

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

Rec'd 1-24-94

RE: Jicarilla 94 and 95 Lease

- Jicarilla 94 #1A SE/4, Section 22, T27N, R03W
- Jicarilla 94 #5A NW/4, Section 23, T27N, R03W
- Jicarilla 94 #6A SE/4, Section 27, T27N, R03W
- Jicarilla 95 #3A NW/4, Section 35, T27N, R03W
- Jicarilla 95 #4A NW/4, Section 26, T27N, R03W
- Jicarilla 95 #5A NW/4, Section 25, T27N, 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 Gavilan 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.

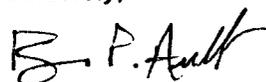
It is proposed to complete the Mesaverde formation and test its production. It is then proposed to set a bridge plug above the Mesaverde, perforate and stimulate the Pictured Cliffs, and test its production. The bridge plug will then be removed, and both zones produced through a single string of tubing. 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.

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 four other wells in this township as per NMOCD Order #'s R-5350 (01/17/77), R-6004 (05/02/79), DHC-924 and DHC-925 (09/27/93). Two of these wells (DHC-924, 925) 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: JICARILLA 94, 95 LSE.
 FORM: PICTURED CLIFFS
 LOCATION
 UNIT:
 SEC: 27N
 TWN: 03W
 RNG: 03W

16 DUGAN PROD	15 MERIDIAN 9/58 JIC. 94 #1 24/398	14 MERIDIAN 5/58 JIC. 89 #5 1/81	13 MERIDIAN
21 5/82 DOME NAV AJO #3 47/10	22 JIC. 94 #5 74/267	23 JIC. 94 #4A	24 MERIDIAN
28 6/82 LALEE ANN #3 6/32	27 6/78 FED. 27 #7 5/112	26 4/69 JIC. 95 # 5 #10 30/802	25 JIC. 95 #4A
33 10/75 OJO HE-HE #2 15/120 10/75 OJO HE-HE #3 19/237	34 5/83 JIC. 93 #12 2/34 34 8/78 FED. 34 #2 8/40 11/75 JIC. 93 #4 11/83	35 10/57 JIC. 95 #4 30/1222 10/79 HIGH ROLL #2 10/265 HIGH ROLL #1R 3/61	36 8/58 JIC. 9 5 #6 15/1304 3/78 BENGAL C #3 28/73

R-03W

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

T
 27
 N

DATE: January 17, 1994

NAME: JICARILLA 94, 95 LSE.

FORM: MESAVERDE

LOCATION

UNIT:
SEC: 27N
TMN: 03W
RNG: 03W

16	15	14	13
JIC 89 #3 0807 INA	JIC 89 #3A 73/341 3/1	JIC 89 #2 3/721 0/1	
7/57	9/56		
1294 MERIDIAN 9/58			
JIC 94 #3A 98/617 .712	JIC 94 #1 72/1524 1/7	JIC 84 #6A 23	4/82 MERIDIAN
21	22	23	24
7/57	9/58	10/58	JIC 94 #7 26/971 .1/2
JIC 94 #3 .1/524 0/1	JIC 94 #5 12/1646 .1/7	JIC 94 #8 21/181 .2/4	
11/77	10/58	9/58	
JIC 94 #2A 51/293 .3/1	JIC 94 #6 47/1872 .4/9	JIC 95 #8 61/1046 0/1	JIC 95 #4 10/56
28	27	26	25
10/56	10/57	11/76	6/58
JIC 94 #2 11/791 0/1	JIC 5 #4 119/2533 0/1	JIC 95 #8A 94/753 1/3	JIC 95 #5 79/1833 .1/11
33	34	35	36
10/82	JIC 96 #3A 3/62	JIC 95 #1 217/47 1/27	NA
JIC 93 #12 74/424 0/1	JIC 93 #2 218/3972 2/10	JIC 95 #1A 171/38 .5/5	JIC 95 #7A 146/1087 1/4
FIELD SERVICE	WILLIAMS	MERIDIAN	MERIDIAN
JIC 95 #3 84/4556 .4/11	JIC 95 #3 84/4556 .4/11	JIC 95 #1A 26/540 2 .4/22	JIC 95 #7 21/295 0/1

R-03-W

LEGEND
COMPLETION DATE
WELL NAME
MCFD - CUM(MMCF)
BOPD - CUM(MBO)

