State of New Mexico Minerals and Natural Rasources Department

OIL CONSERVATION DIVISION

811 SouthI First St. Artesia NM 88210 2835

DISTRICT III

OIL CON DIVO

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

APPROVAL PROCESS:

Administrative Hearing

EXISTING WELLBORE X YES NO

00 Rio Brazos Rd. Aztec, NM 87410 16	&PPLICATION FOR DOWNHOLE COMMINGLING

Conoco Inc.	10	0 Desta Dr. Ste 100W, Midland	d, Tx. 79705-4500
Lackey B LS	15 E	Section 29, T-28-N, R-9-W,	
005073	le API NO.	Spacing	g Unit Lease Types. (check 1 or more) X , State ((and/or) Fee (
The following facts ate submitted in support of downhole commingilng:	Upper Zone	intermediate Zone	Lower Zone
Pool Name and Pool Code	Otero Chacra 82329	Blanco Mesaverde 72319	Basin Dakota 71599
2. TOP and Bottom of Pay Section (Perforations)	3030-3142'	4043-4511'	6395-6604'
Type of production (Oil or Gas)	Gas	Gas	Gas
Method of Production {Flowing or Artificial Lilt}	To Flow	To Flow	Flowing
Bottomhole Pressure Oil Zones - Artilicial Lift:	a (Current)	a.	a.
Estimated Current	450	527	716
Measured Current All Gas Zones:	b(Original)	b.	b.
Estimated Or Measured Original	930	1148	2352
6. Oil Gravity (°API) or Gas BT Content		1240	1246
7. Producing or Shut-In?	To be Completed	To be Completed	Producing
Production Marginal? (yes or no)	Yes	Yes	Yes
 If Shut-In give date and oil/gas/ water rates of lsst production 	Date Rates	Date Rates:	Date Rales
Note For new zones with no production hiStory applicant shad be required to attach production			
If Producing, date and oil/gas/water rates of recent test (within 60 days)	Allocation by Subtraction -See Attached table	Allocation by Subtraction - See Attached table	Est 1/98 Rates 34 MCFD, .36 BOPD. 0 BWPD
8. Fixed Percentage Allocation Formula -% or each zone	vil. Gas %	oil: Gas %	он Gas
O. If allocation formula is based usubmit attachments with supp O. Are all working, overriding, and If not, have all working, overridaye all offset operators been 1. Will cross-flow occur? X	orting data and/or explaining r d royalty interests identical in a ding, and royalty interests bee given written notice of the prop	nethod and providing rate proje all commingled zones? on notified by certified mail?	X Yes No Yes No X Yes No Yes No No
flowed production be recovere		ula be reliable. X Yes	No (If No, attach explanation
2. Are all produced fluids from al	l commingled zones compatible	le with each others X	es No
B. Will the value of production be	decreased by commingling?	Yes _x_No (If Ye	es, attach explanation)
 If this well is on, or communiti United States Bureau of Land 	zed with, state or federal land: Management has been notifie	s, either the Commissioner of F d in writing of this application.	Public Lands or the X_Yes No
i. NMOCD Reference Cases for I		ORDER NO(S).	
• Production curve fo • For zones with no p • Data to support alloo • Notification list of a • Notification list of v	r each zone for at least one ye roduction history, estimated p cation method or formula. Il offset operators.	s spacing unit and acreage dec ar. (If not available, attach exp roduction rates and supporting y interests for uncommon inter-	lanation.) data.

I hereby certify that the information above is true and complet	e to the b	est of my knowledge	and belief.	
SIGNATURE Tay Maddox	TITLE _	Regulatory Agent	DATE _	2/24/98
TYPE OR PRINT NAME Kay Maddox		TELEPHONE NO.	(915)	686-5798

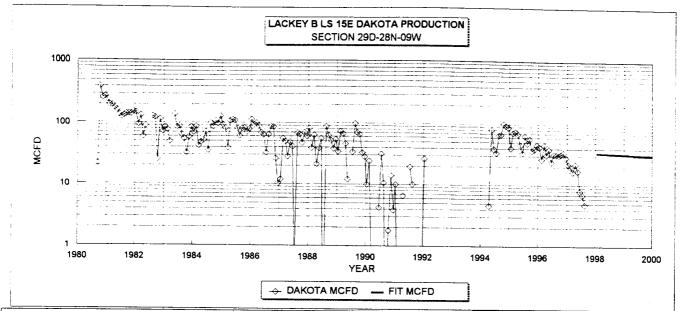
The Lackey B LS #15E was completed in the Dakota and first produced 9/80. Production is stable and future rates can be estimated reliably (See attached production plots).

