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] [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]

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	[ <i>A</i>	<b>A</b> ]	Location -	Spacing Un	it - Directio	nal Drillin	ng ///r	EGEDV	
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		-	☑ DHC	☐ CTB	PLC	PC	OLS	DOEM	IVIGION
	[C	C)	Injection -	Disposal - I	Pressure Inc	rease - En	hanced Oil  Georgia	Recovery  PPR	
[2]	NOTIFIC	CATI	ON REQU	TRED TO:	- Check Th	ose Whic	h Apply, o	r 🗖 Does Not	Apply
	[/	A]	☐ Working	g, Royalty (	or Overridin	g Royalty	Interest O	wners	
	[]	B]	☑ Offset (	Operators, L	easeholders	or Surfac	e Owner		
	[0	C]	☐ Applica	tion is One	Which Req	uires Publ	ished Lega	l Notice	
	[]	D]			Concurrent	* *	•		
		E]	☐ For all o	of the above	e, Proof of N	Votificatio	n or Public	ation is Attach	ed, and/or,
		F]	☐ Waivers	s are Attach	ned				
	1								

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

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

	-V 22	
Kay Maddox	Truy Wladdox	
rint or Type Name	Signature	•

# State of New Mexico Energy, Minerals and Natural Rasources Department

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

#### **OIL CONSERVATION DIVISION** SITRICT II

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

APPROVAL	PROCESS
MAdministrative	a Mearing

## 811 SouthI First St. Artesia NM 88210 2835

DISTRICT III

1000 Rio Brazos Rd. Aztec, NM 87410 1693

APPLICATION FOR DOWNHOLE COMMINGLING

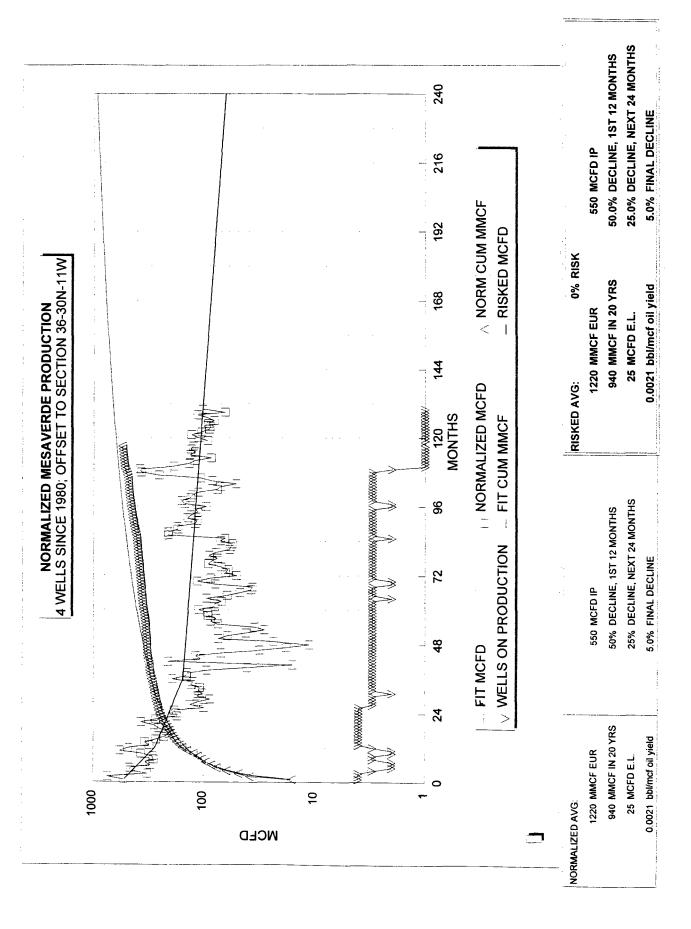
Administrative Hearing EXISTING WELLBORE YES NO

