

87501

NFL 78

DIVISION DIRECTOR EXAMINER

OIL CONSERVATION DIVISION
P. O. Box 2088
SANTA FE, NEW MEXICO
87501

ADMINISTRATIVE ORDER
NFL 78

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

INFILL DRILLING FINDINGS PURSUANT TO
SECTION 271.305(b) OF THE FEDERAL ENERGY REGULATORY
COMMISSION REGULATIONS, NATURAL GAS POLICY ACT OF 1978
AND OIL CONSERVATION DIVISION ORDER NO. R-6013-A

I.

Operator Alpha Twenty-One Production Co. Well Name and No. JO Well No. 1
Location: Unit N Sec. 6 Twp. 19 South Rng. 37 East Cty. Lea

II.

THE DIVISION FINDS:

- (1) That Section 271.305(b) of the Federal Energy Regulatory Commission Regulations promulgated pursuant to the Natural Gas Policy Act of 1978 provides that, in order for an infill well to qualify as a new onshore production well under Section 103 of said Act, the Division must find that the infill well is necessary to effectively and efficiently drain a portion of the reservoir covered by the proration unit which cannot be so drained by any existing well within that unit.
- (2) That by Order No. R-6013-A, dated February 8, 1980, the Division established an administrative procedure whereby the Division Director and the Division Examiners are empowered to act for the Division and find that an infill well is necessary.
- (3) That the well for which a finding is sought is completed in the Eument Gas Pool, and the standard spacing unit in said pool is 640 acres.
- (4) That a 160-acre proration unit comprising the SW 1/4 of Sec. 6, Twp. 19 South, Rng. 37 East, is currently dedicated to the Conoco Inc.; State A-6 Well No. 1 located in Unit M of said section.
- (5) That this proration unit is () standard (X) nonstandard; if nonstandard, said unit was previously approved by Order No. R-520.
- (6) That said proration unit is not being effectively and efficiently drained by the existing well(s) on the unit.
- (7) That the drilling and completion of the well for which a finding is sought should result in the production of an additional 750,000 MCF of gas from the proration unit which would not otherwise be recovered.
- (8) That all the requirements of Order No. R-6013-A have been complied with, and that the well for which a finding is sought is necessary to effectively and efficiently drain a portion of the reservoir covered by said proration unit which cannot be so drained by any existing well within the unit.
- (9) That in order to permit effective and efficient drainage of said proration unit, the subject application should be approved.

IT IS THEREFORE ORDERED:

- (1) That the applicant is hereby authorized to drill the well described in Section I above as an infill well on the existing proration unit described in Section II(4) above. The authorization for infill drilling granted by this order is necessary to permit the drainage of a portion of the reservoir covered by said proration unit which cannot be effectively and efficiently drained by any existing well thereon.
- (2) That jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on this _____ day of _____, 19____.

cc - Old Mills

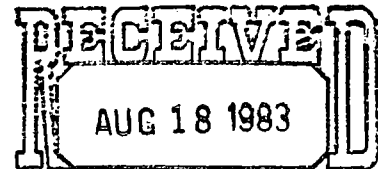
DIVISION DIRECTOR _____ EXAMINER _____



ALPHA TWENTY-ONE PRODUCTION COMPANY

2100 FIRST NATIONAL BANK BUILDING
MIDLAND, TEXAS 79701

August 15, 1983



915/683-5384

OIL CONSERVATION DIVISION
SANTA FE

Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

Attention: Michael E. Stogner

Re: Additional Information
on NGPA Infill Well Application
Jo No. 1
N-6-T 19S, R37E, Lea County,
New Mexico

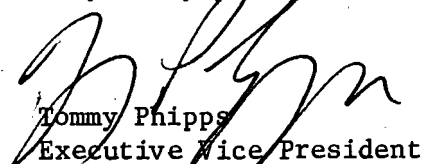
Gentlemen:

Enclosed as requested are the following:

1. Revised Geological Report and
Structure Map as required by Rule 9.
2. Copy of Notification Letter to offset
operators showing that notification has
been given.

If further information is required, please contact me.

Very truly yours,

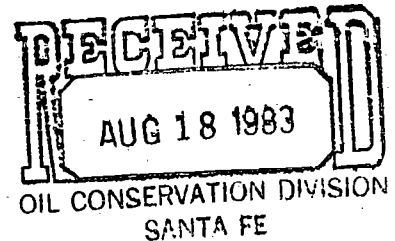

Tommy Phipps
Executive Vice President

TP:rm

Enclosures

August 11, 1983

Robert H. Strand
Atwood, Malone, Mann and Cooter
P.O. Drawer 700
Roswell, New Mexico 88201



RE: Drainage - SW 1/4, Section 6
T-19-S, R-37-E, Lea County,
New Mexico

Dear Mr. Strand,

You have requested my geological opinion regarding gas drainage from the Eumont Gas Pool of the referenced acreage.

It is my opinion that the 160 acre Eumont Gas proration unit in the SW1/4 Section 6, T-19-S, R-37-E, Lea County, New Mexico has not been adequately drained by the Conoco State A #6 for the following reasons:

- a. The producing sands are several and dispersed over approximately an 1100 foot interval. These sands are lenticular and the porosity and permeability of the producing zones vary considerably.
- b. The Conoco State A #6 had a significantly lower cumulative production, 1020 MMCFG, at temporary abandonment than the offset wells. The east offset, Texaco State C #1 had a cumulative on January 1, 1982 of 4059 MMCFG and was still producing. Shells State #1, south offset has a cumulative and 2457 MMCFG on January 1, 1982 and was still producing.
- c. The SITP on the Alpha Jo #1 was 180 psi on March 16, 1983, indicating a reservoir capable of sustained gas production.
- d. Monthly production from the Alpha Jo #1 will be approximately 6 MMCFG as of this date.
- e. Estimated additional recoverable reserves are 750 MMCFG.
- f. Attached is a formation structure map.

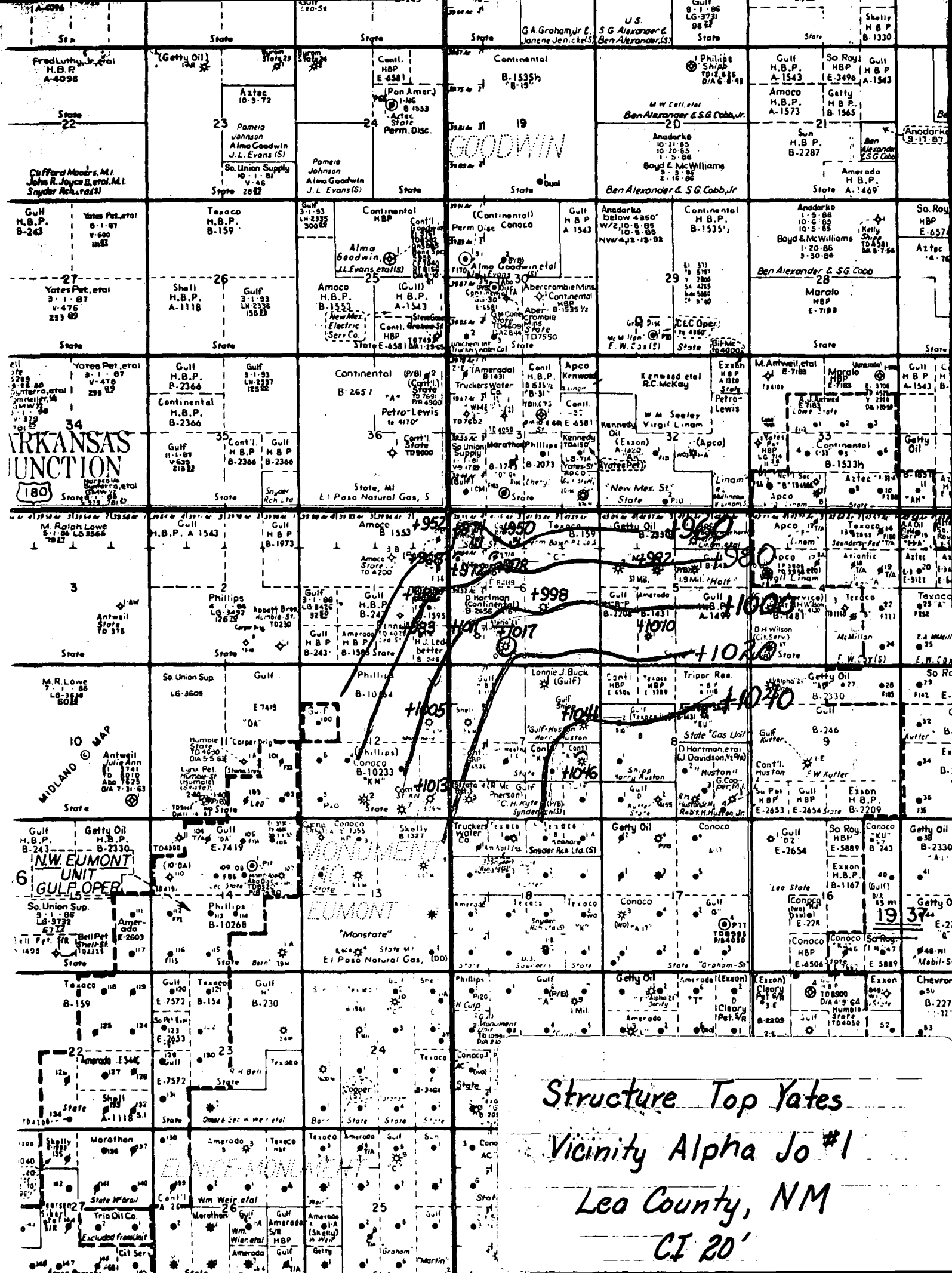
If I can be of further assistance in this matter, please contact me.

Yours very truly,

A handwritten signature in dark ink, appearing to read "Jack D. Mussett", written over a horizontal line.

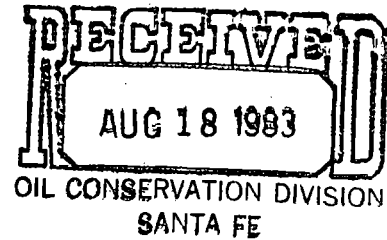
Jack D. Mussett

cc: Mr. Tommy Phipps
Alpha Twenty-One Production Company
2100 First National Bank Building
Midland, TX 79701



August 11, 1983

Robert H. Strand
Atwood, Malone, Mann and Cooter
P.O. Drawer 700
Roswell, New Mexico 88201



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T-19-S, R-37-E, Lea County,
New Mexico

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- a. The producing sands are several and dispersed over approximately an 1100 foot interval. These sands are lenticular and the porosity and permeability of the producing zones vary considerably.
- b. The Conoco State A #6 had a significantly lower cumulative production, 1020 MMCFG, at temporary abandonment than the offset wells. The east offset, Texaco State C #1 had a cumulative on January 1, 1982 of 4059 MMCFG and was still producing. Shells State #1, south offset has a cumulative and 2457 MMCFG on January 1, 1982 and was still producing.
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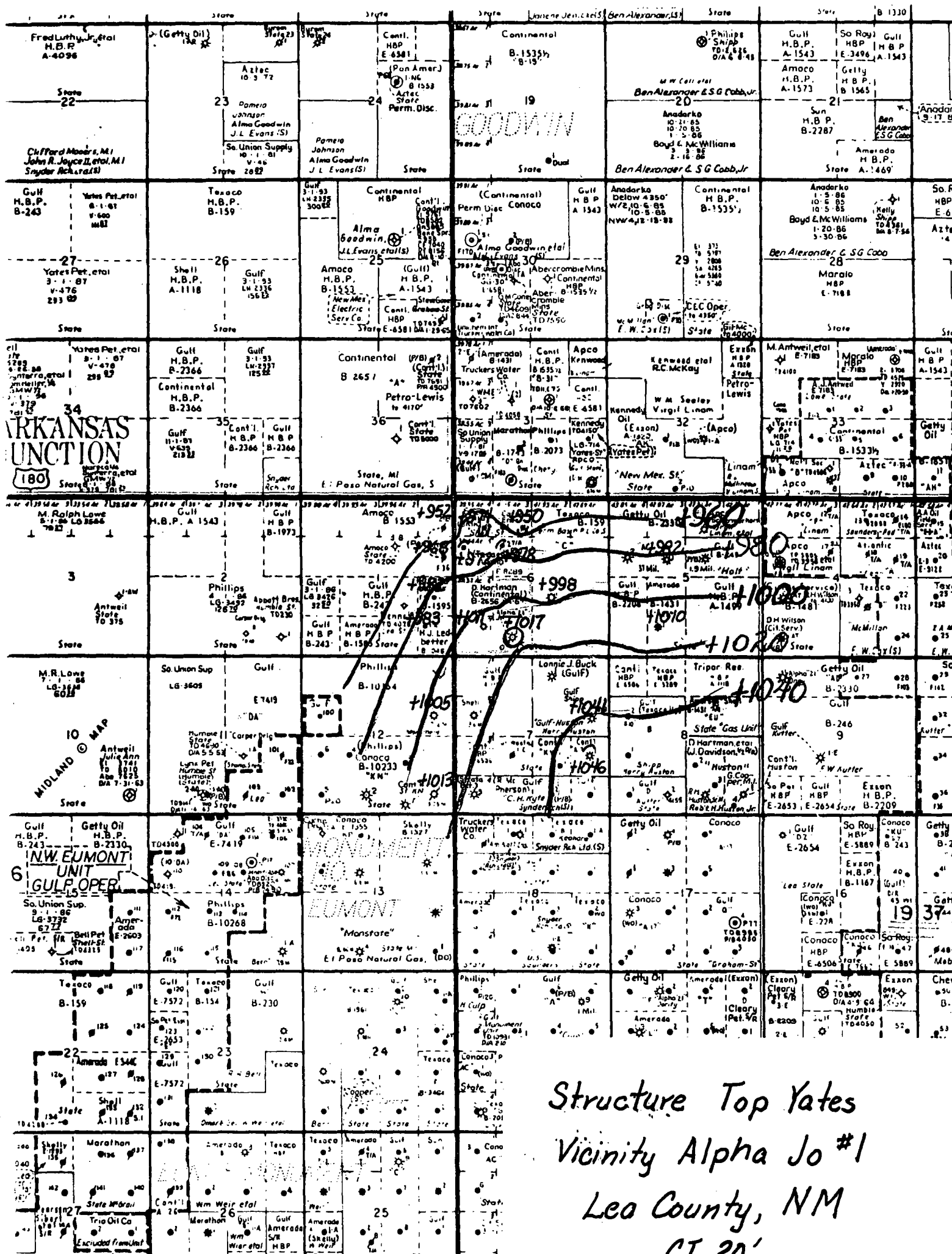
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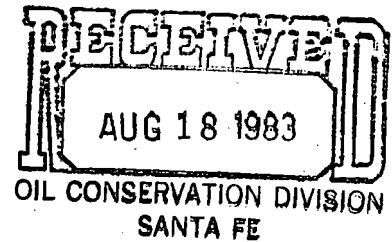
A handwritten signature in dark ink, appearing to read "Jack D. Mussett", written over a horizontal line.

Jack D. Mussett

cc: Mr. Tommy Phipps
Alpha Twenty-One Production Company
2100 First National Bank Building
Midland, TX 79701



Structure Top Yates
Vicinity Alpha Jo #1
Leo County, NM
CI 20'



ALPHA TWENTY-ONE PRODUCTION COMPANY

2100 FIRST NATIONAL BANK BUILDING
MIDLAND, TEXAS 79701

915/683-5384

August 15, 1983

Amoco Production and Exploration Company
P. O. Box 68
Hobbs, New Mexico 88240
Attn: Pete McRae

Conoco, Incorporated
P. O. Box 460
Hobbs, New Mexico 88240
Attn: Mark Mosley

Apollo Energy, Incorporated
P. O. Box 5315
Hobbs, New Mexico 88241
Attn: My Merchant

Gulf Oil Corporation
P. O. Box 670
Hobbs, New Mexico 88240
Attn: R. D. Pitre

Lonnie J. Buck
P. O. Box 129
Hobbs, New Mexico 88240
Attn: JoeBuck

Herman J. Ledbetter
P. O. Box 5879
Abilene, Texas 79608
Attn: Herman J. Ledbetter

Carbon Energy
P. O. Box 129
Hobbs, New Mexico 88240
Attn: Joe Buck

Texaco Incorporated
P. O. Box 728
Hobbs, New Mexico 88240
Attn: John V. Gannon

Re: Infill Drilling Order
Jo No. 1
1944' FWL, 660' FSL,
Section 6, T19S, R37E,
Lea County, New Mexico
Proration Unit - SW/4

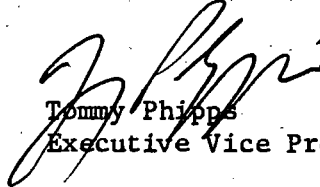
Gentlemen:

This letter along with its enclosures constitutes formal notification to offset operators of Alpha Twenty-One Production Company's application with the Oil Conservation Division for administrative approval of infill drilling order on the captioned well.

Infill Drilling Order
Jo No. 1
Page 2

If you have any questions, please contact me.