At this time we wish to recomplete uphole to the Mesaverde and Chacra and trimingle production. Attached normalized production plots from recent offsetting Mesaverde and Chacra wells shows that:

- 1) Production is clearly marginal from both zones
- 2) Rates & decline profiles are similar in both zones

For the above stated reasons we propose to allocate production as follows:

- Dakota production allocated by subtraction
- Remainder of production allocated by fixed percentage to Chacra & Mesaverde. Allocation percentage to be determined by SHORT (less than 1 week) production test



 DAKOTA HISTORICAL DATA:
 1ST PROD: 09/80
 PROJECTED DATA

 OIL CUM:
 3.56 MBO
 1/1/98 QI:
 34 MCFD

 GAS CUM:
 335.2 MMCF
 DECLINE RATE:
 4.5% (EXPONENTIAL)

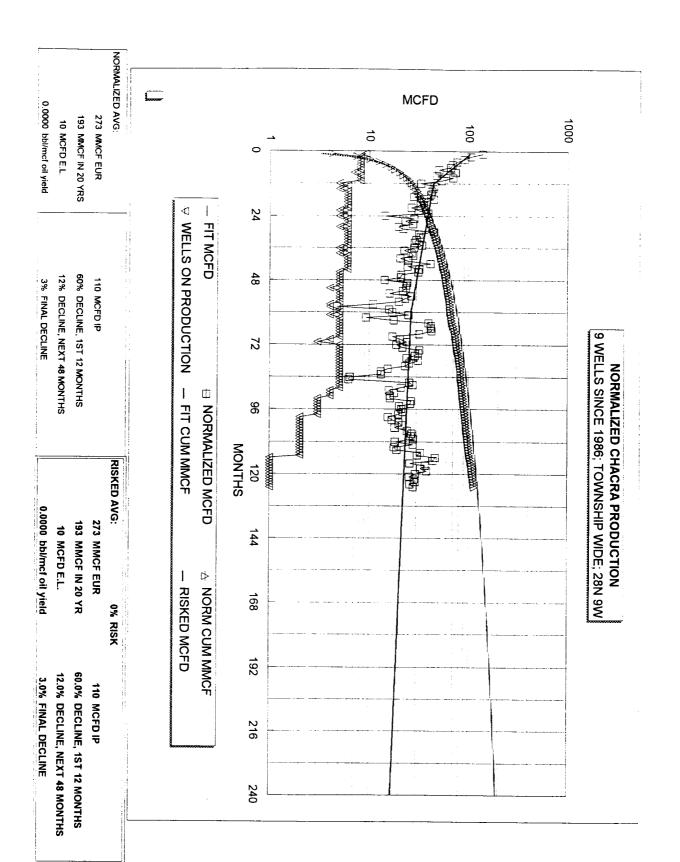
 CUM OIL YIELD:
 0.0106 BBL/MCF

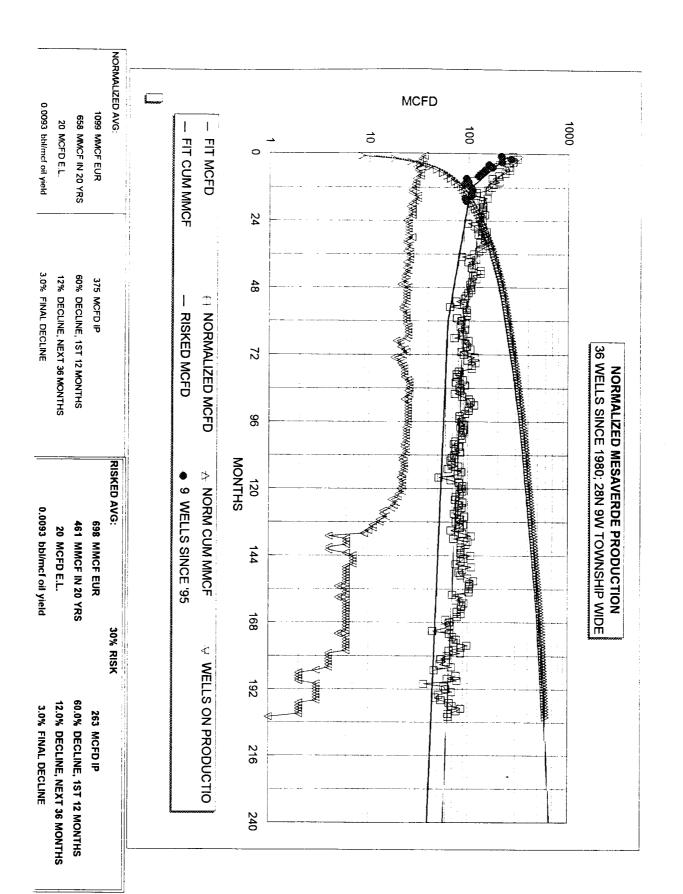
PRODUCTION FORECAST FOR SUBTRACTION METHOD COMMINGLE ALLOCATION

YEAR	AVG. MCFD	AVG. BOPD
1998	33.3	0.35
1997	31.8	0.34
1998	30.3	0.32
1999	29.0	0.31
2000	27.7	0.29
2001	26.4	0.28
2002	25.2	0.27
2003	24.1	0.26
2004	23.0	0.24
2005	22.0	0.23
2006	21.0	0.22
2007	20.0	0.21
2008	19.1	0.20
2009	18.3	0.19
2010	17.5	0.19
2011	16.7	0.18
2012	15.9	0.17
2013	15.2	0.16
2014	14.5	0.15
2015	13.9	0.15
2016	13.2	0.14
2017	12.6	0.13
2018	12.1	0.13
2019	11.5	0.12
2020	11.0	0.12
2021	10.5	0.11
2022	10.0	0.11
2023	9.6	0.10
2024	9.2	0.10
2025	8.8	0.09
2026	8.4	0.09
2027	8.0	0.08
2028	7.6	0.08
2029	7.3	0.08
2030	7.0	0.07
-		

MID-YEAR

MID-YEAR







District I PO Box 1980, Hobbs. NM 88241-1980 State of New Mexico Energy, Minerals & Natural Resources Department

Revised February 21, 1994 instructions on back

District II PO Drawer DD, Artesia, NM 88211-0719 District III 1000 Rio Brazos Rd. Aztec, NM 87410

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe. NM 87504-2088

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

District IV				•		Santa Fe. I	N M	87504-2088			Fee	Lease - 3 Copi
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7 OGRID No.	ł	_						itor Name			9 E	evation
005073	3	C	onocc) Inc.	10 De			00W, Midland, T.	X 79705-4500	<u> </u>		5890'
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Certificate Number

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

State of New Mexico Energy, Minerals & Natural Resources Department

District II PO Drawer DD, Artesia, NM 88211-0719 District III 1000 Rio Brazos Rd. Aztec, NM 87410 District IV

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe. NM 87504-2088

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

