State of New Mexico Energy, Minerals and Natural Rasources Department OIL CONSERVATION DIVISION

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

STRICT II

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

APPROVAL PROCESS:

Administrative Hearing

EXISTING WELLBORE

811 SouthI First St. Artesia NM 88210 2835

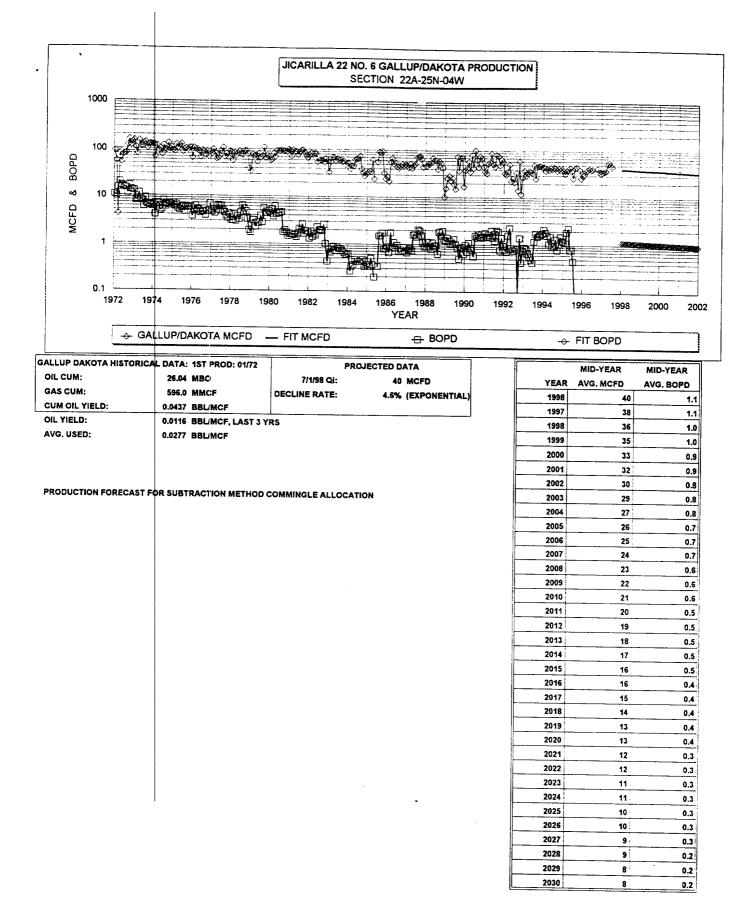
DISTRICT III

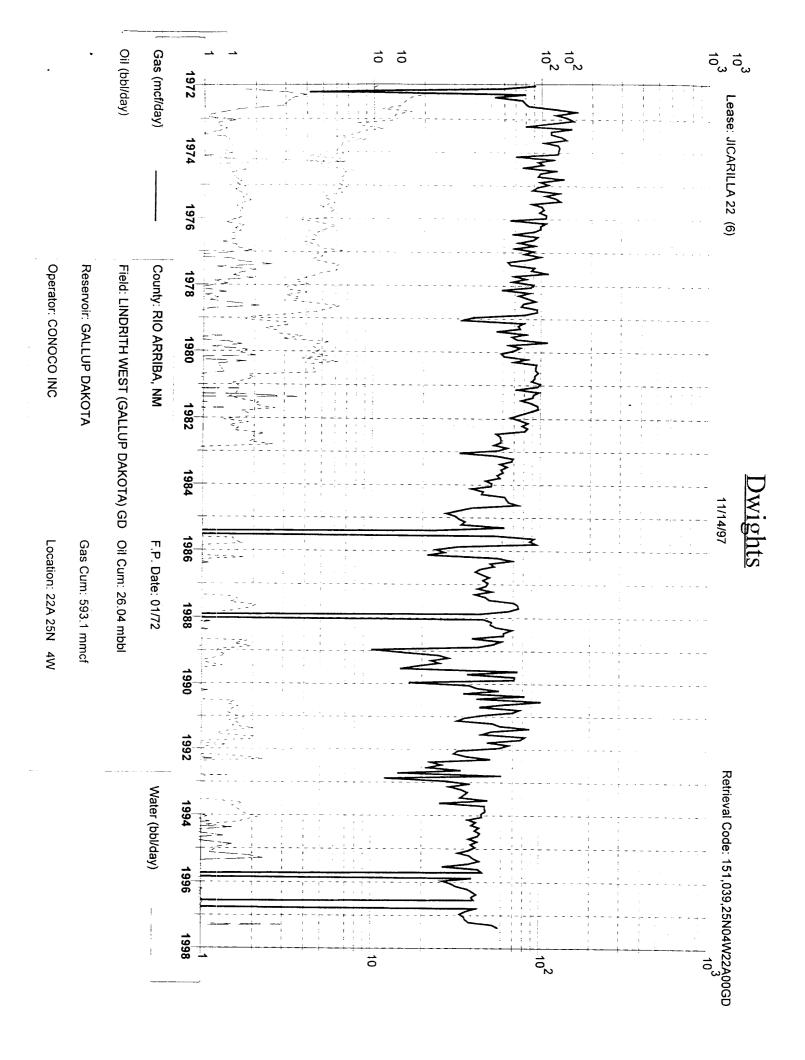
1000 Rio Brazos Rd Aztec, NM 87410 1693

APPLICATION FOR DOWNHOLF COMMINGLING

Conoco Inc.	Addre	Desta Dr. Ste 100W, Midlan	d, Tx. 79705-4500
carilla 22	6	A Section 22, T-25-N, R-4-W,	A Rio Arriba
GRID NO. 005073 Property Cod	le <u>003203</u> API NO.		Unit Lease Types (check 1 or more)
The following facts ate submitted in support of downhole commingling:	Upper Zone	intermediate Zone	Lower Zone
1. Pool Name and Pool Code	Blanco Mesaverde 72319		Lindrith Gallup-Dakota, We
2. TOP and Bottom of Pay Section (Perforations)	5702-5884'		6835-7990'
3. Type of production (Oil or Gas)	Gas	DECEMBO	Oil
Method of Production (Flowing or Artificial Lilt)	То ритр	N APR - 7 1998	Artificial Lift
i. Bottomhole Pressure Dil Zones - Artilicial Lift: Estimated Current	a (Current) 583	on con div	a. 860
Gas & Oil - Flowing: Measured Current II Gas Zones: Estimated Or Measured Original	b(Original)	b. Disis &	b. 2644
. Oil Gravity (*API) or Gas BT Content	1269		1269
. Producing or Shut-In?	To be Completed		Producing
Production Marginal? (yes or no)	Yes		Yes
If Shut-In give date and oil/gas/ water rates of last production	Oate	Date	Date
ole For new zones with no production hiStory opilicant shad be required to atlach production	Rates	Kates:	Rales
