

MERIDIAN OIL

OIL CONSERVATION DIVISION
RECEIVED

191 SEP 20 AM 9 07

September 11, 1991

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

RE: Jicarilla G #10
Unit B, Section 12, T26N, R05W
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 well in the Blanco Mesaverde and the Basin Dakota fields. The ownership of the zones to be commingled is common. The offset operator to the east is Columbus Energy and Meridian holds the acreage to the west, north and south of this well. The Bureau of Land Management and Columbus Energy will receive notification of this downhole commingling.

The subject well was drilled and dual completed in the Dakota and Mesaverde zones in 1971. Both zones have been produced through dual strings of 1 1/2" tubing and are now producing at rates below 60 MCFD each. It is anticipated that the slight amount of condensate both zones make will log off the well as production continues to fall to less than 50 MCFD. The commingling of the zones and production up one string of tubing will increase the gas rate to over 100 MCFD and will allow the well to lift fluid more efficiently. This should prolong the life of the well and result in increased reserves for both zones. It is proposed to pull the packer in the well, retire one string of tubing, and produce the well through the other tubing sting.

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 these reservoirs are compatible and no precipitates will be formed to cause damage to either reservoir. Commingling of these two zones has been authorized and successfully completed in the Jicarilla G #9 (NE/4, Section 1, T26N, R05W, Order #R-8321) and the Jicarilla G #8 (NE/4, Section 2, T26N, R05W, Order #R-8658). The shut in pressures for the Dakota and Mesaverde are 872 psi and 606 psi; respectively.

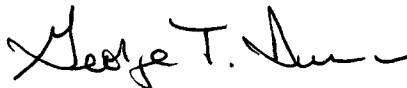
New Mexico Oil Conservation Division
Mr. Bill LeMay
Jicarilla G #10
Downhole Commingling Request

The allocation of the commingled production is proposed based on historical production from both the Dakota and Mesaverde. Since both zones produced against the same line pressure and up the same size tubing, a ratio of the cumulative production was calculated. The attached allocation sheet lists the data used and the allocation is listed below:

	<u>GAS</u>	<u>OIL</u>
Dakota	43%	77%
Mesaverde	57%	23%

Approval of this commingling application will allow for the prevention of wasted resources and protection of correlative rights. Included with this letter are plats showing ownership of offsetting leases for both the Mesaverde and Dakota, a copy of letters to the BLM and offset operators, wellbore diagrams, production history curves, an allocation calculation, and a pertinent data sheet.

Sincerely,



George T. Dunn
Regional Production Engineer

LKS:th
attachments

cc: Frank Chavez - NMOCD/Aztec

MERIDIAN OIL

September 11, 1991

Columbus Energy
Attn: Tracie Stogner
1860 Lincoln Street
Suite 1100
Denver, Colorado 80295

RE: Jicarilla G #10
Unit B, Section 12, T26N, R05W
Rio Arriba County, New Mexico
Downhole Commingling Request

Gentlemen:

Meridian Oil, Inc. is in the process of applying for a downhole commingling order for the Jicarilla G #10 well located in Unit B, Section 12, T26N, R05W, N.M.P.M., Rio Arriba County, New Mexico, in the Blanco Mesaverde and Basin Dakota 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 the attached copy of this letter and returning it to this office.

Your prompt attention to this matter would be appreciated.

Yours truly,

George T. Dunn
Regional Production Engineer

LKS:th

The above downhole commingling request is hereby approved:

Date: _____

MERIDIAN OIL

September 11, 1991

Bureau of Land Management
1235 La Plata Highway
Farmington, New Mexico 87401

RE: Jicarilla G #10
Unit B, Section 12, T26N, R05W
Rio Arriba County, New Mexico
Downhole Commingling Request

Gentlemen:

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Yours truly,

George T. Dunn
Regional Production Engineer

LKS:th

The above downhole commingling request is hereby approved:

Date: _____

ALLOCATION FOR JICARILLA G #10

Commingle Application
Basin Dakota
Blanco Mesaverde

GAS

Dakota:	Cum. Production - 976 MMCF
Mesaverde:	Cum. Production - 1269 MMCF
TOTAL:	Cum. Production - 2245 MMCF

