ONTEN 12/17/99 EUGENEE 1/6/00 ENGINEER DC 1000ED KN THE DHC
ABOVE THIS LINE FOR DIVISION USE ONLY
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 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 APPLICATION - Check Those Which Apply for [A] [A] Location - Spacing Unit - Directional Drilling NSL NSP DD SD Check One Only for [B] and [C] [B] Commingling - Storage - Measurement ✓ DHC CTB PLC PC OLS OLM
[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery WFX PMX SWD IPI EOR PPR
 [2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply [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] X 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] 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.

Peggy Cole

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Print or Type Name

Regulatory/Compliance Administrator

DISTRICT I 1625 N. French Dr., Hobbs, NM 88240 DISTRICT II t., Artesia, NM 88210 DISTRICT III 4 Rd. Aztec, NM 87410 DISTRICT IV co. Santa Fe. NM 87505

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Operator

OGRID NO._

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

Form C-107-A Revised August 1999

APPROVAL PROCESS: _ Administrative ____Hearing

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

APPLICATION FOR DOWNHOLE COMMINGLING

EXISTING WELLBORE

___ YES ___X_ NO

BURLINGTON RESOURCES OIL & GAS COMPANY

PO BOX 4289, FARMINGTON, NM 87499

SAN JUAN 27-5 UNIT	82M
Lease	Well No.

E 06-27N-05W Unit Ltr. - Sec - Twp - Rge

Address

RIO ARRIBA County

14538	Property Code	7454	API N

_ API NO.__30-039-XXXXX_

Spacing Unit Lease Types: (check 1 or more) Federal ____X___, State _ , (and/or) Fee

The following facts are submitted in support of downhole commingling: 1. Pool Name and Pool Code	Upper Zone BLANCO MESAVERDE – 72319	Intermediate Zone	Lower Zone 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 Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing:	a. ^(Current) 560 psi (see attachment)		a. ^(Current) 762 psi (see attachment)
Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated Or Measured Original	b. ^(Oriiginal) 913 psi (see attachment)		b. ^(Oriiginal) 2101 psi (see attachment)
6. Oil Gravity (EAPI) or Gas BTU Content	BTU 1202		BTU 1122
7. Producing or Shut-In?	SHUT-IN		SHUT-IN
	NO		YES
Production Marginal? (yes or no) * If Shut-In, give date and oil/gas/ water rates of last production	Date: N/A Rates:	Date: N/A Rates:	Date: N/A Rates:
Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data * If Producing, give date andoil/gas/ water rates of recent test (within 60 days)	Date: N/A Rates:	Date: N/A Rates:	Date: N/A Rates:
 Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%) 	Oil: Gas: % WILL BE SUPPLIED UPON COMPLETION	Oil: Gas: % WILL BE SUPPLIED UPON COMPLETION	Oil: Gas: % WILL BE SUPPLIED UPON COMPLETION

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? If not, have all working, overriding, and royalty interests been notified by certified mail? Yes X No (es X No ___Yes

No If yes, are fluids compatible, will the formations not be damaged, will any cross-11. Will cross-flow occur? X_Yes 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 other? _X_Yes _ No

13. Will the value of production be decreased by commingling? (If Yes, attach explanation) _Yes __X No

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). R-10694

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 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	dean g.	lorrigan	TITLE	PRODUCTION ENGINEER	DATE:
)	7			

