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

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT ADMINISTRATIVE ORDER NFL 78

INFILL DRILLING FINDINGS AND WELL-SPACING WAIVER MADE 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

I.

Operator_A	lpha	Twent	y-One	Prod	uction Co.	Well	Name	and No.	Jo	Well]	No.1	
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II.

THE DIVISION FINDS:

(1) That Section 271.305(b) of the Federal Energy Regulatory Commission Interim 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, prior to the commencement of drilling, that the 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, and must grant a waiver of existing well-spacing requirements.

(2) That by Order No. R-6013, dated June 7, 1979, 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 i	s sought	: is	to be	complet	ted in	the		Eumont	Gas	
			l	Pool, and	the stan	dard spa	acin	g unit :	in said	l pool	is	e	540		_acres.
(4)	That	a	160	acr	e prorati	on unit	com	prising	the _		S	W/4			
of a	Sec.	6	, Twp.	19-S	, Rng	<u>37-E</u> ,	is	current.	ly ded:	Lcated	to	the	Conoco	Inc.;	State
	A-6	We	11 No. 1		located i	n Unit		of sa	id sect	tion.					

(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 have been complied with, and that the well for which a finding is sought in 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 as an exception to the standard well spacing requirements for the pool.

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 an exception to applicable well spacing requirements and 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	19th	_day	_o±∽,	August	, 19 <u>83</u> .	
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												C. P. S. M.	

DIVISION DIRECTOR ____ EXAMINER

		Application Received: 6/1/83
	OIL CONSERVATION DIVISION	•
	P. O. Box 2088	ADMINISTRATIVE ORDER
STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT	SANTA FE, NEW MEXICO 87501	NFL TS
INFILL	DRILLING FINDINGS PURSUANT TO	•
SECTION 271.30	5(b) OF THE FEDERAL ENERGY REGULAT	ORY
COMMISSION REGUL	ATIONS, NATURAL GAS POLICY ACT OF	1978
AND OIL CONSER	VATION DIVISION ORDER NO. R-6013-A	
Ι.		
Operator <u>Alpha Twenty-One Produce</u> Location: Unit_ <u>N</u> _Sec <u>6</u> _Twp	Lion Co. Well Name and No.	o Well No. 1
Location: UnitSec6Twp	<u>19 South Rng37 East</u> Cty	Lea
II.		
THE DIVISION FINDS:		
(1) That Section 271.305(b) of the 1	Federal Energy Regulatory Commissi	on Regulations promulgated
pursuant to the Natural Gas Policy Ac	ct'of 1978 provides that, in order	for an infill well to gualify
as a new onshore production well under infill well is necessary to effective	er Section 103 of said Act, the Di	vision must find that the
by the proration unit which cannot be	ary and efficiently drain a portion a so drained by any existing well	within that unit.
(2) That by Order No. R-6013-A, date	· · · · · ·	
procedure whereby the Division Direct	tor and the Division Examiners are	empowered to act for the
Division and find that an infill well	l is necessary.	
(3) That the well for which a finding	ng is sought is completed in the _	Eumont Gas
	l spacing unit in said pool is	
(4) That a <u>160</u> -acre pr		
of Sec. 6, Twp. 19 South, Rr		
A+6 Well No. 1 locate		
(5) That this proration unit is ()		
approved by Order No. $R-520$.		candard, said unit was previousi
· · · · · · · · · · · · · · · · · · ·	• • • • • • • • • •	
(6) That said proration unit is not well(s) on the unit.	being effectively and efficiently	drained by the existing
(7) That the drilling and completion	n of the well for which a finding	is sought should result in
the production of an additional <u>750</u> otherwise be recovered.	0,000 MCF of gas from the p	roration unit which would not
(8) That all the requirements of Ord	ler No. R-6013-A have been complie	d with, and that the well
for which a finding is sought is nece	essary to effectively and efficien	tly drain a portion of the
reservoir covered by said proration unit.	init which cannot be so drained by	any existing well within the
(9) That in order to permit effective	a and efficient drainage of said	provation unit the subject
application should be approved.	a and fillolent diginade of said	protacion dnit, die subject
IT IS THEREFORE ORDERED:		
(1) That the applicant is hereby aut		
infill well on the existing proration		
for infill drilling granted by this or reservoir covered by said proration u		
any existing well thereon.		······································
(2) That jurisdiction of this cause Division may deem necessary.	is retained for the entry of such	further orders as the
DONE at Santa Fe, New Mexico, on this	day of	, 19
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	DIVISION DIRECTOR	EXAMINER
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ALPHA TWENTY-ONE PRODUCTION COMPANY