Very truly yours,



Tommy Phipps
Executive Vice President

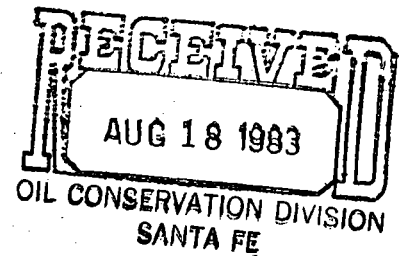
TP:rm

Enclosures: Infill Drilling Order Request
Geological Report
Structure Map

Certified - Return Receipt Requested

cc: Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

Attention: Michael E. Stogner



ALPHA TWENTY-ONE PRODUCTION COMPANY

2100 FIRST NATIONAL BANK BUILDING
MIDLAND, TEXAS 79701

915/683-5384

August 15, 1983

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Texaco Incorporated
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Hobbs, New Mexico 88240
Attn: John V. Gannon

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Jo No. 1
1944' FWL, 660' FSL,
Section 6, T19S, R37E,
Lea County, New Mexico
Proration Unit - SW/4

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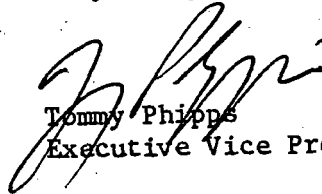
Infill Drilling Order

Jo No. 1

Page 2

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Tommy Phipps
Executive Vice President

TP:rm

Enclosures: Infill Drilling Order Request
Geological Report
Structure Map

Certified - Return Receipt Requested

cc: Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

Attention: Michael E. Stogner



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

TONY ANAYA
GOVERNOR

August 4, 1983

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-5800

Atwood, Malone, Mann & Cooter
P.O. Drawer 700
Security National Bank Bldg.
Roswell, NM 88201

Attn: Robert H. Strand

Re: Application for NGPA Infill Well
Findings Under Provisions of
Order No. R-6013-A Alpha Twenty-one
Production Company, Jo Well No. 1,
N-6-T-19S, R-37E, Lea County, NM

Dear Mr. Strand:

We may not process the subject application for infill findings until the required information, forms, or plats checked on the reverse side of this letter are submitted.

Sincerely,

Michael E. Stogner,
Petroleum Engineer

MES/dp

- ☐ A copy of Form C-101 must be submitted.
- ☐ A copy of Form C-102 must be submitted.
- ☐ The pool name must be shown.
- ☐ The standard spacing unit size for the pool must be shown.
- ☐ Give the Division Order No. which granted the non-standard proration unit.
- ☐ Please state whether or not the well has been spudded and give the spud date, if any.
- ☐ Information relative to other wells on the proration unit is incomplete.

- ☒ The geologic and reservoir data is incomplete or insufficient.

See Rule 9 (Attached)

- ☒ Other:

See Rule 11 (Attached)

SPECIAL RULES AND REGULATIONS
NATURAL GAS POLICY ACT INFILL FINDINGS
ADMINISTRATIVE PROCEDURE
(Amended February 8, 1980)

A. DEFINITIONS

RULE 1. For purposes of this administrative procedure only, the following definitions are adopted:

- a. Infill well: An additional well which has been drilled for production on an established proration unit.

B. APPLICABILITY

RULE 2. These special rules and regulations shall apply to effective and efficient drainage findings for completed infill wells pursuant to Section 271.303 of the final Rules and Regulations of the Federal Energy Regulatory Commission relating to Section 103 of the Natural Gas Policy Act of 1978. (These special rules and regulations do not apply to infill wells drilled in the Blanco Mesaverde or Basin-Dakota Pools. Infill wells in these two pools are covered by Rule 15 B of the "Special Rules for Applications for Wellhead Price Ceiling Category Determinations" promulgated by Division Order No. R-5878 as amended by Order No. R-5878-A.)

C. JUSTIFICATION FOR FINDINGS

RULE 3. The Division Director or a Division Examiner may find that an infill well is necessary:

- a. upon a showing by the operator that an additional well is needed to effectively and efficiently drain a portion of the reservoir covered by the proration unit which cannot be so drained by any existing well within that unit, and
- b. upon receipt of waivers from all offset operators, or if no offset operator has entered an objection to the infill finding within 20 days after receipt of the application by the Director.

RULE 4. The Director may set any application for hearing at his discretion or at the request of an applicant.

Exhibit A
Order R-6013-A

D. FILING REQUIREMENTS

RULE 5. Each applicant shall submit a copy of the approved Form C-101 for the infill well and Form C-102 showing the proration unit dedicated.

RULE 6. Applicant shall give the name of the pool in which the infill well has been drilled and the standard spacing unit size therefor.

RULE 7. If applicable, the applicant shall give the number of the Division order approving the non-standard proration unit dedicated to the well.

RULE 8. The applicant shall submit a description of all wells drilled on the proration unit (including the completed infill well) which are or have been completed in the same pool or reservoir as the proposed infill well showing:

- a. lease name and well location;
- b. spud date;
- c. completion date;
- d. a description of any mechanical problems experienced along with a summary of remedial action(s) taken and the results obtained;
- e. the current rate of production/ and
- f. date of plug and abandonment, if any;
- g. a clear and concise statement indicating why the existing well(s) on the proration cannot effectively and efficiently drain the portion of the reservoir covered by the proration unit.

RULE 9. The applicant shall submit geological and engineering information sufficient to support a finding as to the necessity for an infill well including:

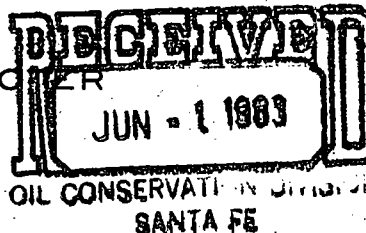
- a. formation structure map
- b. the volume of increased ultimate recovery expected to be obtained and a narrative describing how the increase was determined
- c. any other supporting data which the applicant deems to be relevant which may include:
 - (1) porosity and permeability factors
 - (2) production/pressure decline curves
 - (3) effects of secondary recovery or pressure maintenance operations.

RULE 10. Applications for infill findings shall be filed in duplicate with the Santa Fe office of the Division.

RULE 11. All operators of proration or spacing units offsetting the unit for which an infill finding is sought shall be notified of the application by certified or registered mail, and the application shall state that such notification has been given.

ATWOOD, MALONE, MANN & COOPER
A PROFESSIONAL ASSOCIATION
LAWYERS

JEFF D. ATWOOD [1883-1960]
ROSS L. MALONE [1910-1974]



P. O. DRAWER 700
SECURITY NATIONAL BANK BUILDING
ROSWELL, NEW MEXICO 88201
[505] 622-6221

CHARLES F. MALONE
RUSSELL D. MANN, P. A.
PAUL A. COOTER
BOB F. TURNER
JOHN W. BASSETT
ROBERT E. SABIN
BRIAN W. COPPLE
ROBERT H. STRAND
STEVEN L. BELL

WILLIAM P. LYNCH
RODNEY M. SCHUMACHER
R. TRACY SPROULS
FREDDIE J. ROMERO
GEORGE D. GIDDENS, JR.

May 26, 1983

State of New Mexico
Department of Energy
Oil Conservation Division
Post Office Box 2088
Santa Fe, New Mexico 87501

ATTN: Mr. Mike Stogner

Gentlemen:

On May 4, 1983, I sent the enclosed Application to your office, to the attention of Mr. Perry Pierce, and in checking today, it appears the Application was lost in the mail and never received in Santa Fe.

I am enclosing a new original and one copy of the Application, and would appreciate your earliest attention to this matter. The Jo #1 Well, which is the subject of the Application, is producing, and we need to file our Natural Gas Policy Act Ceiling Price Application in order to begin collecting the Section 103 ceiling price.

If you have any questions, please call me.

Yours truly,

A handwritten signature in cursive script, appearing to read "Robert H. Strand".

Robert H. Strand

RHS/bjt
encls

ATWOOD, MALONE, MANN & COOTER

A PROFESSIONAL ASSOCIATION
LAWYERS

JEFF D. ATWOOD [1883-1960]
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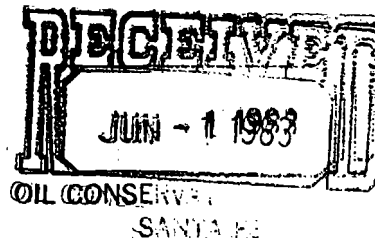
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GEORGE D. GIDDENS, JR.

May 4, 1983

State of New Mexico
Department of Energy
Oil Conservation Division
Post Office Box 2088
Santa Fe, New Mexico 87501



ATTN: Mr. Perry Pierce

Re: Application for Infill Drilling Order
Township 19 South, Range 37 East, NMPM
Section 6: SW/4
Lea County, New Mexico
Eumont Gas Pool

Gentlemen:

On behalf of Alpha Twenty-One Production Company, this letter shall constitute our application for an administrative order of the Division finding that an additional well is necessary to effectively drain the Eumont Gas Proration Unit assigned to the SW/4 of Section 6, T-19S, R-37E, NMPM, Lea County, New Mexico.

Continental Oil Company, on September 2, 1954, completed its Conoco State A #6 well in the Eumont Gas Pool at a location in Unit M, 990 FSL and 990 FWL of said Section 6. This well was produced until November 1982, when it was temporarily abandoned, and it has remained in such status to the present time.

Under the terms of a Farmout Agreement with Conoco, Inc., Alpha Twenty-One Production Company, as Operator, has recently drilled and completed its Jo #1 well in the Eumont Gas Pool at a location in Unit N, 1944 FWL and 660 FSL of Section 6. The Jo #1 well was completed on March 14, 1983, and is currently producing, with the gas being sold to El Paso Natural Gas Company. A copy of the completion report for the Jo #1 well is attached hereto.

As noted above, the Conoco A #6 well has been abandoned for some 11 years, and we are attaching hereto a

May 4, 1983

geological report relating to inability of the Conoco A #6 well to effectively drain the entire Eumont Proration Unit assigned thereto, consisting of the SW/4 of Section 6.

Based on the above, and for purposes of filing a Natural Gas Policy Act Ceiling Price Application for the Jo #1 well, and pursuant to division rule 16A 3. and 6a and 18 CFR 271.305, we are requesting the division to enter its administrative order authorizing the drilling of the Jo #1 well as an infill well, and finding that such well is necessary effectively drain all or a portion of the Eumont reservoir under the SW/4 of Section 6, which cannot be effectively and efficiently drained by the abandoned Conoco A #6 well.

Respectfully submitted,

Atwood, Malone, Mann & Cooter, P.A.

By: 

Attorneys for Applicant

RHS/bjt

xc: Mr. Tommy Phipps, Executive Vice President
Alpha Twenty-One Production Company
2100 First National Bank Building
Midland, Texas 79701

STATE OF NEW MEXICO
LAND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

NO. OF COPIES RECEIVED	
DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

TYPE OF WELL

OIL WELL ☐GAS WELL ☒DRY ☐

OTHER

TYPE OF COMPLETION

NEW WELL ☒WORK OVER ☐DEEPEN ☐PLUG BACK ☐DIFF. RESVR. ☐

OTHER

Name of Operator

Alpha Twenty-One Production Company

Address of Operator

P.O. Box 1206, Jal, NM 88252

Location of Well

IT LIES IN N LOCATED 1944 FEET FROM THE West

OIL CONSE

South LINE OF SEC. 6 TWP. 19-S RGE. 37-EDate Spudded
1-7-8316. Date T.D. Reached
1-16-8317. Date Compl. (Ready to Prod.)
3-14-8318. Elevations (DF, RKB, RT, GR, etc.)
3717.4 GL

19. Elev. Casinghead

Total Depth
395021. Plug Back T.D.
3939

22. If Multiple Compl., How Many

23. Interval Drilled By Rotary Tools
3950

Cable Tools

Producing Interval(s), of this completion. — Top, Bottom, Name

3755 - 3813 (Queen)

25. Was Directional Survey Made

Yes

Type Electric and Other Logs Run
CDN, FORXO27. Was Well Cored
No

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
12-3/4"	30	30'	15"	Redimix to surface	
8-5/8"	23	422.11'	12-1/4"	250 sx Cl.C, CACL. Circ.	
5-1/2"	14	3942.73'	7-7/8"	450 sx Hal/Lite, 325 sx 50/50 Poz C. Circ.	

LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

30. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
<u>2-3/8"</u>	<u>3809.27'</u>	<u>non3</u>

Perforation Record (Interval, size and number)

3755, 3759, 3764, 3768, 3769, 3770, 3771,
3772, 3774, 3807, 3808, 3809, 3810, 3812,
3813 (15 Dia) 15 Perfs

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
3755 - 3813	2 1/2 bbls + 3900 gals 15% mud acid
3755 - 3813	50000 gals frac fluid with 1000 sx sand

PRODUCTION

First Production <u>3-14-83</u>	Production Method (Flowing, gas lift, pumping — Size and type pump) <u>Flowing</u>				Well Status (Prod. or Shut-in) <u>Producing SHUT-IN</u>	
Date of Test <u>3-18-83</u>	Hours Tested <u>24</u>	Choke Size <u>32/64</u>	Prod'n. For Test Period <u>2</u>	Oil — Bbl. <u>469</u>	Gas — MCF <u>10</u>	Gas — Oil Ratio <u>234500/1</u>
Flow Tubing Press. <u>60</u>	Casing Pressure <u>110</u>	Calculated 24-Hour Rate <u>2</u>	Oil — Bbl. <u>469</u>	Gas — MCF <u>10</u>	Water — Bbl. <u>38.6 @ 60°</u>	Oil Gravity — API (Corr.)
Disposition of Gas (Sold, used for fuel, vented, etc.) <u>Vented</u>					Test Witnessed By <u>R. Lansford</u>	

List of Attachments

Electric Logs, Deviation Survey

I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED

R.W. Lansford

TITLE

Vice Pres/Energy Resources

DATE

3-25-83

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of a well. It shall be accompanied by one copy of all electrical and radioactivity logs run on the well and a summary of all logs run on the well, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depth shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in duplicate in the case of state lands, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy <u>1402</u>	T. Canyon _____	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt _____	T. Strawn _____	T. Kirtland-Fruitland _____	T. Penn. "C" _____
T. Salt _____	T. Atoka _____	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates <u>2712</u>	T. Miss _____	T. Cliff House _____	T. Leadville _____
T. 7 Rivers _____	T. Devonian _____	T. Menefee _____	T. Madison _____
T. Queen <u>3538</u>	T. Silurian _____	T. Point Lookout _____	T. Elbert _____
T. Grayburg _____	T. Montoya _____	T. Mancos _____	T. McCracken _____
T. San Andres _____	T. Simpson _____	T. Gallup _____	T. Ignacio (Gzte) _____
T. Glorieta _____	T. McKee _____	Base Greenhorn _____	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota _____	T. _____
T. Blinberry _____	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb _____	T. Granite _____	T. Todilto _____	T. _____
T. Drinkard _____	T. Delaware Sand _____	T. Entrada _____	T. _____
T. Abo _____	T. Bone Springs _____	T. Wingate _____	T. _____
T. Wolfcamp _____	T. _____	T. Chinle _____	T. _____
T. Penn. _____	T. _____	T. Permian _____	T. _____
T. Cicco (Bough C) _____	T. _____	T. Penn. "A" _____	T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from _____ to _____	No. 4, from _____ to _____
No. 2, from _____ to _____	No. 5, from _____ to _____
No. 3, from _____ to _____	No. 6, from _____ to _____

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from _____ to _____	feet _____
No. 2, from _____ to _____	feet _____
No. 3, from _____ to _____	feet _____
No. 4, from _____ to _____	feet _____

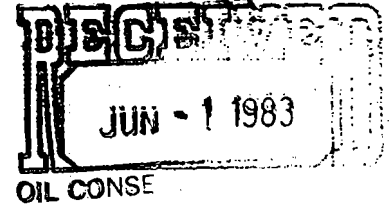
FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	1402	1402	Red Bed, Sand				
1402	2712	1310	Salt, Anhydrite				
2712	3538	826	Sand, Anhydrite, Dolomite				
3538	TD	412	Sand, Dolomite				

May 2, 1983

Robert H. Strand
Atwood, Malone, Mann and Cooter
P.O. Drawer 700
Roswell, New Mexico 88201

RE: Drainage - SW1/4, Section 6
T-19-S, R-37-E, Lea County,
New Mexico.



Dear Mr. Strand,


You have requested my geological opinion regarding gas drainage from the Eumont Gas Pool of the referenced acreage.

It is my opinion that the 160 acre Eumont Gas proration unit in the SW1/4 Section 6, T-19-S, R-37-E, Lea County, New Mexico has not been adequately drained by the Conoco State A #6 for the following reasons:

- a. The producing sands are several and dispersed over approximately an 1100 foot interval. These sands are lenticular and the porosity and permibility of the producing zones vary considerably.
- b. The Conoco State A #6 had a significantly lower cumulative production, 1020 MMCFG, at temporary abandonment than the offset wells. The east offset, Texaco State C #1 had a cumulative on January 1, 1982 of 4059 MMCFG and was still producing. Shells State #1, south offset has a cumulative of 2457 MMCFG on January 1, 1982 and was still producing.
- c. The SITP on the Alpha Jo #1 was 180 psi on March 16, 1983, indicating a reservoir capable of sustained gas production.
- d. Monthly production from the Alpha Jo #1 will be approximately 6 MMCFG as of this date.

If I can be of further assistance in this matter, please contact me.

