

Submit to Appropriate
District Office
State Lease — 6 copies
Fee Lease — 5 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-101
Revised 1-1-89

OIL CONSERVATION DIVISION

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

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

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

API NO. (assigned by OCD on New Wells)

5. Indicate Type of Lease

STATE ☐

FEE ☒

6. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work:

DRILL ☒

RE-ENTER ☐

DEEPEN ☐

PLUG BACK ☐

b. Type of Well:

OIL
WELL ☒

GAS
WELL ☐

OTHER ☐

SINGLE
ZONE ☒

MULTIPLE
ZONE ☐

7. Lease Name or Unit Agreement Name

Seven Rivers Queen Unit

2. Name of Operator

ARCO OIL AND GAS COMPANY

8. Well No.

78

3. Address of Operator

Box 1610, Midland, Texas 79702

9. Pool name or Wildcat

Eunice 7RQ, South

4. Well Location

Unit Letter P : 160 Feet From The South Line and 315 Feet From The East Line

Section 34 Township 22S Range 36E NMPM Lea County

10. Proposed Depth

3850

11. Formation

7RQ

12. Rotary or C.T.

Rotary

13. Elevations (Show whether DF, RT, GR, etc.)

3491.3 GR

14. Kind & Status Plug. Bond

Statewide Blanket

15. Drilling Contractor

Tinsley & Sons Inc

16. Approx. Date Work will start

12-20-89

17.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 1/4	8 5/8	24	300	175	Surf
7 7/8	5 1/2	15.5	3850	925	Surf

Meridian Oil Inc. has been furnished a copy of this application w/attachments
Seven Rivers Queen Unit #38, shown in same qtr qtr, is to be converted to
water injection

NSL-2714

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. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Ken W. Gosnell TITLE Engr. Tech. DATE 11-29-89

TYPE OR PRINT NAME Ken W. Gosnell 915/688-5672 TELEPHONE NO.

(This space for State Use)

ORIGINAL SIGNED BY JERRY SEXTON

APPROVED BY DISTRICT I SUPERVISOR TITLE DATE

CONDITIONS OF APPROVAL, IF ANY:

DEC 04 1989

Permit Expires 6 Months From Approval
Date Unless Drilling Underway.

RECEIVED

DEC 1 1989

CCO
HOBBS OFFICE

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

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DISTRICT II
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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 ARCO Oil & Gas Company			Lease Seven Rivers Queen Unit		Well No. 78
Unit Letter P	Section 34	Township 22 South	Range 36 East	County Lea	
Actual Footage Location of Well: 315 feet from the East line and 160 feet from the South line					
Ground level Elev. 3491.3	Producing Formation 7RQ		Pool Eunice 7RQ, South		Dedicated Acreage: 40 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 _____
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, forced-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

Ken W. Gosnell

Printed Name

Ken W. Gosnell

Position

Engr. Tech

Company

ARCO Oil & Gas Co.

Date

11-28-89

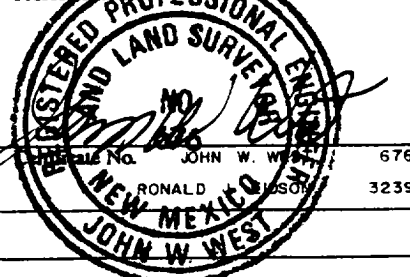
SURVEYOR CERTIFICATION

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.

Date Surveyed

October 11, 1989

Signature & Seal of Professional Surveyor



Meridian Oil
Inc. Otis

Jones #1

990'

