State of New Mexico ergy, Minerals & Natural Resources Department

PO Box 1980, Hobbs, NM 88241-1980 District II

PO Drawer DD, Artesia, NM 88211-0719 District III

OIL CONSERVATION DIVISION 2040 South Pacheco

Form C-104 Revised October 18, 1994 Instructions on back Submit to Appropriate District Office 5 Copies

1000 Rio Brazos Rd District IV				Santa	re, NM 8	57505				A NATO	WOED DEDON
2040 South Pacheco											NDED REPORT
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UL or lot no.	Section	Township		Lot. Idn	Feet from the	North/S	South Line	Feet from the	East/We	st line	County
12 Lse Code	13 Produci	ng Method C	ode 14 Gas C	onnection Date	15 C-129	Permit Numl	ber 1	6 C-129 Effective	Date	17 C-1	29 Expiration Date
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IV. Produc	red Wat	er							········		
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V. Well C	ompleti										
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<sup>47</sup> I hereby certif	y that the rul	10. les of the Oil	Conservation I	Oivision have be	en I	278					Pumping
complied with and the best of my kno	that the inf	ormation giv	en above is true	and complete t	to		OIL CO	NSERVATION	N DIVIS	ION	
Signature:	00011	Cook	)		Appro	ved by: OR	IGINAL S	IGNED BY CHE	RIS WILL	IAMS	
Printed name:	ery.			• • • • • • • • • • • • • • • • • • • •	Title:		DIST	RICT I SUPER	VISOR	<del></del>	
Kelly Cook											
Records Pro	cessor				Approv	val Date: SEP	24 199	<u> </u>			
Date: 8/17/	9		Phone: 393	-7106				<del> </del>	····	· · · · · · · · · · · · · · · · · · ·	
<sup>47</sup> If this is a cha	nge of oper	ator fill in the			the previous o	perator					

Printed Name

Title

Previous Operator Signature

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 Office		
DISTRICT I P.O. Box 1980, Hobbs NM 88241-1980 OIL CONSERVA 2040 Pag		WELL API NO.
DISTRICT II Santa Fe,		30-025-34204
P.O. Drawer DD, Artesia, NM 88210	NW 87303	5. Indicate Type of Lease  STATE FEE X
DISTRICT III 000 Rio Brazos Rd., Aztec, NM 87410		6. State Oil & Gas Lease No.
SUNDRY NOTICES AND REPORTS ON		
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEE DIFFERENT RESERVOIR. USE "APPLICATION FO (FORM C-101) FOR SUCH PROPOSALS	R PERMIT"	7. Lease Name or Unit Agreement Name
. Type of Well:		Bertha Barber PC No.957
OIL GAS OTHER		
Name of Operator		8. Well No.
arathon 011 Company		17
. Address of Operator .O. Box 2490 Hobbs. NM 88240		9. Pool name or Wildcat Monument: Tubb
. Well Location		
Unit Letter F : 2230 Feet From The NO	rth Line and 18	Feet From The West Line
Section 5 Township 20-S	Range 37-E	NMPM Lea County
	whether DF, RKB, RT, GR, et	
	GL 3559' KB 3572'	XIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
Check Appropriate Box to Indic	1	- 1
NOTICE OF INTENTION TO:	SUI	BSEQUENT REPORT OF:
RFORM REMEDIAL WORK PLUG AND ABANDON	REMEDIAL WORK	ALTERING CASING
	<b>┌</b> │	
MPORARILY ABANDON L.J. CHANGE PLANS		GOPNS. L. PLUG AND ABANDONMENT L
LL OR ALTER CASING	CASING TEST AND CI	EMENT JOB L
HER:	OTHER: Abandon A	Abo - RC Monument Tubb
2. Describe Proposed or Completed Operations (Clearly state all pertine	ent details, and give pertinent da	ates, including estimated date of starting any proposed
work) SEE RULE 1103.	g- 1	proposed
7/00 MIDII au l'Idea made DOON m/amma 9 made N	D	2011 - 415 -
7/20 MIRU pulling unit. POOH w/pump & rods. N 7/21 RIH set CIBP at 7095'. Dump 35' cmt on t		
pkr, PUH to 6458'. Spot 500 gals 15% aci		7025 . Test CIBP to 2000 ps1, OR. Re
7/22 Perf 6443-52' w/4 SPF, 120 deg phas, 36	•	rotesting to 8000 psi. Set pkr at
6363". Acidize w/1500 gals 15% acid w/70	BS. Swab.	•
7/24 Sand frac 6443-52 w/34,200 gals 25# Cro		luid & 81,000# 16/30 sand. Flush
w/1536 gals of 25# Linear gel. Flow back	well.	
7/27 RIH, tag sand at 7025'. Swab.	a ND DOD	
7/29 RIH, rel pkr, POOH. RIH w/2 3/8" prod tb 7/30 RIH w/pump & rods. Load & test, OK. RD p		
TAC at 6276'	arring unit.	
SN at 6562' End of tbg 6615'		
	- <u> </u>	
hereby certify that the information above is true and complete to the best of my kn	owledge and belief.	
GNATURE SCILLY COL	TITLE Records Proces	sor DATE 8/17/99
YPE OR PRINT NAME Kelly Cook		TELEPHONE NO. 393-7106
OURIS WILLIAMS	*	
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DISTRICT		
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PPROVED BY ONDITIONS OF APPROVAL, IF ANY:	TITLE	DATEDATE
PPROVED BY ONDITIONS OF APPROVAL, IF ANY:		DATE
		· · · · · · · · · · · · · · · · · · ·