Yours very truly,


Jack D. Mussett

cc: Mr. Tommy Phipps
Alpha Twenty-One Production Company
2100 First National Bank Building
Midland, Texas 79701

WELL S T R YR. OIL MP YR. WATER YR. GAS Q-G CUM OIL CUM WATER CUM GAS ST POOL NAME OPERATOR LEASE NAME LAND

MONTHLY TOTALS ARE THRU MONTH OF DECEMBER
MONTHLY TOTALS ARE ADDED TO CUMULATIVE TOTALS

LEA COUNTY*****

16E 4 19537E					31009	170	725486	S	EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*UP	
17E 4 19537E					29033	229	451363	S	EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*UP	
18G 4 19537E					6930		499	S	EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*UF	
19H 4 19537E					25450	27	60838	S	EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*UF	
22I 4 19537E					20667	107	34858	S	EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*UP	
1J 4 19537E					134				FOLLOWING WELL PLUGGED AND ABANDONED 1963	
2L 4 19537E					374	175	112455		EUNICE MONUMEN*TEXACO INCOR*MCWILLAN B	* P
									EUMONT YATES 7*DON H WILSON*STATE AT	* S
1M 4 19537E					9904	5	1082816		FOLLOWING WELL PLUGGED AND ABANDONED 1972	
24P 4 19537E	541 P	7	5425	43676	303		127969		EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*UP	
2E 5 19537E			3297				44250		EUMONT YATES 7*GETTY OIL C3*STATE AC	* S
1F 5 19537E							1884483	S	EUMONT YATES 7*GETTY OIL C3*STATE AC	* S
1G 5 19537E			97786				1794301		EUMONT YATES 7*GULF OIL COR*J R HOLT NCT C C*CS	* S
1N 5 19537E	1013 F		21691	38846	694		1476755		EUMONT YATES S*AMERADA HESS*STATE NT	* S
									FOLLOWING WELL PLUGGED AND ABANDONED 1961	
1C 6 19537E					10937				EUMONT YATES S*GROVER MACC*J*SHILL STATE	* S
1C 6 19537E	313 P	3688	2547	3971	9716		16142		EUMONT YATES S*CARBON ENER*SHILL STATE	* S
									FOLLOWING WELL PLUGGED AND ABANDONED 1961	
2D 6 19537E					8413				EUMONT YATES S*GROVER MACC*J*SHILL STATE	* S
1E 6 19537E	461 P		1874	22996	998		175160		EUMONT YATES S*APOLLO OIL C3*NEW MEXICO CE ST* S	* S
2F 6 19537E					8700	20	195254	S	EUMONT YATES S*APOLLO OIL C3*NEW MEXICO CE ST* S	* S
1J 6 19537E			27805				4087486		EUMONT YATES 7*TEXACO INCOR*NEW MEXICO C STA* S	* S
1M 6 19537E							1020755	S	EUMONT YATES 7*CONOCO, INC.*STATE A 6	* S
1B 7 19537E			54203				207885		EUMONT YATES 7*LOJNIE J. BU*GULF-HOUSTON	* P
1E 7 19537E			5423				2462103		EUMONT YATES 7*SHILL OIL C3*STATE	* S
									FOLLOWING WELL PLUGGED AND ABANDONED 1977	
3H 7 19537E				3885			1374673		EUMONT YATES 7*GULF OIL COR*ELBERT SHIPP NCT* P	* P
									FOLLOWING WELL PLUGGED AND ABANDONED 1961	
1I 7 19537E				106988	15134		78880		EUNICE MONUMEN*CONOCO, INC.*STATE A 7	* S
1I 7 19537E				1090	971		1220593		EUMONT YATES 7*CONOCO, INC.*STATE A 7	* S
1J 7 19537E	31	5242 G		8291	718		23342	S	EUNICE MONUMEN*CONOCO, INC.*STATE KV 7	* S
									FOLLOWING WELL PLUGGED AND ABANDONED 1939	
1K 7 19537E				3456					EUNICE MONUMEN*GREAT WESTER*STATE C	* S
1N 7 19537E	1056 P	725	4129	48082	28719		128360		EUNICE MONUMEN*STRATA PETRO*KYTE	* P
20 7 19537E	724	353	8966	204956	43770		115449	T	EUNICE MONUMEN*GULF OIL COR*C H KYTE	* P
									FOLLOWING WELL PLUGGED AND ABANDONED	
1P 7 19537E							2656236		EUMONT YATES 7*GULF OIL COR*C H KYTE	* P
1P 7 19537E	4726 P	68964	26935	461554	976346		389411		EUNICE MONUMEN*GULF OIL COR*C H KYTE	* P
									FOLLOWING WELL RECOMPLETED TO EUMONT YATES 7 RVRS ON (PRO GAS)	
2E 8 19537E				2473					EUNICE MONUMEN*GULF OIL COR*ELBERT SHIPP NCT* S	* S
2E 8 19537E				54628			4381616		EUMONT YATES 7*GULF OIL COR*ELBERT SHIPP NCT*CS	* S
1G 8 19537E				13305			2050210		EUMONT YATES 7*AMERADA HESS*STATE EU GAS COM*CS	* P
2J 8 19537E	2550 F	3354	25631	21007	15196		105990		EUNICE MONUMEN*DOYLE HARTMA*H. HUSTON, JR* P	* P
1L 8 19537E	2669 P	1816	25916	338727	6333		549738		EUNICE MONUMEN*GULF OIL COR*ELBERT SHIPP NCT* P	* P
1M 8 19537E	2947 F		7420	363698	603		177746		EUNICE MONUMEN*GULF OIL COR*H KUTTER NCT*CS	* S
30 8 19537E	2036 P	2683	22716	6427	9355		88515		EUNICE MONUMEN*DOYLE HARTMA*H. HUSTON, JR* P	* P
1O 8 19537E			58525				619366		EUMONT YATES 7*DOYLE HARTMA*H. HUSTON, JR* P	* P
									FOLLOWING WELL PLUGGED AND ABANDONED 1977	
1P 8 19537E							2131391		EUMONT YATES 7*CONTINENTAL *HUSTON	* P
4P 8 19537E	720 P	2986	47292	2295	9624		135169		EUNICE MONUMEN*DOYLE HARTMA*H. HUSTON, JR* P	* P
28A 9 19537E				19811	2		5314	I	EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*US	* S
27B 9 19537E				18626	1		11971	I	EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*US	* S
									FOLLOWING WELL PLUGGED AND ABANDONED 1981	
1K 9 19537E				14844	6		2256950		EUMONT YATES 7*GULF OIL COR*F W KUTTER NCT E*CS	* S
31B10 19537E				9247	85		8867	S	EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*US	* S
30C10 19537E	396 P	7	2219	37366	485		107042		EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*US	* S
29D10 19537E	692 P	9	5295	47028	402		148830		EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*US	* S
32E10 19537E				15233			6423	S	EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*US	* S
33F10 19537E				8625			7894	S	EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*US	* S
35K10 19537E				4539	34		6098	S	EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*US	* S
34L10 19537E				14147	275		27382	S	EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*US	* S
36M10 19537E				12540	10		40920	S	EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*US	* S
									FOLLOWING WELL PLUGGED AND ABANDONED 1961	
1A14 19537E				10310					MONUMENT QUEEN*JOHN M. KELL*GULF TERRY	* P
39C13 19537E				6406	10		9077	S	EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*US	* S
38D15 19537E				14291	4		10727	S	EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*US	* S
41E15 19537E	498 P	539	213	18260	7645		18166		EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*US	* S

WELL S T R YR. OIL MP YR. WATER YR. GAS O-G CUM OIL CUM WATER CUM GAS ST POOL NAME OPERATOR LEASE NAME LAND

MONTHLY TOTALS ARE THRU MONTH OF DECEMBER
MONTHLY TOTALS ARE ADDED TO CUMULATIVE TOTALS

LEA COUNTY*****

16E 4 19537E	F			31009	170	725486	S	EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*UP
17F 4 19537E	F			29033	229	451363	S	EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*UP
18G 4 19537E				6930		499	S	EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*UP
19H 4 19537E				25450	27	60838	S	EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*UP
22I 4 19537E				20667	107	34858	S	EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*UP
1J 4 19537E				134				FOLLOWING WELL PLUGGED AND ABANDONED 1963
2L 4 19537E			16439 G	374	175	112455		EUNICE MONUMEN*TEXACO INCOR*MC MILLAN B * P
1M 4 19537E				9904	5	1082816		EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*UP
24P 4 19537E	541 P	7	5425	43676	303	127969	S	EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*UP
2E 5 19537E			3297 G			44250	S	EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*UP
1F 5 19537E						1884483	S	EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*UP
1G 5 19537E			97786 G			1794301	S	EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*UP
1N 5 19537E	1013 F		21691	38846	694	1476755	S	EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*UP
1C 6 19537E				10937				FOLLOWING WELL PLUGGED AND ABANDONED 1961
1C 6 19537E	313 P	3688	2547	3971	9716	16142	S	EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*UP
2D 6 19537E				8413				EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*UP
1E 6 19537E	461 P		1874	22996	998	175160	S	EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*UP
2F 6 19537E				8700	20	195254	S	EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*UP
1J 6 19537E			27805 G			4087486	S	EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*UP
1M 6 19537E						1020755	S	EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*UP
1B 7 19537E			54203 G			207885	S	EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*UP
1E 7 19537E			5423 G			2462103	S	EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*UP
3H 7 19537E			G	3885				FOLLOWING WELL PLUGGED AND ABANDONED 1977
1I 7 19537E				106988	15134	1374673	S	EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*UP
1I 7 19537E				1090	971	78880	S	EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*UP
1J 7 19537E	31	5242 G		8291	718	1220593	S	EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*UP
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2E 8 19537E				2473				FOLLOWING WELL RECOMPLETED TO EUMONT YATES 7 RVRS ON (PRO GAS)
2E 8 19537E				94628 G		4381616	S	EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*UP
1G 8 19537E				13305 G		2050210	S	EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*UP
2J 8 19537E	2550 F	3354	25631	21007	15196	105990	S	EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*UP
1L 8 19537E	2669 P	1816	25916	338727	6333	549738	S	EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*UP
1M 8 19537E	2947 F		7420	363698	603	177746	S	EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*UP
1O 8 19537E	2036 P	2683	22716 G	6427	9355	68315	S	EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*UP
1P 8 19537E						619366	S	EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*UP
4P 8 19537E	720 P	2986	47292 G	2295	9624	2131391	S	EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*UP
28A 9 19537E				19811	2	135169	S	EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*UP
27B 9 19537E				8626	1	5314	S	EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*UP
1K 9 19537E			G	14844	6	2256950	S	EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*UP
31B10 19537E				9247	85	8867	S	EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*UP
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29D10 19537E	692 P	9	5295	47028	402	148830	S	EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*UP
32E10 19537E				15233		6423	S	EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*UP
33F10 19537E				8625		7894	S	EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*UP
35K10 19537E				4539	34	6098	S	EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*UP
34L10 19537E				14147	275	27382	S	EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*UP
36M10 19537E				12540	10	90920	S	EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*UP
1A14 19537E				10310				FOLLOWING WELL PLUGGED AND ABANDONED 1961
39C15 19537E				6408	10	9077	S	EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*UP
38D15 19537E				14291	4	10727	S	EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*UP
41E15 19537E	498 P	539	213	18260	7645	18166	S	EUMONT YATES S*GETTY OIL C3*EAST EUMONT UNIT*UP

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18C 4 19537E					6930		499	S EUMONT YATES	S*GETTY OIL	CJ*EAST	EUMONT UNIT*UP
19H 4 19537E					25450	27	60838	S EUMONT YATES	S*GETTY OIL	CJ*EAST	EUMONT UNIT*UP
22I 4 19537E					20667	107	34858	S EUMONT YATES	S*GETTY OIL	CJ*EAST	EUMONT UNIT*UP
1J 4 19537E					134			FOLLOWING WELL PLUGGED AND ABANDONED 1963			
2L 4 19537E					374	175	112455	EUNICE MONUMEN*TEXACO INCOR*MCILLAN B			* P
								EUMONT YATES 7*DON H WILSON*STATE AT			* S
1M 4 19537E					9904	5	1082816	FOLLOWING WELL PLUGGED AND ABANDONED 1972			
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1F 5 19537E							1884483	EUMONT YATES S*GULF OIL COR*J R HOLT NCT C C			* S
1G 5 19537E			97786				1794301	EUMONT YATES S*GULF OIL COR*J R HOLT NCT C C			* S
1N 5 19537E	1013 F		21691		38846	694	1476755	EUMONT YATES S*GULF OIL COR*J R HOLT NCT C C			* S
								FOLLOWING WELL PLUGGED AND ABANDONED 1961			
1C 6 19537E					10937			EUMONT YATES S*GULF OIL COR*J R HOLT NCT C C			* S
1C 6 19537E	313 P	3688	2547		3971	9716	16142	EUMONT YATES S*GULF OIL COR*J R HOLT NCT C C			* S
								FOLLOWING WELL PLUGGED AND ABANDONED 1951			
2D 6 19537E					8413			EUMONT YATES S*GULF OIL COR*J R HOLT NCT C C			* S
1E 6 19537E	461 P		1874		22996	998	175160	EUMONT YATES S*GULF OIL COR*J R HOLT NCT C C			* S
2F 6 19537E					8700	20	195254	EUMONT YATES S*GULF OIL COR*J R HOLT NCT C C			* S
1J 6 19537E			27805				4087486	EUMONT YATES S*GULF OIL COR*J R HOLT NCT C C			* S
1M 6 19537E							1020755	EUMONT YATES S*GULF OIL COR*J R HOLT NCT C C			* S
1B 7 19537E			54203				207885	EUMONT YATES S*GULF OIL COR*J R HOLT NCT C C			* S
1E 7 19537E			5423				2462103	EUMONT YATES S*GULF OIL COR*J R HOLT NCT C C			* S
								FOLLOWING WELL PLUGGED AND ABANDONED 1977			
3H 7 19537E					3885		1374673	EUMONT YATES S*GULF OIL COR*J R HOLT NCT C C			* P
								FOLLOWING WELL PLUGGED AND ABANDONED 1977			
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1I 7 19537E					1090		1220593	EUMONT YATES S*GULF OIL COR*J R HOLT NCT C C			* S
1J 7 19537E	31	5282			8291	718	23342	EUMONT YATES S*GULF OIL COR*J R HOLT NCT C C			* S
								FOLLOWING WELL PLUGGED AND ABANDONED 1939			
1K 7 19537E					3456			EUMONT YATES S*GULF OIL COR*J R HOLT NCT C C			* S
1N 7 19537E	1056 P	725	4129		48082	28719	128360	EUMONT YATES S*GULF OIL COR*J R HOLT NCT C C			* P
2O 7 19537E	724	353	8966		204956	43770	115449	EUMONT YATES S*GULF OIL COR*J R HOLT NCT C C			* P
								FOLLOWING WELL PLUGGED AND ABANDONED			
1P 7 19537E							2656236	EUMONT YATES S*GULF OIL COR*J R HOLT NCT C C			* P
1P 7 19537E	4726 P	68964	26935		461554	976346	389411	EUMONT YATES S*GULF OIL COR*J R HOLT NCT C C			* P
								FOLLOWING WELL RECOMPLETED TO EUMONT YATES 7 RVRS ON (PRO GAS)			
2E 8 19537E					2473		4381616	EUMONT YATES S*GULF OIL COR*J R HOLT NCT C C			* S
2E 8 19537E							2050210	EUMONT YATES S*GULF OIL COR*J R HOLT NCT C C			* S
1G 8 19537E					54628		13305	EUMONT YATES S*GULF OIL COR*J R HOLT NCT C C			* S
2J 8 19537E	2550 F	3354	25631		21007	15196	105990	EUMONT YATES S*GULF OIL COR*J R HOLT NCT C C			* S
1L 8 19537E	2669 P	1816	25916		338727	6333	549738	EUMONT YATES S*GULF OIL COR*J R HOLT NCT C C			* P
1M 8 19537E	2947 F		7420		363698	603	177746	EUMONT YATES S*GULF OIL COR*J R HOLT NCT C C			* P
3O 8 19537E	2036 P	2683	22716		6427	9355	88515	EUMONT YATES S*GULF OIL COR*J R HOLT NCT C C			* P
1O 8 19537E			58525				619366	EUMONT YATES S*GULF OIL COR*J R HOLT NCT C C			* P
								FOLLOWING WELL PLUGGED AND ABANDONED 1977			
1P 8 19537E							2131391	EUMONT YATES S*GULF OIL COR*J R HOLT NCT C C			* P
4P 8 19537E	720 P	2986	47292		2295	9624	135169	EUMONT YATES S*GULF OIL COR*J R HOLT NCT C C			* P
28A 9 19537E					19811	2	5314	EUMONT YATES S*GULF OIL COR*J R HOLT NCT C C			* P
27B 9 19537E					8626	1	11971	EUMONT YATES S*GULF OIL COR*J R HOLT NCT C C			* P
								FOLLOWING WELL PLUGGED AND ABANDONED 1981			
1K 9 19537E					14844	6	2256950	EUMONT YATES S*GULF OIL COR*J R HOLT NCT C C			* S
31B10 19537E					9247	85	8867	EUMONT YATES S*GULF OIL COR*J R HOLT NCT C C			* S
30C10 19537E	396 P	7	2219		37366	485	107042	EUMONT YATES S*GULF OIL COR*J R HOLT NCT C C			* S
29D10 19537E	692 P	9	5295		47028	402	148830	EUMONT YATES S*GULF OIL COR*J R HOLT NCT C C			* S
32E10 19537E					15233		6423	EUMONT YATES S*GULF OIL COR*J R HOLT NCT C C			* S
33F10 19537E					8625		7894	EUMONT YATES S*GULF OIL COR*J R HOLT NCT C C			* S
35K10 19537E					4539	34	6098	EUMONT YATES S*GULF OIL COR*J R HOLT NCT C C			* S
34L10 19537E					14147	275	27382	EUMONT YATES S*GULF OIL COR*J R HOLT NCT C C			* S
36M10 19537E					12540	10	20920	EUMONT YATES S*GULF OIL COR*J R HOLT NCT C C			* S
								FOLLOWING WELL PLUGGED AND ABANDONED 1961			
1A14 19537E					10310			EUMONT YATES S*GULF OIL COR*J R HOLT NCT C C			* P
39C15 19537E					8406	10	9077	EUMONT YATES S*GULF OIL COR*J R HOLT NCT C C			* P
38D15 19537E					14291	4	10727	EUMONT YATES S*GULF OIL COR*J R HOLT NCT C C			* P
41E15 19537E	498 P	539	213		18260	7645	18166	EUMONT YATES S*GULF OIL COR*J R HOLT NCT C C			* P

NEW MEXICO
OIL CONSERVATION COMMISSION

Gas Well Plat

Date 9/7/54

Continental Oil Co.
Operator

State A-6
Lease

1
Well No.

Name of Producing Formation Queen Pool Eumont

No. Acres Dedicated to the Well 160

SECTION 6 TOWNSHIP 19 RANGE 37

1 ⚙			

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

Name [Signature]
Position Superintendent
Representing Continental Oil Co.
Address Box 427, Hobbs, N. M.

