

Mid-Continent Region
Production United States



**Marathon
Oil Company**

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

RECEIVED

JUN 26 1989

**OIL CONSERVATION DIV.
SANTA FE**

June 16, 1989

CERTIFIED MAIL

Mr. David Catanach
Energy & Mineral Department
Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

RE: Request For Exception To Rule 303-A
Downhole Commingling
Marathon Oil Company
Lou Worthan No. 20, Unit "F",
2310' FNL & 2000' FWL, Sec. 11,
T-22-s, R-37-E
Wantz Abo
Wantz Granite Wash
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 subject well from the Wantz Abo and Wantz Granite Wash Pools in Lea County, New Mexico.

Currently, the well is equipped as a dual producer with the Wantz Abo flowing up the annulus and the Wantz Granite Wash pumping from the tubing string (see attached wellbore skematic). The Wantz Abo is currently shut-in as it has only been flow tested and never put on line commercially due to difficulty in obtaining a gas connection. The Granite Wash has been on pump since original completion of the well in July, 1988.

On April 20, 1989 a packer leakage test was performed on the Lou Worthan No. 20, which failed. Economics of the producing the Wantz Granite Wash dictate two options to correct this situation. First is to commingle the Wantz Granite Wash and the Wantz Abo zones or to set a cast iron bridge plug above the Wantz Granite Wash and temporarily abandon it. To avoid unnecessary loss of production from the Wantz Granite Wash it is requested that Marathon be allowed to commingle the two zones.

WDH/DGP/25/des

A subsidiary of USX Corporation

An Equal Opportunity Employer

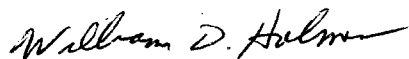
In the commingled completion, gas from both zones will be produced up the annulus and the oil will be pumped with the SN at ± 7415 . Total combined production following the commingling of both zones is estimated to be ± 4 BOPD, 1 BWPD, and 585 MCFD.

The Wantz Abo has yet to be commercially produced due to lack of a gathering line and gas contract. This problem should be cleared up by July 15th as gas sales contracts negotiations are nearly complete.

All ownership (W.I., Royalty and ORRI) in the wellbore is the same. Furthermore, commingling will not jeopardize any future secondary operations. Additional information as requested in Section 2 is attached.

By copy of this application, all offset operators are being notified of this application for downhole commingling. A list of the offset operators is attached for your information.

Sincerely,



William D. Holmes
Midland Operations Superintendent
(915) 682-1626

Attachment

- c) Plat of area attached (attachment No. 1, 2, 3).
- d) Form C-116 for the Wantz Granite Wash completion attached (attachment No. 4).
Form C-116 for the Wantz Abo completion attached; zone is shut-in, never commercially produced (attachment No.5).
- e) Production curve showing the total production from the Wantz Granite Wash zone (attachment No. 6). Also production test performed on the Wantz Abo zone which is shut-in (attachment No. 7). Also attached is a wellbore diagram with well history showing the current and proposed wellbore configurations (attachments 8 and 9, respectively).
- f) Estimated BHP each zone:
 - 1. Wantz Abo - 1100 psi
 - 2. Wantz Granite Wash - 730 psi
- g) In reference to the GOR test data, the oil production will come mainly from the Granite Wash with the gas production predominant in the ABO. The small amount of water produced in the Granite Wash zone should not effect the Abo zone, as the Abo zone in certain areas is known to produce small amounts of water, so commingling of the produced hydrocarbons should not produce any adverse effects.
- h) As previously stated in the body of the letter if commingling is approved, production from the Granite Wash zone will be gained versus being temporarily abandoned and not produced at all.

The integrity of value of produced hydrocarbons should not be altered by commingling production. Therefore, the same market price should be obtained as if both zones were produced individually.

