Mid-Continent Region Production United States



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

393-7106

November 4, 1991

Mr. Michael E. Stogner Energy, Minerals and Natural Resources Department Oil Conservation Division P. O. Box 2088 Santa Fe, NM 87501

RE: Request for Exemption to Rule 303-A Downhole Commingling Pioneer Federal Com No. 1 Section 19, T-21-S, R-27-E Wildrad La Huerta Strawn, La Huerta Atoka Eddy County, New Mexico

Dear Mr. Stogner: Undeugnahiel

Marathon Oil Company respectfully requests Administration approval for an Exemption to Rule 303-A to permit the downhole commingling of production from the La Huerta Atoka Pools in the subject well.

Waldcar The above referenced well was recompleted to the La Huerta Strawn and the La Huerta Atoka and put on production at the time of the workover. Our interpretation was that both perforated intervals were in the Strawn, however, after review by the State of New Mexico Geologist, Darryl Moore, it was brought to Marathon Oil Company's attention that both the Strawn and Atoka had been perforated.

While a definitive zone test has not been conducted on the two zones separately based on pressure response, it is believed that the vast majority of the current production is from the La Huerta Strawn. Due to the overpressured nature of the zones in question, Marathon Oil Company feels that further wellbore testing and zone isolation would pose unnecessary risks from both safety and economic standpoints. Marathon would however conduct more definitive zone testing during the next necessary workover procedure.

All ownership (WI, Royalty, and ORRI) in the wellbore is the same. AS required, additional information is attached and all offset operators are being notified by copy of this application.

Mr. Michael E. Stogner November 4, 1991 Page 2

Wildref

In summary, Marathon feels that as a prudent operator, we can effectively downhole commingle the Le Huerta Strawn and La Huerta Atoka and maximize production by doing so. We look forward to your approval of this application.

Undesignated

Sincerely,

.

Steven P. L unden

Steven P. Guidry V Production Superintendent

## ATTACHMENT NO. 1

•

Request f	or exemption to Rule 303-A
La Huerca	(Strawn), La Huerta (Atoka) pools County, New Mexico Modes-sne feel
Α.	Marathon Oil Company P. O. Box 552 Midland, TX 79702
В.	Pioneer Federal Com No. 1 Unit G, 1980' FNL & 1740'FEL Section 19, T-21-S, R-27-E Eddy county, New Mexico (See attachment No. 2 Form 3160-5)
С.	Plat of area can be seen on attachments 3 & 4. $w/dcat$
D.	Form C-116 for La Huerta Strawn Completion (Attachment 5) Form C-116 for La Huerta Atoka Completion (Attachment 6)
Ε.	Natural Completion - Both the La Huerta Strawn & La Huerta Atoka were perforated and hooked up to flow w/no stimulation. Based on pressure response following perforating, the La Huerta Strawn is providing the majority of the wells production.
F.	Bottomhole pressure for both zones in question was estimated from hydrostatic fluid column used during workover operations.
	La Huerta Strawn - 4621 PSI
	La Huerta Atoka - 4729 PSI
G.	Fluids have been analyzed and no incompatibilities exist.
Н.	Analysis of the produced fluid indicates no reduction in value from commingling.

## ATTACHMENT NO. 1 Request for Exemption to Rule 303-A Page 2

• •

•.

I. Estimated production assuming 90% contribution for the Lassimerta Strawn based on pressure response following perforating.

Zone	<u>Oil (BOPD)</u>	<u>0il (%)</u>	Gas (MCFPD)	<u>Gas (%)</u>	Water (BWPD)
Utilica + Latimessa Strawn la	aş 13.5	90	2285.8	82.8	0
(Estimated) <i>Undegis no best</i> La Huerta Atoka <i>Go.</i> (Estimated)	<b>£</b> 1.5	10	476.2	17.2	0

