Release Date: Jep 7, 1887



POST OFFICE BOX 1206 JAL, NEW MEXICO 88252

August 14, 1987

505/395-3056

State of New Mexico Oil Conservation Division P.O. Box 2088 Santa Fe, New Mexico 87504-2088

ATTN: William J. Lemay Director

RE: Alpha Twenty-One Production Company

Blakemore Federal No. 1 D Sec. 20, T-9-S, R-26-E

Chaves County, New Mexico

#### Gentlemen:

Alpha Twenty-One Production Company requests administrative approval to downhole commingle the Abo and Wolfcamp zones in the above referenced well. Enclosed you will find a copy of form C-102, Form C-116, ownership map, and production history for the last twelve months.

Both zones are presently flowing dry gas, with no water or oil. The Abo is producing from perforations at 4198 to 4344 and has a calculated bottomhole pressure of 390 p.s.i. There is a production packer set at 5218 ft. The Wolfcamp is producing from perforations of 5334 to 5380 ft., with a bottomhole pressure of 395 p.s.i.

The daily average production from the Abo is 90MCFD after it is stabilized. The daily average production from the Wolfcamp is 16 MCFD after stabilized. The price we are receiving for both zones is the same. The gas is presently under contract with Transwestern Pipeline. We propose to use the following formula to allocate our production from each zone.

a) Wolfcamp daily production divided by the total daily gas production equals the percent to be allocated to the Wolfcamp.

Example: 16MCFD divided by 106MCFD equals 15 % of the total volume to be allocated to the Wolfcamp.

b) Abo daily production divided by the total daily gas production equals the percent to be allocated to the Abo. Example: 90MCFD divided by 106MCFD equals 85 % of the total volume to be allocated to the Abo.

Swarehif Wike Copeland
as per 9-14-87

Continued on page 2

Page 2
Application for downhole commingling

The United States Geoligical Survey was notified in writing of this application on August 10, 1987. The following offset operators were also notified in writing.

Pennzoil Company

Margene Blakemore Estate Trust

The following is a production history for each zone the last twelve months.

13.0	UCED
August 1986  September  392 MCF 18.0  October  276 MCF 18.8  November  538 MCF 16.0  December  455 MCF 18.0  54  November  December  455 MCF 18.0  55  65 MCF 11.75  4  November  538 MCF 16.0  111 MCF 15.8  7  December  455 MCF 18.0  65 MCF 11.75  4  November  529 MCF 88.0  85 MCF 11.76  66  February  1207 MCF 10.0  85 MCF 11.76  67  February  1207 MCF 10.0  120 MCF 11.8  120 MCF 11.8  121  April  April  784 MCF 52.0  97 MCF 11.8  122  May  325 MCF 15.0  42 MCF 8.4  15  June  695 MCF 57.7  110 MCF  121  July  Ave - 11.53  Ave - 11.53	<u> </u>

The specific gravity of the Abo gas is .644, and the mixture heating value is 1047. The specific gravity of the Wolfcamp gas is .624, and the mixture heating value is 1041.

If you desire anything further regarding this matter, please sontact the undersigned. Thanks for your kind consideration in this matter.

Sincerely,

Mike Copeland

Production Superintendent

Alpha Twenty-One Production Company

Copeland

cc: Alpha Twenty-One Production Company ATTN: Mr. Tom Phipps

## STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

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### OIL CONSERVATION DIVISION

### P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-102 Revised 10-1-

All distances must be from the outer boundaries of the Section. Well No. Operator f eogia Alpha Twenty-One Production Company Blakemore Federal 1 Unit Letter Section Township Ronge County 20 9 South 26 East D Chaves Actual Footage Location of Well: 660 feet from the NORTH 660 WEST Ground Level Elev. Pool Producing Formation Dedicated Acreage: 3743.6 SOUTH PECOS SLOPE Acre 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consol dated by communitization, unitization, force-pooling, etc? If enswer is "yes," type of consolidation \_\_\_\_ MYes No If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side this form if necessary.)\_ 'No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Divisic CERTIFICATION I hereby certify that the Information cor tained herein is true and complete to the best of my knowledge and belief. Mike Copeland Position Production Superintendent Company Alpha Twenty-One Prod. Co. 8/10/87 I hereby certify that the well locatio shown on this plot was plotted from fiel notes of actual surveys made by me s under my supervision, and that the sam is true and correct to the best of a knowledge and belief. Original June 13, Registered Professional Engineer and/or Land Surveyor Certificate No.

