DATE IN	27/98	suspense 3/19/98		LOGGED	TYPEDAC			
/		NEW MEXIC	ABOVE THIS LINE FOR DIVISION USE ON		1859			
			- Engineering Bureau -					
	THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS							
Applica	ation Acronyms							
	[PC-F	[DD-Directiona wnhole Commingling] ool Commingling] [Ol [WFX-Waterflood Expa [SWD-Salt Water]	Proration Unit] [NSL-I I Drilling] [SD-Simultar [CTB-Lease Comminglin LS - Off-Lease Storage] ansion] [PMX-Pressure Disposal] [IPI-Injection	neous Dedication) g] [PLC-Pool/Lease ([OLM-Off-Lease Mease Maintenance Expansion Pressure Increase]	n]			
	(EOR-Qu	alified Enhanced Oil Re	covery Certification j [PPR-Positive Production				
[1]	TYPE OF A		eck Those Which Appl	y for [A]				
	[A]	Location - Spacing	Unit - Directional Dril		98			
	Chec	k One Only for [B] ar	nd [C]	CIL CONSERVATION	DIVISION			
	[B]	Commingling - Sto	rage - Measurement B PLC PC		DLM			
	[C]	Injection - Disposa	l - Pressure Increase - I K SWD II		-			
[2]	NOTIFICA	TION REQUIRED '	FO: - Check Those Wl	uich Apply or Doe	s Not Apply			
[]	[A]		ty or Overriding Royal					
	[B]	Offset Operators	s, Leaseholders or Surf	ace Owner				
	[C]	Application is C	one Which Requires Pu	blished Legal Notice				
	[D]		/or Concurrent Approv Management - Commissioner of Pul					
	[E]	General of the ab	ove, Proof of Notificat	ion or Publication is A	Attached, and/or,			
	[F]	Gaivers are Atta	ached					

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[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.

\frown	Note: Statement must be comp	pleted by an individual with supervisory capacity.	
Peggy Bradfield	ratured	Regulatory/Compliance Administrator	
Print or (Type Name	Signature	Title	Date

DISTRICT I

DISTRICT III

P.O. Box 1980, Hobbs, NM 88241-1980 DISTRICT II 811 South First St., Artesia, NM 88210-2835

1000 Rio Brazos Rd, Aztec, NM . 87410.1693

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 New 3-12-96 **APPROVAL PROCESS :** _X_ Administrative ____Hearing **EXISTING WELLBORE**

APPLICATION FOR DOWNHOLF COMMINGLING

Unit Ltr. - Sec - Two - Rae

YES __X_NO

Burlington Resources Oil & Gas Company	Y	PO Box 4289, Farmington, NM 87499		
Operator		Address	·····	
San Juan 27-5 Unit	164M	O 30-27N-05W	Rio Arriba	

Lease

OGRID NO. ____14538___

Well No.

_ Property Code __7454_____ API_NO. __30-039-not assigned__

County Spacing Unit Lease Types: (check 1 or more) _Federal __x__,State __ ____ (and/or) Fee ____X

The following facts are submitted in support of downhole commingling:	Upper to state of the state of	Intermediate	Lower Zone
1. Pool Name and Pool Code	Blanco Mesaverde - 72319		Basin Dakota - 71599
2. Top and Bottom of Pay Section (Perforations)	will be supplied upon completion		will be supplied upon completion
3. Type of production (Oil or Gas)	gas		gas
4. Method of Production (Flowing or Artificial Lift)	flowing		flowing
5. Bottomhole Pressure Oli Zones - Artificial Lift: Estimated Current	(Current) a. 612 psi (see attachment)	а.	a. 1184 psi (see attachment)
Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original	(Original) b. 1292 psi (see attachment)	b.	b. 3214 psi (see attachment)
6. Oll Gravity (API) or Gas BTU Content	BTU 1173		BTU 1089
7. Producing or Shut-In?	shut in		shut in
Production Marginal? (yes or no)	no		yes
* If Shut-In 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	Date: n/a Rates:	Date: Rates:	Date: n/a Rates:
* If Producing, give data and oli/gas/water water of recent test (within 60 days)	Date: n/a Rates:	Date: Rates:	Date: n/a Rates:
8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%)	Oii: Gas: % % %	Oil: Gas: %	Oll: Gas: % % %

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. 9

10. Are all working, overriding, and royalty interests identical in all commingled zones?	Yesx No
If not, have all working, overriding, and royalty interests been notified by certified mail?	Yesx_No Yesx_No _X_YesNo
Have all offset operators been given written notice of the proposed downhole commingling?	_x_YesNo

Nill 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) 11. Will cross-flow occur?