- i) Production taken from latest GOR test shows:

	<u>Oil (BBLS)</u>	<u>Gas (MCF)</u>
Wantz Abo	0	550
Wantz Granite Wash	4	35
Total	<u>4</u>	<u>585</u>

Therefore the allocated percentages should be:

	<u>Oil (%)</u>	<u>Gas (%)</u>
Wantz Abo	0	94
Wantz Granite Wash	<u>100</u>	<u>6</u>
	100	100

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

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

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

WELL API NO.

30-025-30285

5. Indicate Type of Lease

STATE ☐

FEE ☒

6. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"
(FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well:

OIL
WELL ☐

GAS
WELL ☐

Wantz Granite Wash-Oil
OTHER Wantz Abo-Gas

2. Name of Operator

Marathon Oil Company

3. Address of Operator

P. O. Box 552, Midland, TX 79702

4. Well Location

Unit Letter F : 2310 Feet From The North Line and 2000 Feet From The West Line

Section 11 Township 22S Range 37E NMPM Lea County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)

3355' GL

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐

PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐

CHANGE PLANS ☐

PULL OR ALTER CASING ☐

OTHER: Commingle ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐

ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐

PLUG AND ABANDONMENT ☐

CASING TEST AND CEMENT JOB ☐

OTHER: ☐

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Request authorization to commingle the Wantz Abo and Wantz Granite Wash.

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

SIGNATURE William D. Holmes TITLE Operations Superintendent DATE 6-15-85

TYPE OR PRINT NAME William D. Holmes

TELEPHONE NO. 915-682-1626

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
 Supersedes C-128
 Effective 1-1-65

ATTACHMENT NO. 1

All distances must be from the outer boundaries of the Section.

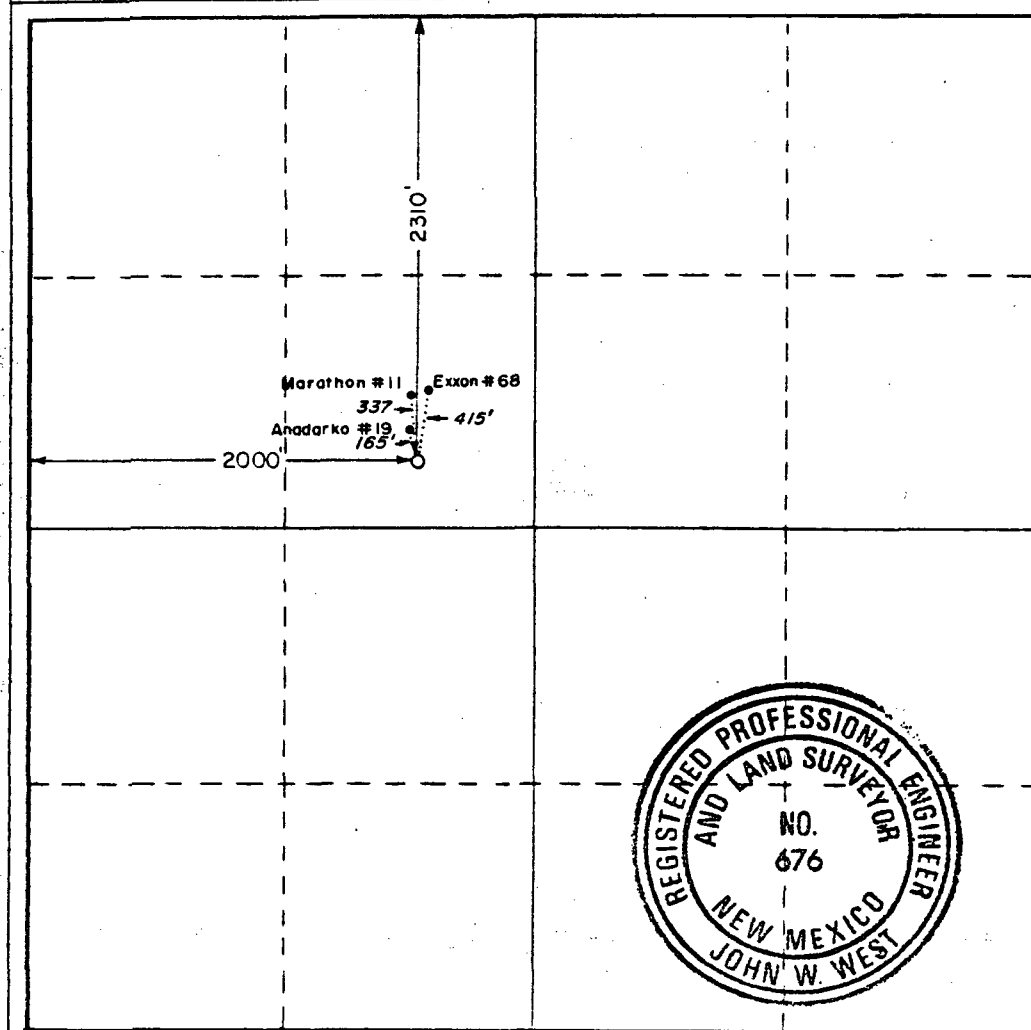
Operator Marathon Oil Company			Lease Worthan		Well No. 20
Unit Letter F	Section 11	Township 22 South	Range 37 East	County Lea	
Actual Footage Location of Well: 2310 feet from the north line and 2000 feet from the west line					
Ground Level Elev. 3355.3	Producing Formation		Pool		Dedicated Acreage: Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

