

# MERIDIAN OIL

January 19, 1994

New Mexico Oil Conservation Division  
Attn: Mr. Bill LeMay  
P.O. Box 2088  
310 Old Santa Fe Trail  
Santa Fe, New Mexico, 87501

RE: Jicarilla 98 Lease  
• Jicarilla 98 #2A SE/4, Section 19, T26N, R03W  
• Jicarilla 98 #3A SE/4, Section 20, T26N, R03W  
Rio Arriba County, New Mexico  
Downhole Commingling Request

Dear Mr. LeMay:

Meridian Oil Inc. is applying for an administrative downhole commingling order for the referenced wells in the Tapacito Pictured Cliffs and the Blanco Mesaverde fields. The ownership of the zones to be commingled is common. All offset interest owners shown on the attached plat and the Bureau of Land Management will receive notice of this commingling application.

The Mesaverde and Pictured Cliffs wells in this area are marginal economic producers based on current rates of 10-90 MCFD for each zone. A reserve study in the area predicts an ultimate recovery of 775 MMCF for the Mesaverde and 700 MMCF for the Pictured Cliffs wells. These reserves and the low current producing rates are uneconomic as separate zone projects. The projects are economic when commingled due to savings realized on surface facilities and tubulars. The only economical way to recover the Mesaverde and Pictured Cliffs reserves identified on the lease is to downhole commingle production from both zones in the wells proposed.

It is proposed to complete the Mesaverde formation and test its production. It is then proposed to set a bridge plug above the Mesaverde, perforate and stimulate the Pictured Cliffs, and test its production. The bridge plug will then be removed, and both zones produced through a single string of tubing. The reservoir characteristics of each of the subject zones are such that underground waste will not be caused by the proposed commingling. The fluids in the two reservoirs are compatible and no precipitates will be formed to cause damage to either reservoir (see attached fluid analyses and compatibility tests). The shut-in pressure for the Mesaverde and Pictured Cliffs are 550 and 490 psi, respectively.

The allocation of the commingled production will be calculated using flow tests from the Mesaverde and Pictured Cliffs during completion operations, and the surrounding production history from both producing intervals. Meridian will consult with the district supervisor of the Aztec NMOCD office for approval of the allocation.

DATE: January 17, 1994  
 NAME: JIC. 98 #S 2A,3A  
 FORM: PICTURED CLIFFS  
 LOCATION  
 UNIT: A  
 SEC: 19,20  
 TWN: 26N  
 RNG: 03W

T  
26  
N

MERIDIAN	CONSOLIDATED	CONSOLIDATED	JEROME P. MCHUGH
7/64 JICARILLA 98 #7 47/850	[18]	4/69 JICARILLA 98 #9 57/859	9/71 TRIBAL #3 22/184
6/61 JICARILLA 98 #2 72/858	JEROME P. MCHUGH DUGAN PROD. MERIDIAN	10/57 JICARILLA 98 #5 79/697	JEROME P. MCHUGH DUGAN PROD. 12/70 TIGER #1 49/436
4/69 JICARILLA 98 #8 31/574	[19]	9/57 JICARILLA 98 #3 40/740	[21] 12/70 TIGER #2 44/284
9/55 JICARILLA 98 #1 5/1338	JICARILLA 98 #2A	11/72 JICARILLA D #11 73/556	JICARILLA 98 #3A
11/74 JICARILLA D #15 22/289	8/56 JICARILLA D #4 29/1226	11/73 JICARILLA D #12 16/328	7/57 JICARILLA 117E #7 34/652
8/56 JICARILLA D #5 7/2871	[30] 11/74 JICARILLA D #16 95/309	5/55 JICARILLA D #2 22/1352	11/74 JICARILLA D #14 31/432
			7/57 JICARILLA 117E #5 98/1479

R-033W

LEGEND  
 COMPLETION DATE  
 WELL NAME  
 MCF/D-CUM (MMCF)

Mr. Bill LeMay  
Page 2  
January 19, 1994

Approval of this commingling application will allow for the prevention of wasted resources and the protection of correlative rights. The Mesaverde and Pictured Cliffs are commingled in eight other wells in this township as per NMOCD Order #'s R-5350 (01/17/77), R-6004 (05/02/79), DHC-923, 926, 927, 928, 929, 930 (09/27/93). Six of these wells (DHC-) are completed, waiting on hook-up while two (R-5350, -6004) are producing with no adverse affects from the commingling. Included with this letter are plats showing ownership of offsetting leases for both formations, copies of letters to offset operators and the Bureau of Land Management, and a detailed report of fluid compatibility.