__x_Yes 12. Are all produced fluids from all commingled zones compatible with each other? _ 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). ____Reference Order _ __R-10694__ attached

16. ATTACHMENTS:
* 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 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_	Sean Work	erton	TITLE:	Production Engineer	DATE: 2/23/98	3
					•	

TYPE OR PRINT NAME <u>Sean Woolverton</u>

TELEPHONE NO. (505) 326-9700

Oistrict I PO Box 1980, Hobbs, NM 68241-198	30 Energ	State of Ne W. Minerals & Natur	EW MEXICO al Resources Departm	nent		Form C-102 d February 21, 1994 nstructions on back		
District II PO Drawer OD. Artesia. NM 88211-	0719 OIL		ION_DIVISIC		Appropri Stat	ate District Office e Lease - 4 Copies e Lease - 3 Copies		
District III 1000 Rio Brazos Rd., Aztec, NM 8	7410 Sar	PO Box nta Fe, NM	2088 87504-2088		_			
District IV PO Box 2088, Santa Fe. NM 87504								
WELL LOCATION AND ACREAGE DEDICATION PLAT								
API Number *Pool Code *Pool Name								
<u>30-039</u>	71599, 72	319 Bas Property	in Dakota,	<u>Blanco M</u>	esaver	de 'Well Number		
Property Code 7454	S	SAN JUAN 2				164M		
'OGRID No. 14538	BURLINGTON	*Operator RESOURCES		COMPANY		*Elevation 6387		
			_ocation			······		
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	Bottom Hole L	_ocation If		From Surf				
UL or lot no. Section Township	Range Lot Ion	Feet from the	North/South line	Feet from the	East/West	line County		
¹² Dedicated Acres ¹³ Joint or I	nfill ¹⁴ Consolidation Code	2 ¹⁵ Order No.	<u></u>	<u></u>	<u> </u>			
РК-Е320, МV-ЕВ20								
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¹⁵ 1393.26 138	32.04	2763	3.42			ERTIFICATION		
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2		NMSF-0	79367	Printed		Administrator		
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	-30		r r 1	Date	/ 00	10		
	- 50			I hereby cer	tify that the w	ERTIFICATION mell location shown on this plat		
				under ey	from field note	s of Actual surveys made by me - I that the same is true and		
3			1		(EDW		
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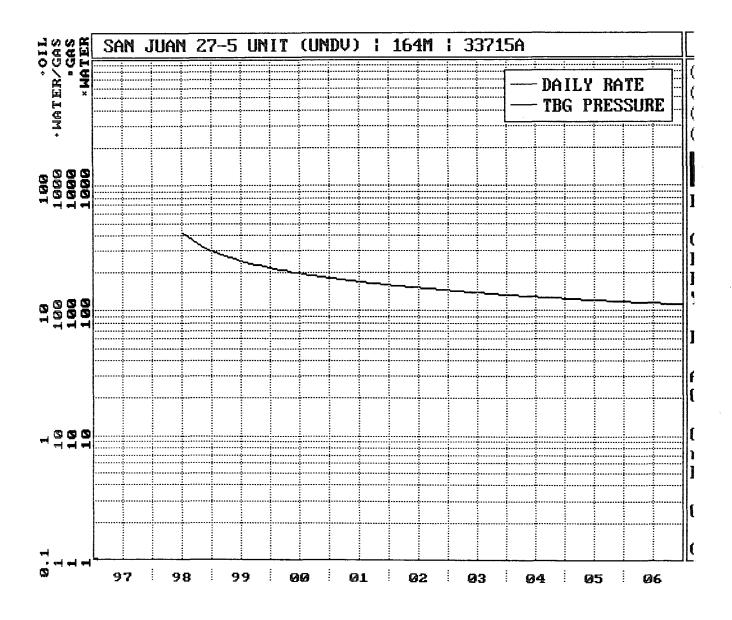
5460<u>.18</u>