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

Name _____

Position _____

Company _____

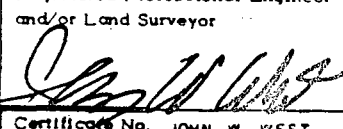
Date _____

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

February 25, 1988

Registered Professional Engineer and/or Land Surveyor


 Certificate No. **JOHN W. WEST, 676**
RONALD J. EIDSON, 3239

Cities Service

Exxon

Sun

LOU WORTHAN LEASE
T-22S, R-37E
Lea County, New Mexico

Only Abo wells shown

L. Brunson

Chevron

3

6 | 441
1 | 350

New Mexico State

Marathon

W. Lynch

Sun

A. Christmas

Cum Prod MBO | Cum Prod MMCP
Current Prod | Current Prod
BOPD | MCFPD

29 • 34 | 291
1 | 3

27 • 25 | 314
0 | 12

24 • 61 | 1363
27 | 139

25 • 65 | 1904
1 | 38

34 • 6 | 697
1 | 6

40 • 8 | 289
1 | 3

19 • 0 | 52
0 | 169

17 • 1 | 813
0 | 134

15 • 3 | 1409
0 | 357

Lou Worthan No. 20

Eaves

Amerada Hess

Worthan

Mobil

Elliot B-12-2

Elliot B-12

Sohio

A.B. Baker

T. Long

S.E. Long

L. Hinton

Submit 2 copies to Appropriate District Office.
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

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

GAS - OIL RATIO TEST

Operator		Pool		County		Lea									
Marathon Oil Company		Wantz Granite Wash													
Address		TYPE OF TEST - (X)		Completion		Special									
P. O. Box 552 Midland, Texas 79702		SCHEDULED ☒ X													
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU.FT/BBL.		
		U	S	T						R	WATER BBL.S.	GRAV. OIL		OIL BBL.S.	GAS M.C.F.
J. L. Muncy	5	P	24	22	37	4-11-89	P	30	16	24	0	--	10	26	2600
	7	G	24	22	37	4-12-89	F	80	55	24	0	41	52	100	1923
Mark Owen	7	N	35	21	37	4-11-89	P	30	4	24	0	40	4	23	5750
	8	M	35	21	37	4-10-89	P	35	11	24	0	40	6	23	3833
Lou Worthan	13	C	11	22	37	4-18-89	F	320	GAS	24	0	--	4	217	54250
	20	H	11	22	37	4-19-89	P	20	17	24	1	38	4	35	8750

Instructions:

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 casing pressure in lieu of tubing pressure for any well producing through casing.