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					Lackey	B LS				15 E				
7 OGRID No.					8 Opera	itor Name			9 E	levation				
005073	;	Con	oco Inc.,	10 Desta	Drive, Ste. 10	00W, Midland, T.	X 79705-4500		•	5890'				
					10 Surface	Location								
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	st line	County				
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E			Date 7
************	•••••••••		10 CLIDVEYOR CERTIFICATION
			18 SURVEYOR CERTIFICATION
			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 supervision, and that the same is true and
			correct to the best of my belief.
			Date of Survey
		 	Signature and Seal of Professional Surveyor.
		l	·
			Certificate Number

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

Form C-102 Revised 1u-1-78

All distances must be from the outer haundaries of the Vertice

		All distant	es must be fro	m the cute	t houndaries	rf the Section	l.	
Cperator EL PASO NA	TUPAL GAS COM	PANY		Legse LACK	EY "B"	(SF	`-077106)	Well No. 15-E
Unit Letter	Section	Township		Romo	e .	County		
D Actual Footage Loca	29	28	1	i -	9W	1 ·	Juan	
790		rth	line and	880	•	eet from the	West	
Ground Level Elev.	Producing For	mation	ine and	P∞I		eet from the		line Dedicated Acreage:
5890	Dakota			i	n Dakota			320.00 Acres
1. Outline the	e acreage dedica	ted to the	subject we	ell by col	lored pencil	or hachure	marks on th	ne plat below.
2. If more the interest an	an one lease is d royalty).	dedicated	to the well	l, outline	each and i	dentify the	ownership th	hereof (both as to working
3. If more that dated by co	n one lease of di ommunitization, u	ifferent ov nitization	vnership is o , force-pooli	dedicated	to the well	, have the	interests of	all owners been consoli-
Yes Yes	☐ No If an	swer is "	yes," type o	f consoli	dation			
If answer i	s "no," list the	owners an	d tract desc	riptions v	which have	actually be	en consolida	ated. (Use reverse side of
this form if	necessary.					 		
No allowab	le will be assigne	ed to the w	ell until all	interests	have been	consolidat	ted (by comi	munitization, unitization.
forced-pool	ing, or otherwise)	or until a	non-standard	d unit, el	iminating st	ich interest	s, has been	approved by the Commis-
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Lackey B LS # 15E Section 29, T-29-N, R-9-W, D San Juan County, New Mexico Downhole Commingle Application C-107A

Offset Operators:

Burlington Resources PO Box 4289 Famrington, NM 87499

Amoco PO Box 800 Denver, CO 80201

S & G Interests 811 Dallas STE 1505 Houston, TX 77002

Richardson Operating 1700 Lincoln St STE 1700 Denver, CO 80203