Mid-Continent Region Production United States

Marathon Oil Company

March 9, 1998

Mr. David Catanach Energy and Minerals Department Oil Conservation Division P.O. Box 2088 Santa Fe, NM 87501-2088

Re: Request for Exception to Rule 303-A Downhole Commingling Warn St. A/C 1 No. 6 UL "K", 1980' FSL & 2030' FWL Sec. 31, T-17-S, R-35-E Vacuum; Abo, North and Wolfcamp Pools Lea County, New Mexico

Dear Mr. Catanach:

Marathon Oil Company requests administrative approval for an exception to Rule 303-A to permit the downhole commingling of production in the above subject well from the Vacuum; Abo, North and Vacuum; Wolfcamp pools.

The Warn St. A/C 1 No. 6 was previously completed as a Wolfcamp producer. However, in order to improve producing economics, the well was recompleted as a Abo/Wolfcamp producer. Rod pumping equipment will be utilized to keep the PBHP as low as possible to prevent crossflow.

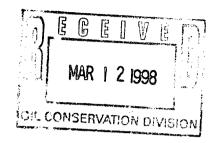
Enclosed is pertinent data supporting this application as outlined in Rule 303-A. If additional information is necessary, please advise.

Sincerely,

Bryan L. Williams Production Engineer (505) 393-7106

n:/regltory/commling/dhc/coverpag/ws1#6_b Enclosure

P.O. Box 2409
Hobbs, NM 88241-2409
Telephone 505/393-7106





March 9, 1998

Altura Energy Ltd. Fasken Center, Tower 1 500 W. Texas Suite 1225 Midland, TX 79701

Re: Request for Exception to Rule 303-A
Downhole Commingling
Warn St. A/C 1 No. 6
UL "K", 1980' FSL & 2030' FWL
Sec. 31, T-17-S, R-35-E
Vacuum; Abo, North and Wolfcamp Pools
Lea County, New Mexico

Ladies and/or Gentlemen:

Marathon Oil Company has filed an application with the New Mexico Oil Conservation Division to downhole commingle the above referenced well. Please find enclosed a copy of the application as outlined in Rule 303-A.

If you are in agreement and waive all objections to the downhole commingling, please sign below and mail the original to the NMOCD in the enclosed addressed envelope. Also, please return one copy to Marathon at the letterhead address.

Sincerely,

Juller

Bryan L. Williams Production Engineer (505) 393-7106

n:/regltory/commling/dhc/wio/ws1#6_a Enclosure

Agreed and accepted this	12	day of	March	1998
by Chris all	lliams			, as representative of
Mul Maxine O	Il Cons	evation	Devision	



March 9, 1998

Altura Energy Ltd. Fasken Center, Tower 1 500 W. Texas Suite 1225 Midland, TX 79701

Telephone 505/393-7106 APR 2 1999 P.O. Box 4294 Houston, TX 77210 Attn: J.W. Collier **构造 CONSERV**

4/1/98

Mid-Continent Region Production United States

Hobbs, NM 88241-2409

P.O. Box 2409

David Catinach Catinach

Re: Request for Exception to Rule 303-A Downhole Commingling Warn-St.-A/C 1 No. 6 UL "K", 1980' FSL & 2030' FWL Sec. 31, T-17-S, R-35-E Vacuum; Abo, North and Wolfcamp Pools Lea County, New Mexico

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Sincerely,

In William

Bryan L. Williams Production Engineer (505) 393-7106

n:/regltory/commling/dhc/wio/ws1#6_a Enclosure

Agreed and accepted this_	24 th	day of	March	1998
by Amerkel	Collin)m		, as representative of
ALTURA	ENERGY	LTD.		·

A subsidiary of USX Corporation



STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

> OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

3/12/98

POST OFFICE BOX 1980 HOBBS, NEW MEXICO 88241-1980 (505) 393-6161

GOVERNOR

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

RE: Proposed:

MC		
DHC	X	
NSL	7	
NSP		
SWD		
WFX		
PMX		

Gentlemen:

I have examined the application for the:

31-175-35e arn arat Operator & Well Lease S-T-R No.