PICTURED CLIFFS/MESAVERDE COMMINGLE
TOWNSHIP 27 NORTH, RANGE 3 WEST
OFFSET OPERATORS

1. Meridian Oil Inc.
P.O. Box 4289
Farmington, NM 87499-4289
2. Merrion Oil & Gas Corp.
610 Reilly Avenue
Farmington, NM 87401
3. Dugan Production Co.
P.O. Box 420
Farmington, NM 87490420
4. Williams Field Service Inc.
295 Chipeta Way
Salt Lake City, UT 84108
5. Max D. Webb
2705 1/2 E. Main
Farmington, NM 87401

MERIDIAN OIL

January 19, 1994

Max D. Webb
2705-1/2 East Main Street
Farmington, NM 87401

RE: Jicarilla 94 and 95 Lease

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- Jicarilla 95 #5A NW/4, Section 25, T27N, R03W

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 Gavilan 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:

Date: _____

January 19, 1994

Williams Field Service Inc.
295 Chipeta Way
Salt Lake City, UT 84108

RE: Jicarilla 94 and 95 Lease

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610 Reily Avenue
Farmington, NM 87401

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Rio Arriba County, New Mexico
Downhole Commingling Request

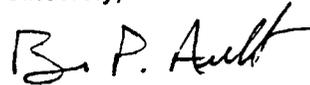
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January 19, 1994

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

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Rio Arriba County, New Mexico
Downhole Commingling Request

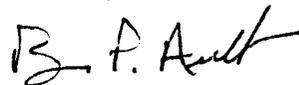
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Brian P. Ault
Production Engineering

BPA/rjp

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Date: _____

January 19, 1994

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

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Rio Arriba County, New Mexico
Downhole Commingling Request

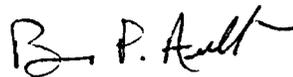
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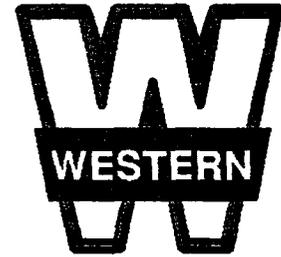
Brian P. Ault
Production Engineering

BPA/rjp

The above downhole commingling request is hereby approved:

Date: _____

MERIDIAN OIL
JICARILLA 98 AND 96 LEASE
RIO ARriba COUNTY, NM
MESA VERDE/PICTURED CLIFFS FORMATION



The Western Company

LABORATORY INVESTIGATION

PREPARED FOR

MR. BRIAN AULT
PRODUCTION ENGINEER

SERVICE POINT
FARMINGTON, NM
(505) 327-6222

PREPARED BY
LOREN DIEDE / DAVE COLESON
DISTRICT ENGINEER
FARMINGTON

MARCH 25, 1993

FM020658

March 25, 1993

Meridian Oil
Jicarilla 96 #2
Jicarilla 98 #5

Three samples from Jicarilla 96 #2 (1 oil, 2 water) and two samples from Jicarilla 98 #5 (2 condensates) were submitted for analysis on March 19, 1993 by Mr. Lesley K. Smith, Senior Reservoir Engineer for Meridian Oil.

These samples were to be analyzed to determine if commingling of each of the well products would have adverse effects on well production.

Samples submitted were:

1. Jicarilla 96 #2
 - a. Mesa Verde oil
 - b. Mesa Verde water
 - c. Pictured Cliffs water
2. Jicarilla 98 #5
 - a. Mesa Verde condensate
 - b. Pictured Cliffs condensate

Lab analysis performed:

1. Oil, condensate analysis
 - a. API gravity
 - b. Pour point
 - c. Cloud point
2. Water analysis
 - a. API water analysis
3. Observation and analysis of commingled oil, condensate and water as applicable for well.

Meridian Oil
Jicarilla 96 #2

Result of Analysis:
Pictured Cliffs produced water

ph : 7.12
Resistivity : 1.65
Sp. Gr. : 1.00

Cations

Sodium & Potassium 1601 mg/ l (calc.)
Calcium 48 mg/ l
Magnesium 5 mg/ l (calc.)

Anions

Chloride 2061 mg / l
Sulfate 0 mg / l
Bicarbonate 976 mg / l

Total dissolved solids 4691

Mesa Verde produced water

ph : 6.52
Resistivity : 3.70
Sp. Gr. : 1.005

Cations

Sodium & Potassium 922 mg/ l (calc.)
Calcium 40 mg/ l
Magnesium 5 mg/ l (calc.)

