30-039-24864

Form 3160-3 (November 1983) (fermerly 9-331C)

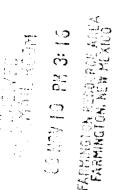
### (Other instructions on UNITED STATES

SUBMIT IN TRIPLICATE\* reverse side)

Form approved. Budget Bureau No. 1004-0136 Expires August 31, 1985

DEPARTMENT OF THE INTERIOR					5. LEASE PREIGNATIO	ON AND SERIAL NO.	
BUREAU OF LAND MANAGEMENT					SF-078767		
APPLICATIO	N FOR PERMIT T	O DRILL, I	DEEPEN, C	OR PLUC	3 BACK	6. IF INDIAN, ALLOTS	TEE OR TRIBE NAME
1a, Type of Work	ILL 🛚	DEEPEN [			BACK 🗌	7. UNIT AGREEMENT	NAME
b. TYPE OF WELL	AS CTV		SINGLE (		LTIPLE	Rosa Unit	NAME
WELL 2. NAJE OF OPERATOR	OTHER		ZONE L	<u>A</u> zo	NE L	Rosa Unit	
Morthwest P	meline cornorat	Oil to	u.			9. WELL NO.	
3, ADDRESS OF OPERATOR	perme sorpoved					#209	
35 <b>3</b> 9 Fast 30	Oth - Farmington	, NM 8740	)]			10. FIELD AND POOL, OR WILDCAT	
4. LOCATION OF WELL (F	deport location clearly and	in accordance wit		quirements.*)		Basin Fruitland Pool	
At surrace	13 <b>16</b> ' F <b>S</b> L & 13 <b>10</b>	'FMAL NE/	4 SW/4			11. SEC., T., R., M., O	R BLK.
At proposed prod. zo	Same					Sec. 24, T3	-
-	AND DIRECTION FROM NEAR		r office*			12. COUNTY OR PARIS	i
Approximate	ly 20 miles to G	obernador				Rio Arriba	New Mexico
16. DINTANCE FROM PROPOSED*  LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to pearest drig, unit line, if any)			2518.04		TO		72.02
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, BRILLING, COMPLETED, + 2500 + COMPLETED, + 2500 + COMPLETED, + 2500 + COMPLETED, + 2500 + COMPLETED, + COMP			70, 111111111111111111111111111111111111			ary or cable tools	
21. ELEVATIONS (Show wh	ether DF, RT, GR, etc.)					22, APPROX. DATE	WORK WILL START*
6316' GR 🔭	Littlem & Totally to a	Charles Report				3-1-89	· · · · · · · · · · · · · · · · · · ·
200. San D	and the second of the second	roposed clain	NG AND CEME	ENTING PRO	DRILLI OGRAM DRILLI OHAIE	ING OPERATIONS AU CT TO COMPLIANCE	THORIZED ARE
SIZE OF HOLE	SIZE OF CASING	WEIGHT PERFO	OOT SE	TTING DEPTH	* CEN	RAL REQUIREMENTS	MIN WITHCHEU
12-1/4"	9-5/8"	32#		200'	125	cu.ft.	foel
8-3/4"	7"	20#		2996'	145_	cu.ft.	your-
6-1/4"	5-1/2"	23#		3166'	0per	nhole complet	ioN
	i		1		1		

The S/2 of Section 24 is dedicated to this well.



AUG 0 8 1990 OIL CON. DIV.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

signed Dile Dolo	TITLE Sr. Engineer	DATE ALT 8-88
(This space for Federal or State office use)		AS ASA TOPS
PEKMIT NO.	APPROVAL DATE	APP 1990
CONDITIONS OF APPROVAL, IF ANY:	TITLE	DATE OF THE STATE
150	NMOCO	J. Controlled and