(over)

NEW MEXICO OIL CONSERVATION COMMISSION
BOX-2045
HOBBS, NEW MEXICO

DATE* September 21, 1954

TO: Continental Oil Co.
Box 427

Hobbs, New Mexico

GENTLEMEN:

Form C-104 for your State A-6 #1-M 6-19-37 Eumont-Ext.
LEASE WELL S.T.R. POOL

has been approved, however, since this well is:

- () An unorthodox location,
- () Located on an unorthodox proration unit,
- () Outside the boundaries of a designated pool,

it will be necessary for you to;

- () Comply with the provisions of Rule 4 of Commission Order _____
- () Comply with the provisions of Rule 7 of Commission Order _____
- (x) File Form C-123

Pending further Commission action this unit will be assigned an 160 acre allowable.

Subject to the provisions of Order R-520

OIL CONSERVATION COMMISSION

BY: _____

OCC:hc

cc: Transporter
EP

APPROVED	
DISTRIBUTION	
DATE	
FILE	
NO. OF COPIES	
AND OFFICE	
OPERATION	

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

DEC 13 1982

Form O-101
Revised 10-1-78

5A. Indicate Type of Lease
STATE ☒ FEE ☐

5. State Oil & Gas Lease No.
B-2656

7. Unit Agreement Name

8. Name of Lease Name
Jo

9. Well No.
1

10. Field and Pool, or Wildcat
Eumont Gas Pool

12. County
Lea

APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK

1. Kind of Well
DRILL ☒ DEEPEN ☐ PLUG BACK ☐
GAS WELL ☒ OTHER ☐

2. Name of Operator
Alpha Twenty-One Production Company OIL CONSERVATION DIVISION SANTA FE

3. Location of Well
P.O. Box 1206 Jal, New Mexico 88252

4. Location of Well
UNIT LETTER **N** LOCATED **1944** FEET FROM THE **West** LINE
660 FEET FROM THE **South** LINE OF SEC. **6** TWP. **19-S** RCF. **37-E** NMPM

19. Proposed Depth
3900

19A. Formation
Queen

20. Rotary or C.T.
Rotary

21A. Kind & Status Plug. Bond
State Wide

21B. Drilling Contractor

22. Approx. Date work will start
1-1-83

23. Remarks (show whether Dr., H.I., etc.)
3717.4 GL

PROPOSED CASING AND CEMENT PROGRAM					
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12-1/4"	8-5/8"	24#	400'	250	Circulate
7-7/8"	5-1/2"	14#	3900'	1200	Circulate

The proposed well is being requested for a Non-Standard Proration Gas Unit in the Eumont Gas Pool. (See Attachments)

The proposed well will be equipped with a 3000 PSI Double Ram BOP System from the base of surface casing through the running of production casing.

APPROVAL VALID FOR 180 DAYS
PERMIT EXPIRES 6/16/83
UNLESS DRILLING UNDERWAY

6. SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTION ZONE, IF ANY.

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

Michael D. Ory Title Drilling Superintendent Date 12-3-82

(This ORIGINAL SIGNED BY
JERRY SEXTON
DATE BY DECEMBER 16 1982 TITLE _____ DATE DEC 16 1982

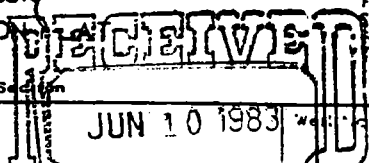
8. THIS OF APPROVAL, IF ANY:

Received 12-17-82

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section



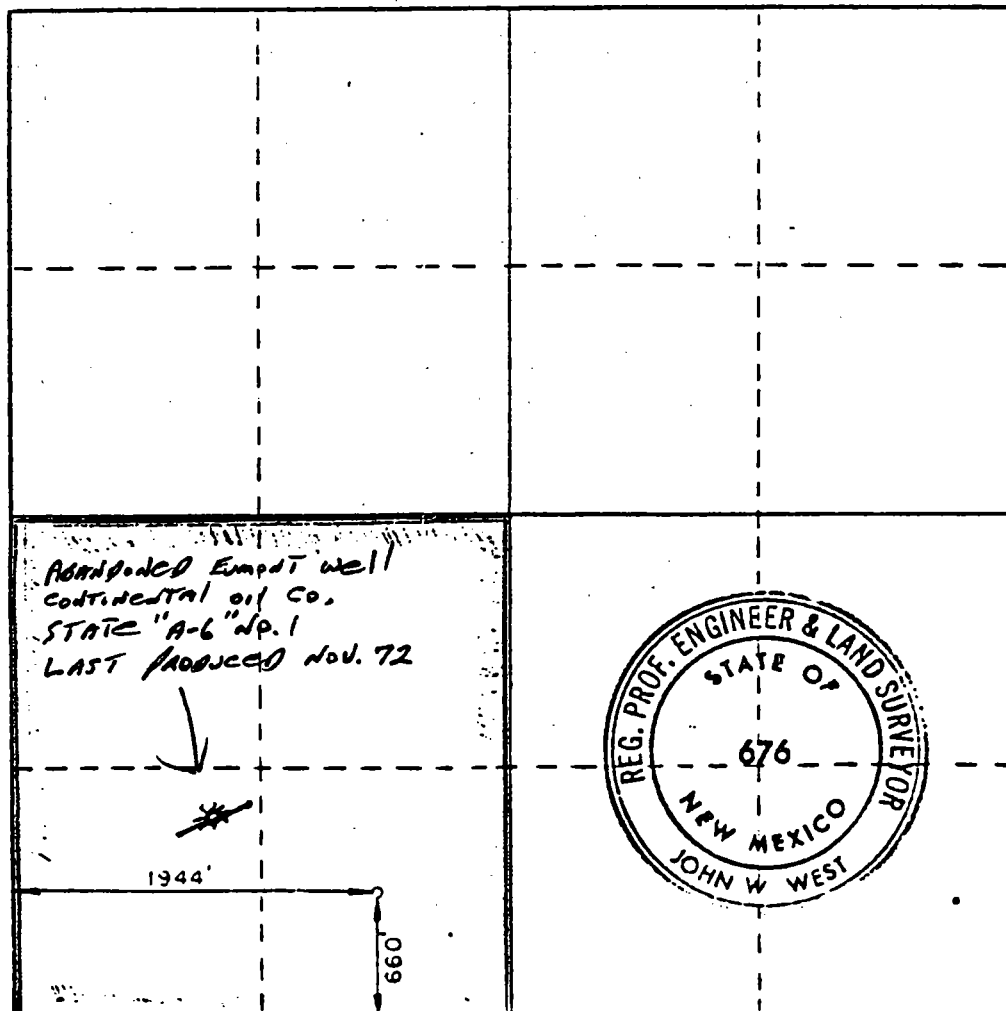
Operator ALPHA 21 PRODUCTION CO.		Lease Jo	
Section N	Section 6	Township 19 SOUTH	Range 37 EAST
County OIL CONSERVATION DIVISION LEA SANTA FE			
Actual Portage Location of Well: 1944 feet from the WEST line and 660 feet from the SOUTH line			
Ground Level Elev. 3717.4	Producing Formation Queen	Pool Eumont Gas	Dedicated Acreage: 160 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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 Commission.



CERTIFICATION

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

Michael D. Oney
Name
Michael D. Oney

Position
Drilling Superintendent

Company
Alpha 21 Production Co.

Date
12-3-82

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 knowledge and belief.

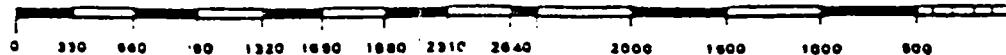
12-1-82

Date Surveyed

Registered Professional Engineer and/or Land Surveyor

John W. West

Certificate No
JOHN W. WEST NO. 676





STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

TONY ANAYA
GOVERNOR

August 4, 1983

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-5800

Atwood, Malone, Mann & Cooter
P.O. Drawer 700
Security National Bank Bldg.
Roswell, NM 88201

Attn: Robert H. Strand

Re: Application for NGPA Infill Well
Findings Under Provisions of
Order No. R-6013-A Alpha Twenty-one
Production Company, Jo Well No. 1,
N-6-T-19S, R-37E, Lea County, NM

Dear Mr. Strand:

We may not process the subject application for infill findings until the required information, forms, or plats checked on the reverse side of this letter are submitted.

Sincerely,

Michael E. Stogner,
Petroleum Engineer

MES/dp

- ☐ A copy of Form C-101 must be submitted.
- ☐ A copy of Form C-102 must be submitted.
- ☐ The pool name must be shown.
- ☐ The standard spacing unit size for the pool must be shown.
- ☐ Give the Division Order No. which granted the non-standard proration unit.
- ☐ Please state whether or not the well has been spudded and give the spud date, if any.
- ☐ Information relative to other wells on the proration unit is incomplete.

- ☒ The geologic and reservoir data is incomplete or insufficient.

See Rule 9 (Attached)

- ☒ Other:

See Rule 11 (Attached)

-4-

SPECIAL RULES AND REGULATIONS
NATURAL GAS POLICY ACT INFILL FINDINGS
ADMINISTRATIVE PROCEDURE
(Amended February 8, 1980)

A. DEFINITIONS

RULE 1. For purposes of this administrative procedure only, the following definitions are adopted:

- a. Infill well: An additional well which has been drilled for production on an established proration unit.

B. APPLICABILITY

RULE 2. These special rules and regulations shall apply to effective and efficient drainage findings for completed infill wells pursuant to Section 271.303 of the final Rules and Regulations of the Federal Energy Regulatory Commission relating to Section 103 of the Natural Gas Policy Act of 1978. (These special rules and regulations do not apply to infill wells drilled in the Blanco Mesaverde or Basin-Dakota Pools. Infill wells in these two pools are covered by Rule 15 B of the "Special Rules for Applications for Wellhead Price Ceiling Category Determinations" promulgated by Division Order No. R-5878 as amended by Order No. R-5878-A.)

C. JUSTIFICATION FOR FINDINGS

RULE 3. The Division Director or a Division Examiner may find that an infill well is necessary:

- a. upon a showing by the operator that an additional well is needed to effectively and efficiently drain a portion of the reservoir covered by the proration unit which cannot be so drained by any existing well within that unit, and
- b. upon receipt of waivers from all offset operators, or if no offset operator has entered an objection to the infill finding within 20 days after receipt of the application by the Director.

RULE 4. The Director may set any application for hearing at his discretion or at the request of an applicant.

Exhibit A
Order R-6013-A

D. FILING REQUIREMENTS

RULE 5. Each applicant shall submit a copy of the approved Form C-101 for the infill well and Form C-102 showing the proration unit dedicated.

RULE 6. Applicant shall give the name of the pool in which the infill well has been drilled and the standard spacing unit size therefor.

RULE 7. If applicable, the applicant shall give the number of the Division order approving the non-standard proration unit dedicated to the well.

RULE 8. The applicant shall submit a description of all wells drilled on the proration unit (including the completed infill well) which are or have been completed in the same pool or reservoir as the proposed infill well showing:

- a. lease name and well location;
- b. spud date;
- c. completion date;
- d. a description of any mechanical problems experienced along with a summary of remedial action(s) taken and the results obtained;
- e. the current rate of production/ and
- f. date of plug and abandonment, if any;
- g. a clear and concise statement indicating why the existing well(s) on the proration cannot effectively and efficiently drain the portion of the reservoir covered by the proration unit.

RULE 9. The applicant shall submit geological and engineering information sufficient to support a finding as to the necessity for an infill well including:

- a. formation structure map
- b. the volume of increased ultimate recovery expected to be obtained and a narrative describing how the increase was determined
- c. any other supporting data which the applicant deems to be relevant which may include:
 - (1) porosity and permeability factors
 - (2) production/pressure decline curves
 - (3) effects of secondary recovery or pressure maintenance operations.

RULE 10. Applications for infill findings shall be filed in duplicate with the Santa Fe office of the Division.

RULE 11. All operators of proration or spacing units offsetting the unit for which an infill finding is sought shall be notified of the application by certified or registered mail, and the application shall state that such notification has been given.

ATWOOD, MALONE, MANN & COOTER

A PROFESSIONAL ASSOCIATION
LAWYERS

JEFF D. ATWOOD [1883-1960]
ROSS L. MALONE [1910-1974]

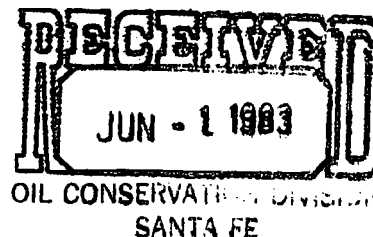
P. O. DRAWER 700
SECURITY NATIONAL BANK BUILDING
ROSWELL, NEW MEXICO 88201
[505] 622-6221

CHARLES F. MALONE
RUSSELL D. MANN, P. A.
PAUL A. COOTER
BOB F. TURNER
JOHN W. BASSETT
ROBERT E. SABIN
BRIAN W. COPPLE
ROBERT H. STRAND
STEVEN L. BELL

WILLIAM P. LYNCH
RODNEY M. SCHUMACHER
R. TRACY SPROULS
FREDDIE J. ROMERO
GEORGE D. GIDDENS, JR.

May 4, 1983

State of New Mexico
Department of Energy
Oil Conservation Division
Post Office Box 2088
Santa Fe, New Mexico 87501



ATTN: Mr. Perry Pierce

Re: Application for Infill Drilling Order
Township 19 South, Range 37 East, NMPM
Section 6: SW/4
Lea County, New Mexico
Eumont Gas Pool

Gentlemen:

On behalf of Alpha Twenty-One Production Company, this letter shall constitute our application for an administrative order of the Division finding that an additional well is necessary to effectively drain the Eumont Gas Proration Unit assigned to the SW/4 of Section 6, T-19S, R-37E, NMPM, Lea County, New Mexico.

Continental Oil Company, on September 2, 1954, completed its Conoco State A #6 well in the Eumont Gas Pool at a location in Unit M, 990 FSL and 990 FWL of said Section 6. This well was produced until November 1982, when it was temporarily abandoned, and it has remained in such status to the present time.

Under the terms of a Farmout Agreement with Conoco, Inc., Alpha Twenty-One Production Company, as Operator, has recently drilled and completed its Jo #1 well in the Eumont Gas Pool at a location in Unit N, 1944 FWL and 660 FSL of Section 6. The Jo #1 well was completed on March 14, 1983, and is currently producing, with the gas being sold to El Paso Natural Gas Company. A copy of the completion report for the Jo #1 well is attached hereto.

As noted above, the Conoco A #6 well has been abandoned for some 11 years, and we are attaching hereto a

THE UNIVERSITY OF CHICAGO
LIBRARY

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1215 EAST 58TH STREET
CHICAGO, ILL. 60637
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FAX: 773-936-5001
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May 4, 1983

geological report relating to inability of the Conoco A #6 well to effectively drain the entire Eumont Proration Unit assigned thereto, consisting of the SW/4 of Section 6.

Based on the above, and for purposes of filing a Natural Gas Policy Act Ceiling Price Application for the Jo #1 well, and pursuant to division rule 16A 3. and 6a and 18 CFR 271.305, we are requesting the division to enter its administrative order authorizing the drilling of the Jo #1 well as an infill well, and finding that such well is necessary effectively drain all or a portion of the Eumont reservoir under the SW/4 of Section 6, which cannot be effectively and efficiently drained by the abandoned Conoco A #6 well.

Respectfully submitted,

Atwood, Malone, Mann & Cooter, P.A.

By: 

Attorneys for Applicant

RHS/bjt

xc: Mr. Tommy Phipps, Executive Vice President
Alpha Twenty-One Production Company
2100 First National Bank Building
Midland, Texas 79701

OIL CONSERVATION DIVISION

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

NO. OF COPIES RECEIVED	
DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

TYPE OF WELL

TYPE OF COMPLETION

NEW WELL ☒

WORK OVER ☐

DEEPEN ☐

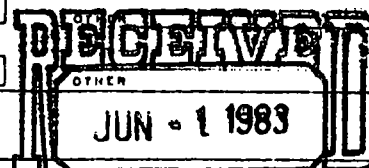
PLUG BACK ☐

DIFF. RESVR. ☐

OIL WELL ☐

GAS WELL ☒

DRY ☐



OIL CONSERVATION DIVISION
SANTA FE

Name of Operator

Alpha Twenty-One Production Company

Address of Operator

P.O. Box 1206, Jal, NM 88252

Location of Well

IT LETTER N LOCATED 1944 FEET FROM THE West LINE AND 660 FEET FROM

South LINE OF SEC. 6 TWP. 19-S RGE. 37-E NMPM

Date Spudded
1-7-83

16. Date T.D. Reached
1-16-83

17. Date Compl. (Ready to Prod.)
3-14-83

18. Elevations (DF, RKB, RT, GR, etc.)
3717.4 GL

19. Elev. Casinghead

Total Depth
3950

21. Plug Back T.D.
3939

22. If Multiple Compl., How Many

23. Interval Drilled By Rotary Tools
3950

Cable Tools

Producing Interval(s), of this completion - Top, Bottom, Name

3755 - 3813 (Queen)

25. Was Directional Survey Made

Yes

Type Electric and Other Logs Run
CDN, FORKO

27. Was Well Cored
No

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
12-3/4"	30	30'	15"	Redimix to surface	
8-5/8"	23	422.11'	12-1/4"	250 sx Cl.C, CACL. Circ.	
5-1/2"	14	3942.73'	7-7/8"	450 sx Hal/Lite, 325 sx 50/50 Poz C. Circ.	

LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

30. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2-3/8"	3809.27'	non3

1. Perforation Record (Interval, size and number)

3755, 3759, 3764, 3768, 3769, 3770, 3771, 3772, 3774, 3807, 3808, 3809, 3810, 3812, 3813 (15 Dia) 15 Perfs

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
3755 - 3813	2 1/2 bbls + 3900 gals 15% mud aci
3755 - 3813	50000 gals frac fluid with 1000 sx sand

PRODUCTION

1st Production
3-14-83

Production Method (Flowing, gas lift, pumping - Size and type pump)
Flowing

Well Status (Prod. or Shut-in)
Producing ~~Shut-in~~

Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
3-18-83	24	32/64		2	469	10	234500/1
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.)	
60	110		2	469	10	38.6 @ 60°	

Disposition of Gas (Sold, used for fuel, vented, etc.)