2100 FIRST NATIONAL BANK BUILDING MIDLAND, TEXAS 79701

August 15, 1983



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 Executive Nice/President

TP:rm

Enclosures

JACK D. MUSSETT GEOLOGIST

604 Petroleum Building Midland, Texas 79701 915 684-9081

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 Jack D. Mussett

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

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JACK D. MUSSETT GEOLOGIST

AUG 18 1983

OIL CONSERVATION DIVISION

SANTA FE

604 Petroleum Building Midland, Texas 79701 915 684-9081

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.

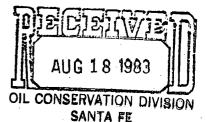
If I can be of further assistance in this matter, please contact me.

kery truk Yours Jack D. Mussétt

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

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ALPHA TWENTY-ONE PRODUCTION COMPANY

2100 FIRST NATIONAL BANK BUILDING MIDLAND, TEXAS 79701

August 15, 1983

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

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

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

Carbon Energy P. O. Box 129 Hobbs, New Mexico 88240 Attn: Joe Buck Conoco, Incorporated P. O. Box 460 Hobbs, New Mexico 88240 Attn: Mark Mosley

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

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

915/683-5384

Infill Drilling Order Jo No. 1 Page 2

If you have any questions, please contact me.

Very truly yours, xecutive Vice President

TP:rm

5

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

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Attention: Michael E. Stogner



STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

TONEY ANAYA GOVERNOR

August 4, 1983

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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

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A	сору	0f	Form	C-101	must	be	submitted.	
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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.

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Information relative to other wells on the proration unit is incomplete.

The geologic and reservoir data is incomplete or insufficient.

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See Rule 9 (Attached)

See Rule 11 (Attached)

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X

Other:

x

SPECIAL RULES AND REGULATIONS NATURAL GAS POLICY ACT INFILL FINDINGS Administrative procedure (Archded Pedruary 8, 1980)

A. DEFINITIONS

- RULE 1. For purposes of this administrative procedure only, the following definitions are adopted:
 - 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-Dakots Pools. Infill wells in these two pools are covered by Rule 15 B of the "Special Rules for Applications for Wellhead Frice Ceiling Category Determinations" promulgated by Division Order No. R-5876 as amended by Order No. R-5876-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 6. 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;

. spud dates

RULE 9

- a. completion date;
- d. a description of any mechanical problems experienced along with a summary of remedial action(s) taken and the results obtained;
- . 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.

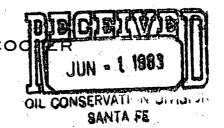
The applicant shall submit geological and engineering information sufficient to support a finding as to the , necessity for an infill well including:

- a. formation structure map
- b. the volume of increased ultimate recovery expected to be obtained and a narrative describing how the increase was determined
- e. 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 Fé office of the Division.
- AULE 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 & COO

A PROFESSIONAL ASSOCIATION

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 Dvision 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 being collecting the Section 103 ceiling price.

If you have any questions, please call me.

Yours truly,

Robert H. Strand

RHS/bjt encls

ATWOOD, MALONE, MANN & COOTER

A PROFESSIONAL ASSOCIATION

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

May 4, 1983

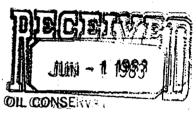
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State of New Mexico Department of Energy Oil Conservation Dvision Post Office Box 2088 Santa Fe, New Mexico 87501

ATTN: Mr. Perry Pierce



SANTA

Re: Application for Infill Drilling Order <u>Township 19 South, Range 37 East, NMPM</u> 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 Oil Conservation Division

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

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5 °.

