blood of (g)



ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING GOVERNOR

ANITA LOCKWOOD CABINET SECRETARY

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE. NEW MEXICO 87504 (505) 827-5800

ADMINISTRATIVE ORDER DHC-989

Meridian Oil, Inc. P.O. Box 4289 Farmington, NM 87499-4289

Attention: Brian P. Ault

FEB 4 1994.

CON. DIV.

Jicarilla "94" Well No. 1-A Unit P, Section 22, Township 27 North, Range 3 West, NMPM, Rio Arriba County, New Mexico. Gavilan-Pictured Cliffs and Blanco-Mesaverde Pools

Dear Mr. Ault:

Reference is made to your recent application for an exception to Rule 303-A of the Division Rules and Regulations to permit the subject well to commingle production from both pools in the wellbore.

It appearing that the subject well qualifies for approval for such exception pursuant to the provisions of Rule 303-C, and that reservoir damage or waste will not result from such downhole commingling, and correlative rights will not be violated thereby, you are hereby authorized to commingle the production as described above and any Division Order which authorized the dual completion and required separation of the two zones is hereby placed in abeyance.

In accordance with the provisions of Rule 303-C-4., total commingled oil production from the subject well shall not exceed 40 barrels per day, and total water production shall not exceed 80 barrels per day. The maximum amount of gas which may be produced daily from the well shall be determined by Division Rules and Regulations or by the gas allowable for each respective prorated pool as printed in the Division's San Juan Basin Gas Proration Schedule.

In accordance with the provisions of Rule 303-C, the supervisor of the Aztec District Office of the Oil Conservation Division shall determine the proper allocation of production from the subject well following its completion.

FURTHER: The operator shall notify the Aztec District Office of the Division upon implementation of the commingling process.

Pursuant to Rule 303-C-5, the commingling authority granted by the order may be rescinded by the Division Director if, in his opinion, conservation is not being best served by such commingling.

Approved at Santa Fe, New Mexico on this 18th day of February, 1994.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

WILLIAM J. LEMAY

Director

SEAL

WJL/DRC/amg

cc: Oil Conservation Division - Aztec

Oil Conservation Division - Data Processing

US Bureau of Land Management - Farmington

Ernie Busch

From:

Ernie Busch

To:

David Catanach; Ben Stone MERIDIAN OIL INC (DHC) Tuesday, February 22, 1994 10:40AM

Subject: Date:

Priority:

High

JICARILLA 94 #1A P-22-27N-03W

RECOMMEND: APPROVAL

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 94 and 95 Lease

Jicarilla 94 #1A
Jicarilla 94 #5A
Jicarilla 94 #6A
Jicarilla 95 #3A
Jicarilla 95 #4A
Jicarilla 95 #5A

SE/4, Section 22, T27N, R03W
NW/4, Section 27, T27N, R03W
NW/4, Section 35, T27N, R03W
NW/4, Section 26, T27N, R03W
NW/4, Section 25, T27N, R03W
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/R-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,

R-5350

Brian P. Ault Production Engineer

BPA/rjp

Attachments

xc: Frank T. Chavez - NMOCD/Aztec

| 10/75 OJO HE. HE #2 15/120 33 10/75 OJO HE. HE #3 19/237 | 6/82 LA LEE ANN #3 6/32 DUGAN PROD. | 5/82 DOME NAV AJO #3 47/10 5/83 DUGAN PROD. 3/81 LA LEE ANN #2J 5/3 LA LEE A N#1 9/126 | DUGAN PROD 21 | 16 |
|--|--|---|--|--|
| 5/83 FED. 34 #1 4/1376 JIC. 93 #12 2/34 34 8/78 FED. 34 #2 8/40 11 FED. 34 #2 8/40 11 FED. 34 #2 | 4/78 9/76 FED. 27 #6 FED. #3 * 2/239 35/23 JRC. # WILLIAMS MAX D. WEBB FIELD SERVICE 4/78 JR | MAX D. WEBB MERIDIAN 10. 64#A MERIDIAN 11. 66/78 JIC. 27 #7 5/112 27 | MERIDIAN 9/58 JIC. 94 #1 24/388 22 | 15 |
| HIGH ROLL #4 36/458 5/78 5/78 HIGH ROLL #2 10/265 10/79 93 #4 HIGH ROLL #1R 3/61 | 10/57 JIC. 95 # 5 #10 JIC. 95 #4 30/1222 4 MAA 30/1227 MERKION OIL MEKIDIA C. 95 #34 5/78 | 9/58 JIC. 94 #5 #1A 74/1267 MERIDIAN 10/58 JIC. 95 #4A JIC. 94 #6 20/989 | MERIDIAN JIC. 54 1854 23 | MERIDIAN 5/58 5/58 JIC. 89 #5 1/81 |
| JIC. 95 #1 20/14/26 20/14/26 36 8/58 3/78 JIC. 9 5 #6 15/1304 BENGAL C#3 28/73 3/78 5/210 | MERIDIAN | . MERIDIAN | 24 | 13 |
| LEGEND COMPLETION DATE WELL NAME NCFD - CUM(MNCF) | <u> </u> | Z 27 | | DATE: January 17,1994 NAME: JICARILLA 94, 95 LSE. FORM: PICTURED CLIFFS LOCATION UNIT: SEC: TWN: 27N RNG: 03W |