and my recommendations are as follows:

approva mmun

Yours very truly,

Chris Williams Supervisor, District l

/ed



March 9, 1998

Mr. David Catanach Energy and Minerals Department Oil Conservation Division P.O. Box 2088 Santa Fe, NM 87501-2088

Re: Request for Exception to Rule 303-A Downhole Commingling Warn St. A/C 1 No. 6 UL "K", 1980' FSL & 2030' FWL Sec. 31, T-17-S, R-35-E Vacuum; Abo, North and Wolfcamp Pools Lea County, New Mexico

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Bryan L. Williams Production Engineer (505) 393-7106

n:/regltory/commling/dhc/coverpag/ws1#6_b Enclosure



March 9, 1998

Mr. Pete Martinez Commissioner of Public Lands State Land Office Building P.O. Box 1148 Santa Fe, NM 87504-1148

Re: Request for Exception to Rule 303-A Downhole Commingling Warn St. A/C 1 No. 6 UL "K", 1980' FSL & 2030' FWL Sec. 31, T-17-S, R-35-E Vacuum; Abo, North and Wolfcamp Pools Lea County, New Mexico

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by to Willow

Bryan L. Williams Production Engineer (505) 393-7106

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March 9, 1998

Altura Energy Ltd. Fasken Center, Tower 1 500 W. Texas Suite 1225 Midland, TX 79701

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In When

Bryan L. Williams Production Engineer (505) 393-7106

n:/regltory/commling/dhc/wio/ws1#6_a Enclosure

Agreed and accepted this	day of	1998
by		, as representative of



March 9, 1998

Phillips Petroleum Company 4001 Penbrook Odessa, TX 79762

Re: Request for Exception to Rule 303-A Downhole Commingling Warn St. A/C 1 No. 6 UL "K", 1980' FSL & 2030' FWL Sec. 31, T-17-S, R-35-E Vacuum; Abo, North and Wolfcamp Pools Lea County, New Mexico

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By h Willag

Bryan L. Williams Production Engineer (505) 393-7106

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Agreed and accepted this	day of	1998
by		, as representative of



March 9, 1998

Texaco Exploration and Producing Inc. Heritage Center PO Box 3109 Midland, TX 79702-3109

Re: Request for Exception to Rule 303-A Downhole Commingling Warn St. A/C 1 No. 6 UL "K", 1980' FSL & 2030' FWL Sec. 31, T-17-S, R-35-E Vacuum; Abo, North and Wolfcamp Pools Lea County, New Mexico

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By to Willias

Bryan L. Williams Production Engineer (505) 393-7106

n:/regltory/commling/dhc/wio/ws1#6_c Enclosure

Agreed and accepted this	day of	1998
by		, as representative of

EXHIBIT "B" - CASE NO. 11353, ORDER NO. R-10470-A

DISTRICT I P.O. Box 1980, Hobbs, NM 88240 DISTRICT II 811 South First St., Artesis, NM 88210 DISTRICT III

COMPACIE

State of New Mexico Energy, Minerals and Natural Resources Department **OIL CONSERVATION DIVISION** 2040 S. Pacheco Santa Fa, New Mexico 87505-6429

Form C APPROVAL PROCESS: Administrative ____Hearing **EXISTING WELLBORE** X YES __ NO

> No - No - No

No

APPLICATION FOR DOWNHOLE COMMINGLING 1000 Ris Brazos Rd. Aztec, NM 87410

88240

Marathon Oil Company

Warn State A/C 1

PO Box 2409 Hobbs, NM

UL K. Sec.31, T-17-S, R-35-E Lea COURTY ng Unit Lease Types: Ichack 1 or r

OGRID NO014021_ Property Cod	e <u>6483</u> API NO. <u>30</u>	<u>-025-32311</u> Federal	, State X_, land/orl Fee
The following facts are submitted in support of downhole commingling:	Upper ,	intermediate	Lower
	Zonz	Zones	Zone