GAS ALLOCATION

Dakota:	43%
Mesaverde:	57%
TOTAL:	100%

OIL

Dakota:	Cum. Production - 1451 B0
Mesaverde:	Cum. Production - 444 B0
TOTAL:	Cum. Production - 1895 B0

OIL ALLOCATION

Dakota:	77%
Mesaverde:	23%
TOTAL:	100%

Pertinent Data Sheet - Jicarilla G #10

Location: 990' FNL, 1685' FEL, Section 12, T26N, R05W, Rio Arriba County, NM

Field: Basin Dakota
Blanco Mesaverde

Elevation: 7239'KB **TD:** 8400'

PBTD: 8361'

Completed: 01/71

Initial Potential: Dakota - 2089 MCFD AOF
Mesaverde - 3658 MCFD AOF

Casing Record:

<u>Hole Size</u>	<u>Csg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u>Top/Cement</u>
13 3/4"	10 3/4"	32.75#	380'	Circ. to Surf
9 7/8"	7 5/8"	26.40# (DV Tool-2150')	4150'	300' (Calc.)
6 3/4"	5 1/2" Liner	10.50# & 11.60#	3992'-8396'	Liner Top

Tubing Record: Dakota - 1 1/2" EUE @ 8246', Baker Model D Packer set @ 8041'.
Mesaverde - 1 1/2" IJ @ 6068'.

Formation Tops:

Pictured Cliffs	3900'
Cliff House	5560'
Pt. Lookout	6083'
Gallup	7042'
Dakota	8134'

Logging Record: Induction, Density, GR, CBL

Stimulation: Dakota - 1st Stage - Perf'd 8236' - 8256', 8284' - 8294', 8316' - 8322'. Frac'd with 49,000# sand, 58,000 gal. KCl water.
2nd Stage - Perf'd 8136' - 8144', 8150' - 8158'. Frac'd with 28,000# sand, 38,000 gal. KCl water.
Gallup - Perf'd Tocito from 7622' - 7630'. Frac'd with 20,000# sand, 28,000 gal. KCl water. Tested 134 MCFD. Squeezed with 150 sacks of cement.
Mesaverde - Point Lookout - Perf'd 6082' - 6106'. Frac'd with 50,000# sand and 55,000 gal. water.
Cliffhouse - Perf'd 5558' - 5584', 5600' - 5606', 5624' - 5640', 5646' - 5664', 5676' - 5704'. Frac'd with 50,000# sand and 54,600 gal. water.

Workover History: None

Production History: Initial deliverability: 1/71 - 700 MCFD DK - 600 MCFD MV
Latest deliverability: 1/91 - 60 MCFD DK - 51 MCFD MV
Cumulative production: 1/91 - 974 MMCF DK - 1269 MMCF MV