J. By copy of this letter via certified mail, we are notifying all offset operators of the proposed commingling.

		TACHMENT NO. 2	
Form 3160-5 June 1990)	DEPARTMEN	TED STATES	FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31. 1993
	BUREAU OF L	LAND MANAGEMENT	5. Lease Designation and Serial No.
	rm for proposals to dri	AND REPORTS ON WELLS III or to deepen or reentry to a different reservoir. R PERMIT-'' for such proposals	6. If Indian. Allonee or Tribe Name
	SUBMIT	IN TRIPLICATE	7. If Unit or CA, Agreement Designation
i. Type of Well Oil Gas Well X Well	Other		8. Well Name and No.
2. Name of Operator			Pioneer Federal Com #1
Marathon Oil Co	· · ·		9. API Well No.
P. 0. Box 552	Midland, TX 7	0702	30-015-24777 10. Field and Pool, or Exploratory Area
-	. Sec., T., R., M., or Survey De FNL & 1740' FEL 5, R-27-E	scription)	La Huerta-S <del>trawn/</del> Atoka <u>s</u> 11. County or Parsh, State Will Eddy County, New Mexico G
CHECK A	PPROPRIATE BOX(	s) TO INDICATE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF S	UBMISSION	TYPE OF ACTION	
X Notice of	Intent	Abandonment Recompletion	Change of Plans
Subsequen	il Report	Plugging Back Casing Repair	Non-Routine Fracturing Water Shut-Off
🗌 Final Aba	ndonment Notice	Altering Casing X Other Downhole Commissiqle	Conversion to Injection Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form is
		pertinent details, and give pertinent dates, including estimated date of starting al depths for all markers and zones pertinent to this work 1°	g any proposed work. If well is directionally drive

14. [ hereby c	Steven P. Guidry Stoven P. Judun	Tide_	Production Superintendent	Date 11-5-91
(This space	e for Federal or State office use)			
	by	Title _		Date
Title 18 U.S.C	Section 1001, makes it a crime for any nerron knowingth	and mill	fully to make to any descriptions as according of the United S	Inner and false Cariners of fault

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statement or representations as to any matter within its jurisdiction. Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

.

DISTRICT I 2.0. Box 1980, Hobbs, NM 88240

• •

PISTRICT II 2.0. Drawer DD, Artesia, NM 88210

## DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

## WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

							··	
Operator				Lease				Well No.
Marat	hon Oil Com	pany			r Federal			1
Unit Letter	Section	Township		Range			County	
G	19	21S		27E		NM	PM Eddy	
Actual Footage Lo	cation of Well:			- <u></u>				
1980	feet from the	North	line and	1740		fe <b>ct fr</b>	om the East	line
Ground level Elev.		icing Formation	1 1	Pool	,	•		Dedicated Acreage:
3181	Latte	erta Strawn	lear-	L L	erta Stra	and Car	-	320 Acres
		ated to the subject we	li by colored per	cil or hachure r	narks on the pi	at below.		
		•						
2. If mo	re than one lease is	dedicated to the well,	outline each and	i identify the ow	nership thereo	f (both as to wo	wking interest and i	royaity).
		different ownership is	dedicated to the	e well, have the	interest of all o	wners been co	nsolidated by comm	munitization,
unitiz	ation, force-pooling							
If an envi	Yes	I No If an mens and tract descript		pe of consolidati		Teo muomo eide		
	n if neccessary.	tiers and tract descript		actually deel c	ousonomen. ()	Jac leverse high		
		ed to the well until all	interests have b	een consolidated	by communi	lization, unitiza	tion, forced-poolin	z, or otherwise)
or until	a non-standard unit,	eliminating such inter	est, has been ap	proved by the D	ivision.		F	
	- <u> </u>							
/	1		1	1	1			OR CERTIFICATION
					•	/		certify that the information
			1980'		 			n in true and complete to the
	1		1		1	/ ]	best of my knowl	eoge ana joeilet.
					1	( 1	Signature	F. Dudun
	1							$\mathcal{T}$
	Í				l		Steven P. G	uidry
	i						Printed Name	
			+		<u>├</u>	· — — — — /	Production	Superintendent
					1		Position	
	ļ					<u>.</u>	Marathon Oi	1 Company
					174	0'	Company	<u> </u>
				×_		7	11-5-91	
	1			0			Date	
d.	i				i			
Т		Sec.	19					
							SURVEY	OR CERTIFICATION
21	i						L banks and	that the well location shows
S	1							) that the well location shown as plotted from field notes of
5	ł							made by me or under my
	l							i that the same is true and
	Í					1		best of my knowledge and
	1						belief.	
	i							
	1						Date Surveyed	
	— — —;— —		1	· · · · ·				
	1						Signature & Sea Professional Sur	u of
	1						TIOICOBIUMA SU	
	1							
	1		1					
	İ		1					
	i					1		
		R	27 E	•			Certificate No.	
			L				1	
			<b></b>			·		
0 330 660	990 1320 165	50 <b>1980 2310</b> 26	40 200	0 1500	1000	500 0	1	1