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

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

Signature

J. R. Jenkins - Hobbs Production Sup't.

Printed name and title

5-2-89

Date

(915) 682-1626

Telephone No.

Submit 2 copies to Appropriate District Office.

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

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

Form C-116
Revised 1/1/89

ATTACHMENT NO. 5

GAS - OIL RATIO TEST

Operator Marathon Oil Company		Pool Wantz Abo		County Lea												
Address P. O. Box 552, Midland, TX 79702		TYPE OF TEST - (X)		Completion ☒ Special ☒												
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU.FT/BBL.			
		U	S	T						R	WATER BBL.S.	GRAV. OIL		OIL BBL.S.	GAS M.C.F.	
Lou Worthan	20	F	11	22	37	8-25-88	F	24/64	--	*	24	0	--	0	550	--
*Please reinstate allowable.																

Instructions:

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 casing pressure in lieu of tubing pressure for any well producing through casing.

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

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

Signature

J. R. Jenkins Hobbs Prod. Supt.

Printed name and title

1-17-89

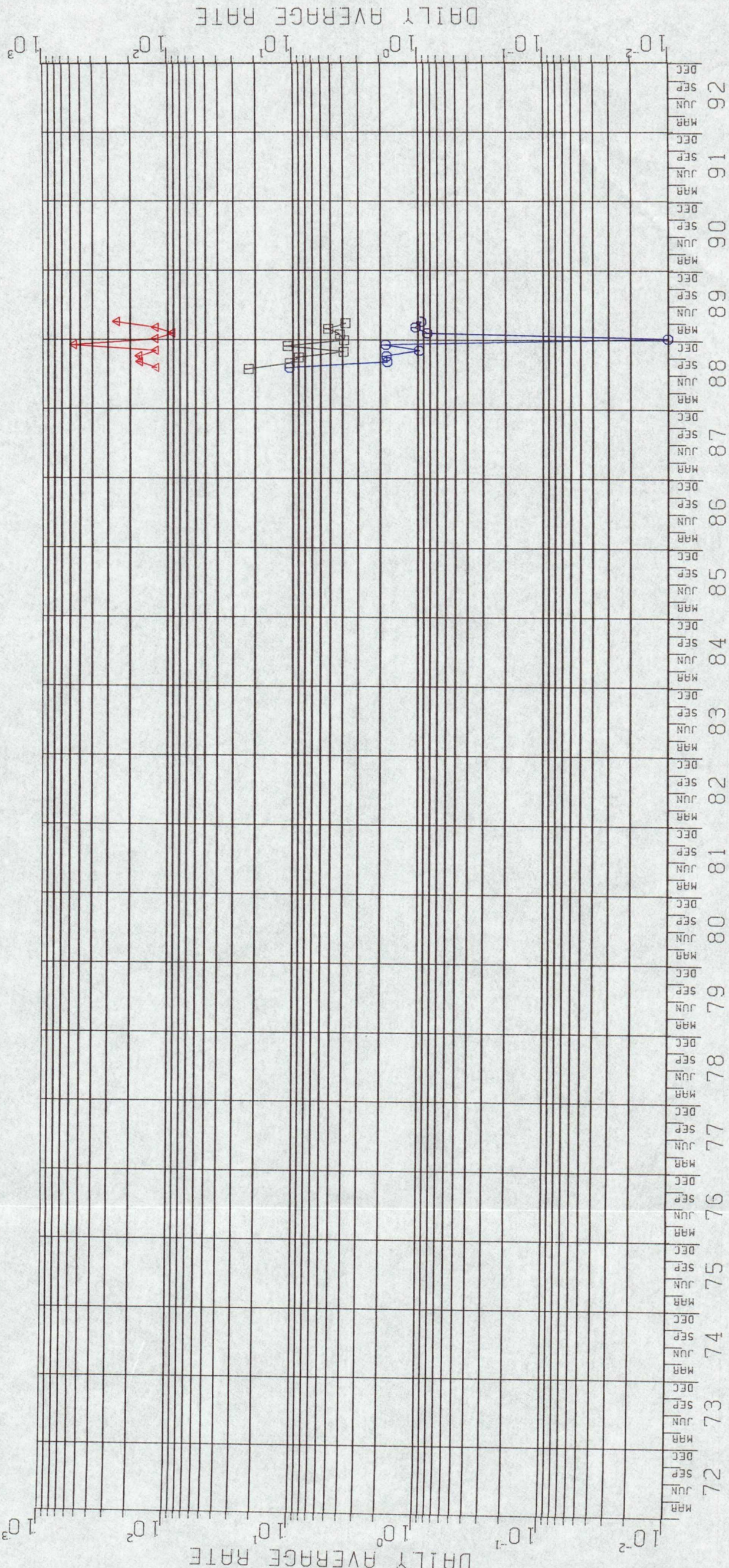
Date

(915) 682-1626

Telephone No.

ATTACHMENT NO. 6

FIELD - WANTZ
RESERVOIR - GRANITE WASH