If Producing date and oil/gas/ water rates of report test (within 60 days)	Production to be allocated by subtraction - See attached table	Dale Rates	Est 7/98 Rates 40 MCFD, 1.1 BOPD 0 BWPD
Fixed Percentage Allocation Formula % or each zone	"II % Gas %	uil Gas %	ол Gas %
Are all working, overriding, and If not, have all working, overridate all offset operators been will cross-flow occur? X Yellowed production be recovered. Are all produced fluids from all will the value of production be If this well is on, or communiting United States Bureau of Land NMOCD Reference Cases for FATTACHMENTS * C-102 for each zone Production curve for zones with no production list of all Notification list of all Notification list of all Notification list of well all workings.	d royalty interests identical in a ding, and royalty interests been given written notice of the propes. No If yes, are fluids cord, and will the allocation formul commingled zones compatible decreased by commingling? Zed with, state or federal lands Management has been notified Rule 303(D) Exceptions: It to be commingled showing its reach zone for at least one year roduction history, estimated preation method or formula.	nethod and providing rate project. It commingled zones? In notified by certified mail? losed downhole commingling? Impatible, will the formations not labe reliable. X Yes ! e with each others Yes No (If Yes, either the Commissioner of Find in writing of this application. ORDER NO(S). It is spacing unit and acreage decar. (If not available, attach exproduction rates and supporting of interests for uncommon interests.)	X Yes No Yes No X Yes No X Yes No X Yes No Of be damaged, will any cross No (If No, attach explanation) Yes No Public Lands or the X Yes No Itication. Itication. Idanation.) Idata.

