

District I - (505) 393-6161
PO Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410

NEW MEXICO
Energy Minerals and Natural Resources Department

Oil Conservation Division

2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

FORM C-140
Originated 11/1/95

Submit Original
Plus 2 Copies
to appropriate
District Office

H-0401

**APPLICATION FOR
QUALIFICATION OF WELL WORKOVER PROJECT
AND CERTIFICATION OF APPROVAL**

THREE COPIES OF THIS APPLICATION AND ALL ATTACHMENTS MUST BE FILED WITH THE APPROPRIATE DISTRICT OFFICE OF THE CONSERVATION DIVISION.

- I. Operator: Marathon Oil Company OGRID #: 14021
Address: P. O. Box 552, Midland, TX 79702
Contact Party: Richard E. Pollard Phone #: 915/687-8326
- II. Name of Well: Lou Wortham No. 19 API #: 30-025-29469
Location of Well: Unit Letter D, 680 feet from the North line and 880 feet from the West line,
Section 11, Township 22-S, Range 37-E, NMPM, Lea County
- III. Date Workover Procedures Commenced: 8/8/97
Date Workover Procedures were Completed: 8/19/97
- IV. Attach a description of the Workover Procedures undertaken to increase the production from the Well.
- V. Attach an estimate of the production rate of the Well (a production decline curve or other acceptable method, and table showing monthly oil and/or gas Project Production) based on at least twelve (12) months of established production which shows the future rate of production based on well performance prior to performing Workover.
- VI. Pool(s) on which Production Projection is based: Abo

VII. AFFIDAVIT:

State of TEXAS)
) ss.
County of Midland)

Richard E. Pollard, being first duly sworn, upon oath states:

1. I am the Operator or authorized representative of the Operator of the above referenced Well.
2. I have made, or caused to be made, a diligent search of the production records which are reasonably available and contain information relevant to the production history of this Well.
Restoration Project.
3. To the best of my knowledge, the data used to prepare the Production Projection for this Well is complete and accurate and this projection was prepared using sound petroleum engineering principles.

Richard E. Pollard
(Name) Richard E. Pollard

Senior Government Compliance Representative
(Title)

DEC 02 1997

SUBSCRIBED AND SWORN TO before me this 13th day of Nov. 19 97.

Lee Kirby
Notary Public

My Commission expires: 8-5-2000

FOR OIL CONSERVATION DIVISION USE ONLY:

VIII. CERTIFICATION OF APPROVAL:

This Application for Qualification of Well Workover Project is hereby approved and the above referenced Well is designated as a Well Workover Project pursuant to the "Natural Gas and Crude Oil Production Incentive Act" (Laws 1995, Chapter 15, Sections 1 through 8). The Oil Conservation Division hereby verifies the Production projection for the Well Workover Project attached to this application. By copy of this Application and Certification of Approval, the Division notifies the Secretary of the Taxation and Revenue Department of this Approval and certifies that this Well Workover Project has been completed as of 8-19-97, 19 97.

Paul E. Hardy
District Supervisor, District 1
Oil Conservation Division

Date: 11/25/97

IX. DATE OF NOTIFICATION TO THE SECRETARY OF THE TAXATION AND REVENUE DEPARTMENT.
DATE: _____

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

OIL CONSERVATION DIVISION

DISTRICT I
P.O. Box 1980, Hobbs NM 88241-1980

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

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

2040 Pacheco St.
Santa Fe, NM 87505

WELL API NO. 30-025-29469
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Lou Worthan
8. Well No. 19
9. Pool name or Wildcat Wantz Abo
10. Elevation (Show whether DF, RKB, RT, GR, etc.) GL 3368 KB 3382

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 <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER	
2. Name of Operator Marathon Oil Company	
3. Address of Operator P.O. Box 2409 Hobbs, NM 88240	
4. Well Location Unit Letter D : 680 Feet From The North Line and 880 Feet From The West Line Section 11 Township 22-S Range 37-E NMPM Lea County	
10. Elevation (Show whether DF, RKB, RT, GR, etc.) GL 3368 KB 3382	

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: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐
CASING TEST AND CEMENT JOB ☐
OTHER: **Add Abo Perfs. Stimulate. Artificial Lift** ☒

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.

