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

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

ADMINISTRATIVE ORDER NFL 103

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

Operator_	Marathon	Oil Compan	У	Well Name	${ t e}$ and No	Warn Stat	e A/C-3 wel	1 NO. 9
Location:	Unit H	_Sec33_	Twp 17South R	ng.35East	Cty	Lea		· ;
II.	-		*		**			** **
THE DIVISI	ON FINDS:				* :			
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procedure	whereby the	Division D	ated June 7, l irector and th well is neces	ne Divisio	Division es n Examiners	tablished a are empow	an administra ered to act f	tive or the
(3) That	the well fo		nding is soug					ieta
	40		he standard s	•				acres
(4) That of Sec.			proration uni Rng. 35East					· 7/0 2
Well N			cated in Unit				- Warn Stai	<u>e A/C-3</u>
		ion unit is y Order No.	(X) standard	( ) non:	standard; i	f nonstanda	ard, said uni	t was
(6) That well(s) on		ion unit is	not being eff	ectively	and efficie	ntly draine	ed by the exi	sting
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for which a	a finding i	s sought is	Order No. R- necessary to on unit which	effective]	ly and effic	ciently dra	in a portion	of the
(9) That application pool.	in order to n should be	permit effe approved as	ective and eff an exception	icient dra to the s	ainage of s tandard wel	aid prorati 1 spacing 1	on unit, the requirements	subject for the
	EFORE ORDER							•
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	jurisdictio ay deem nec		use is retain	ed for the	e entry of	such furthe	er orders as	the
DONE at Sa	nta Fe, New	Mexico, on	this 16	day of	November	: 	19 84 .	•
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· · · · · · · · · · · · · · · · · · ·		-		DIVISIO	DIRECTOR	EXAM	NER X	<del></del>

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

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

ADMINISTRATIVE ORDER

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

Operator Marathon Oil Company Well Name and No. Warn State A/C-3 Well No.
Location: Unit H Sec. 33 Twp. 17 Soott Rng. 35 Fast Cty. Lea
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 is sought is to be completed in the Vacuum Glorieta
Pool, and the standard spacing unit in said pool is 40 acres
(4) That a 40 -acre proration unit comprising the SE/4 NE/4 of Sec. 33 , Twp. 17 South , Rng. 35 East , is currently dedicated to the Warn State A/C-3 Well No. 9 located in Unit // of said section.
(5) That this proration unit is ( ) standard ( ) nonstandard; if nonstandard, said unit was previously approved by Order No.
(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 218,000 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 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 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 day of, 19
DIVISION DIRECTOR EXAMINER X



Midland District
Houston Division
Production Exploration
Production Exploration
Production Exploration
MAR 17 1983
P.O. Box 552
Midland, Texas 797031 CONSERVATION DIVISION
SANTA FE

March 14, 1983

State of New Mexico Energy & Mineral Department Oil Conservation Division Santa Fe, New Mexico 87501

RE: Request for Administrative Procedure - Natural Gas Policy Act Infill Finding

#### Gentlemen:

Marathon Oil Company recently drilled the Warn State A/C 3 Well No. 9 in the Vacuum Glorieta Field. The well was drilled as a replacement well for the Warn State A/C 3 Well No. 8, which is on the same 40 acre proration unit. The second well was necessary on this proration unit due to the inability of the first well to produce the reserves which remain under the proration unit. Well No. 8 was spudded on August 10, 1974, completed on October 8, 1974, and produced until August, 1979, at which time the well was producing 100 percent water. Several unsuccessful attempts were made to restore the well to an economic status by shutting off the excessive water production. The well was temporarily abandoned in December, 1979. Cumulative production from the well was 27,000 BO and 99 MMCFG.

