	30 98	SUSPENSE 4/20/98 ENGINEER DC LOGGED BY W TYPE DHC
		ABOVE THIS LINE FOR DIVISION USE ONLY
		NEW MEXICO OIL CONSERVATION DIVISION - Engineering Bureau -
		ADMINISTRATIVE APPLICATION COVERSHEET
	THIS COVER\$H	HEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS
Applicatio	[PC-	[NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location] [DD-Directional Drilling] [SD-Simultaneous Dedication] wwnhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] 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] ualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]
[1] 1	TYPE OF AI [A]	PPLICATION - Check Those Which Apply for [A] Location - Spacing Unit - Directional Drilling NSL NSP DD SD
	Check [B]	Commingling - Storage - Measurement
	[C]	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
[2]]	NOTIFICAT	TION REQUIRED TO: - Check Those Which Apply, or Does Not Apply Working, Royalty or Overriding Royalty Interest Owners
	[B]	Offset Operators, Leaseholders or Surface Owner
	[C]	Application is One Which Requires Published Legal Notice
	[D]	U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
	[E]	Given For all of the above, Proof of Notification or Publication is Attached, and/or,
	[F]	U Waivers are Attached
[3]	INFORMAT	TION / 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

Madden Regulatory Agent Title

3/26/98

DISTRICT |

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PO Box 1980, Hobbs, NM 88241 1980

SITRICT II

811 SouthI First St. Artesia NM 88210 2835 DISTRICT III

1000 Rio Brazos Rd. Aztec, NM 87410 1693

State of New Mexico Energy, Minerals and Natural Rasources Department

APPLICATION FOR DOWNHOLE COMMINGLING

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

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

APPROVAL PROCESS: Administrative Hearing

EXISTING WELLBORE VE 8 🕅

YES	M	NC

Conoco Inc. Operat

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

Ludwick LS	#21M Section		Section 31, T-30-N,	Section 31, T-30-N, R-10-W, C		
Lease		Well No		Unit Ltr Sec Twp Rge		County
					Spacing Unit	Lease Types: (check 1 or more)
OGRID NO. 005073	Property Code		API NO.		Federal 🛛 🛛	, State 🔲 (and/or) Fee 🗌

The following facts ate submitted in support of downhole commingilng:	Upper Zone	intermediate Zone	Lower Zone
1. Pool Name and Pool Code	Blanco Mesaverde 72319		Basin Dakota 71599
2. TOP and Bottom of Pay Section (Perforations)	4400-5000'		6865-6965'
3. Type of production (Oil or Gas)	Gas	· · · · · · · · · · · · · · · · · · ·	Gas
4. Method of Production {Flowing or Artificial Lilt}	Expected Flowing		Expected Flowing
5. Bottomhole Pressure	a (Current)	a.	a.
Oil Zones - Artilicial Lift: Estimated Current	609		768
Gas & Oil - Flowing: Measured Current All Gas Zones:	b(Original)	b.	b.
Estimated Or Measured Original	1229		2493
6. Oil Gravity (°API) or Gas BT Content	1200est		1200est
7. Producing or Shut-In?			
Production Marginal? (yes or no)	No		Yes
If Shut-In give date and oil/gas/ water rates of Isst production Note For new zones with no production hiStory applicant shad be required to attach production	Date Rates	Date Rates:	Date Rates
estimates and supporting dara • If Producing, date and oil/gas/ water rates of recent test (within 60 days)	Dale To be supplied upon Rates Completion	Dale Rates	Date To be supplied upon Rates Completion
8. Fixed Percentage Allocation Formula -% or each zone	(oil: % 6.85 % %	oil: G85 % %	0il: Gas % %

9. 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 No XYes

No

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

ORDER NO(S).

12. Are all produced fluids from all commingled zones compatible with each others χ Yes

_Yes <u>×</u>No 13. Will the value of production be decreased by commingling? (If Yes, attach explanation)

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.

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 offset 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.

