

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
DRILL ☒ DEEPEN ☐ PLUG BACK ☐

b. TYPE OF WELL
OIL WELL ☒ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR
Conoco Inc.

3. ADDRESS OF OPERATOR
10 Desta Drive West, Midland, TX 79705

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface 660' FSL & 1980' FWL
560'
At proposed prod. zone
Blinebry/Drinkard

5. LEASE DESIGNATION AND SERIAL NO.
LC 0316958

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Warren Unit

8. FARM OR LEASE NAME

9. WELL NO.
100

10. FIELD AND POOL, OR WILDCAT
Blinebry/Warren Drinkard

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 28, T-20S, R-38E

12. COUNTY OR PARISH
Lea

13. STATE
NM

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)

16. NO. OF ACRES IN LEASE

17. NO. OF ACRES ASSIGNED TO THIS WELL
40

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH
7000'

20. ROTARY OR CABLE TOOL
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
GR 3525' 3521'

22. APPROX. DATE WORK WILL START*

PROPOSED CASING AND CEMENTING PROGRAM

HOLE SIZE	CASING SIZE	WEIGHT/FOOT	GRADE	THREAD TYPE	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8"	36#	K-55	ST&C	1490'	1450sxs
8-3/4"	7"	26#	K-55	LT&C	7000'	3260sxs

This well is proposed to be drilled as a Blinebry/Drinkard dual producer.

Attachments

- 1) Well Location and Acreage Dedication Plat.
- 2) Attachment to Form 3160-3.
- 3) Proposed Well Plan Outline.
- 4) Surface Use Plan.
- 5) EXHIBIT A - New Mexico road map.
- 6) EXHIBIT B - Lease road map.
- 7) EXHIBIT B.1 - Location facility plat.
- 8) EXHIBIT C - Rig layout plat.
- 9) BOP Specifications.
- 10) H₂S Drilling Operations Plan

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 Jerry W. Hoover TITLE Regulatory Coordinator DATE 1/9/91
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE 4-19-91
CONSENT OF APPLICANT, IF ANY:

REQUIREMENTS AND
SPECIAL SPECIFICATIONS

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

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

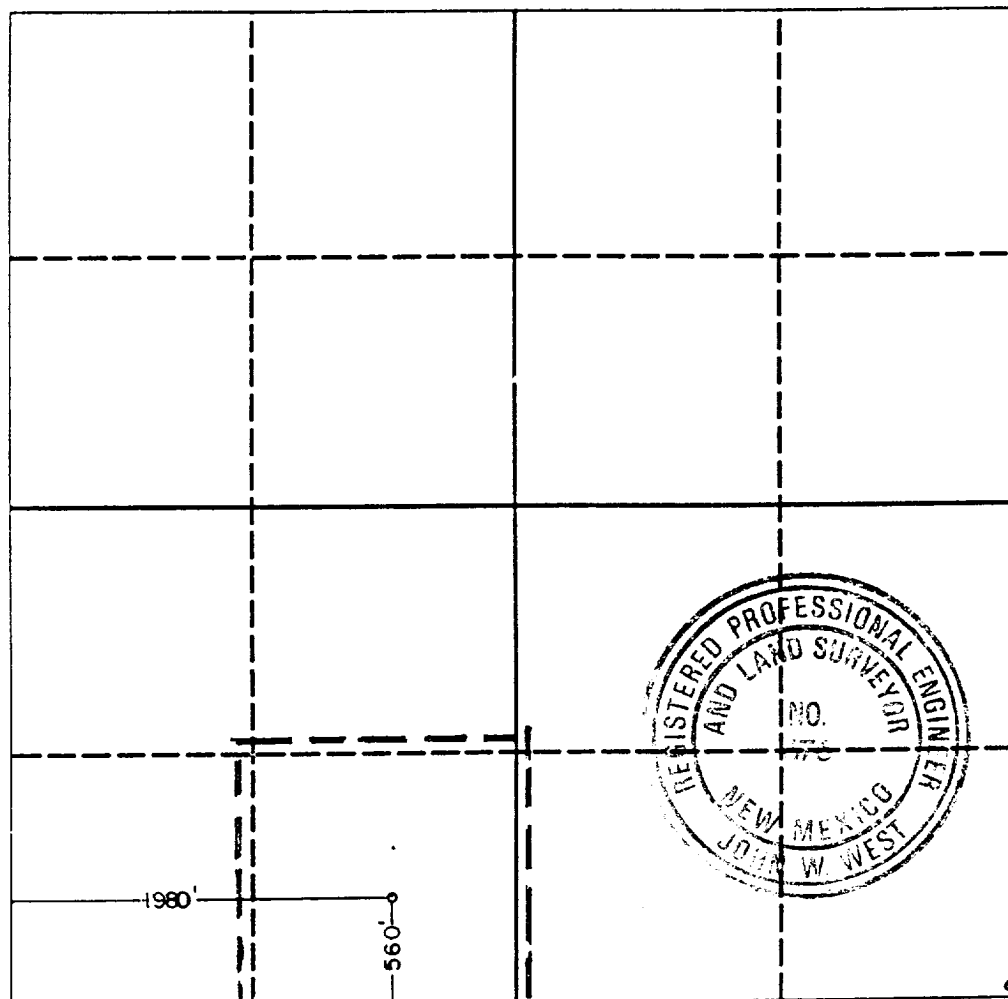
DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator CONOCO, INC.			Lease WARREN UNIT		Well No. 100
Unit Letter N	Section 28	Township 20 SOUTH	Range 38 EAST	County LEA	
Actual Footage Location of Well: 1980 feet from the WEST line and 560 feet from the SOUTH line					
Ground level Elev. 3521.0	Producing Formation Blinberry/Drinkard		Pool Blinberry/Warren Drinkard		Dedicated Acreage: 40 Acres
<p>1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.</p> <p>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).</p> <p>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.? <input type="checkbox"/> Yes <input type="checkbox"/> No If answer is "yes" type of consolidation _____</p> <p>If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____</p> <p>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.</p>					