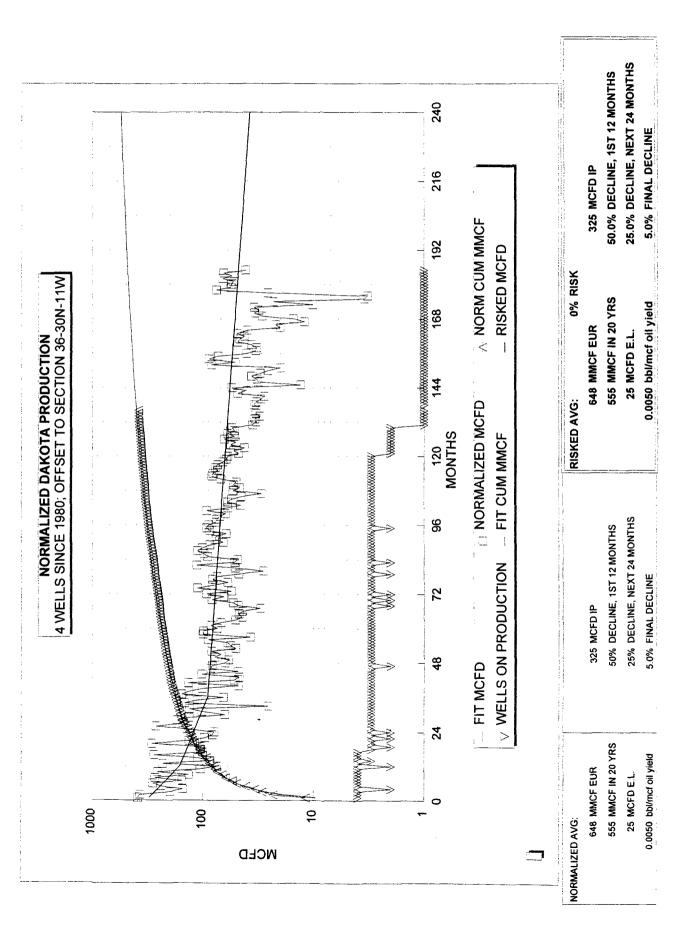
Conoco Inc.	10 Addres	Desta Dr. Ste 100W, Midland	Tx. 79705-4500
Ludwick LS	#18M	Section 6, T-29-N, R-10-W, F	San Juan
OGRID NO. 005073 Property Code	Well No Unit L		Jnit Lease Types: (check 1 or more) , State (and/or) Fee
The following facts ate submitted in support of downhole commingilng:	Upper Zone	intermediate Zone	Lower Zone
1. Pool Name and Pool Code	Blanco Mesaverde 72319		Basin Dakota 71599
TOP and Bottom of     Pay Section (Perforations)	4230-4830'		6755-6855'
3. Type of production (Oil or Gas)	Gas		Gas
Method of Production     {Flowing or Artificial Lilt}	Expected Flowing		Expected Flowing
5. Bottomhole Pressure Oil Zones - Artilicial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones:	a (Current) 606 b(Original)	a b.	a. 766 b.
All Gas Zones: Estimated Or Measured Original	1223		2485
6. Oil Gravity (°API) or Gas BT Content	1200 est		1200 est
7. Producing or Shut-In?			
Production Marginal? (yes or no)	No		Yes
If Shut-In give date and oil/gas/ water rates of Isst production	Date Rates	Date Rates:	Date 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/gas/ water rates of recent test (within 60 days)	To be supplied upon completion	Dale Rates	Date To be supplied upon completion
Fixed Percentage Allocation     Formula -% or each zone	oil: Gas %	oil: Gas %	Oil: <b>Gas</b> %
<ul> <li>10. Are all working, overriding, an If not, have all working, overriding, and If not, have all working, overriding and If not, have all working, overriding and If not, have all offset operators been</li> <li>11. Will cross-flow occur? X Y flowed production be recovered.</li> <li>12. Are all produced fluids from all 13. Will the value of production be 14. If this well is on, or community United States Bureau of Land 15. NMOCD Reference Cases for 16. ATTACHMENTS  * C-102 for each zone * Production curve for the production curve for t</li></ul>	orting data and/or explaining red royalty interests identical in a dring, and royalty interests bee given written notice of the project. No If yes, are fluids coed, and will the allocation formula commingled zones compatible decreased by commingling? ized with, state or federal land Management has been notified Rule 303(D) Exceptions:  The tobe commingled showing it is each zone for at least one year.	method and providing rate projects all commingled zones? In notified by certified mail? In posed downhole commingling? Impatible, will the formations not all a be reliable.  Yes Yes I le with each others  Yes X No (If Yes s, either the Commissioner of Fed in writing of this application.  ORDER NO(S).  S spacing unit and acreage decirate. (If not available, attach extractions and space is an interest of the commissioner of Fed in writing of this application.	A Yes No (If No, attach explanation)  Yes No
Por zones with no p Data to support allo Notification list of a Notification list of v Any additional state	or aduction history, estimated p cation method or formula. all offset operators. working, overriding and royalt ements, data, or documents rec	y interests for uncommon inter quired to support commingling. to the best of my knowledge an	est cases.  and belief.
SIGNATURE May	Muddex	TITLE Regulatory Agent	DATE
TYPE OR PRINT NAME Kay Mad	dox	TELEPHONE NO.	(915) 686-5798

\_\_TELEPHONE NO. <u>(915)</u> <u>686-5798</u>

# APPLICATION FOR DOWNHOLE COMMINGLING Ludwick LS 18M (6F 29N 10W)

As shown in the attached production plot for offsets to the Ludwick LS 18M, 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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State of New Morion Energy, Minerals & Natural Resources Department

Figure 3-17

Appropriate District Office
State Lease - 3 Copies

Olstrict II ,.PO Origin 30, Antesia, NM 38211-0719 OIL CONSERVATION DIVISION PO Box 2088 Otstrict III 1000 Rio Brazos Rd., Aztes, NM 87410 Santa Fe. NM 87504-2088

