PNRM 0334356878

C-103 Received 11-17-0 DHC No. Assigned 12-9-03

	Order Number HOB-0063	API Number 30- 025-30285	Operator Marathon	Oil Company	County Lea		
	Order Date	Well Name Lou Worth	an	Number 0 2 0	Locati F 11 2 UL Sec T (+	25 37E	
Pool 1	62700	Wantz Abo		0il % 3 <i>32</i>	Gas % 95%		
Pool 2 Pool 3	62730	Wantz Grani	te Wash	672	5 %		
Pool 4							
	Comments: Wo Wo Su	rk completed ork cancelled of a pplement	effective effective				

	DOWNHOLE COMMINGLE CALCULATIONS:		25-30285
	OPERATOR: Marathan Oil Compan	.Y	08-0063
	PROPERTY NAME: Low Worthan	<i>)</i> 	
	WNULSTR: 20-F, 11-22-37		
62700	SECTION I: Want 2 Abo	ALLOWAI	BLE AMOUNT (122 MCF (00 0
62730	POOL NO. 2 Wantz Granite Wash	187	<u>37∮</u> MCF 2000
	POOL NO. 3		MCF
	POOL NO. 4POOL TO	OTALS <u>374</u>	MCF
.1.	SECTION II:	OLL	Gas
AWAN4000	SECTION II: Wantz Abo	33%	95%
AWAN6000	DPOOL NO. 2 Wantz Granite Wash	67%	51.
	POOL NO. 3		
	POOL NO. 4		
·	OIL SECTION III: 187 + 671, = 279,11 (280).	GAS	
	SECTION IV: 280 \ 337, = 92,40 (92) 280 \ 677, = 187,60 (188)		

N 4EXICO OIL CONSERVATION COMMIS ... WELL LOCATION AND ACREAGE DEDICATION PLAT

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

JOHN W

676

All distances must be from the outer houndaries of the Section Lou Rorthan 20 Marathon Oil Company Section Fownship Hange nit Letter conty 37 Fast 22 South Lea Actual Funtage Location of Well: 2310 2000 nor th west line and feet from the feet from the Greend Level Flev Producing Formation Pront Dell sted Acres 3355.3 Wantz-Abo 40 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 rovalty). 3 If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consult. dated by communitization, unitization, force-pooling, etc? If answer is "yes." type of consolidation ___ If unswer is "no," list the owners and tract descriptions which have actually been consolidated. (I se reverse side of No allowable will be assigned to the well until all interests have been consolidated (by communitization, unification, 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 T.L. Rivers Dist. Drlg Superintendent Marathon Oil Company 3-2-88 shown on this plat was plotted from field ies of actual surveys made by me ar under my supervision, and that the same knowledge and belief. Date Surveyed February 25, 1988 Registered Professional Engineer or Land Surveyor

N MEXICO OIL CONSERVATION COMMIS ... WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Superceder C-128 Ellective 1-1 65

		All distances mus	he from the out	er hounderies of	the Section			
perdor Marathon	Oil Compa	n v.	1 7000	u Porthan			#e11 ' Ji	20
nit Letter Section		Township	Homo	•	' cunty			
	11	22 South	3	7 Fast		Le	d	
2310	11	orth				west		
(FF()	from the Producing Form	line	Proof		et Imm the		Define Acress	
3355.3	Granite	Wash		Grai	nite Wash	1	40	A 100
1 Outline the acre	age dedicat	ed to the subjec	t well by co	lored pencil o	or hachure	marks on th	e plat below.	
2 If more than on interest and roys		dedicated to the	well, outline	each and ide	entily the o	wnership th	rereof (both as i	o workinj
3 If more than one dated by commun	ultīzātion, u	nitization, force-p	ooling. etc?			nterests of	all owners bee	n Consoli
[Yes []	No II an	awer is "yes!" ty	pe of consoli	dation	· · · · · · · · · · · · · · · · · · ·			
. If unswer is "no this form if nece:		wners and tract	descriptions	which have a	ctually bee	n consobda	uted (Use rever	se side o
No allowable will forced-pooling, or sion.	l be assigne							
	<u> </u>				 -		CERTIFICATION	
·				1			CEN /// ICA HON	
1		1		1		I hereby c	ertify that the infor	mation con
1				1		toined hei	ein is true and com	plete to th
				1		best of my	knowledge and bel	ief
•	23.0			1		Tem	1 S. Lucie	
	لاستعمآ	14111		 	:	lime		
	5	````		1		T.L. R	lvers	
Š	,	}				1	orla Superin	tandan
1	arathon #11	Exxon # 68		1		Company	<u>)rlg Superin</u>	<u>centien</u>
Δ.	337	415'		1		Maratho	on Oil Compa	ny
200Q	165'-1	1		1		Date		
`	r }	\$		l		3-2-88		
	 		PROFES AND S	1511		shown on notes of under my is true o	certify that the within plat was platte actual surveys mad supervision, and thind correct to the cand belief	ed from field fe by me do the sam
	, 		NOHN YOUN NO	A LEES		ļ	rry 25,1988 Professional Englis	
	1			1		San	211 1111	,
	7				1	Certificoff	HO JOHN W WES.	r. 6

