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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

ight

ADMINISTRATIVE APPLICATION COVERSHEET

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS

ACTONYMS:

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]

[1]	TYPE OF AF [A]	PPLICATION - Check Those Which Apply for [A] Location - Spacing Unit - Directional Drilling NSL NSP DD SD APR 29 1998
	Check [B]	One Only for [B] and [C] Commingling - Storage - Measurement DHC CTB PLC PC CDS COLM
	[C]	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery □ wfx □ PMX □ SWD □ IPI □ EOR □ PPR
[2]	NOTIFICAT	ION REQUIRED TO: - Check Those Which Apply, or \square Does Not Apply
[2]	[A]	☐ 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
F21	INTEGRALAT	NON / DATA GUDMITTED IS COMPLETE. Graduate City 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.

		Kay Maddox	
Print	or	Type Name	

Signature

Regulatory Agent

D'ate

Title

Form 3 160-5 (June 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED			
Budget Bureau No 1	004-0135		
Expires: March 3	1 .1993		

5 Lease Designation and Serial No.

CONT 145

6. If Indian, Allonee or Tribe Name

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICA TE

Jicarilla
7. If Unit or CA, Agreement Designation

1. Type of Well		
Oil Gas Other		8. Well Name and No.
2. Name of Operator	Jicarilla K #17M	
CONOCO INC.		9. API Well No.
3. Address and Telephone No.		30-039-25842
10 DESTA DR. STE. 100W, MIDLAND), TX. 79705-4500 (915) 686-5424	10. FBlanco Mesaverde (92319)
4. Location of Well (Footage, Sec., T. R. M. or Survey De	escription)	Basin Dakota (71599)
Section 12	2, T-25-N, R-5-W, O	11. County or Parish, State
790' F	'SL & 1850' FEL	
		Rio Arriba, New Mexico
CHECK APPROPRIATE BOX	(s) TO INDICATE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION	
Notice of Intent	Abandonment	Change of Plans
_	Recompletion	New Construction
Subsequent Repon	Plugging Back	Non-Routine Fracrunng
	Casing Repair	Water Shut-Off
Final Abandonment Notice	Altering Casing	Conversion to Injection
	Other Name Change	Dispose Water
		INale: Reponresultsof multiplecompitiononWdl Completion or Recompletion Report and Log form.)
13. Describe Proposed or Completed Operations (Clearly state a)	il pertinent details, and give pertinent dates, including estimated date of starting	any proposed work If well is directionally drilled

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

This well was originally given the name Jicarilla K #17 E, since completion this well has become an infill well in multiple pools and should properly carry the "M" suffix .

Old Name: Jicarilla K # 17 E

New Name: Jicarilla K # 17 M

4. I hereby certify that the foregoing is true and correct				
Signed Signed	Title Regu	latory Agent	Date	May 27, 1998
(This space for Federai or State office use)				
Approved by	Title		Date	

BLM(6), NMOCD(1), SHEAR, PONCA, COST ASST, FILE ROOM

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 to any matter within its junsdiction.

Jicarilla K #17M Sundry Notice

Name Change

This well was originally given the name "Jicarilla K #17E" since it was to be drilled as a Mesaverde/Dakota infill well to an existing Dakota single well, with no accompanying Mesaverde completion. APD and Downhole Commingle paperwork were filed for with the OCD and the BLM with the original name.

Conoco's Jicarilla K #17 Dakota single well (SW/4 in a lay-down 320) was subsequently recompleted to the Mesaverde and DHC'd with the Dakota. While the "E" suffix was proper prior to the time of recompletion, the subject Mesaverde/Dakota well now becomes an infill well in multiple pools and should properly carry the "M" suffix. Therefore, the original "Jicarilla K #17E" should be changed to:

Jicarilla K #17M

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

BITRICTII d11 South First St. Artesia NM 38210 2835

Conoco Inc.		Desta Dr Ste 100W, Midlan	d, 1x. /9/05-4500
licarilla K	# 17 / M Unit	Section 12, T-25-N, R-5-W,	County
RIO NO 005073 Property Code	API NO		g Unil Luase Types (check for more) . State
The following facts ate submitted in support of downhole commingling.	Upper Zone	intermediate Zone	Lower Zone
I. Paol Name and Pool Code	Blanco Mesaverde 72319		Basin Dakota 71599
! TOP and Bottom of Pay Section (Perforations)	5922-6283'		7899-81291
Type of production (Oil or Gas)	Gas		Gas
Method of Production (Flowing or Artificial Lilt)	To Flow		To Flow
Battomhole Pressure	a . Current)	a	a
Dil Zones - Artilicial Lift Estimated Current	570		963
Gas & Oil - Flowing Measured Current	b(Original)	ь.	ь
All Gas Zones: Estimated Or Measured Original	1342		2849
Oil Gravity (*API) or Gas BT Content	1260		1248
Producing or Shut-In?	To be Completed		To be Completed
Production Marginal? (yes or no)	Yes (expected)		Yes (expected)
If Snut-In give date and oil/gas/ water rates of last production	Date Rates	Date	Date Rates
lote For new cones with no production history policant shad be required to allach production		<u> </u>	
off Producing date and oil/gas/ water rates of recent test (within 60 days)	Anticipated 1st Yr average 126 MCFD, 3.5 BOPD	Dale Rates	Anticipated 1st Yr Average 221 MCFD, 3.3 BOPD
B Fixed Percentage Allocation Formula -% or each zone	345	Gas	···· Gas
If allocation formula is based u submit attachments with supp	ipon something other than cur	rent or past production, or is	pased upon some other metho
Are all working, overriding, an If not, have all working, overri Have all offset operators been	d royalty interests identical in ding, and royalty interests bee	all commingled zones? en notified by certified mail?	X Yes - No Yes - No
Will cross-flow occur? X Y flowed production be recovere			
Are all produced fluids from all			Yes No
Will the value of production be	•		res, attach explanation)
. If this well is on, or community United States Bureau of Land	zed with, state or federal land Management has been notifie	s either the Commissioner of	Public Lands or the
NMOCD Reference Cases for I		ORDER NO(S).	
*Production curve fo • For zones with no • Data to support allo • Notification list of a • Notification list of a	e to be commingled showing it or each zone for at least one ye reduction history, estimated p cation method or formula. If offset operators, working, overriding and royal ments, data, or documents rec	ts spacing unit and acreage dear. (If not available, attach erroduction rates and supporting) interests for uncommon into	eplanation.) g data. crest cases.

I hereby certify that the information above is true and complete	to the best of my knowledge .	and belief.
- Flow / D. 11	TITLE Regulatory Agent	DATE 4/24/98
TYPE OR PRINT NAME Kay Maddox	TELEPHONE NO	(915) 686-5798

A RESERVE DECIDENCE AND A

reverse sides

FORM APPROVED CMB NO. 1004-0136 Expires February 28, 1995

UNITED STATES DEPARTMENT OF THE INTERIOR

1 CEASE DISIGNATION AND SERIAL NO

	SUREAU OF	LAND MANAGEMEN	· ·	CONT 145	
APPLI	CATION FOR PE	RMIT TO DRILL	OR DEEPEN	AIF INDIAN, ALLOTTEE OR TRIBE	NIME
CHAPTE FORE				JICARILLA	
	alt. 🖾			TONIT NGRREEMENT NAME	
TYPE IN ALL.	SLU OTHER		ADDE X	I FARM OR LEASE NAME WELLING	
LANE E COPERA TOP		* ' '	· KI KONE	18023 JICARILLA K #177	11
C	Conoco Inc. 5073			2 APLINELL NO	' (
ONESS NO TELEPHONE NO				30-039-2584	4
	Dr. Ste 430E, Midland		915-686-5794	10 FIELD AND POOL, OR WILDCA	<u>.</u>
OCKTION OF WELL	LiReport location clearly ar			Blanco MV/Basin Dako	ta
		790' FSL & 1850'	reL	11 SEC.T.R.M.ORBLK AND SURVEYOR AREA	
Acgragased prodizan	•	790' FNL & 1850	' FEL	Sec. 12, T25N, R5W	
DISTANCE IN MILES A	NO DIRECTION FROM NEA	EST TOWN OR POST OFICE	•	IZ COUNTY OR PARISH 13 STA	TE
				Rio Arriba N	M
DISTANCE FROM PROPO)SED.	16.50	OF ACRES IN LEASE	17. NO OF ACRES ASSIGNED TO THIS WELL	
PROPERTY OR LEASE (Also to nearest dri	LINE, FT z. unit line, if Anv)			5/320 5/32	0
DISTANCE FROM PROP		19 23	OPOSED DEPTH	20. ROTARY OR CABLE TOOLS	
OR APPLIED FOR, ON TH	IS LEASE, FT,		8429'	Rotary	
TW WORE) SHOITAVELE	ether DF, RT, GR, etc.)			12. APPROX. DATE WORK WILL	STAR
·		7379' GR		4/15/98	
		PROPOSED CASING AND	CEMENTING PROGRAM		
SIZE OF HOLE	CHACE AXE CLYANG	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT	
3.23 3		24#	300'	130 sxs, circ.	
11"	K-55, 8-5/8"		<u> </u>		
11" 7-7/8" is proposed to drill quisition of sufficied NMOCD prior to	K-55, 5-1/2" verical wellbore to be dent production test data	15.5# ownhole commingled for allocation purposes	8129' in the Blanco Mesaver A downhole commin	e and Basin Dakota Pools following the gling application will be filed with the lequipped according to the following	
7-7/8" is proposed to drill quisition of sufficied NMOCD prior to achments: Well Location & A Proposed Well Placementing Plan. Blowout Prevente Surface Use Plan Pipeline survey pl	Verical wellbore to be dent production test data to commingling. A NOS Acerage Dedication Platan Outline. r Hookup. with Production Facility	ownhole commingled for allocation purposes was filed 10/31/97. T (C-102) and other assort	in the Blanco Mesaver. A downhole commin his well will drilled and occiated plats.	e and Basin Dakota Pools following the gling application will be filed with the equipped according to the following	
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*See Instructions On Reverse Side