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Submit to Appropriate District Office State Lease - 6 copies Fee Lease - 5 copies DISTRICT I

## State of New Mexico Energy, Minerals and Natural Resources Department

Form C-105 Revised 1-1-89

Fee Lease - 5 copies									_					IDEA L I	
DISTRICT I	- N/N	4 00240	OII	CONS	ERVA	TION	l DI	VICIA	) IAC	WELL API					
P.O. Box 1980, Hobb	S, 14N	1 88240	OIL	CONS	2040 Pach			AISIC		30-025 5. Indicate					
P.O. Drawer DD, Art	esia, l	NM 88210			Santa Fe,					J. Indicate	тур		ATE [	FE	E <b>X</b>
DISTRICT III 1000 Rio Brazos Rd.,	Aztec	NM 87410								6. State Oil	& (	Gas Lease I	No.		
		LETION OF	REC	OMPLETI	ON REPO	RT AN	DLO								
la. Type of Well: OIL WELL				·	· · · · · · · · · · · · · · · · · · ·					7. Lease N	ame	or Unit Ag	greement l	//////////////////////////////////////	
_		GAS WELI	-LJ	DRY [_]	OTHER _					Bertha	Bai	rber	PC N	lo.957	
b. Type of Completi  NEW WOR  WELL OVE	K R	DEEPEN	PLUC BACI	? [X]	DIFF RESVR (	OTHER R	lC								
2. Name of Operator										8. Well No	·.				
Marathon 011 C 3. Address of Operator	ompa	any								17 9. Pool nar		- W'11 - A			
P.O. Box 2490		obs.NM 8	8240							Monumer					
4. Well Location			<del></del>		<del>1</del>	<del></del>				rioriumei	<u> </u>	1000			
Unit Letter_	F	: <u>2230</u>	Feet	From The	Nor	th	Li	ne and _	1850	) Fee	t Fr	om The _	We	<u>st</u>	_ Line
Section 5				nship 20-S		Range	37-E			IРМ		Lea			unty
10. Date Spudded	1	Date T.D. Rea	ched	i .	ompl.(Ready	to Prod.	)	l		& RKB, R			14. Elev.	Casinghe	ad
7/20/99	<u> </u>	7/22/99	1.55	7/22					3559'	KB 3					
15. Total Depth 7800'		16. Plug F			17. If Multip Many Zor	le Compl nes?	. How	18. r	Intervals Orilled By	Rotary	Too	ls	Cable To	ols	
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Monument: Tubb	)	6443-645	3 <b>'</b>											,	
21. Type Electric and										22. Was	Well	Cored			
23.			CASI	NG REC	ORD (Re	port a	ll str	ings set	in well	<u> </u>			···		
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24.			LIN	ER RECO	RD				25.	TU	JBI	NG REC	ORD		
SIZE		TOP	BO	OTTOM	SACKS CE	EMENT	S	CREEN		SIZE		DEPTH	SET	PACKE	RSET
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26. Perforation reco	ord (i	interval, size,	and nur	nber)	1		27.	ACID,	SHOT, I	RACTU	RE,	CEME	NT, SQI	L EEZE, E	TC.
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0445-0455 4	JFI	30 no ie:	•				1	3-6453				s 15% a			
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28.				· · · · · · · · · · · · · · · · · · ·	PRODU	CTION	1			I 81,00	U_T	6/30_sa	na		
Date First Production				hod (Flowin	ıg, gas lift, p	umping -	Size a	nd type p	ump)			Well Stat	us (Prod.	or Shut-ii	a)
7/22/99		Pum			<u> </u>							Produ	_		
Date of Test 8/15/99	1	lours Tested	C	hoke Size	Prod'n F Test Peri		Oil - Bi	bl. 	Gas - MC	1 .	ater	- <b>B</b> bl.	1	Oil Ratio	
Flow Tubing Press.		24 Casing Pressure		alculated 24-			104 Gas	- MCF	278 Wate	0 r - Bbl.		Oil Grav	2673		
450	- 1	50		our Rate			1		1				,	(0011.)	
29. Disposition of Gas			el, vente	l, etc.)						Test	Wit	nessed By			
So1d															Ì
30. List Attachments															
31. I hereby certify the	hat th	e information	shown o	n both sides	of this form	is true aı	ıd com	plete to th	ne best of 1	ny knowlec	lge a	and belief			
1 1 )		,						-		-	,				1
Signature A.L.	11.	Alliak			Printed Name		Kelly	/ Cook	า	Title Rec	ord	s Proce	SSOr Da	te 8/17	7/99

State of New Mexico
Ener Minerals & Natural Resources Department

District I PO Box 1980, Hobbs, NM 88241-1980 District II PO Drawer DD, Artesia, NM 88211-0719 District III

# OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

Form C-104 Revised October 18, 1994 Instructions on back Submit to Appropriate District Office 5 Copies

1000 Rio Brazos Rd., Aztec, NM 87410 District IV

2040 South Pachec	o, Sant	a Fe, N	M 87505									Ш	AME	NDED REPOR
I.		R	EQUE	ST FO	R A	LLOWA	BLE	AND A	UTHO	RIZAT	TON TO TR	RANSP	ORT	
						Address	_	<del></del>		-		GRID N		
Marathon (	011 0	Compai	ny								:	0140	21	
P.O. Box 2	2490										<sup>3</sup> Re	ason for F		ode
Hobbs, NM										W	RT Eff	7/22/99		00 Bbls
	API Nu							<sup>5</sup> Pool N	ame				6 P	Pool Code
	30-02		204	ļ				Monument						47090
ric								8 Property					9 W	ell Number
II.	6366	face	Locatio	<u> </u>		Ber	tha	Barber	PC N	lo. 957				
UL or lot no.	Sect		Township		re.	Lot. Idn	Feet	from the	North/S	South Line	Feet from the	East/We	1:	
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UL or lot no.	Sect		Township			Lot. Idn	Feet	from the	North/S	South Line	Feet from the	East/We	est line	County
12 Lse Code	13 P <sub>1</sub>	roducin	g Method (	Code 14	Gas C	onnection Date		<sup>5</sup> C-129 Per	rmit Numb	or 1	<sup>6</sup> C-129 Effective	D T	17.0	120 F : .: D
P	'		mping	2000		2/3/98		- C-129 F6	illik Nathu	le!	C-129 Effective	Date	C-1	29 Expiration Date
III. Oil an	d G			ters		., 0, 30								
18 Transporter				ransportei		:	Т	20 POD	)	21 O/G	22 POI	D ULSTR	Locatio	on .
OGRID				and Addr		<del></del>						and Descr		
21778			Company N. Bio			ite #515	**	28194	<b>1</b> 77	0	UL K. Sec.5			
		M1d1	and, TX	7970	1						Battery at v	well no	. 16	location.
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IV. Produ	ced '	Wate	)T*											
<sup>23</sup> POI	)	******					2	POD ULS	TR Locati	on and Des	cription			
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V. Well C	omp	letio												
<sup>25</sup> Spud Da	ite		<sup>26</sup> Re	ady Date		27	TD		28 PE	BTD	<sup>29</sup> Perfora	tions	30	DHC, DC, MC
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					Casing	ac Tubing Size	.e		<sup>33</sup> D	epth Set		34 §	Sacks Co	ement
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VI. Well T			6 Gas Deliv	ery Date		37 Test Dat		38	Test Lengt	ıb.	39 Tbg. Pressure		40	
2	<b></b>		Ous Don.	ory Date		rest Da			rest Lengt	.11	or log. Pressure	, I	٠,٠٠٠	Csg. Pressure
41 Choke Siz	e	-	42 Oil		_	43 Water		_	44 Gas		<sup>45</sup> AOF		46 ~	S
						vi ator			Gas	:	AOF		~ 1	est Method
47 I hereby certif	fy that 1	he rule	s of the Oil	Conserva	tion D	ivision have b	een			OIL CO	NCEDUATION	Direc	1021	
complied with an the best of my kn	d that towledg	ne info ge and l	rmation giv oeljef.	en above	is true	and complete	to	A ===== -			NSERVATION			
Signature:	Seil	11	Cook	<b>,</b>				Approved	by: OBI	GINAL S	IGNED BY CHE	RIS WILL	_IAM	
Printed name: ' Kelly Cook	,	f						Title:		DIST	RICTISOFER	V1001		
Title:				<del></del> -	-			Approval I	Date:		AUG 0	<del>5 1999</del>		
Records Pr		sor		Phone					<del></del>			· · · · · · · · · · · · · · · · · · ·		
8/2/9		c .			393	7106								
47 If this is a ch	ange of	operat	or fill in th	e OGRID	numbe	er and name of	f the pr	evious opera	tor					
		Previo	ous Operato	or Signatu	re			Prin	ted Name	·		Title		Dat.

ate of New Mexico Submit 3 Copies Form C-103 Energy, Minerals and Natural Resources Department Revised 1-1-89 to Appropriate District Office **OIL CONSERVATION DIVISION** DISTRICT I WELL API NO. P.O. Box 1980, Hobbs NM 88241-1980 2040 Pacheco St. 30-025-34204 DISTRICT II Santa Fe, NM 87505 5. Indicate Type of Lease P.O. Drawer DD, Artesia, NM 88210 STATE X FEE 🗌 DISTRICT III 6. State Oil & Gas Lease No. 1000 Rio Brazos Rd., Aztec, NM 87410 SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A 7. Lease Name or Unit Agreement Name DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.) BERTHA BARBER 1. Type of Well: OIL U 8. Well No. 2. Name of Operator Marathon Oil Company 9. Pool name or Wildcat 3. Address of Operator P.O. Box 552, Midland, TX 79702 MONUMENT (TUBB) 4. Well Location 2230 Feet From The NORTH 1850 Feet From The Line and Line 20-S 37-E Township Range County Section 10. Elevation (Show whether DF, RKB, RT, GR, etc.) 3559' GL Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data 11. SUBSEQUENT REPORT OF: **NOTICE OF INTENTION TO:** PLUG AND ABANDON ALTERING CASING PERFORM REMEDIAL WORK REMEDIAL WORK PLUG AND ABANDONMENT COMMENCE DRILLING OPNS. **TEMPORARILY ABANDON CHANGE PLANS** CASING TEST AND CEMENT JOB **PULL OR ALTER CASING** X OTHER: RECOMPLETE 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. PROPOSE TO ABANDON THE ABO FORMATION AND RECOMPLETE IN THE MONUMENT (TUBB).

