DISTRICT I

r O Box 1980, Hobbs, NM 88241 1980

BITRICT II

811 Southt First St. Artesia NM 88210 2835

DISTRICT III

State of New Mexico Energy, Minerals and Natural Rasources Department

OIL CONSERVATION DIVISION

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

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

APPROVAL PROCESS:

Administrative Hearing

EXISTING WELLBORE

APPLICATION FOR DOWNHOLE COMMINGLING 1000 Rio Brazos Rd. Aztec, NM 87410 1693 YES NC Conoco Inc. 10 Desta Dr. Ste 100W, Midland, Tx. 79705-4500 Address Ludwick LS #19M Section 5, T-29-N, R-10-W, F San Juan Lease Unit Ltr Sec Twp Rge Spacing Unit Lease Types: (check 1 or more) 005073 Federal X , State (and/or) Fee OGRID NO. - Property Code API NO. The following facts ate submitted in support of downhole commingling: intermediate Zone Uppei Zone Pool Name and Pool Code Blanco Mesaverde Basin Dakota 72319 71599 2. TOP and Bottom of Pay Section (Perforations) 4165-4765' 6695-6795' 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. а Oil Zones - Artilicial Lift: Estimated Current 605 764 Gas & Oil - Flowing: Measured Current b(Original) D b. Estimated Or Measured Original 1221 2481 Ū 6. Oil Gravity (°API) cr Gas BT Content 1200 est 1200 est 7. Producing or Shut-In? DITI. 3 Production Marginal? (yes or no) No Yes . If Shut-In give date and oil/gas/ Date Date Date water rates of lsst production Rates Note For new zones with no production htStory applicant shad be required to attach production estimates and supporting dara water rates of recent test (within 60 days) To be supplied upon To be supplied upon • If Producing. Dale Date Completion Completion Rates 8. Fixed Percentage Allocation Formula -% or each zone Gas wil Gas Oil. 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? X Yes — No Yes — No No 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? 11. Will cross-flow occur? X Yes No If yes, are fluids compatible, will flowed production be recovered, and will the allocation formula be reliable. No If yes, are fluids compatible, will the formations not be damaged, will any cross-X Yes ___ No (If No, attach explanation) 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) 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. XYes ____ No

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.

ORDER NO(S).

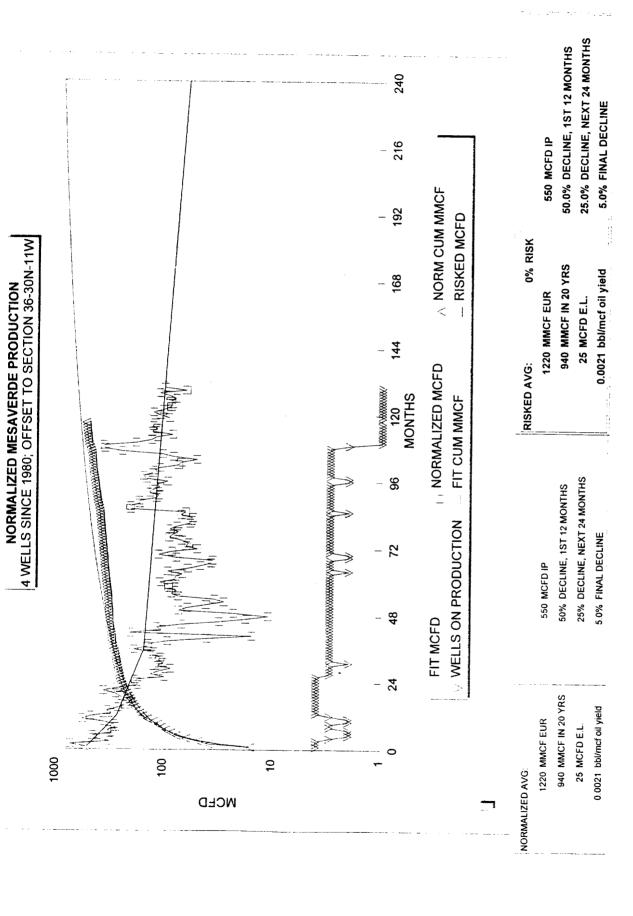
15. NMOCD Reference Cases for Rule 303(D) Exceptions:

- 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 co	implete to the be	est of my knowledge	and belief.	
SIGNATURE Say Maddox	TITLE _	Regulatory Agent		3/24/98
TYPE OR PRINT NAME Kay Maddox		TELEPHONE NO.	(915)	686-5798