Warn State A/C 3 Well No. 9 was spudded on December 20, 1982, drilled to a total depth of 6200' and completion work is currently in progress. The Glorieta formation was encountered approximately 17 feet higher than in Well No. 8 and logs indicate the porosity is developed higher in the formation. Based on log data of Well No. 9 the recoverable reserves are estimated to be 173,779 BO and 218 MMCFG.

h = 25 feet net feet of pay from log of Warn State A/C 3 Well No. 9

Ø = 10% calculated from log of Warn State A/C 3
Well No. 9

Sw = 30% calculated from log of Warn State A/C 3
Well No. 9

BOI = 1.25

Standing correlation

A = 40

drainage area

GOR = 1255

production history of Glorieta Wells on the Warn State A/C 3 Lease

Recovery factor = 40% assumed

STOIP =  $\frac{7758 \times 40 \times 25 (0.10) (1 - 0.30)}{1.25}$ 

STOIP = 434,448 B0

Recoverable OIP =  $434,448 \times 0.40 = 173,779 \text{ BO}$ 

Recoverable GAS =  $173,779 \times 1255 = 218.092 \text{ MMCF}$ 

Attached is data that is relevant to the determination of additional reserves that will be recovered from the Warn State A/C 3 Well No. 9 including:

Computor Processed Log Structure Map of Glorieta Cross Section of Glorieta C-101 C-102 Notification of Offset Operators

All Offset Operators have been notified by certified mail. If additional information or clarification is necessary, please contact me.

Sincerely,

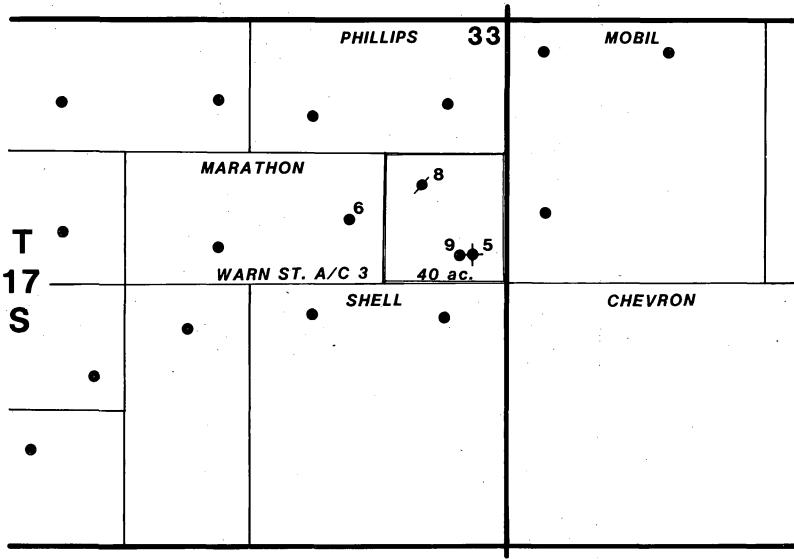
MARATHON OIL COMPANY

W. D. Holmer

W. D. Holmes
District Operations Engineer

DAB/cb

Enclosures



**NOTE: GLORIETA WELLS ONLY** 



# HOUSTON DIVISION MIDLAND DISTRICT

## VACUUM GLORIETA

LEA COUNTY, NEW MEXICO

0 1/2 1 MILES

### WELLS PREVIOUSLY PRODUCED FROM PRORATION UNIT

Warn State A/C 3 Well No. 5

OPERATOR: Marathon Oil Company

This well was drilled and completed in 1963 as a dual Glorieta-Abo oil producer. The Glorieta flowed on potential test at a rate of 135 BOPD and 14 BWPD. The well was produced as a dual completion until May of 1974. February 1, 1967 the Abo zone was unitized with Phillips Petroleum as operator. As per unit agreement the Abo unit had first call on the wellbore. In 1974, communication problems between the two zones were detected and the Glorieta zone was cement squeezed and the wellbore was turned over to the Vacuum Abo Reef Unit. The cumulative production from the Glorieta was 231,715 BO, 176 MMCFG, and 53,479 BW.

Warn State A/C 3 Well No. 8

OPERATOR: Marathon Oil Company

This well was drilled in 1974 as a replacement well for Warn State A/C 3 Well No. 5. The well potential tested 26 BO, 58 MCF and 60 BWPD. It was a rather poor producer due to the porosity development low in the formation. It produced until 1979 when it was shut in due to 100 percent water production. Several attempts were made to put the well back on production, but were unsuccessful. The cumulative production was 27,000 BO and 99 MMCFG.