| | 33 | | | 28 | | 21 | 16 | |
|---|-------------------------------|-----------|--------------------------------------|--|-------------------------------|--|---|------------------------------------|
| | 10 74 | | 10/56 JIC 94#2 11/791 0/1 | 11//7 JIC 94#2A 51/293 | 7/57 JIC 94 #3 1/524 | | 7/57 JIC 89 #3 0/807 | |
| | JIC 218/ 2/ | VICE | JIC, 94 | MERIDIAN 10/58 JIC 94 #8 47/1872 27 .4/9 | JIC 94#1A | MERIDIAN 1294 958 1094#3A JIC 94#1 98617 72/1524 7/2 1/7 | 15 NA JIC 89 #3A JIC 737341 3/1 | |
| 7/57 JIC. 95 # 3 84/4556 .4/11 | 35 | IC 95 434 | | JIC. 95 MAA 8 | 9/58 JIC. 94 #5 12/1646 | MERIDIAN * JIC. 94 #6A 23 | 9/56 14 JIC 89 #2 3/721 0/1 | |
| 9/76 JIC 95 #1A 1/1138 | JIC. 95 # 1 217/47 | 8/56 | 11/76 JIC. 95 # 8A 94/753 | 9/58 * JIC 95 #8 61/1046 0/1 | | 8/58 ** JIC 94 #4 25/560 0/.5 | | |
| 8/58 ". JIC. 95 #6 26/540 2 | JIC. 95#7A 146/1087 1/4 | Z | 6/58 JIC 95 #5 79/1833 1/11 | JIC. 96 #6A | 10/58 JIC. 94#7 26/971 | 4/82 JIC. 94 #8 94 21/181 21/181 | | |
| | 36 | MERIDIAN | | MERIDIAN 25 | | MERIDIAN 24 | 13 | |
| | JIC. 95 #7 21/295 0/.1 | 8/8 | | 10/56 * JIC. 95 #2 17/350 0/.1 | | | | |
| LEGEND COMPLET WELL MCF/D - C | | | <u> </u> | Z | <u>I</u> } → | | LOCATION UNIT SEC TWN: 2 RNG: 0 | NAME |
| LEGEND COMPLETION DATE WELL NAME MCF/D - CUM(MMCF) BOP/D - CUM(MBO) | | | | | | | 10 27N 03W | JICARILLA 94, 95 LSE. MESAVERDE |

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

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

MERIDIAN OIL

JICARILLA 98 AND 96 LEASE RIO ARRIBA COUNTY, NM MESA VERDE/PICTURED CLIFFS FORMATION



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 9**8** #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 efforts 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:

- Oil, condensate analysis
 - a. API gravity
 - b. Pour point
 - c. Cloud point
- 2. Water analysis
 - a. API water analysis
- 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

: 7.12 Resistivity 1.65 : 1.00 Sp. Gr. :

Cations

1601 mg/ l (calc.) Sodium & Potassium

Calcium

48 mg/ 1 5 mg/ 1 (calc.) Magnesium

Anions

2061 mg / 1 0 mg / 1 Chloride Sulfate 976 mg / 1 Bicarbonate

Total dissolved solids 4691

Mesa Verde produced water

6.52 3.70 Resistivity : 1.005 : Sp. Gr.