ATTACHMENT NO. 3A State of New Mexico

**OIL CONSERVATION DIVISION** 

P.O. Box 2088 Santa Fe, New Mexico 87504-2088

Energy, Minerals and Natural Resources Department

Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

٠

DISTRICT I P.O. Box 1980, Hobbs, NM 88240

• •

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

## ATTACHMENT NO. 3B State of New Mexico Energy, Minerals and Natural Resources Department

## **OIL CONSERVATION DIVISION**

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator				···		Lease					Well No.	
Mar	athon C	il Com	pany			Pio	neer Fee	leral			1	
Unit Letter	Secti		Tov	waship		Range				County	4 A	
G		19		215	S		27E	1	MPM	E	ddy	
Actual Footag		f Well:										
198	1000	from the	Nor		line and	174				the East	line	
Ground level		1	icing For			Pool		is noter	1		Dedicated Acre	age:
318				Atoka			a Huert				320	Acres
2. I 3. I	f more than f more than initization, fo Yes	one lease is one lease of orce-pooling	dedicated different , etc.?	to the well, o ownership is If any	dedicated to th swer is "yes" ty	nd identify the ne well, have t ype of consolid	ownership the he interest of lation	ereof (both as to all owners been	consol	lidated by comr	,	
this No	form if nece allowable wi	cessary ill be assign	ed to the	well until all		been consolida	ited (by comm	d. (Use reverse nunitization, uni			g, or otherwise)	
T 21 S				Sec.		1980'		1740'		I hereby ontained hereit est of my known I ULLEN Steven P. Trinted Name Productio osition Marathon 0 company II-5-9 hate SURVEY hereby certify n this plat we clual surveys	n Superinte il Company	he information complete to the column field notes of or under my
				R	27 E						best of my l	
0 330 6	60 990	1320 165	0 1980	2310 264	40 20	00 1500	1000	500	-   F			