LEASE - WORTHAN, LOU - GRANITE WASH & PADDOCK
WELL - LOU WORTHAN-NO. 20



Q+C CALENDAR DLY AVG
GAS CALENDAR DLY AVG
WTR CALENDAR DLY AVG

COMPANY		LEASE NAME		WELL #		EQUIPMENT		DATE MO/DAY/YR		PAGE	
MARATHON OIL CO		LOU WORTHAM		20		PORT-A-CHECK		6-6-88		1	
FIELD		FORMATION		SEC/TWP/RGE		COUNTY		STATE		REPORT TIME & #	
		Aga				LEA		NM		TANK SIZE	
TEST BY		TYPE TEST		COMPANY REP		METER RUN		TAPS		PROVER	
STEVE RIPLEY		FLOW		RALPH SKINNER		2.067		FLNG		500	
TIME	ELAP	TBG.	CSG.	METER OR	CHOKE	MCFD	TOTAL FLUID	WATER	H2O	OIL	ACCUM
DATE	HR	PRES	PRES	PRES	DIFF	TEMP	TOP	CUT	P/H	P/H	H2O
1000	0	1075		88	74		18/64 1.500	1329	3'0"	118	
1100	1	900		88	80		"	1382	3'0"	118	
1200	2	800		100	82		"	1480	3'0"	118	
1300	3	680		100	77		"	1434	3'0"	118	
1400	4	680		105	72		"	1417	3'1"	119	1
1500	5	600		115	68		20/64 1.500	1434	3'3 1/4"	120	2
1600	6	600		115	78		"	1536	3'1"	121	3
1700	7	550		115	92		21/64	1668	3'1 1/4"	122	4
1800	8	550		115	90		21/64	1650	3'1 1/2"	124	6
1900	9	540		110	75		21/64	1476	3'1 1/4"	126	8
2000	10	540		110	80		21/64	1525	3'2"	127	9
2100	11	540		115	72		21/64	1476	3'2"	127	9
2200	12	530		115	70		21/64	1455	3'2 1/4"	128	10
2300	13	520		115	54		21/64	1278	3'2 1/2"	129	11
2400	14	510		115	64		21/64	1391	3'2 3/4"	131	13
6/7	15	510		115	71		21/64	1467	3'3"	132	14
0100	16	500		115	72		21/64	1475	3'3 1/4"	133	15
0200	17	500		115	48		21/64	1205	3'3 1/2"	134	16

