STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

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

ADMI NI	STRATIVE	ORD	ER
NFL	15		

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

OperatorN	letex Su	pply Co	ompany	Well	Name a	nd No.	Wallace	State !	Well No. 8
Location:	Unit_K	_Sec	3 Twp. 21S	Rng.	36E	_ Cty	Lea C	ounty	· .
II.									
THE DIVISION	N FINDS:	•							* *
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(3) That th	he well fo		a finding is	•				Eumon 640	
443	240		nd the standar						acres
(4) That a of Sec. 3 Well		21S	re proration , Rng. 36E located in the	, is	current.	ly dedica	ted to the		
(5) That the previously a	nis prorati approved by	ion unit Order N	is () stand No. <u>R-3159</u>	dard (X)	nonstar	ndard; if	nonstanda	rd, said	unit was
(6) That sawell(s) on t		ion unit	is not being	effectiv	ely and	efficien	tly draine	d by the	existing
(7) That the production otherwise be	ion of an a	additiona	npletion of that						d result in ch would not
for which a	finding is	sought	of Order No. is necessary ation unit wh	to effec	tively a	and effic.	iently dra	in a port	tion of the
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(2) That ju Division may			cause is ret	ained fo	r the en	ntry of s	uch furthe	r orders	as the
DONE at Sant	a Fe, New	Mexico,	on this 21s	st day	of	Marc	h 	, 19 80	 •
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for infill	drilling o	ranted bermit th	roracion unic y this order e drainage of ely and effic	is an exc a portic	eption of the	to applic e reservo	able well ir covered	by said	proration
(2) That j	jurisdictio	n of thi	s cause is re	tained fo	or the e	ntry of s	uch furthe	r orders	as the
DONE at San	ita Fe, New	Mexico,	on this 2(at day	, of p	rarch	·	, 19 <u></u> 80	<u> </u>

DIVISION DIRECTOR

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 MI-TEX AND ASSOCIATED COMPANIES



PHONES: 393-8013 - 393-5633

2 1 1980 Mill

Mr. Joe Ramey CONS New Mexico Dept. of Energy & Minerals P. O. Box 2088 Santa Fe, NM 87501

Dear Mr. Ramey:

P. 0. Box 2070 Hobbs, NM 88240 January 18, 1980

Re: Application for Administrative
Approval - Natural Gas Policy Act
Infill Finding - Wallace State #8
Eumont Gas Pool - 3300' FNL &
1980' FWL, Sec. 3, T-21S, R-36E,
Lea County, New Mexico

Me-Tex Supply Company respectfully requests your finding that there is a need for an additional well on the previously approved 240-acre proration unit to effectively and efficiently drain Eumont Gas pool reserves. In accordance with special rules and regulations set forth under Order No. R-6013, the following information is submitted in support of our proposal:

- 1. Copies of Forms C-101 and C-102.
- 2. A completion attempt will be made in the Eumont Gas Pool which has a standard proration unit of 640 acres.
- 3. The 240-acre proration unit on which the Wallace State #8 will be located was established under Order No. R-3159.
- 4. The Wallace State #8 has not been spudded. The proposed location is 3300' FNL and 1980' FWL of Section 3, Township 21 South, Range 36 East, Lea County, New Mexico, a standard location for a 240-acre proration unit.
- 5. Two wells have been drilled in the proration unit. (1) Wallace State #2, Unit L, 4620' FSL and 660' FWL, Sec. 3, T-21S, R-36E, Lea County, New Mexico. Spud date 3/29/1936

Completion date - 4/29/1936 Grayburg formation, open hole 3685-3866 Re-completion 12/31/1953 Braden Head Gas in Eumont Pool, top pay 2840'.

(7 5/8" & 5 1/2" csg.) squeeze off 3245, 3060 & 2846' w/ 300 sx 10/9/1966.

Shut-in after test. No drilling or completion problems encountered.

Present Status: Shut in December, 1971, holding for possible secondary recovery in Grayburg-San Andres (Eunice-Monument Pool) 3685' - 3866'.

