DATE IN	2	9	19	9	SUSPENSE	3	5	10	70	,	ENGINEER	DC	LOGGED BY	KV	TYPE	
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -2040 South Pacheco, Santa Fe, NM 87505



2216

	A	DMINISTRATIVE APPLICATION COVERSHEET
THIS	S COVERSHEET IS M	IANDATORY FOR ALL ADMINISTRATIVE APPLICATION FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE
Applic	[DHC-Downh [PC-Pool [M	
[1]	[A]	PLICATION - Check Those Which Apply for [A] Location - Spacing Unit - Directional Drilling E E E NSL NSP DD SD
	Check [B]	One Only for [B] or [C] Commingling - Storage - Measurement DHC CTB PLC PC COLS COLM
	[C]	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery ☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR
[2]	NOTIFICAT	ION 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]	Notification and/or Concurrent Approval by BLM or SLO U.S. Bureaulof 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]	INFORMAT	ION / DATA SUBMITTED IS COMPLETE - Certification
I here	by certify that I	, or personnel under my supervision, have read and complied with all applicable Rules
•		

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. <u>I understand that any omission of data</u> (including API numbers, pool codes, etc.), pertinent information and any required notification is cause to have the application package returned with no action taken.

injormation and an	y required notification <u>is cause to</u>	have the application package i	<u>returned with no action take</u>
Note	e: Statement must be completed by an inc	dividual with managerial and/or supe	rvisory capacity.
		•	
Print or Type Name	Signature Skaa		
	; Signature	Title	Date

DISTRICT I

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

DISTRICT II

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

SIGNATURE: familio Un. Cols

TYPE OR PRINT NAME: Kenneth Collins

DISTRICT III 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

APPLICATION FOR DOWNHOLE COMMINGLING

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

APPROVAL PROCESS:

X_Administrative ___Hearing

EXISTING WELLBORE __YES __x_NO

PO Box 4289, Farmington, NM 87499 **Burlington Resources Oil & Gas Company** J 11-32N-07W 34M Allison Unit San Juan Well No Unit Ltr. - Sec - Twp - Rge County Spacing Unit Lease Types: (check 1 or more) , State_ Property Code 6784 API NO. __30-XXX_ Federal __x_ _, (and/or) Fee _x OGRID NO. 14538 Intermediate Zone Lower Zone The following facts are submitted in support of downhole commingling: Upper Zone Basin Dakota - 71599 Pool Name and Pool Code Blanco Mesaverde - 72319 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) 4. Method of Production (Flowing or Artificial Lift) flowing flowing (Current) . 668 psi (see attachment) 5. Bottomhole Pressure a. 1223 psi (see attachment) Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current (Original) b. 1333 psi (see attachment) b. 2917 psi (see attachment) All Gas Zones: Estimated or Measured Original BTU 985 BTU 952 6. Oil Gravity (API) or 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 rates of last production Date: n/a Date: Date: n/a 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 Date: Date: n/a Rates: Rates: Rates: 8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%) Gas: Gas: % will be supplied upon completion 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. 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? Have all offset operators been given written notice of the proposed downhole commingling? Yes _x _ X _ Yes _ X _ X _ X _ Yes _ X _ X _ X _ Yes _ X _ X _ Yes _ X _ X _ Yes _ X _ X _ X _ Yes _ X _ X _ X _ Yes _ Will 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? 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? ____ 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-9918___ 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.

TITLE: Production Engineer

TELEPHONE NO.:

DATE: 1-18-99

(505)326-9700

District I PO 80x 1980, Hobbs, NM 88241-1980

District II PO Drawer DD, Artesia, NM 88211-0719

District III 1000 Rio Brazos Rd., Aztec, NM 87410

District IV PO Box 2088, Santa Fe, NM 87504-2088

'API Number

State of New Mexico Energy, Minerals & Natural Resources Department

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

Pool Code

Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

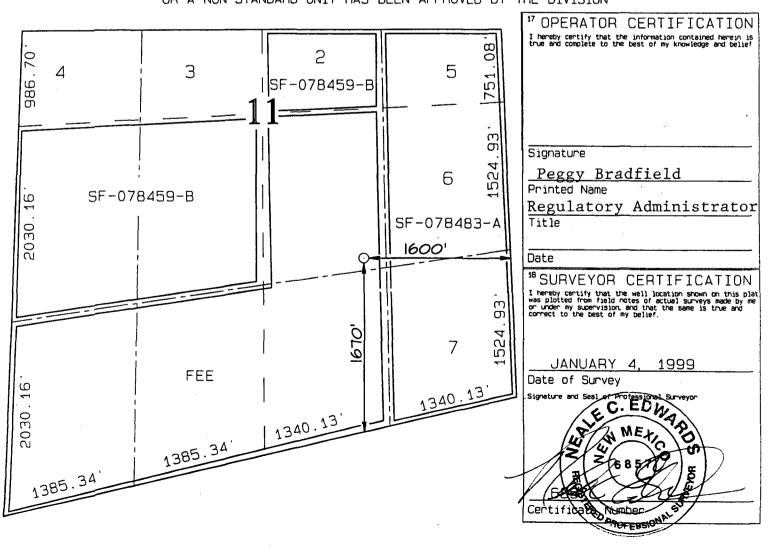
___ AMENDED REPORT

3Pool Name

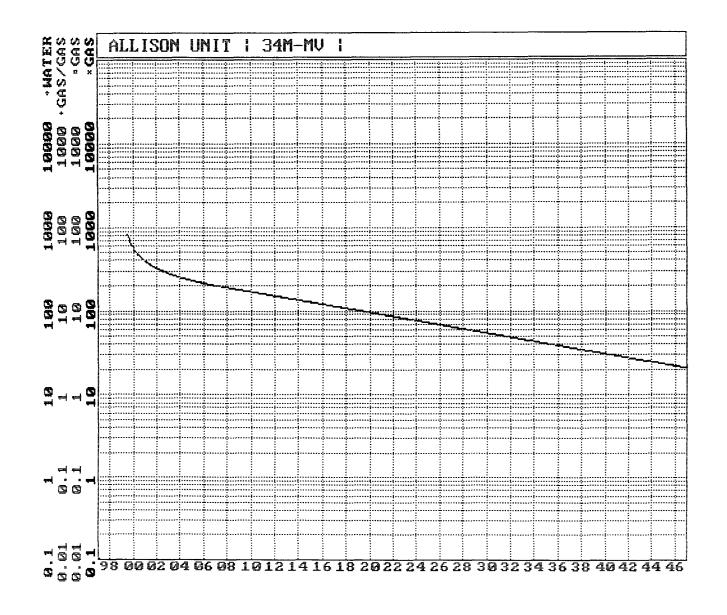
WELL LOCATION AND ACREAGE DEDICATION PLAT

30-045	5 -		71	599/72:	319	Basin Dako	ota/Blanco	Mesa	averd	e
Property 6783	Code				Propert ALLISO	•			*We	ell Number 34M
'OGRID N	No.	-	BURLI	NGTON	*Operato RESOURCE	r Name S OIL & GAS	COMPANY			levation 6594
				1	¹⁰ Surface	Location				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	st line	County
J	11	32N	7W		1670	SOUTH	1600	EA	ST	SAN JUAN
	L.,,	11 B	ottom	Hole L	ocation I	f Different	From Surf	ace		·•····
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	st line	County
12 Dedicated Acres	<u></u>	¹³ Joint ar Inf	ill ¹⁴ Cons	olidation Code	³⁵ Onder No.					
DK: W/3	77.66 7 <u>7.66</u>									

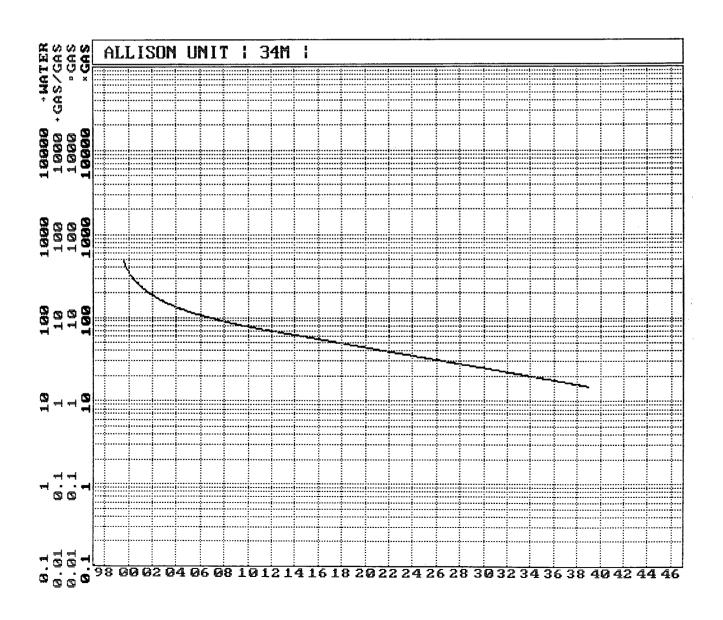
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



