CATE IN 8/3	1/98	SUSPENSE	1/21	10	18	E NGINEER	DC	LOGGED BY	W	ТҮРЕ	DHC
	/ 			,							

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

2105

- 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] TYPE OF APPLICATION - Check Those Which Apply for [A] [1] Location - Spacing Unit - Directional Drilling AUG 3 | 1998 \square SD □NSL \square NSP Check One Only for [B] and [C] Commingling - Storage - Measurement [B] ☑ DHC \square CTB \square PLC \square_{PC} □ OLS □ OLM Injection - Disposal - Pressure Increase - Enhanced Oil Recovery [C] \square PMX \square SWD ☐ IPI □ wfx ☐ EOR ☐ PPR NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply [2] [A] ☐ Working, Royalty or Overriding Royalty Interest Owners [B] Offset Operators, Leaseholders or Surface Owner Application is One Which Requires Published Legal Notice fC1 ☐ Notification and/or Concurrent Approval by BLM or SLO [D] U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office ☐ For all of the above, Proof of Notification or Publication is Attached, and/or. [E] [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

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

notification is cause to have the application package returned with no action taken.

	1 2-2		,
Kay Maddox	_ Nay Wladdax	Regulatory Agent	8/27
Print or Type Name	Signature	Title	Date

rO Box 1980, Hobbs, NM 88241 1980

811 SouthI First St. Artesia NM 88210 2835

State of New Mexico Energy, Minerals and Natural Rasources Department

OIL CONSERVATION DIVISION

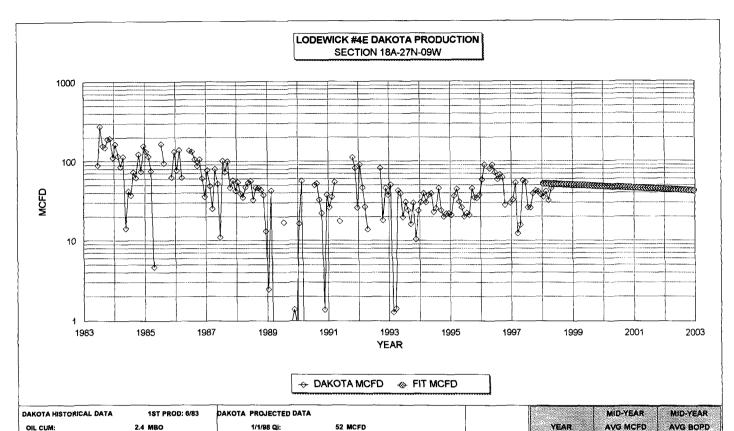
2040 S. Pacheco Santa Fe, New Mexico 87505-6429

