

| | | | | | |
|---------------|--------------|----------|--------------|----------|-------------------|
| DATE 10/16/02 | SUSPENSE N/A | ENGINEER | LOGGED IN MW | TYPE DHC | APP NO. 229036296 |
|---------------|--------------|----------|--------------|----------|-------------------|

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
 [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
 [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
 [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
 [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
 [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement
☒ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

[D] Other: Specify _____

OCT 16 2002

[2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or ☐ Does Not Apply

- [A] ☒ Working, Royalty or Overriding Royalty Interest Owners
- [B] ☐ Offset Operators, Leaseholders or Surface Owner
- [C] ☐ Application is One Which Requires Published Legal Notice
- [D] ☒ Notification 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,
- [F] ☐ Waivers are Attached

[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

George Sharpe
 Print or Type Name

George Sharpe
 Signature

Investment Mgr
 Title

10-14-02
 Date

gsharpe-merrion@cyberport.com
 e-mail Address

MERRION

OIL & GAS

October 14, 2002

Mr. William Jones
New Mexico Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, New Mexico 87505-4000

**Re: Application for Administrative Approval
Downhole Commingling
Basin Fruitland Coal Pool and Aztec Pictured Cliffs Pool
Katy Com #2 - API #30-045-30456
Section 26, T30N, R12W
San Juan County, New Mexico**

Dear Mr. Jones:

Merrion Oil & Gas (Merrion) requests administrative approval for downhole commingling of the Basin Fruitland Coal and the Aztec Pictured Cliffs Pools in the subject wellbore. The following information is provided in support of this application.

I. Proposed Spacing Units

Exhibit 1 is the C-102 plat for the Basin Fruitland Coal with a ± 320 acre spacing unit in the E/2 of Section 26. Exhibit 2 is the C-102 plat for the Aztec Pictured Cliffs Pool with a ± 160 acre spacing unit in the SE/4 of Section 26.

II. Justification

The well was drilled late last year and completed in the Pictured Cliffs (PC) formation. We have had problems keeping the well on due to sand flow back problems. We have recently gotten the wellbore stabilized and the well is currently making approximately 40 MCFD and 10 BWPD. The economics of the well can be significantly enhanced by adding the Fruitland Coal and commingling the two zones.

III. Allocation Methodology

Exhibit 3 shows the PC production from the Juhan #1, an offset Pictured Cliffs well while Exhibit 4 shows the production history of the PC State Com 24, an offset coal well. The production characteristics of the two wells are very similar. Therefore, Merrion proposes to obtain stabilized production tests on each zone separately and use a fixed percentage to allocate future production between the two zones. If subsequent data indicates the need, additional testing may be done in the future to adjust the allocation percentages.

IV. Reservoir Fluid Compatibility

The waters of the PC and Fruitland have been generally determined to be compatible across the basin based on other similar applications to the OCD.

V. Cross Flow Between Zones

The reservoir pressure of both zones is estimated to be 550 psig. Therefore, crossflow is not anticipated to be a problem.

VI. Well Ownership Notification

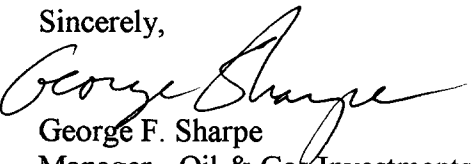
The spacing unit and ownership of the two zones are not the same. Exhibit 6 is a list of all working interest, override, and royalty interest owners in the well who received certified copies of this application.

VII. Summary

The current PC completion is marginally economic. Pending the approval by the NMOCD of 160 acre Fruitland Coal infills, Merrion would like to use this wellbore for a coal completion. Besides minimizing surface impact, commingling the zones will maximize reserves and protect correlative rights. Therefore, we request your approval of this application.

If you have questions or need additional information, please call me at (505) 327-9801, ext. 114.

Sincerely,


George F. Sharpe
Manager - Oil & Gas Investments

xc: Well Owners
Aztec OCD, BLM-Farmington

**Application of Merrion Oil & Gas
Downhole Commingling
Katy Com 2**

Objections to this application must be sent to the NMOCD within 20 days of receipt of this application. If you do not object, please sign and fax this waiver sheet to George Sharpe at (505) 326-5900.

