

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-0031

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, Texas 79702

Contact Party: Richard E. Pollard Phone #: (915) 687-8326

II. Name of Well: Lou Worthan No. 9 API #: 3002510218

Location of Well: Unit Letter E, 1905 Feet from the N line and 440 feet from the W line,
Section 11, Township 22-S, Range 37-E, NMPM, Lea County

III. Date Workover Procedures Commenced: January 6, 1996

Date Workover Procedures were Completed: January 16, 1996

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: Blinbry and Tubb

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)

Senior Government Compliance Representative
(Title)

SUBSCRIBED AND SWORN TO before me this 6th day of June, 19 96.
Lee Kirby
Notary Public

My Commission expires: 8-5-96

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 1-16, 19 96.

James H. Carter
District Supervisor, District 1 OIL CONSERVATION DIVISION DISTRICT 1 SUPERVISOR
Date: 8-11-96

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

Mid-Coast Region
Production United States



**Marathon
Oil Company**

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

11-22-39

June 6, 1996

New Mexico Energy and Natural Resource Dept.
Oil Conservation Division
P. O. Box 1980
Hobbs, New Mexico 88241-1980

Re: Qualification of Well Workover Project
And Certification of Approval
Lou Worthan No. 9

Gentlemen:

Please find attached Marathon's application for Qualification of Well Workover and Certification of Approval for the above referenced well.

If additional information is required, please feel free to call me at (915) 687-8326.

Sincerely,

A handwritten signature in cursive script, appearing to read 'R E Pollard'.

R. E. Pollard
Senior Governmental
Compliance Representative

H:\rep\LouW#9

xc: R. F. Unger
T. A. Deines
E. M. Campbell
C. K. Campbell
Central File

LOU WORTHAN NO. 9
DESCRIPTION OF WORKOVER PROCEDURE
(1/6/96 - 1/16/96)

1. MIRU workover rig, killed well, NDWH, NU BOP.
2. Released packer, pulled tubing.
3. RIH and retrieved RBP and POOH.
4. TIH with 2-3/8" tubing and packer, set at 5275'. Loaded annulus and tested to 1000 psi. Released packer and POOH.
5. RU wireline unit, selectively perforated Blinbry 5535'-5750', 230 holes. *Interim*
6. RIH with 2-3/8" tubing and packer, set packer at 5718' and acidized Blinbry with 6000 gallons 15% Hcl using 300 ball sealers.
7. Released packer and wiped balls off perforations by lowering packer through perf interval. Reset packer at 5305'.
8. Swab spent acid back.
9. Pulled tubing and packer and ran production equipment.