	the information above is true and complete to the best of my knowledge.		DATE	6/24/99
TYPE OR PRINT NAM	R. J. LONGMIRE		TELEPHONE NO.	915/687-8356
(This space for State	: Use)			
APPROVED BY	ORIGINAL STRATED BIANT JUT WILLIAM DISTERUS I SUN ERVISOR	TITLE	DATE	JUN 28 1999

### **Workover Procedure**

### Bertha Barber #17

South Monument Field 2230' FNL, & 1850' FWL Spot F, Section 5, T20S & R37E API #30-025-34204-0000 Lea County, New Mexico

Date:

February 10, 1999

AFE No.: 303999

AFE Cost:

\$ 120,000

AFE Days:

20

WI:

100.0 %

NRI: 87.50 %

Purpose:

TA Well in Abo and Test Tubb & Blinebry

Well Status:

Currently pumping ± 1 bopd & 20 mcfpd from Abo

Open Perfs:

Upper Abo 7,179' to 7,239' 7,262' to 7,275' 7,289' to 7,302' (344 Shots)

Elevation:

TD: 7,792'

PBTD: 7.699'(WL)

KB: 3.572'

GL: 3.559'

Surface Casing: 11 3/4" 42# H-40 ST&C, set at 500'. Cemented with 271 sx Class "C" + 2.00% CaCl<sub>2</sub>+

0.25 PPS Flocele mixed at 14.8 ppg (363 ft3) Circulated 45 sx to pit (60 ft3)

Intermediate: 8 5/8" 24# & 32#, K-55. Set @ 3,302'. Cemented w/700 sx Halliburton Lite "C" + 0.3% CFR-3 + 0.2% Econolite mixed at 12.4 ppg as lead (1386 ft<sup>3</sup>). Followed by 205 sx Class "C" mixed + 0.2% Econolite mixed at 14.8 ppg as tail. (271 ft<sup>3</sup>). <u>Did not circ</u> TOC is estimated to be 450' based upon displacement pressure.

Production:

5 1/2" set @ 7792' Run as follows: 44 jts 17# L-80 &122 jts 15.5# K-55. Cemented 1st stage with 510 sx 50/50 Pozmix "H" + 2.0% Gel + 0.6% Halad-9 + 3.0% KCl + 5.0% Microbond mixed at 14.2 ppg (678 ft'). Circulated 93 sx off tool (124 ft'). DV/ECP tool at 5,070°. Cemented 2nd stage w/ 300 sx Interfill "C" + 10% Gel + 8# Salt + 0.25# Flocele mixed at 11.9 ppg (744 ft²) as lead. followed by 100 sx 50/50 Pozmix "C" + 0.6% Halad-9 + 3.0% KCl + 5.0% Microbond mixed at 14.2 ppg (Total 133 ft²) as a tail. Did not circulate. Estimated TOC @ 770°

Casing:

Tubing:

Grade & Wt. <u>l.D.</u> Drift I.D. Collapse Burst K-55 15.5# L-80 17.0# 4.950" 4.825" 4.767" 4810 psi 4040 psi 4.892" 7740 psi 6280 psi Size & Wt. 2 3/8" 4.7# Drift 1.D. 1.901" <u>Burst</u> 11,200 psi Collapse 11,780 psi

Wellhead:

6" (900) Series

Tubb:

Abo:

Est Press Info: Blinebry:

5,711' to 5,878' 6,443' to 6,452' 7,179' to 7,302'

Est. BHP =  $\pm 1500$  psi Est. BHP =  $\pm 1500$  psi Est. BHP =  $\pm 2000$  psi

Safety:

Run enough tubing to act as a killstring when necessary, install H2S monitoring alarm