MIRU pulling unit. ND wellhead. NU BOP. Rel TAC and POOH. POOH w/tbg. PU RBP. GIH to 63'. Test BOP and POOH. RIH w/csg scrapper to 7000'. POOH. RIH w/RBP and set at 6500'. Pickle tbg w/700 gals 15% HCL. Rel RBP and GIH to 6870. reset RBP.

Perforate Abo w/2 JSPF, 120 deg phasing from 6546-56', 6574-94', 6611-16', 6615-28', 6631-34', 6650-65', 6675-82', 6692-95', 6698-6702', 6710-16', 6726-38', 6744-46', 6754-57', 6762-68', 6772-78', 6782-85', 6794-97', 6802-12', 6818-24', 6834-40', 264 total holes. RIH w/pkr, set at 6860'. Test RBP. PUH and reset pkr at 6505'. Acidize Abo w/10,000 gals 15% acid. Swabbed well.

Rel pkr at 6505'. RIH latch onto RBP. POOH w/pkr and RBP. RIH w/2 3/8" production tbg. SN at 7009'. TAC at 6505'. ND BOP. NU wellhead. RIH w/pump and rods. RD pulling unit.

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

SIGNATURE Kelly Cook TITLE Records Processor DATE 8/26/97
TYPE OR PRINT NAME Kelly Cook TELEPHONE NO. 393-7106

(This space for State Use)

ORIGINAL SIGNED BY CHRIS WILLIAMS
DISTRICT I SUPERVISOR

APPROVED BY _____ TITLE NORTHWEST OPERATIONS DATE SEP 5 1997
CONDITIONS OF APPROVAL, IF ANY: _____

Lou Wortham No. 19

BASIS OF PRODUCTION PROJECTION

The production projection was based on decline curve analysis using Aries PC program and the following parameters:

Gas:

Start of history match:	4/96
End of history match:	4/97
Projected method:	Exponential decline, auto fit.
Bad data removed:	None.

Oil:

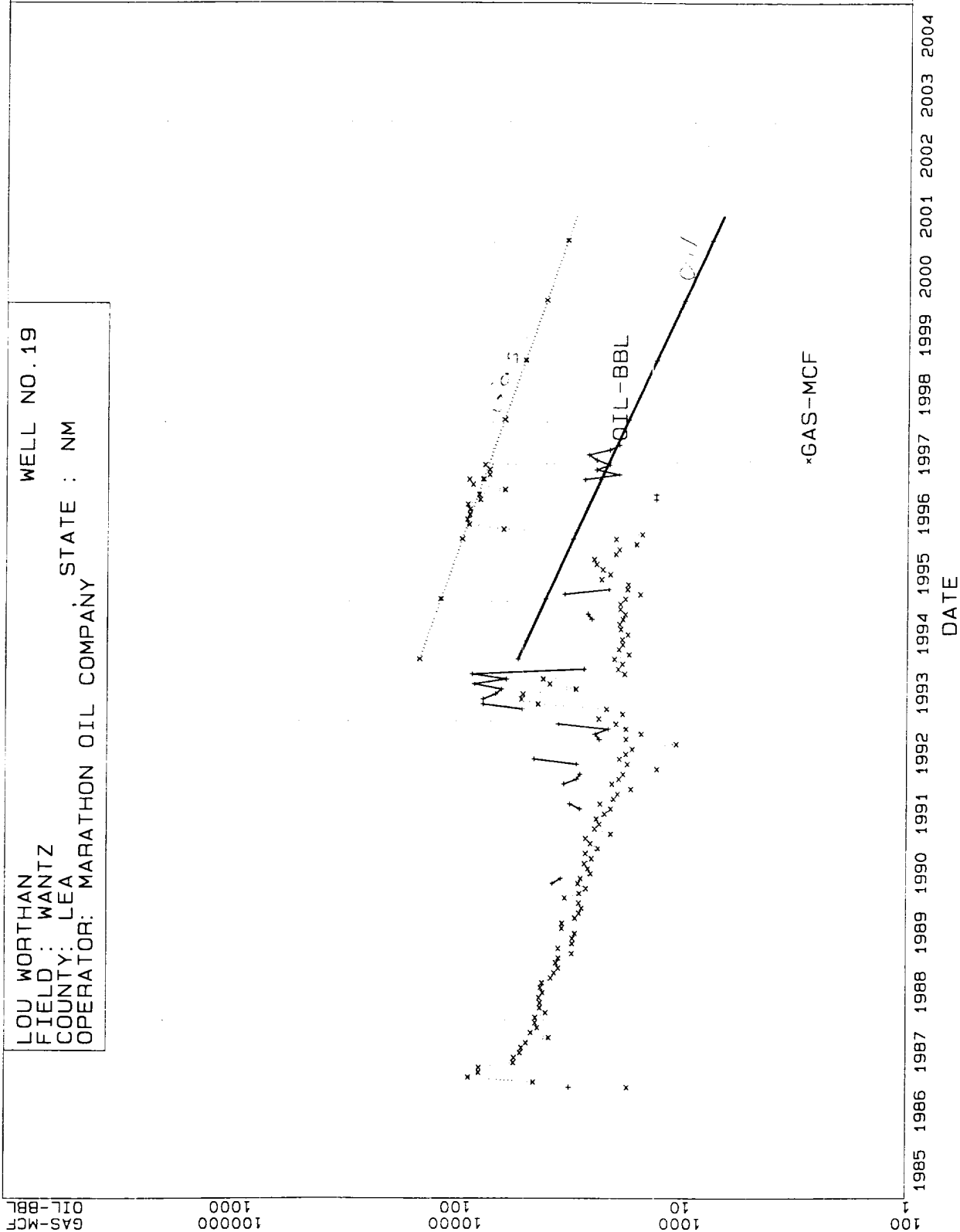
Start of history match:	
End of history match:	
Projected method:	Parallel decline to gas through last group of data.
Bad data removed:	None.

