UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Section is the second of the second

	APPLICATION FOR PERMIT TO DE	LIL DEEPEN, OR PLUG BACK
	TYPE OF WORK DRILL TYPE OF WELL OCT 2 5 1990	5. LEASE NUMBER SF-078766
1b.	GAS OIL CON.	SF-078766 36. 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 ALASS 9. WELL NO. 277
4.	LOCATION OF WELL 1930'FSL 1850'FWL	10. FIELD, POOL, OR WILDCAT BASIN FRUITLAND COAL 11. SEC. T. R. M OR BLK. SEC. 17 T31N R06W NMPM
14.	DISTANCE IN MILES FROM NEAREST TOW 9 MILES SOUTH OF ALLISON	IN 12. COUNTY 13.STATE RIO ARRIBA NM Sau lucus
15.	PROPOSED LOCATION 1850'	CRES IN LEASE 17. ACRES ASSIGNED TO WELL 1/320.00
18.	DISTANCE FROM 19. PR PROPOSED LOCATION TO NEAREST WELL DR. 7920' COMPL., OR APPLIED FOR ON THIS LEASE.	
21.	ELEVATIONS (DF, FT, GR, ETC.) 6409'GL	
23.	PROPOSED CASING AN	ID CEMENTING PROGRAM
	*SEE OPERATIONS	5 PLAN
24.	AUTHORIZED BY: REG. DRILLING ENG	9/11/93 DATE
PERM	IT NO APPRO	ALITOVED
APPRO	OVED BYTITLE	DATE AS AMENDED
NOTE:	: THIS FORMAT IS ISSUED IN LIEU OF	US BLM FORM 3160-3 AREA MANAGER
	E1995)	∰ Mid. Telefore H

Subsect to Appr District Office State Lease - 4 comes Foe Lease - 3 copies

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

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

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

DISTRICT II P.O. Drawer DD, Arlessa, NIM \$8210

DISTRICT III WELL LOCATION AND ACREAGE DEDICATION PLAT 1000 Rio Brizos Rd., Azzec, NM 87410 All Distances must be from the outer boundaries of the section Meridian Oil Inc. Rosa Unit (SF-078766) Unit Latter 17 31 North 6 West Actual Footage Location of Well: NMPM 1930 South 1850 feet from the line and Ground level Elev. Producing Formation foot from the 64091 Fruitland Coal Basin 1. Outline the acreege dedicated to the subject well by colored peacst or hackure 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 communication. X Yes If saswer is "yes" type of consolidation If manuar us "no" list t races and tract descriptions which have actually been conthis form of accountry. No allowable will be assigned to the well ustil all interests have been consolidated (by communication, unitization, forced-pooling, or otherwise) or until a non-etandard unit, eliminating such interest, has been approved by the Division. 1850 30

2000

1500

1000

500

330 660 990 1320 1650 1900 2310 2640

Vell No. 277 County San Juan

> West line ACTROCK

> > Acres

unitization

otidated. (Use severse ade of

OPERATOR CERTIFICATION I hereby certify that the inform

Peggy Bradfield

Regulatory Affairs

Position

Meridian Oil Inc. Company

Date

SURVEYOR CERTIFICATION

N I hereby certify that the well location show on this plat was plotted from field notes o actual surveys made by me or under m supervison, and that the same is true arc correct to the best of my knowledge and

belief. 4-27-90

WEXIC 685

adwards

DATE: SEP 10,1990

Well Name: 277 ROSA UNIT

1930'FSL 1850'FWL

Sec. 17 T31N R06W

RIO ARRIBA NEW MEXICO Elevation 6409'GL

BASIN FRUITLAND COAL

Formation tops: Surface- SAN JOSE

Ojo Alamo- 2370

Kirtland- 2485 Fruitland- 2989

Fruitland Coal Top- 3020 Intermediate TD- 2990 Fruitland Coal Base- 3222 Total Depth- 3223

Pictured Cliffs- 3225

Logging Program: Mud logs from intermediate to total depth.

Mud Program:	Interval 0 - 200 200 - 2990 2990 - 3223	Type Spud Non-dispersed		Visc. 40-50 30-60	Fl. Loss no control no control
	2990 - 3223	Formation Water	8.4		no control

Casing Program:	Hole Size 12 1/4" 8 3/4"	0 - 200 0 - 2990	7"	Weight 32.3# 20.0#	Grade H-40 K-55
	6 1/4"	2940 - 3223	5 1/2"	15.5#	K-55
Tubing Program:		0 - 3223	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 @ 2485' . 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 433 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. 954 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.