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

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FORMATION RECORD (Attach additional sheets if necessary)

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l							

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,

1

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:

- fa. 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. Musseft

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

1983 OIL CONSE

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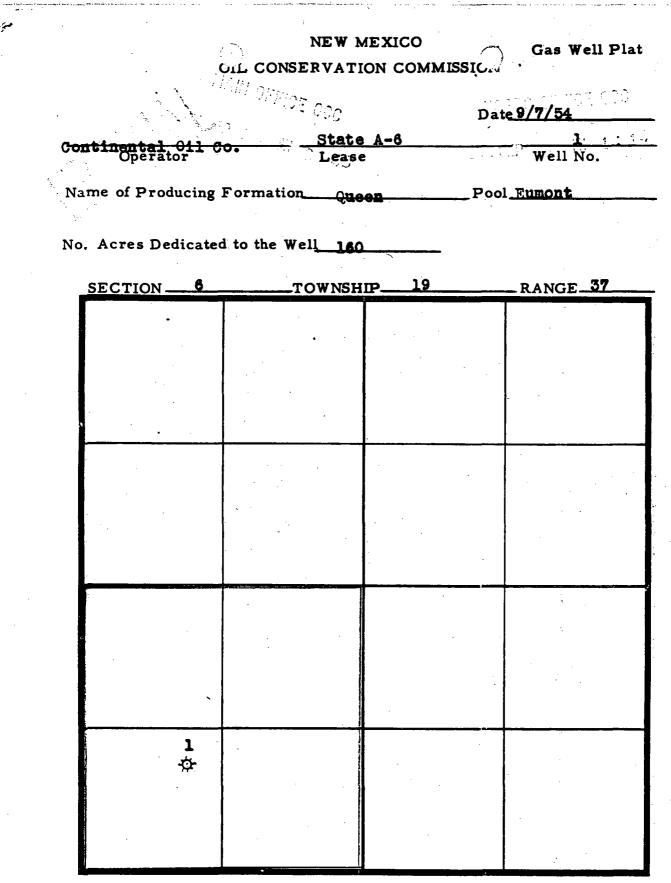
JACK D. MUSSETT GEOLOGIST

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

(over)

Name Position Superintendant Representing Continental 011 Co. Address Box 437, Hobbs, <u>N.</u>

NEW MEXICO OIL CONSERVATION COMMISSION BOX 2045 HOBES, NEW MEXICO

- 45

DATE* September 21, 1954

TO: Continental Oil Co. Box 427 Hobos, New Mexico GENTLEMEN: Form C-104 for your_ State A-6 #1--M Eumont-Ext. POOL WELL 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-123 160 Pending further Commission action this unit will be assigned an_ acre allowable. Subject to the provisions of Order R-520

OIL CONSERVATION COMMISSION

S. 234

BY:___

OCC:hc

cc: Transporter

	P. O. UOX	2068		Revised 10	-1-78	
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Alpha Twenty-One Produ	ction Company OL CO	NSERVATION DIVISIO	11	1		
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PROPOSED CASING AND CEMENT PROGPAM

SIZE OF HOLE	SIZE OF CASING	WEICHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP	1
12-1/4"	8-5/8"	24#	4001	250	Circulate	ł
7-7/8"	5-1/2"	14#	39001	1200	Circulate	;
						,
						i

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

hase of surface casing through the running of production casing.