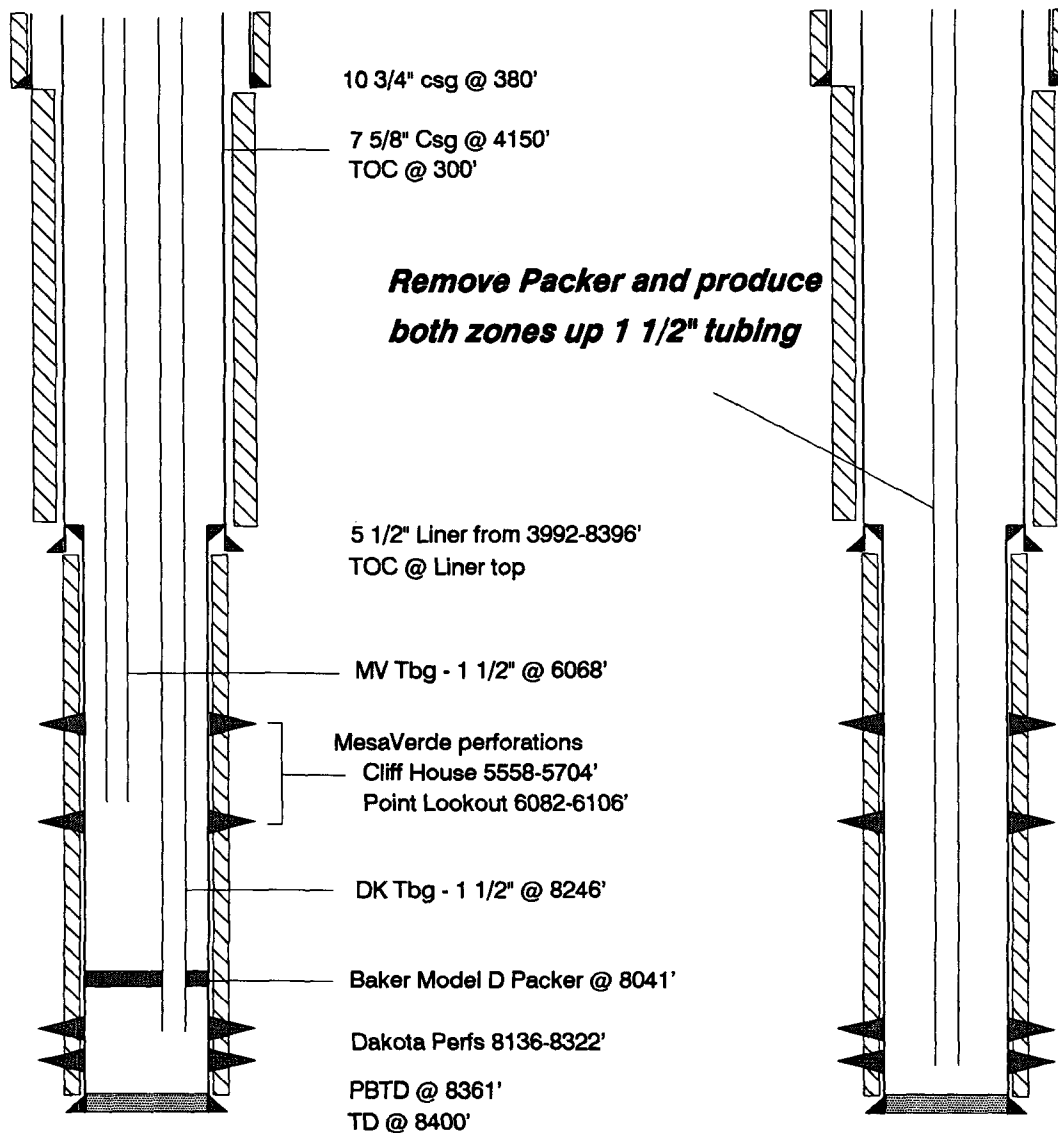
Transporter: GCNM

Jicarilla G #10
Unit B Sect 12-T26N-R5W
Rio Arriba County, New Mexico

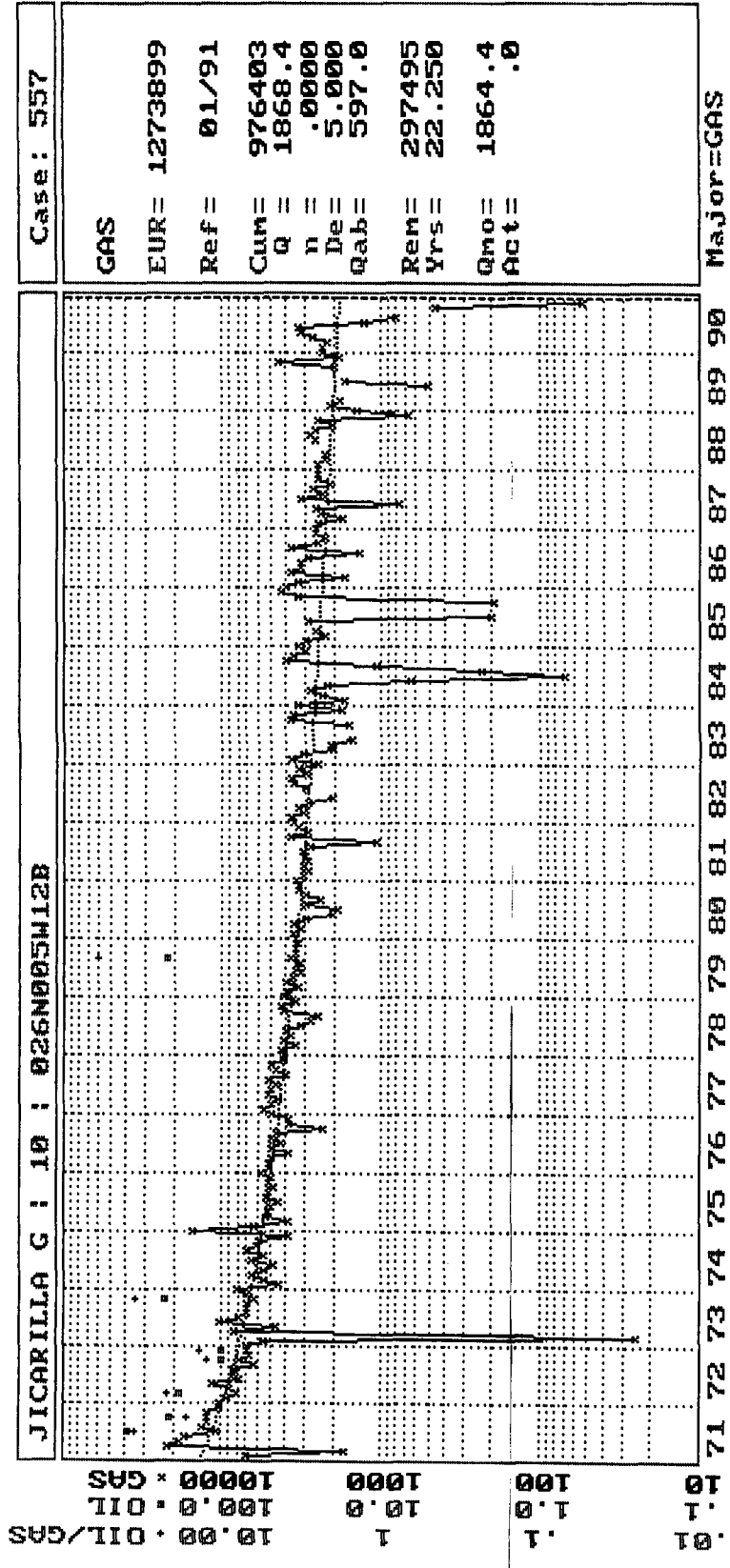
Wellbore Schematic

CURRENT

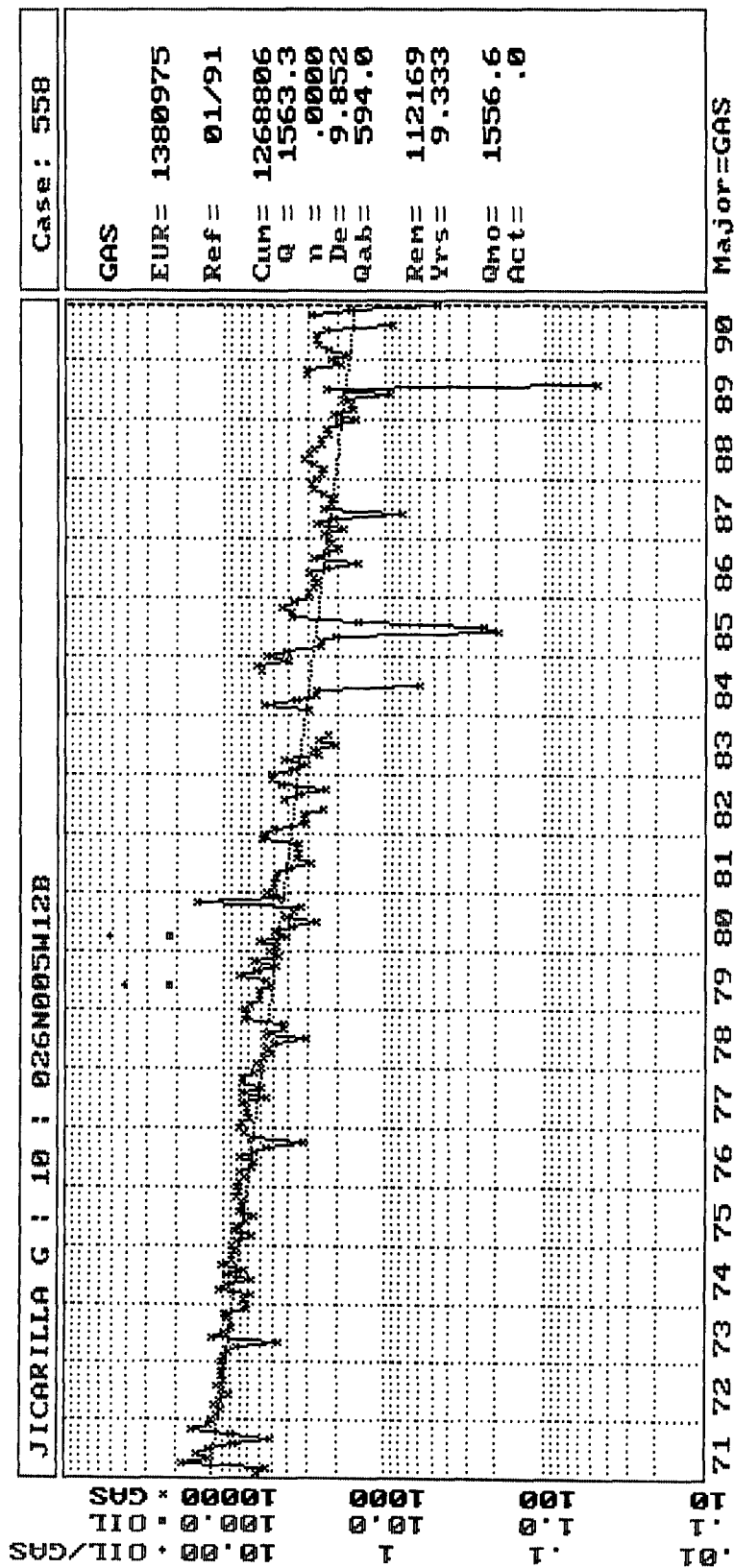
PROPOSED



DAKOTA



MESAVERDE



MERIDIAN OIL

Jicarilla G #10

Rio Arriba County, N. M.

Dakota - Mesaverde

Commingle Application

Dakota Leasehold

Meridian 2	Meridian 1	Columbus Energy 6	Meridian
Meridian 11	Meridian ● Jicarilla G #10 12	Columbus Energy 7	T26N
Amoco 14	Amoco 13	Meridian 18	

R5W

R4W

MERIDIAN OIL

Jicarilla G #10

Rio Arriba County, N. M.

Dakota - Mesaverde

Commingle Application

Mesaverde Leasehold

Meridian 2	Meridian 1	Meridian 6	
Meridian 11	Meridian ● Jicarilla G #10 12	Meridian 7	Columbus Energy
Amoco 14	Amoco 13	Meridian 18	

T26N

R5W

R4W



STATE OF NEW MEXICO
ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE

91 OCT 16 AM 9 17

1000 RIO BRAZOS ROAD
AZTEC, NEW MEXICO 87410
(505) 334-6178

Date: 10/11/91

Oil Conservation Division
P.O. Box 2088
Santa Fe, NM 87504-2088

RE: Proposed MC _____
Proposed NSL _____
Proposed WFX _____
Proposed NSP _____

Proposed DHC X _____
Proposed SWD _____
Proposed PMX _____
Proposed DD _____

Gentlemen:

I have examined the application received on 9/19/91
for the Meridian OPERATOR Jicarilla G #10 LEASE & WELL NO.

B-12-26N-SW and my recommendations are as follows:
UL-S-T-R

Agree

Yours truly,

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