OPERATOR CERTIFICATION

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

Signature
John W. Hoover
Printed Name
Jerry W. Hoover
Position
Regulatory Coordinator
Company
Conoco Inc.
Date
3/19/91

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
3-8-91
Signature & Seal of Professional Surveyor
John W. West
Certificate No. JOHN W. WEST, 676
RONALD J. EIDSON, 3239

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CHIEF
HONORARY

ATTACHMENT TO FORM 3160-3
APPLICATION FOR PERMIT TO DRILL

Conoco Inc.

Warren Unit No. 100
Sec. 28, T-20S, R-38E
Lea County, New Mexico

1. The estimated tops of important geologic markers are shown on the attached Proposed Well Plan Outline.
2. The estimated depths at which anticipated water, oil, gas or other mineral-bearing formations to be encountered are shown on the attached Proposed Well Plan Outline.
3. A drawing of Blowout Preventer Specifications is attached. Pipe rams and blinds will be checked to the working pressure of the stack or 70% of the minimum internal yield strength of the casing whichever is less. BOPE will be checked when casing string is set.
4. The proposed casing program is as follows:
 0-1490': 9-5/8", 36# K-55
 0-7000': 7", 26# K-55
5. The proposed mud program is as follows:
 0-1490': 8.4-8.6# Fresh Water
 1490'-5800': 10.0# Brine
 5800'-7000': 10.0# Salt Gel/Starch
6. Run open-hole logs from 2600'-7000'. The log suite will include the following:
 1) GR-CAL-DLL-MSFL, 2) GR-CAL-FDC-CNL-PE. A temperature survey will be run to determine the top of cement on each casing string where cement is not circulated.
7. Special Drilling Problems:
 a) Possible hole enlargement & sloughing, 0'-4500'.
 b) Possible lost circulation 4500'-TD.
8. The anticipated starting date is 5-27-91 with a duration of approximately 17 days.

PROPOSED WELL PLAN OUTLINE

WELL NAME: WARREN UNIT NO 100 COUNTY: LEA STATE: NM
 LOCATION: 660' FSL & 1980' FWL EST. KB: 3541'
Sec. 28, T-20S, R-38E EST. GL: 3525'