APPROVAL VALID FOR 180 PERMIT EXPIRES 6.110 UNLESS DRILLING UNDER

A CE APPROVAL IP ANYL	ertily that the information above is true and con	apirts to the best of my bry wisdge and belief.	
JERRY SEXTON DEC 1 6 1982	Michael D. Ong	Tule_Drilling_Superintendent	
DI GIOLANTI DI TOTO	JERRY SEXTON	_ TITLE	DEC 1 6 1982
	IS OF APPROVAL, IF ANY		Received 12-17-52

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STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT **OIL CONSERVATION DIVISION**

TONEY ANAYA GOVERNOR

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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

	ļ		сору	of	Form	C-101	must	be	submitted.	
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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.

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Information relative to other wells on the proration unit is incomplete.

The geologic and reservoir data is incomplete or insufficient.

See Rule 9 (Attached)

X

x

Other: See Rule 11 (Attached)

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

A. DEPINITIONS

- 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 Calling Category Determinations" promulgated by Division Order No. R-5878 as amended by Order No. R-3878-A.)

C. JUSTIPICATION FOR PINDINGS

- 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. PILING 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 protation 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 locations

b. spud date;

- s. completion date;
- d. a description of any mechanical problems experienced along with a summary of remedial action(s) taken and the results obtained;

√ 1 40477% max

- , the current rate of production and
- f. date of plug and abandonment, if anys
- 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

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- 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 Pe 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.

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ATWOOD, MALONE, MANN & COOTER

A PROFESSIONAL ASSOCIATION

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

May 4, 1983

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

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

ATTN: Mr. Perry Pierce

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

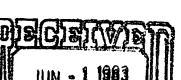
Gentlemen:

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



WILLIAM P. LYNCH

FREDDIE J. ROMERO GEORGE D. GIDDENS, JR.

OIL CONSERVATE OF DEVICED

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

RODNEY M. SCHUMACHER R. TRACY SPROULS

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Oil Conservation Division -2-

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

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

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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,

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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:

Fa. 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.

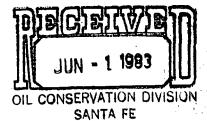
b. The Conoco State A #6 had a significantly lower cumulative production, 1020 MMCFG, at temporary abandonment than the offset wells. The east offset, Texaco State C #1 had a cumulative on January 1, 1982 of 4059 MMCFG and was still producing. Shells State #1, south offset has a cumulative of 2457 MMCFG 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.

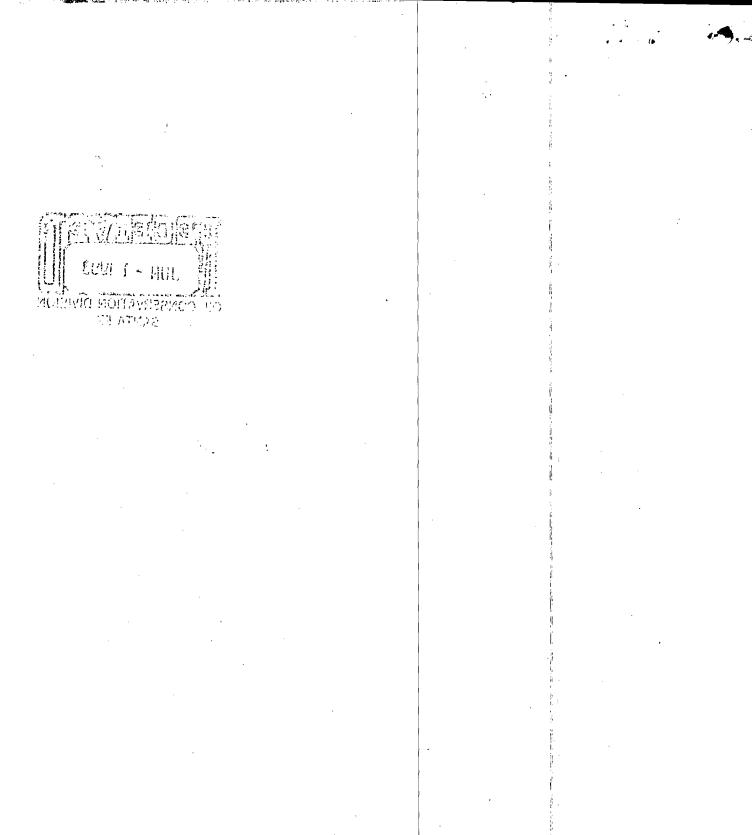
If I can be of further assistance in this matter, please contact me.