	Avoion-Fed Higg	A TOHSID? WH SA	13 103 - Fra Berry 16 - 222 1. Sweich	· · · · · · · · · · · · · · · · · · ·		6, 5 4, 1, 553 6, 14, 2, 3 45 7, 14, 12, 3 45 7, 14, 12, 13, 14, 14, 14, 14, 14, 14, 14, 14, 14, 14
USRERIO PECOS	SERVOIR OSSSZER 20	1.10 1 WET, MOD-1 Jeffers, B	Harris Augusta	HBC Seng	ACHMENT NO. 4	_
10+05 Pe+ 1108	Sadi - Fea	32 (Mil 42 0501753 11 Mobili	(P/B)	Conta Fr. 1 Epice	176 - 1 Dual U.S	• 4
Mobil Inexco H8P 13606 C4*2633		(Petrus) (Petrus) (239)=1	HPC	Sel (2. Server) (Conserver)	Coouros Bengai 72 CEDAR Varias real transformed (YATES) Ser dana contra transformed (H.E. YAT	ES
US US RS	Boyesime 2 102 5		HBC 10845	Rey Westall 1 5+ Myrt P 7+ 5+ 8 Sor. Disc. Mura - 5+ 5+ 8 Soli. Ray Westall - Frynn	Example for	Ameri
Honde O E,G	Hondo O E, G Monsento A89999 Diresa Das 26 74		Cities Serv. 1884 233	Murtle Murd Del. Disc. J. I. CR. A. G. 5699 Varse Per. Size Visar IJ M. Huller Service Iber Comtro Hizz	Lievacon ou cc2 "Trainin 2344 (Londo: losingc ) 1352 hr cranst = 1051957 - wiz HBC Kerenst =	1. 1899 Hu 4 -
U A. Yates, etal. 73 4 70 M D Wilson 2 · 20 84 14 14	13		Companies HL Brown	10er Conting 1121 2 2200	Dual Autor IS	•180 •
tote	Hogsente (mito)	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Cit Sere Commenter Herces	Exan Exan Exam		
Jossen So Avalon.	US.	Avalon-Fed	MARSTHONSIDIL CO. PIDNER FED = 1 OXY	υ 3 μημε 611 υ	27	• -
Yanna Yares, Honde OE,G J. J. M. D. Wilson Wilson (04895 15) 20-84 Boyd (1-1000)	OP.G TONSEL I International August Statements	HEP Words - 0354442	400 (0.5.5.1 1.5.5.1	₩ (Amoco)	PH hoss Tr.	••
tesped Son & A Vates Art	Hanagan Pet. Yates Pet.	MIT STATE () MIT STATE () TTO AND TOTIST (Rediffed () SUI () HBC () HBC () HBC () HBC () TTO AND TOTIST (Rediffed () HBC () HBC () TTO AND () HBC () TTO AND ()	MBC OT STUDIES (C. STORE) olisse. (C. Serv.) mis 9 J Anse M. S. MudelSimpan (C. S. Serv.) mis 9 J Misson M. S. MudelSimpan (C. S. Serv.) mis 9 J	Gory 54	State 22 51 5	
Che Start And Starten La Contraction Contr	0265356 yperf m27na Noim Grud	TXO HEP HEP	-( Commo - Elizonan Fed.	Berran 5 5 17	Austioned 2500 , 2500 , 2600	- 6
August Care Ton 19-26 D		Payrous Forr age (anistes 14. 00 4	Signar Siz HRC Signar Siz HRC Size Size HRC Size Size Size HRC Size Size Size Size Size Size Size Size	Elizondo Fed "		
Alers Jine ba 37 Alers Jine Jine Jine Jine Jine Jine Jine ba 37 Alers Jine ba 37 Alers Jine Jine Jine Jine Jine Jine Jine Jine		Tati te Mestfelt Mes Bere Me. erd	TO: IBJR - E Davis	0354232 Hisber U.S. Mine	VCH Serv.) NSS3785	Amo naca
ADV HOUSE - Ro Fecos	Sterme (challen ) Cit. Serv	Citizenvila 5 Citizenvila 5 Citize		OXY 2B	Proneer Prod 121 Action	shi p