Title 13 U.S.C. Seption 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, flotitious or fraudulent statements or representations as is any matter within its jurisdiction.

State of New Mexico Energy, Minerals and Natural Rasources Department

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

OIL CONSERVATION DIVISION

<u>BITRICT II</u> 811 SouthI First St. Artesia NM 88210 2835

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

-	APPROVAL P	ROCESS:
	Administrative	Hearing

DISTRICT III 1000 Rio Brazos Rd. Aztec, NM 87410 1693

APPLICATION FOR DOWNHOLE COMMINGLING

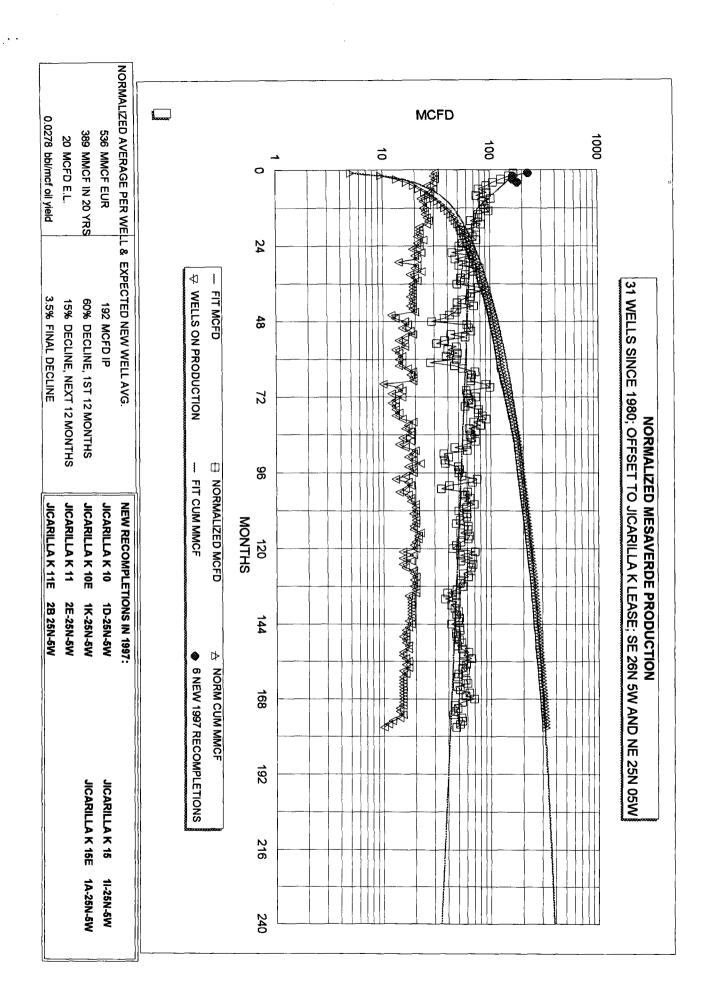
EXISTING	WEL	LBORE
	YES	NO

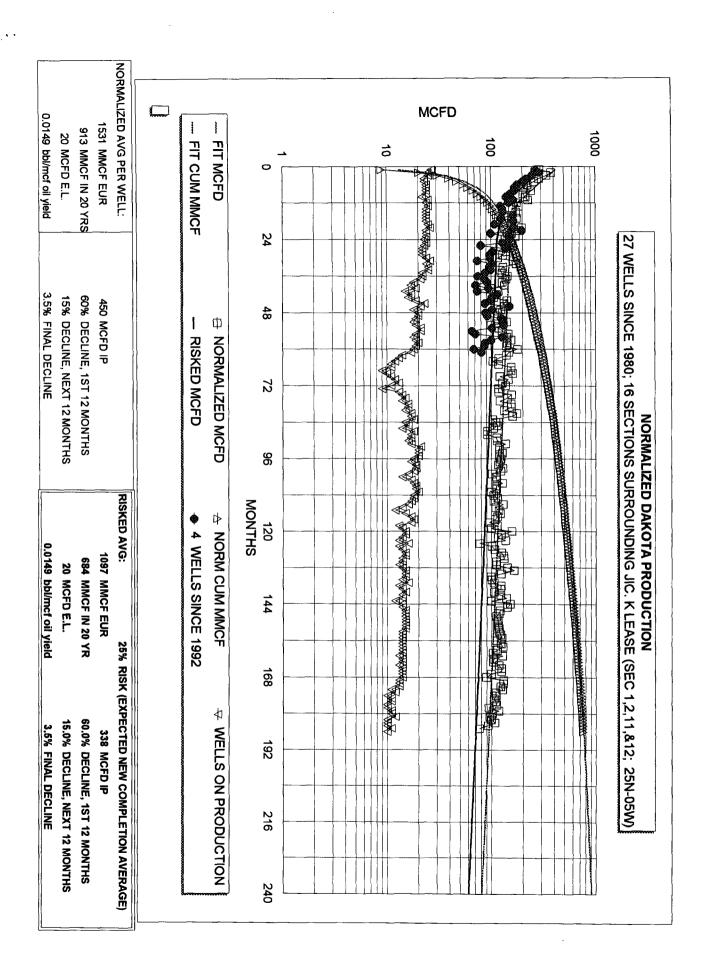
Conoco Inc.	10 Addres	Desta Dr. Ste 100W, Midland	Tx. 79705-4500	
Operator Jicarilla K	# 17 E	Section 12, T-25-N, R-5-W, C) Rio Arriba	
Lease OGRID NO. 005073 Property Code	eAPINO.	· •	Juit Lease Types: (check 1 or more) , State (and/or) Fee	
The following facts ate submitted in support of downhole commingling:	Upper Zone	intermediate Zone	Lower Zone	
Pool Name and Pool Code	Blanco Mesaverde 72319		Basin Dakota 71599	
2. TOP and Bottom of Pay Section (Perforations)	5922-6283'		7899-8129'	
3. Type of production (Oil or Gas)	Gas		Gas	
Method of Production {Flowing or Artificial Lilt}	To Flow		To Flow	
5. Bottomhole Pressure Oil Zones - Artilicial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones:	a (Current) 570 b(Original)	a.	963 b.	
All Gas Zones: Estimated Or Measured Original	1342	0.	2849	
6. Oil Gravity (°API) or Gas BT Content	1260		1248	
7. Producing or Shut-In?	To be Completed		To be Completed	
Production Marginal? (yes or no)	Yes (expected)		Yes (expected)	
If Shut-In give date and oil/gas/ water rates of lsst production Note For new zones with no production history applicant shad be required to attach production	Date Rates	Date Rates:	Date Rates	
estimates and supporting dara • If Producing, date and oil/gas/ water rates of recent test (within 60 days)	Anticipated 1st Yr Rates average 126 MCFD, 3.5 BOPD	Dale Rates	Anticipated 1st Yr Average 221 MCFD, 3.3 BOPD	
