ATE IN	191	8	98	SUSPENSE	12/28	198	ENGINEER	DC	LOGGED BY	W	
										7	

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

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



2151

	Al	DMINISTRATIVE APPLICATION COVERSHEET
THI	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
\pp lic	cation Acronym	
	dnwoG-DHQ] looG-DQ] W]	[DD-Directional Drilling] [SD-Simultaneous Dedication] ole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] (FX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Sait Water Disposal] [IPI-Injection Pressure Increase] [ed Enhanced Oil Recovery Certification] [PPR-Positive Production Response]
[1]	[A]	PPLICATION - Check Those Which Apply for [A] Location - Spacing Unit - Directional Drilling NSL NSP DD DSD DEC 8
	Check [B]	One Only for [B] or [C] Commingling - Storage - Measurement DHC CTB PLC PC OLS OLM
	[C]	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery ☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR
[2]	NOTIFICAT [A]	ION 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]	INFORMAT	ION / DATA SUBMITTED IS COMPLETE - Certification

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 (including API numbers, pool codes, etc.)*, pertinent information and any required notification is cause to have the application package returned with no action taken.

No	te: Statement must be completed by an inc	dividual with managerial and/or supervi	sory capacity.
	Jean Shad	0	
Print or Type Name	Signature	Title	Date

DISTRICT I

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

DISTRICT II

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

DISTRICT III

1000 Rio Brazos Rd, Aztec, NM 87410-1693

TYPE OR PRINT NAME: Ken Collins

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

Burlington Resources Oil & Gas C	Company PO B	PO Box 4289, Farmington, NM 87499				
Operator	Addre					
Allison Unit		8-32N-06W r Sec - Twp - Rge	San Juan County			
rease	THE E		g Unit Lease Types: (check 1 or more)			
OGRID NO14538 Property Cod	de6784 API NO30-045-2	965 <u>3</u>	tate, (and/or) Fee _x			
The following facts are submitted in support of downhole commingling: 1. Pool Name and	Upper Zone Blanco Mesaverde - 72319	Intermediate Zone	Lower Zone Zone Basin Dakota - 71599			
Pool Code	Dianos mosavordo - 72515		Buom Burous - 1 1000			
Top and Bottom of Pay Section (Perforations)	will be supplied upon completion		will be supplied upon completion			
Type of production (Oil or Gas)	gas		gas			
Method of Production (Flowing or Artificial Lift)	flowing		flowing			
Bottomhole Pressure Oil Zones - Artificial Lift:	(Current) a. 678 psi (see attachment)	a.	a. 840 psi (see attachment)			
Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original	(Original) b. 1376 psi (see attachment)	b.	b. 3233 psi (see attachment)			
6. Oil Gravity (API) or Gas BTU Content	BTU 993		BTU 948			
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			
Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data	Rates:	Rates:	Rates:			
* If Producing, give data and oil/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%)	Oil: Gas: % will be supplied upon completion	Oil: Gas: %	Oil: Gas: % will be supplied upon completion			
 If allocation formula is based up attachments with supporting data Are all working, overriding, and roll for, have all working, overriding Have all offset operators been given. 			•			
Have all offset operators been give	ven written notice of the proposed	downhole commingling? _x_Yes	sNo			
11. Will cross-flow occur? _x\ production be recovered, and will		•				
12. Are all produced fluids from all co						
13. Will the value of production be de			•			
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 applicationX_Yes No						
15. NMOCD Reference Cases for Rule	303(D) Exceptions: ORDER NO(S	S)Reference OrderR-9918	3 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		-	•			
SIGNATURE: Lemeth	Collo TITLE: Prod	uction Engineer DATE: 1	2-07-98			

TELEPHONE NO.:

(505) 326-9700

District I PO Box 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 90 Box 2088, Santa Fe, NM 87504-2088