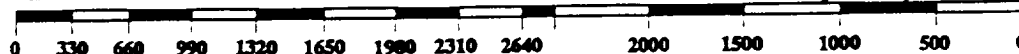
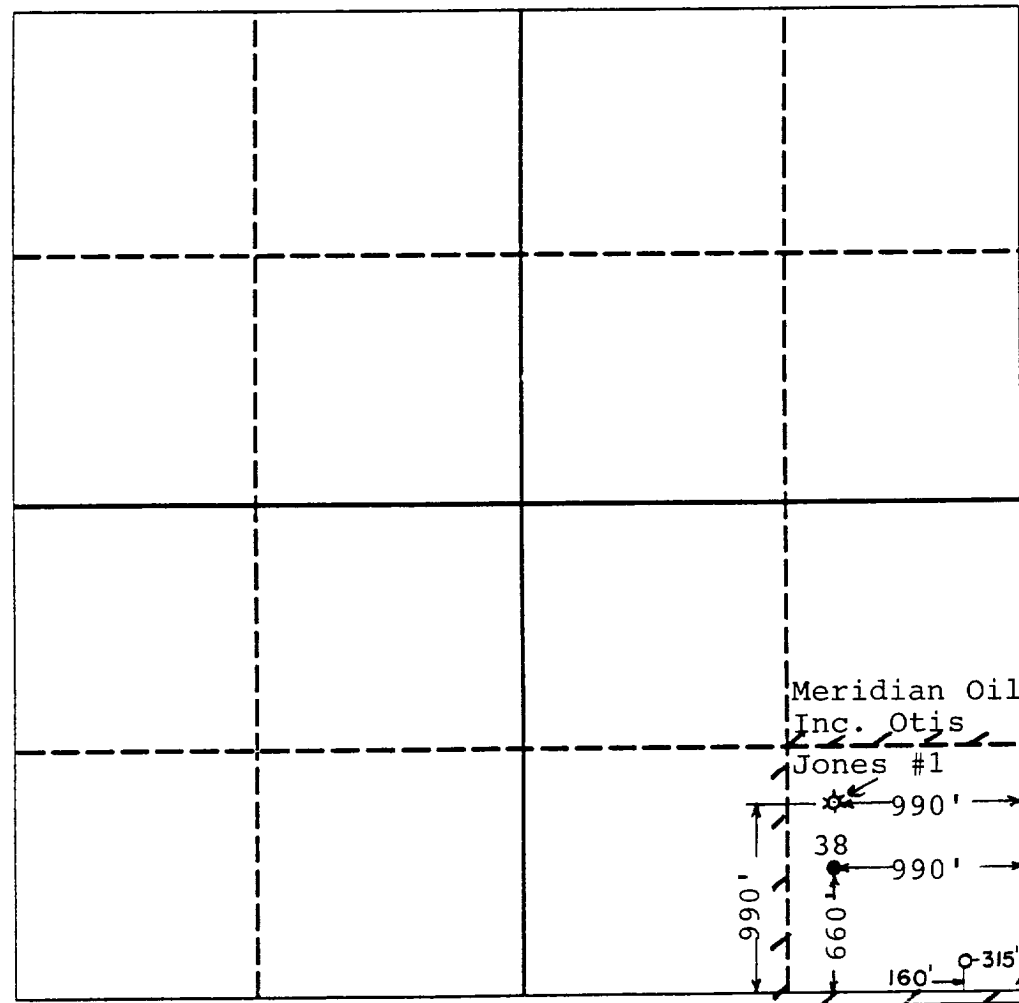
38

990'

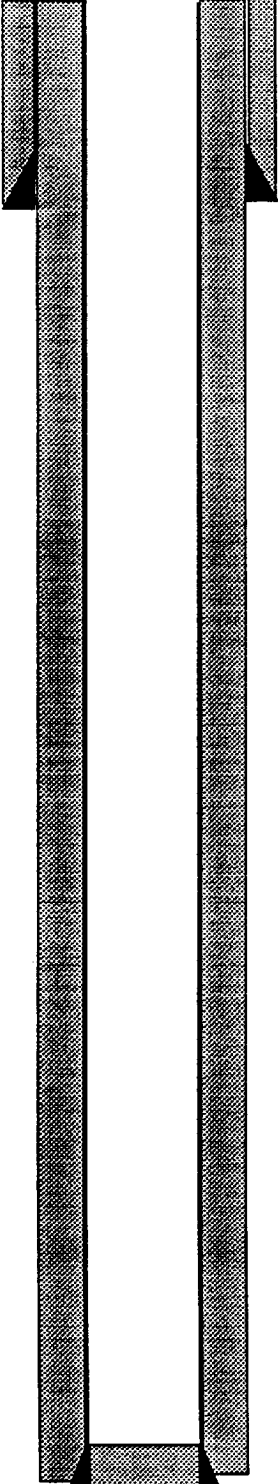
660'

160'