TYPE OR PRINT NAME	SEAN E.	CORRIGAN
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TELEPHONE NO. 505-326-9700

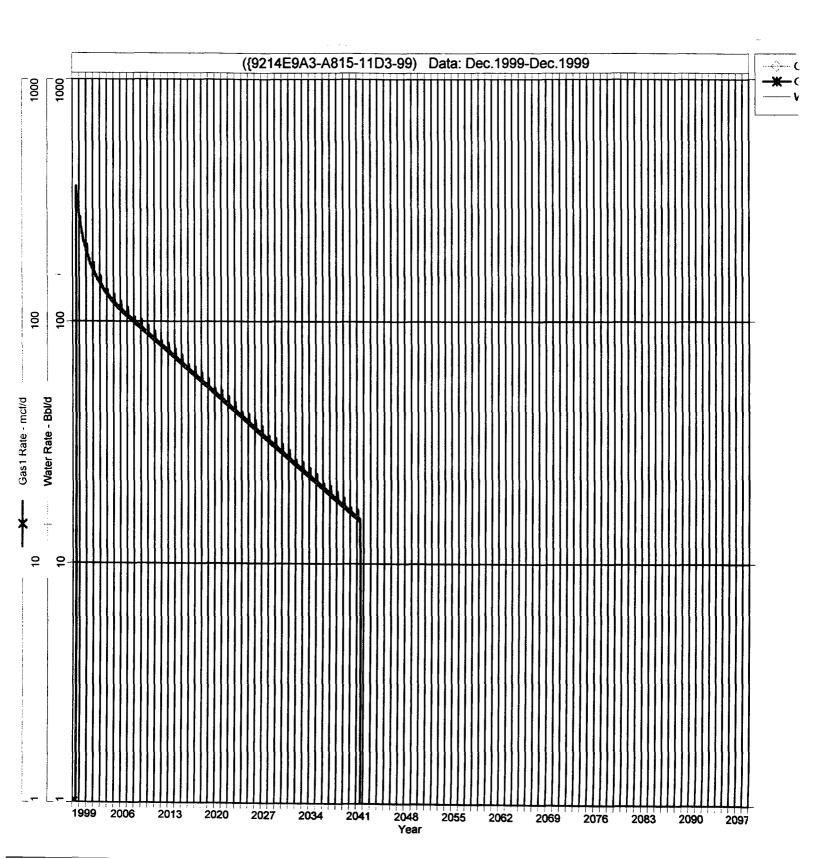
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³⁰⁻⁰³⁹⁻		1	*Pool Code .9/7159	9	Blanco Mesa	Pool Name	-	
⁴ Property Code 7454				³ Propert	y Name			* Well Number 82M
TOCRED No.		В	URLINGTON	•Operato	r Name S OIL & GAS CO	MPANY		Elevation 6508
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San Juan 27-5 Unit #82M Expected Production Mesaverde Formation

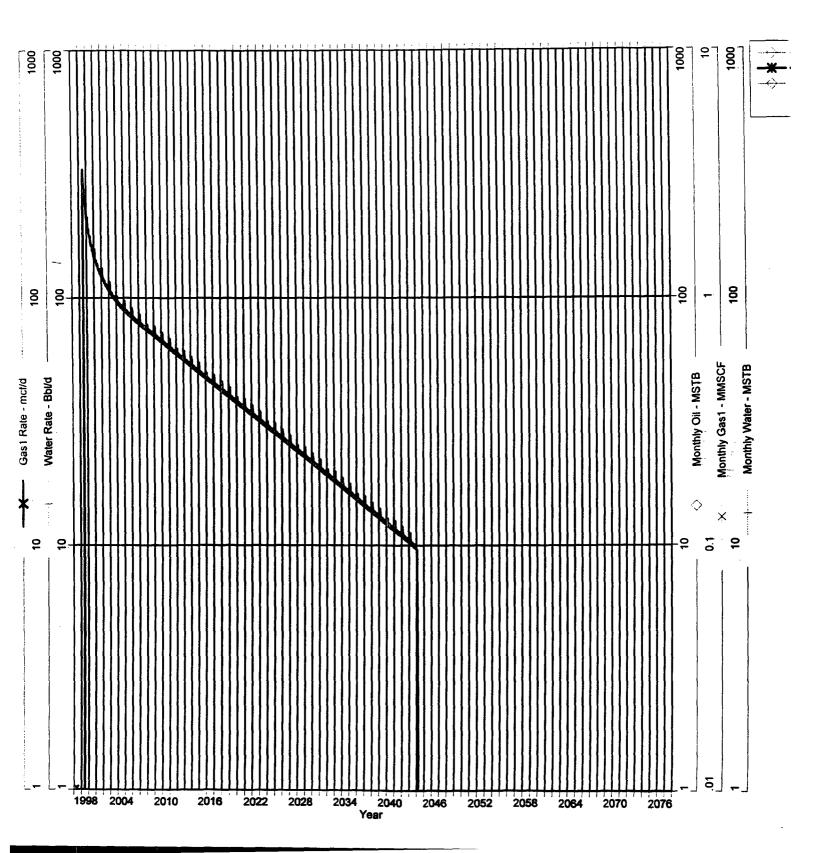
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San Juan 27-5 Unit #82M Expected Production Dakota Formation

