State of New Mexico Energy, Minerals and Natural Rasources Department

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

OIL CONSERVATION DIVISION

BITRICT II
811 SouthI First St. Artesia NM 88210 2835

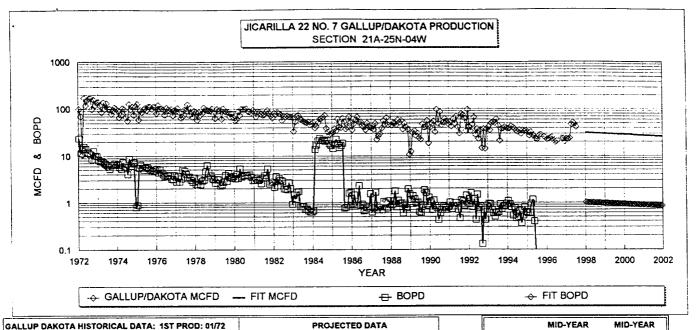
2040 S. Pacheco Santa Fe, New Mexico 87505-6429 APPROVAL PROCESS:

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

APPLICATION FOR DOWNHOLE COMMINGLING

Administrative	learing
EXISTING WELL	BORE
🛛 YES	NO

Conoco Inc.		0 Desta Dr. Ste 100W, Midland	l, Tx. 79705-4500
Jicarilla 22	7	Section 21, T-25-N, R-4-W, A	A Rio Arriba
OORID NO 005073 Property Cod		Spacing	Unit Lease Types: (check 1 or more)
The following facts ate submitted in support of downhole comminging:	Upper Zone	intermediate Zone	Lower Zone
Pool Name and Pool Code	Blanco Mesaverde 72319		Lindrith Gallup-Dakota, West 39189
2 TOP and Buttom of Pay Section (Perforations)	5697-6000'		6831-7967'
3. Type of production (Oil or Gas)	Gas		Oil
4. Method of Production (Flowing or Artificial Lilt)	To Flow		Flowing
5. Bottomhole Pressure	a (Current)	ARAMMER	a .
Oil Zones - Artilicial Lift: Estimated Current	583	Inest of the second of the sec	860
Gas & Oil - Flowing: Measured Current	b(Original)	APR - 7 1998 15	b.
All Gas Zones: Estimated Or Measured Original			
	1314	- OHL GOM: DHY	497
6. Oil Gravity (*API) or Gas BT Content	1269	DIGI. 3	1269
	1209		1207
7. Producing or Shut-In?	To be completed		Producing
Production Marginal? (yes or no)	Yes		Yes
If Shut-In give date and oil/gas/	Date	Date	Date
water rates of lsst production	Rutes	H a)c1:	flates
Note For new zones with no production hiStory applicant shad be required to altach production estimates and supporting dara	B 1 .: 1		D . 7/00
If Producing, date and oil/gas/ water rates of recent test (within 60 days)	Production to be Rates allocated by subtraction See attached table	Dale - Rales	Est 7/98 Bate 30 MCFD, I BOPD, 0 BWPD
8. Fixed Percentage Allocation Formula -% or each zone	ual Gas %	oil: Gas %	υii. Gas %
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, over	orting data and/or explaining d royalty interests identical in iding, and royalty interests be given written notice of the profes No If yes, are fluids ced, and will the allocation form II commingled zones compatite decreased by commingling? ized with, state or federal land Management has been notificated with the commingled showing or each zone for at least one yor oduction history, estimated cation method or formula. It offset operators.	method and providing rate project all commingled zones? en notified by certified mail? possed downhole commingling? ompatible, will the formations not all a be reliable. X Yes! ble with each others X Yes! Yes X No (If Yes described in writing of this application.	X Yes No Yes, attach explanation Yes No Yes Yes No Yes Yes No Yes Yes Yes No Yes
hereby certify that the information	on above is true and complete	e to the best of my knowledge ar	nd belief.
SIGNATURE	Miller	TITLE Regulatory Agent	DATE February 16, 1998
YPE OR PRINT NAME <u>Kay Mad</u>			



 GALLUP DAKOTA HISTORICAL DATA:
 1ST PROD: 01/72
 PROJECTED DATA

 OIL CUM:
 33.67 MBO
 7/1/98 Qi:
 30 MCFD

 GAS CUM:
 589.7 MMCF
 DECLINE RATE:
 4.6% (EXPONENTIAL)

