

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. LC 0316958
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		6. IF INDIAN, ALLOTED OR TRIBE NAME
2. NAME OF OPERATOR Conoco, Inc.		7. UNIT AGREEMENT NAME Warren Unit
3a. Area Code & Phone No. (915) 686-6548		8. FARM OR LEASE NAME
3. ADDRESS OF OPERATOR 10 Desta Dr. Ste 100W, Midland, TX 79705		9. WELL NO. 111
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 2180' FNL & 660' FEL At proposed prod. zone Blinebry/Tubb/Drinkard		10. FIELD AND POOL, OR WILDCAT Blinebry/Warren Tubb Drinkard
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE		11. SEC., T., R., M., OR S.E. AND SURVEY OR AREA Sec. 28, T-20S, R-38E
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 6700'	20. ROTARY OR CABLE TOOLS Rotary
21. ELEVATIONS (Show whether DP, RT, GR, etc.) 3542.7'		22. APPROX. DATE WORK WILL START 10/1/93

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	1500	800 SX/CLP.
8-3/4"	7"	23#	K-55	LT&C	6700	1400 SX/CLP.

It is proposed to drill this Blinebry/Tubb/Drinkard oil well according to the drilling plan submitted in the following attachments:

1. Well Location and Acreage Dedication Plat (C-102)
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.1: Lease road & well location maps
7. EXHIBIT B.2: 7.5' Quandrangle Topo Area Map
8. EXHIBITS C.1-C.8: Road, flowline, & powerline plats
9. EXHIBIT D: Rig Layout Plan
10. BOP Specifications
11. 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 prevention program, if any.

SIGNED Joseph M. Hoover TITLE Sr. Conservation Coordinator DATE 8/10/93
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____
(ORIG. SGD.) RICHARD L. MANUS AREA MANAGER
APPROVED BY _____ DATE AUG 22 1993
CONDITIONS OF APPROVAL, IF ANY: _____

Approval Subject to
General Regulations and
Special Conditions

*See Instructions On Reverse Side

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Santa Fe, New Mexico 87504-2088

All Distances must be from the outer boundaries of the section

Operator CONOCO INC.			Lease WARREN UNIT		Well No. 111	
Unit Letter H	Section 28	Township 20 SOUTH	Range 38 EAST NMPM		County LEA	
Actual Footage Location of Well:						
2180 feet from the NORTH line and			660 feet from the EAST line			
Ground Level Elev. 3542.7'	Producing Formation Blinberry / Tubb / Drinkard		Pool Blinberry / Warren Tubb / Warren Drinkard		Dedicated Acreage: 40 Acres	
<p>1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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 communization, unitization, force-pooling, etc.?</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No If answer is "yes" type of consolidation _____</p> <p>If answer is "no" list of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary. _____)</p> <p>No allowable will be assigned to the well unit all interests have been consolidated (by communization, unitization, forced-pooling, otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.</p>						
					OPERATOR CERTIFICATION	
					<p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p>Signature <i>[Signature]</i> Printed Name Derry W. Hoover Position Sr. Conservation Coordinator Company Conoco Inc. Date 8-10-93</p>	
					SURVEYOR CERTIFICATION	
					<p>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.</p> <p>Date Surveyed JUNE 29, 1993</p> <p>Signature & Seal of Professional Surveyor <i>[Signature]</i> Certificate No. JOHN W. WEST 023 RONALD J. EIDSON 797 GARY L. JONES 797 93-111-115</p>	

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**ATTACHMENT TO FORM 3160-3
APPLICATION FOR PERMIT TO DRILL**

Conoco Inc.

**Warren Unit No. 111
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. BOP will be checked when casing string is set.
4. The proposed casing program is as follows:

0-1500':	9-5/8"	36#	K-55
0-6700':	7"	23	K-55
5. The proposed mud program is as follows:

0-1200'	8.4# Fresh
1500'-5600':	10.0# Saturated Brine
5600'-6700':	10.2# Brine w/starch
6. The logging suite will include the following open-hole logs:
1) GR-CAL-DLL-MSFL-CNL-LDT from TD-2500' and 2) CBIL from TD-2500'. 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) Lost circulation 4000'-5000'.
 - b) Possible differential sticking 5000'-5500'.
8. The anticipated starting date is 9-15-93 with a duration of approximately 14 days.