(2) Wallace State #3, unit N, 330' FSL and 1980' FWL, Sec. 3, T-21S, R36E, Lea County, New Mexico.

Spud Date - 9/12/1936 T.D. 3875'

Cleaned out and recompleted 2/4/1947

Eumont Gas Pool from perforations 2940'-3590'.

No drilling or completion problems encountered.

Present Status: Producing from 2940' - 3590' in the Eumont Gas Pool. Current rate average August thru December, 1979 is 9,194 MCFGP month, 302 MCFGPD. Cummulative to 11/1/79 - 8,269,329 MCF.

- 6. A structure map on the top of the Queen formation is attached. The proposed location is shown by an arrow.
- 7. The Eumont gas pool produces from the Yates, Seven Rivers and Queen sections which is in the Guadalupian series of the Permian system. The lithology of this area's main pay section, the Queen formation, consists of fine grained gray sands interbedded with fine to medium crystalline gray dolomites and fine silty gray shales. This section covers a vast area located on the Central Basin platform. By history, the average well in this area has recovered gas in the 3-8,000 MMCF range. The initial bottom hole pressure for this reservoir was 1450 psi. The latest average of the Eumont Pool bottom hole pressure is

716 psi, data taken from the 1978 New Mexico Oil and Gas Engineering Committee annual report. With recently developed completion technology, selective perforating and improved formation fracturing employing CO2, the tighter, dirtier low pressure sections can now be effectively tested and drained. It is estimated an additional 3,000 MMCF gas will be recovered by the drilling of the proposed well.

8. Attached is a map showing offset Eumont Gas Pool wells with the proposed location indicated by an arrow. There are nine offset operators as listed below. Each has been notified of this application by certified mail.

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Gulf Energy & Minerals Company - U.S.
Amerada Hess Corporation
Shell Oil Company
Exxon Company, U.S.A.
Arco Oil & Gas Company
Conoco, Inc.
Sun Oil Company
Cities Service Company

Yours very truly,

ME-TEX SUPPLY COMPANY

Dwight Teed Vice President

BV/JJ



NO. OF COPIES RECEIVED	4			•	,	•
DISTRIBUTION	NEW	MEXICO OIL CONS	ERVATION COMMISSIO	N :	Form C-101	•
SANTA FE					Revised 1-1-6	55
FILE					5A. Indicate	Type of Lease
U.S.G.S.			•	•	STATE	FEE .
LAND OFFICE				. ,	5. State Oil	& Gas Loaso No.
OPERATOR .					A-13	375
<u> </u>	·	•		1	777777	
APPLICATIO	ON FOR PERMIT TO	DRILL DEEPEN	OR PLUG BACK			
la. Type of Work			,		7. Unit Agre	ement Name
	ו	C		,, l		
b. Type of Well DRILL X	1	DEEPEN	PLUG	BACK	8. Farm or L	ease Name
OIL GAS WELL X	1		SINGLE X MU	LTIPLE .	Wallace	
2. Name of Operator	O THER		ZONE LA	ZONE	9. Well No.	
	DIV COMPANY			.	8	•
ME-TEX SUPI	PLY COMPANY					d Pool, or Wildcat
	0000 II.l. NW	00040				
4. Location of Well	2070, Hobbs, NM		,		Eumon	t Gas
UNIT LETT	ER K LOC	ATED3300	FEET FROM THE NOT	thLINE		
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AND 1980 FEET FROM	THE West LIN	E-OF SEC. 3	TWP. 21S RGE.	36E NMPM	7777777	711/1/1/1/1/
					12. County	
				777777	Lea	(1)1111111
			i	19A. Formation		20. Rotary or C.T.
			3700'	Queen		Rotary
21. Elevations (Show whether DF	, RT, etc.) 21A. Kind	& Status Plug. Bond	21B. Drilling Contractor		22. Approx	. Date Work will start
Not available	Blanket	-current	unkown		when	approved
23.					- 	
	٢	ROPOSED CASING AN	ND CEMENT PROGRAM			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOO	T SETTING DEPTH	SACKS OF	CEMENT	EST. TOP
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OIL C	CONSERVATION DIVI		•	3		
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IN ABOVE SPACE DESCRIBE PE	ROPOSED PROGRAM: IF	PROPOSAL IS TO DEEPEN	OR PLUG BACK, GIVE DATA	N PRESENT PRO	DUCTIVE ZONE	AND PROPOSED NEW PRODUC-
TIVE ZONE. GIVE BLOWOUT PREVENT						
I hereby certify that the informati	on above is true and comp	olete to the best of my	knpwledge and belief.	į.		
10.1	111			:		,
Signed July	11110	Title Agent		L	oteIani	<u>1ary 18, 1980 </u>
						