Vented

Test Witnessed By

R. Lansford

List of Attachments

Electric Logs, Deviation Survey

I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED

R.W. Lansford

TITLE Vice Pres/Energy Resources

DATE 3-25-83

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of a well or a test. It shall be accompanied by one copy of all electrical and radioactivity logs run on the well and a summary of all logs run on the well, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depth shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in duplicate, one copy to be filed in the District Office, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy _____ 1402	T. Canyon _____	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt _____	T. Strawn _____	T. Kirtland-Fruitland _____	T. Penn. "C" _____
T. Salt _____	T. Atoka _____	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates _____ 2712	T. Miss _____	T. Cliff House _____	T. Leadville _____
T. 7 Rivers _____	T. Devonian _____	T. Menefee _____	T. Madison _____
T. Queen _____ 3538	T. Silurian _____	T. Point Lookout _____	T. Elbert _____
T. Grayburg _____	T. Montoya _____	T. Mancos _____	T. McCracken _____
T. San Andres _____	T. Simpson _____	T. Gallup _____	T. Ignacio (Grite) _____
T. Glorieta _____	T. McKee _____	Base Greenhorn _____	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota _____	T. _____
T. Blinney _____	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tabb _____	T. Granite _____	T. Todillo _____	T. _____
T. Drinkard _____	T. Delaware Sand _____	T. Entrada _____	T. _____
T. Abo _____	T. Bone Springs _____	T. Wingate _____	T. _____
T. Wolfcamp _____	T. _____	T. Chinle _____	T. _____
T. Penn. _____	T. _____	T. Permian _____	T. _____
T. Cisco (Bough C) _____	T. _____	T. Penn. "A" _____	T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from _____ to _____	No. 4, from _____ to _____
No. 2, from _____ to _____	No. 5, from _____ to _____
No. 3, from _____ to _____	No. 6, from _____ to _____

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from _____ to _____	feet _____
No. 2, from _____ to _____	feet _____
No. 3, from _____ to _____	feet _____
No. 4, from _____ to _____	feet _____

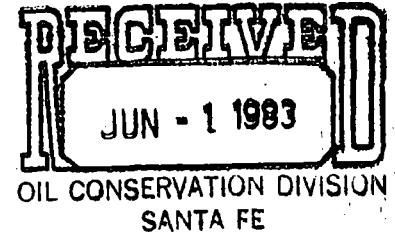
FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	1402	1402	Red Bed, Sand				
1402	2712	1310	Salt, Anhydrite				
2712	3538	826	Sand, Anhydrite, Dolomite				
3538	TD	412	Sand, Dolomite				

May 2, 1983

Robert H. Strand
Atwood, Malone, Mann and Cooter
P.O. Drawer 700
Roswell, New Mexico 88201

RE: Drainage - SW1/4, Section 6
T-19-S, R-37-E, Lea County,
New Mexico.



Dear Mr. Strand,

You have requested my geological opinion regarding gas drainage from the Eumont Gas Pool of the referenced acreage.

It is my opinion that the 160 acre Eumont Gas proration unit in the SW1/4 Section 6, T-19-S, R-37-E, Lea County, New Mexico has not been adequately drained by the Conoco State A #6 for the following reasons:

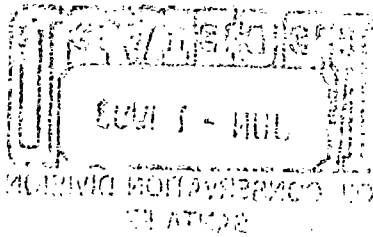
- a. The producing sands are several and dispersed over approximately an 1100 foot interval. These sands are lenticular and the porosity and permibility of the producing zones vary considerably.
- b. The Conoco State A #6 had a significantly lower cumulative production, 1020 MMCFG, at temporary abandonment than the offset wells. The east offset, Texaco State C #1 had a cumulative on January 1, 1982 of 4059 MMCFG and was still producing. Shells State #1, south offset has a cumulative of 2457 MMCFG on January 1, 1982 and was still producing.
- c. The SITP on the Alpha Jo #1 was 180 psi on March 16, 1983, indicating a reservoir capable of sustained gas production.
- d. Monthly production from the Alpha Jo #1 will be approximately 6 MMCFG as of this date.

If I can be of further assistance in this matter, please contact me.

Yours very truly,


Jack D. Mussett

cc: Mr. Tommy Phipps
Alpha Twenty-One Production Company
2100 First National Bank Building
Midland, Texas 79701



1. NAME OF OPERATOR	
2. ADDRESS	
3. PHONE	
4. CITY	
5. STATE	
6. ZIP	
7. DATE	
8. TIME	
9. SIGNATURE	
10. OFFICE	
11. PERMIT	

OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

DEC 13 1982

12. Form C-101 Revised 10-1-78
13. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEDERAL <input type="checkbox"/>
14. State Oil & Gas Lease No. B-2656
15. Unit Agreement Name
16. Form of Lease Name JO
17. Well No. 1
18. Field and Pool, or Whichever Eumont Gas Pool
19. County Lea

APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK			
1. Kind of Work DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>			
2. Name of Operator Alpha Twenty-One Production Company			
3. Address of Operator P.O. Box 1206 Jal, New Mexico 88252			
4. Location of Well UNIT LETTER N LOCATED 1944 FEET FROM THE West LINE 660 FEET FROM THE South LINE OF SEC. 6 TWP. 19-S RCF. 37-E NMPM			
5. Depth (show whether Dr., E.L., etc.) 3717.4 GL		6. Kind & Status Plug. Bond State Wide	7. Drilling Contractor
8. Proposed Depth 3900		9. Formation Queen	10. Rotary or C.T. Rotary
11. Approx. Date Work will start 1-1-83		12. Other	

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12-1/4"	8-5/8"	24#	400'	250	Circulate
7-7/8"	5-1/2"	14#	3900'	1200	Circulate

The proposed well is being requested for a Non-Standard Proration Gas Unit in the Eumont Gas Pool. (See Attachments)

The proposed well will be equipped with a 3000 PSI Double Ram BOP System from the base of surface casing through the running of production casing.

APPROVAL VALID FOR 180 DAYS
PERMIT EXPIRES 6/16/83
UNLESS DRILLING UNDERWAY

1. SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

Signature: Michael D. Ory Title: Drilling Superintendent Date: 12-3-82

(This ORIGINAL SIGNED BY
JERRY SEXTON

DATE BY: 12-16-82 TITLE: DEC 16 1982

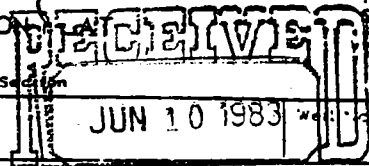
OTHER APPROVAL, IF ANY:

Received 12-17-82

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section



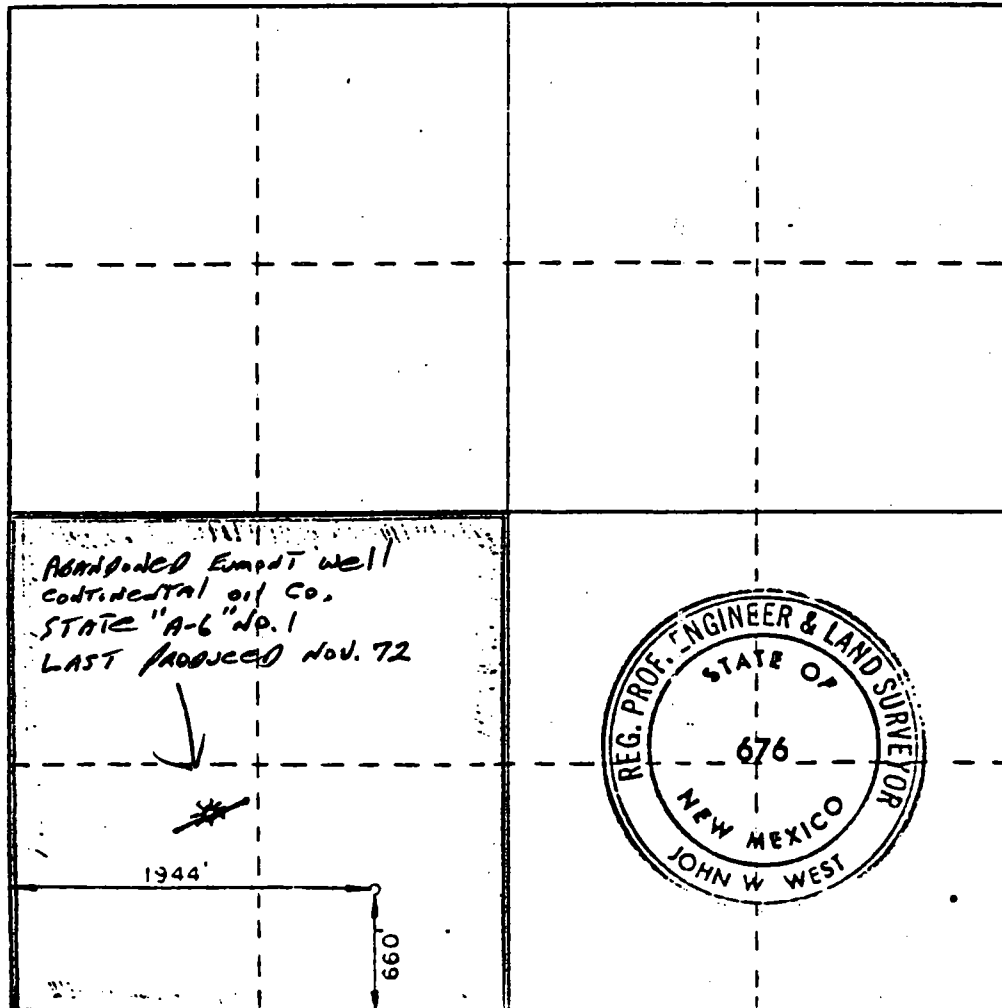
Operator ALPHA 21 PRODUCTION CO.		Lease Jo	
Unit Letter N	Section 6	Township 19 SOUTH	Range 37 EAST
County OIL CONSERVATION DIVISION LEA SANTA FE			
Actual Portage Location of Well: 1944 feet from the WEST line and 660 feet from the SOUTH line			
Ground Level Elev. 3717.4	Producing Formation Queen	Pool Eumont Gas	Dedicated Acreage: 160 Acres

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 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 Commission.



CERTIFICATION

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

Michael D. Oney
Name

Michael D. Oney

Position

Drilling Superintendent

Company

Alpha 21 Production Co.

Date

12-3-82

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 knowledge and belief.

12-1-82

Date Surveyed

Registered Professional Engineer and/or Land Surveyor

John W. West

Certificate No

JOHN W. WEST NO. 676

0 330 660 990 1320 1650 1980 2310 2640 2970 3300 3630 3960 4290 4620 4950 5280 5610 5940 6270 6600

MINERALS DEPARTMENT	
DISTRIBUTION	
DATE	
FILE	
S.C.S.	
AND OFFICE	
PERMIT	

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-101
Revised 10-1-78

DEC 13 1982

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1. Type of Work: **DRILL** ☒ **DEEPEN** ☐ **PLUG BACK** ☐

2. Is it a Gas Well? ☐ **GAS WELL** ☒ **OTHER** ☐

RECEIVED
JUN 10 1983
OIL CONSERVATION DIVISION
SANTA FE

3. Name of Operator: **Alpha Twenty-One Production Company**

4. Address of Operator: **P.O. Box 1206 Jal, New Mexico 88252**

5. Location of Well: **UNIT LETTER N LOCATED 1944 FEET FROM THE West LINE**

660 FEET FROM THE South LINE OF SEC. 6 TWP. 19-S RCP. 37-E NMPM

6A. Indicate Type of Lease: **STATE** ☒ **FEED** ☐

7. State Oil & Gas Lease No.: **B-2656**

8. Unit Agreement Name: _____

9. Farm or Lease Name: **Jo**

10. Well No.: **1**

11. Field and Pool, or Wildcat: **Eumont Gas Pool**

12. County: **Lea**

13. (Show whether L.P., K.I., etc.) 3717.4 GL	14A. Kind & Status Plug Bond State Wide	15. Proposed Depth 3900	16A. Formation Queen	17. Rotary or C.T. Rotary
18. Drilling Contractor		22. Approx. Date Work will start 1-1-83		

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12-1/4"	8-5/8"	24#	400'	250	Circulate
7-7/8"	5-1/2"	14#	3900'	1200	Circulate

The proposed well is being requested for a Non-Standard Proration Gas Unit in the Eumont Gas Pool. (See Attachments)

The proposed well will be equipped with a 3000 PSI Double Ram BOP System from the base of surface casing through the running of production casing.

APPROVAL VALID FOR 180 DAYS
PERMIT EXPIRES 6/16/83
UNLESS DRILLING UNDERWAY

SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTION ZONE. BLOWOUT PREVENTER PROGRAM, IF ANY.

I certify that the information above is true and complete to the best of my knowledge and belief.
Michael D. Oney Title Drilling Superintendent Date 12-3-82

(This ORIGINAL SIGNED BY)
JERRY SEXTON
BY JERRY SEXTON TITLE DISTRICT SUPERVISOR DATE DEC 16 1982

Received 12-17-82

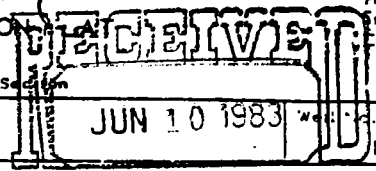
1944

1944

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section



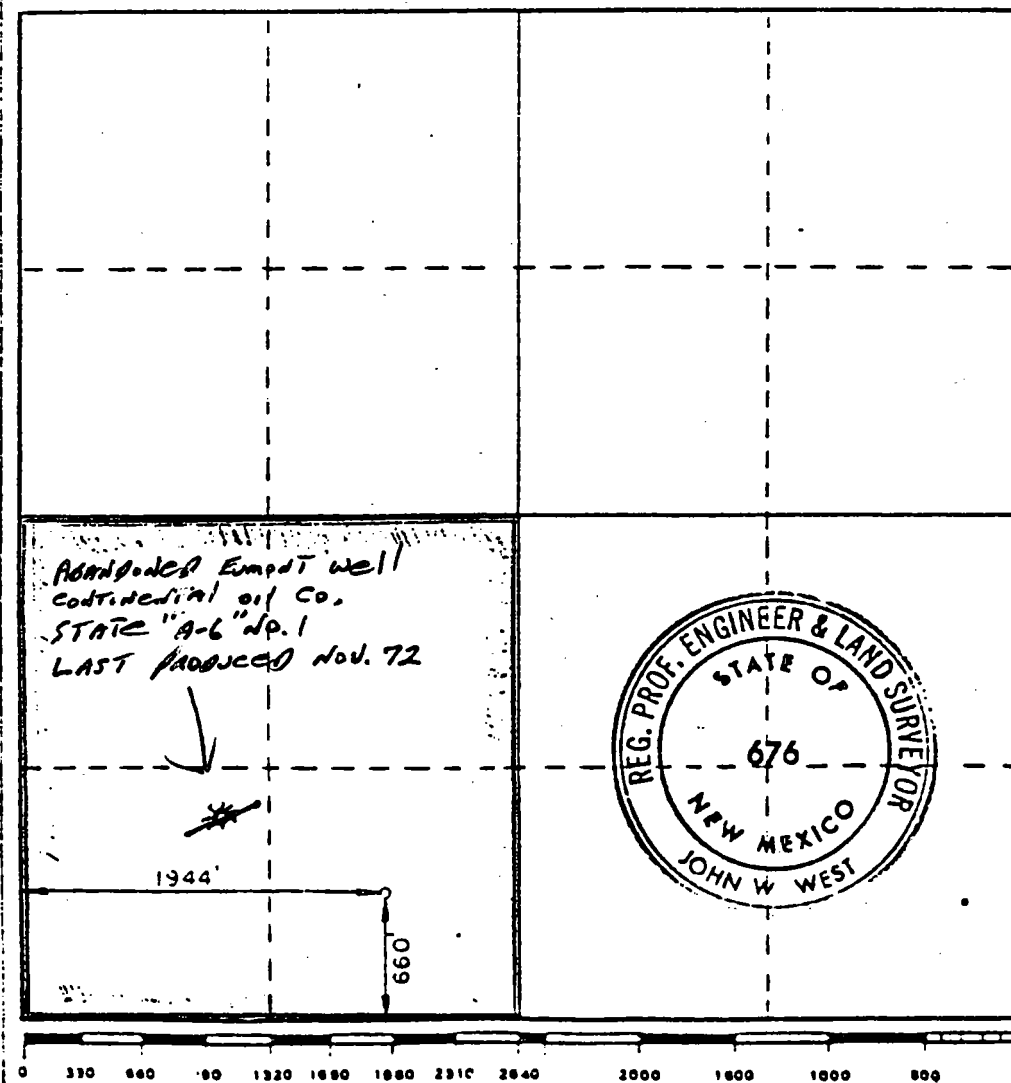
Operator ALPHA 21 PRODUCTION CO.			Lease Jo		
Tract Letter N	Section 6	Township 19 SOUTH	Range 37 EAST	County CONSERVATION DIVISION LEA SANTA FE	
Actual Footage Location of Well: 1944 feet from the WEST line and 660 feet from the SOUTH line					
Ground Level Elev. 3717.4	Producing Formation Queen	Pool Eumont Gas	Dedicated Acreage: 160 Acres		

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
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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 Commission.



CERTIFICATION

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

Michael D. Oney
Name

Michael D. Oney
Position
Drilling Superintendent

Company
Alpha 21 Production Co.

Date
12-3-82

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 knowledge and belief.

