

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

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

MAR 19 1991

O. C. D.
ARTESIA OFFICE

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

API NO. (assigned by OCD on New Wells)

31-115-26672

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

Lodewick A

2. Name of Operator

Conoco Inc. ✓

8. Well No.

3

3. Address of Operator

10 Desta Drive, Suite 100 W, Midland, TX 79705

9. Pool name or Wildcat

North Dagger Draw Upper Penn.

4. Well Location

Unit Letter D : 660 Feet From The north Line and 660 Feet From The west Line

Section 19

Township 19S

Range 25E

NMPM Eddy

County

10. Proposed Depth
8100'

11. Formation
Cisco

12. Rotary or C.T.
Rotary

13. Elevations (Show whether DF, RT, GR, etc.)
3587.9

14. Kind & Status Plug. Bond
Blanket

15. Drilling Contractor

16. Approx. Date Work will start

17.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
14 3/4"	9 5/8"	36/40#	1200'	2000 sxs	Surface
8 3/4"	7"	26#	8100'	1800 sxs	Surface

This well is proposed to be drilled as a Cisco oil producer.

Attached are:

1. Well location and Acreage Dedication Plat.
2. Proposed Well Plan Outline.
3. Cementing Program Outline.
4. BOP Specifications.

APPROVAL VALID FOR 180 DAYS
PERMIT EXPIRES 9/21/91
UNLESS DRILLING UNDERWAY

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

Jerry W. Hoover

TITLE

Regulatory Coordinator

DATE

3-18-91

TYPE OR PRINT NAME

Jerry W. Hoover

TELEPHONE NO. (915) 686-6548

(This space for State Use)

ORIGINAL SIGNED BY

MIKE WILLIAMS

APPROVED BY

SUPERVISOR, DISTRICT II

TITLE

DATE

MAR 21 1991

CONDITIONS OF APPROVAL, IF ANY:

NOTIFY N.M.O.C.D. IN SUFFICIENT
TIME TO WITNESS CEMENTING THE
95/8 CASING

OIL CONSERVATION DIVISION

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Santa Fe, New Mexico 87504-2088

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

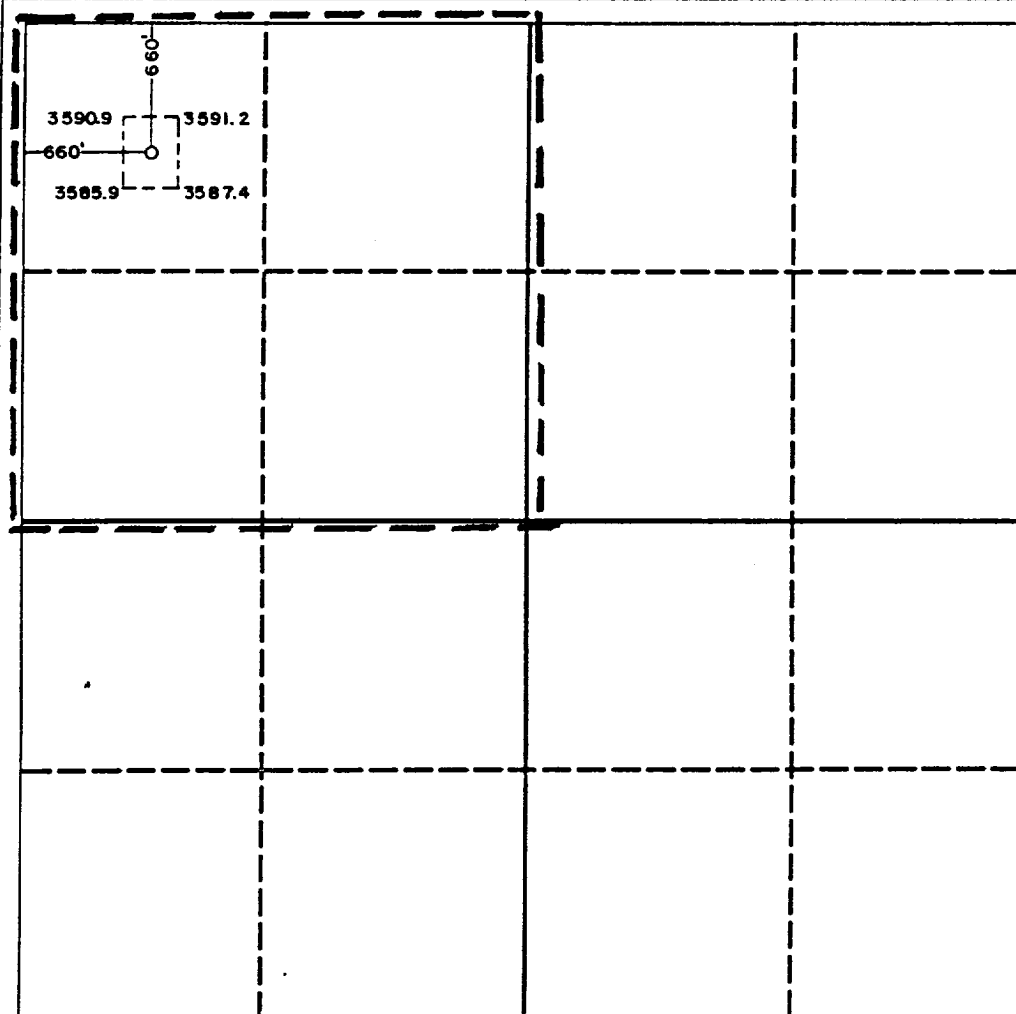
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator CONOCO, INC.			Lease LODEWICK "A"		Well No. 3
Unit Letter D	Section 19	Township 19 SOUTH	Range 25 EAST	County EDDY	
Actual Footage Location of Well: 660 feet from the NORTH line and 660 feet from the WEST line					
Ground level Elev. 3587.9	Producing Formation Cisco	Pool North Dagger Draw Upper Penn.	Dedicated Acreage: 160 Acres		