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San Juan 27-5 Unit #82M 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 GRAVITY0.694COND. OR MISC. (C/M)C%N20.19%CO21.05%H2S0DIAMETER (IN)1.5DEPTH (FT)5895SURFACE TEMPERATURE (DEG F)60BOTTOMHOLE TEMPERATURE (DEG F)0SURFACE PRESSURE (PSIA)482BOTTOMHOLE PRESSURE (PSIA)560.0	GAS GRAVITY0.647COND. OR MISC. (C/M)C%N20.17%CO21.34%H2S0DIAMETER (IN)2.375DEPTH (FT)7721SURFACE TEMPERATURE (DEG F)60BOTTOMHOLE TEMPERATURE (DEG F)198FLOWRATE (MCFPD)0SURFACE PRESSURE (PSIA)640BOTTOMHOLE PRESSURE (PSIA)761.7
<u>MV-Original</u>	<u>DK-Original</u>
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DATE	CUM_GAS Mcf	M_SIWHP Psi	
08/13/81	0	779.0	
02/23/82 06/04/82	39449 77090	$530.0 \\ 475.0$	
09/19/83 05/03/84	167992 199868	447.0 431.0	
10/20/86 06/27/89	311845 429118	446.0 509.0	
03/18/91 09/17/91	469329 484093	502.0 514.0	
05/31/93	545837	482.0	

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San Juan 27-5 Unit #82M

Mesaverde Offset

Page No.: 1 Print Time: Wed Dec 01 13:19:13 1999 Property ID: 1476 Property Name: SAN JUAN 27-5 UNIT | 59M | 53392A Table Name: R:\RESERVES\GDPNOS\TEST.DBF

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06/23/93

San Juan 27-5 Unit #82M

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San Juan 27-5 Unit #82M Mesaverde / Dakota 27N – 5W – 06

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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.

-RIO 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 on a unit-wide basis for downhole commingling of Dakora. 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:

CASE NO. 11626 Order No. R-10694 Page -2-

> "If sufficient data exists on a lease, pool, formation, geographic area, erg., 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-Messverde 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:

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

- c) establish a "reference case" whereby the Division unitizes 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 filled for wells within the San Juan 27-5 Unit: and.
- d) establish a "reference case" or an administrative procedure for authorizing the downhole comminging of existing or future drilled wells within the San Juan 27-5 Unit without additional nonce 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 Picturei 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: CASE NO. 11626 Order No. R-10694 Page ---

- a) the average shut-in bonomiole pressure within the Dakota and Pictured Cliffs formations at the tune of initial development were approximately 3.141 psi and 1.118 psi, respectively; and
- b) the average current shut-in bottomhole pressure within the Dakora 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 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 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 submined to the Division. There is a considerable number of such interest owners within the unit:

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

- providing notice to each interest owner within the San Juan 27-5 Unit of subsequent downnoie comminglings is unnecessary and is an excessive burden on the applicant;
- d) the downhole comminging of wells within the San Juan 27-5 Unit Area will benefit working, royaity, and overriding royaity interest owners. In addition, the downhole comminging 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 comained 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 comminging 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 downhold commingling of Dakota. Mesavercie. Fruitland Coal and Pictured Cliffs gas production within existing or future drilled wells within the San Juan 27-5 Unit. San Juan Country 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 communicated within the San Juan 27-5 Unit Area, the applicant shall not be required to submit supporting data to justify the classification of the Pictures Cliffs and Dakota formations as "marginal", supporting data to verify the Pictures 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 commungle wells within the San Juan 27-5 Unit, the applicant shall file a Form C-107-A with the Santa Fe and Azter 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 MEDICO OIL CONSERVATION DIVISION Director