### PROCEDURE:

- Notify Hobbs personnel of impending workover.
- Obtain sample of Tubb lease crude from Bertha Barber #18Y and a sample of Blinebry lease
  crude from the Bertha Barber #10 and submit to Halliburton Lab in Hobbs for acid/oil
  compatibility testing.
- Test safety anchors to 22,500 lbs if necessary.
- 4. MIRU pulling unit
- 5. Kill well as necessary with lease water.
- Disconnect surface equipment. Hang off pumping unit, lay down polish rod. POOH with rod string and IP. Lay down pump.
- ND wellhead. Install 7 1/16", 3M psi hydraulic BOP w/ 2 3/8" pipe rams on top and blind rams on bottom. Install (2) 2 1/16", 3M psi gate valves on BOP outlets below blind rams. Pressure test BOPE as per Midland Drilling Dept's specifications.
- Release TAC @ 7134' and POOH with 253 jts of 2 3/8" tubing. Visually inspect tubing for paraffin, scale and wear. Replace tubing as needed.
- MIRU wireline w/ packoff. RIH with 5 1/2" 17.0# gauge ring to 7,200'. Run a wireline set CIBP w/a GR/CCL. Correlate to GR/DNL dated 1/18/98. Set the CIBP at ±7,100'. PU bailer and spot 35' of cement on the CIBP then SION.
- 10. RIH with packer on 2 3/8" tubing to  $\pm$  7,050'. Test the CIBP to  $\pm$  2,000 psi.
- 11. PU to 6,452' and pickle the tubing string with 250 gallons of 15% Ferchek.
- 12. Spot 250 gallons of 15% Ferchek SC across the Tubb interval. POH with tubing & packer.
- 13. MIRU wireline w/ full lubricator. Test lubricator to 1,000 psi. Perforate the Tubb w/ a 3 3/8" port gun from the top down as follows: 6,443' to 6,452'. All shots w/ 23 gram charges and 4SPF, 90° phasine.
- 14. PU 10K 5 1/2" treating packer and RIH on 2 3/8" 4.7# N-80 to ± 6,400'. Set packer then reverse any remaining spot acid into tubing and close by-pass. Drop SV and test tubing to 5,000 psi, fish SV
- 15. Load backside with 2.00% KCl water and test to 1,000 psi.
- 16. MIRU Halliburton and acidize the Tubb with 1,000 gallons of 15% Ferchek SC @ 4-6 bpm carrying (70) 7/8" 1.3SG ballscalers for diversion. Once the acid has been flushed w/ 1100 gals 2.0% KCl, surge the balls off of the perfs vigorously then wait 30 minutes before flowing/swabbing the load back.
- 17. Swab test the Tubb as necessary. If the interval is productive then pump test Tubb zone for 2-3 months before proceeding. If Tubb is unproductive then squeeze the interval as per Howco recommendation.
- 18. RIH w/5 ½" 17# RBP & packer on tubing to ±6,400'. PU and set packer to test RBP to 2,000 psi. PU to 5,880' and spot 250 gals 15% Ferchek SC across the lower Blinebry. POH w/ tubing & pkr.
- 19. MIRU wireline w/ full lubricator. Test lubricator to 1,000 psi. Run a GR/CCL and correlate with the GR/DNL dated 1/18/98. Perforate the lower Blinebry w/ a 3 3/8" port gun from the top down as follows: 5,873' to 5,878'. All shots w/ 23 gram charges and 4 SPF, 90° phasing.
- 20. PU 10K 5 1/2" 17.0# treating packer and RIH on 2 3/8" 4.7# N-80 to ± 5,825'. Set packer then reverse any remaining spot acid into tubing and close by-pass. Drop SV and test tubing to 5,000 psi, fish SV. Load the backside with KCl water and test to 1000 psi.
- 21. MIRU Halliburton and acidize the lower Blinebry with 1000 gallons of 15% Ferchek SC @ 4-6 bpm. Flush w/ 1000 gals 2.00% KCl water and shut-in for 15 minutes before swabbing/flowing the load back.
- 22. Swab test the lower Blinebry as necessary. If lower Blinebry is unproductive then squeeze the interval as per Howco recommendation and retrieve RBP @ 6400¹, else continue as follows:

- 23. Release the packer and POOH w/ the tbg. PU 5 ½" 17# RBP and 5 ½" 15.5# packer, RIH on 2 3/8" tubing to  $\pm$  5,850'. Set RBP and PU to  $\pm$  5,760 and set packer to test RBP to 2,000 psi. (Casing changes weight from 15.5# to 17.0# @ 5,787')
- Release packer and spot 250 gals of 15% Ferchek SC acid across the upper Blinebry. POOH w/ packer & tubing.
- 25. MIRU wireline w/ full lubricator. Test lubricator to 1,000 psi. Run a GR/CCL and correlate with the GR/DNL dated 1/18/98. Perforate the lower Blinebry w/ a 3 3/8" port gun from the top down as follows: 5711' to 5719', 5721' to 5730', 5735' to 5743', 5750' to 5760'. All shots w/ 23 gram charges and 4 SPF, 90° phasing.
- 26. Configure "PPI" tool such that the packer elements are (2 ft) apart. RIH w/ PPI & CCL on 2 3/8" tubing to ± 5,760'. Set PPI, drop SVand test tubing to 5,000 psi. Fish SV and drop FCV.
- 27. MIRU Halliburton and acidize the upper Blinebry with 1750 gals of 15% Ferchek SC @ ±1 bpm via a PPI tool assembly. Start from the bottom perf at 5760' and pull the tool up the hole in (2 ft) increments. Pump 100 gals of 15% Ferchek SC acid at each of the (17) tool settings.
- 28. Once the acid job is done fish the FCV and SV from the PPI tool and PU to ± 5,700'. Set the tool and start swab testing the upper Blinebry for entry and cut.
- 29. POOH w/ 2 3/8" tubing LD PPI tool.
- 30. RIH w/ 2 3/8" tubing and retrieving tool for RBP's @ 5,850' & 6,400'. POOH with tubing.
- 31. Space out tubing such that the SN is at  $\pm$  6,500' and the 5 1/2" TAC is at  $\pm$  5,650'.
- 32. ND BOPE. Set TAC at ± 2,700' & NU Wellhead.
- 33. Install rod BOPE and RIH with IP pump and rod string. Space out plunger and hang well on.
- 34. RDMO PU.
- 35. Start well pumping on test. Turn over to production.