DISTRICT III
1000 Rio Brazos Rd Aztec, NM 87410 1693

APPLICATION FOR DOWNHOLE COMMINGLING

Administrati	ive L	Hear	ıng
EXISTING	WEL	.LBO	RE
\boxtimes	YES		NO

Conoco Inc.	10 Addres	Desta Dr. Ste 100W, Midland	, Tx. 79705-4500
Lodewick ease	4E	Section 18, T-27-N, R-9-W, A	A San Juan
005073	e API NO	Spacing	Unit Lease Types: (check 1 or more) . 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	Basin Fruitland Coal 71629		Basin Dakota 71599
TOP and Bottom of Pay Section (Perforations)	2314-2423'	:	6830-6994'
3. Type of production (Oil or Gas)	Gas (Expected)		Gas
Method of Production {Flowing or Artificial Lilt}	Expected Flowing		Flowing
5. Bottomhole Pressure	a (Current)	a.	a .
Oil Zones - Artilicial Lift: Estimated Current	450 EST		. 660
Gas & Oil - Flowing: Measured Current	b(Original)	b.	b.
All Gas Zones: Estimated Or Measured Original	790		2320
6. Oil Gravity (°API) or			
Gas BŤ Content	1120		1180
7. Producing or Shut-In?	To Be Completed		Producing
Production Marginal? (yes or no)	Yes (Expected)		Yes
If Shut-In give date and oil/gas/	Date	Date	Date
water rates of lsst production	Rates	Rates	Rates
Note For new zones with no production history applicant shad be required to attach production estimates and supporting dara If Producing, date and oil/qas/	Date Est 8/98	Date	Bate 8/98
water rates of recent test (within 60 days)	Rates 200 MCFD, 0 BO, 0 BW Prod Allocation by Subtraction See Table	Rates	8 Pates 51 MCFD, 1 B0, 1 BW
8. Fixed Percentage Allocation Formula -% or each zone	on Gas	ınıl Gas	Oil Gas
10. Are all working, overriding, an If not, have all working, overr Have all offset operators been 11. Will cross-flow occur? X Y	porting data and/or explaining noned royalty interests identical in a diding, and royalty interests been given written notice of the property	nethod and providing rate projects all commingled zones? En notified by certified mail? cosed downhole commingling? Impatible, will the formations nullabe reliable. X Yes	X Yes No Yes No Yes No X Yes No X Yes No No Of be damaged, will any cross No (If No, attach explanation
			•
	I Management has been notifie	d in writing of this application.	X Yes No
5. NMOCD Reference Cases for	Rule 303(D) Exceptions:	ORDER NO(S).	
* Production curve for For zones with no per Data to support allo to Notification list of the No	e to be commingled showing its or each zone for at least one ye oroduction history, estimated po- cation method or formula. all offset operators, working, overriding and royalty ements, data, or documents req	ar. (If not available, attach exproduction rates and supporting	olanation.) , data. rest cases.
hereby certify that the information	on above is true and complete t	to the best of my knowledge a	nd belief.
GIGNATURE Kay M	Jaddof	TITLE Regulatory Age	<u>nf</u> date <i>Aug. 27, '98</i>
YPE OR PRINT NAME KA		TELEPHONE NO.	



4.00% (EXPONENTIAL)

0.0062 BBL/MCF, LAST 3 YEARS

PRODUCTION FORECAST FOR SUBTRACTION METHOD COMMINGLE ALLOCATION

OIL YIELD:

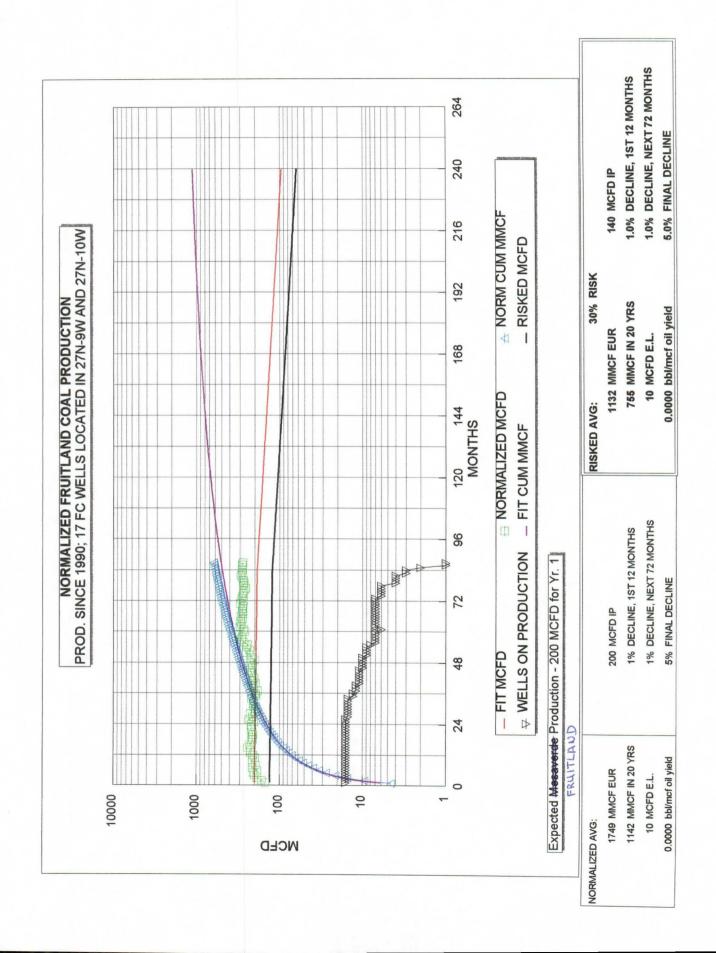
DECLINE RATE:

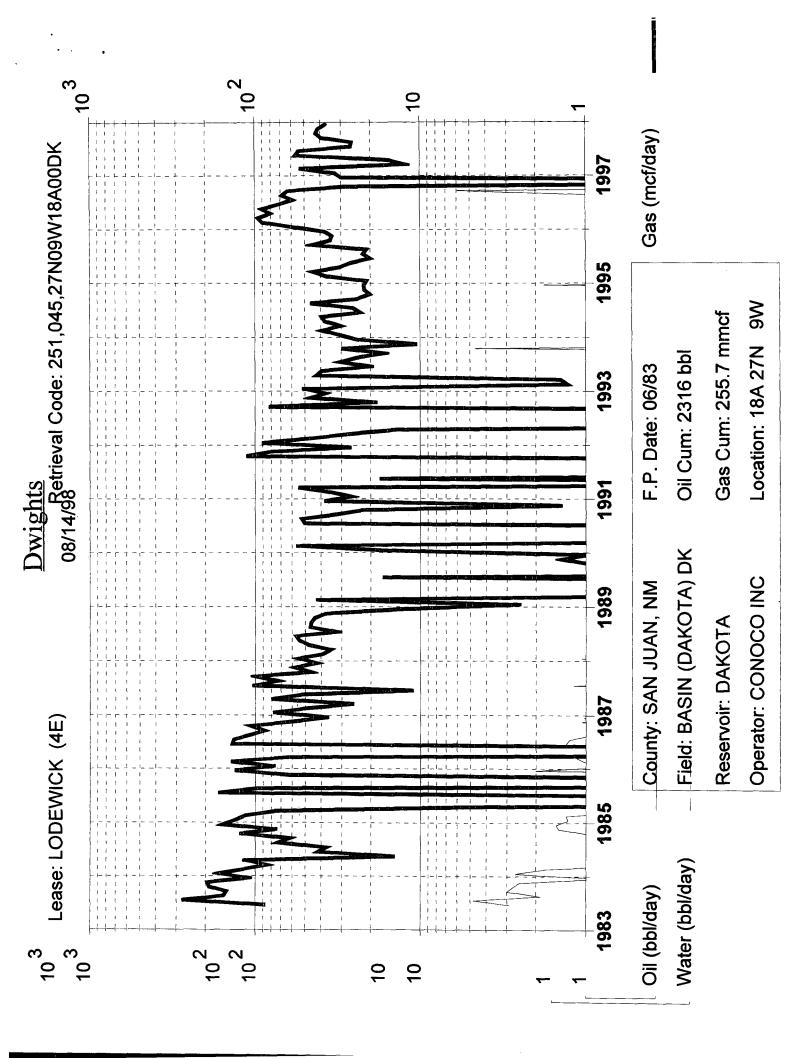
263.5 MMCF

0.0090 BBL/MCF

GAS CUM: OIL YIELD:

YEAR	AVG MCFD	AVG BOPD
1998	51	0.32
1999	49	0.30
2000	47	0.29
2001	45	0.28
2002	43	0.27
2003	41	0.26
2004	40	0.25
2005	38	0.24
2006	37	0.23
2007	35	0.22
2008	34	0.21
2009	32	0.20
2010	31	0.19
2011	30	0.19
2012	29	0.18
2013	28	0.17
2014	26	0.16
2015	25	0.16
2016	24	0.15
2017	23	0.15
2018	22	0.14
2019	22	0.13
2020	21	0.13
2021	20	0.12
2022	19	0.12
2023	18	0.11
2024	18	0.11
2025	17	0.10
2026	16	0.10
2027	16	0.10





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

	NM 87504-2	.088							AMEN	NDED REPOR
	WEI	L LO	CATION	N AND A	ACR.	EAGE DEDIC	CATION PL	AT		
API Numbe	r		2 Pool C	ode			3 Pool Nan			
30-045-25550 71629							Basin Fruitla	and Coal	0.144	
4 Property Code						y Name			6 We	Il Number
7.00DID No.				dewi				Q EI	# 4E evation	
7 OGRID No.	Conor		10 Dooto		•	or Name	/ 70705 <i>4</i> 500	1	3 5.1	
005073	Conoc	o inc.,	10 Desia			OW, Midland, TX			L	6501'
UL or lot no. Section	Township	Range	Lot Idn	Feet from		North/South line	Feet from the	East/We	st line	County
	1	•								}
A 18	27N	9W	tom Ho	1040'		North f Different Fro	845'	E	ast	San Juan
UL or lot no. Section	Township	Range	Lot Idn	Feet from t		North/South line	Feet from the	East/We	st line	County
	,									
12 Dedicated Acres 13 Join 320	nt or Infil 14 (Consolidatio	in Code 15	Order No.		<u> </u>	<u>. </u>			1
16			# # # # # # # # # # # # # # # # # # #	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		EEN APPROVED	17 OPE	RATOR	nformation	IFICATIO contained herein in nowledge and beli