Allison Unit #34M Expected Production Mesaverde Formation



Allison Unit #34M Expected Production Dakota Formation



Allison Unit #34M

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 GRAVITY COND. OR MISC. (C/M) C %N2 0.16 %CO2 2.17 %H2S 0 DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) FLOWRATE (MCFPD) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA) 668.2	GAS GRAVITY COND. OR MISC. (C/M) %N2 %CO2 %H2S DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) FLOWRATE (MCFPD) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA) 12
MV-Original	DK-Original
GAS GRAVITY 0.584	GAS GRAVITY 0.

Page No.: 1

Print Time: Thu Jan 07 07:25:55 1999
Property ID: 52

Property Name: ALLISON UNIT | 55 | 44555A-1
Table Name: Q:\PUBLIC\GENTITY\GDPNOS\TEST.DBF

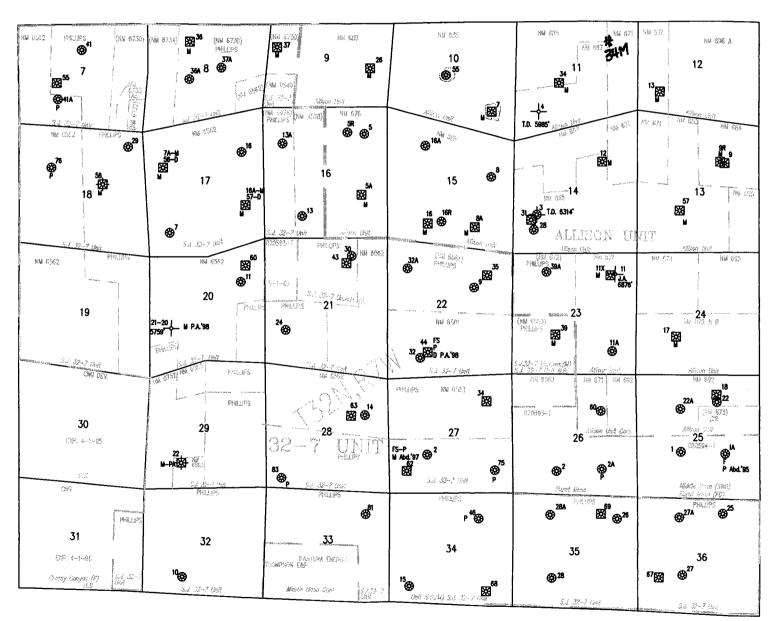
DATE	CUM_GAS Mcf	M SIWHP
11/13/79	0	1152.0
03/11/80	-	662.0
06/02/81	94131	587.0
05/18/82	135158	482.0
11/02/84	215334	674.0
11/03/86	264075	610.0
09/31/89	376162	582.0
09/31/89	376162	582.0
09/31/89	376162	582.0
02/18/91	423806	453.0
07/15/91	443456	465.0
07/05/93	507709	583.0

Page No.: 1

Print Time: Thu Jan 07 07:36:57 1999
Property ID: 57
Property Name: ALLISON UNIT | 7 | 49037A-1
Table Name: Q:\PUBLIC\GENTITY\GDPNOS\TEST.DBF

	CUM_GAS Mcf	
10/21/54	0	0.0
07/29/59	1189000	2427.0
07/29/60		775.0
07/28/61	1586000	2000.0
04/18/62	1672000	1905.0
04/29/63		1825.0
04/22/64		1523.0
10/18/65		1585.0
02/23/66		2099.0
03/06/67	2346000	1917.0
03/08/68	2529000	1810.0
04/16/69		1715.0
06/02/70	3067298	1614.0
07/19/71	3289091	1509.0
08/10/72		1449.0
06/18/73		1412.0
04/29/75		1337.0
08/08/77		1292.0
06/05/79	4519551	1232.0
06/02/81	4762057	1212.0
09/02/83		1104.0
05/02/85		1052.0
08/15/88		881.0
04/22/90	5249188	1027.0