••	D.K. Barker	R. L. Kliev	
	New Mexico Engineering Supervisor	Senior Drilling Engineer	
		0 0	

Distr:

S. Landon R. Skinner T. Kacir

J. Patterson

G. Muse

K. Cook M. Wiskofske

R. Edgeman

Midland Files

District I

PO Box 1980, Hobbs, NM 88241-1980

istrict 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, herals & 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

X AMENDED REPORT

### WELL LOCATION AND ACREAGE DEDICATION PLAT

1	API Numbe	r		<sup>2</sup> Pool Code		<sup>3</sup> Pool Name						
30	-025-342	04		47090		MONUMENT (TUBB)						
<sup>4</sup> Property	Code				5 Property Na	me		6	Well Number			
636	6				BERTHA BAF	RBER		Ì				
<sup>7</sup> OGRID No. <sup>8</sup> Operator Name									Elevation			
1402	21	Marathon Oil Company 35										
				10	Surface Loca	tion						
UL or lot no.	Section	Township	Range	Lot, Idn	Feet from the	North/South Line	Feet from the	East/West line	County			
F	5	20-S	37-E		2230	NORTH	1850	WEST	LEA			
			11 Bott	om Hole Lo	ocation If Dif	ferent From Surf	ace					
UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County			
12 Dedicated Acre		t or Infill 14 C	Consolidation	Code 15 Ord	der No.		<u> </u>					

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED

OR A NON--STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	OR A NON-BIA	NDARD UNIT HAS B	EEN THI I ROVED BY	THE DIVISION
				17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  W. J. Queen
1850°	2238	R-80 AC. PROPATION UNIT		Signature R. J. LONGMIRE  Printed Name DRILLING SUPERINTENDENT Title 3/31/99 Date
Q		ZLEASE BOUNDARY		18 SURVEYOR CERTIFICATION  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 belief.  Date of Survey
				Signature and Seal of Professional Surveyer:  Certificate Number

District I
PO L'ox 1980, Hobbs, NM 88241-1980
District II
§11 S. 1st Street, Artesia, NM 88210-2834
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV

# State of New Mexico Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505 Form C-101 Revised October 18, 1994 Instructions on back Submit to Appropriate District Office State Lease - 6 Copies Fee Lease - 5 Copies

2040 South Pached	co, Santa Fe,	NM 87	505						Пам	ENDED REPORT
APPLI <i>(</i>	CATION	I FOI	R PERMIT T	O DRI	LL. RE-EN	TER. DEF	EPEN.	PLUGBACI	_	
AITER	211101		Operator name and		EL, IES EI	, 121, 221	22 221 19	120 021101		OGRID Number
Marathon Oi	l Company		operator manie and							14001
P.O. Box 552		,								14021 3 API Number
Midland, TX									30-0	25-34204
	perty Code				5	Property Name			1300	6 Well No.
	6366				BE	RTHA BARBER	<u> </u>			17
					<sup>7</sup> Surface L					
UL or lot no.	Section	Towns	ship Range	Lot. Idn	Feet from th	ne North/So	uth Line	Feet from the	East/West l	ine County
F	5	2	0S 37E	<u> </u>	2230		RTH	1850	WEST	LEA
			<sup>8</sup> Proposed	Bottom 1	Hole Location	on If Differe	ent Fror	n Surface		
UL or lot no.	Section	Town	ship Range	Lot. Idn	Feet from the	he North/So	outh Line	Feet from the	East/West I	line County
		<u> </u>						<u> </u>		<u></u>
		9 Prop	oosed Pool 1					10 Proposed F	Pool 2	
	MON	<u>ument</u>	( TUBB)							
11 Work T	vne Code		12 Well Type C	ode	13 Cable/	Rotary	14 Le:	ase Type Code	15 Gro	und Level Elevation
·· WOIK I		1		ouc		·			0.0	
16 14.	P		0 17 Proposed De	nth	W/ 18 Form		19	P Contractor	- 2	3559 '
16 Mu	шрие		•	:pui		•	.,		_	•
······	NO		6500'		TU			KEY		4/5/99
				21 Propo	sed Casing	and Cement	t Progra	ım		
Hole S	ize		Casing Size	Casing	weight/foot	Setting De	pth	Sacks of Cem	ent	Estimated TOC
*14 3		-	11 3/4"		42	500		271		CIRC'D 45 SX
*11			8 5/8"	T.	4. 32	3302		905		450'
*7 7/	<u>′8"</u>	+	5 1/2"	17	. 15.5	7792		910		770'
	-	+			· · · · · · · · · · · · · · · · · · ·					<del></del>
Describe the blow	wout prevent	ion prog	this application is to ram, if any. Use add	litional shee	ets if necessary	MENT TUBB.				ew productive zone.
*CASING I	N PLACE					Pernit Da	Expire La Unión	os i You i'c Plug	om Approduction Approved Back	ovas f
of my knowledge		ormation	given above is true	and comple	ete to the best	Approved by:	<del>- Onic</del>	CONSERVATIONELSIGNE		'ISION
5	$\overline{}$	IOMED"			···	Title:		9		
Trial .		IGMIRE				<b> </b>			Evniration De	to:
Title: [	ORILLING	<b>SUPER</b>	INTENDENT			Approval Date		0.00	Expiration Dat	.c.

