<u>DISTRICT</u> I

8/TRICT II

r O Box 1980, Hobbs, NM 88241 1980

811 Southl First St. Artesia NM 88210 2835

State of New Mexico Energy, Minerals and Natural Rasources Department

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

OIL CONSERVATION DIVISION

Santa Fe, New Mexico 87505-6429

APPROVAL PROCESS:

DISTRICT III APPLICATION FOR DOWNHOLE COMMINGLING 1000 Rio Brazos Rd. Aztec, NM 87410 1693

Administrative Hearing EXISTING WELLBORE YES NO

Conoco Inc.		10 Desta Dr. Ste 100W, Midlar	nd, Tx. 79705-4500
Ludwick LS Lease	#16M	Section 31 T-30-N R-10-N	
OGRID NO 005073 Property Co		III LII Sec I wp Rge	County ng Unit Lease Types. (check 1 or more)
The following facts ate submitted in support of downhole commingilng:	Upper Zone	intermediate Zone	Lower Zone
Pool Name and Pool Code	Blanco Mesaverde 72319		Basin Dakota
TOP and Bottom of Pay Section (Perforations)	4245-4845'	DEGEOMED	71599
3. Type of production (Oil or Gas)	Gas	MAR 3 0 1995	6705-6805'
Method of Production {Flowing or Artificial Lilt}	Expected Flowing	OIL COM. DIV.	Gas Expected Flowing
5. Bottomhole Pressure	a (Current)	a. DUST. 3	a.
Oil Zones - Artilicial Lift: Estimated Current	607		
Gas & Oil - Flowing: Measured Current All Gas Zones:	b(Original)	b.	765
Estimated Or Measured Original	1224	0.	b.
6. Oil Gravity (°API) or	1224		2482
Gas BT Content	1200 est		
7. Producing or Shut-In?	1200 CSI		1200 est
Production Marginal? (yes or no)	No		Yes
If Shut-In give date and oil/gas/ water rates of lsst production	Date	Date	Date
Note For new zones with no production history applicant shad be required to attach production	Rates	Rates:	Rates
If Producing, date and oil/gas/ water rates of recent test (within 60 days)	To be supplied upon completion	Dale Rates	To be supplied upon completion
8. Fixed Percentage Allocation Formula -% or each zone	oil: Gas %	ont Gas %	Oil: Gas
If not, have all working, overriding, and Have all offset operators been 1. Will cross-flow occur?	royalty interests identical in a ting, and royalty interests bee given written notice of the prop	all commingled zones? In notified by certified mail? Cosed downhole commingling?	tions or other required data X Yes No Yes No X Yes No
	and this the allocation longit	na be reliable. X Yes N	lo (If No. attach evalonation
Are all produced fluids from all	commingled zones compatible	e with each others 💢 🔀	es No
. Will the value of production be	decreased by commingling?	Yes X No (If Yes	s. attach explanation)
IT IDIS Well'IS On or communiti-	بيافكيناسم	s, either the Commissioner of Pod in writing of this application.	
NMOCD Reference Cases for R	The second secon	u iii wiiiiiiii of inis anaireation	X / a a bi
* C-102 for each zone * Production curve for • For zones with no pro • Data to support alloce • Notification list of all • Notification list of week to be a constant of the	to be commingled showing its each zone for at least one year oduction history, estimated pration method or formula. offset operators.	s spacing unit and acreage dediar. (If not available, attach exploreduction rates and supporting of interests for uncommon interesting to support commingling.	cation. anation.) lata.
ereby certify that the information	above is true and complete to	o the best of my knowledge and	l belief.
GNATURE Nay 7	Maddol	TITLE Regulatory Agent	DATE 2/01/90
PE OR PRINT NAME Kay Maddo	х	TELEPHONE NO. (9	15) 686-5798
		<u> </u>	

APPLICATION FOR DOWNHOLE COMMINGLING Ludwick LS 16M (310 30N 10W)

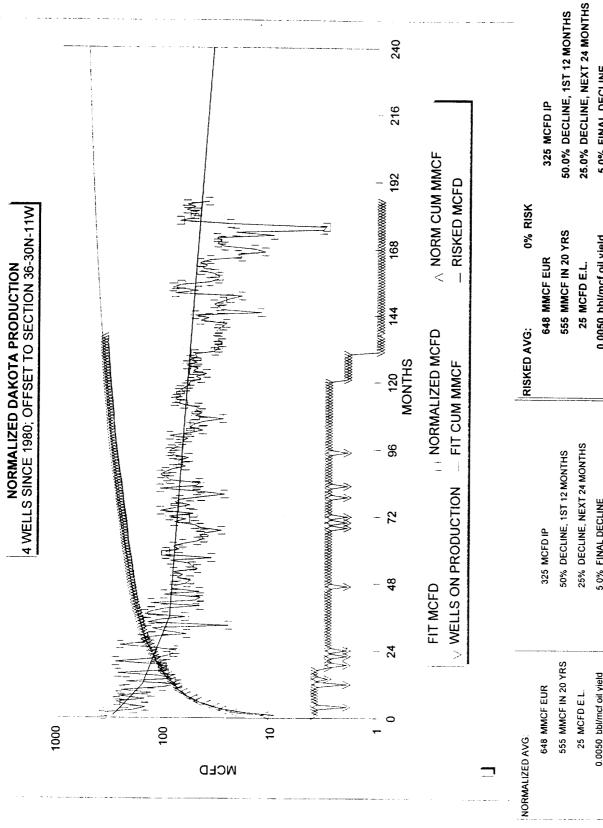
As shown in the attached production plot for offsets to the Ludwick LS 16M, estimated ultimate recoveries and initial production rates from infill wells to the Dakota formation are insufficient to justify drilling stand alone wells. Furthermore, production plots from each zone indicate a similar decline 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.