Stee Workle 28 Stell Protest	9 28 99 98 10 1 ( TX0')- 21 65	37 25 7 C 10-20-75 20	Co Huerta Subid OXY	Chiendo Crawiey Oxy /2 1990 Pre- Undon / Control Pre- Her / Control Pre- ter / Control Pre-	HBP 0354232 5248C	
Diesasse U S Springe Ferme R Dinoson Pet	Astrois is a lis M. Wilson	La Hu <del>a</del> rta Subd. City of Corlebod Beico	Сайзвая 12-16-72 (4-16-76 ОХУ ОХУ НВР НВР	Carry Control 1 Amoco	US "Gov"	7 7
0265356 Tition Honegon Prt HBP 1 931 359 U 5	25884 25884 24. corrot AD W	*ivii Mollie La muerta Sued	(Cit Seri ), rocy (Wolgtu c 1844		0354232MBC	- 
Ande Of,G	36	31	32 La Martia Subrivision PC Benneti La Directoridad	More IGNI 33/14 5	48652 (C) Ser.) 987 Sale	Qr.
*************************************	State	FLAT	Trancis Cew ing	Oxv 12 19 10 150 17 10 17 10 17 15 17 10 17 10 17 17 17 17 17 17 17 17 17 17 17 17 17	Champin (Fianer 12) Champin (Fianer 12) States	е. 17 1
Ja Ja VJ J Meckellan Onl				10 10 4140 62-3139 90 7119 78 2 (Permitten) - 2.4 Unuedo	Union Oil Further Old in to the	5- 
5:13 c. Brona Roserta	CARLS	BAD	Beico Beico	Mersel. Fed SS SS SS SS SS SS SS SS SS SS SS SS SS	(1712WF11/,(14)) U473303 States 8 / FoubienOLGie 15% Wrstill Penn 7011 M.P.Grace HBP Belco 2 (454016	м Н8
5 m. Tris	1	6 //	Carrier De Barres	Guinoco yn.cn.	Union O HBP U.S.(M) Union PS (CHS)	<u>Ş.</u>
Lity of Varisbad Koiser-Francis			(M P Groce) Sm Trs Sm T	Beleat	Cartel - Butiendene ***-	۲. F
1) Set* (A J Arrtweit) Meso, GIG(S M. & Antweit) etol 	A J.Artweil Artweiler 14 27 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	CCK Pet etal   Quinoco w/2 E/2 +	OXY Enron Ibeion Merri	Unior. URD Urs Jareis Mard V 711 -	3 J Serenseni () 306 0° C4733C3 501 Dec 10 0 0° C4733C3 501 Dec 10 0° C4733C3	٢,
TA Wood ( 5158	K Giloon Antwey K Giloon 2 Bararo a	7 Quinoro Douglioss	Belco OXY Belco Bata Marri Micer Belco Bata Marri Micer Belco Bata Marri Micer Belco	No din froit	Tocy Birrer Casadois	
Ancis PV 6410 Willion Brozent Starts	State State A Colored State		Posiay Dan He Score (Cit Serv)	Union Union S 9 73 HBU Union S 9 73 HBU Lingt HBL HBU A. Lenor Ursse ( 2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	VE TE ALTON TO ALTON	ban-
City of forlabed	Im Dien ser) Sm Dien ser) S.Bauer,M Im fri Im fri Welking	- Corisbard - City at - City - City at - City at - City - City - City at - City - Cit		Preside forma A Cooff Anorson	TO IIBSE . Ener TO IIBSE . 4 IB BB SOM	
15770 14205	Napa Res Enstar Pet. 3 6 6 - ARCO 2 27 87 0	C-+ + es Serv / 5.5	CXY Brother Asherida	IReserve Quille and Arman		10
ysion of a series Area		Cut Serve 18	OF. Bigsange	ANI LETOI	15 4 CP - 77	
Eak Pet Val	HELS.	+ Sources States	S BFOEner	W/2 Enron ( C.H. Enron Car's E. B' HAD B Bodest) C. 6.37 1. 678. 536. Bodest) C. 6.37 1. 678. 536.	WCDsc I 6 Mil.	: 2