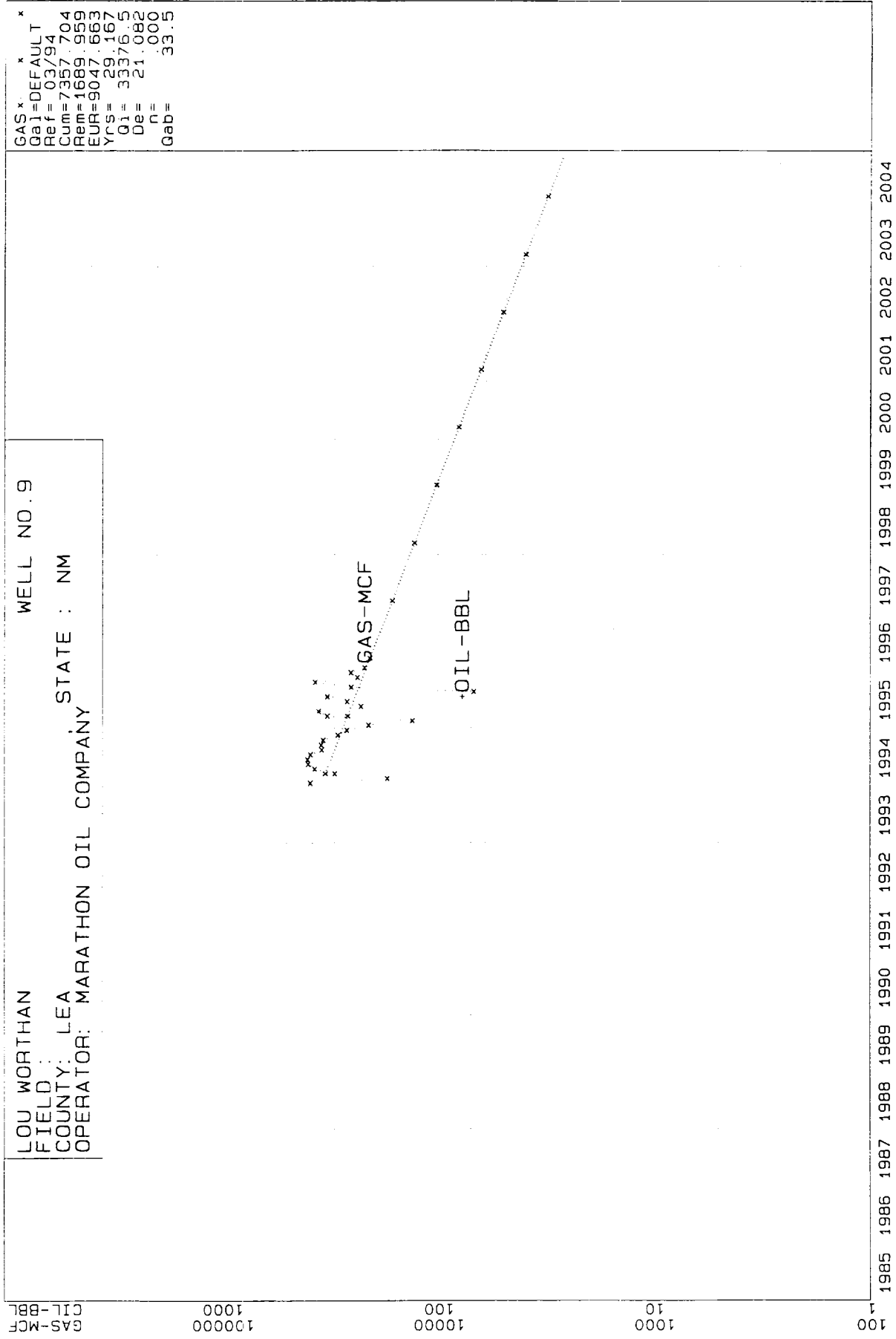
LOU WORTHAN NO. 9
BASIS OF PRODUCTION PROJECTION

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

Gas:

Start of history match:	January 1994
End of history match:	January 1996
Projection method:	Auto fit using exponential decline
Bad data removed:	None

h:\rep\PrdPrjLW#9



Blinebry and Tubb production

LOU WORTHAN WELL NO. 9
API NO. 30025102180000
FIELD
LEA COUNTY , NM

DATE: 06/03/96
TIME: 10:18:55
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MOCNM.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
2/96	0	20993
3/96	0	20583
4/96	0	20181
5/96	0	19787
6/96	0	19400
7/96	0	19021
8/96	0	18650
9/96	0	18285
10/96	0	17928
11/96	0	17578
12/96	0	17234
TOT/96	0	209642
1/97	0	16898
2/97	0	16568
3/97	0	16244
4/97	0	15927
5/97	0	15615
6/97	0	15310
7/97	0	15011
8/97	0	14718
9/97	0	14430
10/97	0	14149
11/97	0	13872
12/97	0	13601
TOT/97	0	182343
1/98	0	13335
2/98	0	13075
3/98	0	12819
4/98	0	12569
5/98	0	12323
6/98	0	12083
7/98	0	11847
8/98	0	11615
9/98	0	11388
10/98	0	11166
11/98	0	10948
12/98	0	10734
TOT/98	0	143902
TOTAL	0	535887

LOU WORTHAN WELL NO. 9
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LEA COUNTY , NM

