DATE IN 4/29/98 SUSPENSES/19/98 ENGINEER A DC LOGGED BY W TYPE DHC
NEW MEXICO OIL CONSERVATION DIVISION - Engineering Bureau -
ADMINISTRATIVE APPLICATION COVERSHEET
THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS
Application Acronyms: [NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location] [DD-Directional Drilling] [SD-Simultaneous Dedication] [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]
[1] TYPE OF APPLICATION - Check Those Which Apply for [A] [A] Location - Spacing Unit - Directional Drilling [A] NSL INSL NSP [A] SD
Check One Only for [B] and [C] [B] Commingling - Storage - Measurement DHC CTB PLC PC OLS OLM
[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply [A] Working, Royalty or Overriding Royalty Interest Owners
[B] I Offset Operators, Leaseholders or Surface Owner
[C] Application is One Which Requires Published Legal Notice
[D] Dotification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
[E] \Box For all of the above, Proof of Notification or Publication is Attached, and/or,
[F] 🖸 Waivers are Attached

[3] INFORMATION / DATA SUBMITTED IS COMPLETE - Statement of Understanding

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I understand that any omission of data, information or notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with supervisory capacity.

Kay Maddox Print or Type Name

4 Maddox

Regulatory Agent

1/24/98

DISTRICT I

PO Box 1980, Hobbs, NM 88241 1980

SITRICT II

811 SouthI First St. Artesia NM 88210 2835

DISTRICT III

OGRID NO.

1000 Rio Brazos Rd. Aztec, NM 87410 1693

State of New Mexico Energy, Minerals and Natural Rasources Department OIL CONSERVATION DIVISION

Form C-107-A New 3-12-96

APPROVAL PROCESS: Administrative Hearing

2040 S. Pacheco Santa Fe, New Mexico 87505-6429

APPLICATION FOR DOWNHOLE COMMINGLING

EXISTING WELLBORE YES NO

_	Conoco	Inc.
_		

10 Desta Dr. Ste 100W, Midland, Tx. 79705-4500 Addre

Section 36, T-26-N, R-4-W, D Rio Arriba #13M Jicarilla B County Well No. Unit Ltr Sec Twp Rge Lease Spacing Unit Lease Types: (check 1 or more) 005073 Property Code Federal 🛛 , State 🔲 (and/or) Fee 🔛

API NO.

intermediate Zone Lower Zone Upper Zone The following facts ate submitted in support of downhole commingilng: **Basin Dakota** Blanco Mesaverde 1. Pool Name and Pool Code 71599 72319 2. TOP and Bottom of Pay Section (Perforations) 7908-8132' 5818-6282' e of production (Oil or Gas) 3. Type Gas Gas 4. Method of Production {Flowing or Artificial Lilt} To Flow To Flow 5. Bottomhole Pressure a (Current) a a. Oil Zones - Artilicial Lift: Estimated Current 1087 643 Gas & Oil - Flowing: Measured Current b(Original) b. b Estimated Or Measured Original 1322 2477 6. Oil Gravity (°API) or Gas BT Content 1281 1308 7. Producing or Shut-in? To be Completed To be Completed Yes (expected) Yes (expected) Production Marginal? (yes or no) If Shut-In give date and oil/gas/ water rates of Isst production Date Date Date Rates Rates Rutes Note For new zones with no production hIStorv appilcant shad be required to attach production estimates and supporting dara Anticipated 1st Yr Anticipated 1st Yr If Producing, date and oil/gas/ water rates of recent test (within 60 days) Dale Dale Date average Average Rates Rates Rates 183 MCFD, 1.4 BOPD 288 MCFD, 4.5 BOPD 8. Fixed Percentage Allocation Formula -% or each zone oil Gas Gas Gas % % % % %

If allocation formula is based upon something other than current or past production, or is based upon some other method, submit attachments with supporting data and/or explaining method and providing rate projections or other required data.

