OATE IN	10	7	9	tq	9	SUSPENSE	//	7	8/	9	9	E NGINEER	a	<u></u>	LOGGED BY	KV	TYPE	DHC	
		ш_	+-/	-				_	-								 		

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- 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]

	[EOR-Q	[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]	TYPE OF A	PPLICATION - Check Those Which Apply for [A]
	[A]	Location - Spacing Unit - Directional Drilling OCT 9 1999
]	□NSL □NSP □DD □SD
	0, 1	OC COMSERVATION DIVISION
	1	One Only for [B] and [C]
	[B]	Commingling - Storage - Measurement
		☑ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM
	[C]	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery WFX PMX SWD IPI DEOR PPR
[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]	Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
	[E]	☐ For all of the above, Proof of Notification or Publication is Attached, and/or,
	[F]	☐ 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.

completed by an individual with supervisory capacity.

-1005Regulatory Analys Print or Type Name

DISTRICT I

1625 N. French Dr., Hobbs, NM 88240

<u>DISTRICT II</u>

811 South First St., Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd, Aztec, NM 87410 DISTRICT IV

2040 S. Pacheco, Santa Fe, NM 87505

Conoco Inc.

State of New Mexico Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

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

Form C-107-A Revised March 17, 1999

APPROVAL PROCESS:

__x_ Administrative ___Hearing

APPLICATION FOR DOWNHOLE COMMINGLING

P.O. Box 2197 DU 3066 Houston, TX 77252-2197

EXISTING WELLBORE ____ YES ____ NO

Ludwick LS	#18 B-9. S	Sec. 6, T-29N, R-10W	San Juan					
Lease OGRID NO005073 Property Code0.			County ing Unit Lease Types: (check 1 or more) X, State, (and/or) Fee					
The following facts are submitted in support of downhole commingling: 1. Pool Name and Pool Code	Upper Zone Blanco Mesaverde 72319	intermediate s a Zone	Lower Zone Blanco Dakota 71599					
Top and Bottom of Pay Section (Perforations)	4380' - 4655' proposed		6702' - 6847'					
3. Type of production (Oil or Gas)	Gas		Gas					
Method of Production (Flowing or Artificial Lift)	To flow		Flowing					
5. Bottomhole Pressure Oil Zones - Artificial Lift: Control Control Control	a. (Current) 600 est.	a.	a. 600 est.					
Gas & Oil - Flowing: Weasured Current All Gas Zones: Estimated Or Measured Original	b. 1050 est.	b.	b. 2479					
6. Oil Gravity (EAPI) or Gas BTU Content	1230		1212					
7. Producing or Shut-In?	To be completed		Producing					
Production Marginal? (yes or no) * If Shut-In, give date and oil/gas/water rates of last production Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data	Yes Date: Rates: N/A Date: 7/15/99	Date: Rates:	Yes Date: Rates: N/A Date:					
If Producing, give date and oil/gas/water rates of recent test (within 60 days) Fixed Percentage Allocation Formula -% for each zone (total of %s to equal 100%)	Rates: 43 mcfd, .2 bopd, 0 bwpd Subtraction method; see attachment Oil: Gas:	Rates: Oil: Gas: %	Rates: N/A Subtraction method; see Attachment 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? 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? Yes No 11. Will cross-flow occur? X Yes No If yes, are fluids compatible, will the formations not be damaged, will any cross-flowed production be recovered, and will the allocation formula be reliable. X Yes No 12. Are all produced fluids from all commingled zones compatible with each other? X Yes No 13. Will the value of production be decreased by commingling? Yes X No 14. 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. Yes No 15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S). **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 TITLE Regulatory Analyst DATE 08/12/99								
TYPE OR PRINT NAME Deborah Moo								

District I

1625 N. French Dr., Hobbs, NM 88240

State of New Mexico Energy, Minerals & Natural Resources

Form C-102 Revised March 17, 1999

District II

811 South First, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

2040 South Pacheco, Santa Fe, NM 87505

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

_											
ı A	PI Number	•		² Pool Code	e	³ Pool Name					
30	-039-08825	5		71599, 723	19	Blanco Mesaverde/Blanco Dakota					
⁴ Property C	ode			⁵ Property Name				⁶ Well Number			
22398	i				#18						
OGRID N	lo.			9	9 Elevation						
005073	J				5907'						
					¹⁰ Surface I	Location					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	rom the North/South line Feet		East/West line	County		
B - 9	B-9 6		N 10W		9901,	North	1780	East	San Juan		
L	11 Bottom Hole Location If Different From Surface										
UL or lot no.	Section	Section Township		Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County		
12 Dedicated Acres	13 Joint of	r Infill 14	Consolidation	Code 15 O	rder No.						
320											