COMPANY		LEASE NAME		WELL#		EQUIPMENT		DATE MO/DAY/YR		PAGE		
MARATHON OIL CO		LOU WORTHAM		20		PORT-A-CHECK		6/7/88		2		
FIELD		FORMATION		SEC/TWP/RGE		COUNTY		STATE		REPORT TIME & #		
						LEA		NM				
TEST BY		TYPE TEST		COMPANY REP		METER RUN		TAPS		TANK SIZE		
STEVE & GARY		FLOW		RALPH SKINNER		2.067		FLNG		500		
TIME	ELAP	TBG.	CSG.	METER OR	PROVER	CHOKE	MCFD	TOTAL FLUID		WATER		
DATE	HR	PRES	PRES	PRES	DIFF	TEMP	ORIF	TOP	BBLs	CUT	BBLs	
	0400	18	500				21/64	1324	3'3 1/2"	134		16
				115	58		1.500					
	0500	19	500				21/64	1320	3'3 3/4"	135	1	17
				110	60							
	0600	20	490				24/64	1298	3'3 3/4"	135	-	17
				110	58							
	0700	21	460				24/64	1342	3'4"	136	1	18
				110	62							
	0800	22	460				24/64	1364	3'4 1/4"	137	1	19
				110	64		1.500					
	0900	23	450					1364	3'4 1/2"	138	1	20
				110	64							
	1000	24	450				24/64	1476	3'4 3/4"	139	1	21
				110	75							
	1100	25	450				24/64	1599	3'5"	141	2	23
				110	88							
	1200	26	440				24/64	1496	3'5 1/4"	142	1	24
				110	77		1.500					
	1300	27	440					1562	3'5 1/4"	142	0	24
				110	84							
	1400	28	440				24/64	1456	3'5 1/2"	143	1	25
				110	73							
	1500	29	440				24/64	1406	3'5 3/4"	144	1	26
				110	68							
	1600	30	430				24/64	1342	3'6"	146	2	28
				110	62		1.500					
	1700	31	425					1168	3'6 1/4"	147	1	29
				110	47							
	1800	32	425				24/64	1241	3'6 1/4"	147	0	29
				110	53							
	1900	33	425				24/64	1181	3'6 1/2"	148	1	TRACE 30
				110	48							
	2000	34	420				24/64	1130	3'6 1/2"	148	0	TRACE 30
				110	44		1.500					
	2100	35	425					1156	3'6 3/4"	149	.5	.5 30
				110	46							

COMPANY		LEASE NAME		WELL#	EQUIPMENT		DATE MO/DAY/YR		PAGE							
MARATHON OIL CO		LOU WORTHAM		20	PORT-A-CHECK		6-7-88 6-8-88		3							
FIELD		FORMATION		SEC/TWP/RGE	COUNTY	STATE	REPORT TIME & #									
TEST BY		TYPE TEST		COMPANY REP	METER RUN	TAPS	PROVER	TANK SIZE								
GARY ENNIS		FLOW		RALPH SKINNER	2.067			500								
TIME DATE	ELAP HR	TBG. PRES	CSG. PRES	W/H TEMP	METER OR PRES	DIFF	PROVER TEMP	CHOKE ORIF	MC/FD	TOTAL FLUID TOP	WATER CUT	B8LS	H2O P/H	OIL P/H	ACCUM H2O	ACCUM OIL
6-7-2200	36	425			110	42		24/64 1.500	1104	3'7"	1"	.5	0	2	.5	32
2300	37	420			110	37		24/64 1.500	1037	3'7 1/4"	1"	.5	0	1	.5	33
2400	38	420			110	45		24/64 1.500	1143	3'7 1/4"	1"	.5	0	0	.5	33
6-8-0100	39	410			110	46		24/64 1.500	1156	3'7 1/2"	1"	.5	0	1	.5	34
0200	40	410			110	47		24/64 1.500	1168	3'7 3/4"	1"	.5	0	1	.5	35
0300	41	410			110	42		24/64 1.500	1104	3'7 3/4"	1"	.5	0	0	.5	35
0400	42	410			110	42		24/64 1.500	1104	3'8"	1"	.5	0	1	.5	36
0500	43	410			110	37		24/64 1.500	1037	3'8"	1"	.5	0	0	.5	36
0600	44	410			110	38		24/64 1.500	1051	3'8"	1"	.5	0	0	.5	36
0700	45	400			110	46		24/64 1.500	1156	3'8 1/4"	1"	.5	0	1	.5	37
0800	46	400			110	50		24/64 1.500	1205	3'8 1/4"	1"	.5	0	0	.5	37
0900	47	400			110	49		24/64 1.500	1193	3'8 1/2"	1 1/2"	1	5	1	1	38
1000	48	400			110	46		24/64 1.500	1156	3'8 1/2"	1 1/2"	1	0	0	1	38
1100	49	400			110	50		24/64 1.500	1205	3'8 3/4"	1 1/2"	1	0	1	1	39
1200	50	400			110	54		24/64 1.500	1252	3'8 3/4"	1 1/2"	1	0	0	1	39
1300	51	390			110	47		24/64 1.500	1168	3'9"	1 3/4"	1.5	5	2	1.5	40
1400	52	390			110	48		24/64 1.500	1181	3'9 1/4"	2"	2	5	0	2	40
1500	53	390			110	50		24/64 1.500	1205	3'9 1/4"	2"	2	0	0	2	40