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- 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
Jerry W. Hoover
Printed Name
Jerry W. Hoover
Position
Regulatory Coordinator
Company
Conoco Inc.
Date
3/18/91

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
4-91 NO.
Signature of Professional Surveyor
676
JOHN W. WEST
Certificate No.
JOHN W. WEST, 676
RONALD J. EIDSON, 3239

PROPOSED WELL PLAN OUTLINE

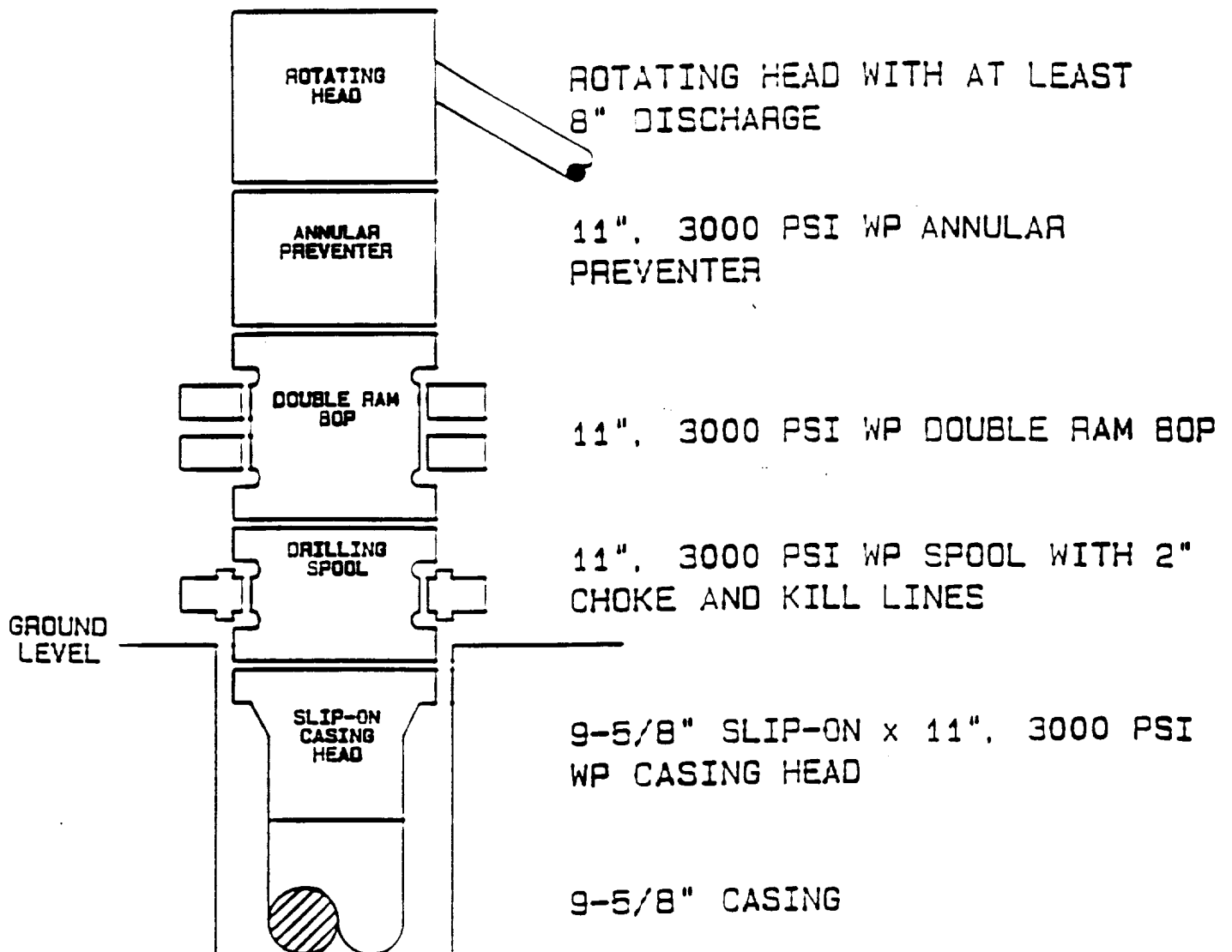
WELL NAME: Lodewick "A" No.3 COUNTY: Eddy STATE: New Mexico