6

1. Pool Name and Pool Code	Vacuum; Abo, North 61760		Vacuum; Wolfcamp 62320		
2. Top and Bottom of Pay Section (Perforations)	8495-8572'		9436-10,058'		
3. Type of production (Oil or Gas)	011		011		
4. Method of Production (Flowing or Artificial Lift)	Artificial Lift		Artificial Lift		
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current	a. (Currens) 100 PBHP 2000 SBHP	8.	a. 100 PBHP 2150 SBHP		
Gas & Oll - Flowing: Measured Current All Gas Zones: Estimated Or Measured Original	b. (Driginel)	ь.	b.		
6. Oil Gravity ([°] API) or Gas BTU Content	41		41		
7. Producing or Shut-In?	Producing	1	Producing		
Production Marginal? (yes or no)	Yes		Yes		
* If Shut-In, give date and oil/gas/ water rates of last production	Date: Rates:	Date: Rates:	Dote: Rotes:		
Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data If Producting, give date andoil/gas/ water rates of recent test (within 60 days)	Date: 3/8/98 Rates: 16 / 0 / 2	Date: Rates:	Date: 9/23/97 Rates: 59 / 303 / 10		
8. Fixed Percentage Allocation Formula -% for each zone	Oll: 21 % Gas: 0 %	011: Gas: % %	Oii: 79 % Ges: 100 %		

If allocation formula is based upon something other than current or past production, or is based upon some other method, submit attachments with supporting data and/or explaining method and providing rate projections or other required data.

10. Are all working, overriding, and royalty interests identical in all commingled zones? If not, have all working, overriding, and royalty interests been notified by certified mail? Have all offset operators been given written notice of the proposed downhole commingling? X Yes -Yes -X Yes -

11. Will cross-flow occur? Yes X No If yes, are fluids compatible, will the formations not be damaged, will any cross-flowed production be recovered, and will the allocation formula be reliable. Yes No (If No, attach explanation) Yes

12. Are all produced fluids from all commingled zones compatible with each other? X Yes

13. Will the value of production be decreased by commingling? Yes X No (If Yes, attach explanation)

14. If this well is on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bureau of Land Management has been notified in writing of this application. XYes No

ORDER NO(S). 15. NMOCD Reference Cases for Rule 303(C) Exceptions: DHC No. 1775

16. ATTACHMENTS:
C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
Production curve for each zone for at least one year. (If not available, attach explaination.)
For zones with no production history, estimated production rates and supporting data.
Data to support allocation method or formula.
Notification list of all offset operators.
Notification list of working, overriding, and royalty interests for uncommon interest cases.
Any additional statements, data, or documents required to support commingling.

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

SIGNATURE

TYPE OR PRINT NAME _____Bryan L. Williams

_ TELEPHONE NO. (_505 _) ____393-7106_

REQUEST FOR EXCEPTION TO RULE 303-A Warn St. A/C 1 No. 6 Vacuum Field

A: Operator

Marathon Oil Company P.O. Box 2409 Hobbs, NM 88241-2409

B: Lease Name and Well Number

Warn St. A/C 1 No. 6 UL "K" 1980' FSL & 2030' FWL Sec. 31, T-17-S, R-35-E Lea Co., New Mexico Vacuum: Abo and Wolfcamp Pools

C: Plats and Offset Operators

Attached

D: Form C-116

Attached

E: Production Decline Curves

Attached

F: Estimated Bottomhole Pressures

Vacuum (Abo) - 2000 psi Vacuum (Wolfcamp) - 2150 psi

G: Fluid Characteristics

Marathon currently has downhole commingled the Abo, Wolfcamp, and Penn in the offset Warn St. A/C 1 No. 7 (DHC-1775) without a fluid capability problem. Therefore, fluid characteristics should not be detrimental to production.

H: Value

Marathon receives the same price for the products from each zone and value will not be adversely affected.

Request for Exception to Rule 303-A Warn St. A/C 1 No. 6 Page 2

I: Production Allocation

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	<u>Oil</u>	<u>Gas</u>	Water
<u>Production Tests</u> Vacuum (Wolfcamp) Vacuum (Abo) Vacuum (Abo/Wolfcamp)	59 <u>16</u> 75 BOPD	303 <u>0</u> 300 MCFD	109/23/97 Wolfcamp test2calculated123/8/98 Abo/Wolfcamp test
Allocated Percentages			
Vacuum (Wolfcamp)	79	100	83
Vacuum (Abo)	<u>21</u>	<u>0</u>	<u>17</u>
Total	100 %	100 %	100 %

J: Ownership

Ownership of all zones is common and correlative rights will not be violated.

