

District I
PO Box 1980, Hobbs, NM 88241 1980

District II
PO Drawer DD, Artesia, NM 88211-0719

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

District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-101

Revised February 10, 1994

Instructions on back

Submit to Appropriate District Office

State Lease - 6 Copies

Fee Lease - 5 Copies

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

Operator Name and Address: Conoco Inc 10 Desta Dr. Ste. 100W Midland, Tx. 79705-4500		GRID No. 005073
Property Code 013396	Property Name Hardy 36 State	API Number 30 - 025-34102
		Well No. 25

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	36	20S	37E		2180	South	330	West	Lea

s Proposed Bottom Hole Location If Different From Surface

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Proposed Pool 1 North Hardy Tubb-Drinkard					Proposed Pool 2				

Work Type Code N 16 Multiple No	Well Type Code O 17 Proposed Depth 7,000'	Cable/Rotary R 18 Formation Tubb-Drinkard	Lease type Code S 19 Contractor NA	14 Ground Level Elevation 3492' 20 Spud Date 8/21/97
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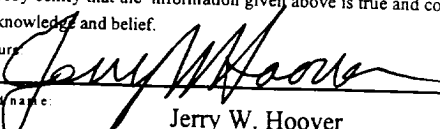
21 Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
12-1/4"	8-5/8"	23#	1250'	565	surface
7-7/8"	5-1/2"	17# L-80	7000'	1340'	surface

Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.
It is proposed to drill a vertical wellbore through the Drinkard formation. The well will be drilled and equipped according to the following additional attachments:

1. Well Location & Acreage Dedication Plat (C-102)
2. Proposed Well Plan Outline
3. Cementing program
4. BOP/Choke diagram

Permit Expires 1 Year From Approval
Date: AUG 18 1997

23 I hereby certify that the information given above is true and complete to the best of my knowledge and belief.		OIL CONSERVATION DIVISION	
Signature: 		Approved by: ORIGINAL SIGNED BY CHRIS WILLIAMS	
Printed name: Jerry W. Hoover		DISTRICT I SUPERVISOR	
Title: Sr. Conservation Coordinator		Title:	
Date: 8/14/97	Phone: (915) 686-6548	Approval Date: AUG 18 1997	Expiration Date:
		Conditions of Approval: Attached	

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State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-025-34102		*Pool Code 96356	*Pool Name N Hardy Tubb Drinkard
*Property Code 13396	*Property Name HARDY 36 STATE		*Well Number 25
*OGRID No. 5073	*Operator Name CONOCO INC.		*Elevation 3492'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	36	20-S	37-E		2180	SOUTH	330	WEST	LEA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
*Dedicated Acres		*Joint or Infill		*Consolidation Code		*Order No.			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16					17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Signature Mike L. Mankin Printed Name Mike L. Mankin Title Right of Way Agent Date 7-22-97
					18 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 best of my belief. JULY 1, 1997 Date of Survey Signature and Seal of Professional Surveyor: Earl Footenot 8278 Certificate Number 8278

LAT.=32°31'42"
LONG.=103°12'45"

330'

2180'

PROPOSED WELL PLAN OUTLINE

WELL NAME **HARDY 36 STATE NO. 25**

EST GL = 3491'

LOCATION **330' FWL, 2180' FSL, SEC. 36, T-20S, R-37E, LEA CO.**

EST KB = 3504'

TVD IN	MD	FORMATION TOPS & TYPE	DRILLING PROBLEMS	TYPE OF FORMATION EVALUATION	HOLE SIZE	CASING SIZE DEPTH	FRAC GRAD	FORMATION PRESSURE GRADIENT	MUD WEIGHT & TYPE	DAYS
0					12-1/4"				SPUD	
1										
2		RUSTLER 1295' TOP OF SALT 1390'	WASHOUTS IN SALT SECTION			8-5/8" 23# K-55 ST&C 565 SX CIRC CMT 1250'		LESS THAN 8.3	10 PPG BRINE	3
3		B/SALT 2540' YATES 2700' 7-RIVERS 2960' QUEEN 3450'	LOST CIRCULATION TO 5000' SEEPAGE TO SEVERE ACTIVE WATERFLOOD ZONE		7-7/8"					
4		GRAYBURG 3725' SAN ANDRES 3916'		2-MAN MUD LOGGERS ON AT 3500'						
5			POSSIBLE DEVIATION TO TD							7
6		GLORIETA 5184' BLINEBRY MKR 5750'	PARTIAL LOSSES POSSIBLE					LESS THAN 8.3		
7		TUBB MKR 6308' DRINKARD 6784'	HARDY 36-1 HAD LOSSES @ 6357' OF 170 bph-MUDDER UP							
8		TD 7,000'		GR-CAL-DLL-MLL-FDC-CNL-PE TD TO 2650'. PULL GR-CAL TO SURFACE CASING		5 1/2" 17# L-80 @ 7,000' 1340 SX, CIRC CMT		BHP - 2750 psi	10 PPG STARCH GEL @ TD	17
9										
10										
11										
12										
13										