Allison Unit #34M Mesaverde / Dakota 32N-7W-11

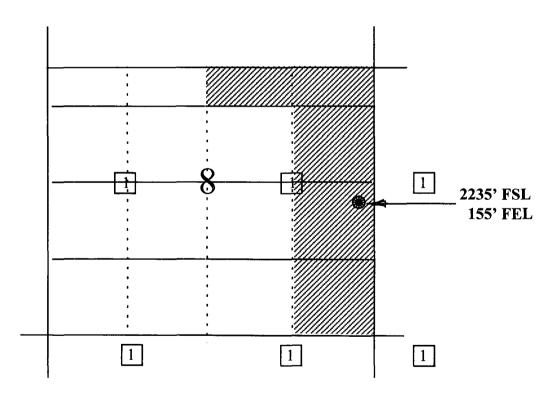


BURLINGTON RESOURCES OIL AND GAS COMPANY

Allison Unit Com #64 OFFSET OPERATOR \ OWNER PLAT Nonstandard Location

Mesaverde / Dakota Formations Well

Township 32 North, Range 6 West



1) Burlington Resources

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. 10743 Order No. R-9918

APPLICATION OF MERIDIAN OIL INC. FOR DOWNHOLE COMMINGLING AND FOR AN ADMINISTRATIVE DOWNHOLE COMMINGLING PROCEDURE WITHIN THE ALLISON UNIT AREA, SAN JUAN COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 8:15 a.m. on June 17, 1993, at Santa Fe, New Mexico, before Examiner David R. Catanach.

NOW, on this 6th day of July, 1993, 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, Meridian Oil Inc., seeks approval to commingle gas production from the Blanco-Mesaverde and Basin-Dakota Pools within the Allison Unit Well No. 9R located 1720 feet from the North line and 1655 feet from the East line (Unit G) of Section 13, Township 32 North, Range 7 West, NMPM, San Juan County, New Mexico.
- (3) The applicant further seeks the adoption of an administrative procedure for authorizing the downhole commingling of Blanco-Mesaverde and Basin-Dakota Pool production within certain existing and subsequently drilled wells in its Allison Unit Area, San Juan County, New Mexico, without additional notice to each affected interest owner within the Unit Area.

- (4) The Allison Unit Well No. 9R is to be drilled as a replacement well for the Allison Unit Well No. 9 which is located 1765 feet from the North line and 1500 feet from the East line (Unit G) of Section 13 and which is currently completed in and producing from the Basin-Dakota Pool.
- (5) The Allison Unit Well No. 9 was drilled in 1955 and has cumulatively recovered some 4.4 BCF of gas from the Basin-Dakota Pool.
- (6) Due to the age and mechanical condition of the Allison Unit Well No. 9, the applicant has estimated that it will not recover some 1.7 BCF of gas in the Basin-Dakota Pool underlying the E/2 of Section 13.
- (7) Applicant's testimony indicates that due to economics, the Allison Unit Well No. 9R cannot be drilled solely to recover gas reserves in the Basin-Dakota Pool.
- (8) The applicant expects to encounter marginal production only from the Blanco-Mesaverde Pool.
- (9) The proposed downhole commingling is necessary in order for the applicant to economically recover Basin-Dakota and Blanco-Mesaverde Pool reserves underlying the E/2 of Section 13.
- (10) The Allison Unit is a Federal exploratory unit initially comprising some 11,705 acres in New Mexico and some 2,069 acres in Colorado. Within New Mexico, the unit comprises portions of Township 32 North, Ranges 6 and 7 West, NMPM, San Juan County. The unit was formed in 1950 and is currently operated by Meridian Oil Inc.
- (11) The evidence and testimony presented indicates that the Basin-Dakota and Blanco-Mesaverde Pools have both been substantially developed within the Allison Unit.
- (12) The applicant has identified numerous Mesaverde and Dakota well locations within the Allison Unit which by virtue of marginal gas reserves and resulting poor economics cannot be economically drilled and produced as stand alone units.
- (13) The current well economics and projected Dakota and Mesaverde gas reserves underlying these respective tracts virtually assure that these wells must be downhole commingled in order to meet the economic criteria for drilling.
- (14) The applicant expects initial producing rates from both the Mesaverde and Dakota formations to be fairly marginal in nature.

