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	(PC-Po	[NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location] [DD-Directional Drilling] [SD-Simultaneous Dedication] nhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] sol Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] diffied Enhanced Oil Recovery Certification] [PPR-Positive Production Response]					
[1] T	VPF OF A	PPLICATION - Check Those Which Apply for [A]					
įtj t	[A]	Location - Spacing Unit - Directional Drilling NSL NSP DD DSD 0CT 2 1997					
	Check	One Only for [B] and [C]					
	[B]	Commingling - Storage - Measurement DHC DCTB PLC DPC DOLS DOLM					
	[C]	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery WFX PMX SWD IPI EOR PPR					
[2] N	OTIFICAT [A]	TION REQUIRED TO: - Check Those Which Apply, or ☐ Does Not Apply ☐ 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					
[3] IN	FORMAT	TION / DATA SUBMITTED IS COMPLETE - Statement of Understanding					
I hereby c	ertify that I	or personnel under my supervision, have read and complied with all applicable Ru					

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. Peggy Bradfield Regulatory/Compliance Administrator 10-20-97 Print or Type Name Title

BURLINGTON RESOURCES

SAN JUAN DIVISION

October 3, 1997

Mr. William LeMay New Mexico Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505

Re:

San Juan 27-5 Unit #70M

900'FSL, 1605'FEL Section 8, T-27-N, R-05-W, Rio Arriba County, NM

API #30-039-25725

Dear Mr. LeMay:

This is a request for administrative approval for downhole commingling the Blanco Mesa Verde and Basin Dakota pools in the subject well. This is a new drill Mesa Verde/Dakota well for the 1998 Program.

To comply with the New Mexico Oil Conservation Division rules, Burlington Resources Oil & Gas Company is submitting the following for your approval of this commingling:

- 1. Form C107A Application for Downhole Commingling;
- C-102 plat for each zone showing its spacing unit and acreage dedication;
- 3. Anticipated production curve for the Mesa Verde and Dakota for at least year;
- 4. Notification list of offset operators Burlington is the offset operator;
- 5. Shut in wellhead pressure and calculated down hole pressure of surrounding wells;
- 6. Nine-section plats for the Mesa Verde and Dakota.

Notification of Mesa Verde and Dakota interest owners is covered under Order R-10694 dated November 12, 1996.

We will consult with the Supervisor of the Aztec District Office of the New Mexico Oil Conservation Division to establish an allocation formula.

Please let me know if you require additional data.

rakhuld

Sincerely,

Peggy Bradfield

Regulatory/Compliance Administrator

Xc:

Bureau of Land Management – Farmington

NMOCD - Aztec

DISTRICT I

P.O. Box 1980, Hobbs, NM 88241-1980

<u>DISTRICT II</u>

811 South First St., Artesia, NM 88210-2835

DISTRICT III 1000 Rio Brazos Rd, Aztec, NM 87410-1693 State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

APPLICATION FOR DOWNHOLE COMMINGLING

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

APPROVAL PROCESS:

X Administrative ___Hearing

EXISTING WELLBORE

__YES _xNO

Burlington Resources Oil & (3as Company	PO Box 4289, Farmington, NM 87499			
Operator SAN JUAN 27-5 UNIT	Addre 70M	o 08-27N-5W	Rio Arriba		
Lease		tr Sec - Twp - Rge	County		
OGRID NO14538 Property (20do 7465 API NO 30		ng Unit Lease Types: (check 1 or more) . State, (and/or) Fee		
		Intermediate			
The following facts are submitted in support of downhols commingling:	Upper Zone	Zone	Zone		
1. Pool Name and	Blanco Mesaverde - 72319	1445 logs (447 1 1) consequence	Basin Dakota - 71599		
Pool Code					
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		
Method of Production (Flowing or Artificial Lift)	flowing		flowing		
5. Bottomhole Pressure	(Current) a. 733 psi (see attachment)	a.	a. 1100 psi (see attachment)		
Oil Zones - Artificial Lift: Estimated Current					
Gas & Oil - Flowing: Measured Current All Gas Zones:	(Original) b. 1271 psi (see attachment)	b.	b. 3187 psi (see attachment)		
Estimated or Measured Original 6. Oil Gravity (°API) or	BTU 1201		BTU 1063		
Gas BTU Content					
7. Producing or Shut-In?	shut-in		shut-in		
Production Marginal? (yes or no)	no		yes		
* If Shut-In and oil/gas/water	Date: n/a	Date:	Date: n/a		
rates of last production Note: For new zones with no production history.	Rates:	Rates:	Rates:		
Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data					
* If Producing, give data and oil/gas/water water of recent test (within 60 days)	Date: n/a Rates:	Oate: Rates:	Date: n/a Rates:		
(within 60 days)					
8. Fixed Percentage Allocation	Oil: Gas: %	Oil: Gas: %	Oil: Gas:		
Formula -% for each zone (total of %'s to equal 100%)	will be supplied upon completion		will be supplied upon completion		
10. Are all working, overriding, and If not, have all working, overrid Have all offset operators been	d royalty interests identical in al ding, and royalty interests been given written notice of the prop	l commingled zones? notified by certified mail? osed downhole commingling			
production be recovered, and	will the allocation formula be re	patible, will the formations r liablex YesNo(ot be damaged, will any cross-flowe If No, attach explanation)		
12. Are all produced fluids from all	· ·		es No		
13. Will the value of production be		· · · · · · · · · · · · · · · · · · ·	nch explanation)		
			of Public Lands or the United State No		
15. NMOCD Reference Cases for R 16. ATTACHMENTS:	ule 303(D) Exceptions: ORDER	NO(S)R-10694	<u> </u>		
* C-102 for each zone * Production curve for * For zones with no pr * Data to support allor * Notification list of al	to be commingled showing its s reach zone for at least one year oduction history, estimated pro- cation method or formula. I offset operators. orking, overriding, and royalty in ments, data, or documents requ	pacing unit and acreage dec . (If not available, attach ex duction rates and supporting nterests for uncommon inter ired to support commingling	lication. planation.) g data. est cases.		
I hereby certify that the inform	nation above is true and co	mplete to the best of my	knowledge and belief.		
SIGNATURE Sean Water	estonTITLE_Pro	duction Engineer	DATE <u>10-17-97</u>		
TYPE OR PRINT NAME <u>Sea</u>			•		