Fixed Percentage Allocation Formula -% or each zone	oil: Gas %	oil: 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? 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 the formations not be damaged, will any cross-flowed production be recovered, and will the allocation formula be reliable. 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) 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. X Yes No 15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S). 16. ATTACHMENTS 16. ACTACHMENTS 17. C-102 for each zone to be commingled showing its spacing unit and acreage dedication. 18. Production curve for each zone for at least one year. (If not available, attach explanation.) 18. For zones with no production history, estimated production rates and supporting data.				
* Data to support allo * Notification list of a * Notification list of a * Any additional state hereby certify that the informatio	cation method or formula. Il offset operators. working, overriding and royalty ements, data, or documents req	y interests for uncommon inter- uired to support commingling.	est cases.	
	701 11	TITLE Regulatory Agent	1 1 /	
TYPE OR PRINT NAME Kay Made	dox	TELEPHONE NO.	(915) 686-5798	

APPLICATION FOR DOWNHOLE COMMINGLING

Jicarilla K 17E, Unit Letter O, Section 12-T25N-R5W Rio Arriba County, New Mexico

As shown in the attached production plot for offsets to the Jicarilla K 17E, estimated ultimate recoveries and initial production rates from infill wells to the Dakota and Mesaverde formations are clearly marginal in this area. Mesaverde estimated recoveries in particular do not justify drilling stand alone wells (389 MMCF recovery in 20 years, 536 MMCF ultimate recovery). Futhermore, 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 Conoco's 28-7 Unit and reference is made to Order R-10476-B as it applies to downhole commingling of marginal zones and the allocation of production between such zones.