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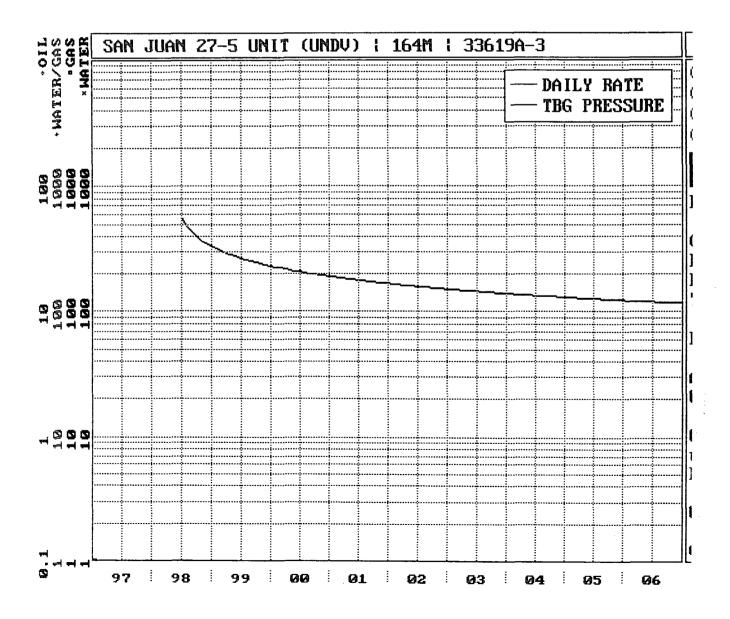
Certificate Number

San Juan 27-5 Unit # 164M Expected Production Curve Blanco Mesaverde



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San Juan 27-5 Unit # 164M Expected Production Curve Basin Dakota



San Juan 27-5 Unit #164M

Bottom Hole Pressures Flowing and Static BHP Cullender and Smith Method Version 1.0 3/13/94

Mesaverde	Dakota
<u>MV-Current</u>	<u>DK-Current</u>
GAS GRAVITY0.688COND. OR MISC. (C/M)C%N20.26%CO20.93%H2S0DIAMETER (IN)2DEPTH (FT)5431SURFACE TEMPERATURE (DEG F)60BOTTOMHOLE TEMPERATURE (DEG F)137FLOWRATE (MCFPD)0SURFACE PRESSURE (PSIA)533BOTTOMHOLE PRESSURE (PSIA)611.9	GAS GRAVITY0.638COND. OR MISC. (C/M)C%N20.22%CO21.29%H2S0DIAMETER (IN)1.5DEPTH (FT)7640SURFACE TEMPERATURE (DEG F)60BOTTOMHOLE TEMPERATURE (DEG F)198FLOWRATE (MCFPD)0SURFACE PRESSURE (PSIA)992BOTTOMHOLE PRESSURE (PSIA)1184.1
MV-Original	DK-Original
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Print Proper Property	e No.: 1 Time: Thu Jan 29 11 ty ID: 3826 Name: SAN JUAN 27-5 Name: K:\ARIES\RR98	UNIT 17 49641A-1 PDP\TEST.DBF
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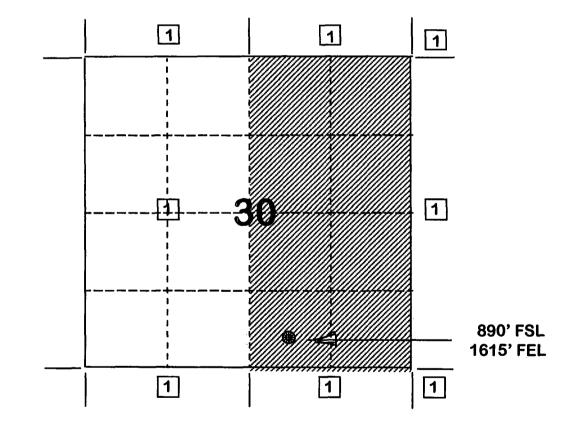
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Dakota Offset

BURLINGTON RESOURCES OIL AND GAS COMPANY

San Juan 27-5 Unit #164M OFFSET OPERATOR \ OWNER PLAT

Mesaverde / Dakota Formations Commingle Well



Township 27 North, Range 5 West

1) Burlington Resources

San Juan 27-5 Unit # 164M Blanco Mesaverde / Basin Dakota 27N-05W-30O

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STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

CASE NO. 11626 ORDER NO. R-10694

APPLICATION OF BURLINGTON RESOURCES OIL & GAS COMPANY FOR THE ESTABLISHMENT OF A DOWNHOLE COMMINGLING "REFERENCE CASE" FOR ITS SAN JUAN 27-5 UNIT PURSUANT TO DIVISION RULE 303.E AND THE ADOPTION OF SPECIAL ADMINISTRATIVE RULES THEREFOR. SAN-JUAN COUNTY, NEW MEXICO.