10. Are all working, overriding, and royalty interests identical in all commingled zones? If not, have all working, overriding, and royalty interests been notified by certified mail? Have all offset operators been given written notice of the proposed downhole commingling?

X Yes No Yes No X Yes No 11. Will cross-flow occur? No If yes, are fluids compatible, will the formations not be damaged, will any cross-X Yes flowed production be recovered, and will the allocation formula be reliable. X Yes No (If No, attach explanation)

ORDER NO(S).

12. Are all produced fluids from all commingled zones compatible with each others X Yes ___ No

13. Will the value of production be decreased by commingling?	Yes _X_No	(If Yes, attach explanation)
---------------------------------------------------------------	-----------	------------------------------

14. If this well is on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bureau of Land Management has been notified in writing of this application. X Yes No

15. NMOCD Reference Cases for Rule 303(D) Exceptions:

16. ATTACHMENTS

* C-102 for each zone to be commingled showing its spacing unit and acreage dedication. * Production curve for each zone for at least one year. (If not available, attach explanation.) * For zones with no production history, estimated production rates and supporting data. * Data to support allocation method or formula. * Notification list of all offect operators

Notification list of all offset operators.
Notification list of working, overriding and royalty interests for uncommon interest cases.
Any additional statements, data, or documents required to support commingling.

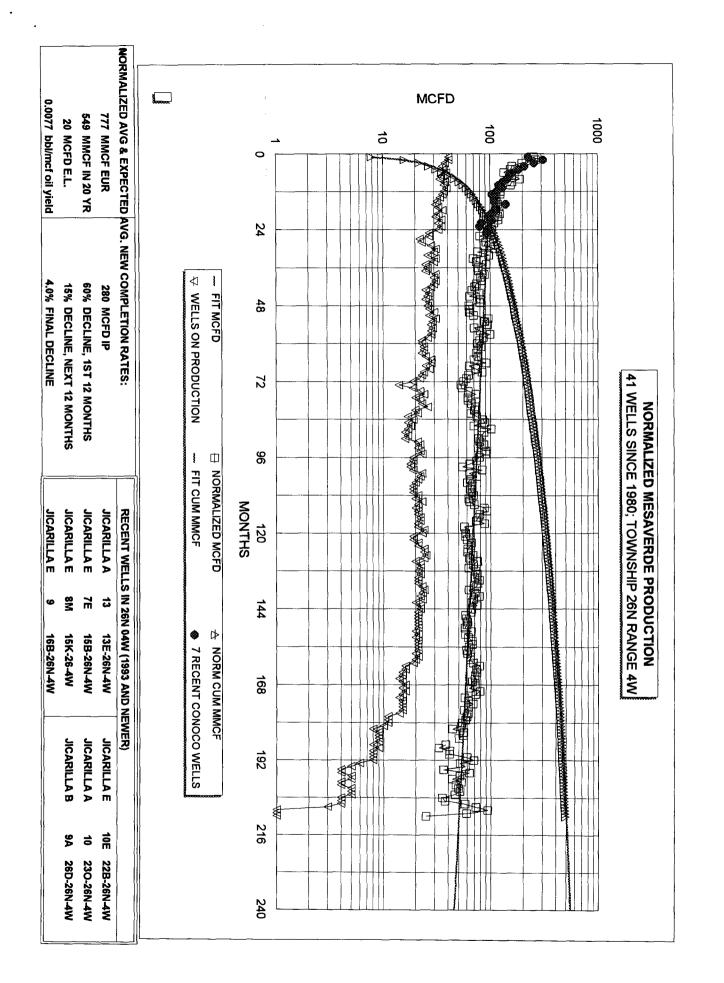
I hereby certify that the information above is true and complete to the best of my knowledge and belief.

signature <u>Kay Maddac</u>	Regulatory Agent	DATE _	2/24/98
TYPE OR PRINT NAMEKay Maddox	 TELEPHONE NO.	<u>(915)</u>	686-5798

