			· · · · · · · · · · · · · · · · · · ·		
DATE IN	7/14/98	SUSPENSE 8/3/98			TYPE DHC
	1.1		ABOVE THIS LINE FOR DIVISION USE ONLY		
		NEW MEXICO OIL (- Engin		DIVISION	2012 2012
	А	DMINISTRATIV	E APPLICATIO	DN COVERS	SHEET
THIS C	OVERSHEET IS		STRATIVE APPLICATION FOR ROCESSING AT THE DIVISION	EXCEPTIONS TO DIVIS	SION RULES AND REGULATIONS
Applicat	tion Acronyn	IS:			-41
	[PC-Poo [\		orilling] [SD-Simulta CTB-Lease Comminglin - Off-Lease Storage] sion] [PMX-Pressure sposal] [IPI-Injectio	[OLM-Off-Lease Maintenance Ex n Pressure Incres	n] .ease Commingling] e Measurement] (pansion]
[1]	TYPE OF A [A]	PPLICATION - Check Location - Spacing Ur	Those Which Apply fon nit - Directional Drillin DD SD		<u>EIVE</u> 1 4 1998
	Checl [B]	Cone Only for [B] or [C Commingling - Storag	-		and detracted and realizations and here the second
	[C]	Injection - Disposal -	Pressure Increase - Enl	nanced Oil Recove	•
[2]	NOTIFICA [A]	TION REQUIRED TO Working, Royalty	: - Check Those Which or Overriding Royalty		es Not Apply
	[B]	Offset Operators, I	leaseholders or Surface	e Owner	
	[C]	Application is One	Which Requires Publi	shed Legal Notice	•
	[D]	Notification and/or U.S. Bureau of Land Ma	r Concurrent Approval anagement - Commissioner of Public	by BLM or SLO Lands, State Land Office	
	[E]	G For all of the above	e, Proof of Notification	or Publication is	Attached, and/or,
	[F]	U Waivers are Attach	ned		

[3] INFORMATION / 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. <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.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

()	Madhied	ayena
Signature		Title

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DISTRICT I

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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

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

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

APPROVAL PROCESS :

EXISTING WELLBORE

X Administrative ____Hearing

X YES NO

APPLICATION FOR DOWNHOLE COMMINGLIN

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

Burlington Resources O	il & Gas Company	PO Box 4289, Farmington, NM 87499		
Operator	· · · · · · · · · · · · · · · · · · ·	Address		
Allison Unit	40	A 19-32N-06W	San Juan	
Lease	Well No.	Unit Ltr Sec - Twp - Rge	County	

OGRID NO. __14538_ Property Code _6784____ API_NO. 30-045-21320 Federal __X___, State _____, (and/or) Fee __

Spacing Unit Lease Types: (check 1 or more)

The following facts are submitted in support of downhole commingling:	Upper	Intermediate Zone	Lower Zone
1. Pool Name and Pool Code	Blanco Mesaverde - 72319	THE CONTRACT POLICY AND	Basin Dakota - 71599
2. Top and Bottom of Pay Section (Perforations)	will be supplied upon completion		7934-8064
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	(Current) a. 612 psi (see attachment)	а.	a. 940 psi (see attachment)
Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original	(Original) b. 1300 psi (see attachment)	Ь.	b. 2988 psi (see attachment)
6. Oil Gravity ([°] API) or Gas BTU Content	BTU 1052		BTU 950
7. Producing or Shut-In?	shut-in		producing
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 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

9. 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?	YesxN	ł
If not, have all working, overriding, and royalty interests been notified by certified mail?	Yesx_N	١
Have all offset operators been given written notice of the proposed downhole commingling?	YesxN YesxN _x_YesN	1

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_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 Kunthell. Coll _TITLE__Production Engineer_____DATE _06-26-98