BOND FOR TROPERCAL. CHYONUSA APPROVED electron arms toon, en CMB NO 1004-0136 UNITED STATES Expires February 28, 1995. DEPARTMENT OF THE INTERIOR S LEATE DISIGNATION AND SERIAL NO BUREAU OF LAND MANAGEMENT **CONT 145** 5 IF INDIAN, ALLOTTEE OR TRIBE NAME APPLICATION FOR PERMIT TO DRILL OR DEEPEN **JICARILLA** L CAPE OF WORK 7 UNIT AGRREEMENT NAME DRH.L. 🔯 DEEPEN [TYPE OF WILL MISSINGER. A FARM OR LEASE NAME WELL NO OFFICE ZONE NAME OF OPERATOR JICARILLA K #17E Conoco Inc. 2 APLWELL NO A ADDRESS AND TELEPHONE NO 10 Desta Dr. Ste 430E, Midland, Tx. 79705-4500 10. FIELD AND POOL, OR WILDCAT 915-686-5794 I LOCATION OF WELL (Report location clearly and in accordance with any State requirements *) Blanco MV/Basin Dakota At surface 790' FSL & 1850' FEL SEC, T, R, M, OR BLK AND SURVEY OR AREA At proposed prod. zone 790' FND& 1850' FEL Sec. 12, T25N, R5W 14 DISTANCE IN MILES AND DIRECTION FROM NEAEST TOWN OR POST OFICE 12 COUNTY OR PARISH 13. STATE NM Rio Arriba 5. DISTANCE FROM PROPOSED* 16 NO OF ACRES IN LEASE 17. NO. OF ACRES ASSIGNED TO THIS WELL LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT
(A iso to nearest drig, unit line, if Any)

a. DISTANCE FROM PROPOSED LOCATION* 19. PROPOSED DEPTH 20. ROTARY OR CABLE TOOLS TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT, 8429' 21. ELEVATIONS (Show whether DF, RT, GR, etc.) 22. APPROX. DATE WORK WILL START* 7379' GR 4/15/98 23 PROPOSED CASING AND CEMENTING PROGRAM WEIGHT PER FOOT QUANTITY OF CEMENT SIZE OF HOLE SETTING DEPTH GRADE SIZE OF CASING 11" K-55, 8-5/8" 24# 300' 130 sxs, circ. 7-7/8" K-55, 5-1/2" 15.5# 8129 1180 sxs,circ.

It is proposed to drill verical wellbore to be downhole commingled in the Blanco Mesaverde and Basin Dakota Pools following the acquisition of sufficient production test data for allocation purposes. A downhole commingling application will be filed with the BLM and NMOCD prior to commingling. A NOS was filed 10/31/97. This well will drilled and equipped according to the following attachments:

- 1. Well Location & Acerage Dedication Plat (C-102) and other associated plats.
- 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 and access road.	
IN ABOVE SPACE DESCRIBE PROPOSED PROGRA deepen directionally, give pertinent data on subsurface location	I.M.: If proposal is to deepen give data on present productivens and measured and true vertical depths. Give blowout pres	ve zone and proposed new productive zone. If proposal is to drill or wenter program, if any.
24. SIGNED 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Mike L. Mankin TITLE Right-of-Way Agent	DATE March 4, 1998
(This space for Federal of State office use)		
PERMIT NO	APPROVAL DATE	
Application approval does not warrant or certify that the app	plicant holds legal or equitable title to those righs in the subjec	ct lease which would entitle the applicant to conduct operations thereon.
CONDITIONS OF APPROVAL, IF ANY:		
APPROVED BY	TITLE	DATE
	*See Instructions On Reverse Side	

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OBL CONSIERVATION SIZZISEDY PO Box 2088 Santa Fe, NM 87504-2089

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WELL LOCATION AND ACREAGE DEDICATION PLAT

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Jicarilla K #17E Section 12, T-25-N, R-5-W, Rio Arriba County, TX

RE: Application C-107A to Downhole Commingle

Notification of Offset Operators:

Burlington Resources PO Box 4289 Farmington, NM 87499

Amoco PO Box 800 Denver, CO 80201

A copy of the C-107A has been sent to the above listed parties