State of New Mexico Energy, Minerals & Natural Resources Department

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

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

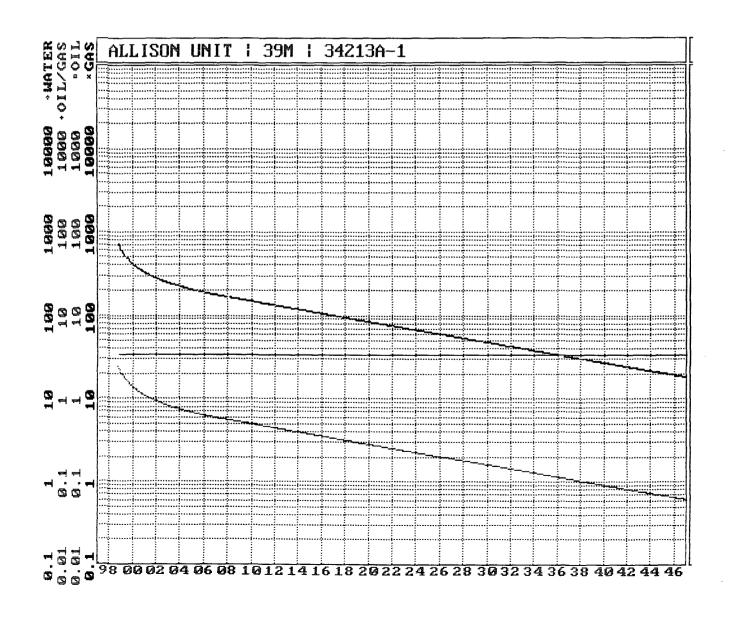
WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number				*Pool Cod	e	³Paol Name				
30-04		715	99/723	19	Basin Da	sin Dakota/Blanco Mesaverde				
¹Property Code					*Proper	ty Name			⁶ Well Number	
6784						39M				
'OGRID	No.				Elevation					
14538		•	BURLI	NGTON	RESOURCE	SOURCES OIL & GAS COMPANY 6505'				
				1	⁰ Surface	Location				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
. J	18	32N	6W		2065	SOUTH	2325	EAST	SAN JUAN	
		¹¹ B	ottom	Hole L	ocation	If Different	From Surf	асе		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
					<u></u>		<u> </u>			
DK: E/320 MV: E/320		¹³ Joint or Inf	fill 14 Cons	olidation Code	²⁵ Order No.					
MV: E/3	40	L					· · · · · · · · · · · · · · · · · · ·		v	

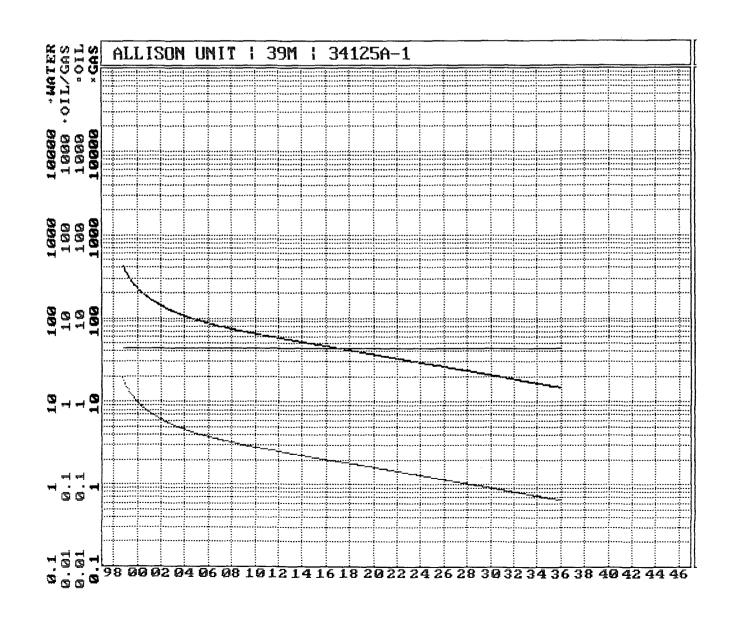
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNITL ALL INTERESTS HAVE BEEN CONSOLIDATED