WAIVER

_____ hereby waives objection to this application.
Company or Individual Name

Signature

Date

District I
1625 N. French Drive, Hobbs, NM 88240
District II
811 South First Street, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-107A
Revised May 15, 2000

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, New Mexico 87505

APPLICATION TYPE
☒ Single Well
☐ Establish Pre-Approved Pools
EXISTING WELLBORE
☒ Yes ☐ No

APPLICATION FOR DOWNHOLE COMMINGLING

MERRION OIL & GAS CORPORATION, 610 Reilly Avenue, Farmington, NM 87401-2634

Operator Address
KATY COM 2 P 26 30N 12W San Juan
Lease Well No. Unit Letter-Section-Township-Range County
OGRID No. 014634 Property Code 028016 API No. 30-045-30456 Lease Type: ☐ Federal ☐ State ☒ Fee ☒

| DATA ELEMENT | UPPER ZONE | INTERMEDIATE ZONE | LOWER ZONE |
|---|--|-------------------|--|
| Pool Name | Basin Fruitland Coal | | Aztec Pictured Cliffs |
| Pool Code | 71629 | | 71280 |
| Top and Bottom of Pay Section (Perforated or Open-Hole Interval) | 1820'-1840' | | 1855'-1858' |
| Method of Production (Flowing or Artificial Lift) | Flowing | | Flowing |
| Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone) | 550 psi | | 550 psi |
| Oil Gravity or Gas BTU (Degree API or Gas BTU) | BTU 1000 | | BTU 1100 |
| Producing, Shut-In or New Zone | Shut In - not completed yet | | Producing |
| Date 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: Rates: N/A | Date: Rates: | Date: Aug. 2002 Rates: 40 MCFD, 10 BWPD |
| Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.) | Oil Gas Will be provided after Fruitland Coal is completed % % | Oil Gas % % | Oil Gas % % |

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones? Yes ☐ No ☒
If not, have all working, royalty and overriding royalty interest owners been notified by certified mail? Yes ☒ No ☐
Are all produced fluids from all commingled zones compatible with each other? Yes ☒ No ☐
Will commingling decrease the value of production? Yes ☐ No ☒
If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands or the United States Bureau of Land Management been notified in writing of this application? Yes ☒ No ☐

NMOCD Reference Case No. applicable to this well: _____

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 working, royalty and overriding royalty interests for uncommon interest cases.
- Any additional statements, data or documents required to support commingling.

PRE-APPROVED POOLS

If application is to establish Pre-Approved Pools, the following additional information will be required:

- List of other orders approving downhole commingling within the proposed Pre-Approved Pools
- List of all operators within the proposed Pre-Approved Pools
- Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application.
- Bottomhole pressure data.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE George Sharpe TITLE Engineer DATE October 14, 2002
TYPE OR PRINT NAME George F. Sharpe TELEPHONE NO. (505) 327-9801 Ext. 114

District I

1625 N. French Dr., Hobbs, NM 88240

District II

811 South First, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources DepartmentOIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505Form C-102
Revised August 15, 2000Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

| | | |
|--|--|---|
| ¹ API Number 30-045-30456 | ² Pool Code 71629 | ³ Pool Name Basin Fruitland Coal |
| ⁴ Property Code 028016 | ⁵ Property Name KATY COM | ⁶ Well Number 2 |
| ⁷ OGRID No. 014634 | ⁸ Operator Name MERRION OIL & GAS CORPORATION | ⁹ Elevation 5686' |

¹⁰ Surface Location

| | | | | | | | | | |
|---------------------------|----------------------|------------------------|---------------------|------------------------|------------------------------|----------------------------------|------------------------------|-------------------------------|---------------------------|
| UL or lot no. p | Section 26 | Township 30N | Range 12W | Lot Idn SESE | Feet from the 1199 | North/South line South | Feet from the 1263 | East/West line East | County San Juan |
|---------------------------|----------------------|------------------------|---------------------|------------------------|------------------------------|----------------------------------|------------------------------|-------------------------------|---------------------------|

¹¹ Bottom Hole Location If Different From Surface

| | | | | | | | | | |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|

| | | | |
|--|---|--|---|
| ¹² Dedicated Acres 319.17 | ¹³ Joint or Infill Y | ¹⁴ Consolidation Code C | ¹⁵ Order No. COMMUNITIZATION IN PROGRESS |
|--|---|--|---|