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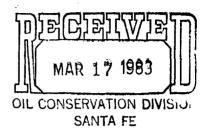
JOHN W. WEST NO. 676



P.O. Box 552 Midland, Texas 79702 Telephone 915/682-1626

March 14, 1983

Phillips Petroleum Company 4001 Penbrook Odessa, Texas 79762



### Offset Operators:

Marathon Oil Company has requested administrative approval for a Natural Gas Policy Act Finding for a second well on a 40 acre proration unit in the Vacuum (Glorieta) Field. The well was drilled as a replacement well for the Warn State A/C 3 Well No. 8, Section 33, T-17-S, R-35-E. The Warn State A/C 3 No. 8 is currently non-productive and will be plugged and abandoned.

Sincerely.

W. D. Halman

W. D. Holmes
District Operations Engineer



P.O. Box 552 Midland, Texas 79702 Telephone 915/682-1626

March 14, 1983

Shell Oil Company P. O. Box 1579 Midland, Texas 79702



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W. D. Holmes
District Operations Engineer



P.O. Box 552 Midland, Texas 79702 Telephone 915/682-1626

March 14, 1983

Chevron U.S.A., Inc. P. O. Box J Concord, California 94524 OIL CONSERVATION SANTA FE

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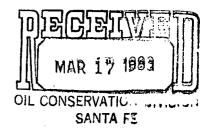
District Operations Engineer



P.O. Box 552 Midland, Texas 79702 Telephone 915/682-1626

March 14, 1983

Mobil Oil Producing Texas & New Mexico, Inc. 9 Greenway Plaza Suite 2700 Houston, Texas 77046



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W. D. Holmes
District Operations Engineer

## INTENTIONAL OMISSIONS

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P.O. Box 552 Midland, Texas 79702 Telephone 915/682-1626

March 14, 1983

State of New Mexico Energy & Mineral Department Oil Conservation Division Santa Fe, New Mexico 87501



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A = 40

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MARATHON OIL COMPANY

W. D. Holmer

W. D. Holmes
District Operations Engineer

DAB/cb

Enclosures

### WELLS PREVIOUSLY PRODUCED FROM PRORATION UNIT

Warn State A/C 3 Well No. 5

OPERATOR: Marathon Oil Company

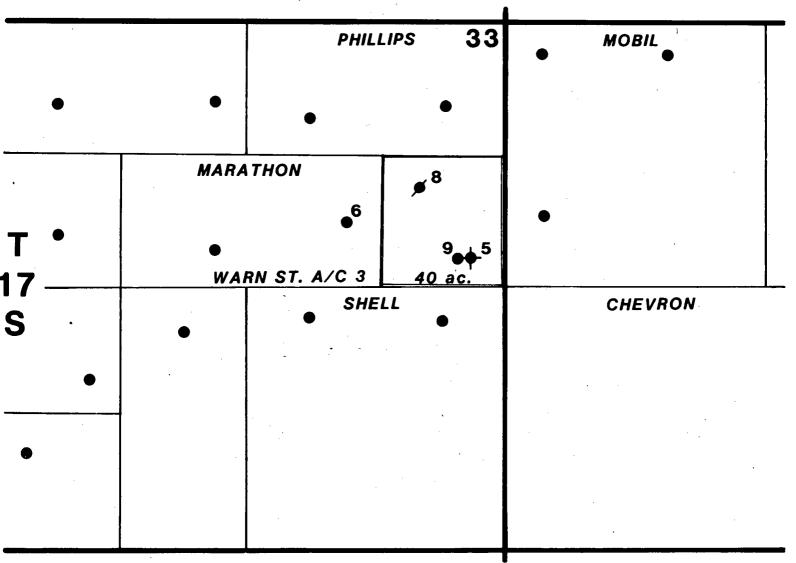
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Warn State A/C 3 Well No. 8

