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NEW MENTOO OH CONCERNATION DEVICEON	
NEW MEXICO OIL CONSERVATION DIVISION	
- Engineering Bureau -	
2040 South Pacheco, Santa Fe, NM 87505	
ADMINISTRATIVE APPLICATION COV	ERSHEET
THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATION FOR EXCEPTIONS T WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SAN	
Application Acronyms:	
[NSP-Non-Standard Proration Unit] [NSL-Non-Standard	rd Location]
[DD-Directional Drilling] [SD-Simultaneous Dedi	-
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-	
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off [WFX-Waterflood Expansion] [PMX-Pressure Maintenan	-
[WFA-Waternood Expansion] [FMA-Fressure Waintenan [SWD-Sait Water Disposal] [IPI-injection Pressure	
[EOR-Qualified Enhanced Oli Recovery Certification] [PPR-Positi	
[1] TYPE OF APPLICATION - Check Those Which Apply for [A]	MEGEL WEDT
[A] Location - Spacing Unit - Directional Drilling	
[A] Location - Spacing Unit - Directional Drilling	JIN 2 4 1000
$\Box NSL \Box NSP \Box DD \Box SD$	JUN 2 4 1998
Check One Only for [B] or [C]	JUN 2 4 1998

[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] Uvrking, Royalty or Overriding Royalty Interest Owners

[B] Offset Operators, Leaseholders or Surface Owner

DHC CTB DPLC

[C] Application is One Which Requires Published Legal Notice

[D] ANOtification 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,

D PC

OLS

OLM

[F] **Waivers are Attached**

[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.

Machiced

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

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

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

Form C-107-A New 3-12-96 **APPROVAL PROCESS :** _X_ Administrative ____Hearing **EXISTING WELLBORE** __YES __x_NO

APPLICATION FOR DOWNHOLE COMMINGLING

Burlington Resources Oil 8	Gas Company	PO Box 4289, Farmington, NM 87499			
Operator	······	Address			
Allison Unit	17M	E 24-32N-07W	San Juan		
Lease	Well No.	Unit Ltr Sec - Twp - Rge	County		

OGRID NO. ____14538__ Property Code ____6784____

__ API_NO. ___30-045-not assigned_

Federal x , State , (and/or) Fee x

Spacing Unit Lease Types: (check 1 or more)

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone
1. Pool Name and Pool Code	Blanco Mesaverde - 72319	ALVELTATI I SELEKTA KATAN KATANA K	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	(Current) a. 526 psi (see attachment)	a.	a. 996 psi (see attachment)
Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original	(Original) b. 1208 psi (see attachment)	b.	b. 3424 psi (see attachment)
6. Oil Gravity (API) or Gas BTU Content	BTU 982		BTU 949
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 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: π/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

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?	Yes x No
If not, have all working, overriding, and royalty interests been notified by certified mail?	Yes _xNo Yes _xNo _X_YesNo
Have all offset operators been given written notice of the proposed downhole commingling?	_X_YesNo

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_	Sean	1 kalven	ter	_TITLE:	Reservoir Engineer	DA	ATE: 06-23- <u>98</u>	
			_					

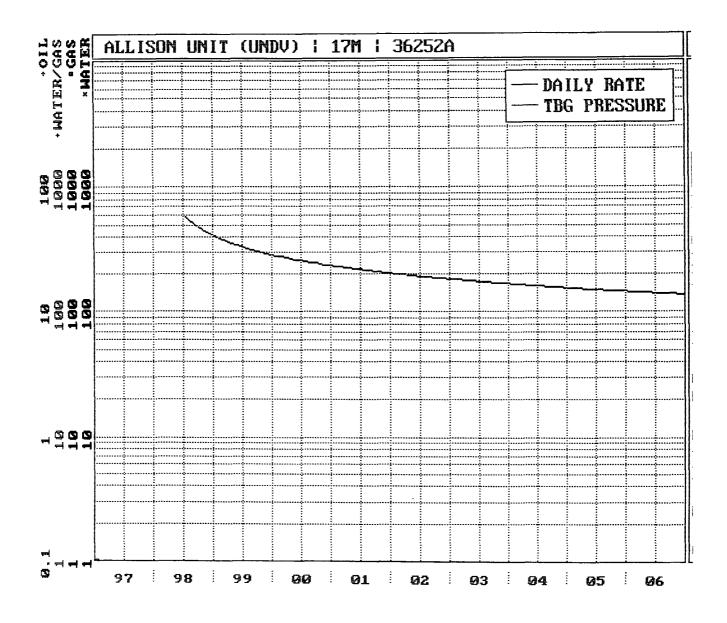
TYPE OR PRINT NAME <u>Sean Woolverton</u> TELEPHONE NO. (505) 326-9700

District II	NM 88241-1980	D			BW MEXICO ral Resources Departm	nent	Revised Feb	Form C ruary 21, : ctions on :
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30-045- Property Code		72319/		Property		IUE/Basin		ell Number
6784			ALL	ISON	UNIT			17M
'OGRID No. 14538		BURLING		Operator URCES	Name OIL & GAS	COMPANY		Elevation 6550
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810						Printed	Bradfield	