TITLE Regulatory Agent DATE February 16, 1998 TYPE OR PRINT NAME Kay Maddox _TELEPHONE NO. (915) 686-5798





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 District IV

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

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

PO Box 2088,	Santa Fe	. NM 87	504	-2088									NDED REPOR	
		7	WE	LL LO	CAT	ON AN	ND AC	CRE	EAGE DEDI	CATION PL	ΑT			
API Number 2 Pool Code						3 Pool Name								
	-03 9-2 04	442 72319						Blanco Me	saverde					
4 Property									Name			6 W 6	ell Number	
7 OGRID No							Jicari						#6	
00507		C	onc	oco Inc	10 De	eta Driv			or Name IW, Midland, T.	V 70705 4500		9 Elevation		
00307				700 1110.,	10 00				ocation	A 79705-4500)		7112' GL	
UL or lot no.	Section	Towns	hip	Range	Lot Id		from the		North/South line	Feet from the	East/We	est line	County	
A	22	25N	,	'4W			830		North	670				
	·	1			ttom]	Hole Lo		n If	Different Fro		Ea	ast	Rio Arriba	
Ut., or lot no.	Section	Towns	hip	Range	Lot Id		from the		North/South line	Feet from the	East/We	st line	County	
		<u> </u>												
12 Dedicated Acre	s 13 Join	t or Infil	14	Consolidation	on Code	15 Order N	0.			<u> </u>		·		
320	NA DE S													
NO ALLO	WABLE	WILL E	SE A	NON-ST	D TO	THIS CO	MPLE:	TIO	N UNTIL ALL I	NTERESTS H	AVE BE	EN CON	SOLIDATED	
16	- i				E	**********	HILL	 	HITTHIA	###&				
					E				`.	표			IFICATION	
					Ē				830	true and comp	fy that the in lete to the b	nformation est of my ki	contained herein is nowledge and belief	
					Ē				1	Ħ				
					Ē				ŏ (•	,			
					Ē				670			101	11 /	
					ŧ	*		+			<u>uj 1</u>	1/ab	THEX	
					Ī					Signature	Kay	Maddox	ζ.	
					Ŧ					Printed Name	2			
					ŧ					Title	Regula	tory Ag	ent	
					ŧ					=	2/10	,/98		
					<u>‡</u>					Date	7	1		
					Ī					18 SURV	/EYOR	CERT	IFICATION	
										I hereby certi	fy that the w	ell location	n shown on this plat	
					ŧ					was plotted fr.	om field note unervision	es of actual	surveys made by me ne same is true and	
					ŧ					correct to the			- some is true and	
	l				ŧ									
					<u> </u>					Date of Surve	-	faccional S	à in courc	
					ŧ					and the second	· — M FIL		au voyur.	
					E					Ĭ				
					Ē					I				
	Ì				Ē					±				
	ļ				Ē					Certificate Nu	mher			
<u> </u>					 		*****		***************************************	iii —				

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACERAGE DEDICATION PLAT

		All dista	aces must be	from the	outer boundark	es of the Sec	tion		
Operator CONI	IMENTAL OIL			Legge	JICARIL			l Well No	
Unit Letter	Section 22	Township	holth	Rang		County	TO ADDITE	• • • • • • • • • • • • • • • • • • • •	
Actual Footage Lo							RIO ARPIBA	A	
830 Ground Level Elev	feet from the	METH	interest	670	t	eet from the	EAST	line	
7112.0	Producing	rormation		Poct			1	Dedicated Avereag	e
	acerage dedica			· !			ļ		Acres
3. If more the by communitiz	an one lease of ation, unitization	different owne n, force-pooli answer is "ye	J. 4.6.					wners been con	nsolidated
If answer is "n	o," list the own	ers and tract o	descriptions	which ho	ave actually	consolidat	ed. (Use reve		
No allowable w pooling, or othe	ill be assigned to erwise) or until o	the well until	all interest unit, elimir	ts have bo	een consolic ich interests,	lated (by , has been	communitization	on, unitization, ne Commission.	forced-

Sec. 22

SAN JUAN ENGINEERING COMPANY,

FARMINGTON, N. M.