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A
NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

| | |
|-------------------|---|
| ¹⁶ | ¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Signature George Sharpe Printed Name Engineer Title October 14, 2002 Date |
| | ¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date of Survey Signature and Seal of Professional Surveyor: Certificate Number |
| | FEE SF-068990 FEE 1263' 1199' FEE |

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505☐ AMENDED REPORT

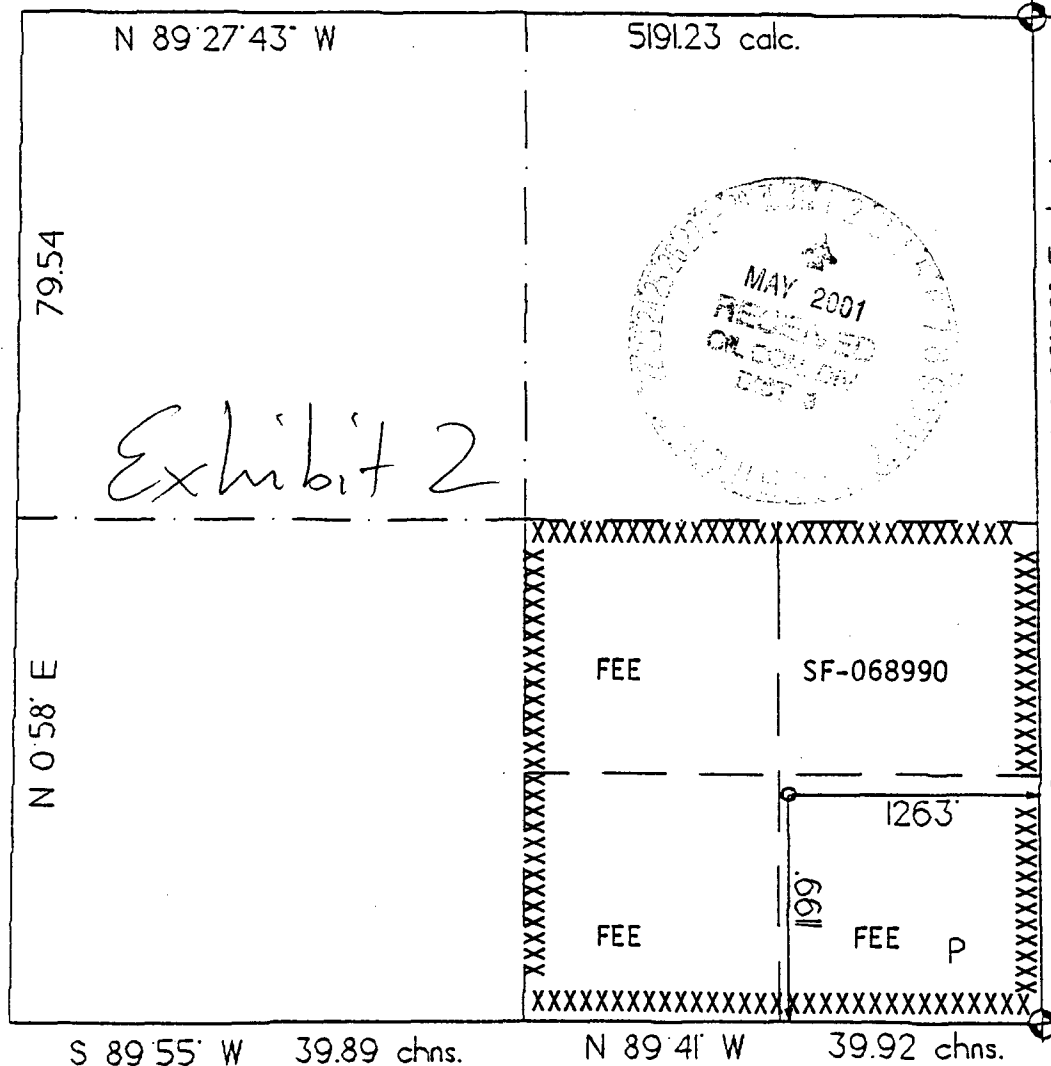
WELL LOCATION AND ACREAGE DEDICATION PLAT

| | | |
|---------------------------------|------------------------------------|------------------------------------|
| APA Number 30-045-30456 | Pool Code 71280 | Pool Name Aztec Pictured Cliffs |
| Property Code 025175 0280 16 | Property Name Katy Com | Well Number 2 |
| OGRI No. 014634 | Operator Name MERRION OIL & GAS | Elevation 5686' |