Cations

Sodium & Potassium 922 mg/ l (calc.) 40 mg/ 1 Calcium 5 mg/ 1 (calc.) Magnesium

Anions

1649 mg / 1 Chloride 0 mg / 1 850 mg / 1 Sulfate Bicarbonate

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 Pour point

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: | Para Calagan |
|----------|------|-----|--------------|
| | | | 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

| Company //PCD/// | |
|---|---------------------|
| Eield Legal Description Tab NR03 W. Sec 2 County or Parish Go Act | Date Samoleo 3/8/93 |
| | |
| Lease or Unit | water. 5/U |
| Type of Water (Produced, Supply, ect.) PRODUCED Sampling Point | Sampled By |
| DISSOLVED SOLIDS OTHER PROPERT | ries. |
| CATIONS mg/l me/l Specific Gravity, 60/60 F Sodium.Na | 75° - 1.65 |
| ANIONS Chloride, Ci Sulfate, \$04 Carbonate, CO ₂ Bicarbonate, HCO ₃ Hydroxide, OH Fotal Discived Solids (calc.) 491 Iron, Fe (total) Sulfide, as H ₂ S Remarks à Recommendations: | 29-1 |

Please reter any questions to: Loren Diege-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

| Company MERIDIA | API | WATER | ANALYSI Sampie No | S . <u>S11493</u> | ambied 3/8/93 |
|--|---------------------|------------|-------------------|-----------------------------|--|
| Company ///EKIDIA | 1/ <u>V</u> | Tay 11 Pag | ou) = macourer o | r Parisro La Antantiate | 11 M |
| Field | | | W Serzesuniy o | M . | |
| Lease or Unit | wer | 96 " 2 | Depth | ermation/////Vater | E/D |
| Type of Water (Produced.) | Suppry, ect.) PRODU | eeoSamolir | ng Point | Sample | d By |
| DISSOLVED SOLIDS | 5 | | OTHER | PROPERTIES | |
| CATIONS Sodium.Na Calcium. Ca Magnesium. Mg Banum. Ba | mg/l me/l /04 | | | conm-meren 44 3c | 652 1.002 2.7 |
| ANIONS Chloride, CI Sulfate, SO ₄ Carbonate, CC ₃ Bicarbonate, HCO ₃ Hydroxide, OH Total Discived Solids (calc.) Iron, Fe (total) Sulfide, as H ₂ S Remarks & Recommendation | | Ca. Mg | | PATTERNS-me/I | ┼┼┼┼┼ ₩so _t ┼┼┼┼₩ |
| | | <u> </u> | . . | ≟naivst | 51V) / |



The Western Company of North America

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

| COMPANY MERIT | DIAI) | API | WATER | ANA | Sample No | S | 3_Cate S | ambied <u>3/8/93</u> |
|--|--------------------|------------|-------------|------------------------------|----------------|----------------|---|---|
| Company //ERI | | Descriptio | n 726 NRO3W | .85C2 | County o | r Parising | Acac tate_ | OM |
| Lease or Unit | }ve | Me | 96#2 | Depth | = | ormation (C | WW .Vater. | |
| Type of Water (Produced. | Supply, ect.) | People | EDSampl | ung Point_ | | | Sample | a By |
| DISSOLVED SOLID | s | | | | OTHER | PROPE | ATIES | |
| CATIONS Sodium.Na | mg/I <u>922</u> | me/I | | | | iravity, 60/60 | | 7,29 1.005 2.2 |
| Calcium: Ca Magnesium: Mg Banum: Sa. | <u>-70</u> | <u> </u> | | | Total Hard | | | <u> 120.</u> |
| | | | | | | | | |
| ANIONS Chloride, Cl Sulfate, SO ₄ | 1649 | 46.5 | Na | 20 | WATER | PATTER | NS-me/l | |
| Carbonate. CC3 | | | na Co | | | | | -1-1-11 00- |
| Bicarbonate, HCO ₃ Hydroxics, OH | 850 | 14 | | | | | | +++++5O ₄ |
| | | | | | | | | |
| | | | file | 701111 1 101111 | LO | CARTHRADO | Man contra | THIII CI |
| Total Discived Solids (calc | :.) 2466 | | | | | | 111111111111111111111111111111111111111 | |
| iron, Feiristal) Sulfide, as H ₂ S | = | | Mg | ****** | H - 3111H - 31 | | | |
| Remarks & Recommendat | ions: | | | 0000 0000 0000 0000 | <u> </u> | - 2 | <u> </u> | 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| | | | | | | | Analyst: | |



Date 3/22/93 M13193

Rocky Mountain Region

THE WESTERN COMPANY

Oil Analysis

| Operator Meenian | Date Sampled |
|-----------------------------|--------------------------|
| Well Vic 96 #2 | Date Received MAR. 18/93 |
| Field | Submitted By |
| Formation MESA VERDE | Worked By DC |
| Depth | Sample Description |
| • | LICHT, AMBER LIQUID |
| | Cital, White Cital |
| State <i>N_M</i> | |
| | |
| API Gravity 58.2 ° at 60°F | |
| Paraffin Content% by weight | ght |
| Asphaltene Content% by | weight |
| Pour Point°F | |
| Cloud Point°F | |
| | |
| Comments: | |
| 568 @ 46° F | |