CERTIFICATION

	. ~ ~		^ 1 1 0	•	
hereby	certify t	hat the	informat	ion contain	ed
herein is t	rue and	complete	to the	best of i	ny
knowledge o	ind belief.			•	
Name					_
	j				
Position					
Company					_
					
Date					-
					_
l hezebu	earlife th	- A A B			
this plot we	s olotted	from fi	eld note	on shown o	. 1
surveys mode	by me	er under	MA ZHO	s or octua	.1
that the sam	e is true	end corre	ect to the	best of m	7
knowledge a	nd belief,				•
Date Surveys	rémber	_197	L		
Convey	ے				-
·		7.)	. ,		-
registered P	rofessional	Enouna	ie	220	- -
registered P	rofessional Surveyor,	Engine	<u>ie</u>	220	-
and/or. Land	rofessional Surveyor,		se T	one	-

Conoco, Inc. Jicarilla 22 #6 Section 22, T-25-N, R-4-W, A Rio Arriba County, New Mexico

Re: Application for Downhole Commingling

Offset Operators:

Burlington Resources Oil & Gas PO Box 4289 Farmington, New Mexico 87499

Robert L. Bayless PO Box 168 Farmington, New Mexico 87499

Chace Oil Co. Inc. 5577 S Lewis Tulsa, Oklahoma 74105

M&W Petroleum Corp. 200 Post Oak Blvd Ste 100 Houston, Tx 77056-4400

CONDITIONS OF APPROVAL FOR DOWNHOLE COMMINGLING

Operator	Conoco Inc.	Well Name	Jicarilla 22 #6

- 1. The individual production zones will be tested every three years, or more often if production rates indicate a change to allocation factors, to verify that the allocation factors and methods remain proper.
- 2. Production from downhole commingled wells are to be reported with an alpha character, "C" (ie C1, C2, etc).
- 3. The following modifications to your downhole commingling program are to be made:

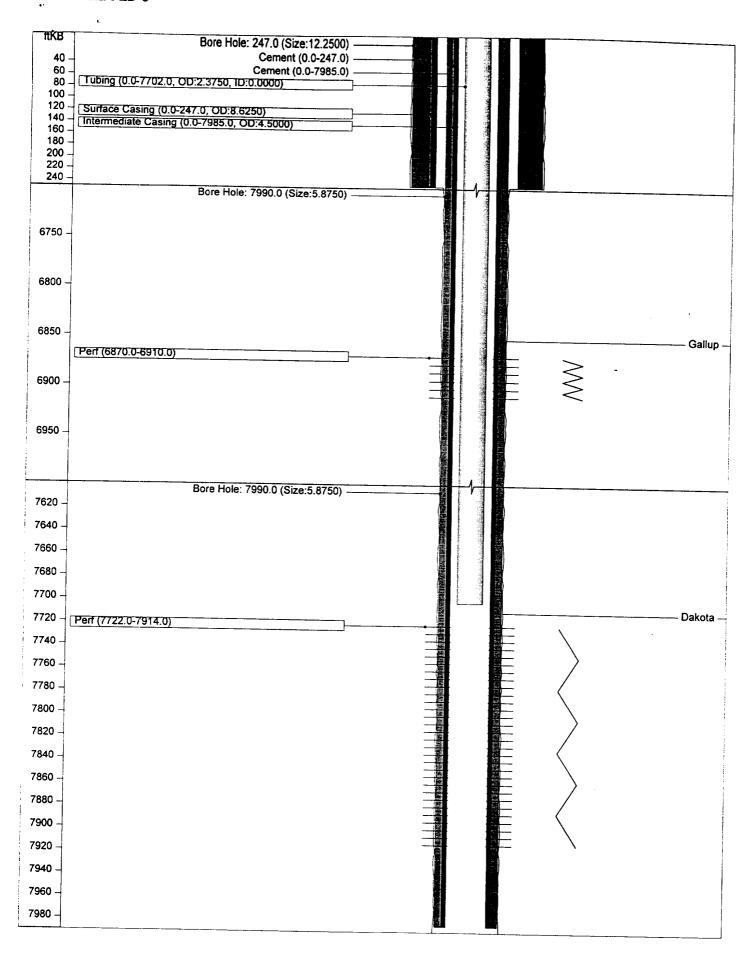
None

Jicarilla #22-6

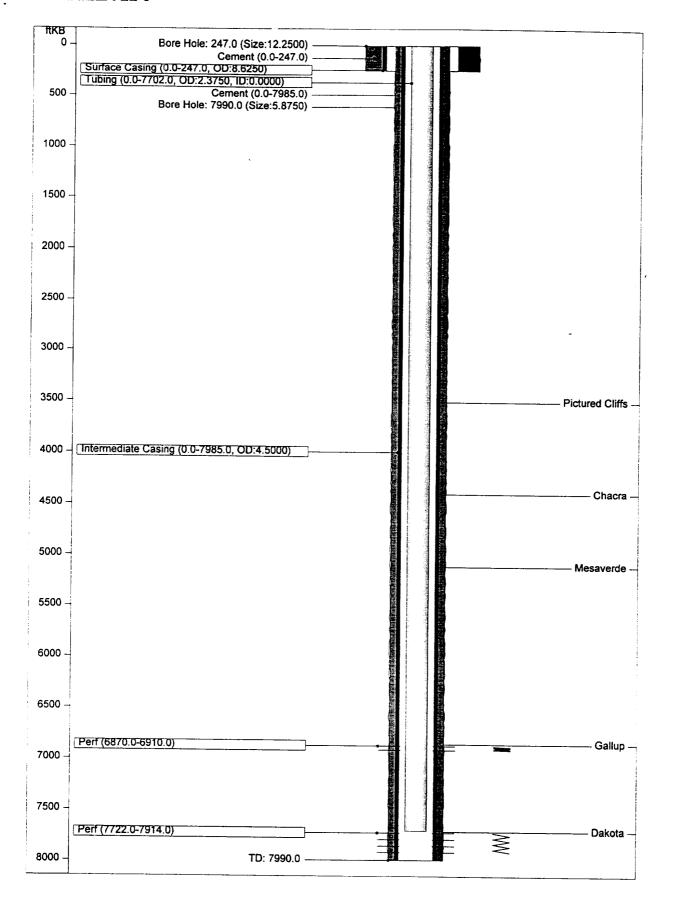
Economic Evaluation

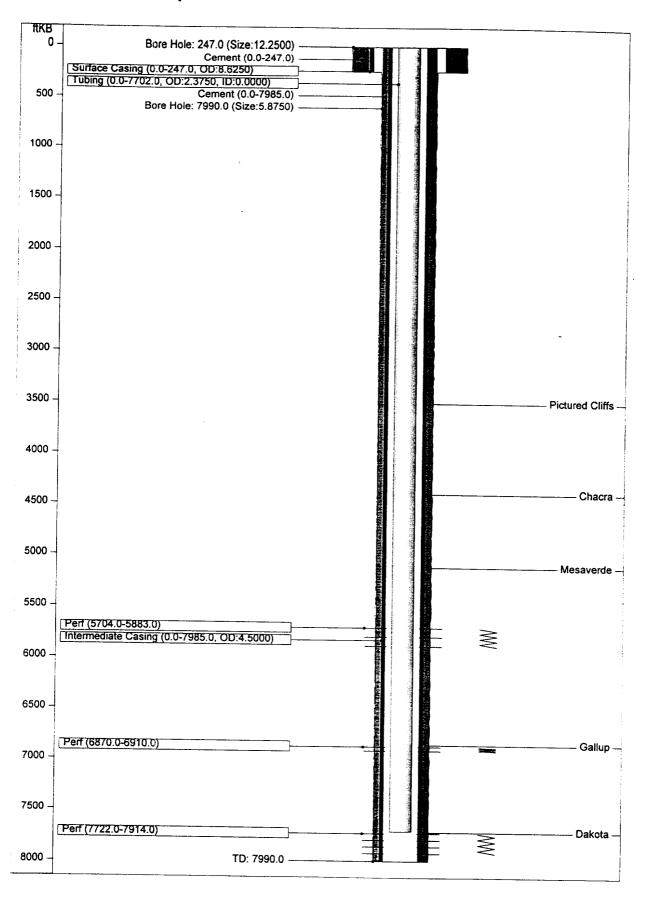
The subject wellbore has 4.5" casing (ID of 3.957"). It is physically impossible to install 2 strings of tubing in the wellbore to produce each zone separately.