Yours very truly Jack D. Musseft

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



JACK D. MUSSETT



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The proposed well is being requested for a Non-Standard Provation 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

hase of surface casing through the running of production casing.

APFROVAL VALID FOR 180 DAY PERMIT EXPIRES 676 A UNLESS DRILLING UNDERWAY

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ARLES E MALONE DESELL D. MANN. P. A. UL A. COOTER BOB F. TURNER ROBERT E. SABIN BRIAN W. COPPLE ROBERT H. STRAND

OIL CONSERVATION LAN P. O. DRAWER 700 SANTA FE

SECURITY NATIONAL BANK BUILDING ROSWELL, NEW MEXICO 88201 505 622-6221

May 4, 1983

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

STEVEN L. BELL

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

LAWYERS

JEFF D. ATWOOD [1883 -1960]

ROSS L. MALONE [1910-1974]

ATTN: Mr. Perry Pierce

> Application for Infill Drilling Order Re: 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

Oil Conservation Division -2-

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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

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Take to m to to be liked with the appropria District Office of the Division bet later than 28 a Patter the complete This from for to be must with the opposite one copy of all electrical and foldoor flyity logic incoming on the formation of the termination of terminati daspeared well. It should be a component of the reported held be measured depths, in the case of directionally defined wells, two vertical wells in the second directionally defined wells, two vertical wells are not the former of the former factoring article interactions of a spin terms of the main of the main of the reported for each zone. The four is to be filed to qualitative at a set to the stors long, where six copies are required. See Rule 1105. INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE Southeastern New Mexico Northwestern New Mexico 1402 T. Canyun _____ T. Ojo Alairo _____ T. Penn, "B" _____ Anhy ____ т. T. Strawn _____ T. Kirtland-Fruitland _____ T. Pron. "C" ٦. Selt_ T. Atoka _____ T. Pictured Cliffs _____ T. Penni "D" ____ n. Salt 2712_____T. Miss_____T. Cliff House_____T. Leadville_____ Yutes т T. Devonion ______ T. Menefee _____ T. Medison _____ Τ. 7 Rivers _ T. Point Lookout _____ T. Elbert ____ Queen ____ 3538_____ T. Silurian ___ Τ. T. Montoya _____ T. Mancos _____ T. McCrocken Grayburg Т. T. Simpson _____ T. Gallup _____ T. Jgnacio (vizie ____ San Andres Τ. Glorieta _____ T. McKee _____ Base Greenhorn _____ T. Granite _____ _____T. Ellenburger _____T. Dakota ______T. T. Puddock Dlinebry _____ T. Gr. Wash _____ T. Morrison _____ T. Т. _____ Y. Granite ______ Y. Todilto ______ T. ____ T. _____ Tabb ____ Т. Drinkard Т. _____ T. Bone Springs _____ T. Wingste _____ T. Υ Abo -----Wolfcamp _____ T. ____ ______ T. Chinle ____ _____T_____T_____ Т. ._____ T. __ Penn -----Τ. T. Penn "A"____ T Ciaco (Bough C) _____ T. ----- T. -----OIL OR GAS SANDS OR ZONES IMPORTANT WATER SANDS Include dats on rate of water inflow and elevation to which water rose in hole. No. 4, from......feet, ***** FORMATION RECORD (Attach additional sheets if necessary) Thickness Thickness Formation From T٥ Formation From То in Feet in Feet

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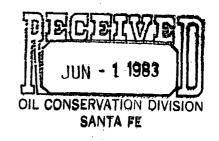
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604 Petroleum Building Midland, Texas 79701 915 684-9081

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,

1

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:

- fa. 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. Musseft

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

JACK D. MUSSETT GEOLOGIST ATWOOD, MALONE, MANN & COOTER A PROFESSIONAL ASSOCIATION LAWYERS

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

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

MAY 0 9 1983

14.