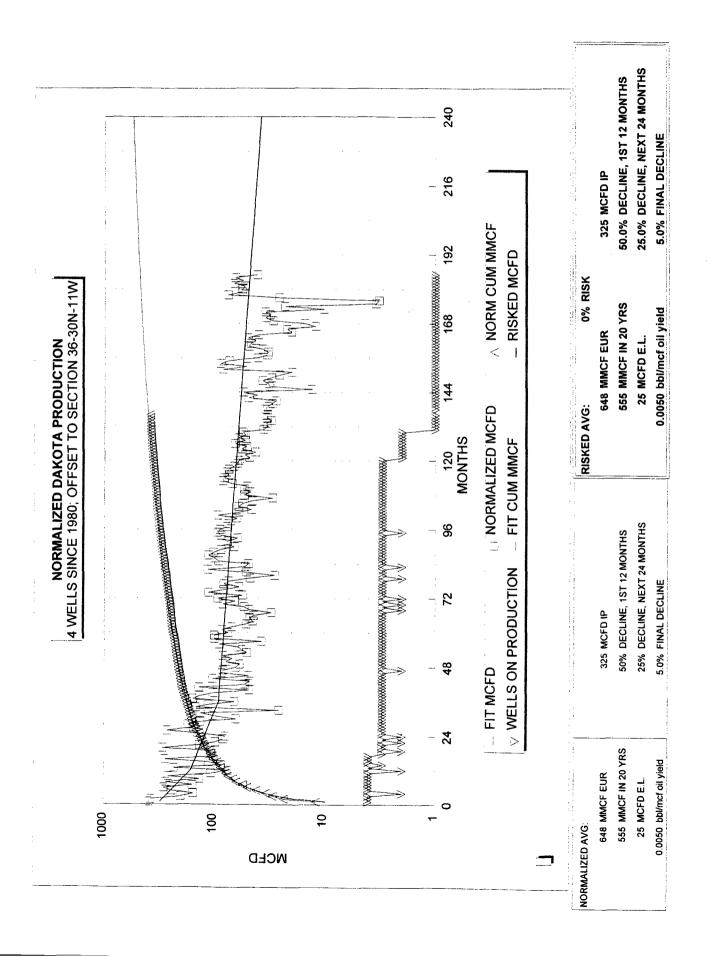
SIGNATURE	Kay Maddar	Regulatory Agent	DATE	3/26/98
TYPE OR PRINT NAME_	Kay Maddox	TELEPHONE NO.	(915)	686-5798
				000 5170

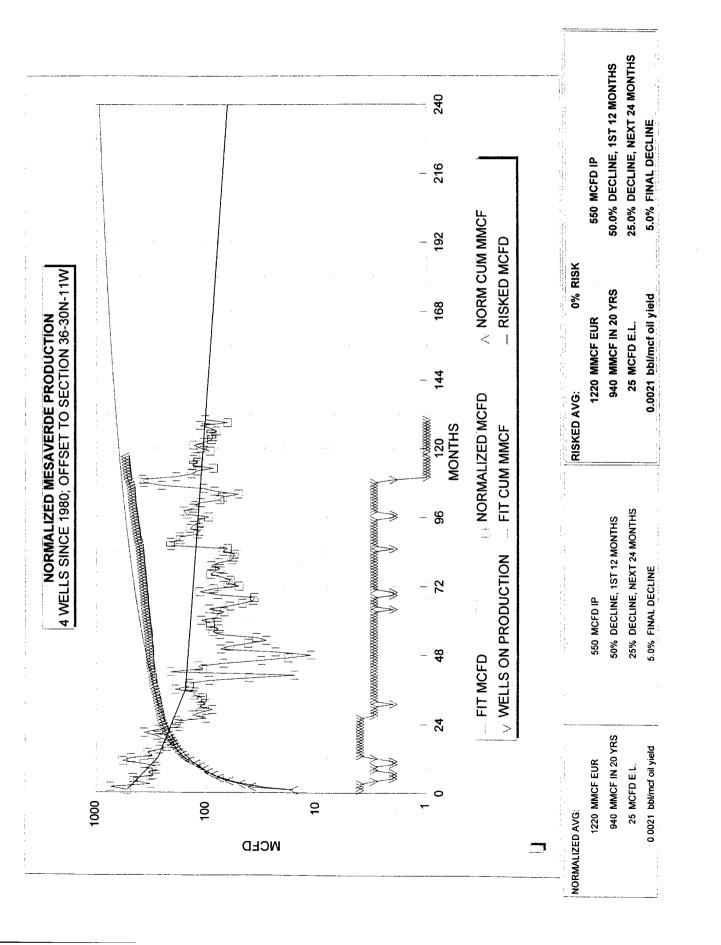
APPLICATION FOR DOWNHOLE COMMINGLING Ludwick LS 21M (31C 30N 10W)

As shown in the attached production plot for offsets to the Ludwick LS 21M, estimated ultimate recoveries and initial production rates from infill wells to the Dakota formation are insufficient to justify drilling stand alone wells. Furthermore, 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 Burlington's 29-7 Unit and reference is made to Order R-10697 as it applies to downhole commingling of marginal zones and the allocation of production between such zones.



Prepared by: SWJ





Prepared by: SWJ

District I PO Box 1980, Hobbs, NM 88241-1980

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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