LOCATION: 660' FNL, 660' FWL, Section 19, EST. KB: _____

T-19-S, R-25-E EST. GL: 3588'

DEPTH	FORMATION TOPS & TYPE	DRILLING PROBLEMS	TYPE OF FORMATION EVALUATION	HOLE SIZE	CASING SIZE-DEPTH	FRAC GRAD	FORM PRESS GRAD	MUD WT & TYPE (PPG)	DAYS
	Surface Water 300'		0'-1200'					Spud 8.4-8.7	
1000			Deviation Survey each 250' not to exceed 3°						
		Known lost circulation from 0-1200		14-3/4	9-5/8 @ 1200		8.33		4
	Glorieta 1989'		Install H ₂ S monitor @ 1200'		w/2000 sx "lite" & "C" (to protect from surface waterflows and severe Lost circ.)			Cut Brine 8.8-9.2	6
2000		H ₂ S poss. to TD	Install a 2-man mudlogger						
	Yeso 2145'		1200'-TD						
			1200'-3000'						
3000		Deviations from 4-6° likely from 4500'-5500'	Deviation survey each 250' not to exceed 5° or 1°/100' DLS						8
								pH > 10 to TD	10
4000	Abo 4198'								
					DV tool above lower Abo LC zone (If Nec) 4500'				13
5000									
	Wolfcamp 5100'								17
6000			3000'-TD Deviation survey each 250' or as needed not to						
									20
7000		H ₂ S possible in Cisco	exceed 5° or 1°/100' DLS					Mud up with salt gel and starch @	
	Cisco 7600'								
8000				8-3/4"					
	Target TD 8100'		GR-CNL-LDT-		7" @ 8100'	15	8.3-	7300'	25
			DLL-MSFL-CAL from 8100'-1200'		w/1800 sx "H" & "C" lite		9.0	8.8-9.2	
9000			Image Log from 8100'-7600'						

BOP SPECIFICATIONS



CEMENT PROGRAM OUTLINE

WELL NAME: Lodewick A No. 3

LOCATION : 660' FNL & 660' FWL, Sec. 19, T-19S, R-25E, Eddy County

Casing Program

Surface 9-5/8 inch in 14 3/4 hole at 1200 ft.
Inter inch in hole at ft.
Prod 7" inch in 8 3/4 hole at 8100 ft.

Cementing Program

Surface

Lead 800 sxs Class Thixad Mixed at 12.2 ppg
Additives 12# Calsonite
Tail 1200 sxs Class C Mixed at 13.9 ppg
Additives 2% CaCl

Intermediate (first stage)

Lead sxs Class Mixed at ppg
Additives
Tail sxs Class Mixed at ppg
Additives
Percent free water Water loss cc

(second stage)

Lead sxs Class Mixed at ppg
Additives
Tail sxs Class Mixed at ppg
Additives
Percent free water Water loss cc

Production (first stage)

Lead 600 sxs Class "C" Lite Mixed at 12.4 ppg
Additives 2% CaCl & FLA as needed
Tail 300 sxs Class H Mixed at ppg
Additives 3% KCl & FLA as needed for zero free water and 250 cc
Percent free water 0 Water loss 250 cc

(second stage)

Lead 600 sxs Class "C" Lite Mixed at ppg
Additives 3% KCl & FLA as needed
Tail 300 sxs Class H Mixed at ppg
Additives 3% KCl FLA as needed
Percent free water Water loss cc