HARLES F. MALONE USSELL D. MANN, P. A. AUL A. COOTER OB F. TURNER OHN W. BASSETT ROBERT E. SABIN CONSERVATION DIVISIONERIAN W. COPPLE ROBERT H. STRAND

STEVEN L. BELL

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

May 4, 1983

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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 A copy of the completion report for the Jo #1 well is Company. attached hereto.

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

Oil Conservation Division

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: V

Attorneys for Applicant

RHS/bjt

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المبتح أسره

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 0 0 1983

SANTA FE

May 2, 1983

13

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.

TELE MER

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 truyly Jack D. Mussett

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

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JEFF D. ATWOOD [1883-1960] ROSS L. MALONE [1910-1974] OIL CONSERVATION DIVISION P. O. DRAWERANJA FE SECURITY NATIONAL BANK BUILDING ROSWELL, NEW MEXICO 88201

[505] 622-622I

MAY 0 9 1983

CHARLES F. MALONE RUSSELL D. MANN, P. A.

PAUL A. COOTER

BOB F. TURNER

STEVEN L. BELL

WILLIAM P. LYNCH

RODNEY M. SCHUMACHER R.TRACY SPROULS

FREDDIE J. ROMERO

ROBERT E. SABIN

BRIAN W. COPPLE ROBERT H. STRAND

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 <u>Township 19 South, Range 37 East, NMPM</u> 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 ll years, and we are attaching hereto a Oil Conservation Division -2-

'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

9 1983

OIL CONSERVATION DIVISION

604 Petroleum Building Midlend, 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. Musseft

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

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INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

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т.	GraySurg	T. Montoya	_ T. Mancos	T. McCracken
т.		T. Simpson		
Т.	Glorieta	T. McKee	_ Base Greenhorn	T. Granite
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IMPORTANT WATER SANDS

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

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FORMATION RECORD (Attach additional sheets if necessary)

From	То	Thickness in Feet	Formation	From	То	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

OIL GURAGER 700 SECURITY NATIONA SANT BULLENIG ROSWELL, NEW MEXICO 88201 [505] 622-6221

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 <u>Township 19 South, Range 37 East, NMPM</u> 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

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

Oil Conservation Division

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-2-

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. Bv:

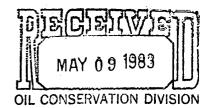
Attorneys for Applicant

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



SANTA FE

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.

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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. Musseft

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

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THS FRUCTIONS.

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INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

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Northwestern New Mexico

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Т. Учет 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. McCrucken
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FORMATION RECORD (Attach additional sheets if necessary)

From To		Thickness in Feet	Formation	From	То	Thickness in Feet	Formation
0	1402	1402	Red Bed, Sand		1		
1402	2712	1310	Salt, Anhydrite				
2712	3538	826	Sand, Anhydrite, Dolomite				
3538	TD	412	Sand, Dolomite				
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I hereby certify that the information given above is true and complete to the best of my knowledge.

Name		•
Position Superintendant		
Representing Continental	011 Co.	
Address Box 427, Hobbs,	<u></u>	-

ن.	`	IEXICO ON COMMISSIC.	Gas Well Plat
		Da	te 9/7/54
	State		1
Operator	Lease		Well No.
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1		Spid: 7/29/54	
*		990' FS + WL Well was disconnected	11-10-1572
		Commutative frod :	10 May 12; 17 13
		1,020,755 MCF	

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

Name	
Position <u>Superintendent</u>	
Representing Continental	
Address Box 437, Hobbs,	<u>_N_M</u>

(nver)

ميرين ميرين	NEW MEXICO	Gas Well Plat
		Date 9/7/54
Continental Oil Co. Operator	<u>State A-6</u> Lease	Well No.
Name of Producing Forn	nation Queen	Pool Eumont
No. Acres Dedicated to t	he Well_ <u>160</u>	RANGE_37