Certificate Number

STATE OF HEW-MEXICO

OIL CONSERVATION DIVISION P. O. BOX 2008

SANTA FE, NEW MEXICO 87501

Form C-107 Revised 10-1-78

All distances must be from the cuter foundation of the Section.

erator		· \1	Lease			Well No.	•
ENNECO OIL COMPAN		<u> </u>	LODEWICK			LE_	
t Letter Section	Township		Ronge	County			
18	27	N	9W	San J	uan		
ual Footage Location of Wel			01 5	<u> </u>		_	
OLO feet from and Level Elev: Prod	the North	line and	<u>845 t</u> €	et from the Eas		line ated Acreage:	
·	kota	ļ'			Dedic	320	
1. Outline the acreage		<u></u>	Basin Dakota				Acres
 If more than one leaderest and royalty If more than one leadered by communities Yes No If answer is "no," this form if necessan No allowable will be forced-pooling, or ot 	ise of different of attion, unitization. If answer is ist the owners ary.)	ownership is d n, force-poolin "yes," type of and tract descr well until all	ledicated to the welling, etc? I consolidation riptions which have	actually been of	consolidated.	owners been (Use reverse	e side of
SF-077974 TOC 50% Conoco 50%	7 MS T WA J KE T L		100EWK	845'	I hereby certify	RTIFICATION That the inform true and cample Gedge and belie	ete to the
	LODEWKK4 Sec.		DAKOTA	P	отроту	uction Ana Dil Compan	
		18	1 1862 1 1862	R	shown on this p nates of actua under my super	ADMN I. 1982	from field by me or the same
-"VEFA	Spalae In-	30001	1		Fred 3. K	err Jf.	

--QUICK BHP--

Calculate BHP and Z-factor from surface shut-in pressure

CURRENT PRESSURES

08/14/98

WELL NAME :	Lodewick 4E Dakota	Current Pres	sure		
GAS GRAVITY:	0.66	% N	l 2	0.20	
CONDENSATE (YES=1):	0	% C	02	0.20 %	
RESERVOIR TEMP:	176 'F	% F	128	0.00 %	
SURFACE TEMP:	60 'F	Pc:	=	671.09 %	
DEPTH OF ZONE:	6,760 feet	Tc :	=	376.38	
SURFACE PRES	6 BHP	Z	BHP/Z		
psia	a psia		psia		
563	660	0.9379	703		

NOTE: Initial ISIP avg calc BHB '50's & 60'S wells

Current ISIP avg calc BHP most recent test dates

WELL NAME : Lod	ewick 4E Dakota	Initial Press	ure		
GAS GRAVITY:	0.66	%	N2	0.20	
CONDENSATE (YES=1):	0	%	CO2	0.20 %	%
RESERVOIR TEMP:	176 'F	%	H2S	0.00 9	%
SURFACE TEMP:	60 'F	Pc	=	671.09	%
DEPTH OF ZONE:	6,760 feet	Tc	=	376.38	
SURFACE PRES	ВНР	z	BHP/Z		
psia	psia		psia		
1,924	2,317	0.8599	2,694		

Lodewick #4E API # 30-045-25550 Section 18, T-27-N, R-9-W, A San Juan County, NM

RE: Application to Downhole Commingle Fruitland Coal & Dakota

NOTIFICATION OF OFFSET OPERATORS:

Burlington Resources PO Box 4289 Farmington, NM 87499

Amoco PO Box 800 Denver, CO 80201

Universal Resources 1331 17th STE 300 Denver, CO 80202

A copy of the C-107A Downhole Commingle Application has been sent to the above listed parties.