	State Use)					
(This space for	State Use)			:		

APPROVED BY ___

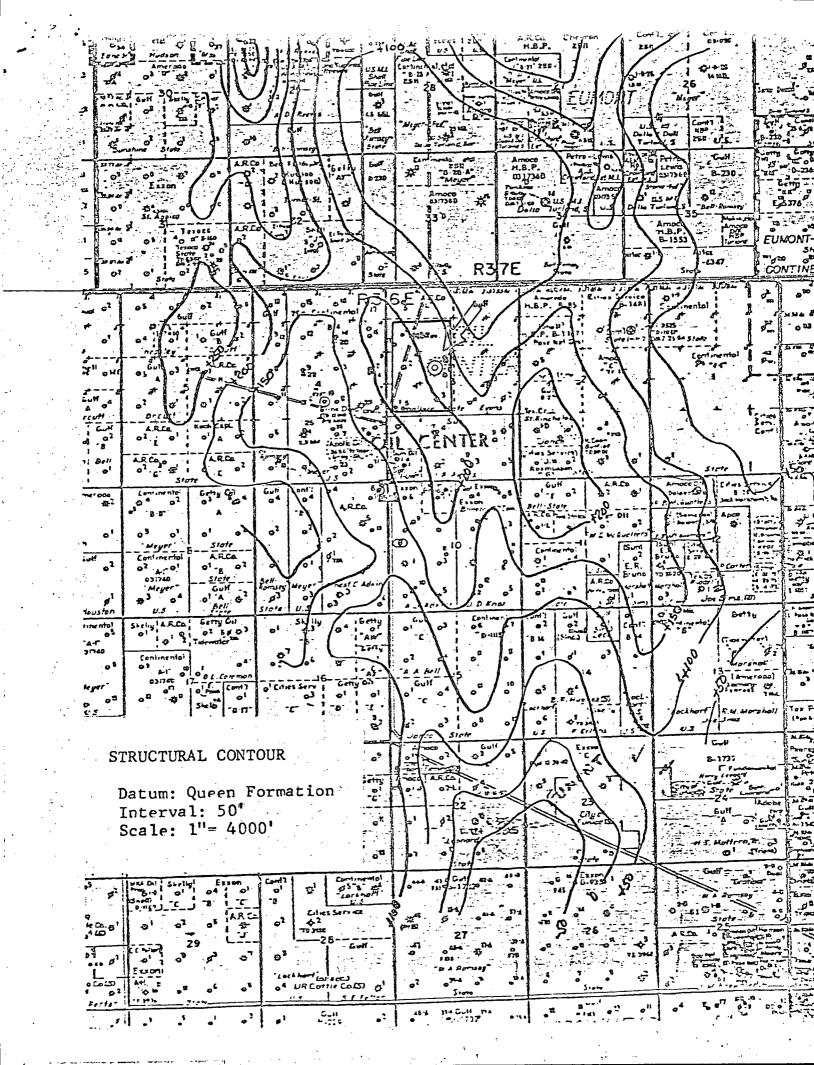
CONDITIONS OF APPROVAL, IF ANY:

WELL LOCATION AND ACREAGE DEDICATION PLAT

<u> </u>	<u> </u>	All distances must	be from the out	er boundaries of	the Section.	<u> </u>	
Operator Me_Te	ex Supply Com	nonv	Lease	Wallage C	tata	Well No.	
Unit Letter	Section Section			Wallace St			
		Township	Romo		County	•	
<u>K</u>	3	21S		36E	Lea		
Actual Footage Loc	ation of Well: feet from the No.	rth line	m _{ond} 1980)	et from the West	Na.	
Ground Level Elev.	Producing For		Pool	166	et from the WOOO	line Dedicated Acreage:	—
Not Available	1		1 .	nt Gas		240 (infill) Acres	
			<u> </u>	····	1		
1. Outline the	e acreage dedica	ted to the subject	well by co	lored pencil o	or hachure marks	on the plat below.	
2. If more th interest an		dedicated to the	well, outline	each and ide	entify the owners	hip thereof (both as to working	5
3. If more tha	n one lease of d	ifferent ownership	is dedicated	to the well,	have the interest	ts of all owners been consoli-	
		nitization, force-p					
			- ,		•		
Yes Yes	☐ No If an	nswer is "yes," typ	e of consoli	dation		· · · · · · · · · · · · · · · · · · ·	<u>.</u>
If answer	is "no;" list the	owners and tract d	escriptions	which have a	ctually been cons	solidated. (Use reverse side of	f
this form it	necessary.)	·	-		· · · · · · · · · · · · · · · · · · ·		
No allowab	le will be assigne	ed to the well until	all interest	s have been d	consolidated (by	communitization, unitization,	
forced-pool	ing, or otherwise)	or until a non-stan	dard unit, el	liminating suc	h interests, has	been approved by the Commis-	
sion.							
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				i.	.	<u>.</u>	
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	- Pill Jane				is 1	true and correct to the best of my.	
	C. Hi Sistar	4 1280 11.11		ì	knov	wledge and belief.	
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AND ACCOCATED COMPANIES



PHONES: 393-8013 - 393-5633

P. 0. Box 2070 Hobbs, NM 88240 January 18, 1980

Mr. Joe Ramey New Mexico Dept. of Energy & Minerals P. O. Box 2088 Santa Fe, NM 87501

Dear Mr. Ramev:

Re: Application for Administrative Approval - Natural Gas Policy Act Infill Finding - Wallace State #8 Eumont Gas Pool - 3300' FNL & 1980' FWL, Sec. 3, T-21S, R-36E, Lea County, New Mexico

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Exxon Company, U.S.A.
Arco Oil & Gas Company
Conoco, Inc.
Sun Oil Company
Cities Service Company

