

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-0268

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. 13 API #: 300 252 4943
Location of Well: Unit Letter C, 330 Feet from the N line and 2080 feet from the W line,
Section 11, Township 22-S, Range 37-E, NMPM, Lea County
- III. Date Workover Procedures Commenced: January 1, 1997
Date Workover Procedures were Completed: January 22, 1997
- 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: Drinkard Abo and Granite Wash
- 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)

SUBSCRIBED AND SWORN TO before me this 20th day of February 1997.



Jean Hayslip
Notary Public

My Commission expires: 4-26-97

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 1-22-97, 1997.

[Signature]
District Supervisor, District _____
Oil Conservation Division

Seal/Stamp

Date: 3/3/97

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

LOU WORTHAN NO. 13
BASIS OF PRODUCTION PROJECTION

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

Oil:

Condensate projection was based on decline that paralleled the gas decline.
Constant yield.

Gas:

Start of history match:	June 1993
End of history match:	December 1996
Projection method:	Auto fit using exponential decline
Bad data removed:	None

LOU WORTHAN NO. 13
DESCRIPTION OF WORKOVER PROCEDURE
(1/1/97 - 1/22/97)

1. MI RU workover rig, killed well and released on/off tool at 7055'.
2. Fished on packer at 7073', washed over and recovered packer.
3. Set RBP at 7095', selectively perforated Drinkard Abo 5756'-7077', total of 268 hours.
4. Reset RBP at 7087' and packer at 6955'.
5. RU Halliburton, treated perms with 5000 gallons of 15% Ferchek.
6. Reset RBP at 6965' and packer at 6939', pumped 9000 gallons 15% Ferchek acid.
7. Reset RBP at 7087' and packer at 6680'.
8. Swabbed on well.
9. Pulled packer and selectively perforated Drinkard Abo 6364'-6738'.
10. Acidized interval with 9000 gallons 15%.
11. Reset RBP at 6530' and packer at 6181'.
12. Acidized with 6500 gallons 15%.
13. Swabbed on well.
14. Reset RBP at 6751' and packer at 6496'.
15. Swabbed and flowed well to test separator.
16. Acidized Abo with 5000 gallons 15%.
17. Swabbed and flowed well.
18. Ran rod pump.