DATE JULY 28, 1997

APPROVED KEITH YANKOWSKY
DRILLING ENGINEER

12 1997
Received
Hobbs
OCD
123456789

Well Name : Hardy 36 State #25

Location : 330' FWL & 2180' FSL Sec 36, T-20S, R-37E, Lea County, New Mexico

Casing Program :

Surface 8 5/8" casing in 12 1/4" Hole at 1250 ft.
Production 5 1/2" casing in 7 7/8" Hole at 7000 ft.

Cementing Program :

Surface

Lead 365 sacks Class C Mixed at 12.7 ppg
Additives 35:65:6 (Poz:Cem:Gel) + 2% CACL2
+ 0.25 pps Cello-Flake

Tail 200 sacks Class C Mixed at 14.8 ppg
Additives 2% A-7P

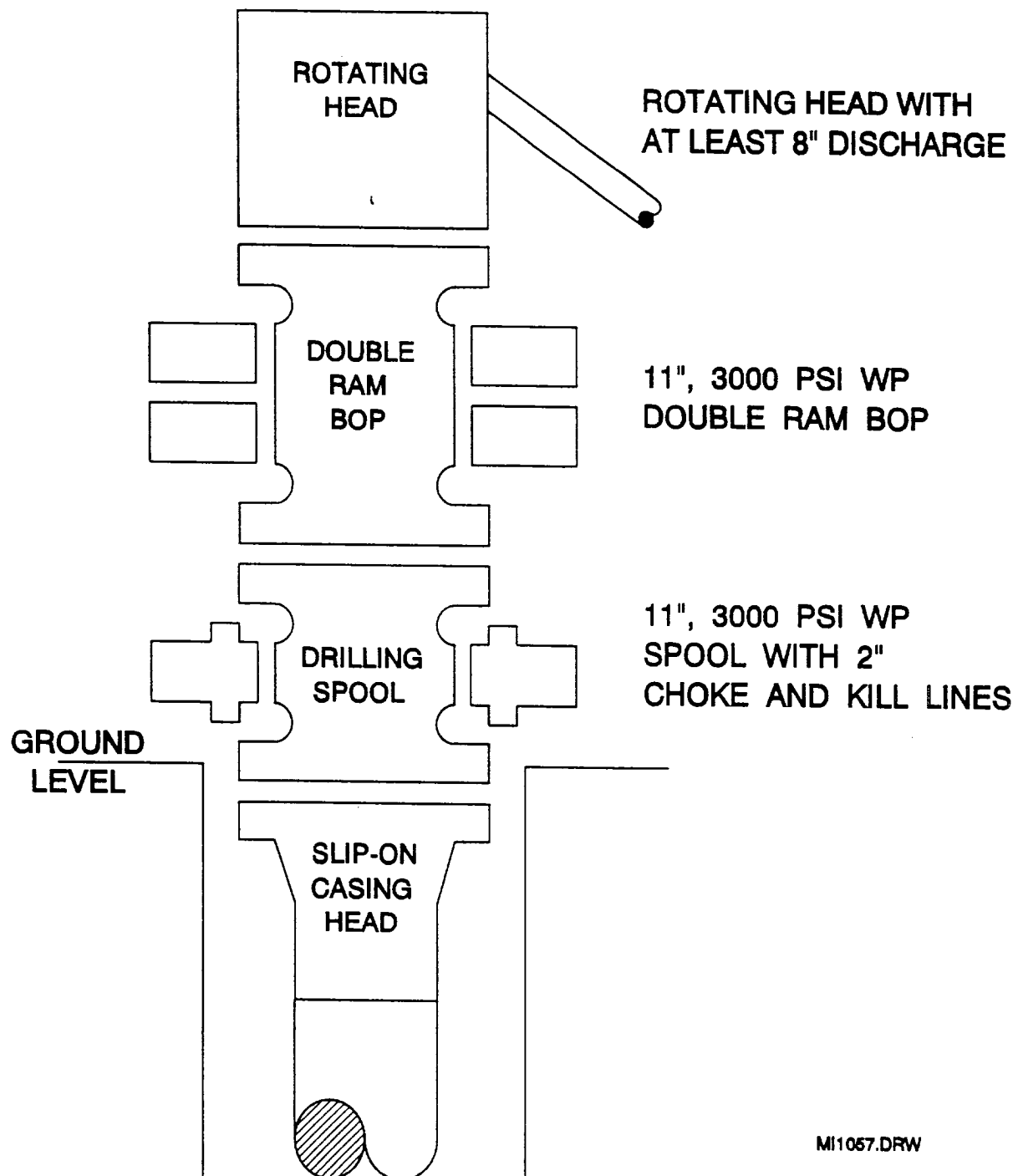
Production

Lead 600 sacks Class C Mixed at 12 ppg
Additives 16% Gel + 2% Salt + 0.3% CD-32 + 0.3% SMS