*** PRESENT COMPLETION

LOU WORTHAN NO. 20

DRINKARD FIELD
SECTION 11, T-22-S, R-37-E
LEA COUNTY, NEW MEXICO

2310' FNL & 1850' FWL
TD-7565', PBTD-7465', KB-3375', GL-3355'
STATUS - WANTZ ABO - SHUT-IN
WANTZ GRANITE WASH - PUMPING

HISTORY - SPUDED ON 3/16/88. WANTZ ABO - ACIDIZED
W/2500 7.5% NEFE HCL. FRAC'D W/40,000 GALS DIESEL
W/42,000# 20/40 SAND. IP - 550 MCFD, 0 BD, 0 BW.
WANTZ GRANITE WASH - ACIDIZED W/4000 GALS 7.5% NEFE
HCL. FRAC'D 2/20,000 GALS. DIESEL W/21# 20/40 SAND.
IP - 17 BOPD, 48 MCFD, 8BWP.

TUBING - 2-3/8", 4.7# 8RD J-55 EUE TO 7058'.
2-3/8" MODEL "L" SLIDING SLEEVE (1.875" ID).
3 JTS 2-3/8" TUBING. "XL" DN/OFF TOOL (1.812" F PROFILE).
GUIBERSON UNI-6 PKR @ 7161'. 1 JT 2-3/8" TUBING.

RODS - 76 - 7/8" RODS TO 1900', 207 - 3/4" RODS TO
7075', 10 - 7/8" RODS, 2" X 1-1/4" RODS X 16' X 20'
RHBC PUMP. 6' GAS ANCHOR.

8-5/8"
@ 1208'
8-5/8", 24#/FT. K-55,
ST & C TO 1208'. CMT'D
V/325 SX CLASS 'C'.
CIRC'D TO PIT.

2-3/8" SLIDING SLEEVE
1.875" ID. @ 7061'.

2-3/8" XL DN/OFF TOOL
1.812" ID. @ 7155'.

GUIBERSON UNI-6 PACKER
@ 7161'.

WANTZ ABO 2-JSPF, 18 HOLES
F/7066' - 7114'

WANTZ GRANITE WASH 2-JSPF, 44 HOLES
F/7193' - 7425'

PBTD - 7465'

TD - 7565'

5-1/2"
@ 7558'
5-1/2", 15.5#/FT. K-55, LT & C TO 7558',
CMT'D W/1200 SX 50/50 POZ-MIX W/5# SALT,
1/4# FLOSEAL. DV TOOL @ 4024'.
SECOND STAGE W/1400 SX LITE & 100 SX
PREMIUM. CIRC'D 125 SX TO SURFACE.