District 4 PO Box 1980, Hobbs, NM \$8241-1980 District il PO Drawer DD, Artesia, NM 88211-0719 District (II 1000 Rio Brazos Rd., Aztec. NM 87410

District IV

State of New Mexico Energy, Minerain & Natural Resources Department

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

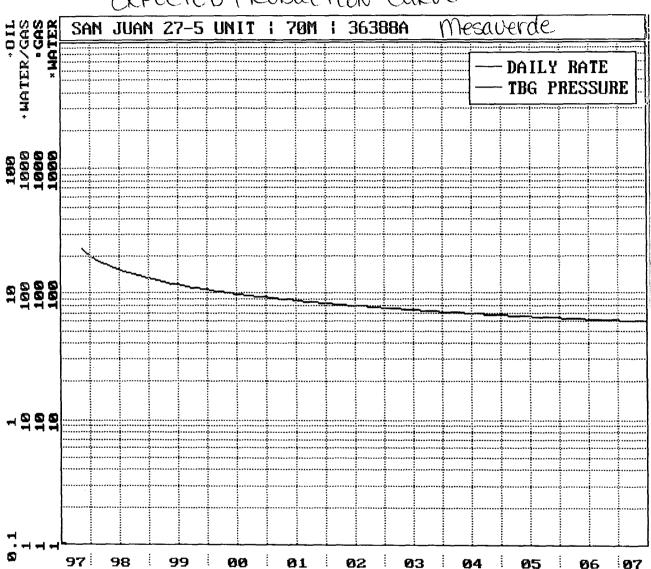
Form C-107 Revised February 21, 1994

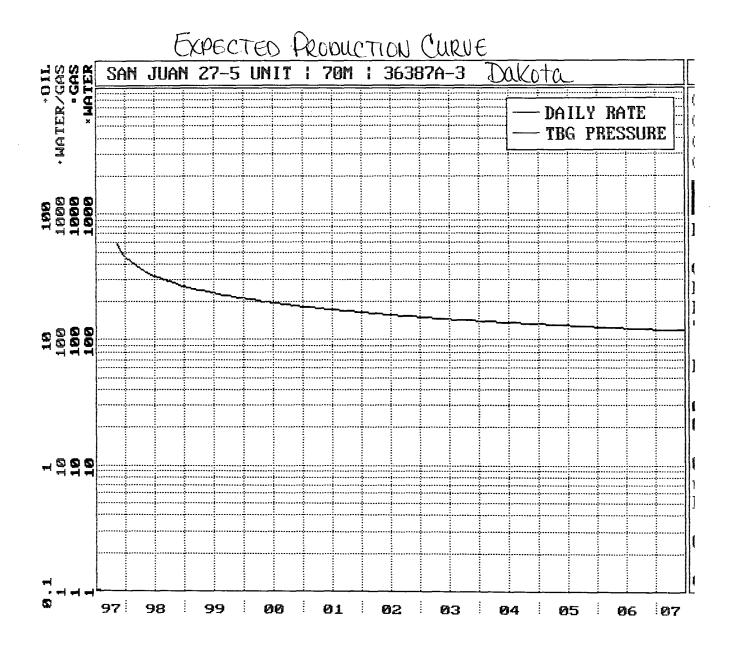
instructions on back Submit to Appropriate District Office

State Lease - 4 Copie: Fee Lease - 3 Copie:

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EXPECTED PRODUCTION CURVE



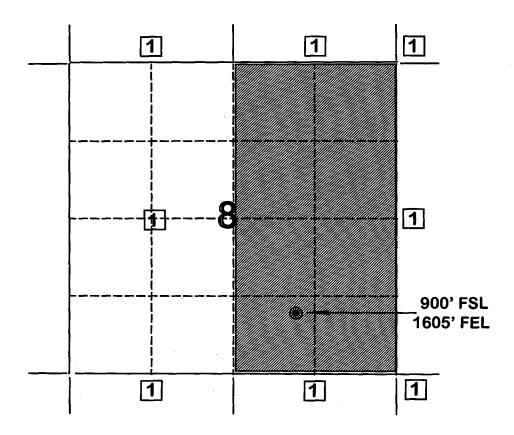


BURLINGTON RESOURCES OIL AND GAS COMPANY

San Juan 27-5 Unit #70M OFFSET OPERATOR \ OWNER PLAT

Mesaverde/Dakota Formations Commingle Well

Township 27 North, Range 5 West



1) Burlington Resources Oil and Gas Company

San Juan 27-5 Unit #70M

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

Mesaverde	Dakota			
MV-Current	<u>DK-Current</u>			
GAS GRAVITY 0.704 COND. OR MISC. (C/M) C %N2 0.25 %CO2 0.81 %H2S 0 DIAMETER (IN) 2.375 DEPTH (FT) 5681 SURFACE TEMPERATURE (DEG F) 60 BOTTOMHOLE TEMPERATURE (DEG F) 137 FLOWRATE (MCFPD) 0 SURFACE PRESSURE (PSIA) 630 BOTTOMHOLE PRESSURE (PSIA) 732.8	GAS GRAVITY COND. OR MISC. (C/M) %N2 %CO2 %CO2 1.44 %H2S DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) FLOWRATE (MCFPD) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA) 1100.4			
MV-Original	DK-Original			
GAS GRAVITY COND. OR MISC. (C/M) %N2 %CO2 %H2S DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA) 0.704 C 2.375 60 60 60 60 60 137 FLOWRATE (MCFPD) 0 SURFACE PRESSURE (PSIA) 1079	GAS GRAVITY COND. OR MISC. (C/M) %N2 %CO2 %CO2 DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) FLOWRATE (MCFPD) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA) 3187.0			

Page No.: 2

Print Time: Mon Sep 22 11:40:29 1997
Property ID: 3879
Property Name: SAN JUAN 27-5 UNIT | 63 | 53396A-1
Table Name: K:\ARIES\RR98PDP\TEST.DBF

SJ 27-5 Unut #70M

Mesaverde Offset

DATE	CUM_GAS	••••	
11/07/61	0	1079.0	-original
11/13/61	0	1078.0	
06/04/62	15000	914.0	
04/14/63	54000	835.0	
04/29/64	108000	753.0	
05/10/65	153000	739.0	
04/19/66	195000	703.0	
05/16/67	235000	691.0	
05/02/68	265000	681.0	
10/07/70	352393	560.0	
07/22/71	377984	539.0	
06/06/72	413765	503.0	
05/02/74	478827	442.0	
09/08/89	757788	537.0	
03/18/91	777549	618.0	ا ا
07/08/91	780117	630.0	-current

Page No.: 2

Print Time: Wed Oct 08 09:24:47 1997

Property ID: 1674
Property Name: SAN JUAN 27-5 UNIT | 112 | 52305A-1

Table Name: K:\ARIES\RR98PDP\TEST.DBF

San Juan 27-5 Unit #7019 Dakota Offset

#	•	M SIWHP	CUM_GAS Mcf	DATE	
Da	-original	2650.0 1814.0 1217.0 1022.0 1037.0 1104.0 855.0 655.0 643.0 653.0 778.0 769.0 930.0 732.0 925.0	0 29000 167818 252647 336688 415354 565354 698356 838099 959754 1069769 1146803 1260890 1359899 1418256	08/20/69 11/29/69 10/23/70 07/22/71 06/06/72 08/29/73 09/04/75 06/08/77 06/06/79 06/03/81 09/19/83 05/20/85 06/20/88 04/24/90 05/28/92	

San Juan 27-5 Unit #70M Blanco Mesaverde / Basin Dakota 27N-05W-080

					
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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.

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 on 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 Juan 27-5 Unit, San Juan County, New Mexico.
- (3) Division Rule No. 303.E., amended by Order No. R-10470-A, currently states:

"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 commingle (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:
 - 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;

- 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,
- d) 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 utilized 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 allocation formulas should be approved.
- (13) In support of its request to establish a "reference case" or administrative procedure for providing notice within the San Juan 27-5 Unit the applicant presented evidence and testimony which indicates that:
 - a) the interest ownership between two zones within a given wellbore 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:

- c) providing notice to each interest owner within the San Juan 27-5
 Unit of subsequent downhole comminglings 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 criteria, 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 downhole 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 establish 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 downhole 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 County, New Mexico, is hereby approved.

- (2) Upon filing of Division Form No. C-107-A's for wells subsequently downhole commingled 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

WILLIAM J/ LeMAY

Director