TYPE OR PRINT NAME Kenneth M. Collins

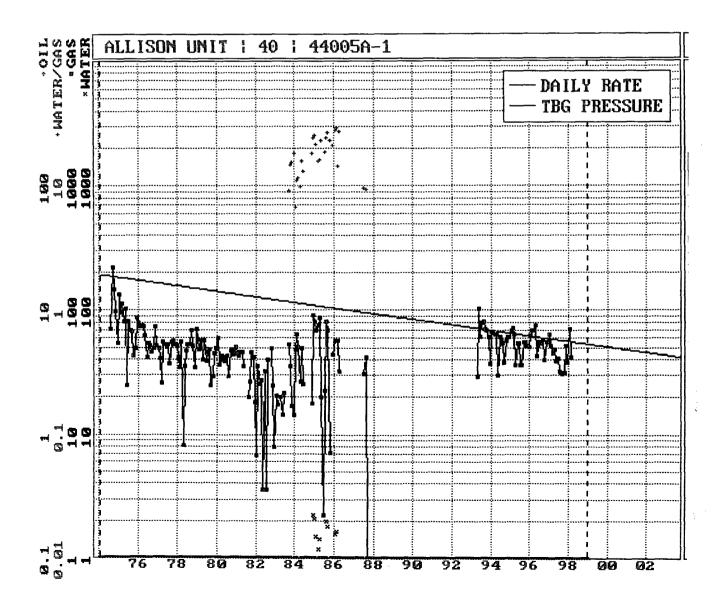
TELEPHONE NO. (505) 326-9700

	Yes	x_No
	Yes	xNo xNo No
ing?	_X_Yes	No

District I PO Box 1980, Hobbs. NM District II PO Drawer DD, Artesia,				ural Resources Departs	Submit to	Instru Appropriate D State Lea	Form C-102 ruary 21, 1994 ctions on back istrict Office ise – 4 Copies ise – 3 Copies
District III 1000 Rio Brazos Rd., A District IV PO Box 2088, Santa Fe,				87504-2088		AMEND	ED REPORT
		WELL LOCAT	ION AND A	CREAGE DEDI	CATION PL	AT	
API Numbe	ſ	*Pool Co	de		³ Pool Nam	e	
30-045-21320)	72319/715	99 Bla	nco Mesaver	de/Basin	Dakota	
Property Code		11 20 2 21 2 23	Propert	y Name		Banu a BW	ell Number
6784			ALLISON	N UNIT			40
'OGRID No. 14538	f	BURLINGTON	Operator RESOURCES	Name SOIL & GAS	COMPANY		Elevation 6511'
	· · · · · ·		¹⁰ Surface	Location			
UL or lot no. Section	Township	Range Lot. Idn	Feet from the	North/South line	Feet from the	East/West line	County
A 19	32N	6W	1000	NORTH	990	EAST	SAN JUAN
UL or lot no. Section	11 BC	Range Lot Idn	Location I Feet from the	f Different North/South line	From Surf Feet from the	ace East/West line	County
MV - E/320 DK - E/320	¹³ Joint or Infi	11 ¹⁴ Consolidation Coc	se ¹⁵ Order No.	1		<u> </u>	
"Not resurve from a plat by David O.	dated	7-27-73		- 990 '	I hereby cert true and com	ATOR CERT ify that the information blete to the best of my e Bradfield	