Submit 2 copies to propriate Distruct Office. Distruct J P.O. Box 1980, Hobbs, NM 88240 DISTRICT II P.O. Drawer DD, Artesia, NM 88210 DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

ATTACHEENT NO. 5 State of tew Mexico Energy, Minerals and Neural Resources Department

# OIL CONSERVATION DIVISION

P.O. Box 2088 Santa Fe, New Mexico 87504-2088

					GA	<b>AS - OIL RATIO TEST</b>	<b>ZAT</b>	TO TE	ST								
Operator Marathon Oil Company						La Hierta (Strawn 84 5	rawn	Sec S	*			3 J	County Eddy	~			
Address P. O. Box 552 Midland, TX	79702				2	1)/d/2 m 1	TYPE OF TEST - (X)	шX	Scheduled	P	3	Completion		S	Special X		
	MELL		8	LOCATION		DATE OF	sni		TBC	DAILY	LENGIN	ЪН	PROD. DURING TEST	IG TEST	 	CAS OIL	
LEASE NAME	<u>ğ</u>	∍	S	-	æ	TEST	TAT2	SIZE	PRESS	ALLOW- ABLE	TEST	WATER BBLS.	GRAV.	BBLS	GAS M.C.F.	RATIO CU.FT/BBL	
Pioneer Federal Com		لئے	19	21	27	10/15/91 (Estimated)	<u>н</u>	13/64"	3000	Gas	24	0	53	13.5	2485.8	184,100	
													<u> </u>				
Instructions:								+   			I hereby certify that the above information is	rtify that	the ab	ove info	mation i	s true and	
During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in	shall be	produc	ed at a	rate n	it excet	ding the top ur	it all	owable fo	or the pool		St.	Q		, (P.		the of high the test of a contracted	$\sim$
which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Division.	ercent. (	Dperato	or is en en aut	courage	d to tal hv the	ce advantage of	this 2	5 percent	t tolerance		Signature					- e s u mundad	7
Gas volumes must be reported in MCF measured at a pressure base of	MCF me	asured	at a p		base o	f 15.025 psia and a temperature of 60° F.	nd a	temperatu	ire of 60°	1	Steven P. Guidry, Production Superintendent	Guidry	, Produc	tion Sul	perinten	dent	
Specific gravity base will be 0.60.				;	•						Printed name and title	and title					
Report casing pressure in lieu of tubing pressure for any well producing through casing.	oing pres	sure fo	r any v	vell pro	ducing	through casing.	_				11-5-91	1	- - - - - - - - - - - - - - - - - - -		505 - 393-7106	9012.	
(See Dute 301 Ded. 1116 8	•		-							na	e				Teleph	MC No.	

-

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

Form C-116 Revised 1/1/89 •

1000 Rio Brazos Rd., Aztec, NM 87410 DISTRICT JI P.O. Drawer DD, Artesia, NM 88210 DISTRICT JIJ DISTRICT1 P.O. Box 1980, Hobbs, NM 88240 Submit 2 copies to Appropriate District Office.

State of New Mexico Energy, Minerals and Natural Resources Department

## Form C-116 Revised 1/1/89

\$,

## OIL CONSERVATION DIVISION P.O. Box 2088 Santa Fe, New Mexico 87504-2088

TOT OT DATIO TECT

					כ	UAD - UIL KAIIU IEDI	KA									
Operator					-	Pool /	l'ule	5 iced	led			3	County			
Marathon Oil Company						La Huerta (Atoka) Sa C	(Ato	oka) 🔏 c					Eddy			
	i						TYPE OF	OF 1	-	[	Ċ	-		ć	V V	
P. 0. Box 552 Midland,	≍	79702					1ESI - (X)	8	Scheduled		3	Completion	  [_	ጽ	special L	
	MELL		2007	LOCATION		DATEOF	รกม	CHOKE	TRG	DAILY	LENGTH	E E	PROD DURING TEST	IC TEST		GAS - OIL
LEASE NAME	9 2	5	S	-	œ	TEST	TAT2	SIZE	PRESS	ALLOW- ABLE	TEST HOURS	WATER BBLS.	GRAV.	OIL BBLS.	GAS MC.F.	CU.FT/BBL
Pioneer Federal Com		۵	19		27	10/15/91 (Estimated)	<u> </u>	13/64"	0000	Gas	24	o	23	1.5	276.2	18,400
, -																
Instructions:										<u> </u>	I hereby certify that the above information is complete to the best of my knowledge and belief.	rtify that he best o	the ab fmy kno	ove info wledge a	rmation nd belief	is true and
During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Division. Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.60. Report casine pressure in the order an verture for an verture for an verture through casine	il shall be percent. C sed allowab MCF mer	produce perato les whe asured	ed at a r is enc sn auth at a pr	rate ny courage conized essure	ot exce ed to ta by the base of	eding the top un ke advantage of Division. of 15.025 psia a	of this and a	llowable fi 25 percen a temperat	or the poor it toleranc ure of 60		Signature Signature Steven P. Guidry, Production Superintendent Printed name and title	Guidry,	Produc	(Reles tion sup	or es	time led) dent
	0		ì		9		ò			Date	11-2-71 Ite			·cor	Telephone No.	one No.