Submit 3 Copies To Appropriate District Office	·= ·	f New Me			Form C	
District I	Energy, Minerals	s and Natu	ıral Resources	WELL API NO.	Revised June 10	0, 2003
1625 N. French Dr., Hobbs, NM 88240 District II	or colians	TILMION		30-025-30285		
1301 W. Grand Ave., Artesia, NM 88210	OIL CONSER			5. Indicate Type	of Lease	· ·
District III 1000 Rio Brazos Rd., Aztec, NM 87410	1220 Sout			STATE	FEE 🔀	
District IV	Santa F	Fe, NM 8'	7505	6. State Oil & Ga	is Lease No.	
1220 S. St. Francis Dr., Santa Fe, NM 87505						
re-	ES AND REPORTS C	ON WELLS	}	7. Lease Name or	r Unit Agreement N	ame
(DO NOT USE THIS FORM FOR PROPOSA				Lou Worthan		
DIFFERENT RESERVOIR. USE "APPLICA PROPOSALS.)	HON FOR PERMIT (FOI	KM C-101) F	JR SUCH	0 777 11 37 1		
1. Type of Well:				8. Well Number #20		
Oil Well 🔲 Gas Well 💢 O	ther			#20		
2. Name of Operator				9. OGRID Numb	er	
Marathon Oil Company						
3. Address of Operator				10. Pool name or		_,
P.O. Box 552 Midland, TX 79702 4. Well Location		***************************************		Wantz (Abo) & W	Vantz (Granite Wash	1)
4. Well Location						
Unit LetterF::	2,310'feet from the	North_	line and _2,00	00'feet from the	eWestline	,
						1
Section 11	Township	22s	Range 37E	NMPM L	ea County	
	11. Elevation (Show w	vhether DR	, RKB, RT, GR, etc.)		
A STATE OF THE PARTY OF THE PAR	3,355' - GL	ndiasta N	lotume of Maties	Donort on Other	Doto	
NOTICE OF INT	propriate Box to I	ndicate iv	1	-		
	ENTION TO: PLUG AND ABANDOI	м П	REMEDIAL WOR	SEQUENT RE	ALTERING CASIN	cП
PERFORM NEMEDIAL WORK	FEOG AND ADANDO	N L	TILIVILDIAL WON		ALTENING CASIN	αЦ
TEMPORARILY ABANDON	CHANGE PLANS		COMMENCE DR	ILLING OPNS.□	PLUG AND	
LILL OD ALTED CARINO		₩.	CACINIC TEST A		ABANDONMENT	
	MULTIPLE COMPLETION	×	CASING TEST AI	ND 🗆		
	JOHN ELTITION	_				
OTHER:			OTHER:			
13. Describe proposed or complet						
of starting any proposed work or recompletion.). SEE RULE 1103.	For Multip	le Completions: At	tach wellbore diagra	am of proposed com	pletion
or recompletion.						
Marathon Oil Company reque	sts authorization to do	ownhole co	mmingle the Wantz	(Abo) and Wantz (Granite Wash) pool	s.
DHC 732 was granted on this	well for the reference	d zones in	1989. A recomplet	tion to an upper Abo	zone in 1998, temp	oorarily
abandoned a lower Abo zone	and the Granite Wash.	. At this tir	ne, Marathon intend	ds to remove a bridg	e plug so that all zo;	nes can
be produced by rod pump					18192022	
Please find attached a detailed	procedure of the plan	med work.	a wellbore diagram	and production ple	tofor both zones	2
	procedure of the print		a wonooro arabram	, und production pro	Stor Com Lones	122/
				0111273 Zq.	3003	123
				12	MIN ED	252627
				12	Kriobbs	27
ı				\2	· , HOCO	/&/
DHC Order/	V- HAD	9012		, , ,		£8)
DAC OTWELL	10, 110 B-1	1063			Conser - B	57
I hereby certify that the information abo	ove is true and comple	ete to the be	est of my knowledg	e and belief.	- 111	
DONDI	A.					
SIGNATURE (SCI)	<u> </u>	_TITLE	Engineer	DATE_	11/12/03	
pe or print name Brent Lockhart	E mail address. Dr	N ookhorta	Morathan Oil as	Talanhama No. 42	2 607 0204	
	E-mail address: BD					
This space for State use)	Į.	JRIGINAL	SIGNILLIA	(713)296		.
APPPROVED BY		TIME	F. KAU14	•	DATE DEC	1 0 2003
Conditions of approval, if any:	þ	FTROLEU	IM ENGINEFY		—	