K: Offset Operator Notification

By copy of this letter we are notifying all offset operators (attached) of the proposed commingling, by certified mail.

District I PO Box 1980, Hobbs, NM 88241-1980 District II 811 S. 1st Street, Artesia, NM 88210-2834 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 2040 South Pacheco, Santa Fe, NM 87505

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State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

Form C-102 Revised October 18, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND	ACREAGE	DEDICATION	PLAT
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1	API Number	Γ	² Pool Code			³ Pool Name				³ Pool Name		
30	-025-323	11	61760				Vacuum, Abo					
⁴ Property	Code		⁵ Property Name ⁶ Well Number					⁵ Property Name			Well Number	
648		_	Warn St. A/C 1						6			
7 OGRID	No.				-	rator Na				9 Elevation		
0140	21			····-	Maratho					GL 3979		
				1	Surfac	e Locati						
UL or lot no.	Section	Township	Range	Lot. Id	1		North/South Line	Feet from the	East/West line			
K	31	17S	35E			80	South	2030	West	Lea		
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UL or lot no.	Section	Township	Range	Lot. Id	In Feet fro	m the	North/South Line	Feet from the	East/West line	County		
¹² Dedicated Acre 80	s ¹³ Joint	or Infill 14	Consolidatior	n Code	¹⁵ Order No.		<u></u>		• · · · · · · · · · · · · · · · · · · ·			
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NO ALLOV	ABLE N						APPROVED B			NSOLIDATED		
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							31	UPERA	TOR CERTII	FICATION on contained herein is		
								true and complete	to the best of my	knowledge and belief.		
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			Per Tellas									
	Signature							7				
Bryan L. Williams												
			1				•	Printed Name				
	1		BD DEDICATED ACZES Production Engineer									
			Å					Title	1000			
	F							March 10, Date	1330			
			ĸ				· · · · · · · · · · · · · · · · · · ·		YOR CERT			
	1		#6					I hereby certify th	h at the well l ocal	ion shown on this plat		
	2030'-		1				•	was plotted from	field notes of a	ctual surveys made by that the same is true		
	2020							and correct to the b	est of my belief.			
			1									
	F	,										
ļ		Date of Survey										
		198	30'				Signature and Seal of Professional Surveyer:					
		1						li l				
			,					Certificate Number	ж Х			

District I PO Box 1980, Hobbs, NM 88241-1980 District II 811 S. 1st Street, Artesia, NM 88210-2834 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 2040 South Pacheco, Santa Fe, NM 87505 State of New Mexico Energy, Minerals & Natural Resources Department

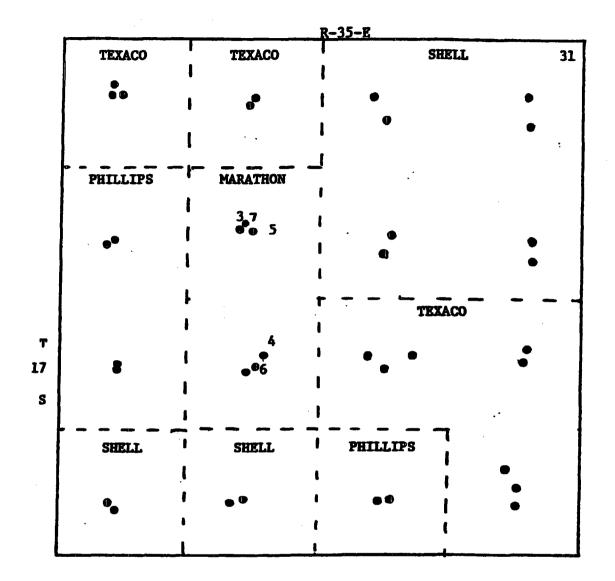
OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

Form C-102 Revised October 18, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