240 216 ○ NORM CUM MMCF 192 RISKED MCFD A WELLS SINCE 1980; OFFSET TO SECTION 36-30N-11W 168 144 NORMALIZED MCFD MONTHS FIT CUM MMCF MATERIAL TO THE TAXABLE PROPERTY OF TAXABLE PR 96 ∨ WELLS ON PRODUCTION 72 48 FIT MCFD 24 9 1000 5 WCLD

3010MVN.WK4





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Obstablet III 1990 Ale Bautes Ad. Aztes, NM 87410

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01L CONSERVATION 01/1910. PO Box 2088 Santa Fe. NM 87504-2088

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Fig. 1991 Fig. 1972 C-to Fig. 1991 Fig. 1972 21, 1992 Fig. 1973 On back Fig. 1992 1993 1993 1993 Fig. 1993 1993 1993

__ AMENDED REPORT

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	'API Numbe	er.	723	'2001 SG 319 /			BLANCO ME	1950! Nam SBA /ERDE ,	e / BASIN DA	AKSTA
'Propert	/ Code				'Prope LUDW				,,	Mell Number 15M
'CGA:D	-				*Opera				,	Ēlevatīja
0050	/ 3				CONOC		INC.			5932
UL or lot no.	Section	Township	Range	Lot Ian	10 Sun face		OCATION North/South line	Feet from the	East/West line	County
0	31	30N	10W		1005		SOUTH	1850	EAST	SAN JUA
UL or lot no.	Section		ottom		ocation		Different	From Surf	ace	<u> </u>
oc or lacing.	Section	Township	Range	Lot Idn	Feet from the	'	North/South line	Fest from the	East/West line	County
Oedicated Acr	es	LL		<u> </u>	13 Joint or 1	[nfill	¹⁴ Consolidation Code	¹⁵ Order Na.		
320	NATI E N	TI DE 10	20.70.15		70 0000					
NU ALLU	JWABLE W	OR A	SSIGNEI NON-ST	D TO TH ANDARD	IS COMPLE' UNIT HAS	TION BEE	UNTIL ALL N APPROVED E	INTERESTS H BY THE DIVIS	IAVE BEEN CO SION	NSOLIDATED
1212.	42.	1303	3.50	-\//	////// 260			17 OPER	ATOR CERT	IFICATION
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AUBIMIT IN TRIPLICATION

Other instructions in reverse side)

FORM APPROVED OMB NO 1004-0136 Expires February 28, 1995

DEPARTMENT OF THE INTERIOR

	BUREAU OF						1 LEASE DIGNATION A	
	LICATION FOR PE	RMIT TO D	DRILL	OR DEE	PEN		SIF INDIAN, ALLOTTEE	OR TRIBE NAME
ELTYPE OF WORK b. TYPE OF WELL	ORILL 🔯	DEEPEN [-	7 UNIT AGRREEMENT NA	ме
OIL WELL	GAS WELL OTHER		11N 0		WITE FIRE		1. FARM OR LEASE NAME WEL	L NO
. NAME OF OPERATOR	Conoco Inc.						LUDWICK L	S #16M
						[9. APTWELL NO	
L ADDRESS AND TELEPHONE								
	ta Dr. Ste 430E, Midland				686-5794		10. FIELD AND POOL, OR	WILDCAT
At surface	ELL (Report location clearly an		-	•	nts *)		Blanco MV / Bas	sin Dakota
		1005' FSL 8	& 1850' F	EL		[II SEC.T.R.M.ORBI	LK
At proposed prod.	zone	1005' FSL 8	& 18ናበ' F	EFI		1		
1 DISTANCE IN MILE	S AND DIRECTION FROM NEAR							
4 DISTANCE IN MILE	S AND DIRECTION FROM NEXT	231 10 W N OK FO3	or OFICE.				12 COUNTY OR PARISH	13. STATE
6 D. 107 . V. 107 . C. 10 . C.	000000	·····					San Juan	NM
5. DISTANCE FROM PR LOCATION TO NEAD	REST		16 NO OF	ACRES IN L	EASE		ACRES ASSIGNED IS WELL	
	drlg. unit line, if Any)						320	
8. DISTANCE FROM PR TO NEAREST WELL	. DRILLING, COMPLETED.		19. PRÓPO	SED DEPTH		20. ROTAR	Y OR CABLE TOOLS	Juan NM GNED 320 GOOLS Rotary
OR APPLIED FOR, ON	THIS LEASE, FT,			7233'			Rotary	
21. ELEVATIONS (Show	whether DF, RT, GR, etc.)						22. APPROX. DATE WOR	K WILL START
		5932' GR					4/15/9	8
2.3	1	PROPOSED CASI	NG AND C	EMENTING	PROGRAM			
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FO	тоот	SETTING D	ЕРТН		QUANTITY OF CEMEN	т
12-1/4"	K-55, 9-5/8"	36#		250			135 sxs, circ.	
8-3/4"	K-55, 7"	23#		2642)1		320 sxs, circ.	
6-1/4"	K-55, 4-1/2"	9.5#		6968	3 '		465sxs, toc @ 250	0'
7. 7 1 1		51 11		~ . ~ .	'		51 1 5 15 1 15 5 5 5 5 5 5 5 5 5 5 5 5	

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.

F10 - 401

- 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.

APPROVAL DATE		·····
title to those righs in the subject lea	ase which would entitle the app	olicant to conduct operation
	title to those righs in the subject le	title to those righs in the subject lease which would entitle the app

Conoco, Inc. Ludwick LS #16M Section 31, T-30-N, R-10-W, O San Juan, New Mexico

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