- (15) The applicant further demonstrated through its evidence and testimony that within the wells it proposes or will propose to commingle within the Unit Area:
 - a) there will be no crossflow between the two commingled pools;
 - b) neither commingled zone exposes the other to damage by produced liquids;
 - c) the fluids from each zone are compatible with the other;
 - d) the bottomhole pressure of the lower pressure zone should not be less than 50 percent of the bottomhole pressure of the higher pressure zone adjusted to a common datum; and,
 - e) the value of the commingled production is not less than the sum of the values of the individual production.
- (16) The Dakota and Mesaverde Participating Areas within the Allison Unit are not common.
- (17) By virtue of different Participating Areas, the interest ownership between the Dakota and Mesaverde formations within any given wellbore is not common.
- (18) Applicant's Exhibit No. 2 in this case is a list of three hundred and fifty four (354) interest owners in the Dakota and Mesaverde Participating Areas within the Allison Unit. All such interest owners were notified of the application in this case.
- (19) Rule No. 303(C) of the Division Rules and Regulations provides that administrative approval for downhole commingling may be granted provided that the interest ownership, including working, royalty and overriding royalty interest, is common among the commingled zones.
- (20) Applicant's proposed administrative procedure would provide for Division approval to downhole commingle wells in the Allison Unit Area without hearing, and without the requirement that each interest owner in the Dakota and Mesaverde Participating Areas be notified of such commingling.
- (21) The downhole commingling of wells within the Allison Unit Area will benefit working, royalty and overriding royalty interest owners. In addition, the downhole commingling of wells within the Allison Unit Area should not violate the correlative rights of any interest owner.

- evidence in this case indicates that. to each interest owner within the Dakota an Aesaverde Participating Areas of subsequent downhole comminglings within the Allison Unit is unnecessary and is an excessive burden on the applicant.
- (23) No interest owner and/or offset operator appeared at the hearing in opposition to the application.
- (24) An administrative procedure should be established within the Allison Unit for obtaining approval for subsequently downhole commingled wells without notice to Unit interest owners and hearing, provided however that, all provisions contained within Rule No. 303(C) of the Division Rules and Regulations, with the exception of Part 1 (b)(v), are fully complied with.
- (25) The proposed administrative procedure for obtaining approval for downhole commingling will allow the applicant the opportunity to recover additional gas reserves from the Allison Unit Area which may otherwise not be recovered, thereby preventing waste, and will not violate correlative rights.
- (26) In the interest of prevention of waste and protection of correlative rights, the proposed downhole commingling within the Allison Unit Well No. 9R should be approved.
- (27) The applicant should consult with the supervisor of the Aztec District Office of the Division subsequent to the completion of the subject well in order to determine a proper allocation of production.
- (28) The operator should immediately notify the supervisor of the Aztec district office of the Division any time the subject well has been shut-in for seven consecutive days and shall concurrently present, to the Division, a plan for remedial action.

IT IS THEREFORE ORDERED THAT:

- (1) The applicant, Meridian Oil Inc., is hereby authorized to commingle gas production from the Blanco-Mesaverde and Basin-Dakota Pools within the Allison Unit Well No. 9R located 1720 feet from the North line and 1655 feet from the East line (Unit G) of Section 13, Township 32 North, Range 7 West, NMPM, San Juan County, New Mexico.
- (2) The applicant shall consult with the supervisor of the Aztec district office of the Division subsequent to the completion of the subject well in order to determine a proper allocation of production.

- (3) The operator shall immediately notify the supervisor of the Aztec district office of the Division any time the subject well has been shut-in for seven consecutive days and shall concurrently present, to the Division, a plan for remedial action.
- (4) An administrative procedure for obtaining approval to downhole commingle wells within the Allison Unit, located in portions of Township 32 North, Ranges 6 and 7 West, NMPM, San Juan County, New Mexico, is hereby established.
- (5) In order to obtain Division authorization to downhole commingle wells within the Allison Unit, the applicant shall file an application with the Santa Fe and Aztec Offices of the Division. Such application shall contain all of 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 Dakota and Mesaverde Participating Areas in the Allison Unit of such proposed commingling. In addition, the application shall contain evidence that all offset operators and the United States Bureau of Land Management (BLM) have been notified of the proposed commingling.
- (6) Jurisdiction is hereby 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

SEAL