AMENDED REPORT

Orstnict 17 PO Box 2088, Santa Fe, NM 87504-2088

				WELL	LOCAT	ON AN	D AC	REAGE DED]	CAT	ION PL	.AT		
	'A	P[ Number	•	723	'Pool Cod		BL	ANCO MESA	VER(	Pool Nam DE / B		DAKOT	A
* 6	Property	Code			·		operty OWICK					€ M	ell Number 18M
	'OGAID N	lo.			<del></del>	°o <sub>p</sub>	erator	Name INC.					Elevation 5933
0	05073					10 Surfa		ocation					
u.	or lat na.	Section	Tawnshia	Pange	Lat Ian	Feet from		North/South line	Fee	t from the	East/We	st line	County
	F	6	29N	10W		145	0	NORTH	1	.505	WE	ST	SAN JUAN
u c	or lot no.	Section	11 B(	ottom Range	Hole L	ocatio		Different North/South line	Fro	m Surf	ace East/We	st lice	County
											2000,10	30 12.0	
1	icated Acres		<b></b> ↓.			13 Joint	or Infill	<sup>14</sup> Consolidation Code	15	Order No.	·L		·.
	20												
NC	) ALLOW	ABLE W	ILL BE A	SSIGNED ADALLET			LE 110	N UNTIL ALL	INTE	HESTS F	HAVE BE SION	EN CO	NSOLIDATED
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SUBMIT IN TRIPLICATE\*

FORM APPROVED

(July 1992)			STATES		ther instruct reverse sid	ions on e)	OMB NO. 100 Expires February	
· ·	DEPA	RTMENT	OF THE INTERI	OR			S. LEASE DSIGNATION A	ND SERIAL NO
	BUI	REAU OF LAI	ND MANAGEMENT	•			SF 07819	94
APPL	CATION	FOR PER	MIT TO DRILL	OR DE	EPEN		6 IF INDIAN, ALLOTTEE (	OR TRIBE NAME
la. TYPE OF WORK  D R	ILL 🛛		DEEPEN []				7 UNIT AGRREEMENT NA	ME
	AS WELL	OTHER	9 IN C 2 O N		MULTIPL ZONE	E $\square$	8. FARM OR LEASE NAME WEL	L NO
2. NAME OF OPERATOR	Canaga Ing						LUDWICK L	S #18M
	Conoco Inc.						9. API WELL NO	
a. ADDRESS AND TELEPHONE NO	•						-	
10 Desta	Dr. Ste 430	E, Midland, T	x. 79705-4500	915	5-686-5794		10. FIELD AND POOL, OR	WILDCAT
4. LOCATION OF WEL	L (Report loca	ion clearly and in	accordance with any S	ate requirem	ents *)		Blanco MV / Bas	sin Dakota
At surface			1450' FNL & 1505'	FWL			11. SEC, T., R., M., OR B. AND SURVEY OR ARE	LK.
At proposed prod. zo	ne		1450' FNL & 1505'	FWL			Sec. 6, T29N,	R10W
14. DISTANCE IN MILES	AND DIRECTIO	N FROM NEAEST	TOWN OR POST OFICE*				12 COUNTY OR PARISH	13. STATE
							San Juan	NM
5. DISTANCE FROM PROP LOCATION TO NEARES	T		16 NO O	F ACRES IN	LEASE		F ACRES ASSIGNED HIS WELL	
PROPERTY OR LEASE (Also to nearest dr	LINE, FT. lg. unit line, it	Any)					320	
8. DISTANCE FROM PROP TO NEAREST WELL, D			19. PROP	OSED DEPTH	1	20. ROTA	RY OR CABLE TOOLS	
OR APPLIED FOR, ON THE		LEIU,	1	7164			Rotary	

7164'

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

Rotary 22. APPROX. DATE WORK WILL START\*

5933' GR

4/15/98

PROPOSED	CASING AND	CEMENTING PROGRAM
INCIOUDD	CURRIO UND	CEMENTINGIACORAM

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#	2618'	320 sxs, circ.
6-1/4"	K-55, 4-1/2"	9.5#	6864'	460 sxs, toc @ 2450'

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.

1G N E D	M. L. & Minh	Mike L. Mankin  TILLE Right-of-Way Agent		March 3, 1998
This spac	ce for Federal or State office use)			
ERMIT NO		APPROVAL DATE		
	oproval does not warrant or certify that the applicant OF APPROVAL, IF ANY:	holds legal or equitable title to those righs in the subject lease wh	nich would entitle the appli	cant to conduct operation

Conoco, Inc. Ludwick LS #18M Section 6, T-29-N, R-10-W, F San Juan, New Mexico

S .. 5 5

RE: Application to Downhole Commingle (C-107A)

### **Notification Of Offset Operators:**

Dugan Production Corp. PO Box 420 Farmington, NM 87499-0420

Merrion Oil & Gas Corp. 610 Reilly Ave Farmington, NM 87401-2634

Amoco PO Box 800 Denver, CO 80201

Burlington Resources PO Box 4239 Houston, TX 77210-4239