WELL LOCATION AND ACREAGE DEDICATION PLAT

State of New Mexico

OIL CONSERVATION DIVISION PO Box 2088

Santa Fe, NM 87504-2088

Energy, Minerals & Natural Resources Department

Form C-102

AMENDED REPORT

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

'API Number							Pool Nam							
Property Code				*Property Name *Well Numbr										
				LUDWICK LS 21M										
	'OGRID N					•ope CONC	erator N CO.	lame INC.				_	levation 5085 '	
	10507.	3				⁰ Surfa		ocation						<u></u>
1	lot no.	Section	Township	Range	Lot Ian	Feet from	the	North/South line		t from the	East/We		County	
	С	31	30N	10W		820	I			1605			SAN JU	AN
UL or	lot no.	Section	11 B(ottom Range	Hole L	OCatio		Different North/South line)M Surf It from the	OCE East/We	st line	County	
	cated Acres					¹³ Joint	or Infill	¹⁴ Consolidation Cod	e [1	Order No.	.			
L	320													
	ALLOW	ADLE W		NON-ST	ANDARD	UNIT HA	S BEE	I UNTIL ALL N APPROVED	BY 1	HE DIVI	SION	EN LUN	SULIDATE	U
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	1605	5'					İ				1	1		
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518			 1 1							Signatur	<u>e</u>	/ [m		
56									<u>Mike L. Mankin</u> Printed Name			n		
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							1		ס	Title	5.5.	98		
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									ŋ	was plotted f or under my s correct to th	SUDELV1510A, 8	ind that the	on shown on this 1 surveys made by same is true and	y me 5
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	1156.	32 '	1284.	36		2	644.8	52 '		Certific	at KOYUM	Der ONAL		

Form 3160-3 (July 1992)	UNITED STATES (O ther instructions reverse side)				FORM APPROVED OMB NO. 1004-0136 Expires February 28, 1995		
	DEPARTMEN	EPARTMENT OF THE INTERIOR				ND SERIAL NO	
	BUREAU OF	LAND MANAGEM	ENT		SF 0781	94	
APPL	ICATION FOR PE	ERMIT TO DRI	LL OR DEEF	PEN	6 IF INDIAN, ALLOTTEE	OR TRIBE NAME	
1a. TYPE OF WORK D R	ILL 🛛				7 UNIT AGRREEMENT NA	ME	
b. TYPE OF WELL	GAS WELL OTHER				8. FARM OR LEASE NAME WEL	LNO	
2. NAME OF OPERATOR	WELL COMER		ZONE	ZONE	LUDWICK L	S #21M	
	Conoco Inc.				9. APIWELL NO	0 #21141	
a. ADDRESS AND TELEPHONE NO)						
10 Desta	Dr. Ste 430E, Midland	d, Tx. 79705-4500	915-6	86-5794	10. FIELD AND POOL, OR WILDCAT		
4. LOCATION OF WEL	L (Report location clearly a				Blanco MV / Basin Dakota		
At surface		820' FNL & 16	05' FWL		11. SEC, T., R., M., OR BLK. AND SURVEY OR AREA		
At proposed prod. 20	ne	820' FNL & 16	05' FWL		Sec. 31, T30N, R10W		
14. DISTANCE IN MILES	AND DIRECTION FROM NEA	EST TOWN OR POST OF	ICE.		12 COUNTY OR PARISH	13. STATE	
					San Juan	NM	
5. DISTANCE FROM PROP	OSED*	161	NO OF ACRES IN LE		F ACRES ASSIGNED HIS WELL		
PROPERTY OR LEASE	ST LINE, FT. lg. unit line, if Any)				320		
8. DISTANCE FROM PROI	POSED LOCATION* DRILLING, COMPLETED,	19.	PROPOSED DEPTH	20. ROTA	RY OR CABLE TOOLS		
OR APPLIED FOR, ON TH	HIS LEASE, FT,		7392'		Rotary		
21. ELEVATIONS (Show W	hether DF, RT, GR, etc)				22. APPROX. DATE WO	RK WILL START*	
	4/15/9	8					
2 3		PROPOSED CASING A	ND CEMENTING PR	OGRAM			
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEI	тн	QUANTITY OF CEMENT		
12-1/4"	K-55, 9-5/8"	36#	250'		135 sxs, circ.		
8-3/4"	K-55, 7"	23#	2800'		335 sxs, circ.		
6-1/4"	K-55, 4-1/2"	9.5#	7092'		470 sxs, toc @ 2600'		

It is proposed to drill a vertical wellbore to the Blanco Mesaverde and Basin Dakota Pools. NOS was filed 2/21/98. The well will be drilled and equipped according to the following additional attachments:

- 1. Well Location & Acerage Dedication Plat (C-102).
- 2. Proposed Well Plan Outline.
- 3. Cementing Plan.
- 4. Blowout Preventer Hookup.
- 5. Surface Use Plan with Production Facility Layout.
- 6. Pipeline survey plat.

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

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 pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

SIGNED THAT AMAK	Mike L. Mankin Right-of-Way Agent	DATE March 3, 1998
(This space for Federal or State office use)		
PERMIT NO	APPROVAL DATE	
Application approval does not warrant or certify that the app CONDITIONS OF APPROVAL, IF ANY:	vlicant holds legal or equitable title to those righs in the subject lease whic	th would entitle the applicant to conduct operations thereon
APPROVED BY		DATE

*SeeInstructions On Reverse 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 16 any matter within its jurisdiction.

Conoco, Inc. Ludwick LS #21M Section 31, T-30-N, R-10-W, C San Juan, New Mexico

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RE: Application to Downhole Commingle (C-107A)

Notification Of Offset Operators:

Dugan Production Corp. PO Box 420 Farmington, NM 87499-0420

Amoco PO Box 800 Denver, CO 80201

Burlington Resources PO Box 4239 Houston, TX 77210-4239