	WELL	LOCATION	AND	ACREAGE	DEDICATION	PLAT
--	------	----------	-----	---------	------------	------

1	API Numbe	r		² Pool	Code		-	³ Pool Name	3	
30)-025-323	811		623				Vacuum, Wol	fcamp	
⁴ Property	Code				5 P	roperty Na	me			⁶ Well Number
648	3				War	n St. A	/C 1			6
7 OGRID	No.				8 O	perator Na	me			9 Elevation
0140	21					<u>on 011</u>	Company			GL 3979
					¹⁰ Surfa	ce Locat	ion			
UL or lot no.	Section	Township	Range	Lot. Id	n Feet fr	om the	North/South Line	Feet from the	East/West li	ne County
К	31	17S	35E			1980	South	2030	West	Lea
			¹¹ Bo	ttom H	ole Location	a If Diffe	erent From Surfac	ce		
UL or lot no.	Section	Township	Range	Lot. Id	n Feet fi	rom the	North/South Line	Feet from the	East/West 1	ine County
¹² Dedicated Acre 80	s ¹³ Joint	or Infill	¹⁴ Consolidation	n Code	15 Order No.			I	1	
L	WABLE W									ONSOLIDATED
		OR A	NONSTA	NDAR	D UNIT HA	S BEEN	APPROVED B	Y THE DIVISIO	ON	
							31	I hereby certify I	that the inform	TIFICATION ation contained herein is my knowledge and belief.
			ĺ							
		.,.						Par	1/1ll	las 1
								Signature Bryan L. M	/illiams	
			1	\sim	80 DEDI	CATED	Acres	Printed Name		
1	ſ			کے		_		Production	n Engineer	•
			1					March 10.	1009	
		•						Date	1990	
			ĸ					¹⁸ SURVE	YOR CER	TIFICATION
			#6			· ·		was plotted from	field notes of	cation shown on this plat ^f actual surveys made by nd that the same is true
	2030' -	<u></u>						and correct to the b	est of my belief.	
		,								
								Date of Survey		
		I	1980'					Signature and Sea	al of Professions	ıl Surveyer;
								Certificate Number	er	



LAND PLAT

VACUUM AREA

LEA COUNTY, NEW MEXICO

1" = 1000"

3 2/94

2

Marathon Oil Company Warn St. A/C 1 No. 6 UL "K", 1980' FSL & 2030' FWL Section 31, T-17-S, R-35-E Lea County, New Mexico Vacuum Field

Offset Operators and Addresses

Altura Energy Ltd. Fasken Center, Tower 1 500 W. Texas Suite 1225 Midland, TX 79701

. . .

Phillips Petroleum Company 4001 Penbrook Odessa, TX 79762

Texaco Exploration and Producing Inc. Heritage Center, Midland, TX 79701 P.O. Box 3109, Midland, TX 79702-3109 State of New Mexico Energy, Minerals and Natural Resources Department

Form C-116 Revised 1/1/89

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OIL CONSERVATION DIVISION 2040 Pacheco St. Santa Fe, NM 87505