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SECTION6	TOWNSH	IP19	
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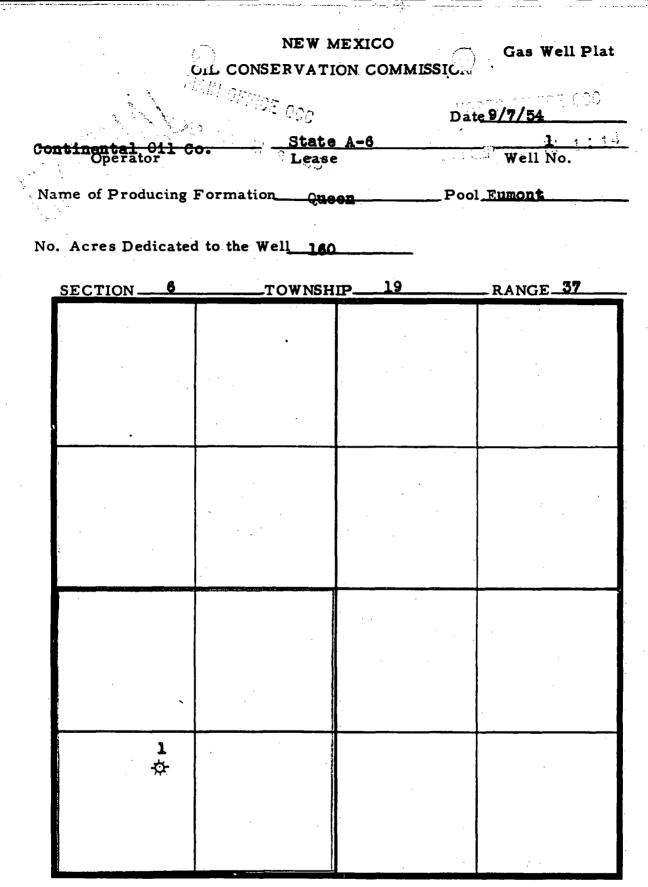
I hereby certify that the information given above is true and complete to the best of my knowledge.

Name	المشتنين المستحدة لترجع	
	n-Superintendant	
Repres	enting Continents	1 011 00.
Addres	s Box 437, Hobbs	NT 36
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	M OFFICE COC	Da	te 9/7/54
ntinental Oil Co	State		<u>1</u> . 1 : Well No.
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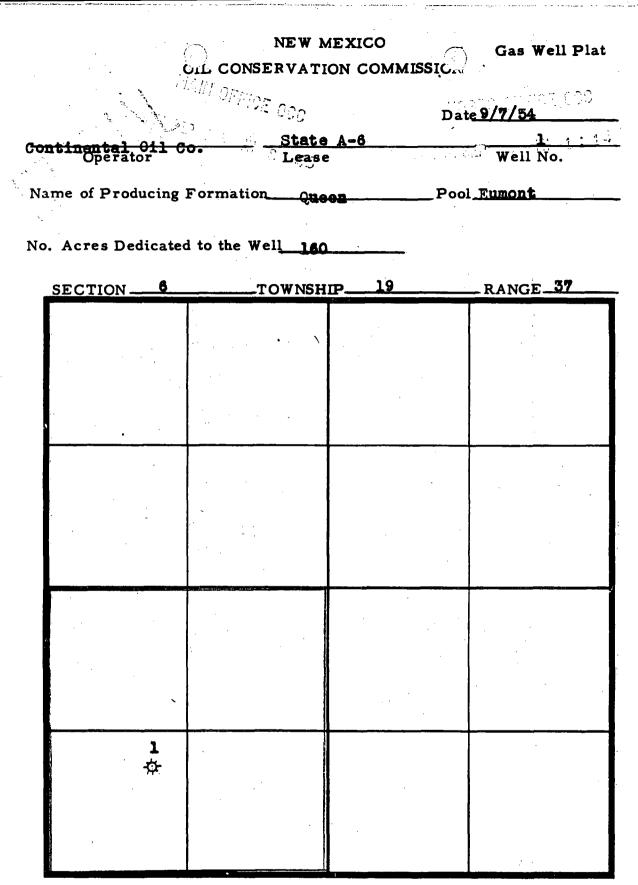
to the best of my knowledge.