Anions

Chloride 1649 mg / l
Sulfate 0 mg / l
Bicarbonate 850 mg / l

Total dissolved solids 3466

Meridian Oil
Jicarilla 96 #2

Mesa Verde produced oil

Appearance	:	Light, amber oil
API gravity @ 60 degrees F	:	58.2
Cloud point	:	0 degrees C
Pour point	:	< -10 degrees C

Pictured Cliffs / Mesa Verde produced water
Combined (using high shear) with Mesa Verde produced oil (50:50
mix of waters and oil).

Appearance	:	Cloudy, amber emulsion
Separation	:	Beginning on cessation of shear
Precipitation	:	None observed
Separation @ time	:	At 1 hour - complete

Summary of results:

No precipitation or other observed adverse reaction from
combined waters or from combination of the oil and waters.

Analysis forms follow.

Analysis done by: _____
Dave Coleson



The Western Company of North America

3250 South Side River Road
Farmington, New Mexico 87401
Phone (505)327-6222
Fax (505)327-5766

API WATER ANALYSIS

Company Meridian Sample No. 511393 Date Sampled 3/8/93
Field _____ Legal Description T26N R03W, Sec 2 County or Parish Lincoln State NM
Lease or Unit A Well 1c 96 # 2 Depth _____ Formation PC Water: E/D _____
Type of Water (Produced, Supply, ect.) PRODUCED Sampling Point _____ Sampled By _____

DISSOLVED SOLIDS

CATIONS

	mg/l	me/l
Sodium, Na	<u>1601</u>	<u>69.6</u>
Calcium, Ca	<u>48</u>	<u>2.4</u>
Magnesium, Mg	<u>5</u>	<u>0.4</u>
Barium, Ba	_____	_____
_____	_____	_____

ANIONS

Chloride, Cl	<u>2061</u>	<u>58</u>
Sulfate, SO ₄	_____	_____
Carbonate, CO ₃	_____	_____
Bicarbonate, HCO ₃	<u>976</u>	<u>16</u>
Hydroxide, OH	_____	_____
_____	_____	_____

Total Dissolved Solids (calc.) 4691

Iron, Fe (total) _____

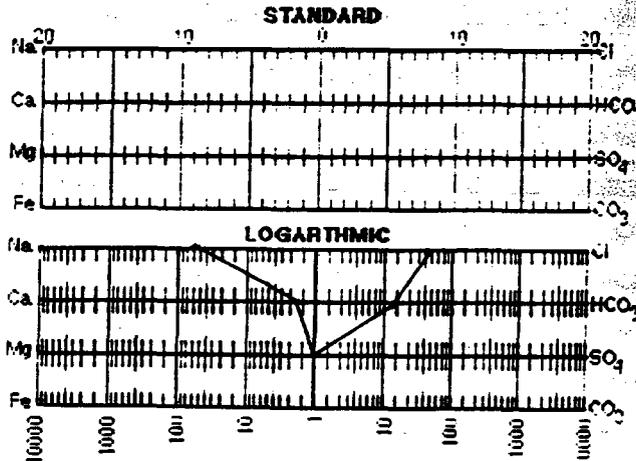
Sulfide, as H₂S _____

Remarks & Recommendations:

OTHER PROPERTIES

pH 7.12
Specific Gravity, 60/60 F 1.00
Resistivity (ohm-meters) 75 °F 1.65
Total Hardness 140

WATER PATTERNS-me/l



Analyst: DC



The Western Company of North America

3250 South Side River Road
Farmington, New Mexico 87401
Phone (505)327-6222
Fax (505)327-5766

API WATER ANALYSIS

Company Meridian Sample No. 21493 Date Sampled 3/6/93
Field _____ Legal Description T26N R03W, S002 County or Parish Ruham State NM
Lease or Unit A Well Le 96 # 2 Depth _____ Formation MV Water: B/D _____
Type of Water (Produced, Supply, ect.) Produced Sampling Point _____ Sampled By _____

DISSOLVED SOLIDS

CATIONS

	mg/l	me/l
Sodium, Na	<u>104</u>	<u>44</u>
Calcium, Ca	<u>40</u>	<u>20</u>
Magnesium, Mg	<u>5</u>	<u>0.4</u>
Barium, Ba	_____	_____
_____	_____	_____