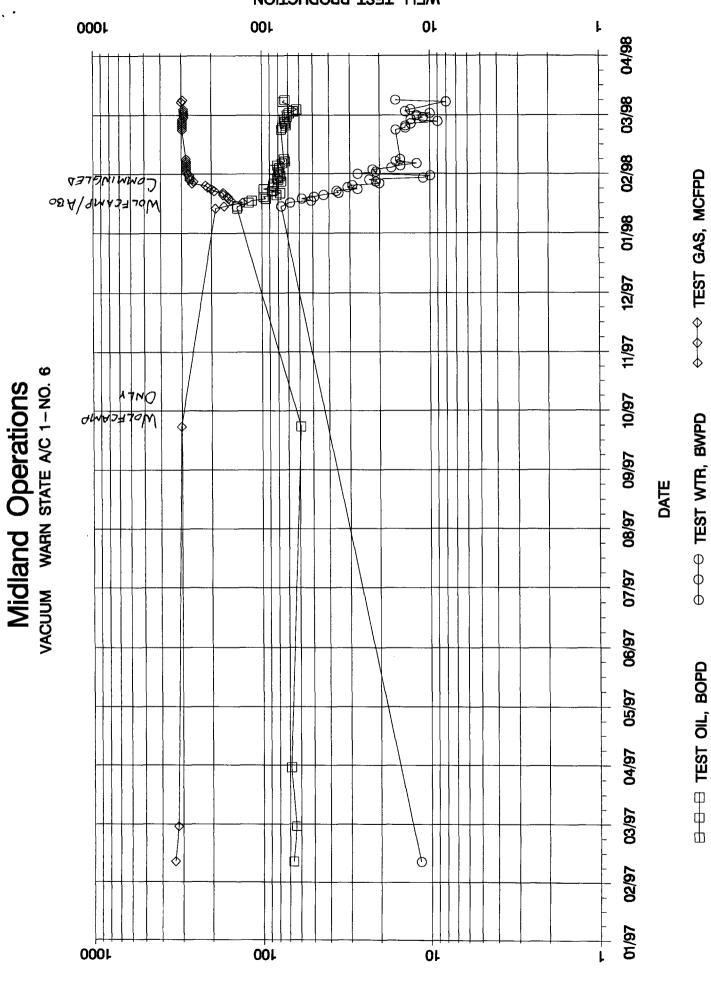
DISTRICT II 811 S. 1st Street, Artesia, NM 88210-2834 DISTRICT III 1000 Rio Brazos Rd., Aziec, NM 87410

Submit 2 copies to Appropriate District Office. DISTRICT 1 P.O. Box 1980, Hobbs, NM 88240

GAS - OIL, RATIO TEST

Operator							Pool					<u>රී</u>	County			
Marathon 011 Company							Va	Vacuum: Abo.	North / Wolfcamp	Wolfcamp					Lea	
Address P. 0. Box 2409 Hobbs NM 8	88240							TYPE OF TEST - (X)	Scheduled	<u>م</u>	ŏ	Completion		Spe	Special	_
				LOCATION	Z					DAILY	LENGTH		PROD. DUI	PROD. DURING TEST		GAS-OIL
LEASE NAME	MEL			 ه		œ	UATE OF TEST		PRESS.	ALLOW- ABLE	TEST HOURS	WATER BBLS	GRAV. OIL	OIL BBLS.	GAS M.C.F.	RATIO CU.FT/BBL
Warn State A/C 1	9	×	<u> </u>	31	17	35	3/8/98	٩			24	12		75	303	4040
Zone 011 Gas																
Abo, North 21 0														16	0	
Wolfcamp 79 100														59	303	5135
						<u>.</u>			<u>.</u>							
INFORMATION ONLY		<u>.</u>														
					<u></u>								· · · · · ·			
		<u> </u>			<u>.</u>				·				· · · · ·			
Instructions		-	-	-	4						I hereby certify that the above information is true and	tify that t	he above	c informat	tion is tru	ie and
During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in	ll shall be	produ	ced at	a rate n	ot exce	eding 1	he top unit all	owable for the	pool in	8	complete to the best of my knowledge and belief. \mathcal{K}_{a}	the best e^{-1}	of my kn -7	owledge	and belie	. :
which well is notated by thore that 22 percent. Operator is encouraged to take advantage of this 22 percent foremer and order that well can be assigned increased allowables when authorized by the Division.	ed allowab	les wh	ino er n en aut	horized	by the	Divisio	unage or uns Di.			S.	$\pi \mathbf{a}$		j			
Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60 °F.	MCF mea	Isured	at a pr	essure	base of	15.02	psia and a te	mperature of 6	50 °F.	¥ —	Kelly Cook	Y		Recor	Records Processor	essor
Specific gravity base will be 0.60. Report casing pressure in lieu of tubing pressure for any well producing through casing.	tubing pre	ssure f	for any	well p	roducir	ig throi	igh casing.			<u>لة</u>	Printed name and title	ie and titl	e			
•	•		•	•))			<u>ຕີ</u>	3/10/98			39	393-7106	
See Rule 301. Rule 1116 & annronriate nool rules.)	propriat	e poc	ol rulo	es.)						<u> </u>	Date				Telephone No.	ne No.

(See Rule 301, Rule 1116 & appropriate pool rules.)



WELL TEST PRODUCTION

WELL TEST PRODUCTION

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