12-1-82

Date Surveyed

Registered Professional Engineer and/or Land Surveyor

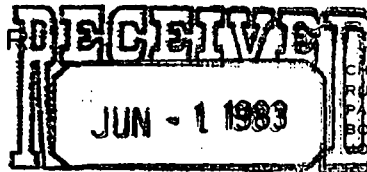
John W. West

Certificate No.
JOHN W. WEST NO. 676

ATWOOD, MALONE, MANN & COOTER

A PROFESSIONAL ASSOCIATION
LAWYERS

JEFF D. ATWOOD [1883-1960]
ROSS L. MALONE [1910-1974]



OIL CONSERVATION DIV.
SANTA FE

P. O. DRAWER 700
SECURITY NATIONAL BANK BUILDING
ROSWELL, NEW MEXICO 88201
[505] 622-6221

CHARLES F. MALONE
RUSSELL D. MANN, P. A.
PAUL A. COOTER
BOB F. TURNER
JOHN W. BASSETT
ROBERT E. SABIN
BRIAN W. COPPLE
ROBERT H. STRAND
STEVEN L. BELL
WILLIAM P. LYNCH
RODNEY M. SCHUMACHER
R. TRACY SPROULS
FREDDIE J. ROMERO
GEORGE D. GIDDENS, JR.

May 4, 1983

State of New Mexico
Department of Energy
Oil Conservation Division
Post Office Box 2088
Santa Fe, New Mexico 87501

ATTN: Mr. Perry Pierce

Re: Application for Infill Drilling Order
Township 19 South, Range 37 East, NMPM
Section 6: SW/4
Lea County, New Mexico
Eumont Gas Pool

Gentlemen:

On behalf of Alpha Twenty-One Production Company, this letter shall constitute our application for an administrative order of the Division finding that an additional well is necessary to effectively drain the Eumont Gas Proration Unit assigned to the SW/4 of Section 6, T-19S, R-37E, NMPM, Lea County, New Mexico.

Continental Oil Company, on September 2, 1954, completed its Conoco State A #6 well in the Eumont Gas Pool at a location in Unit M, 990 FSL and 990 FWL of said Section 6. This well was produced until November 1982, when it was temporarily abandoned, and it has remained in such status to the present time.

Under the terms of a Farmout Agreement with Conoco, Inc., Alpha Twenty-One Production Company, as Operator, has recently drilled and completed its Jo #1 well in the Eumont Gas Pool at a location in Unit N, 1944 FWL and 660 FSL of Section 6. The Jo #1 well was completed on March 14, 1983, and is currently producing, with the gas being sold to El Paso Natural Gas Company. A copy of the completion report for the Jo #1 well is attached hereto.

As noted above, the Conoco A #6 well has been abandoned for some 11 years, and we are attaching hereto a

May 4, 1983

geological report relating to inability of the Conoco A #6 well to effectively drain the entire Eumont Proration Unit assigned thereto, consisting of the SW/4 of Section 6.

Based on the above, and for purposes of filing a Natural Gas Policy Act Ceiling Price Application for the Jo #1 well, and pursuant to division rule 16A 3. and 6a and 18 CFR 271.305, we are requesting the division to enter its administrative order authorizing the drilling of the Jo #1 well as an infill well, and finding that such well is necessary effectively drain all or a portion of the Eumont reservoir under the SW/4 of Section 6, which cannot be effectively and efficiently drained by the abandoned Conoco A #6 well.

Respectfully submitted,

Atwood, Malone, Mann & Cooter, P.A.

By: 

Attorneys for Applicant

RHS/bjt

xc: Mr. Tommy Phipps, Executive Vice President
Alpha Twenty-One Production Company
2100 First National Bank Building
Midland, Texas 79701

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

COPIES RECEIVED	
DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

TYPE OF WELL

OIL WELL ☐ GAS WELL ☒ DRY ☐
TYPE OF COMPLETION
NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐

Name of Operator

Alpha Twenty-One Production Company

Address of Operator

P.O. Box 1206, Jal, NM 88252

Location of Well

SANTA FE

IT LETTER N LOCATED 1944 FEET FROM THE West LINE AND 660 FEET FROM

South LINE OF SEC. 6 TWP. 19-S RGE. 37-E NMPM

Date Spudded 1-7-83 16. Date T.D. Reached 1-16-83 17. Date Compl. (Ready to Prod.) 3-14-83 18. Elevations (DF, RAB, RT, GR, etc.) 3717.4 GL 19. Elev. Casinghead

Total Depth 3950 21. Plug Back T.D. 3939 22. If Multiple Compl., How Many 23. Intervals Drilled By Rotary Tools 3950 Cable Tools

Producing Interval(s), of this completion. - Top, Bottom, Name

3755 - 3813 (Queen)

25. Was Directional Survey Made

Yes

Type Electric and Other Logs Run

CDN, FORKO

27. Was Well Cored

No

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
12-3/4"	30	30'	15"	Redimix to surface	
8-5/8"	23	422.11'	12-1/4"	250 sx Cl.C, CACL. Circ.	
5-1/2"	14	3942.73'	7-7/8"	450 sx Hal/Lite, 325 sx 50/50 Poz C. Circ.	

LINER RECORD

10. TUBING RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2-3/8"	3809.27'	non3

Perforation Record (Interval, size and number)

3755, 3759, 3764, 3768, 3769, 3770, 3771, 3772, 3774, 3807, 3808, 3809, 3810, 3812, 3813 (15 Dia) 15 Perfs

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
3755 - 3813	2 1/2 bbls + 3900 gals 15% mud ac
3755 - 3813	50000 gals frac fluid with 1000 sx sand

PRODUCTION

First Production 3-14-83 Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing Well Status (Prod. or Shut-in) Producing Shut-in

Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
3-18-83	24	32/64		2	469	10	234500/1
Test Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.)	
60	110		2	469	10	38.6 @ 60°	

Disposition of Gas (Sold, used for fuel, vented, etc.)

Vented

Test Witnessed By

R. Lansford

List of Attachments

Electric Logs, Deviation Survey

I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED

R.W. Lansford

TITLE Vice Pres/Energy Resources

DATE 3-25-83

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any new or extended deepened well. It shall be accompanied by one copy of all electrical and radioactivity log run on the well and a summary of all log data. The log shall include, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depth shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in duplicate (one original and one copy) where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy _____ 1402	T. Canyon _____	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt _____	T. Strawn _____	T. Kirtland-Fruitland _____	T. Penn. "C" _____
T. Salt _____	T. Atoka _____	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates _____ 2712	T. Miss _____	T. Cliff House _____	T. Leadville _____
T. 7 Rivers _____	T. Devonian _____	T. Menefee _____	T. Madison _____
T. Queen _____ 3538	T. Silurian _____	T. Point Lookout _____	T. Elbert _____
T. Grayburg _____	T. Montoya _____	T. Mancos _____	T. McCracken _____
T. San Andres _____	T. Simpson _____	T. Gallup _____	T. Ignacio Garte _____
T. Glorieta _____	T. McKee _____	Base Greenhorn _____	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota _____	T. _____
T. Blaineby _____	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb _____	T. Granite _____	T. Todillo _____	T. _____
T. Drinkard _____	T. Delaware Sand _____	T. Entrada _____	T. _____
T. Abo _____	T. Bone Springs _____	T. Wingate _____	T. _____
T. Wolfcamp _____	T. _____	T. Chinle _____	T. _____
T. Penn. _____	T. _____	T. Permian _____	T. _____
T. Cisco (Bough C) _____	T. _____	T. Penn. "A" _____	T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from _____ to _____	No. 4, from _____ to _____
No. 2, from _____ to _____	No. 5, from _____ to _____
No. 3, from _____ to _____	No. 6, from _____ to _____

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

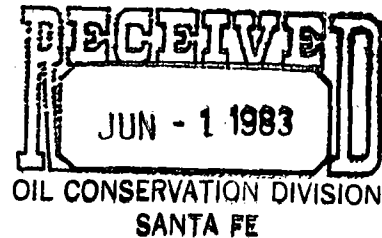
No. 1, from _____ to _____ feet	_____
No. 2, from _____ to _____ feet	_____
No. 3, from _____ to _____ feet	_____
No. 4, from _____ to _____ feet	_____

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	1402	1402	Red Bed, Sand				
1402	2712	1310	Salt, Anhydrite				
2712	3538	826	Sand, Anhydrite, Dolomite				
3538	TD	412	Sand, Dolomite				

May 2, 1983

Robert H. Strand
Atwood, Malone, Mann and Cooter
P.O. Drawer 700
Roswell, New Mexico 88201



RE: Drainage - SW1/4, Section 6
T-19-S, R-37-E, Lea County,
New Mexico.

Dear Mr. Strand,

You have requested my geological opinion regarding gas drainage from the Eumont Gas Pool of the referenced acreage.

It is my opinion that the 160 acre Eumont Gas proration unit in the SW1/4 Section 6, T-19-S, R-37-E, Lea County, New Mexico has not been adequately drained by the Conoco State A #6 for the following reasons:

- a. The producing sands are several and dispersed over approximately an 1100 foot interval. These sands are lenticular and the porosity and permibility of the producing zones vary considerably.
- b. The Conoco State A #6 had a significantly lower cumulative production, 1020 MMCFG, at temporary abandonment than the offset wells. The east offset, Texaco State C #1 had a cumulative on January 1, 1982 of 4059 MMCFG and was still producing. Shells State #1, south offset has a cumulative of 2457 MMCFG on January 1, 1982 and was still producing.
- c. The SITP on the Alpha Jo #1 was 180 psi on March 16, 1983, indicating a reservoir capable of sustained gas production.
- d. Monthly production from the Alpha Jo #1 will be approximately 6 MMCFG as of this date.

If I can be of further assistance in this matter, please contact me.

Yours very truly,

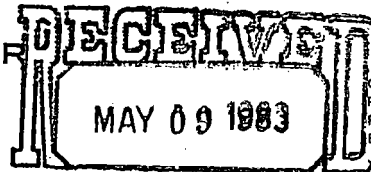

Jack D. Mussett

cc: Mr. Tommy Phipps
Alpha Twenty-One Production Company
2100 First National Bank Building
Midland, Texas 79701

ATWOOD, MALONE, MANN & COOTER

A PROFESSIONAL ASSOCIATION
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OIL CONSERVATION DIVISION
SANTA FE

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WILLIAM P. LYNCH
RODNEY M. SCHUMACHER
R. TRACY SPROULS
FREDDIE J. ROMERO

May 4, 1983

State of New Mexico
Department of Energy
Oil Conservation Division
Post Office Box 2088
Santa Fe, New Mexico 87501

ATTN: Mr. Perry Pierce

Re: Application for Infill Drilling Order
Township 19 South, Range 37 East, NMPM
Section 6: SW/4
Lea County, New Mexico
Eumont Gas Pool

Gentlemen:

On behalf of Alpha Twenty-One Production Company, this letter shall constitute our application for an administrative order of the division finding that an additional well is necessary to effectively drain the Eumont Gas Proration Unit assigned to the SW/4 of Section 6, T-19S, R-37E, NMPM, Lea County, New Mexico.

Continental Oil Company, on September 2, 1954, completed its Conoco State A #6 well in the Eumont Gas Pool at a location in Unit M, 990 FSL and 990 FWL of said Section 6. This well was produced until November, 1972, when it was temporarily abandoned, and it has remained in such status to the present time.

Under the terms of a Farmout Agreement with Conoco, Inc., Alpha Twenty-One Production Company, as Operator, has recently drilled and completed its Jo #1 well in the Eumont Gas Pool at a location in Unit N, 1944 FWL and 660 FSL of Section 6. The Jo #1 well was completed on March 14, 1983, and is currently producing, with the gas being sold to El Paso Natural Gas Company. A copy of the completion report for the Jo #1 well is attached hereto.

As noted above, the Conoco A #6 well has been abandoned for some 11 years, and we are attaching hereto a

May 4, 1983

geological report relating to inability of the Conoco A #6 well to effectively drain the entire Eumont Proration Unit assigned thereto, consisting of the SW/4 of Section 6.

Based on the above, and for purposes of filing a Natural Gas Policy Act Ceiling Price Application for the Jo #1 well, and pursuant to division rule 16A 3. and 6a and 18 CFR 271.305, we are requesting the division to enter its administrative order authorizing the drilling of the Jo #1 well as an infill well, and finding that such well is necessary effectively drain all or a portion of the Eumont reservoir under the SW/4 of Section 6, which cannot be effectively and efficiently drained by the abandoned Conoco A #6 well.

Respectfully submitted,

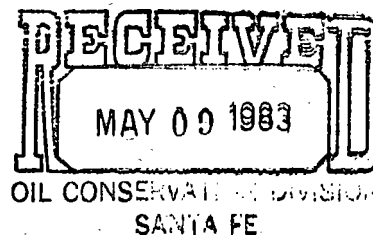
Atwood, Malone, Mann & Cooter, P.A.

By: 

Attorneys for Applicant

RHS/bjt

xc: Mr. Tommy Phipps, Executive Vice President
Alpha Twenty-One Production Company
2100 First National Bank Building
Midland, Texas 79701



May 2, 1983

Robert H. Strand
Atwood, Malone, Mann and Cooter
P.O. Drawer 700
Roswell, New Mexico 88201

RE: Drainage - SW1/4, Section 6
T-19-S, R-37-E, Lea County,
New Mexico.

Dear Mr. Strand,

You have requested my geological opinion regarding gas drainage from the Eumont Gas Pool of the referenced acreage.

It is my opinion that the 160 acre Eumont Gas proration unit in the SW1/4 Section 6, T-19-S, R-37-E, Lea County, New Mexico has not been adequately drained by the Conoco State A #6 for the following reasons:

- a. The producing sands are several and dispersed over approximately an 1100 foot interval. These sands are lenticular and the porosity and permibility of the producing zones vary considerably.
- b. The Conoco State A #6 had a significantly lower cumulative production, 1020 MMCFG, at temporary abandonment than the offset wells. The east offset, Texaco State C #1 had a cumulative on January 1, 1982 of 4059 MMCFG and was still producing. Shells State #1, south offset has a cumulative of 2457 MMCFG on January 1, 1982 and was still producing.
- c. The SITP on the Alpha Jo #1 was 180 psi on March 16, 1983, indicating a reservoir capable of sustained gas production.
- d. Monthly production from the Alpha Jo #1 will be approximately 6 MMCFG as of this date.

If I can be of further assistance in this matter, please contact me.

Yours very truly,


Jack D. Mussett

cc: Mr. Tommy Phipps
Alpha Twenty-One Production Company
2100 First National Bank Building
Midland, Texas 79701

OIL CONSERVATION DIVISION

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

NO. OF COPIES RECEIVED	
DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

5a. Indicate Type of Lease
State <input checked="" type="checkbox"/> Fee <input type="checkbox"/>
5. State Oil & Gas Lease No.

TYPE OF WELL

TYPE OF COMPLETION

NEW WELL ☒

WORK OVER ☐

DEEPEN ☐

PLUG BACK ☐

DIFF. RESVR. ☐

OIL WELL ☐

GAS WELL ☒

DRY ☐

OTHER

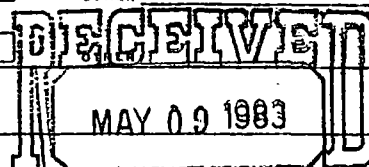
Name of Operator

Alpha Twenty-One Production Company

Address of Operator

P.O. Box 1206, Jal, NM 88252

Location of Well



OIL CONSERVATION DIVISION
SANTA FE

7. Unit Agreement Name

8. Form or Lease Name

Jo

9. Well No.

1

10. Field and Pool, or Wildcat

Eumont Gas

12. County

Lea

BY LETTER N LOCATED 1944 FEET FROM THE West LINE AND 660 FEET FROM

South LINE OF SEC. 6 TWP. 19-S RGE. 37-E NMPM

1. Date Spudded 1-7-83	16. Date T.D. Reached 1-16-83	17. Date Compl. (Ready to Prod.) 3-14-83	18. Elevations (DF, RKB, RT, GR, etc.) 3717.4 GL	19. Elev. Casinghead
---------------------------	----------------------------------	---	---	----------------------

2. Total Depth 3950	21. Plug Back T.D. 3939	22. If Multiple Compl., How Many	23. Intervals Drilled By Rotary Tools 3950	Cable Tools
------------------------	----------------------------	----------------------------------	--	-------------

Producing Interval(s), of this completion. - Top, Bottom, Name

3755 - 3813 (Queen)

25. Was Directional Survey Made

Yes

2. Type Electric and Other Logs Run
CDN, FORXO

27. Was Well Cored
No

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
12-3/4"	30	30'	15"	Redimix to surface	
8-5/8"	23	422.11'	12-1/4"	250 sx Cl.C, CACL. Circ.	
5-1/2"	14	3942.73'	7-7/8"	450 sx Hal/Lite, 325 sx 50/50 Poz C. Circ.	

LINER RECORD

30. TUBING RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2-3/8"	3809.27'	non3

1. Perforation Record (Interval, size and number)

3755, 3759, 3764, 3768, 3769, 3770, 3771, 3772, 3774, 3807, 3808, 3809, 3810, 3812, 3813 (15 Dia) 15 Perfs

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
3755 - 3813	2 1/2 bbls + 3900 gals 15% mud acid
3755 - 3813	50000 gals frac fluid with 1000 sx sand

PRODUCTION

Date First Production 3-14-83		Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing				Well Status (Prod. or Shut-in) Producing SHUT-IN	
Date of Test 3-18-83	Hours Tested 24	Choke Size 32/64	Prod'n. For Test Period → 2	Oil - Bbl. 469	Gas - MCF 10	Water - Bbl. 234500/1	Gas - Oil Ratio
Flow Tubing Press. 60	Casing Pressure 110	Calculated 24-Hour Rate → 2	Oil - Bbl. 469	Gas - MCF 10	Water - Bbl. 38.6 @ 60°	Oil Gravity - API (Corr.)	