PREPARED BY: DONALD G. PRICE, JR.
5/24/89

PROPOSED COMPLETION

LOU WORTHAN NO. 20

DRINKARD FIELD
SECTION 11, T-22-S, R-37-E
LEA COUNTY, NEW MEXICO

2310' FNL & 1850' FWL
TD-7565', PBTD-7465', KB-3375', GL-3355'

STATUS - COMINGLED PRODUCTION FROM WANTZ ABO
AND WANTZ GRANITE WASH. GAS FLOW UP
ANNULUS AND OIL PRODUCTION BY PUMP.

HISTORY - SPUDDED ON 3/16/88. WANTZ ABO - ACIDIZED
W/2500 7.5% NEFE HCL. FRAC'D W/40,000 GALS DIESEL
W/42,000# 20/40 SAND. IP - 550 MCFD, 0 BD, 0 BW.
WANTZ GRANITE WASH - ACIDIZED W/4000 GALS 7.5% NEFE
HCL. FRAC'D 2/20,000 GALS. DIESEL W/21# 20/40 SAND.
IP - 17 BOPD, 48 MCFD, 8BWP.

TUBING - 2-3/8", 4.7# 8RD J-55 EUE TO 7161'.
TUBING HANGER @ 7160'. 1 JT. 2-3/8" TUBING.

RODS - 76 - 7/8" RODS TO 1900', 207 - 3/4" RODS TO
7075', 10 - 7/8" RODS, 2" X 1-1/4" RODS X 16' X 20'
RHBC PUMP. 6' GAS ANCHOR.

WANTZ ABO 2-JSPF, 18 HOLES
F/7066' - 7114'

WANTZ GRANITE WASH 2-JSPF, 44 HOLES
F/7193' - 7425'

PBTD - 7465'

TD - 7565'

TUBING ANCHOR
@ 7160'.

5-1/2"
@ 7558'

5-1/2", 15.5#/FT. K-55, LT & C TO 7558',
CMT'D W/1200 SX 50/50 POZ-MIX W/5# SALT,
1/4# FLOSEAL DV TOOL @ 4024'.
SECOND STAGE W/1400 SX LITE & 100 SX
PREMIUM. CIRC'D 125 SX TO SURFACE.

PREPARED BY: DONALD G. PRICE, JR.
5/24/89

OFFSET OPERATORS

1. Sun Exploration & Production Company
P. O. Box 1861
Midland, Texas 79702-1861
Attn: Production Department - New Mexico
2. Standard Oil Production Company
Continental and Offshore Division
9401 Southwest Freeway, Suite 1200
Houston, Texas 77074
Attn: Production Department - New Mexico
3. Mobil Producing Texas & New Mexico, Inc.
P. O. Box 633
Midland, Texas 79702
Attn: Production Department - New Mexico
4. Amerada Hess Corporation
P. O. Box 2040
Tulsa, Oklahoma 74102
Attn: Production Department - New Mexico
5. Chevron U. S. A., Inc.
P. O. Box 670
Hobbs, New Mexico 88240
Attn: Production Department - New Mexico
6. Cities Service Oil Corporation
P. O. Box 50250
Midland, Texas 79710
7. John H. Hendrix Corporation
223 West Wall, Suite 525
Midland, Texas 79701
Attn: Production Department - New Mexico
8. Exxon Co., U. S. A.
P. O. Box 1600
Midland, Texas 79702
Attn: Production Department - New Mexico



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

6-27-89

GARREY CARRUTHERS
GOVERNOR

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

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

RE: Proposed:

MC _____
DHC X _____
NSL _____
NSP _____
SWD _____
WFX _____
PMX _____

RECEIVED

JUN 30 1989

OIL CONSERVATION DIV.
SANTA FE

Gentlemen:

I have examined the application for the:

Marathon Oil Co. Lou Werthan # 20-F 11-22-37
Operator Lease & Well No. Unit S-T-R

and my recommendations are as follows:

OK

Yours very truly,

Jerry Sexton
Jerry Sexton
Supervisor, District 1

/ed