Yours very truly,

ME-TEX SUPPLY COMPANY

Dwight Teed Vice President

BV/JJ

					• •	•
DISTRIBUTION	NEW	MEXICO OIL CONST	ERVATION COMMISSI	ON	Form C-101	•
SANTA FE			• .	٠.	Revised 1-1-1	
FILE		•		•	1 .	Type of Lease
U.S.G.S.					STATE	
LAND OFFICE			•	•		& Gus Louse No.
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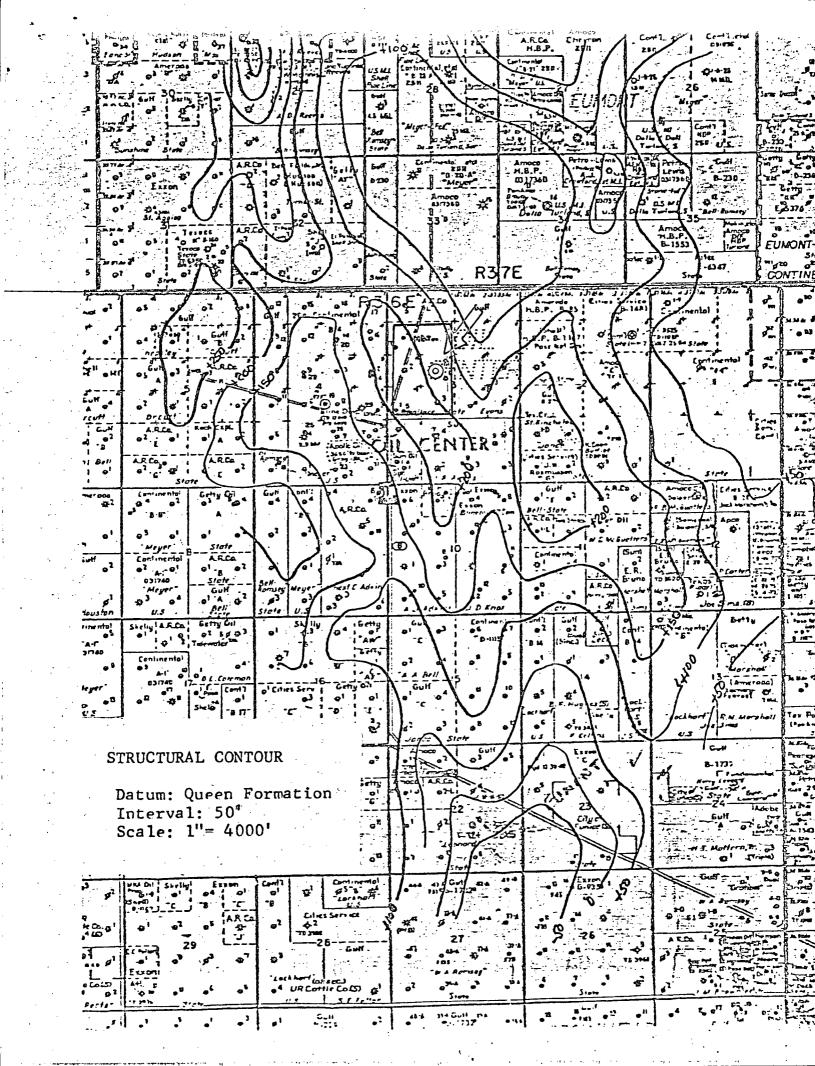
CONDITIONS OF APPROVAL, IF ANY:

WELL LOCATION AND ACREAGE DEDICATION PLAT

			All distances must	be from the out	er boundaries of	the Section	·		
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CURRY ENGINEERING

MIDLAND, TEXAS 79701 1201 N. BIG SPRING STREET P. O. BOX 5596 AC 915 682-2031

15 Feb 80



Re: Application for NGPA Infill Well Findings Under Provisions of Order No. R-6013 Wallace State
Well No. 8 and 9, Sec 3, T-211S, R-36-E
Eumont Gas Pool, Lea County, N. M.

R. L. Stamets, Technical Support Chief STATE OF NEW MEXICO Energy and Minerals Department Oil Conservation Division

Dear Sir:

I am writing this letter in response to your letter of 22 Jan 80 to ME-TEX AND ASSOCIATED COMPANIES, otherwise known as ME-TEX SUPPLY COMPANY.

I am a registered professional engineer and have been employed as a consulting petroleum engineer for the past eighteen years. I have been previously qualified as an expert witness before the New Mexico Department of Energy and Minerals.

I have been actively involved in the drilling, completion, and evaluation of oil and gas properties in New Mexico for the past twenty-one years. I have been retained by ME-TEX SUPPLY Co. to prepare answers and to generate supplemental data requested in the abovementioned letter.

I have prepared the attached plot of Monthly Gas Production vs. Time which appears to exhibit an annual decline in deliverability of about 13½ percent. I have calculated that the present well (the only well presently completed in the Eumont Gas Pool on the subject 240 acre lease) will recover 412 MMscfg up to the economic limit, resulting in an ultimate recovery of 8,783 MMscfg for the lease. This well, shown on the attached cross section as well "E", is currently producing from both a perforated interval of 2940-3590' and an open hole section of 2568-2750'. Neither of these intervals have previously been stimulated and the presence of the open hole section above the perforated interval, in my opinion will preclude any successful attempt at stimulation in this well.