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

DATE	OIL / COND	GAS
-----	-----	-----
PRIOR	0	535887
1/99	0	10524
2/99	0	10318
3/99	0	10117
4/99	0	9919
5/99	0	9725
6/99	0	9535
7/99	0	9349
8/99	0	9166
9/99	0	8987
10/99	0	8812
11/99	0	8640
12/99	0	8471
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TOT/99	0	113564
1/00	0	8305
2/00	0	8143
3/00	0	7984
4/00	0	7828
5/00	0	7675
6/00	0	7525
7/00	0	7378
8/00	0	7234
9/00	0	7093
10/00	0	6954
11/00	0	6818
12/00	0	6685
-----	-----	-----
TOT/00	0	89623
1/01	0	6554
2/01	0	6426
3/01	0	6301
4/01	0	6178
5/01	0	6057
6/01	0	5939
7/01	0	5823
8/01	0	5709
9/01	0	5597
10/01	0	5488
11/01	0	5381
12/01	0	5276
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TOT/01	0	70728
TOTAL	0	809802

LOU WORTHAN WELL NO. 9
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P R O D U C T I O N F O R E C A S T

DATE	OIL / COND	GAS
PRIOR	0	809802
1/02	0	5173
2/02	0	5072
3/02	0	4972
4/02	0	4875
5/02	0	4780
6/02	0	4687
7/02	0	4595
8/02	0	4505
9/02	0	4417
10/02	0	4331
11/02	0	4246
12/02	0	4163
TOT/02	0	55817
1/03	0	4082
2/03	0	4002
3/03	0	3924
4/03	0	3848
5/03	0	3772
6/03	0	3699
7/03	0	3626
8/03	0	3556
9/03	0	3486
10/03	0	3418
11/03	0	3351
12/03	0	3286
TOT/03	0	44050
1/04	0	3222
2/04	0	3159
3/04	0	3097
4/04	0	3036
5/04	0	2977
6/04	0	2919
7/04	0	2862
8/04	0	2806
9/04	0	2751
10/04	0	2697
11/04	0	2645
12/04	0	2593
TOT/04	0	34763
TOTAL	0	944433

LOU WORTHAN WELL NO. 9
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P R O D U C T I O N F O R E C A S T

DATE	OIL / COND	GAS
-----	-----	-----
PRIOR	0	944433
1/05	0	2542
2/05	0	2493
3/05	0	2444
4/05	0	2396
5/05	0	2349
6/05	0	2304
7/05	0	2259
8/05	0	2214
9/05	0	2171
10/05	0	2129
11/05	0	2087
12/05	0	2046
-----	-----	-----
TOT/05	0	27435
1/06	0	2006
2/06	0	1967
3/06	0	1929
4/06	0	1891
5/06	0	1854
6/06	0	1818
7/06	0	1782
8/06	0	1748
9/06	0	1713
10/06	0	1680
11/06	0	1647
12/06	0	1615
-----	-----	-----
TOT/06	0	21651
1/07	0	1583
2/07	0	1552
3/07	0	1522
4/07	0	1492
5/07	0	1463
6/07	0	1435
7/07	0	1407
8/07	0	1379
9/07	0	1352
10/07	0	1326
11/07	0	1300
12/07	0	1274
-----	-----	-----
TOT/07	0	17086
TOTAL	0	1010605

LOU WORTHAN WELL NO. 9
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P R O D U C T I O N F O R E C A S T

DATE	OIL / COND	GAS
PRIOR	0	1010605
1/08	0	1250
2/08	0	1225
3/08	0	1201
4/08	0	1178
5/08	0	1155
6/08	0	1132
7/08	0	1110
8/08	0	1088
9/08	0	1067
10/08	0	1046
11/08	0	1026
12/08	0	1006
TOT/08	0	13484
1/09	0	986
2/09	0	967
3/09	0	948
4/09	0	929
5/09	0	911
6/09	0	894
7/09	0	876
8/09	0	859
9/09	0	842
10/09	0	826
11/09	0	810
12/09	0	794
TOT/09	0	10641
1/10	0	778
2/10	0	763
3/10	0	748
4/10	0	734
5/10	0	719
6/10	0	705
7/10	0	691
8/10	0	678
9/10	0	665
10/10	0	652
11/10	0	639
12/10	0	626
TOT/10	0	8398
TOTAL	0	1043129

