

S. P. YATES CHAIRMAN OF THE BOARD

JOHN A. YATES PRESIDENT PEYTON YATES

RANDY G. PATTERSON SECRETARY

9 19

DENNIS G. KINSEY TREASURER

### 105 SOUTH FOURTH STREET

#### ARTESIA, NEW MEXICO 88210

TELEPHONE (505) 748-1471

August 15, 1991

New Mexico Energy, Minerals & Natural Resources Department Oil Conservation Division State Land Office Building P.O. Box 2088 Santa Fe, NM 87504

ATTN: Mr. William LeMay

Director

RE: Prickly Pear "AIE"

Fed. Com. #1 990'FSL & 990'FEL

P 23-20S-24E

Surface Commingling Lease Commingling Off-Lease Storage

Rule 303-B, 309-B, 309-C South Dagger Draw-Upper Pennsylvanian Pool Eddy County, New Mexico

Dear Mr. LeMay:

Yates Petroleum respectfully requests administrative approval to commingle production from seven wells drilled on two leases into a common tank battery and to permit the production from one lease to be transported prior to measurement to another lease for storage there on. proposed to commingle the production from the Hillview AHE Federal Com #2, the Hillview AHE Federal Com #3, the Hillview AHE Federal Com #4, the Hillview AHE Federal Com #5, the Hillview AHE Federal Com #6, the Hillview AHE Federal Com #10 and the Prickly Pear AIE Federal Com #1 into a common storage facility located on the Hillview AHE Federal Com #2 location. A map labeled Attachment I is enclosed for your information.

purpose of this off lease storage and commingling is to reduce operating costs for storage and treating and thereby extend the economic life of each well. Without approval for utilizing existing batteries on adjacent leases, it will become necessary to build separate facilities for each well. This will greatly increase costs and shorten the economic life of the well. Because working interests and royalty interests are different, each of the well's production will be metered separately prior to surface commingling. The production in all seven wells will be from the same producing zone which is the Lower Canyon Dolomite. In accordance with the referenced Rules 303-B, 309-B and 309-C, the following diagrams, maps and well data are submitted for your information.

Attachment II - A diagram of the proposed measurement equipment, separators and storage tanks in accordance with the "Manual for Installation and Operation of Commingling Facilities."

Attachment III - Plats of the leases showing the wells and the formations in which they are completed or are proposed to be completed.

Attachment IV - Notice to lease interest owners of the proposal to commingle production.

Attachment V - Oil analysis from Lower Canyon Formation.

Attachment VI - Notification to the Bureau of Land Management for proposed off-lease storage.

Yates Petroleum appreciates your cooperation in this matter. If you should need further information please contact me.