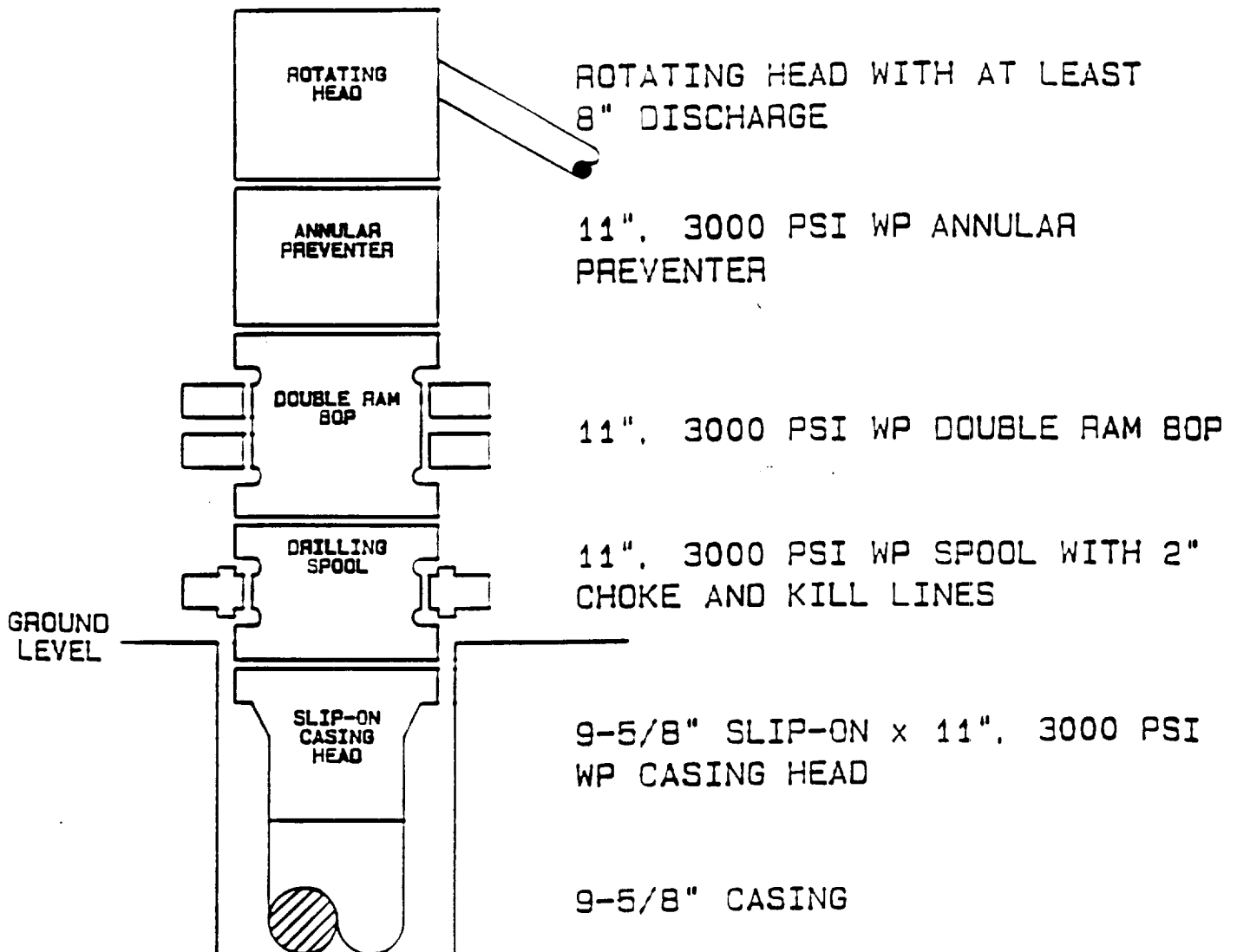
DEPTH	FORMATION TOPS & TYPE	DRILLING PROBLEMS	TYPE OF FORMATION EVALUATION	HOLE SIZE	CASING SIZE-DEPTH	FRAC GRAD	FORM PRESS GRAD	(PPG) MUD WT & TYPE	DAYS
500	Redbeds	Possible Hole Enlargement & Sloughing	Deviation survey every 200' ≤ 3°	12 1/4"				Fresh gel & lime 8.3 ppg	-
1000									-
1500	Rustler 1435'		Deviation survey every 500' ≤ 3° below surf. casing	8-3/4"	9 5/8" @ 1490			10.0 ppg brine	2
2000									4
2500									-
	Base Salt 2550'		Two Man Mud Loggers 2600-TD						
	Yates 2695'								
3000	7 Rivers 2970'		Install H ₂ S monitors @ 4000'						6
3500	Queen 3520'								
4000	San Andres 4125'							Pre- treat mud w/ LCM pill @ 4500'	9
							<8.3		
4500		Possible lost circ. or seepage W.U. #35 had stuck pipe due to differential sticking while drlg. thru Glorieta							-
5000					DV Tool @ Top of Glorieta (as needed)	13.5- 15.5		Mud-up in Glorieta only if hole cond. warrants	11
	Glorieta 5360'								-
5500									
6000	Blinebry 5840'	Possible Seepage from Blinebry to TD.							14
	Tubb 6325'								
6500						13-15			-
	Drinkard 6610'								
7000	TD 7000'		GR-CAL 1600'-TD GR-CAL-DLL-MSFL GR-LDT-CNL-PE 5000'-TD		7" @ 7000'	19-20	<8.3		17

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ROBERT

BOP SPECIFICATIONS



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