I have made a careful study of the logs and records available in the subject area and must conclude that the logs are not suitable for the determination of reserves by volumetric means (no core analyses have been found in the Eumont Gas Pool in this area). From my personal ovservations of the results of many well completions and workovers in this area, as well as many in areas having similiar reservoir characteristics, it is very difficult to conduct a successful well stimulation where very high permeability/porosity zones are interspersed with thin, tight zones. In such cases, the tight zones will contribute little, if any to the ultimate recoveries in the wells. My firm has had very good results in these problem completions by the utilization of selective limited entry methods in the tight zones first. These zones are perforated and broken down with acid individually, then are fracture treated in short intervals (by stages, if necessary), and then the higher permeability/porosity zones are perforated, broken down, and stimulated. It is of the utmost importance to get a very good primary cement job for these treatments to succeed.

We have found that the above described procedure will usually result in wells having superior potentials and deliverabilities compared to normally completed wells, resulting in the recovery of reserves which would not be otherwise produced.

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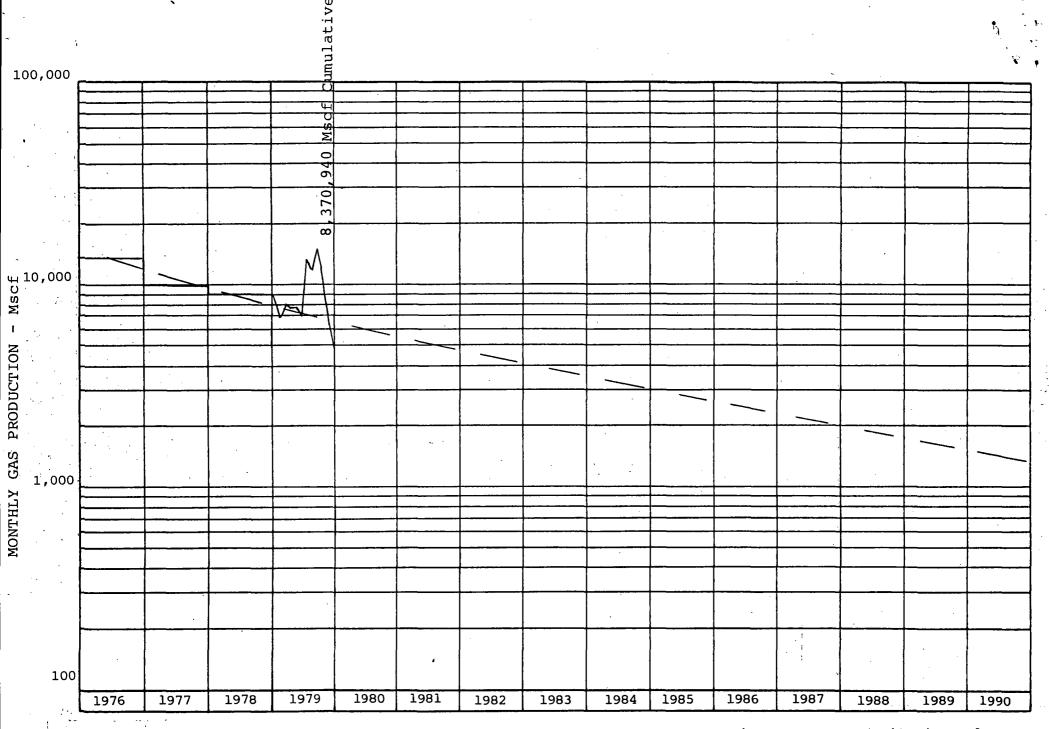
I hope that this letter and the attachments will satisfy the requirements that you put forth in your letter. Please feel free to contact me for clarification of any of the content.

Yours very truly,

D. R. Curry, Registered Professional Engineer

cc: Joe Ramey, Santa Fe
ME-TEX SUPPLY CO., Hobbs

attachments



ME-TEX SUPPLY COMPANY Wallace State Well No. 3 Eumont Yates, Seven Rivers, & Queen (Gas) Pool Unit N, Sec 3, T-21-S, R-36-E, Lea County

INTENTIONAL OMISSIONS

The following document(s) have been intention indicated reasons.	onaily omitted from this file due to the
FILE# NFC 15	••••
DESCRIPTION OF OM	TITED DOCUMENTS
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CURRY ENGINEERING

MIDLAND, TEXAS 79701 1201 N. BIG SPRING STREET P. O. BOX 5596 AC 915 682-2031

12 Mar 80



MAX E. CURRY DAROYL R. CURRY

Re: NGPA infill well findings under the provisions of order # R-6013
ME-TEX and ASSOCIATED COMPANIES
Wallace State wells No. 8 & 9
Section 3, T-21-S, R-36-E,
Eumont Gas Pool, Lea County, N. M.

