

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-101
Revised March 17, 1999

Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

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

¹ Operator Name and Address Conoco Inc., 10 Desta Drive, Suite 649W, Midland, TX 79705		² OGRID Number 035073
		³ API Number 30 - 025 - 35770
³ Property Code 3105	⁵ Property Name State F1	⁶ Well No. 14

⁷ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
16	1	21S	36E		2990'	South	450'	East	Lea

⁸ 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
⁹ Proposed Pool 1 Hardy Tubb Drinkard						¹⁰ Proposed Pool 2			

¹¹ Work Type Code N	¹² Well Type Code O	¹³ Cable/Rotary R	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 3496'
¹⁶ Multiple No	¹⁷ Proposed Depth 7000'	¹⁸ Formation Tubb Drinkard	¹⁹ Contractor	²⁰ Spud Date 01/10/02

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
12 1/4"	J-55, 8-5/8"	24#	1500'	665'	Surface
7 7/8"	L-80, 5 1/2"	17#	7000'	990'	Surface

22 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.

1. Well Location and Acreage Dedication Plat (C-102)
2. Proposed Well Plan Outline
3. Cementing Program
4. BOP/Choke Diagram

Permit Expires 1 Year From Approval
Date Unless Drilling Underway

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature: *Kimberly Southall*
Printed name: Kimberly Southall

Title: Associates Assistant

Date: 11/20/01

Phone: 915/686-5565

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

Expiration Date:

Conditions of Approval:

Attached ☐

DISTRICT I
1900 N. French Dr., Hobbs, NM 88240

DISTRICT II
611 South First, Artesia, NM 88210

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

DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised March 17, 1999

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, New Mexico 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-35770	Pool Code 29760	Pool Name Hardy Tubb Drinkard
Property Code 3105-	Property Name STATE F1	Well Number 14
OGUID No. 005073	Operator Name CONOCO INC.	Elevation 3496'

Surface Location

UL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
16	1	21 S	36 E		2990	SOUTH	450	EAST	LEA

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 40	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

LOT 12 - 40.0 AC.	LOT 11 - 40.0 AC.	LOT 10 - 40.0 AC.	LOT 9 - 40.0 AC.	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. <i>Kay Maddox</i> Signature KAY MADDUX Printed Name Regulatory Agent Title 11/15/2001 Date SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual survey made by me or under my supervision and that the same is true and correct to the best of my belief. November 8, 2001 Date Data by Robert JONES Signature Professional Surveyor 7077 W.O. No. 2810 Certificate No. 7977
LOT 13 - 40.0 AC.	LOT 14 - 40.0 AC.	LOT 15 - 40.0 AC.	LOT 16 - 40.0 AC.	
LAT - N32°30'32.2" LONG - W103°12'42.9" 3495.8' 3495.4' 450' 0' 3494.2' 3496.0' 2990'				