Production from each of the two zones (Gallup/Dakota & Mesa Verde) is marginal and artificial lift equipment (plunger lift) will be required to remove fluids from the wellbore in order to produce the well at the most efficient rate. The use of 2.375" tubing is the preferred size of tubing to install and operate plunger lift systems in.

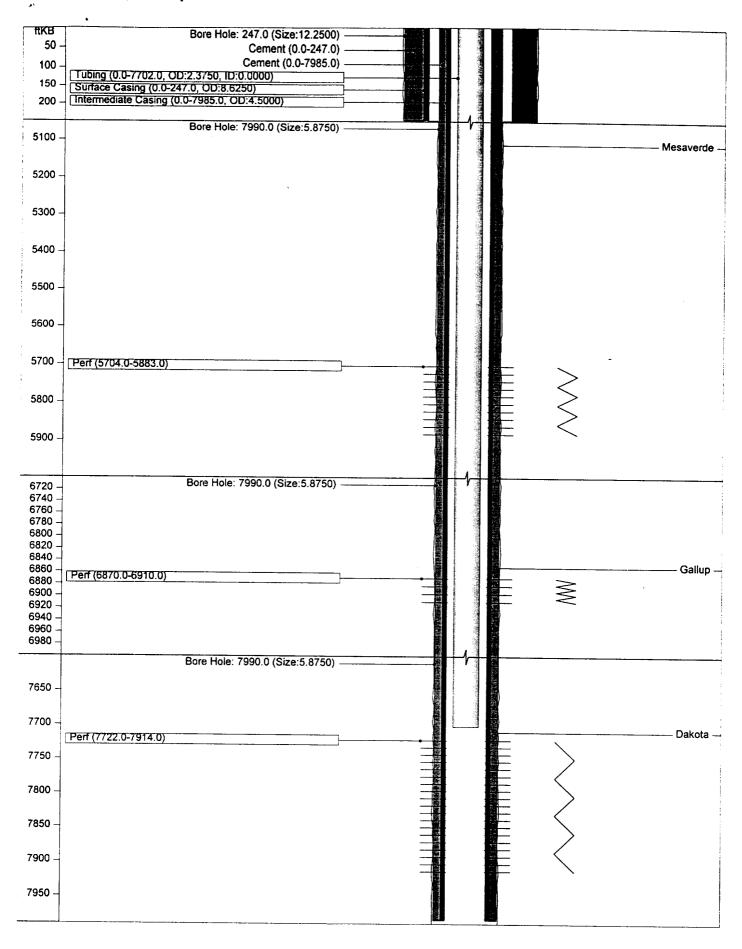


JICARILLA 22 6





JICARILLA 22 6 - Proposed



Economic/Rate Justification (Generic)

Approval is requested to recomplete the subject well to the Blanco Mesaverde and commingle with existing producing horizons. Expected rate and recovery from the Mesaverde is illustrated on the attached "Normalized Mesaverde Production" plot. This plot (attached to C107A form) is constructed from the more recent offset Mesaverde production data and provides a good estimate of the performance of the subject well. Clearly, the expected risked reserves are not sufficient to justify drilling a new, grass roots well. To prevent waste, these reserves must be accessed by the subject wellbore.

Production from the existing zones is established by ample production history. A production plot is attached that shows past and best-fit projections of future production for the existing zones. A table showing estimated future production for each existing zone is attached. This table (attached to C107A form) will be used to allocate commingled production to the new Mesaverde zone by the subtraction method (existing production shown on the table attached to the C107A will be subtracted from total metered production after adding the Mesaverde zone; the balance will be reported as Mesaverde production).