Mr. R. L. Stamets, Technical Support Chief STATE OF NEW MEXICO Energy and Minerals Dept. Oil Conservation Division Box 2088 Santa Fe, New Mexico 87501

Dear Sir:

I am writing this letter as a supplement to my letter of 15 Feb 80 relative to the application to drill the abovementioned wells. Using available data from the subject lease and using core analysis data from a similiar lease in the subject field, I have calculated that over the first nine years of production from the proposed wells, the tight sands will contribute an incremental amount of gas in the order of 46 MMscfg per well utilizing a drainage radius of only 1121 feet (a drainage area of 23 acres per well). I feel that this is a most conservative estimate of incremental gas reserves, since the effective drainage area will probably be somewhat larger, and that the economic life of the wells will undoubtedly exceed nine years.

I must stress that the likelihood that any of these incremental reserves would be produced from the existing well is very slim. The production of the gas reserves from tight sands will be dependent on effective primary cementing, selective perforating and stimulation procedures, and on the well spacing outlined in our previous correspondence.

I enclose EXHIBIT "A", a tabulation of the calculations and the basic data utilized in the preparation of my reserve estimates.

Yours very truly,

D. R. Curry

EXHIBIT "A" Calculation of the Drainage Radius from Producing Tight Sands in the Eumont Gas Pool Over a Nine Year Period

Reservoir Conditions

Res temp = 568°R

Gas gravity = 0.700

Tc = 380°R

Res pressure = 731 psia

Pc = 666 psia

Res fluid viscosity = 0.11 cp

Formation porosity = 0.10

Water saturation = 0.35

Permeability = 0.03 md.

Calculated Values

z = 0.890 $dz/dp = 1.53 \times 10^{-4}$ (Craft & Hawkins, fig 6.9, p. 271)

 $Cg = \frac{1}{P} \frac{1}{z} [dz/dp] = 1/731 - 1/0.890(1.53 \times 10^{-4}) = 1.196 \times 10^{-3}$

1121 feet

Drainage Area = $\P/4$ D² = $\P/4$ (1121)² = 9.87 x 10⁵ ft² =

23 Acres

Pa = 100 psia, Pi = 731 psia, Za = 1.00, Zi = 1.10, Tres = 568°R.

Bi = 35.35[Pi/Zi x T res] = (35.35)[731/(1.10)(568)] = 41.36 SCF/ft

Ba = $35.35[Pa/Za \times Tres] = (35.35)[100/1.00)(568)] = 6.22 SCF/ft³$

Incremental Gas

Reserves from = 43560 ASP (1-Sw) (Bi - Ba) =

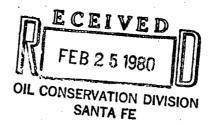
Tight Sands

(43560)(23)(20)(1-0.35)(41.36 - 6.22) =

46 MMscfg/well

CURRY ENGINEERING

MIDLAND, TEXAS 79701 1201 N. BIG SPRING STREET P. O. BOX 5596 AC 915 682-2031



MAX E. CURRY DAROYL R. CURRY

15 Feb 80

Re: Application for NGPA Infill Well Findings Under Provisions of Order No. R-6013 Wallace State Well No. 8 and 9, Sec 3, T-211S, R-36-E Eumont Gas Pool, Lea County, N. M.