	Name
]	Position_ <u>Superintendent</u>
	Representing Continental Oil Co.
	Address Box 437, Hobbs, N. M.
(o	ver)



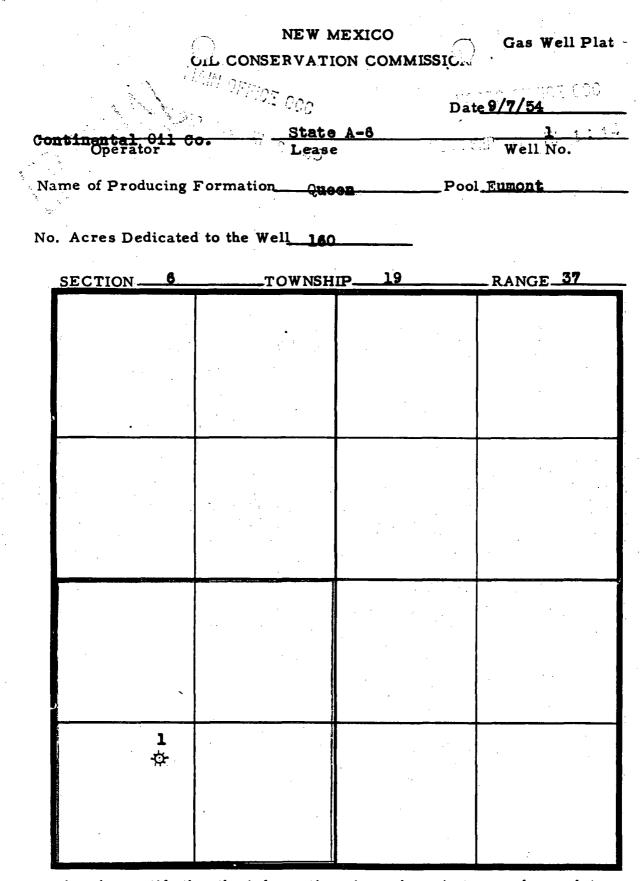
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Name				
Position <u>Superintendent</u>				
Representing Continental	011	Co.		
Address Box 437, Hobbs,	_N.	<u> </u>		



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

همميمين بي موا 2 Name Position <u>Superintendent</u> Representing <u>Continental</u> 011 Co. Address - Box 437, Hobbs, N. M.



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

Name Position <u>Superintendant</u> Representing <u>Continental</u> 011 Co. Address Box 437, Hobbs, N. M.

	NEW MEXICO CONSERVATION COM	Gas Well Plat
	OFFICE COC	Date 9/7/54
Continental Oil Co.	State A-6	<u>1 1 1 1</u>
Operator	Lease	Well No.
Name of Producing Form	nation Oneon	Pool Eumont

No. Acres Dedicated to the Well 160

SECTION6	TOWNSH	IP19	
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I hereby certify that the information given above is true and complete to the best of my knowledge.

Name	
Position Superintendant	1
Representing Continental	011 Co.
Address Box 427, Hobbs,	

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SPECIAL RULES AND REGULATIONS NATURAL GAS POLICY ACT INFILL FINDINGS Administrative procedure (Amended Pedruary 8, 1980)

A. DEPINITIONS

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 D. .. FILING REQUIREMENTS

- RULE 5. ¹/ 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. V 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 wall showing:

a. Vlease name and well location;

- b. spud date;
- c. (/completion date)
- d. Ja description of any mechanical problems experienced along with a summary of remedial action(s) taken and the results obtained;

e. V 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
- 5. 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. VApplications for infill findings shall be filed in duplicate with the Santa Fe office of the Division.
- RULE 11. All operators of provision 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.