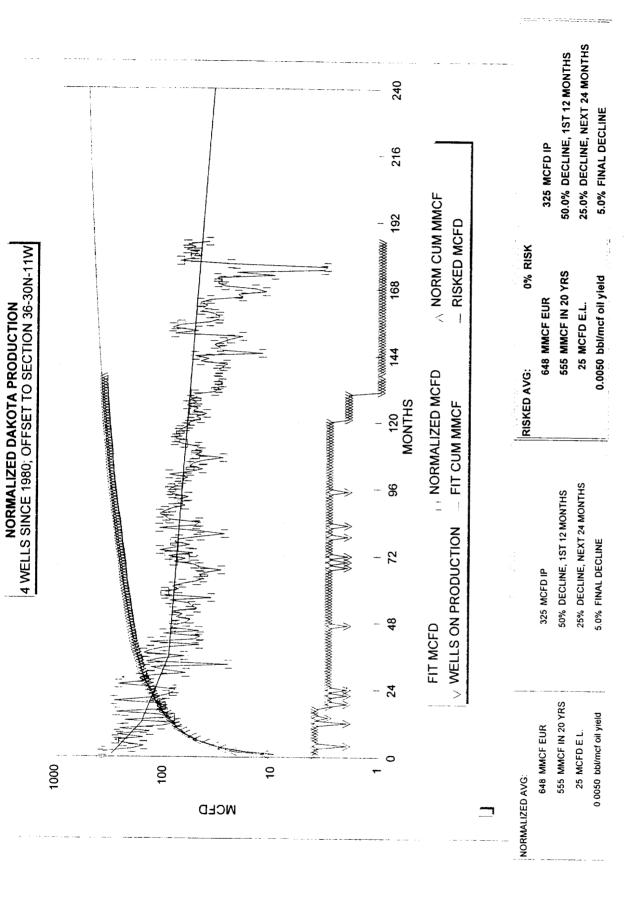
Ludwick LS 19M (5F 29N 10W)

As shown in the attached production plot for offsets to the Ludwick LS 19M, 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.









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District III 1000 Rip Brazos Rd Aztec, NM 87410

Diothilat 17 PD 35K 3098, Santa Fe, NM 87504-2088

PO Box 2088 Santa Fe, NM 87504-2088

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T METOED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

'API NUMBI		'Pool Code 19 / 71599	BLANCO	POOL NAM MESAVERDE		AKOTA
*Property Code		*xell Number 1974				
'OGATO NO.		°ape CONO	erator Name DCO, INC.	Elevation 5847		
		10 Surfa	ace Location	··		
u. or lot no. Section	Township Range 29N 10W	Lot Ion Feet from		Feet from the 1850	WEST	SAN JUAN
		Hole Locatio		t From Surf	ace	
UL or lot no. Section	Township Range	Lat Idn Feet from	the North/South line	Feet from the	East/West line	County
Dedicated Acres		13 Joint	or Infill 14 Consolidation C	coce 15 Order No.		
· · · · · · · · · · · · · · · · · · ·	VILL BE ASSIGNED OR A NON-STA	TO THIS COMPLANDARD UNIT HA	ETION UNTIL ALI S BEEN APPROVER	INTERESTS H	MAVE BEEN CO	ONSOLIDATED
1246.08°	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	290.56	5	1225. 1225. 1 June and counce	ATOR CERT iffy that the informationation of the best of w	IFICATION on contained herein is y knowledge and belinf
. 1850°	10	11	12	→ Nitle	e L. Mank	
16	15	14	13	was plotted fi or under my s correct to th	ify that the well loca nom field notes of act supervision, and that the e best of my belief.	all surveys made by he re same is thus and
17	18	19	20	Centific	6850	WANDS HOUR

f- 120 SUBMIT IN TRIPLICATE* FORM APPROVED 11414 1 2 1 2 1 (Other instructions on OMB NO. 1004-0136 **UNITED STATES** reverse side) Expires February 28, 1995 DEPARTMENT OF THE INTERIOR 5 LEASE DSIGNATION AND SERIAL NO **BUREAU OF LAND MANAGEMENT** SF 078194 APPLICATION FOR PERMIT TO DRILL OR DEEPEN 6 IF INDIAN, ALLOTTEE OR TRIBE NAME Ta. TYPE OF WORK DRILL 🔯 DEEPBN [7 UNIT AGRREEMENT NAME b TYPE OF WELL OIL | GAS WELL MULTIPLE SINGLE 8 FARM OR LEASE NAME WELL NO ZONE 2. NAME OF OPERATOR LUDWICK LS #19M Conoco Inc. 9. API WELL NO 1. ADDRESS AND TELEPHONE NO 10 Desta Dr. Ste 430E, Midland, Tx. 79705-4500 915-686-5794 10. FIELD AND POOL, OR WILDCAT 4 LOCATION OF WELL (Report location clearly and in accordance with any State requirements*)
At surface Blanco MV / Basin Dakota 1495' FNL & 1850' FWL SEC. T. R. M. OR BLK AND SURVEY OR AREA At proposed prod. zone 1495' FNL & 1850' FWL Sec. 5, T29N, R10W 14 DISTANCE IN MILES AND DIRECTION FROM NEAEST TOWN OR POST OFICE* 12 COUNTY OR PARISH 13. STATE San Juan NM 5. DISTANCE FROM PROPOSED 16 NO OF ACRES IN LEASE 5. DISTANCE FROM PROPOSED

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(A Iso to nearest drig, unit line, if Any)

B. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT, 17. NO. OF ACRES ASSIGNED TO THIS WELL 320 19. PROPOSED DEPTH 20. ROTARY OR CABLE TOOLS 7148' Rotary 21. ELEVATIONS (Show whether DF, RT, GR, etc.) 22. APPROX. DATE WORK WILL START* 5847' GR 4/15/98 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# 250 135 sxs, circ. 8-3/4" K-55, 7" 23# 2565' 315 sxs, circ. 6-1/4" K-55, 4-1/2" 9.5# 6848' 470 sxs, toc @ 2400' 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.

APPROVAL DATE		
		cant to conduct operation
	al or equitable title to those righs in the subject lease wh	APPROVAL DATE

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 6 any matter within its jurisdiction.