| Surface Location | | | | | | | | | |
|------------------|------|-------|-------|----------|-----------|-------------|-----------|-----------|----------|
| UL or Lot | Sec. | Twp. | Rge. | Lot Idn. | Feet from | North/South | Feet from | East/West | County |
| P | 26 | 30 N. | 12 W. | SESE | 1199' | SOUTH | 1263' | EAST | SAN JUAN |

| Bottom Hole Location If Different From Surface | | | | | | | | | |
|--|------|------|------|----------|-----------|-------------|-----------|-----------|--------|
| UL or Lot | Sec. | Twp. | Rge. | Lot Idn. | Feet from | North/South | Feet from | East/West | County |
| | | | | | | | | | |

| | | | |
|-------------------|--------------|--------------------|--|
| Dedication 160 | Joint ? Y | Consolidation C | Order No. Communitization in progress |
|-------------------|--------------|--------------------|--|

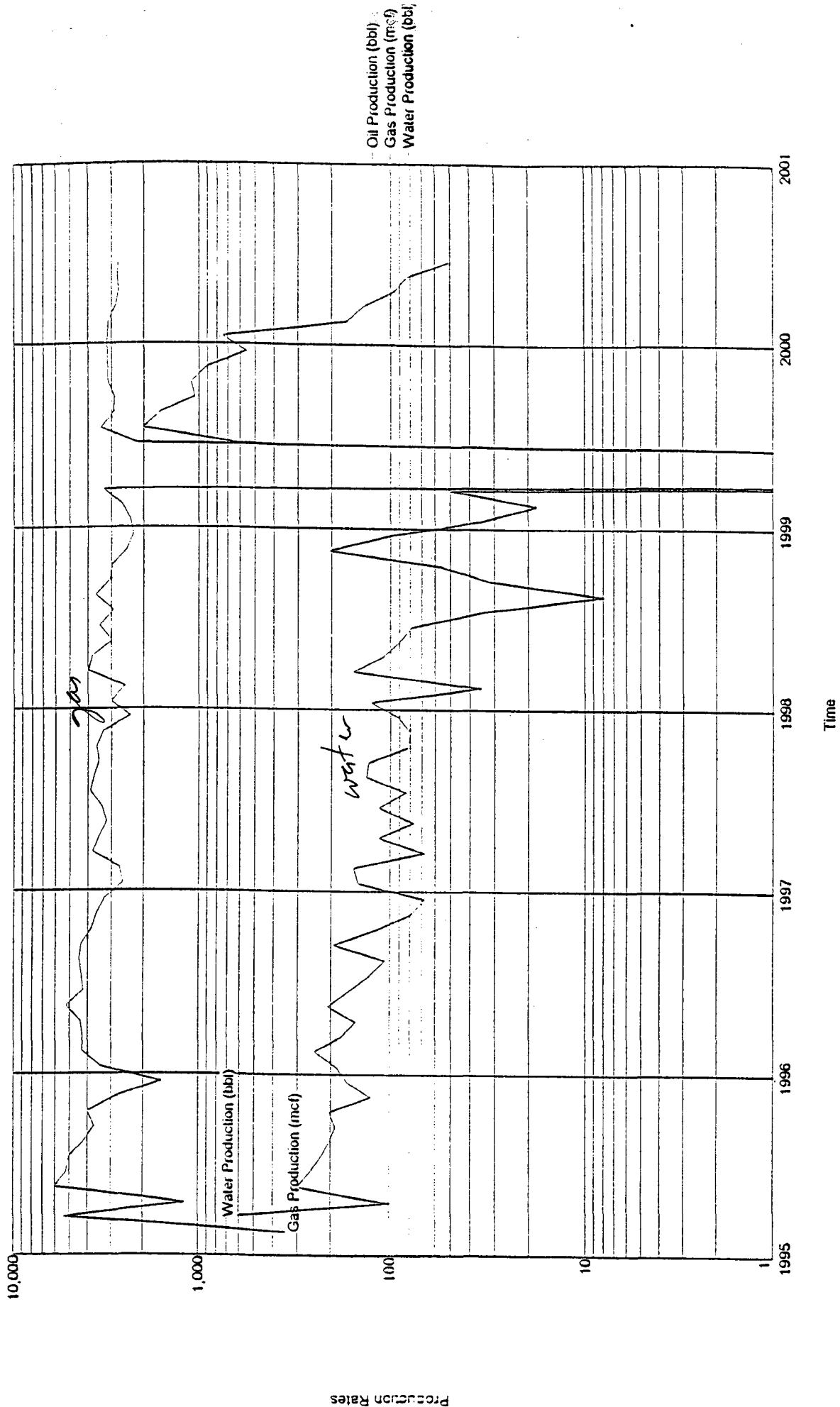
NO ALLOWABLE WILL ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