ווט אבנ	-ONADEL N	OR A NON-STAN	DARE	UNIT HAS BEEN APPROV	ED BY	THE DIVISION
131	6.70'	1339.14 ⁻		2669.70		17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief
-	1					
3.76					. 96	
2663					2676	Signature Peggy Bradfield
	2			FEE 		Regulatory Administrator Title
		1	Ι Q			Date
	3		0	2325'		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.
53.20					. 74	AUGUST 4, 1998 Date of Survey Signature and Seel of Applicate Division ED MEXICOR
265	4		2065'	NM-04207	2632	METICOS W W S 50 5 7 5 5 68 5 7 5 5
131	2.08'	1325.28	L	2650.56		certificate Number

Allison Unit #39M Blanco Mesaverde Expected Production Curve



Allison Unit #39M Basin Dakota Expected Production Curve



Page No.: 1

Print Time: Wed Nov 25 07:01:18 1998 Property ID: 37

Property Name: ALLISON UNIT | 20 | 52930B-1

Table Name: Q:\PUBLIC\GENTITY\GDPNOS\TEST.DBF

	CUM_GAS Mcf	Psi		
05/23/59	0	2691.0	-original	Allison Unit #39M
06/01/59	0	2690.0	U	· · · · · · · · · · · · · · · · · · ·
02/22/60	235000	2121.0		Dakota Offset
07/28/61	818000	1868.0		,
04/25/62	1024000	1777.0		
05/06/63	1116000	1948.0		
04/22/64	1218000	1936.0		
05/03/65	1409000	1788.0		
02/23/66	1556000	1722.0		
03/06/67	1788000	1643.0		
03/08/68	2354000	1585.0		
04/16/69	2353404	1521.0		
06/20/70	2516933	1477.0		
07/19/71	2718492	1882.0		
02/15/72	2898250	1404.0		
00/04/73 00/04/73	3082901	860.0		
00/04/73	3082901 3082901	860.0 860.0		
10/04/73	3218836	860.0		
04/29/75	3565124	1277.0		
08/08/77	4081212	1257.0		
06/04/79	4507878	1172.0		
05/15/81	4933240	1167.0		
04/25/83	5178660	1139.0		
05/02/85	5344856	1337.0		
08/16/88	5607227	1306.0		
04/22/90	5895576	1147.0		
03/29/92	6140656	1050.0		
03/01/94	6272083	709.0-	-current	

Page No.: 1

Print Time: Wed Nov 25 06:59:09 1998 Property ID: 2397

Property Name: ALLISON UNIT | 10 | 52995B-1
Table Name: K:\ARIES\RR99PDP\TEST.DBF