21. Disposition of Gas (Sold, used for fuel, vented, etc.)

Vented

Test Witnessed By

R. Lansford

22. List of Attachments

Electric Logs, Deviation Survey

I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED R.W. Lansford

TITLE Vice Pres/Energy Resources

DATE 3-25-83

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly started and deepened well. It shall be accompanied by one copy of all electrical and radioactivity logs run on the well and a summary of all logs if the well is cased, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depth shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quadruplicate in each of the state land, where six copies are required, See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy 1402	T. Canyon	T. Ojo Alamo	T. Penn. "B"
T. Salt	T. Strawn	T. Kirtland-Fruitland	T. Penn. "C"
B. Salt	T. Atoka	T. Pictured Cliffs	T. Penn. "D"
T. Yates 2712	T. Miss	T. Cliff House	T. Leadville
T. 7 Rivers	T. Devonian	T. Menefee	T. Madison
T. Queen 3538	T. Silurian	T. Point Lookout	T. Elbert
T. Grayburg	T. Montoya	T. Mancos	T. McCracken
T. San Andres	T. Simpson	T. Gallup	T. Ignacio Quartz
T. Glorieta	T. McKee	Base Greenhorn	T. Granite
T. Paddock	T. Ellenburger	T. Dakota	T.
T. Blinberry	T. Gr. Wash	T. Morrison	T.
T. Tubb	T. Granite	T. Todilto	T.
T. Drinkard	T. Delaware Sand	T. Entrada	T.
T. Abo	T. Bone Springs	T. Wingate	T.
T. Wolfcamp	T.	T. Chinle	T.
T. Penn.	T.	T. Permian	T.
T. Cisco (Bough C)	T.	T. Penn. "A"	T.

OIL OR GAS SANDS OR ZONES

No. 1, from.....to.....	No. 4, from.....to.....
No. 2, from.....to.....	No. 5, from.....to.....
No. 3, from.....to.....	No. 6, from.....to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....	feet.....
No. 2, from.....to.....	feet.....
No. 3, from.....to.....	feet.....
No. 4, from.....to.....	feet.....

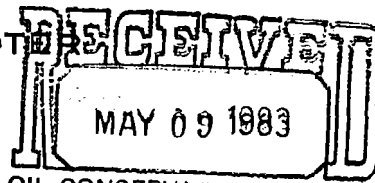
FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	1402	1402	Red Bed, Sand				
1402	2712	1310	Salt, Anhydrite				
2712	3538	826	Sand, Anhydrite, Dolomite				
3538	TD	412	Sand, Dolomite				

ATWOOD, MALONE, MANN & COOTER

A PROFESSIONAL ASSOCIATION
LAWYERS

JEFF D. ATWOOD [1883-1960]
ROSS L. MALONE [1910-1974]



P. O. DRAWER 100
SECURITY NATIONAL BANK BUILDING
ROSWELL, NEW MEXICO 88201
[505] 622-6221

CHARLES F. MALONE
RUSSELL D. MANN, P. A.
PAUL A. COOTER
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JOHN W. BASSETT
ROBERT E. SABIN
BRIAN W. COPPLE
ROBERT H. STRAND
STEVEN L. BELL
WILLIAM P. LYNCH
RODNEY M. SCHUMACHER
R. TRACY SPROULS
FREDDIE J. ROMERO

May 4, 1983

State of New Mexico
Department of Energy
Oil Conservation Division
Post Office Box 2088
Santa Fe, New Mexico 87501

ATTN: Mr. Perry Pierce

Re: Application for Infill Drilling Order
Township 19 South, Range 37 East, NMPM
Section 6: SW/4
Lea County, New Mexico
Eumont Gas Pool

Gentlemen:

On behalf of Alpha Twenty-One Production Company, this letter shall constitute our application for an administrative order of the division finding that an additional well is necessary to effectively drain the Eumont Gas Proration Unit assigned to the SW/4 of Section 6, T-19S, R-37E, NMPM, Lea County, New Mexico.

Continental Oil Company, on September 2, 1954, completed its Conoco State A #6 well in the Eumont Gas Pool at a location in Unit M, 990 FSL and 990 FWL of said Section 6. This well was produced until November, 1972, when it was temporarily abandoned, and it has remained in such status to the present time.

Under the terms of a Farmout Agreement with Conoco, Inc., Alpha Twenty-One Production Company, as Operator, has recently drilled and completed its Jo #1 well in the Eumont Gas Pool at a location in Unit N, 1944 FWL and 660 FSL of Section 6. The Jo #1 well was completed on March 14, 1983, and is currently producing, with the gas being sold to El Paso Natural Gas Company. A copy of the completion report for the Jo #1 well is attached hereto.

As noted above, the Conoco A #6 well has been abandoned for some 11 years, and we are attaching hereto a

May 4, 1983

geological report relating to inability of the Conoco A #6 well to effectively drain the entire Eumont Proration Unit assigned thereto, consisting of the SW/4 of Section 6.

Based on the above, and for purposes of filing a Natural Gas Policy Act Ceiling Price Application for the Jo #1 well, and pursuant to division rule 16A 3. and 6a and 18 CFR 271.305, we are requesting the division to enter its administrative order authorizing the drilling of the Jo #1 well as an infill well, and finding that such well is necessary effectively drain all or a portion of the Eumont reservoir under the SW/4 of Section 6, which cannot be effectively and efficiently drained by the abandoned Conoco A #6 well.

Respectfully submitted,

Atwood, Malone, Mann & Cooter, P.A.

By: 

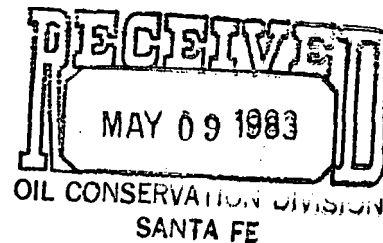
Attorneys for Applicant

RHS/bjt

xc: Mr. Tommy Phipps, Executive Vice President
Alpha Twenty-One Production Company
2100 First National Bank Building
Midland, Texas 79701

JACK D. MUSSETT
GEOLOGIST

604 Petroleum Building Midland, Texas 79701 915 684-9081



May 2, 1983

Robert H. Strand
Atwood, Malone, Mann and Cooter
P.O. Drawer 700
Roswell, New Mexico 88201

RE: Drainage - SW1/4, Section 6
T-19-S, R-37-E, Lea County,
New Mexico.

Dear Mr. Strand,

You have requested my geological opinion regarding gas drainage from the Eumont Gas Pool of the referenced acreage.

It is my opinion that the 160 acre Eumont Gas proration unit in the SW1/4 Section 6, T-19-S, R-37-E, Lea County, New Mexico has not been adequately drained by the Conoco State A #6 for the following reasons:

- a. The producing sands are several and dispersed over approximately an 1100 foot interval. These sands are lenticular and the porosity and permibility of the producing zones vary considerably.
- b. The Conoco State A #6 had a significantly lower cumulative production, 1020 MMCFG, at temporary abandonment than the offset wells. The east offset, Texaco State C #1 had a cumulative on January 1, 1982 of 4059 MMCFG and was still producing. Shells State #1, south offset has a cumulative of 2457 MMCFG on January 1, 1982 and was still producing.
- c. The SITP on the Alpha Jo #1 was 180 psi on March 16, 1983, indicating a reservoir capable of sustained gas production.
- d. Monthly production from the Alpha Jo #1 will be approximately 6 MMCFG as of this date.

If I can be of further assistance in this matter, please contact me.

Yours very truly,


Jack D. Mussett

cc: Mr. Tommy Phipps
Alpha Twenty-One Production Company
2100 First National Bank Building
Midland, Texas 79701

OIL CONSERVATION DIVISION

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

NO. OF COPIES RECEIVED	
DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

TYPE OF WELL

TYPE OF COMPLETION

NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ DRY ☐ GAS WELL ☒ OIL WELL ☐

Name of Operator

Alpha Twenty-One Production Company

Address of Operator

P.O. Box 1206, Jal, NM 88252

Location of Well

IT LETTER N LOCATED 1944 FEET FROM THE West LINE AND 660 FEET FROM

South LINE OF SEC. 6 TWP. 19-S RGE. 37-E NMPM

Date Spudded 1-7-83 16. Date T.D. Reached 1-16-83 17. Date Compl. (Ready to Prod.) 3-14-83 18. Elevations (DF, RKB, RT, GR, etc.) 3717.4 GL 19. Elev. Casinghead

Total Depth 3950 21. Plug Back T.D. 3939 22. If Multiple Compl., How Many 3950 23. Interval Drilled By Rotary Tools Cable Tools

Producing Interval(s), of this completion. — Top, Bottom, Name

3755 - 3813 (Queen)

25. Was Directional Survey Made

Yes

Type Electric and Other Logs Run
CDN, FORXO

27. Was Well Cored
No

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
12-3/4"	30	30'	15"	Redimix to surface	
8-5/8"	23	422.11'	12-1/4"	250 sx Cl.C, CACL. Circ.	
5-1/2"	14	3942.73'	7-7/8"	450 sx Hal/Lite, 325 sx 50/50 Poz C. Circ.	

LINER RECORD

30. TUBING RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2-3/8"	3809.27	non3

1. Perforation Record (Interval, size and number)

3755, 3759, 3764, 3768, 3769, 3770, 3771, 3772, 3774, 3807, 3808, 3809, 3810, 3812, 3813 (15 Dia) 15 Perfs

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
3755 - 3813	2 1/2 bbls + 3900 gals 15% mud acid
3755 - 3813	50000 gals frac fluid with 1000 sx sand

PRODUCTION

1st Production 3-14-83		Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing					Well Status (Prod. or Shut-in) Producing <u>SHUT-IN</u>	
Date of Test 3-18-83	Hours Tested 24	Choke Size 32/64	Prod'n. For Test Period →	Oil - Bbl. 2	Gas - MCF 469	Water - Bbl. 10	Gas - Oil Ratio 234500/1	
Well Tubing Press. 60	Casing Pressure 110	Calculated 24- Hour Rate →	Oil - Bbl. 2	Gas - MCF 469	Water - Bbl. 10	Oil Gravity - API (Corr.) 38.6 @ 60°		

Disposition of Gas (Sold, used for fuel, vented, etc.)

Vented

Test Witnessed By

R. Lansford

List of Attachments

Electric Logs, Deviation Survey

I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED

R.W. Lansford

TITLE Vice Pres/Energy Resources

DATE 3-25-83

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of a new well, or after the completion of a deepened well. It shall be accompanied by one copy of all electrical and radioactivity logs run on the well and a summary of all logs run on the well. The logs shall include, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depth shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in duplicate with the appropriate state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy <u>1402</u>	T. Canyon	T. Ojo Alamo	T. Penn. "B"
T. Salt	T. Strawn	T. Kirtland-Fruitland	T. Penn. "C"
B. Salt	T. Atoka	T. Pictured Cliffs	T. Penn. "D"
T. Yates <u>2712</u>	T. Miss	T. Cliff House	T. Leadville
T. 7 Rivers	T. Devonian	T. Menefee	T. Madison
T. Queen <u>3538</u>	T. Silurian	T. Point Lookout	T. Elbert
T. Grayburg	T. Montoya	T. Mancos	T. McCracken
T. San Andres	T. Simpson	T. Gallup	T. Ignacio Garte
T. Glorieta	T. McKee	Base Greenhorn	T. Granite
T. Paddock	T. Ellenburger	T. Dakota	T.
T. Blinberry	T. Gr. Wash	T. Morrison	T.
T. Tubb	T. Granite	T. Todilto	T.
T. Drinkard	T. Delaware Sand	T. Entrada	T.
T. Abo	T. Bone Springs	T. Wingate	T.
T. Wolfcamp	T.	T. Chinle	T.
T. Penn.	T.	T. Permian	T.
T. Cisco (Bough C)	T.	T. Penn. "A"	T.

OIL OR GAS SANDS OR ZONES

No. 1, from.....to.....	No. 4, from.....to.....
No. 2, from.....to.....	No. 5, from.....to.....
No. 3, from.....to.....	No. 6, from.....to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....
No. 2, from.....to.....feet.....
No. 3, from.....to.....feet.....
No. 4, from.....to.....feet.....

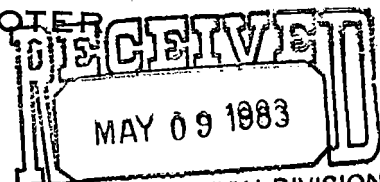
FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	1402	1402	Red Bed, Sand				
1402	2712	1310	Salt, Anhydrite				
2712	3538	826	Sand, Anhydrite, Dolomite				
3538	TD	412	Sand, Dolomite				

ATWOOD, MALONE, MANN & COOTER

A PROFESSIONAL ASSOCIATION
LAWYERS

JEFF D. ATWOOD [1883-1960]
ROSS L. MALONE [1910-1974]



OIL CONSERVATION DIVISION
SECURITY NATIONAL BANK BUILDING
ROSWell, NEW MEXICO 88201
[505] 622-6221

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STEVEN L. BELL

WILLIAM P. LYNCH
RODNEY M. SCHUMACHER
R. TRACY SPROULS
FREDDIE J. ROMERO

May 4, 1983

State of New Mexico
Department of Energy
Oil Conservation Division
Post Office Box 2088
Santa Fe, New Mexico 87501

ATTN: Mr. Perry Pierce

Re: Application for Infill Drilling Order
Township 19 South, Range 37 East, NMPM
Section 6: SW/4
Lea County, New Mexico
Eumont Gas Pool

Gentlemen:

On behalf of Alpha Twenty-One Production Company, this letter shall constitute our application for an administrative order of the division finding that an additional well is necessary to effectively drain the Eumont Gas Proration Unit assigned to the SW/4 of Section 6, T-19S, R-37E, NMPM, Lea County, New Mexico.

Continental Oil Company, on September 2, 1954, completed its Conoco State A #6 well in the Eumont Gas Pool at a location in Unit M, 990 FSL and 990 FWL of said Section 6. This well was produced until November, 1972, when it was temporarily abandoned, and it has remained in such status to the present time.

Under the terms of a Farmout Agreement with Conoco, Inc., Alpha Twenty-One Production Company, as Operator, has recently drilled and completed its Jo #1 well in the Eumont Gas Pool at a location in Unit N, 1944 FWL and 660 FSL of Section 6. The Jo #1 well was completed on March 14, 1983, and is currently producing, with the gas being sold to El Paso Natural Gas Company. A copy of the completion report for the Jo #1 well is attached hereto.

As noted above, the Conoco A #6 well has been abandoned for some 11 years, and we are attaching hereto a

May 4, 1983

geological report relating to inability of the Conoco A #6 well to effectively drain the entire Eumont Proration Unit assigned thereto, consisting of the SW/4 of Section 6.

Based on the above, and for purposes of filing a Natural Gas Policy Act Ceiling Price Application for the Jo #1 well, and pursuant to division rule 16A 3. and 6a and 18 CFR 271.305, we are requesting the division to enter its administrative order authorizing the drilling of the Jo #1 well as an infill well, and finding that such well is necessary effectively drain all or a portion of the Eumont reservoir under the SW/4 of Section 6, which cannot be effectively and efficiently drained by the abandoned Conoco A #6 well.

Respectfully submitted,

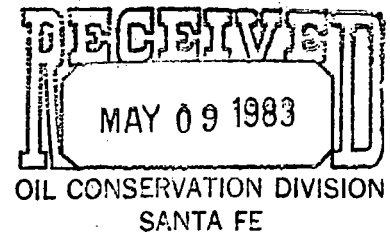
Atwood, Malone, Mann & Cooter, P.A.

By: 

Attorneys for Applicant

RHS/bjt

xc: Mr. Tommy Phipps, Executive Vice President
Alpha Twenty-One Production Company
2100 First National Bank Building
Midland, Texas 79701



May 2, 1983

Robert H. Strand
Atwood, Malone, Mann and Cooter
P.O. Drawer 700
Roswell, New Mexico 88201

RE: Drainage - SW1/4, Section 6
T-19-S, R-37-E, Lea County,
New Mexico.

Dear Mr. Strand,

You have requested my geological opinion regarding gas drainage from the Eumont Gas Pool of the referenced acreage.

It is my opinion that the 160 acre Eumont Gas proration unit in the SW1/4 Section 6, T-19-S, R-37-E, Lea County, New Mexico has not been adequately drained by the Conoco State A #6 for the following reasons:

- a. The producing sands are several and dispersed over approximately an 1100 foot interval. These sands are lenticular and the porosity and permibility of the producing zones vary considerably.
- b. The Conoco State A #6 had a significantly lower cumulative production, 1020 MMCFG, at temporary abandonment than the offset wells. The east offset, Texaco State C #1 had a cumulative on January 1, 1982 of 4059 MMCFG and was still producing. Shells State #1, south offset has a cumulative of 2457 MMCFG on January 1, 1982 and was still producing.
- c. The SITP on the Alpha Jo #1 was 180 psi on March 16, 1983, indicating a reservoir capable of sustained gas production.
- d. Monthly production from the Alpha Jo #1 will be approximately 6 MMCFG as of this date.

If I can be of further assistance in this matter, please contact me.

Yours very truly,


Jack D. Mussett

cc: Mr. Tommy Phipps
Alpha Twenty-One Production Company
2100 First National Bank Building
Midland, Texas 79701

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

NO. OF COPIES RECEIVED	
DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

TYPE OF WELL

TYPE OF COMPLETION

NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ DRY ☐

Name of Operator

Alpha Twenty-One Production Company

Address of Operator

P.O. Box 1206, Jal, NM 88252

Location of Well

BY LETTER N LOCATED 1944 FEET FROM THE West LINE AND 660 FEET FROM

South LINE OF SEC. 6 TWP. 19-S RGE. 37-E NMPM

Date Spudded 1-7-83 16. Date T.D. Reached 1-16-83 17. Date Compl. (Ready to Prod.) 3-14-83 18. Elevations (DF, RAB, RT, GR, etc.) 3717.4 GL 19. Elev. Casinghead

Total Depth 3950 21. Plug Back T.D. 3939 22. If Multiple Compl., How Many 23. Intervals Drilled By Rotary Tools 3950 Cable Tools

Producing Interval(s), of this completion. — Top, Bottom, Name

3755 - 3813 (Queen)

25. Was Directional Survey Made

Yes

Type Electric and Other Logs Run
CDN, FORXO

27. Was Well Cored
No

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
12-3/4"	30	30'	15"	Redimix to surface	
8-5/8"	23	422.11'	12-1/4"	250 sx Cl.C, CACL. Circ.	
5-1/2"	14	3942.73'	7-7/8"	450 sx Hal/Lite, 325 sx 50/50 Poz C. Circ.	