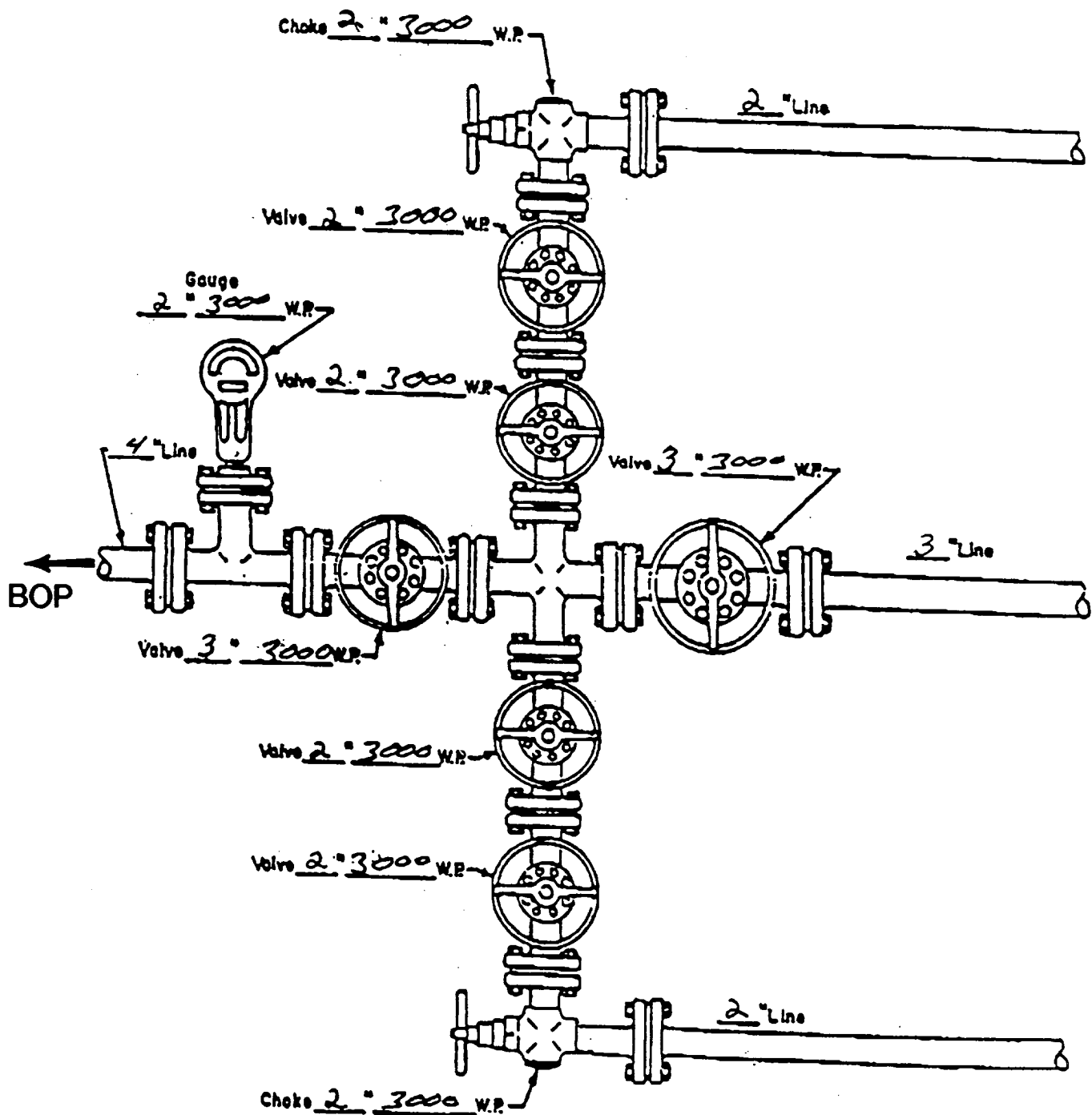
Tail 740 sacks Class C Mixed at 14.8 ppg
Additives 1.1% FL-62 + 1% BA-58 + 3% Salt + 0.3% CD-32
+ 0.2% SMS

Free Water 0 % **Fluid Loss** 30 cc/30 min.

BOP SPECIFICATIONS



CHOKE MANIFOLD DIAGRAM



MANIFOLD
3000 #W.P.

- ☒ Manual
- ☐ Hydraulic