APPLICATION FOR DOWNHOLE COMMINGLING Jicarilla B 13M, Unit Letter D, Section 36-T26N-R4W Rio Arriba County, New Mexico

As shown in the attached production plot for offsets to the Jicarilla B 13M, estimated ultimate recoveries and initial production rates from infill wells to the Dakota and Mesaverde formations are clearly marginal in this area. Mesaverde estimated recoveries in particular do not justify drilling stand alone wells (549 MMCF recovery in 20 years, 777 MMCF ultimate recovery). Futhermore, production plots from each zone indicate a similar decline profile and a fixed allocation formula can be utilized. Upon completion, both zones will be tested and stabilized flow rates will be used to allocate production from each zone. This procedure is common practice in Conoco's 28-7 Unit and reference is made to Order R-10476-B as it applies to downhole commingling of marginal zones and the allocation of production between such zones.

04/17/98 11:37 AM 1 264MV97A.WK4 \



PREPARED BY: PDB

NORMALIZED AVG AND EXPECTED NEW COMPLETION AVG: 0.0167 bbl/mcf oil yield MCFD 1221 MMCF EUR 804 MMCF IN 20 YRS 20 MCFD E.L. 1000 100 10 0 24 And And A second and a second and A ➡ WELLS ON PRODUCTION - FIT MCFD 48 60% DECLINE, 1ST 12 MONTHS **15% DECLINE, NEXT 12 MONTHS** 410 MCFD IP **4% FINAL DECLINE** 39 WELLS SINCE 1980; 26N-4W (MERIT JICARILLA A, B, & E OFFSETS) AND ALL Constrainty of the second s 72 **NORMALIZED DAKOTA PRODUCTION** H NORMALIZED MCFD 8 FIT CUM MMCF 120 MONTHS Martin Martin Martin 144 **JICARILLA E 7E JICARILLA E 8M RECENT WELLS (1993 AND NEWER):** A NORM CUM MMCF **JICARILLA E 7E & 8M** The second se 168 15K-26N-4W 15B-26N-4W 192 4 216 240

PREPARED BY: PDB

04/17/98 11:36 AM 1 264DKNO2.WK4 \

maran Stad A Second Ch	UNIT DEPARTMEN	ED STATES	SUBMITIN TRI Other instruct reverse sid	1011 01	FORM APPROVED OMB NO. 1004-0136 Expires February 28, 1995			
	S LEASE DSIGNATION AND SERIAL NO							
	Cont. 106							
APPLI	6 IF INDIAN, ALLOTTEE OR TRIBE NAME							
LE TYPE OF WORK					Jicarilla			
DRI b TYPE OF WELL	п.е. 🛛	Deepen 🗌			7 UNIT AGRREEMENT NA	ме		
	AS OTHER				8 FARM OR LEASE NAME WELL NO			
2. NAME OF OPERATOR	Conoco Inc.		· · · · · ·	L	Jicarilla B-	13M		
					9. API WELL NO			
a. ADDRESS AND TELEPHONE NO			ها، چېنې و چې					
	Dr. Ste 430E, Midlan				10. FIELD AND POOL, OR WILDCAT			
4. LOCATION OF WELL At surface	L (Report location clearly a				Blanco MV/Basin Dakota			
11. 301.000		1060' FNL & 1	040' FWL	ľ	11. SEC, T., R., M., OR BLK. AND SURVEY OR AREA			
At proposed prod. zon	e	1060' FNL & 1	040' FWL		Sec. 36, T26N, R4W			
14. DISTANCE IN MILES A	ND DIRECTION FROM NEA	EST TOWN OR POST O	FICE.		12 COUNTY OR PARISH	13. STATE		
					Rio Arriba	NM		
5. DISTANCE FROM PROPO		16	NO OF ACRES IN LEASE	17. NO. OF	ACRES ASSIGNED	· · · · · · · · · · · · · · · · · · ·		
LOCATION TO NEARES PROPERTY OR LEASE	LINE, FT.				IS WELL 320			
(Also to nearest dri 8. DISTANCE FROM PROP		19.	PROPOSED DEPTH	20. ROTAR	ARY OR CABLE TOOLS			
TO NEAREST WELL, DI OR APPLIED FOR, ON TH			8432'	Rotary				
21. ELEVATIONS (Show wh		22. APPROX. DATE WORK WILL START*						
		1/1/98						
2 3		PROPOSED CASING	AND CEMENTING PROGRAM	[
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMENT			
12-1/4"	K-55, 9-5/8"	36#	300'	170 sxs, circ.				
8-3/4"	K-55, 7"	23#	3973'	555 sxs, circ.				