LINER RECORD

30. TUBING RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2-3/8"	3809.27	non3

1. Perforation Record (Interval, size and number)

3755, 3759, 3764, 3768, 3769, 3770, 3771, 3772, 3774, 3807, 3808, 3809, 3810, 3812, 3813 (15 Dia) 15 Perfs

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
3755 - 3813	2 1/2 bbls + 3900 gals 15% mud acid
3755 - 3813	50000 gals frac fluid with 1000 sx sand

PRODUCTION

1st Production 3-14-83		Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing				Well Status (Prod. or Shut-in) Producing SHUT-IN	
Date of Test 3-18-83	Hours Tested 24	Choke Size 32/64	Prod'n. For Test Period →	Oil - Bbl. 2	Gas - MCF 469	Water - Bbl. 10	Gas - Oil Ratio 234500/1
Flow Tubing Press. 60	Casing Pressure 110	Calculated 24- Hour Rate →	Oil - Bbl. 2	Gas - MCF 469	Water - Bbl. 10	Oil Gravity - API (Corr.) 38.6 @ 60°	

Disposition of Gas (Sold, used for fuel, vented, etc.)

Vented

Test Witnessed By

R. Lansford

List of Attachments

Electric Logs, Deviation Survey

I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED

R.W. Lansford

TITLE Vice Pres/Energy Resources

DATE 3-25-83

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of a well, whether or not it is a completed well. It shall be accompanied by one copy of all electrical and radioactivity logs run on the well and a summary of all log data obtained, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depth shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in duplicate in the appropriate District Office, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy <u>1402</u>	T. Canyon _____	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt _____	T. Strawn _____	T. Kirtland-Fruitland _____	T. Penn. "C" _____
T. Salt _____	T. Atoka _____	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates <u>2712</u>	T. Miss _____	T. Cliff House _____	T. Leadville _____
T. 7 Rivers _____	T. Devonian _____	T. Menefee _____	T. Madison _____
T. Queen <u>3538</u>	T. Silurian _____	T. Point Lookout _____	T. Elbert _____
T. Grayburg _____	T. Montoya _____	T. Mancos _____	T. McCracken _____
T. San Andres _____	T. Simpson _____	T. Gallup _____	T. Ignacio Grite _____
T. Glorieta _____	T. McKee _____	Base Greenhorn _____	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota _____	T. _____
T. Blinberry _____	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb _____	T. Granite _____	T. Todillo _____	T. _____
T. Drinkard _____	T. Delaware Sand _____	T. Entrada _____	T. _____
T. Abo _____	T. Bone Springs _____	T. Wingate _____	T. _____
T. Wolfcamp _____	T. _____	T. Chinle _____	T. _____
T. Penn. _____	T. _____	T. Permian _____	T. _____
T. Cisco (Bough C) _____	T. _____	T. Penn. "A" _____	T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from _____ to _____	No. 4, from _____ to _____
No. 2, from _____ to _____	No. 5, from _____ to _____
No. 3, from _____ to _____	No. 6, from _____ to _____

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from _____ to _____	feet _____
No. 2, from _____ to _____	feet _____
No. 3, from _____ to _____	feet _____
No. 4, from _____ to _____	feet _____

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	1402	1402	Red Bed, Sand				
1402	2712	1310	Salt, Anhydrite				
2712	3538	826	Sand, Anhydrite, Dolomite				
3538	TD	412	Sand, Dolomite				

NEW MEXICO
OIL CONSERVATION COMMISSION

Gas Well Plat

Date 9/7/54

Continental Oil Co.
Operator

State A-6
Lease

1
Well No.

Name of Producing Formation Queen Pool Eumont

No. Acres Dedicated to the Well 160

SECTION 6 TOWNSHIP 19 RANGE 37

1 ⊗		Spud: 7/29/54 990' FS + WL Well was disconnected May 10, 1973 Cumulative Prod: 1,020,755 MCF	

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

Name
Position Superintendent
Representing Continental Oil Co.
Address Box 427, Hobbs, N. M.

(over)

NEW MEXICO
OIL CONSERVATION COMMISSION

Gas Well Plat

Date 9/7/54

Continental Oil Co. State A-6 1
Operator Lease Well No.

Name of Producing Formation Queen Pool Emmont

No. Acres Dedicated to the Well 160

SECTION 6 TOWNSHIP 19 RANGE 37

<div>1 ⚙</div>		<div>Spud: 7/29/54 990' FS + WL Well was disconnected May 10, 1973 Cumulative Prod: 1020,755 MCF</div>	

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

Name [Signature]
Position Superintendent
Representing Continental Oil Co.
Address Box 427, Hobbs, N. M.

(over)

NEW MEXICO
OIL CONSERVATION COMMISSION

Gas Well Plat

Date 9/7/54

Continental Oil Co. State A-6 Well No. 1
Operator Lease

Name of Producing Formation Queen Pool Emont

No. Acres Dedicated to the Well 160

SECTION 6 TOWNSHIP 19 RANGE 37

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(over)

NEW MEXICO
OIL CONSERVATION COMMISSION

Gas Well Plat

DATE OFFICE COO
Date 9/7/54

CONTINENTAL OIL CO.
Operator

State A-6
Lease

1 1 14
Well No.

Name of Producing Formation Queen Pool Eumont

No. Acres Dedicated to the Well 160

SECTION 6 TOWNSHIP 19 RANGE 37

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(over)

NEW MEXICO
OIL CONSERVATION COMMISSION

Gas Well Plat

DATE 9/7/54

Continental Oil Co.
Operator

State A-6
Lease

Well No.

Name of Producing Formation Queen Pool Emmont

No. Acres Dedicated to the Well 160

SECTION 6 TOWNSHIP 19 RANGE 37

1 ⊙			

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Representing Continental Oil Co.
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(over)

NEW MEXICO
OIL CONSERVATION COMMISSION

Gas Well Plat

Date 9/7/54

Continental Oil Co.
Operator

State A-6

Lease

Well No. 1-1-1-1

Name of Producing Formation Queen Pool Eumont

No. Acres Dedicated to the Well 160

SECTION 6 TOWNSHIP 19 RANGE 37

1 ⊙			

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

Name [Signature]

Position Superintendent

Representing Continental Oil Co.

Address Box 427, Hobbs, N. M.

(over)

NEW MEXICO
OIL CONSERVATION COMMISSION

Gas Well Plat

Date 9/7/54

Continental Oil Co.
Operator

State A-6
Lease

1
Well No.

Name of Producing Formation Queen Pool Eumont

No. Acres Dedicated to the Well 160

SECTION 6 TOWNSHIP 19 RANGE 37

1 ☼			

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Position Superintendent
Representing Continental Oil Co.
Address Box 427, Hobbs, N. M.

(over)

NEW MEXICO
OIL CONSERVATION COMMISSION

Gas Well Plat

DATE 9/7/54

Continental Oil Co.
Operator

State A-6

Lease

Well No. 1-1-15

Name of Producing Formation Queen Pool Eumont

No. Acres Dedicated to the Well 160

SECTION 6 TOWNSHIP 19 RANGE 37

1 ⊙			

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

Name [Signature]

Position Superintendent

Representing Continental Oil Co.

Address Box 427, Hobbs, N. M.

(over)

WELL S T R YR. OIL MP YR WATER YR. GAS O-G CUM OIL CUM WATER CUM GAS ST POOL NAME OPERATOR LEASE NAME LAND

MONTHLY TOTALS ARE THRU MONTH OF DECEMBER
MONTHLY TOTALS ARE ADDED TO CUMULATIVE TOTALS

LEA COUNTY*****

16E 4 19537E	F			31009	170	725486	S	EUMONT YATES S*GETTY OIL C3*EAST	EUMONT UNIT*UP
17F 4 19537E	F			29033	229	451363	S	EUMONT YATES S*GETTY OIL C3*EAST	EUMONT UNIT*UP
18G 4 19537E				6930		499	S	EUMONT YATES S*GETTY OIL C3*EAST	EUMONT UNIT*UP
19H 4 19537E				25450	27	60838	S	EUMONT YATES S*GETTY OIL C3*EAST	EUMONT UNIT*UP
22I 4 19537E				20667	107	34858	S	EUMONT YATES S*GETTY OIL C3*EAST	EUMONT UNIT*UP
1J 4 19537E				134				FOLLOWING WELL PLUGGED AND ABANDONED 1960	
2L 4 19537E				374				EUMONT YATES S*GETTY OIL C3*EAST	EUMONT UNIT*UP
1M 4 19537E	541 P	7	5425	9904	175	112455	S	EUMONT YATES S*GETTY OIL C3*EAST	EUMONT UNIT*UP
24P 4 19537E			3297	43676	303	1082816	S	EUMONT YATES S*GETTY OIL C3*EAST	EUMONT UNIT*UP
2E 5 19537E						127969	S	EUMONT YATES S*GETTY OIL C3*EAST	EUMONT UNIT*UP
1F 5 19537E						44250	S	EUMONT YATES S*GETTY OIL C3*EAST	EUMONT UNIT*UP
1G 5 19537E						1884483	S	EUMONT YATES S*GETTY OIL C3*EAST	EUMONT UNIT*UP
1N 5 19537E	1013 F		97786	38846	694	1794301	S	EUMONT YATES S*GETTY OIL C3*EAST	EUMONT UNIT*UP
1C 6 19537E			21691			1476755	S	EUMONT YATES S*GETTY OIL C3*EAST	EUMONT UNIT*UP
1C 6 19537E	313 P	3688	2547	10937				FOLLOWING WELL PLUGGED AND ABANDONED 1961	
2D 6 19537E				3971	9716	16142	S	EUMONT YATES S*GETTY OIL C3*EAST	EUMONT UNIT*UP
1E 6 19537E	461 P		1874	8413				FOLLOWING WELL PLUGGED AND ABANDONED 1961	
2F 6 19537E				22996	998	175160	S	EUMONT YATES S*GETTY OIL C3*EAST	EUMONT UNIT*UP
1J 6 19537E			27805	8700	20	195254	S	EUMONT YATES S*GETTY OIL C3*EAST	EUMONT UNIT*UP
1M 6 19537E						4087486	S	EUMONT YATES S*GETTY OIL C3*EAST	EUMONT UNIT*UP
1B 7 19537E						1020755	S	EUMONT YATES S*GETTY OIL C3*EAST	EUMONT UNIT*UP
1E 7 19537E			54203			207885	S	EUMONT YATES S*GETTY OIL C3*EAST	EUMONT UNIT*UP
3H 7 19537E			5423			2462103	S	EUMONT YATES S*GETTY OIL C3*EAST	EUMONT UNIT*UP
1I 7 19537E				3885				FOLLOWING WELL PLUGGED AND ABANDONED 1977	
1I 7 19537E						1374673	S	EUMONT YATES S*GETTY OIL C3*EAST	EUMONT UNIT*UP
1J 7 19537E								FOLLOWING WELL PLUGGED AND ABANDONED 1977	
1K 7 19537E								FOLLOWING WELL PLUGGED AND ABANDONED 1977	
1K 7 19537E	1056 P	725	4129	106988	15134	78880	S	EUMONT YATES S*GETTY OIL C3*EAST	EUMONT UNIT*UP
20 7 19537E	724	353	8966	1090	971	1220593	S	EUMONT YATES S*GETTY OIL C3*EAST	EUMONT UNIT*UP
1P 7 19537E				8291	718	23342	S	EUMONT YATES S*GETTY OIL C3*EAST	EUMONT UNIT*UP
1P 7 19537E	4726 P	68964	26935	3456				FOLLOWING WELL PLUGGED AND ABANDONED 1939	
2E 8 19537E				48082	28719	128360	S	EUMONT YATES S*GETTY OIL C3*EAST	EUMONT UNIT*UP
2E 8 19537E				204956	43770	115449	S	EUMONT YATES S*GETTY OIL C3*EAST	EUMONT UNIT*UP
1G 8 19537E								FOLLOWING WELL PLUGGED AND ABANDONED 1939	
2J 8 19537E	2550 F	3354				2656236	S	EUMONT YATES S*GETTY OIL C3*EAST	EUMONT UNIT*UP
1L 8 19537E	2669 P	1816				389411	S	EUMONT YATES S*GETTY OIL C3*EAST	EUMONT UNIT*UP
1M 8 19537E	2947 F							FOLLOWING WELL PLUGGED AND ABANDONED 1939	
30 8 19537E	2036 P	2683						FOLLOWING WELL PLUGGED AND ABANDONED 1939	
10 8 19537E								FOLLOWING WELL PLUGGED AND ABANDONED 1939	
1P 8 19537E								FOLLOWING WELL PLUGGED AND ABANDONED 1939	
4P 8 19537E	720 P	2986	47292	2295	9624	2131391	S	EUMONT YATES S*GETTY OIL C3*EAST	EUMONT UNIT*UP
28A 9 19537E				19811	2	135169	S	EUMONT YATES S*GETTY OIL C3*EAST	EUMONT UNIT*UP
278 9 19537E				8626	1	5314	S	EUMONT YATES S*GETTY OIL C3*EAST	EUMONT UNIT*UP
1K 9 19537E						11971	S	EUMONT YATES S*GETTY OIL C3*EAST	EUMONT UNIT*UP
31B10 19537E								FOLLOWING WELL PLUGGED AND ABANDONED 1981	
30C10 19537E	396 P	7	2219	14844	6	2256950	S	EUMONT YATES S*GETTY OIL C3*EAST	EUMONT UNIT*UP
29D10 19537E	692 P	9	5295	9247	85	8867	S	EUMONT YATES S*GETTY OIL C3*EAST	EUMONT UNIT*UP
32E10 19537E				37366	485	107042	S	EUMONT YATES S*GETTY OIL C3*EAST	EUMONT UNIT*UP
33F10 19537E				47028	402	148830	S	EUMONT YATES S*GETTY OIL C3*EAST	EUMONT UNIT*UP
35K10 19537E				15233		6423	S	EUMONT YATES S*GETTY OIL C3*EAST	EUMONT UNIT*UP
34L10 19537E				8625		7894	S	EUMONT YATES S*GETTY OIL C3*EAST	EUMONT UNIT*UP
36M10 19537E				4539	34	6098	S	EUMONT YATES S*GETTY OIL C3*EAST	EUMONT UNIT*UP
1A14 19537E								FOLLOWING WELL PLUGGED AND ABANDONED 1961	
39C15 19537E								FOLLOWING WELL PLUGGED AND ABANDONED 1961	
38D15 19537E	498 P	539	213	10310	10	9077	S	EUMONT YATES S*GETTY OIL C3*EAST	EUMONT UNIT*UP
41E15 19537E				6406	4	10727	S	EUMONT YATES S*GETTY OIL C3*EAST	EUMONT UNIT*UP
				14291		18166	S	EUMONT YATES S*GETTY OIL C3*EAST	EUMONT UNIT*UP

SPECIAL RULES AND REGULATIONS
NATURAL GAS POLICY ACT INFILL FINDINGS
ADMINISTRATIVE PROCEDURE
(Amended February 8, 1980)

A. DEFINITIONS

RULE 1. For purposes of this administrative procedure only, the following definitions are adopted:

- a. Infill well: An additional well which has been drilled for production on an established proration unit.

B. APPLICABILITY

RULE 2. These special rules and regulations shall apply to effective and efficient drainage findings for completed infill wells pursuant to Section 271.305 of the final Rules and Regulations of the Federal Energy Regulatory Commission relating to Section 103 of the Natural Gas Policy Act of 1978. (These special rules and regulations do not apply to infill wells drilled in the Blanco Mesaverde or Basin-Dakota Pools. Infill wells in these two pools are covered by Rule 15 B of the "Special Rules for Applications for Wellhead Price Ceiling Category Determinations" promulgated by Division Order No. R-5878 as amended by Order No. R-5878-A.)

C. JUSTIFICATION FOR FINDINGS

RULE 3. The Division Director or a Division Examiner may find that an infill well is necessary:

- a. upon a showing by the operator that an additional well is needed to effectively and efficiently drain a portion of the reservoir covered by the proration unit which cannot be so drained by any existing well within that unit, and
- b. upon receipt of waivers from all offset operators, or if no offset operator has entered an objection to the infill finding within 20 days after receipt of the application by the Director.

RULE 4. The Director may set any application for hearing at his discretion or at the request of an applicant.

Exhibit A
Order R-6013-A

-2-

D. FILING REQUIREMENTS

RULE 5. Each applicant shall submit a copy of the approved Form C-101 for the infill well and Form C-102 showing the proration unit dedicated.

RULE 6. Applicant shall give the name of the pool in which the infill well has been drilled and the standard spacing unit size therefor.

RULE 7. If applicable, the applicant shall give the number of the Division order approving the non-standard proration unit dedicated to the well.

RULE 8. The applicant shall submit a description of all wells drilled on the proration unit (including the completed infill well) which are or have been completed in the same pool or reservoir as the proposed infill well showing:

- a. lease name and well location;
- b. spud date;
- c. completion date;
- d. a description of any mechanical problems experienced along with a summary of remedial action(s) taken and the results obtained;
- e. the current rate of production/ and
- f. date of plug and abandonment, if any;
- g. a clear and concise statement indicating why the existing well(s) on the proration cannot effectively and efficiently drain the portion of the reservoir covered by the proration unit.

RULE 9. The applicant shall submit geological and engineering information sufficient to support a finding as to the necessity for an infill well including:

- a. formation structure map
- b. the volume of increased ultimate recovery expected to be obtained and a narrative describing how the increase was determined
- c. any other supporting data which the applicant deems to be relevant which may include:
 - (1) porosity and permeability factors
 - (2) production/pressure decline curves
 - (3) effects of secondary recovery or pressure maintenance operations.

RULE 10. Applications for infill findings shall be filed in duplicate with the Santa Fe office of the Division.

RULE 11. All operators of proration or spacing units offsetting the unit for which an infill finding is sought shall be notified of the application by certified or registered mail, and the application shall state that such notification has been given.