| | |
|--|--|
| OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Signature: <i>Steven S. Dunn</i> Printed Name: Steven S. Dunn Title: Drlg & Prod Manager Date: April 30, 2001 | |
| SURVEYOR CERTIFICATION I hereby certify that the well location on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date of Survey: 8 Nov 2000 Signature and Seal of Professional Surveyor: <i>Gerard G. Hampleston</i> 6844 REGISTERED LAND SURVEYOR | |

Lease Name: JUHAN
County, State: SAN JUAN, NM
Operator: BAYLESS ROBERT L PRODUCER LLC
Field: FULCHER KUTZ
Reservoir: PICTURED CLIFFS
Location: 29 30N 12W NE SW NE

EXHIBIT 3

JUHAN - 1 FULCHER KUTZ 29 30N 12W NE SW NE



ΣXH1BIT 4

Production Rates

Oil Production (bbbl)

Gas Production (mcf)

Water Production (bbbl)

Time

1992 1993 1994 1995 1996 1997 1998 1999 2000 2001

10,000

1,000

100

10

gas

water

Exhibit "5"
Katy Com 2 Commingling Application
Notification of Owners in Well

Working Interest Owners

Burlington Resources
P. O. Box 4289
Farmington, NM 87499

Robert L Bayless, Producer LLC
P. O. Box 168
Farmington, NM 87499

George G. Vaught, JR
P.O. Box 13557
Denver, CO 80201

Royalty Interest Owners

Minerals Management Service
Department of the Interior
P. O. Box 5640
Denver, CO 80217

Susan L. Pierce Nelson
4901 Crestwood Drive
Farmington, NM 87402

John B Pierce
325 S 400 W #57
Mt. Pleasant, UT 84647

Lance Reemtsma
2601 Grant St.
Berkeley, CA 94703

Dirk Reemtsma
556 Crestwood
Oceanside, CA 92054

Estate of G.T. McAlpin
Angela McAlpin, Ind. Executrix
P O Box 49
Cuero, TX 77954

Terry G & Veronica E Hood
P O Box 826
Aztec, NM 87410

FR Dickens & EM Dickens
P O Box 223
Aztec, NM 87410

Hazel B Peppin, Life Tenant
Diana L Peppin, Remainderman
3652 South 2210 East
Salt Lake City, UT 84109-4315

Margarete Lockley
C/O Barbara Modzelewskil
3113 Dryer St.
Las Cruces, NM 88011

Duff-Leach Family Trust
J. Dianne Duff Leach, Trustee
P.O. Box 30396
Albuquerque, NM 87190

T E Duff Trust, Ted E Duff Trustee
P.O. Box 398
Ruidoso, NM 88345

J. M. Dennis Trust
Don C. Dennis, Trustee
P O Box 1738
Lubbock, TX 79408

Estate of Kay Dennis
Don C. Dennis, Independent Executor
P O Box 1738
Lubbock, TX 79408

Overriding Interest Owners

XTO Energy Inc
135 S LaSalle St
Dept 4849
Chicago, IL 60674-4849

Weldon C, Ila Mae & Jonn W. Julander
Trustees UTA Of W C Julander Dtd 10/27/93
P O Box 2773
Littleton, CO 80161-2773

Burlington Resources
P. O. Box 4289
Farmington, NM 87499

Union Oil Company
Revenue Accounting
P.O. Box 841055
Dallas, TX 75284-1055

Cynthia Calvin
747 Newport Street
Denver, CO 80220

Edward M. Calvin
2380 Forest Street
Denver, CO 80207

Ben R. Howard
11490 Audelia Rd.
APT 215
Dallas, TX 75243

Sabine Royalty Trust
Bank of America - Escrow Agent
Lockbox 840887
Dallas, TX 75284-0887