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A

	NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION							
6		- gr		17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief Signature Printed Name Deborah Moore Title Regulatory Analyst Date 08/12/99				
				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 Surveyer: Certificate Number				

ogerator

Well Location and Acreage Dedication Plat

March 24, 1961 Date Section A. EL PASO NATURAL GAS COMPANY SF 078194 LUDWICK Operator.....18 Lease Section 6 10-W Well No. ... Unit Letter Feet From NORTH EAST Line Feet From Located. County SAN JUAN G. L. Elevation 537 313.00 Dedicated Acreage. Pool BASIN DAKOTA 1. Is the Operator the only owner in the dedicated acreage outlined on the plat below? 2. If the answer to question one is "no", have the interests of all the owners been consolidated by communitization agreement or otherwise? Yes No. If answer is "yes", Type of Consolidation. 3. If the answer to question two is "no", list all the owners and their respective interests below Owner Land Description THIS PLAT REISSUED TO SHOW CORRECTED ACREAGE. NOTE: Section B. This is to certify that the information in Section A above is true and complete to the best of my knowledge and belief. Originatisigned by Carl E. Matthews (Representative) SF-07819L (Address) 1320 1650 1980 2310 2640

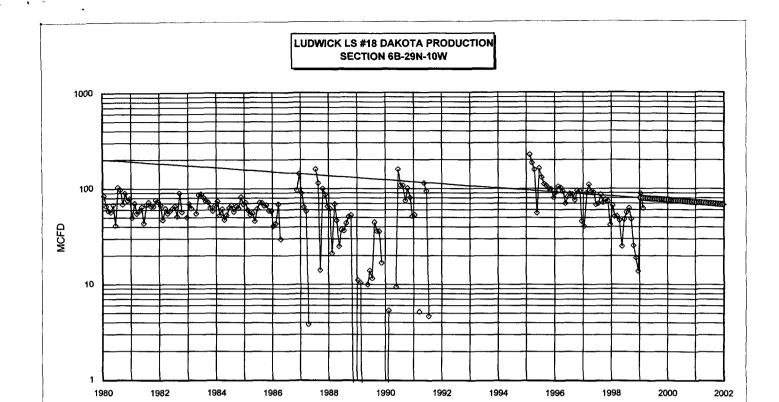
This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

Scale 4 inches equal i mile

(Seal)

Surveyed March 22, 196

Registered Professional Engineer and or Land Surveyor



YEAR

← DK Mcfd – ← FIT MCFD — Historical Fit

DAKOTA HISTORICAL DATA		1ST PROD: 8/61	DAKOTA PROJECTED DATA		
OIL CUM:	2.6	MBO	1/1/99 Qi:	80	MCFD
GAS CUM:	925,6	MMCF	DECLINE RATE:	5.00%	(EXPONENTIAL)
OII VIELD:	0.0028	BRI /MCF	OIL YIELD:	0.0040	RRI /MCF LAST 3 VEARS

PRODUCTION FORECAST FOR SUBTRACTION METHOD COMMINGLE ALLOCATION

YEAR	MID-YEAR AVG MCFD	MID-YEAR AVG BOPD
1999	78	0.31
2000	74	0.29
2001	70	0.28
2002	67	0.26
2003	63	0.25
2004	60	0.24
2005	57	0.23
2006	54	0.21
2007	52	0.20
2008	49	0.19
2009	46	0.18
2010	44	0.17
2011	42	0.17
2012	40	0.16
2013	38	0.15
2014	36	0.14
2015	34	0.14
2016	32	0.13
2017	31	0.12
2018	29	0.12
2019	28	0.11
2020	26	0.10
2021	25	0.10
2022	24	0.09
2023	23	0.09
2024	22	0.09
2025	20	0.08
2026	19	0.08
2027	18	0.07
2028	18	0.07