PROPOSED WELL PLAN OUTLINE

WELL NAME
LOCATION

State F-1 #14
2990' FSL & 450' FWL, Sec 1, T21S, R38E

Ground Level: 3.504
Kelly Bushing: 11' AGL

Depth MD	FORMATION TOPS (from GL)	DRILLING PROBLEMS	TYPE OF FORMATION EVALUATION	HOLE SIZE	CASING PROGRAM	FRAC GRAD	FORM. PRES. GRAD.	Mud Weight & Type	Days
0									
1		Possible Hole Enlargement & Sloughing		12-1/4"			Less than 8.3	8.4 - 9.5 Fresh	
2									
3									
4									
5									
6									
7									
8									
9									
1000									
1									
2									
3	Too Salt @ 1.365'				8-5/8", 24# J-55 ST&C @ 1,500'				3
4									
5		Washouts in Salt Section		7-7/8"	Circulate Cement			10 Brine	
6									
7									
8									
9									
1000									
1									
2									
3									
4									
5	Base Salt @ 2.530'								
6	Yates 2.674'		Mud Loggers @ 2.600'						
7			H2S monitor equipment on @ 2.600'						
8									
9	7 Rivers 2.934'								
1000									
1									
2									
3									
4									
5	Queen 3.443'								
6	Penrose 3.542'								
7	Gravburd 3.690'								
8									
9	San Andres 3.940'	Mud loss in San Andres is likely. Possible loss of returns.							
1000									
1									
2									
3									
4									
5		Losses as great as 40 bbl likely from 3900' to 6800'.							
6									
7									
8									
9									
1000									
1	Glorietta 5.182'	Possible differential sticking thru Glorietta. Possible lost returns.							7
2									
3									
4									
5									
6									
7	Blinberry 5.770'								
8									
9									
1000									
1									
2									
3	Tubb 6.331'								10
4									
5									
6	Drinkard 6.660'								
7									
8									
9	Abo 6.952'								
1000	TD @ 7000'		First Log Run: HALS-Micro CFL-Cal-GR CNL-DLL-PE-Sonic TD-2500'		5-1/2", 17# L-80 LT&C set @ 7000' Circulate cement either single or 2 stage			10 ooc Starch Gel	
1									
2									
3		Minor mud loss possible upon drilling into Strawn.	Second run GR-CNL-Cal TD-surf 30-60 rotary sidewall cores						
4									
5									
6	Strawn @ 7.729'	Offset data from: State F-1 #9 & #10 Deck Estate 7-1 Oxy State F-1 #1	Possible Third Run: FMI imagine log						
7									
8									
9									
1000								1'	