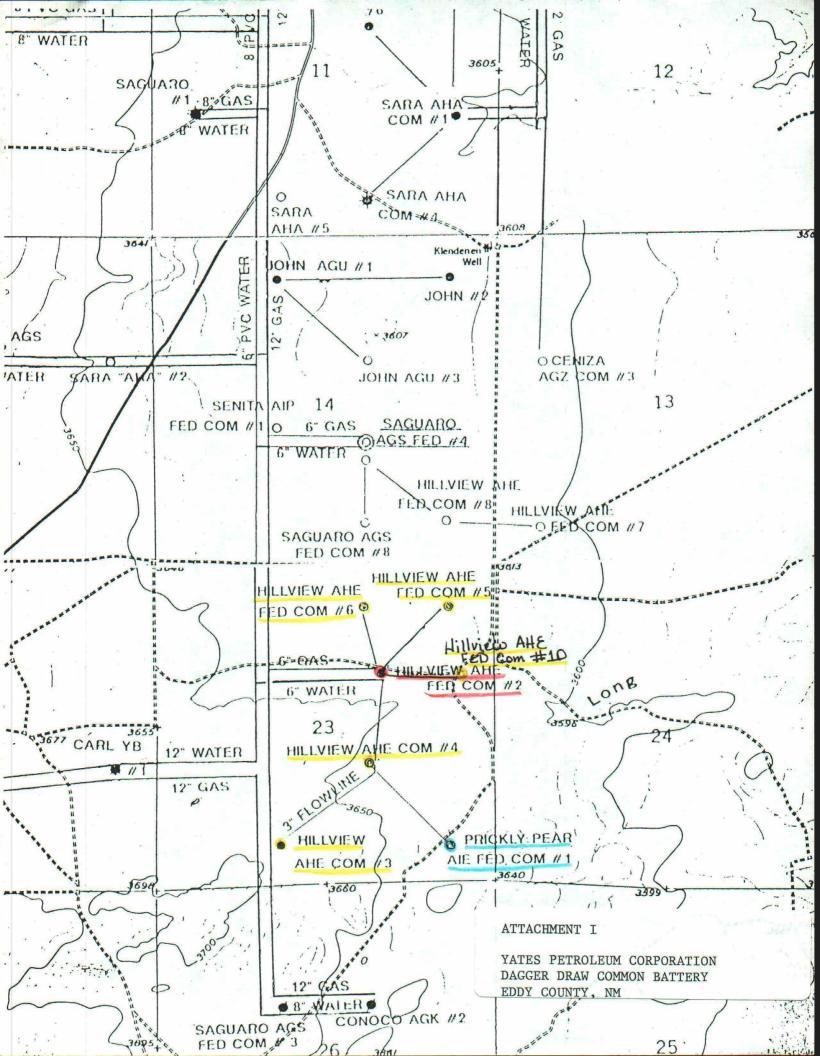
Sincerely,

Paul Ragsdale /

Petroleum Engineer

PR/th

Attachments



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## ATTACHMENT IV

Copy of Notification of Interest Owners



105 SOUTH FOURTH STREET ARTESIA, NEW MEXICO 88210

TELEPHONE (505) 748-1471

CHA RMAN OF THE BOARD

JOHN A. YATES
PRESIDENT
PEYTON YATES
EXECUTIVE VICE PRESIDENT
RANIDY G. PATTERSON
SECRETARY
DEINNIS G. KINSEY
TREASURER

S. P. YATES

August 15, 1991

Yates Petroleum Corporation 105 S. 4th Street Artesia, NM 88210

Dear Interest Owner,

Yates Petroleum is requesting your approval for off-lease storage and surface commingling of production from the following wells:

Hillview AHE Federal Com #2 Sec 23-T 20S-R 24E 1650 FNL and 1780 FEL

Hillview AHE Federal Com #3 Sec 23-T 20S-R 24E 660 FSL and 1980 FWL

Hillview AHE Federal Com #4 Sec 23-T 20S-R 24E 1980 FSL and 1980 FEL

Hillview AHE Federal Com #5 Sec 23-T 20S-R 24E 660 FNL and 660 FEL

Hillview AHE Federal Com #6 Sec 23-T 20S-R 24E 660 FNL and 1980 FEL

Hillview AHE Federal Com #10 Sec 23 -T 20S-R 24E 1730 FNL and 660 FEL

Prickly Pear AIE Fed. Com #1 Sec 23-T 20S-R 24E 990 FSL and 990 FEL

Because interests for the proposed wells are different from those from the lease where the proposed storage facilities are located, oil from each of the two wells will be measured by positive displacement, temperature compensated, metering equipment prior to surface commingling. Gas from the wells will also be metered separately. This metering will ensure that all production from each of the wells is equitably accounted for with no significant effect on your revenue.

We would appreciate your returning an approved copy of this letter to us by September 15, 1991 in the enclosed self-addressed envelope. If we do not hear from you by that date, we will assume that you have no objections to our proposal, and will request approval from the Bureau of Land Management and the New Mexico Oil Conservation Division for this proposed off-lease storage and surface commingling.

Yours\_very truly,

Paul Ragsdale

Petroleum Engineer

PR/th



# 105 SOUTH FOURTH STREET ARTESIA, NEW MEXICO 88210

TELEPHONE (505) 748-1471

SECRETARY DENNIS G. KINSEY TREASURER

S. P. YATES CHAIRMAN OF THE BOARD

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PRESIDENT

PEYTON YATES

EXECUTIVE VICE PRESIDENT RANDY G. PATTERSON

August 15, 1991

Yates Drilling Company 105 S. 4th Street Artesia, NM 88210

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Yours very truly,

Kaul Kagidale Paul Ragsdale

Petroleum Engineer

PR/th



105 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210

TELEPHONE (505) 748-1471

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August 15, 1991

Abo Petroleum 207 S. 4th Street Artesia, NM 88210

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Yours very truly,

Paul Ragsdale

Petroleum Engineer

PR/th



# 105 SOUTH FOURTH STREET ARTESIA, NEW MEXICO 88210

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SECRETARY
DENNIS G. KINSEY
TREASURER

S. P. YATES
CHAIRMAN OF THE BOARD

August 15, 1991

Myco Industries 207 S. 4th Street Artesia, NM 88210

Dear Interest Owner,

Yates Petroleum is requesting your approval for off-lease storage and surface commingling of production from the following wells:

Hillview AHE Federal Com #2 Sec 23-T 20S-R 24E 1650 FNL and 1780 FEL

Hillview AHE Federal Com #3 Sec 23-T 20S-R 24E 660 FSL and 1980 FWL

Hillview AHE Federal Com #4 Sec 23-T 20S-R 24E 1980 FSL and 1980 FEL

Hillview AHE Federal Com #5 Sec 23-T 20S-R 24E 660 FNL and 660 FEL

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Yours very truly,

Paul Ragsdale

Petroleum Engineer

PR/th



### CORE LABORATORIES

2001 Commerce Cove P.O. Box 4337 Midland, Texas 79704 (915) 694-7761

Page 1 of 17 File RFLM 90017 State CO #2

Date Sampled: December 1, 1989

#### FORMATION CHARACTERISTICS

Formation Name Canyon Date First Well Completed  $N/\Lambda$ Original Reservoir Pressure 3010 psig 0 7572 ft. Original Produced Gas/Liquid Ratio N/A SCF/Bbl Production Rate N/A Bbls/Day Separator Pressure and Temperature N/A psig N/A'F. Liquid Gravity at 60°F. N/A 'API Datum N/A ft. Subsea