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 Pour point 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 3/22/93

Rocky Mountain Region

THE WESTERN COMPANY

Oil Analysis

| Operator MeriDIAN | Date Sampled 3/8/93 |
|-----------------------------------|-----------------------|
| Well < /10 98-5 | Date Received 3/19/93 |
| Field | Submitted By |
| Formation MESA VERDE | Worked By |
| Depth | Sample Description |
| | CLEAR LIQUID |
| State | |
| | |
| API Gravity <u>62.6</u> ° at 60°F | |
| Paraffin Content % by wei | ght |
| Asphaltene Content % by | weight |
| Pour Point°F | |
| Cloud Point°F | |
| | |
| Comments: | |

Analyst

61 @ 46°F



Date 3/24/93 M1 32 93

Rocky Mountain Region

THE WESTERN COMPANY

Oil Analysis

| .1 | 1 / |
|--|---------------------|
| Operator MERIDIAN | Date Sampled 3/8/93 |
| Well <u>le 98-5</u> | Date Received |
| Field | Submitted By |
| Formation MD/PC | Worked By |
| Depth | Sample Description |
| County Ro ARRIBA | BOTH CLEAR & LIGHT |
| State | |
| API Gravity 56.6° at 60°F Paraffin Content% by wei Asphaltene Content% by Pour Point°F Cloud Point°F | |
| COMMENTS: 60.5 @ 68°F CLAR UQUD - REMAWED C | LEAR C NO PRECIP. |



Date 3/22/93 M13495

Rocky Mountain Region

THE WESTERN COMPANY

Oil Analysis

| Operator MER DIAN | a ha |
|---------------------------|-----------------------|
| Operator //ER D/1/1/ | Date Sampled 3/8/93 |
| Well | Date Received 3/19/93 |
| Field | Submitted By |
| Formation PRTURED CUFFS | Worked By & |
| Depth | Sample Description |
| County PIO ARRIBA | CLEAR, LIGHT LOUID |
| State_NM | |
| | |
| API Gravity 61.3° at 60°F | |
| Paraffin Content% by weig | ght |
| Asphaltene Content | veight |
| Pour Point°F | |
| Cloud Point°F | |
| | |
| Comments: 59.9 @ 44 | |

Analyst //

MERIDIAN OIL

January 19, 1994

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

RE: Jicarilla 94 and 95 Lease

Jicarilla 94 #1A
Jicarilla 94 #5A
Jicarilla 94 #6A
Jicarilla 95 #3A
Jicarilla 95 #4A
Jicarilla 95 #5A
SE/4, Section 23, T27N, R03W
NW/4, Section 25, T27N, R03W
NW/4, Section 26, T27N, R03W
NW/4, Section 25, T27N, R03W
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

| BPA/rjp | |
|--------------|--|
| The above do | wnhole 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

Jicarilla 94 #1A
Jicarilla 94 #5A
Jicarilla 94 #6A
Jicarilla 95 #3A
Jicarilla 95 #4A
Jicarilla 95 #5A

SE/4, Section 23, T27N, R03W
SE/4, Section 27, T27N, R03W
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Sincerely,

Brian P. Ault

| BPA/rjp | |
|--|-----------|
| The above downhole commingling request is hereby | approved: |
| | |
| | |
| Date: | |



January 19, 1994

Merrion Oil & Gas Corp. 610 Reily Avenue Farmington, NM 87401

RE: Jicarilla 94 and 95 Lease

Jicarilla 94 #1A
Jicarilla 94 #5A
Jicarilla 94 #6A
Jicarilla 95 #3A
Jicarilla 95 #4A
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SE/4, Section 23, T27N, R03W
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Sincerely,

Brian P. Ault

| BPA/ŋp | |
|--|---|
| The above downhole commingling request is hereby approved: | |
| | |
| Date: | _ |



January 19, 1994

Dugan Production Corp. P.O. Box 420 Farmington, NM 87499-0420

RE:

Jicarilla 94 and 95 Lease

Jicarilla 94 #1A
Jicarilla 94 #5A
Jicarilla 94 #6A
Jicarilla 95 #3A
Jicarilla 95 #4A
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SE/4, Section 23, T27N, R03W
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Sincerely,

Brian P. Ault

| BPA/rjp | | | |
|----------------|-------------------|-------------------|-----------|
| The above dowr | nhole commingling | request is hereby | approved: |
| | | | |
| | | | |
| | | | |

MERIDIAN OIL

January 19, 1994

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

RE: Jic

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 |

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Brian P. Ault

| BPA/ŋp | |
|--------------|--|
| The above do | wnhole commingling request is hereby approved: |
| | |
| | Date: |