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

Submit to appropriate District Office State Lease - 6 Copies

Oil Conservation Division 2040 South Pacheco Santa Fe, NM 87505

Fee Lease - 5 Copies

Form C-101

Revised March 17, 1999

APPL	ICATIO	ON FOR	PERMIT T	O DRILL,	RE-ENTE	R, DEEPEN	, PLUGBA	CK, OR A	ADD A ZONE	
		I	Operator Name an				005073	² OGRID Nui		
	Con	oco Inc., 10	Desta Drive, Suite (649W, Midland,	ΓX 7 9705			³ API Numb		
3 D	+ · C · 1 ·	_		5.5			30 - O25			
00310	ty Code			- F	Property Name State F1			ľ	Well No.	
		_		⁷ Su	rface Location	on		L	12	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West 1	line County	
D/Lot 4	1	218	36E		990'	North	990'	West	1	
7		8	Proposed Bo	ottom Hole	Location If I	Different From	m Surface			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West l	ine County	
	1		Proposed Pool 1				10 Prop	osed Pool 2		
		Sout	h Cass Strawn							
Work '	Type Code	·	12 Well Type Code	;	13 Cable/Rotary	14	Lease Type Code	15	Ground Level Elevation	
	<u>N</u>		0		R		S		3495' 20 Spud Date	
ł	ultiple VO		Proposed Depth 8120'	17 Proposed Depth 8120'		Formation Strawn		4		
·			21	oposed Cas		nent Program			05/29/01	
Hole S	ize	Cas	ing Size	Casing weight		etting Depth	Sacks of C	ement	Estimated TOC	
12 1/2	,,,		5, 8-5/8" 24#			1500'		,	Surface	
7 7/8	3"	J-55	J-55, 5 ½"		17#		995	,	Surface	
22 Describe	the propose	d program.	If this application i	is to DEEPEN or	PLUG BACK, gi	ve the data on the	present productive	e zone and pro	posed new productive	
			ention program, if	•	nal sheets if neces	ssary.				
		_	cation Plat (C-102))						
•	Well Plan (Jutline								
	ig Program oke Diagran	_			Ë	Permit Expir	es 1 Vear I	From Ani	proval	
4. BOF/CIR	oke Diagran	i i				Date Unk	ess Drilling	Underw	ay	
23 Lhereby certi	ify that the i	information	given above is true	and complete to	the					
best of my know			5.7511 40070 13 1140	and complete to	, inc	OIL CO	NSERVAT	ION DIV	ISION	
Signature:	mber	_	enthell		Approv	ed by:		2 2 .4/	CH COLAN	
Printed name:	Kimberly S				Title:	-		<u> </u>	a <u>cción ma</u> D	
Title: Associat	es Assistant				Approv	al Date:	Е	Expiration Date	e:	
Date: 03/28/	/01		Phone: 915/6	686-5565	Conditi	Conditions of Approval:				

Attached

DISTRICT I P.O. Box 1980, Hobbs, NM 88240

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised February 10, 1994 Instruction on back

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

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

OIL CONSERVATION DIVISION

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

API Number

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

Pool Code

API Number			Pool Code			Pool Name				
30-025-35480			104	40		South Cass - STRAWN				
Property Code			Property Name				Well Number			
003105			STATE "F-1"					12		
OGRID N		Operator Name						Elevation		
005073			CONOCO INC.					3495		
	Surface Location									
UL/or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
LOT 4	1	21 S	36 E		990	NORTH	990	WEST	LEA	
7	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	
						1				
Dedicated Acre	Joint o	r Infill Co	nsolidation (Code Or	der 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

		<u> </u>				
	37.76 AC	LOT 3 37.47 AC	LOT 2 37.19	AC LOT	1 36.90 AC	OPERATOR CERTIFICATION I hereby certify the the information
	3495.4' 3494			i i		contained herein is true and camplete to the best of my knowledge and belief.
	-990' 	.o'		 - 		Signature Maddex
Lot :		LOT 6 LAT. N32*31'09.3" LONG. W103*13'26.7"	LOT	7	LOT 8	Regulatory Agent
	 			 		Title 3/26/01 Date
						SURVEYOR CERTIFICATION
	LOT 12 	LOT 11	LOT	10 	LOT 9	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 supervison, and that the same is true and correct to the best of my belief.
		:		1		MARCH 20, 2001 Date Surveyed
LOT 1		LOT 14	LOT 15	LOT 16	*	Signature & Seal of Professional Surveyor W.O. No. 1234
1/4 COR	·				1/4 COR.	Certificate No. Gpry L. Jones 7977 JLP BASIN SURVEYS