Allison Unit #17M Expected Production Curve Blanco Mesaverde

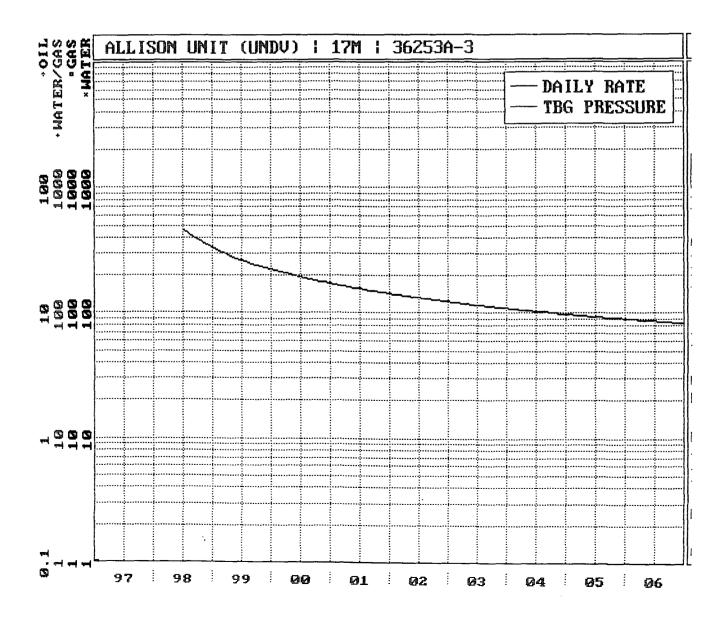
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Allison Unit #17M Expected Production Curve Basin Dakota

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Allison Unit #17M

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 GRAVITY0.587COND. OR MISC. (C/M)C%N20.74%CO22.1%H2S0DIAMETER (IN)2.375DEPTH (FT)6154SURFACE TEMPERATURE (DEG F)60BOTTOMHOLE TEMPERATURE (DEG F)137FLOWRATE (MCFPD)0SURFACE PRESSURE (PSIA)462BOTTOMHOLE PRESSURE (PSIA)525.6	GAS GRAVITY0.602COND. OR MISC. (C/M)C%N20.25%CO24.66%H2S0DIAMETER (IN)2DEPTH (FT)7956SURFACE TEMPERATURE (DEG F)60BOTTOMHOLE TEMPERATURE (DEG F)198FLOWRATE (MCFPD)0SURFACE PRESSURE (PSIA)842BOTTOMHOLE PRESSURE (PSIA)995.8
<u>MV-Original</u>	<u>DK-Original</u>
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Page No.: 1 Print Time: Wed Feb 04 13:35:15 1998 Property ID: 2399 Property Name: ALLISON UNIT | 11A | 49921A-1 Table Name: K:\ARIES\RR98PDP\TEST.DBF Allison Unit #171M Mesaverde Offset --DATE-- M SIWHP Psi 1052.0-original 12/03/79 07/09/80 792.0 06/02/81 644.0 05/18/82 583.0 07/02/84 574.0 03/18/86 545.0 09/31/89 493.0 09/31/89 493.0 09/31/89 493.0 02/14/91 520.0 06/08/91 532.0 462.0-current 07/05/93

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06/07/57	1601.0		
11/14/58	1522.0		
07/29/59	1722.0		
02/22/60	1369.0		
07/28/61	1367.0		
11/20/62	1632.0		
05/06/63	1659.0		
04/22/64	1456.0		
05/03/65	1560.0		
02/23/66	1289.0		
03/06/67	1287.0		
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06/04/79	953.0		
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05/02/85	974.0		
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04/22/90	969.0		
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Allison Unit #17M Blanco Mesaverde/ Basin Dakota 32N-7W-24D

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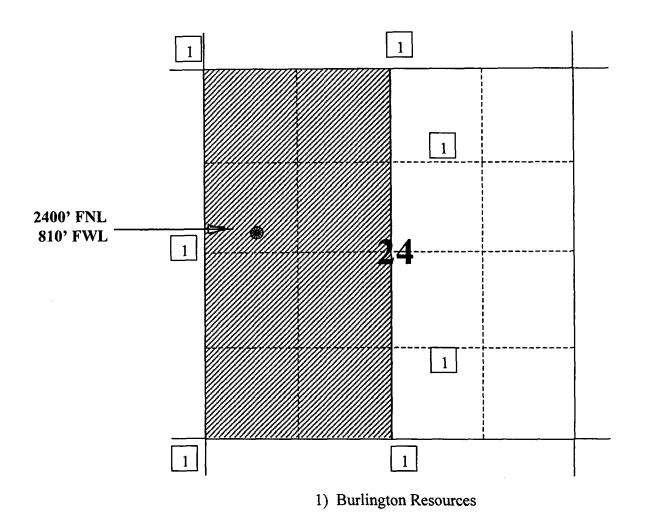
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		Mitolale Mesa S.J.32-7 Unit	Unit NP4ND SJ 32-7 Unit	S.J. 32-7 Unit	5.J. 32-7 Unit

BURLINGTON RESOURCES OIL AND GAS COMPANY

Allison Unit #17M

OFFSET OPERATOR/OWNER PLAT Mesaverde / Dakota Formations Commingle Well

Township 32 North, Range 7 West



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. CASE NO. 10743 Order No. R 18 Page -2-

(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 Mcsaverde 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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JUL- 7-93 WED 10:31 OIL CONSERVATION DIV

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 WILLIAM J. LEMAY Director

SEAL