ch-l

Submit to Appa District Office State Lease - 4 copies Foe Lease - 3 copies

## State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102

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, Artesia, NIM 88210

330 660 990 1330 1690 1980 2310 2640

## WELL LOCATION AND ACREAGE DEDICATION PLAT

1000 Rio Brazos Rd., Aztec, NM 87410 All Distances must be from the outer boundaries of the section Operator Well No. Meridian Oil Inc. Rosa Unit (SF-078767) 209 Towns 31 North 6 West Actual Footage Location of Well: NMPM 1310 South foot from the 1310 feet from the West 6315 • Fruitland Coal Basin 272.02 Acres 1. Outline the acronge dedicated to the subject well by colored peacet or heckure marks on the plat below. 2. If more then one issue is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one least of different ownership is dedicated to the well, have the interest of all owners been consolidated by communication. unitation, force-scoting, etc.? No If survey to "yes" type of consciidation unitization er is "so" list the owners and tract descriptions which have actually been consolidated. (Use reverse ade of No allowable will be assigned to the well until all interests have been consciidated (by communication, manization, forces-pooling, or otherwise) or tutti a non-standard test, eliminating such interest, has been approved by the Division. 4485.36 OPERATOR CERTIFICATION Reissued to show I hereby certify that the informs resurveyed fbotages O ECELVEN Peggy Bradfield Printed Name AUG U8 1990 Regulatory Affairs OIL CON. DIV. Meridian Oil Inc. Company DIST. 3 80.00 Date SURVEYOR CERTIFICATION I hereby certify that the well location show on this plat was platted from field notes actual surveyo made by me or under t supervison, and that the same is true a ballet. 11-34 CBEOIN Negle C. Edwards 1310' 6857

1500

1000

# NORTHWEST PIPELINE CORPORATION OPERATIONS PLAN

Well Name: Rosa Unit #209

Date: November 7, 1988

I. <u>Location</u>: 1325' FSL & 1325' FWL

Elevation: 6316' GR

Sec. 24, T31N, R6W Rio Arriba County, NM 6328′ KB

Field: Basin Fruitland Pool

<u>Surface:</u> BLM

Minerals: Fed SF-078767

#### II. Geology: Surface formation - San Jose

Α.	Formation Tops		Depth
	Ojo Alamo		2428'
	Kirtland		2530 <b>′</b>
	Fruitland Sand	<i>-</i>	2865 <b>'</b>
	Fruitland Coal		3011′
	Pictured Cliffs		3167′
	Intermediate TD		2996 <b>′</b>
	Final TD		3166′

- B. Logging Program:
- C. Natural Gauges: Gauge any noticeable increases in gas flow. Record all gauges on daily drilling and morning reports.

#### III. Drilling:

- A. Contractor:
- B. Mud Program: Mud, water & gas will be furnished by Northwest Pipeline Corporation from surface to total depth.
  - a) From surface to total casing depth to be drilled with mud.
- C. While drill pipe is in use the pipe rams will be tested not less than once each day. The blind rams will be tested once each trip. All tests will be reported in the Northwest Pipeline Tour Reports as to time and date.

#### IV. Materials:

A. Casing Program:

Hole Size	Depth O.H.	<u>Casing Size</u>	₩t. &	<u>Grade</u>
12-1/4	200′	9-5/8"	32.3#	H-40
8-3/4"	2996′	7"	20#	K-55
6-1/4	3166′	5-1/2"	23#	P110

Operations Plan Rosa Unit #209 Page #2

#### B. Float Equipment:

- a) Surface Casing: 9-5/8" B&W Regular Pattern Shoe.
- b) Intermediate Casing: 7" Dowell guide shoe (Code #50101-070) and self fill insert float collar (Code #53003-070). Five (5) centralizers (Code #56011-070) spaced every other joint above the shoe. Place float one joint above shoe.
- c) Liner: 5-1/2" Perforated liner w/ notched collar on bottom. Liner hanger with neopreme pack off.
- C. Tubing Program: 3116' of 2-7/8" 6.4#, EUE, J-55 tubing w/ seating nipple on top of bottom joint. Expendable check valve on bottom.
- D. Wellhead Equipment: Rector well head drawing 88-0203 or equivalent. Wellhead company representative to set slips and make cut off.

#### V. Cementing

- A. Surface Casing: 9-5/8" Use 105 sx (125 cu.ft.) of Cl "B" w/ 1/4# gel flake/sx and 3% CaCl<sub>2</sub> (Yield=1.19) (100% excess to circulate). WOC 12 hrs. Test surface casing to 600 psi for 30 min.
- B. Intermediate Casing: 7" Cement w/ 78 sx Cl "B" w/ 6% gel and 6-1/4# gils/sx (Yield=1.87) (145 cu.ft.) 70% excess to cover Ojo Alamo. WOC 12 hrs. Test casing to 1200 psi for 30 min. Run temperature survey in 8 hrs.
- C. Production Liner: 5-1/2" Perforated liner will be run without cement (open hole completion).

M.J./Turnbaug Sr. Engineer

MJT/ch

Original: Well file

cc: Regular distribution