PROPOSED WELL PLAN OUTLINE

3,509' (est) 11' AGL Ground Level: WELL NAME State F-1 #12 990' FNL & 990' FWL, Sec 1, 1, 21S & R36E Kelly Bushing: FORMATION FORM Mud CASING PROGRAM Days TOPS (from GL) FORMATION EVALUATION HOLE FRAC Weight & Type PRES. Depth DRILLING GRAD GRAD **PROBLEMS** MD SIZE 8.4 - 9.5 12-1/4 Possible Hole Enlargement Less than 8.3 Fresh & Sloughing 8-5/8", 24#, J-55 ST&C @ 1,500' Circulate Cement 3 Top Salt @ 1,380' Washouts in Salt Section 7-7/8 Brine 2000 Less than 8.4 Mud Loggers @ 2,600' Base Salt @ 2,570' Yates 2,685' H2S monitor equipment on @ 2,600' 7 Rivers 2,950' 3000 Queen 3,465' Penrose 3,590' Grayburg 3,735' San Andres 3,920' 4000 Mud loss in San Andres is likely. Possible loss of Ireturns. 5000 7 Possible differential sticking thru Glorietta Glorietta 5,190' Possible lost returns. Losses as great as 40 bph likely from 4000' to 6800'. Blinebry 5,870' 6000 Tubb 6,400' 10 Drinkard 6,710' 10 ppg First Log Run: 7000 GR-CAL-DLL-MLL-SGR-SONIC Starch Gel FDC-CNL-PE: TD to 2000' Abo 7,020' Pull GR-CNL-Cal to Surf SGR interval to be chosen Minor mud loss possible upon drilling into Strawn. Second Log Run: 60 rotary sidewall cores

5-1/2", 17#, J-55 LT&C set @ 8,120'

Circulate cement

either single or 2

stage

	. 1	
DATE	28-Mar-01	Al Gomez, Geologist
APPROVED	David Delao, Drilling Engineer	Jim Hubbard, Reservoir Engineer

Possible Third Run:

FMI imaging log

Strawn @ 7,602

8000 TD @ 8,120

Offset data from: State F-1 #9 & #10

Deck Estate 7-1

Oxy State F-1 #1

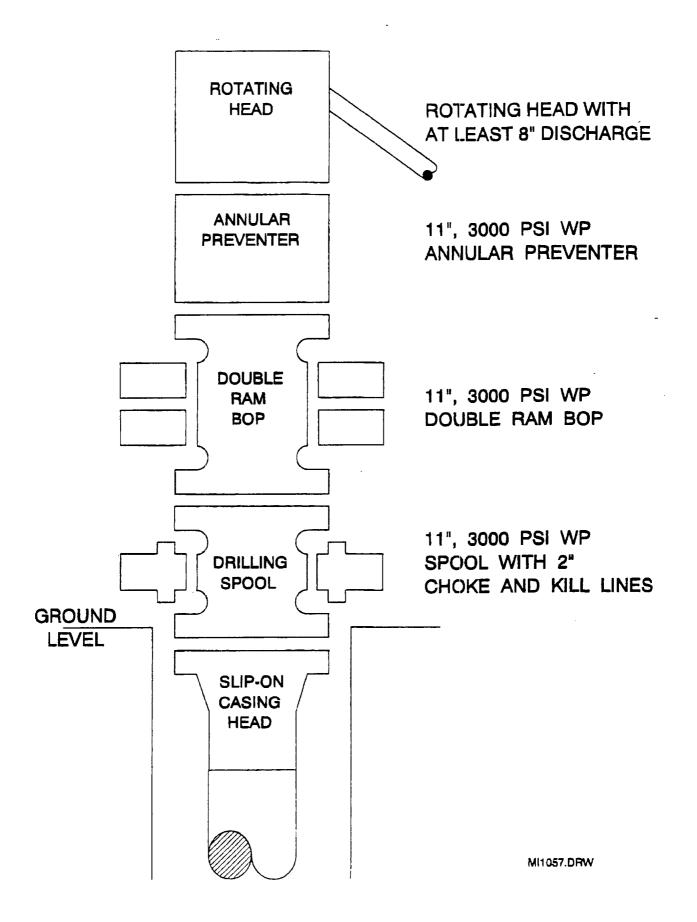
18

State F-1 #12 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	CI C + 0.25 pps + 2% Sodium M	: Cello Flake + 0.005 gps FP-6L letasilicate
Tail:	200 sx	CIC + 2% CaCI	+ 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 angl	e	0	0
Fluid Loss (cc/30 min) @ 1000 psi and 80 d	eg 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#, J55	, LT&C	Casing OD:	5.500 in
Production casing depth:	8,120 ft	Casing ID:	4.892 in
Hole size:	7.875 in	Shoe jt leng":h:	80 ft
Static temperature:	129 deg F	Lead Excess:	51 %
Circulating temperature:	122 deg F	Tail Excess:	51 %
Lead:	570 sx	50:50 Poz:CI C +	+ 5% bwow NaCl + 0.25 pps
		Cello Flake + 0.0	005 gps FP-6L + 10% Bentonite
Tail:	425 sx	15:61:11 Poz:Cl	C:CSE + 5% bwow NaCl +
		1% FL-62 + 0.0	05 gps FP-6L
Properties		Lead	<u>Tail</u>
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

BUP SPECIFICATIONS



CHOKE MANIFOLD DIFGRAM