DISTRICT I P.O. Bes 1980, Hobbs, NY 86341-1980

### State of New Mexico

Energy, Minerale and Natural Resources Department

Form C-102
Revised February 10, 1994
Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT II P.O. Brewer BD, Artonia, NM 86211-0719

DISTRICT III 1000 Rio Brasos Rd., Astec, NM 87410

## OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

#### DISTRICT IV P.O. Box 2008, Santa Fe, NM 27504-2068

### WELL LOCATION AND ACREAGE DEDICATION PLAT

30-0	Number 25 —	34204		Pool Code		Monument	Pool Name (Tubb)			
Property (	Code	1			Well Number					
OGRID No. Operator Name 14021 MARATHON OIL COMPANY								Elevation 3559		
					Surface Loc	ation				
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
F	5	20 S	37 E		2230	NORTH	1850	WEST	LEA	
			Bottom	Hole Lo	cation If Diffe	erent From Sur	face			
UL or lot No.	Section	Township	Rango	Lot Idn	Feet from the	North/South line	Fost from the	East/West line	County	
Dedicated Acres	Joint o	or Infill Co	nsolidation (	Code Or	der No.				1	

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

Submit 3 Copies

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

# State of New Mexico

Form C-103

District Office	Energy, Minerals and N	atural R	esources Department		Revised 1-1-89
DISTRICT I P.O. Box 1980, Hobbs NM 88241-198	OIL CONSERV	ATIC Pacheco		WELL API NO.	
DISTRICT II	Santa Fe.				-025-34204
P.O. Drawer DD, Artesia, NM 88210	,			5. Indicate Type	of Lease STATE X FEE
DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 8741	10			6. State Oil & Ga	
SUNDRY NO	OTICES AND REPORTS O	N WEL	LS		
(DO NOT USE THIS FORM FOR P	PROPOSALS TO DRILL OR TO D	DEEPEN (	OR PLUG BACK TO A	7. Lease Name of	or Unit Agreement Name
(FORM	SERVOIR. USE "APPLICATION I I C-101) FOR SUCH PROPOSAI	FOR PER LS.)	MII	BERTHA BARBI	<u> </u>
1. Type of Well:			<u></u>		
OIL GAS WELL WELL	OTHER				
2. Name of Operator				8. Well No.	
larathon Oil Company  3. Address of Operator	·-·		· · · · · · · · · · · · · · · · · · ·	9. Pool name or	11/11
P.O. Box 552 Midland, TX	79702				UBB, ABO, PADDOCK)
4. Well Location					
Unit Letter F : 22	230 Feet From The	NORTH	Line and 185	50 Feet Fro	om The WEST
Section 5	Township 20-S	D.	inge 37-E	NMPM	LEA Cou
90000			er DF, RKB, RT, GR, etc		LEA Cou
			3559' G.L.		
	Appropriate Box to Inc	dicate	Nature of Notice,	Report, or	Other Data
NOTICE OF	INTENTION TO:		SUE	SEQUENT	T REPORT OF:
ERFORM REMEDIAL WORK	PLUG AND ABANDON	П	REMEDIAL WORK		ALTERING CASING
	1				
EMPORARILY ABANDON	CHANGE PLANS	Ш	COMMENCE DRILLING	_	PLUG AND ABANDONMENT
ULL OR ALTER CASING			CASING TEST AND CE	EMENT JOB X	
THER:			OTHER:		
			<u>.                                    </u>		
<ol> <li>Describe Proposed or Completed ( work) SEE RULE 1103.</li> </ol>	Operations (Clearly state all per	tinent det	ails, and give pertinent da	tes, including estin	nated date of starting any prop
SEE ATTACHED FOR DETAI	[L				
			•		
I hereby certify that the information above	s true and complete to the best of m	y knowledg	e and belief.	*****	
SIGNATURE NULLA .	Day 1		LE DRILLING SUPERI	INTENDENT	DATE3/3/98
SIGNATURE WOODING		'''	LE DRILLING SOLENI	MICHDENI	DATE3/3/98
TYPE OR PRINT NAME D. P. WORD	Γ				TELEPHONE NO. 915/682-1
(This space for State Use)		-			
ORIGINAL SIGNED	BY CHRIS WILLIAMS				
DISTRICT I	SUPERVISOR	TET			100 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