DATE

19-Nov-01

Al Gomez, Geologist

APPROVED

SLP
Yong Cho, Drilling Engineer

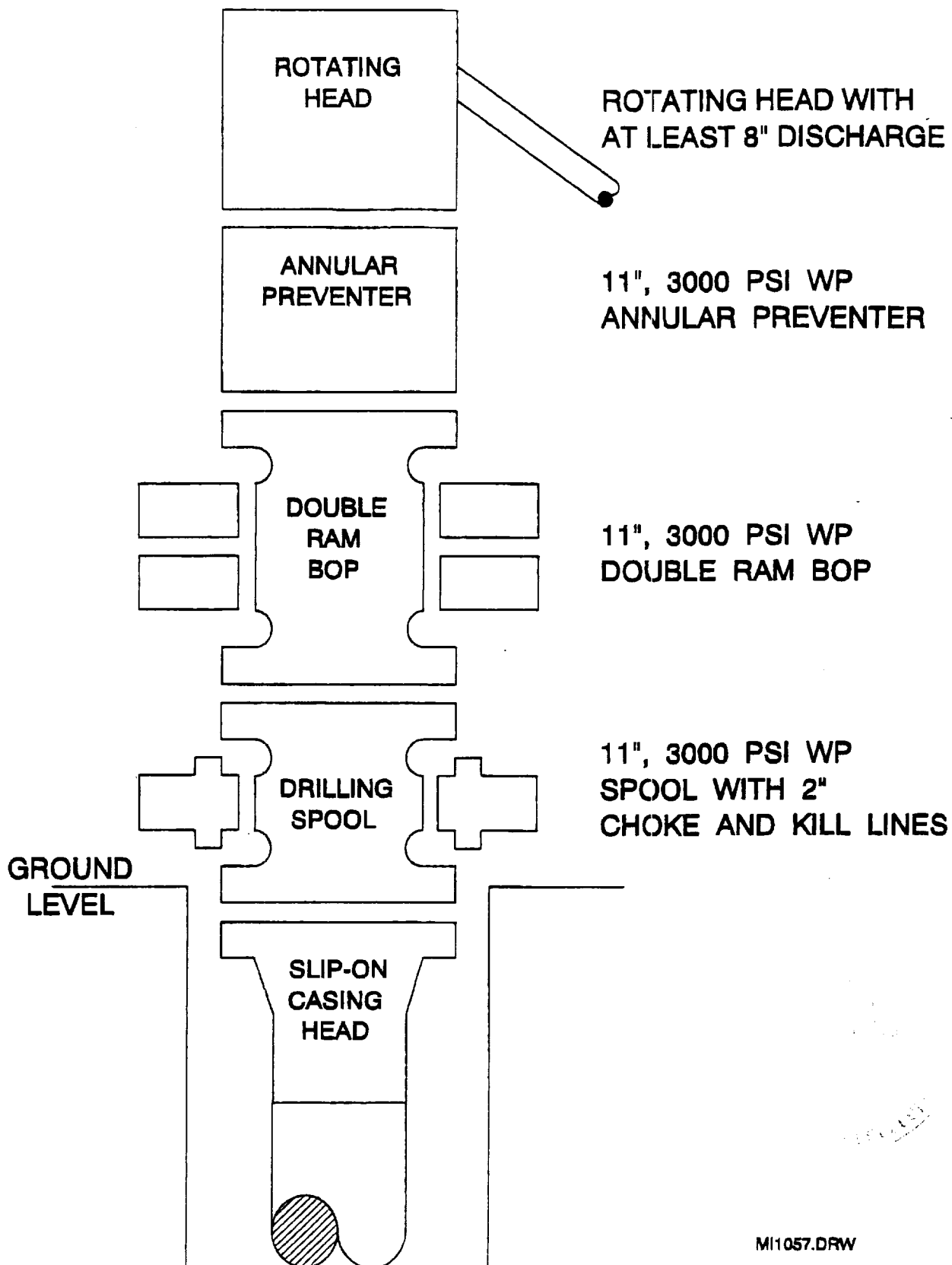
Jim Hubbard, Reservoir Engineer

State F-1 #14
PROPOSED CASING & CEMENT PLAN

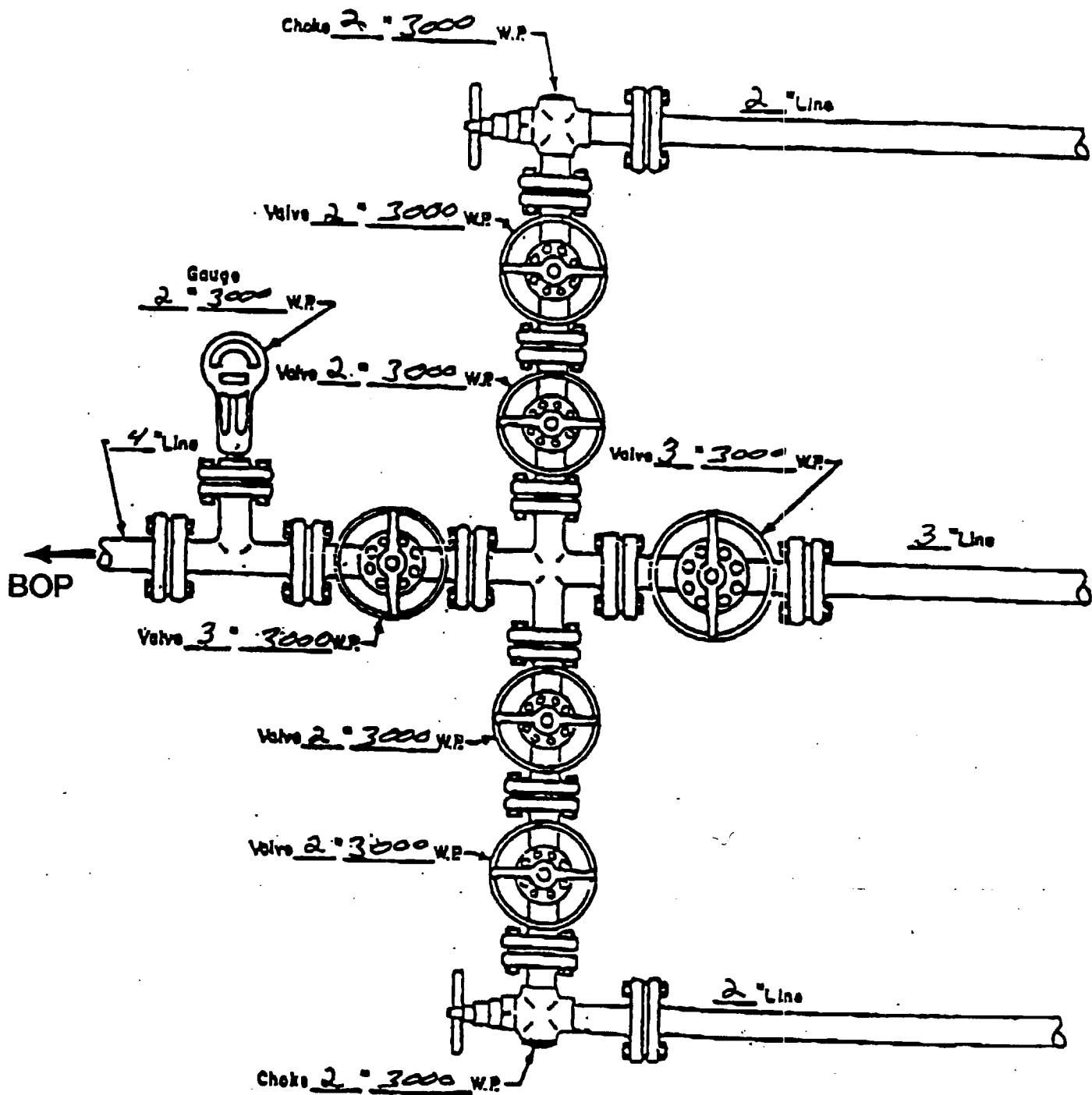
Surface casing size:	8-5/8", 24#, J-55, ST&C	Casing OD:	8.625 in
Surface casing depth:	1,500 ft	Casing ID:	8.097 in
Hole size:	12.25 in	Shoe jt length:	40 ft
Static temperature:	89 deg F	Lead Excess:	101 %
Circulating temperature:	85 deg F	Tail Excess:	106 %
Lead:	465 sx	Cl C + 0.25 pps Cello Flake + 0.005 gps FP-6L + 2% Sodium Metasilicate	
Tail:	200 sx	Cl C + 2% CaCl + 0.005 gps FP-6L	
Properties		Lead	Tail
Slurry Weight (ppg)		12.4	14.8
Slurry Yield (cfps)		2.15	1.34
Mix Water (gps)		12.33	6.35
Pump time - 70 BC (HH:MM)		6:25	2:20
Free Water (mls) @ 80 deg F @ 90 deg angle		0	0
Fluid Loss (cc/30 min) @ 1000 psi and 80 deg F		854	900
Compressive Strength (psi)			
12 hrs @	89 deg F	124	1200
24 hrs @	89 deg F	250	2500