•

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

## Laboratory Services 1331 Tasker Drive Hobbs, New Mexico 88240

<sup>-</sup> -Telephone: (505) 397-3713

FOR:Marathon Oil Co.SAMPLEPioneer FederalAttention: Mr. Mike GreenoughIDENTIFICATION: Com Well No. 1P. O. Box 2409COMPANY:Marathon Oil Co.Hobbs, Nerw Mexico 88240LEASE:PLANT:

 SAMPLE DATA:DATE SAMPLED:
 GAS ()
 LIQUID (XX)

 ANALYSIS DATE:
 11-04-91
 SAMPLED BY:
 Mike Greenough

 PRESSURE - PSIG
 ANALYSIS BY:
 Rolland Perry

 SAMPLE TEMP. °F
 C1 to C2 RATIO

 ATMOS. TEMP. °F
 CO2 to C2 RATIO

 REMARKS:
 Sample Of Condensate.

## COMPONENT ANALYSIS

COMPONENT		MOL PERCENT	LIQ. VOL. PERCENT
Hydrogen Sulfide	(H2S)		
Nitrogen	(N2)	0.00	0.00
Carbon Dioxide	(CO2)	0.00	0.00
Methane	(C1)	0.26	0.10
Ethane	(C2)	0.69	0.43
Propane	(C3)	2.29	1.47
I-Butane	(IC4)	2.14	1.63
N-Butane	(NC4)	4.14	3.03
I-Pentane	(IC5)	5.80	4,94
N-Pentane	(NC5)	4.62	3.89
Hexane	(C6)	12.65	12.10
Heptanes Plus	(C7+)	67.41	72.41
		100.00	100.00
SPECIFIC GRAVIT	Υ-		
CALCULATE		0.664	API Gravity - 55.5 @60 F
VAPOR PRESSUR	E (ABSOLL	JTE) -	
CALCULATE		30.17	
MOLECULAR WT.		90.87	
CU. FT. /GAL.		23.81	

WELL DATA SHEET Strawn) FIELD LEASE AND WELL NO. Pioneer Federal Com No. 1 13 3/8" @ LOCATION 1980' FNL & 1740' FEL, Sec. 19, T215, R27E 517' COUNTY AND STATE \_\_\_\_ Eddy County, New Mexico\_ STATUS Producing Gas Well DV Tool @ 1503' TD 11,500' PBTD 11,105' KB 3,209' GL 3,181' antd w/1160 sx SURFACE CASING 13 3/8", 48#, H-40 set @ 517' <u>w/475 sx (circ).</u> INTERMEDIATE CASING 8 5/8", 24 & 32# set @ 2609' **8** 5/8" @ 2609' w/DV tool @ 1503'. Cemented w/a total of 2510 sx (did not circ). - <u>-</u> PRODUCTION CASING <u>4 1/2", 11.6 & 13.5#, N-80 set @</u> 11,500'. Cemented w/325 sx (did not circ). TUBING 2 3/8" w/packer set @ 10,116'. Wolfcamp 8952-60' squeezed w/100 sx LINER No liner. DV Tool @ 9979' RODS<u>None</u> 2 3/8" tbg & pkr @ 10,116' Strawn 10,258-10,594' CIBP @ 11,150' PUMPING UNIT None w/45' cmt +Morrow 11,187-. 11,216' CIBP @ 11,150' w/10' cmt PRESENT COMPLETION: (Formation and Interval) Morrow 11,267-Morrow 11,361-PBTD Strawn 10,258'-10,594' 11,431 .1,458 4 1/2" @ 11,500' HISTORY PREPARED BY: Carl A. Bagwell DATE 10/01/91