OPERATOR: Marathon Oil Company

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R-35-E



**NOTE: GLORIETA WELLS ONLY** 



## HOUSTON DIVISION MIDLAND DISTRICT

## **VACUUM GLORIETA**

LEA COUNTY, NEW MEXICO

0 1/2 1 MILES

### NEW XICG OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

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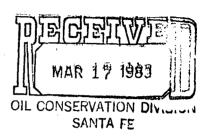
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3936' GR	j	Current	N/A	<b>.</b>		Decemb	er 10, 1982
•		:					
	•	PROPOSED CASII	NG AND CEMENT	PRUGRAM			
SIZE OF HOLE	SIZE OF CAS	ING WEIGHT PER	FOOT SETT	NG DEPTH	SACKS OF	CEMENT	EST. TOP
12 1/4"	9 5/8"	32.3#	1500	)†	700 sx	ζ ,	Circulate
8 3/4"	5 1/2"	15.5#		1	750 sx		Circulate
•		· ·		• .			
	<b>f</b> :		. 1	-	1		
		•	•		•		
					_		
		•		•	,		
	•						
		•					
Drill 12 1/4" hole	to 2.1500'	and set 9 5/8"	casing. N	lipple up	and test	Hydril,	pipe and
:blind rams, drill	8 3/4" hole	to 4 6200'. L	og open hol	e interva	1, run ar	nd set 5	1/2"
		-	•		-		
production casing.					. •		
				• •	•		
Inclination survey	s will be ta	ken at least e	very 500 fe	et.	•		
· · · · · · · · · · · · · · · · · · ·			,	•			
A DAVE TOACE DETCRIBE OF	OUNTED PROCES	M. IF PROPOSAL IS TO D	LEPEN ON PLUG NAC	A. GIVE DATA ON		SUCTIVE ZONE	AND PHOPOSED NEW P
E ZONE. GIV! NEOWOUT PREVENT	ER PHOGHAM, IF ANY	1. 1				·	
ereby ceptify that the informati	an above is trudge	d complete to the best	of my knowledge a	nd belief.			• ,
Mentse	- Porto					••	t 10 100
ened Thomas F. Zapat	<b>序</b>	Title Prod	uction Engi	neer	D	ote NOV	ember 18. 198
(This space for	Scur Use)						
farren about a \$110	· •						•
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PHOVED HY	<del></del>						



P.O. Box 552 Midland, Texas 79702 Telephone 915/682-1626

March 14, 1983

Phillips Petroleum Company 4001 Penbrook Odessa, Texas 79762



Offset Operators:

Marathon Oil Company has requested administrative approval for a Natural Gas Policy Act Finding for a second well on a 40 acre proration unit in the Vacuum (Clorieta) Field. The well was drilled as a replacement well for the Warn State A/C 3 Well No. 8, Section 33, T-17-S, R-35-E. The Warn State A/C 3 No. 8 is currently non-productive and will be plugged and abandoned.

Sincerely.

W. D. Halace

W. D. Holmes
District Operations Engineer



P.O. Box 552 Midland, Texas 79702 Telephone 915/682-1626

March 14, 1983

Shell Oil Company
P. O. Box 1579
Midland, Texas 79702



Offset Operators:

Marathon Oil Company has requested administrative approval for a Natural Gas Policy Act Finding for a second well on a 40 acre proration unit in the Vacuum (Glorieta) Field. The well was drilled as a replacement well for the Warn State A/C 3 Well No. 8, Section 33, T-17-S, R-35-E. The Warn State A/C 3 No. 8 is currently non-productive and will be plugged and abandoned.

Sincerely,

W. D. Holonie

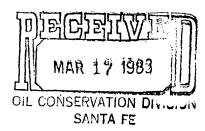
W. D. Holmes
District Operations Engineer



P.O. Box 552 Midland, Texas 79702 Telephone 915/682-1626

March 14, 1983

Chevron U.S.A., Inc. P. O. Box J Concord, California 94524



Offset Operators:

Marathon Oil Company has requested administrative approval for a Natural Gas Policy Act Finding for a second well on a 40 acre proration unit in the Vacuum (Glorieta) Field. The well was drilled as a replacement well for the Warn State A/C 3 Well No. 8, Section 33, T-17-S, R-35-E. The Warn State A/C 3 No. 8 is currently non-productive and will be plugged and abandoned.

Sincerely,

W. O. Holan

W. D. Holmes
District Operations Engineer



P.O. Box 552 Midland, Texas 79702 Telephone 915/682-1626

March 14, 1983

Mobil Oil Producing Texas & New Mexico, Inc. 9 Greenway Plaza Suite 2700 Houston, Texas 77046



Offset Operators:

Marathon Oil Company has requested administrative approval for a Natural Gas Policy Act Finding for a second well on a 40 acre proration unit in the Vacuum (Glorieta) Field. The well was drilled as a replacement well for the Warn State A/C 3 Well No. 8, Section 33, T-17-S, R-35-E. The Warn State A/C 3 No. 8 is currently non-productive and will be plugged and abandoned.

Sincerely,

W. J. Halm

W. D. Holmes
District Operations Engineer