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**JOE HOBBS
OFFICE**

PROPOSED WELL PLAN OUTLINE

WELL NAME **WARREN UNIT NO.111**

LOCATION **2180'FNL 660'FEL SECT. 28 T-20S R-38E LEA CO.**

TVD IN 1000'	MD	FORMATION TOPS & TYPE	DRILLING PROBLEMS	TYPE OF FORMATION EVALUATION	HOLE SIZE	CASING SIZE DEPTH	FRAC GRAD	FORMATION PRESSURE GRADIENT	WT	MUD TYPE	DAYS
0			POSSIBLE HOLE ENLARGEMENT & SLOUGHING		12-1/4"				8.4	FRESH	
1		RUSTLER 1430'				9-5/8", 36#, K-55, ST&C @ 1500'					3
2					8-3/4"	Cemented with 800 sz			10	BRINE	
3		BASE SALT 2525'		2-MAN MUD LOGGERS 2500' - TD							
		YATES 2730'									
4		7-RIVERS 2985'									5
		GRAYBURG 3575'									
5		SAN ANDRES 4040'		H2S MONITORS AT 4000'				LESS THAN 8.3			
6			POSSIBLE LOST CIRCULATION OR SEEPAGE. W.U. 35 HAD STUCK PIPE DUE TO DIFFERENTIAL STICKING WHILE DRILLING THRU GLORIETTA								8
		GLORIETTA 5355'									
7		BLINEBRY 5805'	POSSIBLE SEEPAGE FROM BLINEBRY - TD						10.2	BRINE STARCH	10
		TUBB 6315'		GR-CAL-DDL-MSFL FROM 2500' - TD							
		DRINKARD 6605'		GR-CAL-FDC-CNL-PE FROM 2500' - TD							
8		TD 6700'		BRING GR-CAL TO SURFACE ON ONE SUITE		7", 23#, K-55, LT&C @ 6700' Cemented with 1400 sz		LESS THAN 8.3			14

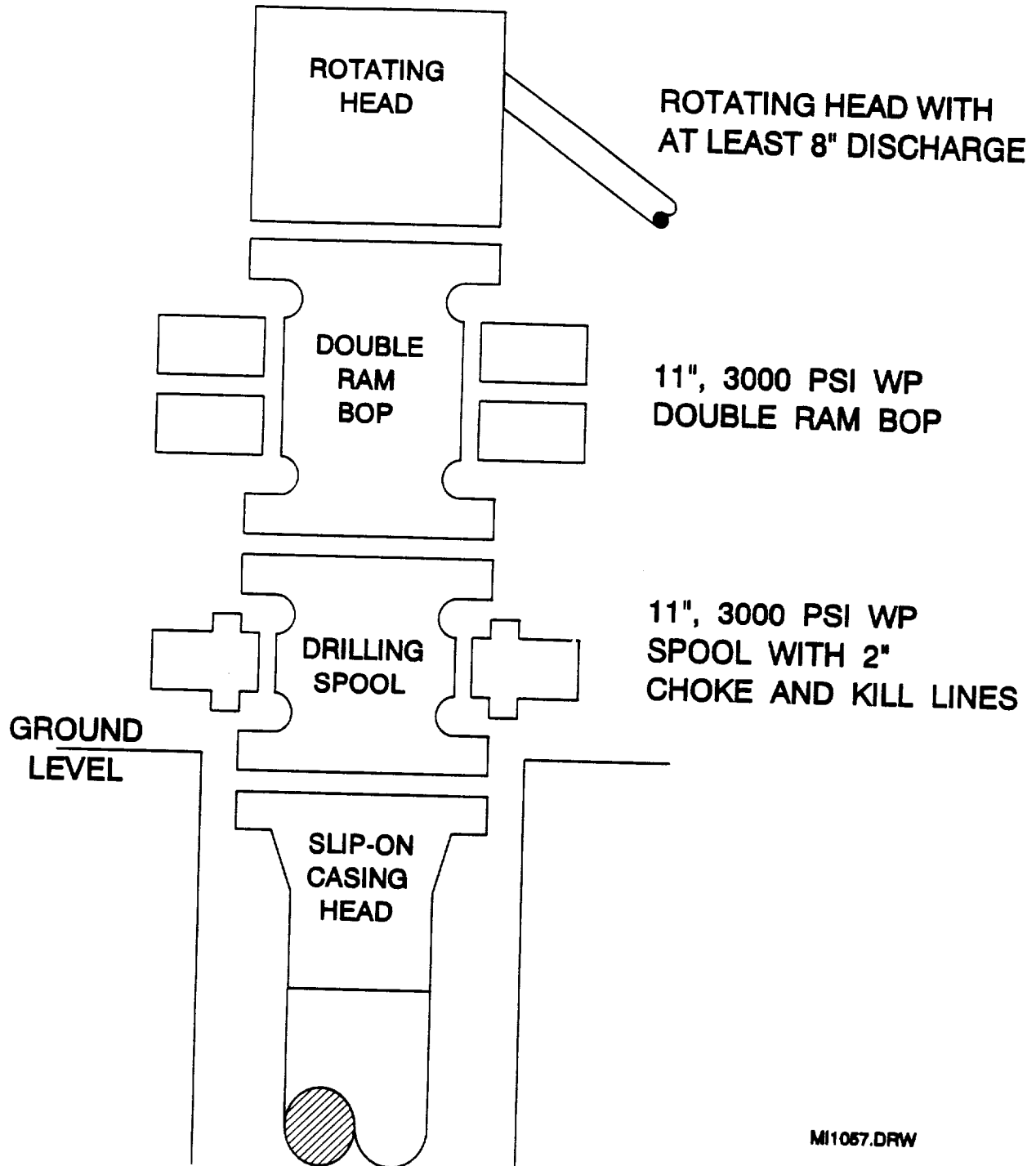
DATE **23 JULY 1993**

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BOP SPECIFICATIONS



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