R. L. Stamets, Technical Support Chief STATE OF NEW MEXICO Energy and Minerals Department Oil Conservation Division

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p. 2, R. L. Stamets, 15 Feb 80



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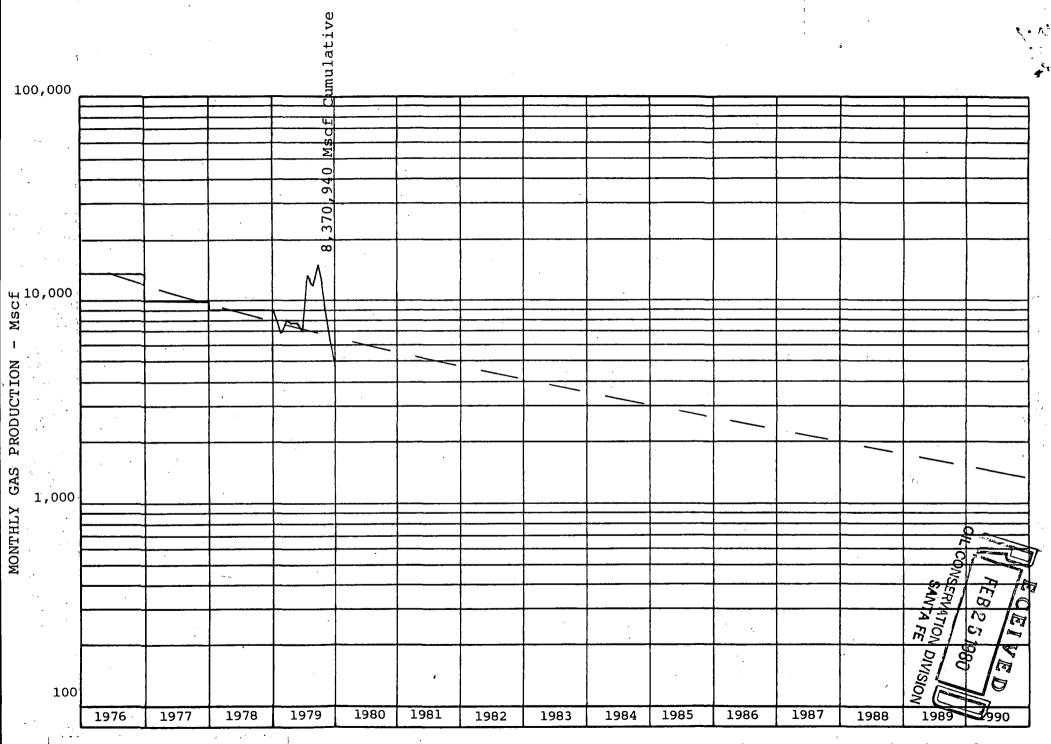
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Yours very truly,

D. R. Curry, Registered Professional Engineer

cc: Joe Ramey, Santa Fe
ME-TEX SUPPLY CO., Hobbs

attachments



ME-TEX SUPPLY COMPANY Wallace State Well No. 3 Eumont Yates, Seven Rivers, & Queen (Gas) Pool Unit N, Sec 3, T-21-S, R-36-E, Lea County



ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

BRUCE KING GOVERNOR LARRY KEHOE SECRETARY January 22, 1980

POST OFFICE BOX 2088

STATE LAND OFFICE BUILDING

SANTA FE, NEW MEXICO 87501

(505) 827-2434

Me-Tex and Associated Companies P. O. Box 2070 Hobbs, New Mexico 88240

Re: Application for NGPA Infill Well Findings Under Provisions of Order No. R-6013 Wallace State
Well No. 8 and 9, Sec. 3, T-21-S, R-36-E,

well No. 6 and 9, sec. 3, 1-21-3, R-30-L

Eumont Gas Pool, Lea County, N.M.

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,

R. L. STAMETS

Technical Support Chief

RLS/dr

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. There must be a clear explanation why the existing
wells on the proration unit cannot efficiently and effectively
drain such unit.
The geologic and reservoir data is incomplete or insufficient. There must be a clear explanation as to what local reservoir and
pressure factor were used in calculating the expected increased
recovery and a demonstration of the appropriateness of such figures.
· · · · · · · · · · · · · · · · · · ·
Other:

As this will result in the drilling of two infill wells on one proration unit there must be a calculation of the expected recovery from the unit

with no infill well, with one infill well and with two infill wells.