F. .

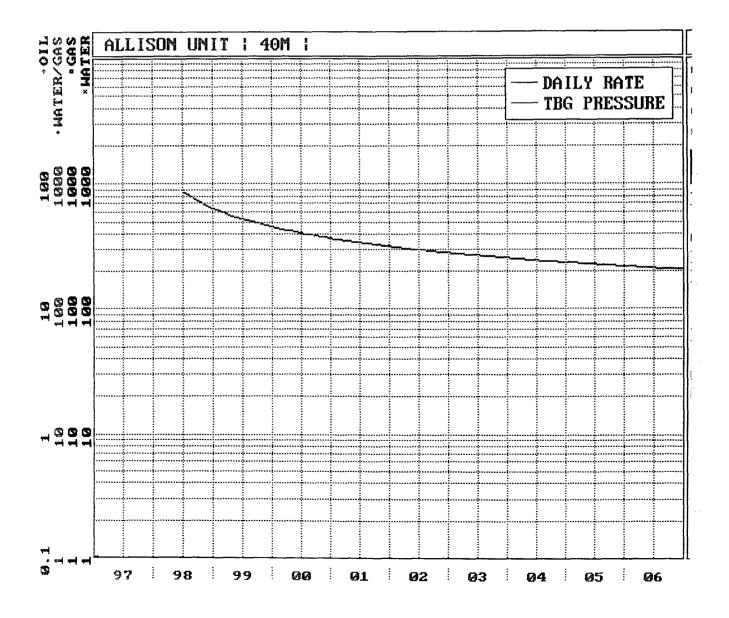
Allison Unit #40 Actual Production Basin Dakota



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Allison Unit #40 Expected Production Blanco Mesaverde



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Page No.: 2 Print Time: Mon Jun 08 16:20:28 1998 Property ID: 46 Property Name: ALLISON UNIT | 40 | 44005A-1 Table Name: Q:\PUBLIC\GENTITY\GDPNOS\TEST.DBF

--DATE-- M SIWHP 01/22/74 2493.0 - Original 11/04/74 1270.0 04/29/75 959.0 06/02/76 797.0 05/01/85 794.0 - Current

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Allison #40 Basin Dakota

Page No.: 7 Print Time: Mon Jun 08 16:20:30 1998 Property ID: 4667 Property Name: ALLISON UNIT | 17 | 52928A-1 Table Name: Q:\PUBLIC\GENTITY\GDPNOS\TEST.DBF

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DATE	M SIWHP Psi	Allison #40 Mesaverde Offset
08/11/58 09/29/58	1074.0-0rigenal 1061.0	Mesaverde Offset
10/22/59	845.0	
07/29/60	617.0	
07/28/61	605.0	
04/25/62	664.0	
04/29/63	659.0	
04/22/64	670.0	
05/03/65	606.0	
02/23/66	590.0	
03/06/67 03/08/68	609.0 646.0	
06/22/69	682.0	
06/02/70	699.0	
12/14/71		
08/10/72	629.0	
04/18/74	612.0	
06/02/76	659.0	
08/03/78	585.0	
06/05/80	597.0	
05/18/82	582.0	
07/02/84	578.0	
03/18/86	548.0	
09/31/89	554.0	
09/31/89	554.0	
09/31/89	554.0	
03/18/91	530.0	
08/13/91	542.0	
05/31/93	513.0 - current	

Allison Unit #40 Bottom Hole Pressures Flowing and Static BHP Cullender and Smith Method Version 1.0 3/13/94