Production casing size:	5-1/2", 17#, L80, LT&C	Casing OD:	5.500 in
Production casing depth:	8,050 ft	Casing ID:	4.892 in
Hole size:	7.875 in	Shoe jt length:	80 ft
Static temperature:	128 deg F	Lead Excess:	51 %
Circulating temperature:	122 deg F	Tail Excess:	51 %
Lead:	565 sx	50:50 Poz:Cl C + 5% bwow NaCl + 0.25 pps Cello Flake + 0.005 gps FP-6L + 10% Bentonite	
Tail:	425 sx	15:61:11 Poz:Cl C:CSIE + 5% bwow NaCl + 1% FL-62 + 0.005 gps FP-6L	
Properties		Lead	Tail
Slurry Weight (ppg)		11.85	13.6
Slurry Yield (cfps)		2.41	1.49
Mix Water (gps)		13.79	7.31
Pump time - 70 BC (HH:MM)		2:58	2:31
Free Water (mls) @ 80 deg F @ 90 deg angle		1	0
Fluid Loss (cc/30 min) @ 1000 psi and 80 deg F		792	62
Compressive Strength (psi)			
12 hrs @	124 deg F	50	1013
24 hrs @	124 deg F	175	1875

BOP SPECIFICATIONS



CHOKE MANIFOLD DIAGRAM



MANIFOLD
3000 #W.P.

☒ Manual
☐ Hydraulic

ABOVE DATE DOES NOT
INDICATE WHEN
CONFIDENTIAL LOGS
WILL BE RELEASED

ELF

6/5/02