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

DATE	OIL / COND	GAS
PRIOR	0	1043129
1/11	0	614
2/11	0	602
3/11	0	590
4/11	0	579
5/11	0	568
6/11	0	556
7/11	0	546
8/11	0	535
9/11	0	524
10/11	0	514
11/11	0	504
12/11	0	494
TOT/11	0	6628
1/12	0	485
2/12	0	475
3/12	0	466
4/12	0	457
5/12	0	448
6/12	0	439
7/12	0	431
8/12	0	422
9/12	0	414
10/12	0	406
11/12	0	398
12/12	0	390
TOT/12	0	5230
1/13	0	383
2/13	0	375
3/13	0	368
4/13	0	361
5/13	0	353
6/13	0	347
7/13	0	340
8/13	0	333
9/13	0	327
10/13	0	320
11/13	0	314
12/13	0	308
TOT/13	0	4128
TOTAL	0	1059114

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

DATE	OIL / COND	GAS
PRIOR	0	1059114
1/14	0	302
2/14	0	296
3/14	0	290
4/14	0	285
5/14	0	279
6/14	0	274
7/14	0	268
8/14	0	263
9/14	0	258
10/14	0	253
11/14	0	248
12/14	0	243
TOT/14	0	3257
1/15	0	238
2/15	0	234
3/15	0	229
4/15	0	225
5/15	0	220
6/15	0	216
7/15	0	212
8/15	0	207
9/15	0	203
10/15	0	199
11/15	0	196
12/15	0	192
TOT/15	0	2571
1/16	0	188
2/16	0	184
3/16	0	181
4/16	0	177
5/16	0	174
6/16	0	170
7/16	0	167
8/16	0	164
9/16	0	161
10/16	0	157
11/16	0	154
12/16	0	151
TOT/16	0	2029
TOTAL	0	1066971

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

DATE	OIL / COND	GAS
PRIOR	0	1065971
1/17	0	148
2/17	0	145
3/17	0	143
4/17	0	140
5/17	0	137
6/17	0	134
7/17	0	132
8/17	0	129
9/17	0	127
10/17	0	124
11/17	0	122
12/17	0	119
TOT/17	0	1601
1/18	0	117
2/18	0	115
3/18	0	113
4/18	0	110
5/18	0	108
6/18	0	106
7/18	0	104
8/18	0	102
9/18	0	100
10/18	0	98
11/18	0	96
12/18	0	94
TOT/18	0	1264
1/19	0	92
2/19	0	91
3/19	0	89
4/19	0	87
5/19	0	85
6/19	0	84
7/19	0	82
8/19	0	80
9/19	0	79
10/19	0	77
11/19	0	76
12/19	0	74
TOT/19	0	997
TOTAL	0	1070833

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

DATE	OIL / COND	GAS
PRIOR	0	1070833
1/20	0	73
2/20	0	72
3/20	0	70
4/20	0	69
5/20	0	67
6/20	0	66
7/20	0	65
8/20	0	64
9/20	0	62
10/20	0	61
11/20	0	60
12/20	0	59
TOT/20	0	787
1/21	0	58
2/21	0	56
3/21	0	55
4/21	0	54
5/21	0	53
6/21	0	52
7/21	0	51
8/21	0	50
9/21	0	49
10/21	0	48
11/21	0	47
12/21	0	46
TOT/21	0	621
1/22	0	45
2/22	0	45
3/22	0	44
4/22	0	43
5/22	0	42
6/22	0	41
7/22	0	40
8/22	0	40
9/22	0	39
10/22	0	38
11/22	0	37
12/22	0	37
TOT/22	0	490
TOTAL	0	1072731

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LEA COUNTY , NM

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

DATE	OIL / COND	GAS
PRIOR	0	1072731
1/23	0	36
2/23	0	35
3/23	0	34
4/23	0	34
5/23	0	0
6/23	0	0
7/23	0	0
8/23	0	0
9/23	0	0
10/23	0	0
11/23	0	0
12/23	0	0
TOT/23	0	139
1/24	0	0
2/24	0	0
3/24	0	0
4/24	0	0
5/24	0	0
6/24	0	0
7/24	0	0
8/24	0	0
9/24	0	0
10/24	0	0
11/24	0	0
12/24	0	0
TOT/24	0	0
1/25	0	0
2/25	0	0
3/25	0	0
4/25	0	0
5/25	0	0
6/25	0	0
7/25	0	0
8/25	0	0
9/25	0	0
10/25	0	0
11/25	0	0
12/25	0	0
TOT/25	0	0
TOTAL	0	1072870