 CUM OIL YIELD:
 0.0571 BBL/MCF

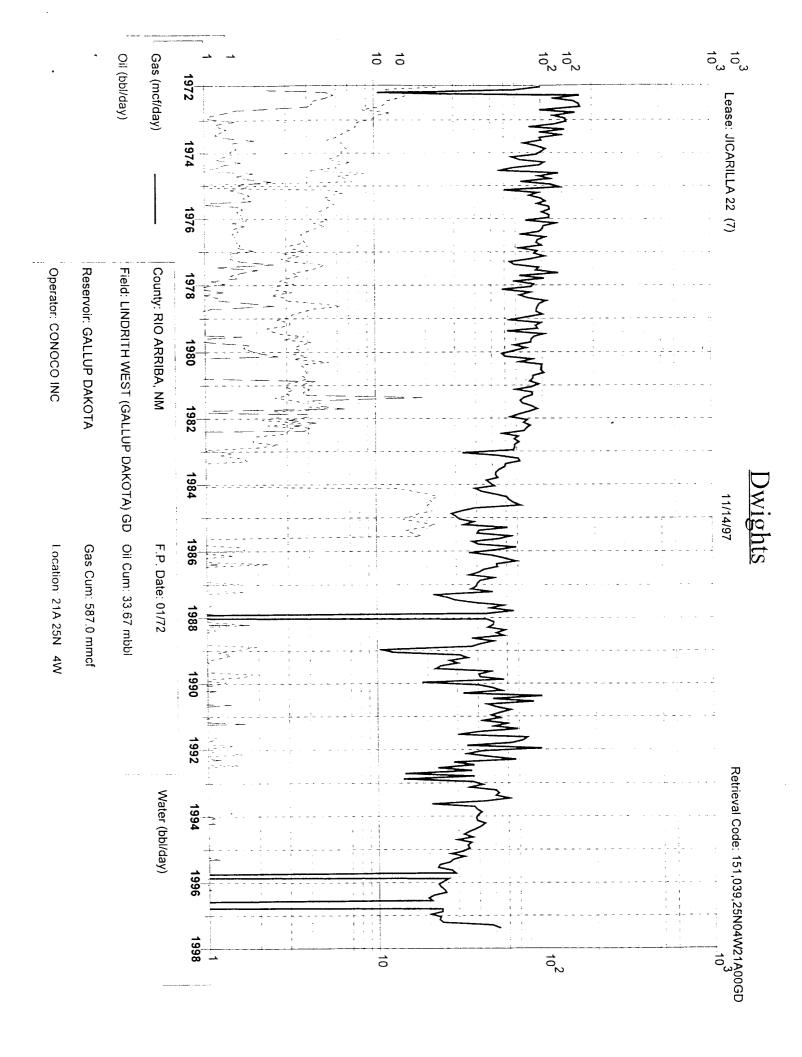
OIL YIELD:

0.0076 BBL/MCF, LAST 3 YRS

AVG. USED: 0.0324 BBL/MCF

PRODUCTION FORECAST FOR SUBTRACTION METHOD COMMINGLE ALLOCATION

YEAR	AVG. MCFD	AVG. BOPD
1998	30	1.0
1997	29	0.9
1998	- 27	0.9
1999	26	0.8
2000	25	0.8
2001	24	0.8
2002	23	0.7
2003	22	0.7
2004	21	0.7
2005	20	0.6
2006	19	0.6
2007	18	0.6
2008	17	0.6
2009	16	0.5
2010	16	0.5
2011	15	0.5
2012	14	0.5
2013	14	0.4
2014	13	0.4
2015	12	0.4
2016	12	0.4
2017	11	0.4
2018	11	0.3
2019	10	0.3
2020	10	0.3
2021	9	0.3
2022	9	0.3
2023	8	0.3
2024	8,	0.3
2025	8	0.2
2026	7	0.2
2027	7	0.2
2028	7	0.2
2029	6	0.2
2030	6	0.2



District † 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 PO Box 2088, Santa Fe. NM 87504-2088

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	2 Pool Code	3 Pool Name	
30-039-20447	72319	Blanco Mesaverde	
4 Property Code	5 Property Na	me	6 Well Number
003203	Jicarilla 22		#7
7 OGRID No.	8 Operator N	9 Elevation	
005073	Conoco Inc., 10 Desta Drive, Ste. 100W,	Midland, TX 79705-4500	7134 GL
	10 Surface Loc	ation	

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Α	21	25N	4W		990	North	990	East	Rio Arriba
			11 Bo	ttom Ho	le Location l	f Different Fro	om Surface		_
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
2 Dedicated Acre	s 13 Join	tor Infil 14	Consolidation	on Code 15	Order 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