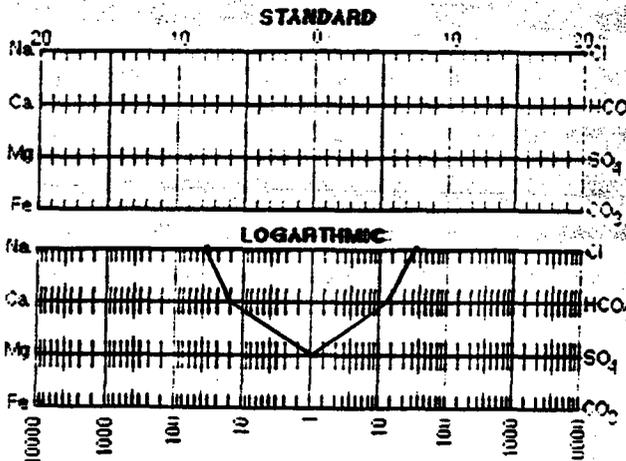
ANIONS

	mg/l	me/l
Chloride, Cl	<u>1649</u>	<u>46.5</u>
Sulfate, SO ₄	_____	_____
Carbonate, CO ₃	_____	_____
Bicarbonate, HCO ₃	<u>1096</u>	<u>18</u>
Hydroxide, OH	_____	_____
_____	_____	_____
Total Dissolved Solids (calc.)	<u>3804</u>	
Iron, Fe (total)	_____	
Sulfide, as H ₂ S	_____	

OTHER PROPERTIES

pH 6.52
Specific Gravity, 60/60 F 1.002
Resistivity (ohm-meter) 44 °C 3.7
Total Hardness 130

WATER PATTERNS-me/l



Analyst: [Signature]

Remarks & Recommendations:

Please refer any questions to:
Loren Dieck-District Engineer
Thank you.



The Western Company of North America

3250 South Side River Road
Farmington, New Mexico 87401
Phone (505)327-6222
Fax (505)327-5766

API WATER ANALYSIS

Company Meridian Sample No. 21593 Date Sampled 3/8/93
Field _____ Legal Description T26N R03W, SEC 2 County or Parish Doña Ana State NM
Lease or Unit A Well Loc 96#2 Depth _____ Formation OCW Water: E/D _____
Type of Water (Produced, Supply, ect.) Produced Sampling Point _____ Sampled By _____

DISSOLVED SOLIDS

CATIONS

	mg/l	me/l
Sodium, Na	<u>922</u>	<u>40</u>
Calcium, Ca	<u>40</u>	<u>20</u>
Magnesium, Mg	<u>5</u>	<u>0.4</u>
Barium, Ba	_____	_____
_____	_____	_____
_____	_____	_____

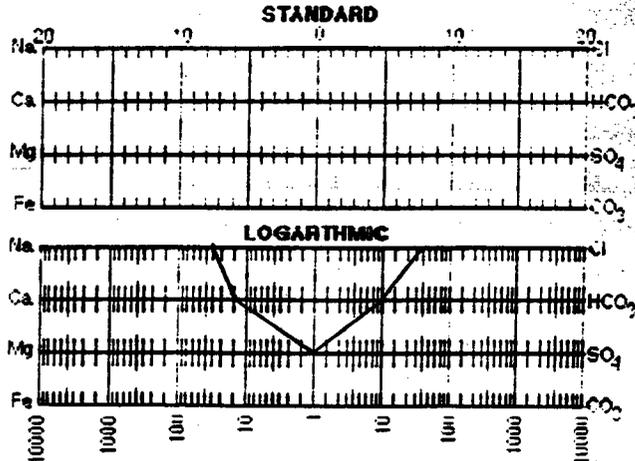
OTHER PROPERTIES

pH	<u>7.29</u>
Specific Gravity, 60/60 F	<u>1.005</u>
Resistivity (ohm-meters) <u>70°C</u>	<u>2.2</u>
Total Hardness	<u>120</u>
_____	_____
_____	_____

ANIONS

	mg/l	me/l
Chloride, Cl	<u>1649</u>	<u>46.5</u>
Sulfate, SO ₄	_____	_____
Carbonate, CO ₃	_____	_____
Bicarbonate, HCO ₃	<u>850</u>	<u>14</u>
Hydroxide, OH	_____	_____
_____	_____	_____