- RID ARRIBA

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 8:15 a.m. on October 17 and November 7, 1996. at Santa Fe, New Mexico, before Examiners David R. Catanach and Michael E. Stogner, respectively.

NOW, on this 12th day of November. 1996. the Division Director. having considered the testimony, the record and the recommendations of the Examiner. and being fully advised in the premises.

FINDS THAT:

(1) Due public notice having been given as required by law. the Division has jurisdiction of this cause and the subject matter thereof.

(2) The applicant, Burlington Resources Oil & Gas Company (Burlington), pursuant to the provisions of Division Rule 303.E., seeks to establish a downhole commingling "reference case" to provide exceptions for (a) marginal economic criteria.
(b) pressure criteria. (c) allocation formulas and (d) modification of notification rules or a unit-wide basis for downhole commingling of Dakota. Mesaverde. Fruitland Coal and Pictured Cliffs gas production within existing or future drilled wells within the San Juar 27-5 Unit. San Juan County, New Mexico.

(3) Division Rule No. 303.E. amended by Order No. R-10470-A. currentistates: CASE NO. 11626 Order No. R-10694 Page -2-

> "If sufficient data exists on a lease, pool, formation, geographic area, etc., so as to render it unnecessary to repeatedly provide such data on Form C-107-A, an operator may except any of the various criteria required under Paragraph 303.D, of this rule by establishing a "reference case". The Division, upon its own motion, or by application from an operator, may establish "reference cases" either administratively or by hearing. Upon Division approval of such "reference cases" for specific criteria, subsequent applications to downhole commingie (Form C-107-A) will be required only to cite the Division order number which established such exceptions and shall not be required to submit data for those criteria."

(4) The applicant is the current operator of the San Juan 27-5 Unit which encompasses some 23.043 acres in Township 27 North. Range 5 West. NMPM. San Juan County, New Mexico.

(5) Within the San Juan 27-5 Unit, the applicant currently operates one hundred and one (101) Basin-Dakota Gas Pool wells, one hundred and five (105) Blanco-Mesaverde Gas Pool wells, eighty-seven (87) South Blanco-Pictured Cliffs and Tapacito-Pictured Cliffs Gas Pool wells, and four (4) Basin-Fruitland Coal Gas Pool wells.

(6) According to its evidence and testimony, Burlington seeks to:

- a) establish a "reference case" for marginal economic criteria in the Dakota and Pictured Cliffs formations whereby these formations and/or pools may be identified as "marginal" on Form C-107-A's subsequently filed for wells within the San Juan 27-5 Unit. The applicant further proposes that the data provided in the immediate case serve as supplemental data or confirmation that these formations and/or pools should be classified as "marginal":
- b) establish a "reference case" for pressure criteria in the Dakota and Pictured Cliffs formations whereby the Division may utilize data provided in the immediate case to verify the pressure data provided on Form C-107-A's subsequently filed for wells within the San Juan 27-5 Unit;

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CASE NO. 11626 Order No. R-10694 Page -3-

> c) establish a "reference case" whereby the Division utilizes the data presented in the immediate case to endorse or approve certain methods of allocating production whereby the applicant need not submit additional data or justification when proposing a certain method of allocating production on Form C-107-A's subsequently filed for wells within the San Juan 27-5 Unit: and.

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 establish a "reference case" or an administrative procedure for authorizing the downhole commingling of existing or future drilled wells within the San Juan 27-5 Unit without additional notice to each affected interest owner as required by Division Rule No. 303.D.

(7) In support of its request to except marginal economic criteria, the applicant presented geologic and engineering evidence and testimony which indicates that within the San Juan 27-5 Unit:

- a) the structure and thickness of the Dakota and Pictured Cliffs formations are very consistent:
- b) the average recoverable Dakota and Pictured Cliffs gas reserves underlying an undeveloped drill block are approximately 583 MMCFG and 426 MMCFG, respectively;
- c) the average initial producing rate for a newly drilled or recompleted Dakota and Pictured Cliffs gas well is approximately 393 MCFGD and 63 MCFGD, respectively; and.
- d) the estimated ultimate gas recoveries and initial producing rates from the Dakota and Pictured Cliffs formations are insufficient to justify drilling stand alone wells and/or dually completed wells to recover such gas reserves.

(8) The evidence and testimony presented by the applicant indicates that the Dakota and Pictured Cliffs formations within the San Juan 27-5 Unit should be properly classified as "marginal".