16	è ← 990'	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief
		Signature Kay Maddox Printed Name Regulatory Agent Title
		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 Surveyor: Certificate Number

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACERAGE DEDICATION PLAT

COMPT				Lease			· Well No	
CONT	INENTAL OIL (COMPANY		JICAI	RILLA 22		7	
Unit Letter	Section	Township		: Range	County			
A	21	, 2	95 NORTH	4 West	RIO	ARRIBA		
Actual oge La	ocation of Well:				* **** *****			
990	feet from the	NORTH	line and	990	feet from the	EAST	line	
Ground Lovei Elev.	Producing	Formation		Pool	•		Dedicated Averence	
7134.0,							40	Acres
3. If more the by communiti	nan one lease of zation, unitizatio	different own	nership is dec lin <mark>g. e</mark> tc?	licated to the w	ell, have the in	terests of o	all owners been consol	idated
() Yes /) No H	fanswer is "	'yes," type of	consolidation	***************************************		*********************************	
() 162 /								********

CERTIFICATION

i herei	by certify	that the	informat	ion co	ent a	inec
berein is	true and	complete	to the	best	of	M
ksowiedge	and belie	ŧ.				

Name Original Signed By: J. A. UBBEN	His
Position ; Administrative Superv	leor
Company Continental Oil Company	ay 5.
Date December 2, 1971	

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 knowledge and belief.

20 November 1971 \
i are Surveyed
James P. here
Registered Professional Engineer
Registered Professional Engineer and/or Land Surveyor James P. Leese
N. H. Reg. #1463

Certificate No.

SAN JUAN ENGINEERING COMPANY, FARMINGTON, N. M.

Conoco, Inc. Jicarilla 22 #7 Section 21, T-25-N, R-4-W, A Rio Arriba County, New Mexico

Re: Application for Downhole Commingling

Offset Operators:

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

CONDITIONS OF APPROVAL FOR DOWNHOLE COMMINGLING

	Operator	Conoco Inc.	Well Name	<u>Jicarilla</u>	22 #7
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- 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