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## STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

# OIL CONSERVATION DIVISION P. O. BOX 2088

P. O. BOX 2088 SANTA FE, NEW MEXICO 87501 Form C-102 Revised 10-1-78

All distances must be from the outer boundaries of the Section. Operator Well No. Alpha Twenty-One Production Company Blakemore Federal Unit Letter Range Section Township County 9 South Chaves 26 East Actual Footage Location of Well: feet from the Nirth Ground Level Elev. Producing Formation Pool Dedicated Acreage: 3743.6 WOLFCAMP BITTERLAKES Acres 1. Outling the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling. etc? Yes ☐ No If answer is "yes," type of consolidation \_\_ If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)\_ 'No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Division. CERTIFICATION I hereby certify that the Information contained herein is true and complete to the best of my knowledge and belief. Name Mike Copeland Position Production Superintendent Alpha Twenty-One Prod. Co. 8/10/87 I hereby certify that the well location shown on this plat was platted 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 knowledge and belief. Date Surveyed Original June 13 Registered Professional Engineer and/or Land Surveyor Certificate No. 1500

# Alpha Twenty-One Production Company Blakemore Federal No. 1

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# SANTA FE, NEW MEXICO 87501

# GAS-OIL RATIO TESTS

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No well will be essigned an allowable greater than the amount of oil produced on the official test.

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Division.

will be 0.60. Cas volumes must be reported in MCF measured at a pressure base of 15.025 pain and a temperature of 60° F. Specific gravity base

Report casing pressure in lieu of tubing pressure for any well producing through casing.

Mail original and one copy of this report to the district office of the New Maxico Oli Conservation Division in accordance with Rule 301 and appropriate pool rules.

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

Mike Copeland

(Stenature)

Production Superintender

August 10 1987

# P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

Form C-116 Revised 10-1-78

# GAS-OIL RATIO TESTS

Operator			Peol	<u>ě</u>	:	1				Co	County					
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Report casing pressure in lieu of tubing pressure for any well producing through casing.

Mail original and one copy of this report to the district office of the New Maxico Oli Conservation Division in accordance with Rule 301 and appropriate pool rules.

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

(Signéture)

August 10, 1987 Production Superintendent (Tide)

(Date)

# WELL L ATION AND ACREAGE DEDICATION 1 AT ( ) Line Frede C-128



A. 01	A TWENTY-L	ON FAIL distances must be	r from the owner boundaries	of the Section.	
Boyd	Operating Co	ompany	Blakemore	Fed.	Well No.
Unit Letter D	Section.	Township 9 South	5 East	County	
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	l l l		 	Boy	d Operating Company 2/25/80
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# WELL L. ATION AND ACREAGE DEDICATION C. 1 CONTROL C-128

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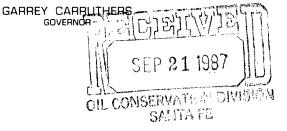
#### STATE OF NEW MEXICO

### **ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT**

OIL CONSERVATION DIVISION ARTESIA DISTRICT OFFICE

September 2, 1987

P.O, DRAWER DD ARTESIA, NEW MEXICO 88210 (505) 748-1283



Alpha Twenty One Prod. Co. P.O. Box 1206
Jal, New Mexico 88201

Re: Down-hole Commingling

Application

Blakemore Federal #1-D Sec. 20 Twn.9S Rge.26E

Attn.: Mike Copeland

Gentlemen:

We are in receipt of your letter to the Bureau of Land Management dated August 10, 1987, requesting authority to down-hole commingle the above captioned well.

Prior to approval from the State of New Mexico, Division Rule 303 C must be satisfied.

You are requested to submit to the appropriate offices so consideration can be given to your request.

If we can be of further service, please do not hesitate to call on us.

Yours very truly,

Les A. Clements

Supervisor District II

LAC/mm

cc David Catanach

Bureau of Land Management

### ITY ONE PRODUCTION COMPANY

POST OFFICE BOX 1206 JAL, NEW MEXICO 88252

affer a statistics

August 10, 1987

505/395-3056

United States Department of the Interior Geological Survey P.O. Box 1857

RE: Alpha Twenty-One Production Company

Roswell, New Mexico 88201

nm - 26069

AUG 25 '87

RECEIVED

Blakemore Federal No. 1,D Sec. 20,T-9-S, R-26-E Chaves County, New Mexico

ARRESIA, OFFICE

Gentlemen:

Enclosed for your review and approval is the original and one copy, of Alpha Twenty-One Production Company's intent to downhole commingle the Abo and Wolfcamp zones in the above referenced well.

Neither of the zones produce any water or oil at this time. The bottomhole pressure in the Wolfcamp zone is 395 p.s.i.q., and the calculated bottomhole pressure in the Abo zone is 390 p.s.i.g. We propose the following formula to calculate the allocation for each zone.

- a) Wolfcamp daily production divided by the total gas production equals % of gas per day allocated to the Wolfcamp Formation. Example: 16MCFD divided by 106MCFD equals 15% of the total MCFD allocated to the Wolfcamp.
- b) Abo daily production divided by the total gas production equals % of gas per day allocated to the Abo Formation. Example: 90MCFD divided by 106MCFD equals 85% of the total MCFD allocated to the Abo.

If you desire any further information please contact me.

Sincerely,

Mike Copeland

Production Superintendent

APPROVED PETER W. CHESTER

AUG 19 1987

BUREAU OF LAND MANAGEMENT ROSWELL RESOURCE AREA

SUBJECT TO LIKE APPROVAL BY STATE

AUG 1 3 1987

OWELL, NEW

cc: Alpha Twenty-One Production Company 200 West Illinois, Suite 200

Midland, Texas 79701

ATTN: Mr. Tom Phipps