(9) In support of its request to except pressure criteria within the Dakota and Pictured Cliffs formations within the San Juan 27-5 Unit, the applicant presented engineering evidence and testimony which indicates that:

- a) the average shut-in bottomhole pressure within the Dakota and Pictured Cliffs formations at the time of initial development were approximately 3.141 psi and 1.118 psi, respectively; and
- b) the average current shut-in bottomhole pressure within the Dakota and Pictured Cliffs formations are approximately 1.032 psi and 441 psi, respectively.

(10) There is sufficient pressure data available within the San Juan 27-5 Unit so as to except pressure criteria as proposed by the applicant.

(11) The applicant testified that various allocation methods will be unlized for downhole commingled wells within the San Juan 27-5 Unit depending on the circumstances. Some of the methods and circumstances are described as follows:

- a) the subtraction method will likely be utilized in those instances involving the Basin-Fruitland Coal Gas Pool and in those instances where a zone with a well established decline rate is commingled with a newly completed zone:
- b) a fixed allocation formula will be utilized in those instances where production history for both zones is available, or in those instances where newly completed zones are tested and stabilized flow rates obtained.

(12) The allocation methods proposed by the applicant are routinely utilized by industry and approved by the Division and therefore the proposal to except allocatio: formulas should be approved.

(13) In support of its request to establish a "reference case" or administrativ procedure for providing notice within the San Juan 27-5 Unit the applicant presente evidence and testimony which indicates that:

- a) the interest ownership between two zones within a given weilbore in the San Juan 27-5 Unit is generally not common:
- b) pursuant to Division Rule No. 303.D., applicant is currently required to notify all interest owners within the San Juan 27-5 Unit every time a Form C-107-A is submitted to the Division. There is a considerable number of such interest owners within the unit:

CASE NO. 11626 Order No. R-10694 Page -5-

- c) providing notice to each interest owner within the San Juan 27-5 Unit of subsequent downhole communglings is unnecessary and is an excessive burden on the applicant:
- d) the downhole commingling of wells within the San Juan 27-5 Unit Area will benefit working, royalty, and overriding royalty interest owners. In addition, the downhole commingling of wells within the San Juan 27-5 Unit should not violate the correlative rights of any interest owner:
- e) no interest owner appeared at the hearing in opposition to the establishment of a "reference case" or administrative procedure for notice.

(14) An administrative procedure should be established within the San Juan 27-5 Unit for obtaining approval for subsequent downhole commingled wells without notice to Unit interest owners, provided however that, all other provisions contained within Division Rule No. 303.C. are complied with.

(15) Approval of the proposed "reference cases" for marginal economic criteriz pressure criteria. allocation formulas and notice will lessen the burden on the applicant insofar as providing the data required pursuant to Division Rule No. 303.D. and Form C 107-A. will provide the applicant a streamlined method for obtaining downhol commingling approvals within the San Juan 27-5 Unit, and will not violate correlative rights.

IT IS THEREFORE ORDERED THAT:

(1) The application of Burlington Resources Oil & Gas Company to establi a "reference case" for (a) marginal economic criteria. (b) pressure criteria. (c) allocation formulas and (d) modification of notification rules on a unit-wide basis for downho commingling of Dakota. Mesaverde. Fruitland Coal and Pictured Cliffs gas production within existing or future drilled wells within the San Juan 27-5 Unit. San Juan Coun-New Mexico, is hereby approved. CASE NO. 11626 Order No. R-10694 Page -6-

(2) Upon filing of Division Form No. C-107-A's for weils subsequently downhole communited within the San Juan 27-5 Unit Area, the applicant shall not be required to submit supporting data to justify the classification of the Pictured Cliffs and Dakota formations as "marginal", supporting data to verify the Pictured Cliffs and Dakota pressure information provided, and support or justification for utilizing a given method or formula for allocation of production, provided however, in the event any of the data described above appearing on Form C-107-A appears to be beyond the data range provided in this case, the Division may require the submittal of additional supporting data.

(3) In order to obtain Division authorization to downhole commingle wells within the San Juan 27-5 Unit, the applicant shall file a Form C-107-A with the Santa Fe and Aztec Offices of the Division. Such application shall contain all the information required under Rule No. 303.C. of the Division Rules and Regulations, provided however that the applicant shall not be required to provide notice to all interest owners within the San Juan 27-5 Unit of such proposed commingling.

(4) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe. New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION Director

SEAL