Lou Worthan Well No. 20 **DHC Attachment**

- Pre-approved pool status was established by Division Order R-11363 i)
- Wantz-Abo (62700) & Wantz-Granite Wash (62730) ii)
- iii)
- Wantz-Abo (6,537' 7,114') & Wantz-Granite Wash (7,193' 7,425')
 Wantz-Abo (95% gas & 33% oil) & Wantz-Granite Wash (5% gas & 67% iv) oil). Supported from tests prior to temporary abandonment.

 The proposed commingling will not reduce the value of the total remaining
- v) production
- The ownership and percentages are identical for the zones vi)

DHC Procedure Lou Worthan Well No. 20 2,310' FNL & 1,850' FWL, Unit F Section 11, T-22-S, R-37-E Lea County, New Mexico

Date: 11/12/2003

WBS #s:

AFE Cost: \$15,000 **WI**: 100.0% **NRI**: 87.5%

Elevation: GL: 3,354' KB: 3,369' PBTD: 7,058'(RBP) TD: 7,565'

Purpose: Downhole commingle Lower ABO and Granite Wash w/ Upper Abo

Surface Casing: 8-5/8", 24#, K-55, LTC casing set at 1,208'. Cemented with 325 sks. Circulated cement to

surface.

Production Casing: 5-1/2", 15.5# casing set at 7,558'. DV tool at 4,024'

Tubing: 212 jts 2-3/8" J-55 tbg, 5-1/2" TAC, 17 jts 2-3/8" J-55 tbg, 1 jt ICC tbg, SN, 16' mud anchor.

Rods & Pump: 77 – 7/8" Norris 97, $192 - \frac{3}{4}$ " Norris 97 w/2" X 1-1/2" X 20' pump w/ 6' gas anchor

Current Perforations: Upper Abo 6,537-44, 49-54, 56-58,

6,600-04, 14-22, 48-52, 66-71, 76-78, 88-96,

6,700-03, 30-34, 38-44, 48-52, 54-56, 58-68, 72-76, 91-94, 96-00

6,802-05, 24-32, 46-50, 56-64, 68-72, 80-84, 86-90

6,944-46, 52-56, 64-71, 76-84, 90-92

7,020-22, 28-31 (2 spf)

TA Perforations (RBP): Lower Abo 7,066, 76, 81, 89, 95, 99, 7,104, 09, 14 (2 spf)

Granite Wash 7,193, 7,232, 43, 72, 79, 86, 93

7,300, 10, 30, 34, 41 47, 56, 61, 65, 72, 78, 86

7,400, 18, 25 (2 spf)

Special Considerations: Use limited amounts of 2% KCL for kill fluid.

Verify current tbg & rod tally w/Hobbs office prior to RU. Lowering tbg will require additional ~ 400' of tbg & rods

Procedure:

1. Inspect surface location and improve if necessary. Test safety anchors to 22,500#.

2. SD pumping unit the evening prior to RU. Flow well to production facilities overnight.

3. MIRU WOR. Kill well w/limited amounts of 2% KCl.

4. Disconnect surface equipment. Hang off pumping unit. LD polish rod. POOH w/rods & pump, hot water if necessary

5. ND wellhead. NU 3M BOPE. Release TAC and POOH w/2-3/8" tbg string. Visually inspect and replace as necessary.

6. TIH w/retrieving head for Watson TS RBP, bulldog bailer on 2-3/8" tbg. Work bailer to cleanout fill to RBP at 7,058'. Latch onto RBP and POOH. TIH w/ 2-3/8" tbg and tag PBTD (7,456'). POOHw/same.

7. TIH w/mud anchor, SN, 2-3/8" tbg, 5-1/2" TAC on 2-3/8" production tbg. Space out tubing w/SN ~7,400' and TAC at 6,450'.

1. CO 41

WE Spe Jan

8. ND BOPE and NU wellhead. TIH w/pump & rods. Space out pump. Hang well on. Connect surface equipment. RD WOR and MOL. Start pumping well to production facilities.

XC: R. S. Bose W. H. Arnett

11/12/2003

B. D. Lockhart Well File

M:\New Mexico\Drinkard\Worthan\Lou Worthan 20 DHC\Procedure.doc \(\frac{1}{2} \in \frac{1}{2} \frac{1}{2} \in \frac{1}{2} \]