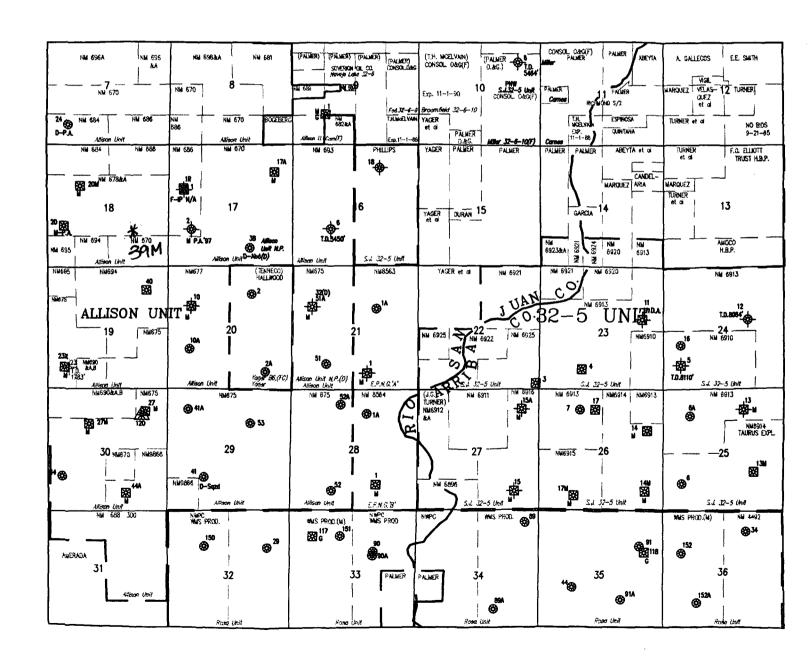
DATE	CUM_GAS	M SIWHP		
04/05/56	0	1167 0	-original	Allison Unit #39M
07/23/56	35000	819.0	crigated	
06/07/57	149000	672.0		Mesaverde Offset
11/14/58	255000	749.0		,
07/29/59	310000	787.0		
07/29/60	372000	702.0		
07/28/61	428000	685.0		
04/25/62	470000	694.0		
04/29/63	515000	741.0		
04/29/64	575000	718.0		
05/10/65	635000	649.0		
04/19/66	701000	775.0		
05/16/67	772000	598.0		
05/02/68	836000.	593.0		
06/29/69	907891	599.0		
11/09/70	945021	633.0		
08/31/71	981281	647.0		
06/22/72	1021091	643.0		
04/18/74	1105130	637.0		
06/02/76	1212501	647.0		
08/03/78	1317379	636.0		
06/05/80	1400083	632.0		
05/03/82 05/17/84	1465206	612.0		
03/17/84	1509086	670.0		
05/23/89	1555096 1648631	653.0 615.0		
03/23/89	1706025	559.0		
08/13/91	1723876	571.0		
05/04/93	1785206		-current	
, , ,	_, 05200	201.0	Currence	

Allison Unit #39M

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 0.591 COND. OR MISC. (C/M) C %N2 0.89 %CO2 1.81 %H2S 0 DIAMETER (IN) 2 DEPTH (FT) 7170 SURFACE TEMPERATURE (DEG F) 60 BOTTOMHOLE TEMPERATURE (DEG F) 137 FLOWRATE (MCFPD) 0 SURFACE PRESSURE (PSIA) 581 BOTTOMHOLE PRESSURE (PSIA) 677.8	GAS GRAVITY COND. OR MISC. (C/M) %N2 %N2 %CO2 4.78 %H2S DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) FLOWRATE (MCFPD) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA) 80.606 C C C C C C C C C C C C C C C C C C
MV-Original	DK-Original
GAS GRAVITY COND. OR MISC. (C/M) %N2 %CO2 1.81 %H2S DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA) 1376.3	GAS GRAVITY COND. OR MISC. (C/M) %N2 %CO2 4.78 %H2S DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) FLOWRATE (MCFPD) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA) 3232.7

Allison Unit #39M Blanco Mesaverde / Basin Dakota 32N-06W-18J



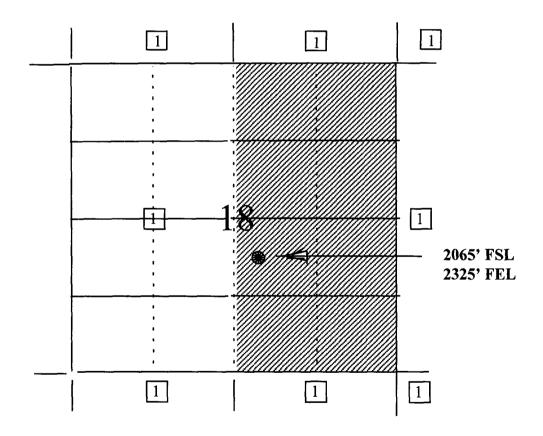
BURLINGTON RESOURCES OIL AND GAS COMPANY

Allison Unit #39M

OFFSET OPERATOR \ OWNER PLAT Downhole Commingle

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.

- (22) 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