WATER PATTERNS-me/l



Total Dissolved Solids (calc.) 3466

Iron, Fe (total) _____
Sulfide, as H₂S _____

Remarks & Recommendations:

Analyst: DC



Date 3/22/93
M13193

Rocky Mountain Region

THE WESTERN COMPANY

Oil Analysis

Operator MEDIAN Date Sampled _____
Well Sic 96 #2 Date Received MAR. 18/93
Field _____ Submitted By _____
Formation MESA VERDE Worked By DC
Depth _____ Sample Description _____
County RIO ARRIDA LIGHT, AMBER LIQUID
State N.M. _____

API Gravity 58.2 ° at 60°F

Paraffin Content _____ % by weight

Asphaltene Content _____ % by weight

Pour Point _____ °F

Cloud Point _____ °F

Comments:

56.8 @ 46° F

Analyst DC

Meridian Oil
Jicarilla 98 #5

Results of analysis:
Pictured Cliffs produced condensate:

Appearance	:	Light, clear oil
API gravity @ 60 degrees F	:	61.3 @ 60 degrees F
Cloud point	:	< -8 degree C
Pour point	:	< -8 degrees C

Mesa Verde produced condensate:

Appearance	:	Light, clear liquid
API gravity @ 60 degrees F	:	62.6 @ 60 degrees F
Cloud point	:	< -8 degree C
Pour point	:	< -8 degrees C

Commingled Pictured Cliffs and Mesa Verde condensates:

Appearance	:	Light, clear liquid
API gravity @ 60 degrees F	:	59.6 @ 60 degrees F
Cloud point	:	< -8 degree C
Pour point	:	< -8 degrees C

Summary of results:

The mixture of the two condensates displayed no adverse reaction regarding precipitation of solids.

Analysis forms follow:

Analysis done by: _____
Dave Coleson



Date 3/2/93
113093

Rocky Mountain Region

THE WESTERN COMPANY

Oil Analysis

Operator MERIDIAN Date Sampled 2/8/93
Well < 1/2 98-5 Date Received 2/19/93
Field _____ Submitted By _____
Formation MESA VERDE Worked By DC
Depth _____ Sample Description _____
County RO ARIZONA CLEAR LIQUID
State NM

API Gravity 62.6 ° at 60°F

Paraffin Content _____ % by weight

Asphaltene Content _____ % by weight

Pour Point _____ °F

Cloud Point _____ °F

Comments:

61 @ 46°F

Analyst DC



Date 3/24/93
MI 3243

Rocky Mountain Region

THE WESTERN COMPANY

Oil Analysis

Operator <u>MERIDIAN</u>	Date Sampled <u>3/8/93</u>
Well <u>Cie 98-5</u>	Date Received _____
Field _____	Submitted By _____
Formation <u>MD/PC</u>	Worked By <u>DC</u>
Depth _____	Sample Description _____
County <u>RIO ARRIBA</u>	<u>BOTH CLEAR & LIGHT</u>
State <u>NM</u>	_____

API Gravity 36.6° at 60°F

Paraffin Content _____ % by weight

Asphaltene Content _____ % by weight

Pour Point _____ °F

Cloud Point _____ °F

Comments:

60.5 @ 68°F

CLEAR LIQUID - REMAINED CLEAR @ NO PRECIP.

Analyst DC



Date 3/22/93
113493

Rocky Mountain Region

THE WESTERN COMPANY

Oil Analysis

Operator MERIDIAN Date Sampled 3/8/93
Well _____ Date Received 3/19/93
Field _____ Submitted By _____
Formation PICTURED CLIFFS Worked By DC
Depth _____ Sample Description _____
County RIO ARRIBA CLEAR, LIGHT LIQUID
State NM

API Gravity 61.3° at 60°F

Paraffin Content _____ % by weight

Asphaltene Content _____ % by weight

Pour Point _____ °F

Cloud Point _____ °F

Comments:

59.9 @ 44°

Analyst DC

Microsoft Mail v3.0 IPM.Microsoft Mail.Note

From: Ernie Busch

To: Ben Stone

David Catanach

Subject: MERIDIAN OIL INC (DHC)

Date: 1994-02-22 10:40

Priority: R

Message ID: 77EDBC57

Conversation ID: 77EDBC57

JICARILLA 94 #1A

P-22-27N-03W

RECOMMEND: APPROVAL

DHC-989