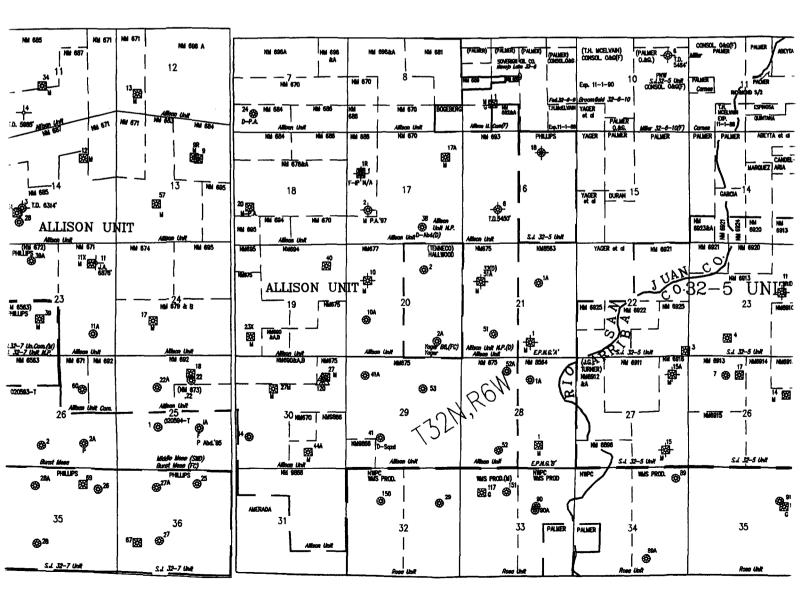
Mesaverde	Dakota
<u>MV-Current</u>	DK-Current
GAS GRAVITY0.631COND. OR MISC. (C/M)C%N20.81%CO21.94%H2S0DIAMETER (IN)2DEPTH (FT)7714SURFACE TEMPERATURE (DEG F)60BOTTOMHOLE TEMPERATURE (DEG F)137FLOWRATE (MCFPD)0SURFACE PRESSURE (PSIA)513BOTTOMHOLE PRESSURE (PSIA)612.2	GAS GRAVITY0.599COND. OR MISC. (C/M)C%N20.78%CO24.12%H2S0DIAMETER (IN)2.375DEPTH (FT)8081SURFACE TEMPERATURE (DEG F)60BOTTOMHOLE TEMPERATURE (DEG F)198FLOWRATE (MCFPD)0SURFACE PRESSURE (PSIA)794BOTTOMHOLE PRESSURE (PSIA)939.9
<u>MV-Original</u>	<u>DK-Original</u>
GAS GRAVITY0.631COND. OR MISC. (C/M)C%N20.81%CO21.94%H2S0DIAMETER (IN)2DEPTH (FT)7714SURFACE TEMPERATURE (DEG F)60BOTTOMHOLE TEMPERATURE (DEG F)137FLOWRATE (MCFPD)0SURFACE PRESSURE (PSIA)1074BOTTOMHOLE PRESSURE (PSIA)1300.3	GAS GRAVITY0.599COND. OR MISC. (C/M)C%N20.78%CO24.12%H2S0DIAMETER (IN)2.375DEPTH (FT)8081SURFACE TEMPERATURE (DEG F)60BOTTOMHOLE TEMPERATURE (DEG F)198FLOWRATE (MCFPD)0SURFACE PRESSURE (PSIA)2493BOTTOMHOLE PRESSURE (PSIA)2988.1

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Allison Unit #40 Recomplete to Add Mesaverde

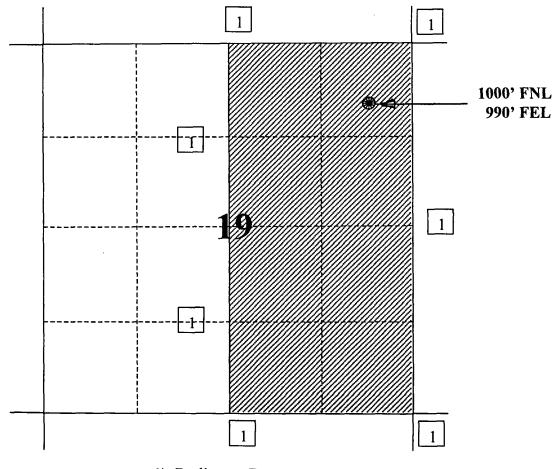


BURLINGTON RESOURCES OIL AND GAS COMPANY

Allison Unit #40

OFFSET OPERATOR/OWNER PLAT Mesaverde / Dakota Formations Commingle 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:

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(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.

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CASE NO. 10743 Order No. R-9918 Page -3-

(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. Assaverde Participating Areas of sub-quent 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.

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CASE NO. 10743 Order No. R-9018 CASE NO. 10743 Order No. R-9918 Page -5-

(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 00 WILLIAM J. LEMAY Director

SEAL