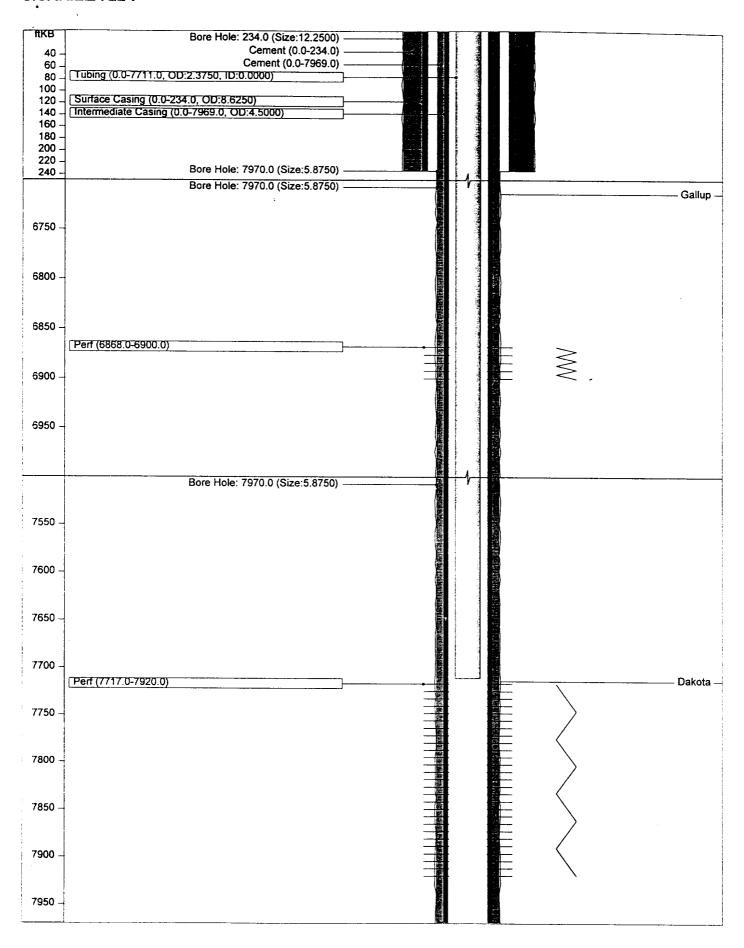
Jicarilla #22-7

Economic Evaluation

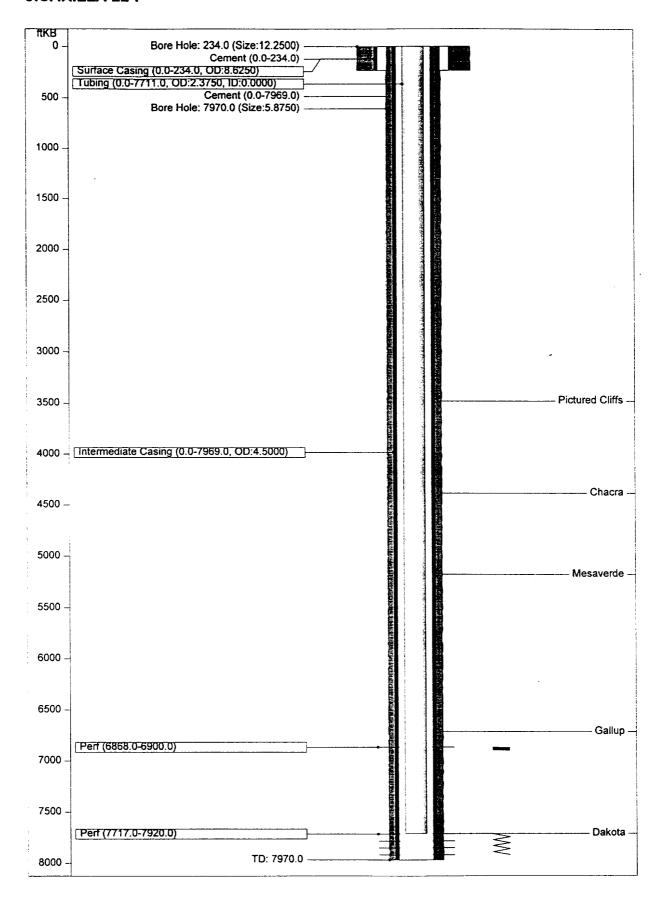
The subject wellbore has 4.5" casing (ID of 3.957"). It is physically impossible to install 2 strings of tubing in the wellbore to produce each zone separately.

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.

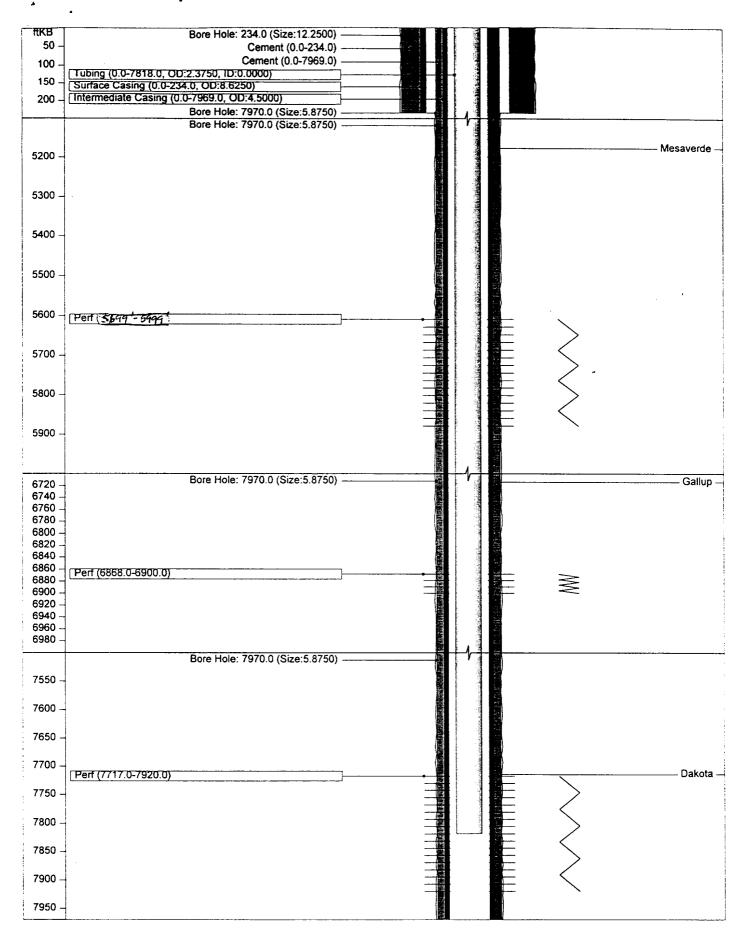
JICARILLA 227



JICARILLA 227



JICARILLA 22 7 - 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).