LOU WORTHAN
FIELD : WANTZ
COUNTY: LEA
OPERATOR: MARATHON OIL COMPANY
STATE : NM
WELL NO. 19

STATE : NM

COMPANY: MARATHON OIL COMPANY

OIL	←	↑	→	x	*
Gal=	DEFAULT			GAS	DEFAULT
Ref=	01/94			Rcf=	01/94
Cum=	1.016			Cum=	272.852
Rem=	2.021			Rem=	655.675
EUR=	3.037			EUR=	928.527
Yrs=	7.500			Yrs=	7.500
G1=	53.9			G1=	14654.2
De=	24.511			De=	19.215
n=	.000			n=	.000
Qab=	6.6			Qab=	2995.3



LOU WORTHAN WELL NO. 19
API NO. 30025294690000
WANTZ FIELD
LEA COUNTY , NM

DATE: 11/04/97
TIME: 15:54:47
PAGE: 1
POLLARD.DBS

P R O D U C T I O N F O R E C A S T

DATE	OIL / COND	GAS
PRIOR	0	0
9/97	19	6642
10/97	19	6525
11/97	18	6410
12/97	18	6297
YTD/97	73	25875
1/98	17	6186
2/98	17	6077
3/98	17	5970
4/98	16	5865
5/98	16	5762
6/98	15	5660
7/98	15	5560
8/98	15	5462
9/98	14	5366
10/98	14	5271
11/98	14	5179
12/98	13	5087
TOT/98	183	67446
1/99	13	4998
2/99	13	4910
3/99	12	4823
4/99	12	4738
5/99	12	4654
6/99	12	4572
7/99	11	4492
8/99	11	4413
9/99	11	4335
10/99	11	4259
11/99	10	4183
12/99	10	4110
TOT/99	138	54486
TOTAL	395	147807

LOU WORTHAN WELL NO. 19
API NO. 30025294690000
WANTZ FIELD
LEA COUNTY , NM

DATE: 11/04/97
TIME: 15:54:50
PAGE: 2
POLLARD.DBS

P R O D U C T I O N F O R E C A S T

DATE	OIL / COND	GAS
PRIOR	395	147807
1/00	10	4037
2/00	10	3966
3/00	9	3896
4/00	9	3828
5/00	9	3760
6/00	9	3694
7/00	9	3629
8/00	8	3565
9/00	8	3502
10/00	8	3440
11/00	8	3380
12/00	8	3320
TOT/00	104	44017
1/01	7	3262
2/01	7	3204
3/01	7	3148
4/01	7	3092
5/01	7	3038
6/01	7	2984
7/01	0	0
8/01	0	0
9/01	0	0
10/01	0	0
11/01	0	0
12/01	0	0
TOT/01	42	18727
1/02	0	0
2/02	0	0
3/02	0	0
4/02	0	0
5/02	0	0
6/02	0	0
7/02	0	0
8/02	0	0
9/02	0	0
10/02	0	0
11/02	0	0
12/02	0	0
TOT/02	0	0
TOTAL	541	210551