Sincerely,



Brian P. Ault  
Production Engineer

BPA/rjp

Attachments

xc: Frank T. Chavez - NMOCD/Aztec

DATE: January 17, 1994  
 NAME: JIC. 98 #S 2A,3A  
 FORM: MESAVERDE  
 LOCATION  
 UNIT: A  
 SEC: 19,20  
 TNN: 26N  
 RNG: 03W

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 N

<p>[18]</p>	<p>11/57        JICARILLA 98 #6        0/8        0/0        INA</p>	<p>[16]</p>
<p>10/56        JICARILLA 98 #2        29/1337        0/1</p> <p>[19]</p> <p>10/57        JICARILLA 98 #2A        1/350        0/7        3/279        0/0</p>	<p>10/57        JICARILLA 98 #5        11/330        0/6</p> <p>[20]</p> <p>9/77        JICARILLA 98 #3A        11/111        0/2</p>	<p>[21]</p> <p>8/58        JICARILLA E #1        35/907        .1/2</p>
<p>10/79        JICARILLA D #18        86/535        3/2</p> <p>[30]</p>	<p>NA        JICARILLA D #17        46/224        5/1</p> <p>[29]</p> <p>11/72        JICARILLA D #11        71/598        .1/3</p>	<p>7/57        JICARILLA #5A        71/201        .4/1</p> <p>[28]</p> <p>7/57        JICARILLA 117E #7        0/36        0/3        INA</p> <p>7/57        JICARILLA 117E #5        48/993        5/4</p>

R-033W

LEGEND

COMPLETION DATE	
WELL NAME	
MCFD.CUM (MMCF)	
BOPD.CUM(MBO)	

**PICTURED CLIFFS/MESAVERDE COMMINGLE  
TOWNSHIP 26 NORTH, RANGE 3 WEST  
OFFSET OPERATORS**

1. Meridian Oil Inc.  
P.O. Box 4289  
Farmington, NM 87499-4289
2. Consolidated Oil & Gas Inc.  
410 17th Street, Suite 2300  
Denver, CO 80202
3. Jerome P. McHugh  
650 S. Cherry Street, Suite 1225  
Denver, CO 80222
4. Dugan Production Corp.  
P.O. Box 420  
Farmington, NM 87499-0420

January 19, 1994

Bureau of Land Management  
1235 La Plata Highway  
Farmington, NM 87401

RE: Jicarilla 98 Lease  
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Rio Arriba County, New Mexico  
Downhole Commingling Request

Gentlemen:

Meridian Oil, Inc. is in the process of applying for an downhole commingling order for the referenced wells in Rio Arriba County, New Mexico, in the Tapacito Pictured Cliffs and the Blanco Mesaverde fields.

The purpose of this letter is to notify you of such action. If you have no objections to the proposed commingling order, we would appreciate your signing this letter and returning it to this office.

Your prompt attention to this matter would be appreciated.

Sincerely,



Brian P. Ault  
Production Engineering

BPA/rjp

The above downhole commingling request is hereby approved:

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Date: \_\_\_\_\_

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P.O. Box 420  
Farmington, NM 87499-0420

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Rio Arriba County, New Mexico  
Downhole Commingling Request

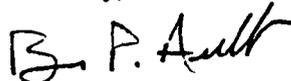
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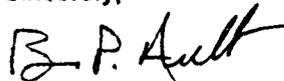
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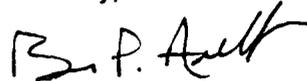
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