UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

		~~
la.	TYPE OF WORK	5. LEASE NUMBER
lb.	DRILL TYPE OF WELL	SF-078772 6. IF INDIAN, ALL. OR TRIBE NAME
	GAS	, , , , , , , , , , , , , , , , , , , ,
2.	OPERATOR	7. UNIT AGREEMENT NAME
	MERIDIAN OIL INC.	ROSA UNIT
3.	ADDRESS & PHONE NO. OF OPERATOR	8. FARM OR LEASE NAME
	P O BOX 4289	ROSA UNIT COM
	FARMINGTON, NM 87499	9. WELL NO. 330
		330
4.	LOCATION OF WELL	10. FIELD, POOL, OR WILDCAT
	1520'FSL 1920'FWL	BASIN FRUITLAND COAL 11. SEC. T. R. M OR BLK.
		SEC. 34 T32N R06W NMPM
14.	DISTANCE IN MILES FROM NEAREST TOWN	12 COLINDA 13 CHAME
14.	32 MILES N. OF GOBERNADOR	RIO ARRIBA NM
1.5	DIGHTNAD DDAY	A THE RESIDENCE OF THE PARTY OF
15.	DROBOCED LOCKMION 15301	S IN LEASE 17. ACRES ASSIGNED TO WEL
	TO NEAREST PROPERTY	21 × 6 20,00
	OR LEASE LINE.	
18.		OSED DEPTH 20. ROTARY OR CABLE TOOLS
	PROPOSED LOCATION TO NEAREST WELL DR. 4500'	3135' ROTARY
	COMPL OR APPLIED THE DATE OF THE PROPERTY OF	454 655
		The state of the s
21.	and appeal pursuant to 43 CF ELEVATIONS (DF, FT, GR, ETC.)	77 5750.4.
	6373'GL	22. MINON. BILL WOME WILL DISE
23.	PROPOSED CASING AND	CEMENTING PROGRAM
	+app opposition	
	*SEE OPERATIONS F	LAN
	$\sim 1 \sqrt{1}$	
24.	AUTHORIZED BY: Maldrey	
	REG. DRILLING ENGR.	DATE DATE
		V 100000
PERM	MIT NO APPROVA	AL DATEAS AMERICA
APPR	ROVED BYTITLE	DATE ANH DO 1000
NOTE	: THIS FORMAT IS ISSUED IN LIEU OF U	IS BLM FORM 3160-374 A FORM
	مر	· / ···

Substant to Asse District Office State Lane - 4 come Fee Lane - 3 copies

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Review 1-1-29

DISTRICTI P.O. Box 1980, Hobbs, NM 88240

OIL CONSERVATION DIVISION P.O. Box 2088

DISTRICT II P.O. Down DD, Americ, NM \$2210

Santa Fe. New Mexico 87504-2088

DISTRICT III 1000 Rio Brans R4., Arise, NM 87410

339 660 990 1320 1680 1980 2310 2640

WELL LOCATION AND ACREAGE DEDICATION PLAT All Distances must be from the outer boundaries of the section Operator Well No. Meridian Oil Inc. Rosa Unit Com Usis Lesser 330 Towns Conney 34 32 North 6 West Rio Arriba Actual Footage Location of Well: NMPM 1520 South 1920 Count level Elev. feet from the West deline i commen 6373' Fruitland Coal Basin 320 age dedicated to the subject well by colored peace or hackure marks on the plat below. Acres 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 inserest of all owners been consolidated by communication, ☐ No If segments "yes" type of consolids <u>unitization</u> st and tract descriptions which have accurally been conscillated. (Use reverse and of good to the wed until all interests have been en isted (by communication, unitazioni, forced-moning, or otherwise) ing such interest, has been approved by the Division 2663.10. OPERATOR CERTIFICATION I hereby certify that the inform Peggy Bradfield Regulatory Affairs FEE SURVEYOR CERTIFICATION I hereby certify that the well local on this plat was plotted from field notes c SF-078772 supernson, and that the same is true an correct to the best of my knowledge are 1920. 8-6-90 WHEN'S 6857 2778.60 2760.78 wards

2000

1500

1000

500

0

DATE: SEP 11,1990

Well Name: 330 ROSA UNIT COM

1520'FSL 1920'FWL Sec. 34 T32N R06W RIO ARRIBA NEW MEXICO

BASIN FRUITLAND COAL

Elevation 6373'GL

Formation tops: Surface- SAN JOSE

Ojo Alamo- 2400 Kirtland- 2550

Fruitland- 2960

Fruitland Coal Top- 2995 Intermediate TD-Fruitland Coal Base- 3129 Total Depth-3135

Pictured Cliffs- 3141

Logging Program: Mud logs from intermediate to total depth.

Mud Program:	Interval 0 - 400	-	Weight 8.4 - 8.9	Visc. 40-50	Fl. Loss no control
	400 - 2955	Non-dispersed		30-60	no control
	2955 - 3135 Form	Formation Water	8.4		no control

Casing	Program:	Hole Size	Depth	Interval	Csg. Size	Weight	Grade
		12 1/4"	0	- 400	9 5/8"	32.3#	H-40
		8 3/4"	0	- 2955	7"	20.0#	K-55
		6 1/4"	2905	- 3135	5 1/2"	15.5#	K-55
Tubing	Program:		0	- 3135	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 @ 2550' . 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 319 sacks of class "B" cement with 1/4# flocele/sack and 3% calcium chloride (376 cu ft. of slurry, 200% excess to circulate to surface). WOC 12 hours. Test casing to 800 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.