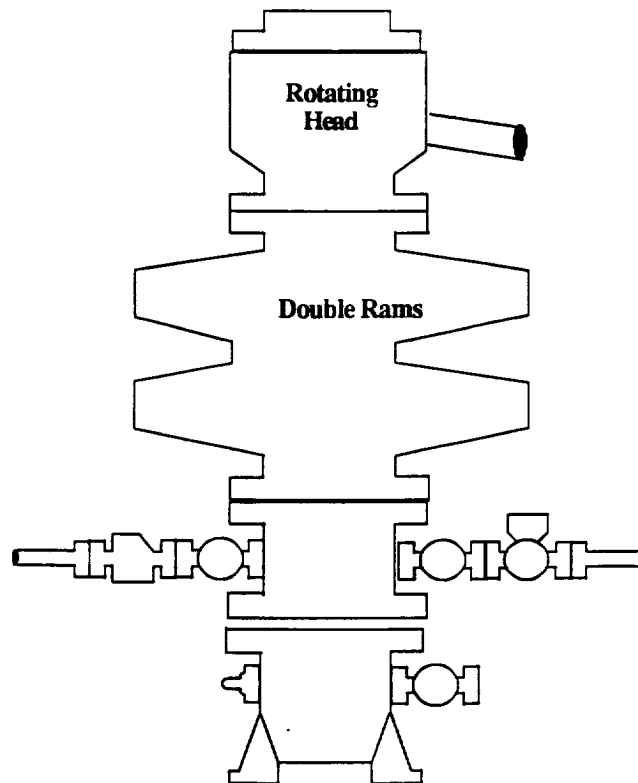
315'



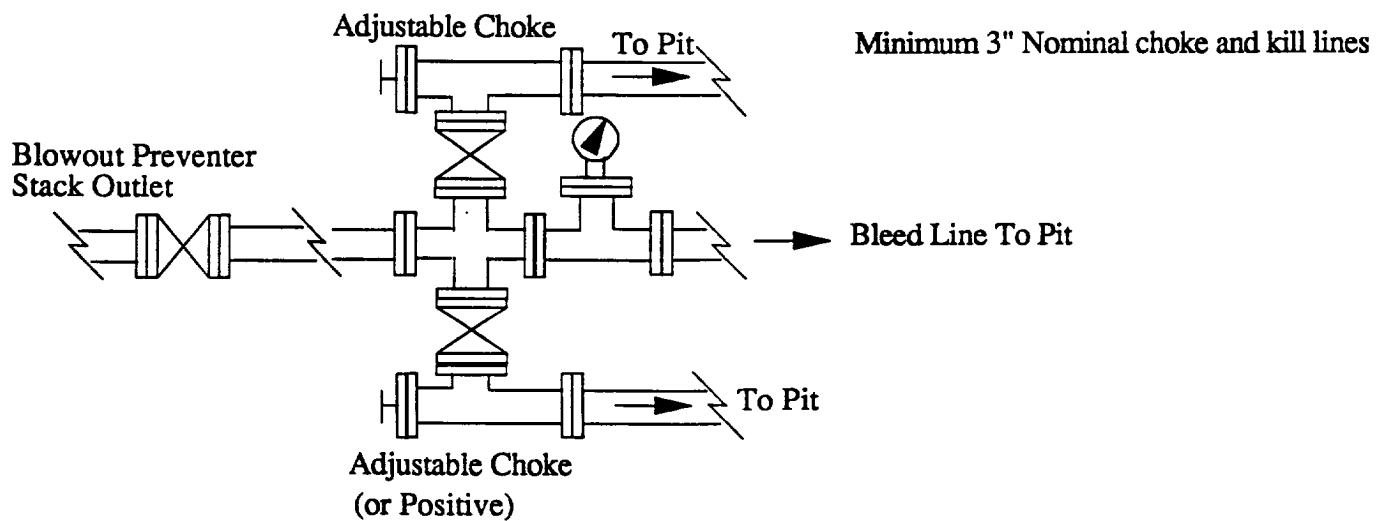
PROPOSED WELLBORE

	<u>Casing Points</u>	<u>Formation Tops</u>	<u>Mud</u>	<u>Problems</u>
	TOC Surface		0-300'	
	8-5/8" @ 300'		FW Spud Mud	
			<u>300-3600</u>	
			Brine Water	<u>Red Beds</u>
		Top Salt @ 1600		
				Deviation in salt section
		Base Salt @ 3000		
		Yates @ 3200		
		<u>QUEEN @ 3665'</u>	<u>3600'-TD</u>	
	5-1/2" @ TD		BW w/ starch for WL control 10-15 cc	

BOPE SCHEMATIC Minimum Requirement



Choke Manifold Requirement (3000 psi WP)



100-1-100
173

RECEIVED

DEC 1 1989

OCD
HOBBS OFFICE