#### WELL CHARACTERISTICS

Elevation 3618 ft. KB, 3605 ft. CL Total Depth 9427 ft. TD 8800 ft. PDTD Producing Interval 7751-7843 ft. Tubing Size and Depth 2 7/8 In. to 7699 ft. Open Flow Potential 409 BOPD, 817 MCFD, 979 DWPD Last Reservoir Pressure 2000 psig @ N/A ft. Date N/V130°F. 0 7565 ft. Reservoir Temperature Status of Well  $N \setminus V$ Pressure Gauge N/N

### SAMPLING CONDITIONS

Flowing Tubing Pressure 331 psig Flowing Bottom Hole Pressure 931 psig Primary Separator Pressure 67 psig Primary Separator Temperature 100°F. Secondary Separator Pressure 29 psig Secondary Separator Temperature 108 F. Field Stock Tank Liquid Gravity 44.5 API 0 60 F. Primary Separator Gas Production Rate 709.711 MSCF/Day Pressure Base 15.025 psia Temperature Base 60°F. Compressibility Factor (Fpv) 1.000 Gas Gravity (Laboratory)
Gas Gravity Factor (Fg) 0.737 1.000 Stock Tank Liquid Production Rate 0 60°F. 735.55 Bbls/Day Primary Separator Gas/Stock Tank Liquid Ratio 965 SCF/Bbl

Sampled by REMARKS:

Tefteller Inc.

YATES PETROLEUM CORPORATION
DAGGER DRAW COMMON BATTERY
EDDY COUNTY, NEW MEXICO



# 105 SOUTH FOURTH STREET ARTESIA, NEW MEXICO 88210

TELEPHONE (505) 748-1471

August 19, 1991

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SECRETARY
DENNIS G. KINSEY
THEASURER

ATTACHMENT VI

Bureau of Land Management P.O. Box 1778 Carlsbad, NM 88220

ATTN: Mr. Richard Manus Area Manager

RE: Prickly Pear "AIE" Fed. Com. #1 990'FSL & 990'FEL

P 23-20S-24E

Off Lease Storage & Surface Commingling South Dagger Draw - Upper Pennsylvanian Pool Eddy County, New Mexico

Dear Mr. Manus:

Yates Petroleum Corporation formally requests approval to commingle production on the surface from seven wells in the referenced South Dagger Draw Pool which would require offlease storage and off-lease measurement for two of the wells. A detailed explanation, including maps and diagrams is enclosed for your information.

The proposal is to build a battery on the location of the Hillview AHE Federal Com #2 located 1650 FNL and 1780 FEL of Section 23, Township 20 South, Range 24 East, (marked in red on Attachment 1), and then commingle the production from the Hillview AHE Federal Com #2, the Hillview AHE Federal Com #3, the Hillview AHE Federal Com #4, the Hillview AHE Federal Com #5, the Hillview AHE Federal Com #6, Hillview AHE Federal Com # 10 and the Prickly Pear AIE Federal Com #1 (marked in blue on Attachment I). the production will be commingled into a common battery, individual well's production will separately by positive displacement, temperature compensated metering equipment prior to commingling. This will ensure that all production from each well will be accounted for equitably. Attachment II is a diagram of the proposed metering facilities and the consolidated tank batteries, and identifies all equipment utilized.

Attachment III is a map showing the lease numbers and location of all leases and wells that will be connected to

the proposed off-lease facility. The communitized leases are outlined in red.

This proposal is a result of the continuous development of our leases in the Dagger Draw Pool. The purpose of the offlease storage and surface commingling is to reduce operating costs and capital costs for storage and thereby extend the economic life of the well. We anticipate that each of these wells will produce on a daily average basis 200-300 BOPD, 500-600 BWPD and 500-750 MCFD. The oil will be stored in tanks and then sold and pipelined to a refinery, the water will be gathered in the Yates Water Disposal System and eventually be injected into disposal wells, and the gas will be gathered into a gas gathering system and then sold. of these produced fluids will be metered before commingling. anticipated that by commingling production into consolidated battery a savings of \$50,000 per well will be realized.

Therefore, we respectfully request the approval to commingle these wells into a consolidated battery and utilize off-lease storage and measurement. If you need any further information please contact me.

Sincerely,

Paul Ragsdale

Petroleum Engineer

PR/th

Attachments