TO WELL
256.86 E/ 320.00

18. DISTANCE FROM
PROPOSED LOCATION
TO NEAREST WELL DR. 263'
COMPL., OR APPLIED
FOR ON THIS LEASE.

19. PROPOSED DEPTH
3208'
20. ROTARY OR CABLE TOOLS
ROTARY

21. ELEVATIONS (DF, FT, GR, ETC.)
6436'GL

22. APPROX. DATE WORK WILL START

23. PROPOSED CASING AND CEMENTING PROGRAM

*SEE OPERATIONS PLAN

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

8/31/90
DATE

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

APPROVED
AS AMENDED

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

NMOCD

SEP 17 1990
AREA MANAGER

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

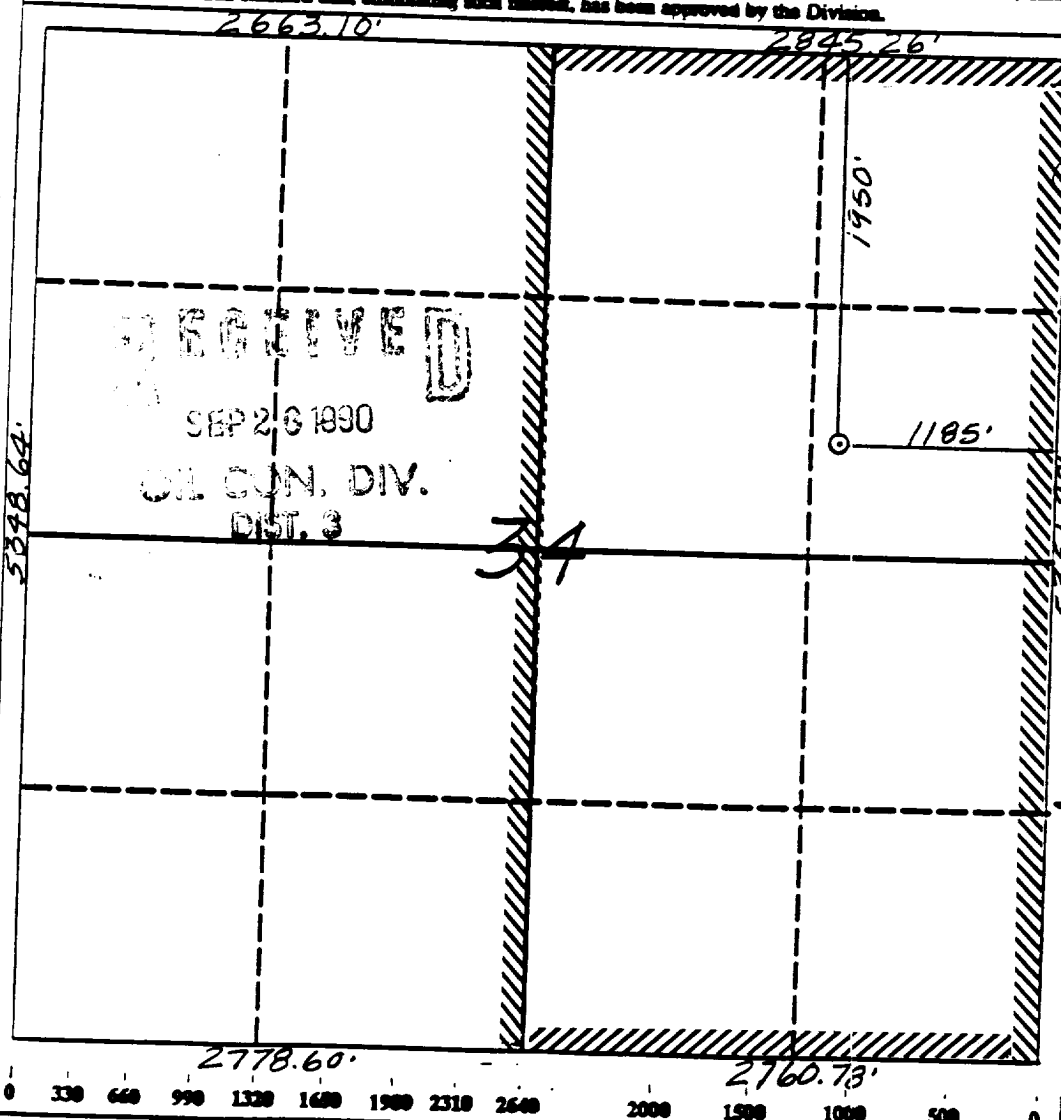
WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator Meridian Oil Inc.			Lease Rosa Unit (SF-078772)		Well No. 329
Unit Letter H	Section 34	Township 32 North	Range 6 West	County Rio Arriba	
Actual Footage Location of Well: 1950 feet from the North line and 1185 feet from the East line					
Ground level Elev. 6436		Producing Formation Fruitland Coal		Pool Basin	Dedicated Acreage: 320 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or lacquer 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 commutation, 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 commutation, 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
8-31-90

Date
8-31-90

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.

7-23-90

Date Surveyed

Signature Neale C. Edwards
Professional Surveyor



Certification
Neale C. Edwards

DATE: AUG 20, 1990

Well Name: 329 ROSA UNIT
 Sec. 34 T32N R06W
 BASIN FRUITLAND COAL

1950' FNL 1185' FEL
 RIO ARRIBA NEW MEXICO
 Elevation 6436' GL

Formation tops: Surface- SAN JOSE

Ojo Alamo- 2442
 Kirtland- 2552
 Fruitland- 3002
 Fruitland Coal Top- 3113
 Fruitland Coal Base- 3206
 Pictured Cliffs- 3213

Intermediate TD- 3063
 Total Depth- 3208

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 - 3063	Non-dispersed	8.4 - 9.1	30-60	no control
	3063 - 3208	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 - 3063	7"	20.0#	K-55
	6 1/4"	3013 - 3208	5 1/2"	15.5#	K-55
Tubing Program:		0 - 3208	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 @ 2552'. 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 445 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. 977 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.

Applied
for ROW

Existing BLM
Roads in Unit

Existing ROW