TITLE



P.O. Box 552 Midland, TX 79702-0552 Telephone 915/682-1626

# BERTHA BARBER #17 2230' FNL & 1850' FWL SECTION 5, T-20-S, R-37-E LEA COUNTY, NEW MEXICO

12/27/97 - MIRU PATTERSON 71. SPUD 14 3/4" HOLE @ 1945 HRS. DRILLED TO 500'. RAN 12 JTS, 11 3/4", 42#, H-4D, STC CSG. SHOE @ 499', INSERT @ 457'. HOWCO MIXED & PUMPED 271 SX PREMPLUS. BUMPED PLUG & CIRC'D 45 SX TO PIT. CUT CSG. INSTALLED 13" 3M X 11 3/4" SOW "A" SECTION. NU 11" 3M DUAL RAM BOPE. TESTED CSG & BOPE TO 650 PSI. TIH W/11" BIT, TOTAL WOC 14.25 HRS. DRILLED PLUG & SHOE, DRILLED FORMATION TO 3300'. RAN 76 JTS 8 5/8", 32# & 24#, K-55, STC CSG TO 3300'. SHOE @ 3298', COLLAR @ 3256'. HOWCO MIXED & PUMPED 700 SX LITE PREMPLUS. TAILED IN W/205 SX PREM PLUS. PLUG DOWN @ 1900 HRS 1/2/98, DID NOT CIRC CMT. EST TOC @ 450'. SET SLIPS, CUT CSG, NU "B" SECTION. TEST BOPE TO 1500 PSI, CSG TO 1000 PSI. TOTAL WOC - 12.75 HRS. TIH W 7.875" BIT. DRILLED FLOAT EQUIP & RESUMED DRLG FORMATION. HAD SEVER LOSSES 3650'-6100'.

DRILLED TO 7800' TD PRODUCTION HOLE @ 2230 HRS 1/17/98, LOGGED WELL W/PLATFORM EXPRESS. 7794' - 5000', CNL/GF TO SURF. FMI 7794' - 5100'.

RAN 44 JTS, 5 1/2", 17#, 16 JTS, 15.5#, 107 JTS 15.5# K-55 & L-80 PROD CSG TO 7792'.

CEMENTED W/510 SX 50/50 POZ A W/2% GEL WT - 14.2, YIELD 1.33. PLUG DN @ 11:40 HRS 1/19/98. INFLATED PKR, OPENED DV TOOL, CIRC 93 SX TO SURF.

CMTD 2ND STAGE W/300 SX "C" W/10% GEL, 8PPS NACL, WT 11.9, YIELD 2.46. TAILED IN W/100 SX 50/50 POZ A W/2% GEL, WT - 14.2, YIELD 1.33. BUMPED PLUG, CLOSED TOOL. ND BOPE, PU STACK, SET SLIPS, INSTALLED 11" 3M X 7 1/16" 3M TBG SPOOL. RELEASED RIG @ 2100 HRS 1/19/98.

State of New Mexico Lergy, Minerals & Natural Resources Department

Form C-104 Revised October 18, 1994 Instructions on back Submit to Appropriate District Office 5 Copies

PO Box 1980, Hobbs, NM 88241-1980 District II PO Drawer DD, Artesia, NM 88211-0719 1000 Rio Brazos Rd., Aztec, NM 87410 District IV

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

District IV 2040 South Pacheco	o. Santa F	e. NM 87	7505					0						AME	NDED REPO	
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Marathon 011 Company THIS WELL HAS							FN	PLACED, IN	014021							
P.O. Box 2		PERROY SPECIMEN				F YOU DO	<sup>3</sup> Reason for Filing Code				de					
Hobbs, NM 88240				MOTHEY THIS OFFICES								NW				
4 API Number								<sup>5</sup> Pool Nan	1116	11119,199			<sup>6</sup> Pool Code			
30-0 3						1.0.1.0.1.0.1.0.1			(11, 1	<u></u>			46970			
7 Property Code								8 Property Name					9 Well Number			
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UL or lot no.	Section	Tov	wnship	Range	L	ot. Idn	Fee	t from the	North/So	uth Line	Feet from t	he	East/We	st line	County	
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P Lse Code	Fiod			ue Ga		•		15 C-129 Perm		`   `	C-129 Effe	cuve D	ate	., C-1	29 Expiration Da	
III. Oil an	d Coo	Pumpi Trans			2/3	3/98	l					<del></del>	<u>_</u>	··		
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OGRID				nd Address				- TOD		2. 0, 0	_	22 POD ULSTR Location and Description		I <b>l</b>		
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12/28/97		1/2	6/98	7800*				7430' CIBP			7179	7179-7302*				
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	11°							3302*								
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47 I hereby certif	v that the	rules of	22 the Oil C	`onservatio	n Divi	5 Sion have be	90		36						Pumping	
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Kelly Cook	<u> </u>							Title:	ا الرائي	الاستدا	illness & T					
Title:	00000				-			Approval Da	ite:	0 8 2	1998					
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47 If this is a ch	ange of o	erator fi	ll in the	OGRID nu	mber a	ind name of	the p	revious operate	or	_	<del></del> -					
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i				-6				a Printe	~ traiiie				Title		Date	