It is proposed to drill a vertical wellbore to be downhole commingled in the Blanco Mesaverde and Basin Dakota Pools following the acquisition of sufficient production test data for allocation purposes. A downhole commingling application will be filed with the BLM and OCD prior to commingling. An NOS was filed 1/29/97. The well will be drilled and equipped according to the following additional attachments:

8132'

515 sxs, toc @ 3500'

11.6#

1. Well Location & Acreage Dedication Plat (C-102).

K-55, 4-1/2"

- 2. Proposed Well Plan Outline.
- 3. Cementing Plan.

6-1/4"

- 4. Blowout Preventer Hookup.
- 5. Surface Use Plan with Production Facility layout.
- 6. 7.5" quandrangle Topo Map.
- 7. Wellsite Layout.
- 8. Cut & Fill Diagram.
- 9. Access Road Plat.

This application includes ROW's for the well pad and access road.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertipent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

\$10 NED	Mility	ah	Mike L. Mankin TITLE Right of Way Agent	DATE	12/14/97
(This space	of Federal or State	r office USE)			

PERMIT NO _

APPROVAL DATE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those righs in the subject lease which would entitle the applicant to conduct operations thereon. CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY INDERTER. VILLA LIS TITLE A MA	lange DATE 1/5/9	8
*See Instructions On Reve	rse Side	_

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as 10 any matter within its jurisdiction.

10, Hubbs, NM 882 II Frawer DD, Artenia, NM Juriet III 1000 Rio Brezos Rd., Aziec, N District IV (*) Bus 2008, Seats Fe, NM 2	88211-0719 (51 87410 17504-2088	State of New Mexico Energy, Minerals & Natural Renources Department OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088			Form C-002 Revised February 21, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies AMENDED REPORT				
API Number		L LOCATION	AND ACR	EAGE DEDIC	CAT	Pool No			
		71.599/7	2319	Basin Da	kot	a/Blanco Mesaverde			
* Property Code			' Property			* Well Number			
18018 'OGRID No.		Ji	carilla 'Operator			13M			1 3M
05073		CO	NOCO, IN						7089'
L			¹⁰ Surface	Location			'	······································	
UL or lot no. Section		Range Lot Ida	Feet from the	North/South line		t from the	EAM/West		County
D 36	26-N	4-W	1060	North Different Fro		1040 Surface	We	st	R.A.
UL or lot Bo. Section		Range Lot Idn	Fort from the	North/South line		t from the	East/West	line	County
W/320 NO ALLOWABLE V	WILL BE AS	·						EN COI	NSOLIDATED
1040'		5280.00			5280.00'	I hereby certi, irue and com, Signature Mike Printed Nam Right Title 18 SURV I hereby corti, was plotted fo	by that the inj older to the b L: Manle -of-Way EYOR by that the un more than the un tight actual to a first the source of my b 12/1 Scal of Free Scal of Free Scal of Free	CERT de location (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an) (an)	TFICATION Second and plan Second and p

Jicarilla B # 13M Section 36, T-26-N, R-4-W, Rio Arriba County, TX

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RE: Application C-107A to Downhole Commingle

Notification of Offset Operators:

Beartooth Oil & Gas PO Box 2564 Billings, Montana 59103

Chateau Oil & Gas 2515 McKinney Ave STE 840 Dallas, TX 75201

A copy of the C-107A has been sent to the above listed parties