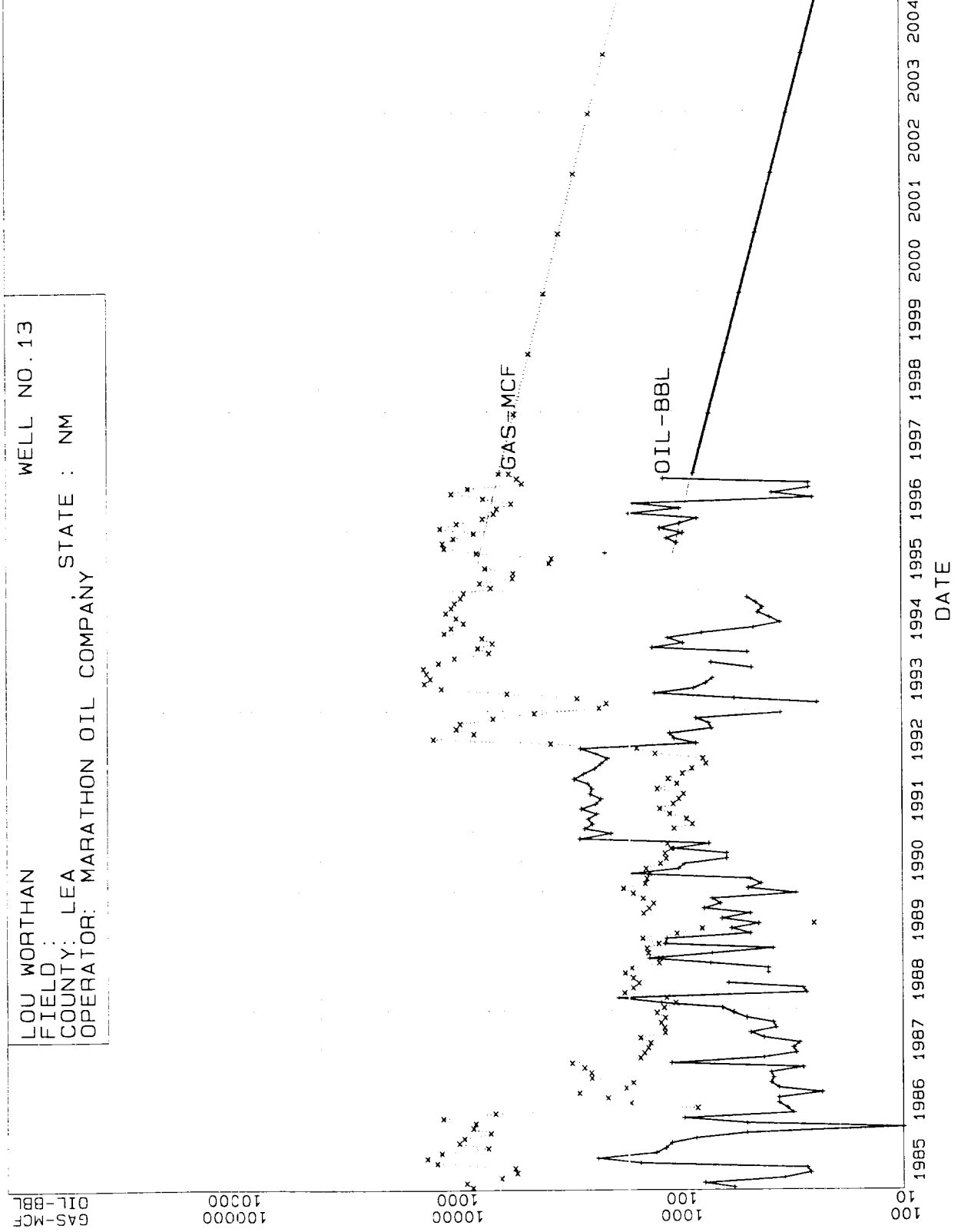
LOU WORTHAN
 FIELD :
 COUNTY: LEA
 OPERATOR: MARATHON OIL COMPANY

WELL NO. 13

STATE : NM

OIL
 Ga1=DEFAULT
 Ref= 12/96
 Cum= 36.184
 Rem= 5.422
 EUR= 41.606
 Yrs= 11.833
 Q1= 85.6
 De= 14.871
 n= .000
 Gab= 12.9

GAS
 Ga1=DEFAULT
 Ref= 12/96
 Cum= 3619.510
 Rem= 406.245
 EUR= 4025.755
 Yrs= 11.833
 Q1= 6252.8
 De= 14.369
 n= .000
 Gab= 1001.3



Drinking Abo and Granite wash combined

LOU WORTHAN WELL NO. 13
API NO. 30025249430000
FIELD
LEA COUNTY , NM

DATE: 02/10/97
TIME: 15:33:45
PAGE: 1
MOCSE.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
2/97	83	6054
3/97	82	5976
4/97	81	5899
5/97	80	5824
6/97	78	5749
7/97	77	5675
8/97	76	5602
9/97	75	5530
10/97	74	5459
11/97	73	5389
12/97	72	5320
TOT/97	853	62478
1/98	71	5252
2/98	71	5184
3/98	70	5118
4/98	69	5052
5/98	68	4987
6/98	67	4923
7/98	66	4860
8/98	65	4797
9/98	64	4736
10/98	63	4675
11/98	62	4615
12/98	62	4555
TOT/98	797	58752
1/99	61	4497
2/99	60	4439
3/99	59	4382
4/99	58	4326
5/99	58	4270
6/99	57	4215
7/99	56	4161
8/99	55	4108
9/99	55	4055
10/99	54	4003
11/99	53	3952
12/99	52	3901
TOT/99	679	50310
TOTAL	2329	171540

LOU WORTHAN WELL NO. 13
API NO. 30025249430000
FIELD
LEA COUNTY , NM

DATE: 02/10/97
TIME: 15:33:49
PAGE: 2
MOCSE.DBS

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

DATE	OIL / COND	GAS
PRIOR	2329	171540
1/00	52	3851
2/00	51	3801
3/00	50	3753
4/00	50	3704
5/00	49	3657
6/00	48	3610
7/00	48	3563
8/00	47	3518
9/00	47	3472
10/00	46	3428
11/00	45	3384
12/00	45	3340
TOT/00	578	43081
1/01	44	3297
2/01	43	3255
3/01	43	3213
4/01	42	3172
5/01	42	3131
6/01	41	3091
7/01	41	3051
8/01	40	3012
9/01	40	2973
10/01	39	2935
11/01	39	2898
12/01	38	2860
TOT/01	492	36891
1/02	38	2824
2/02	37	2787
3/02	37	2752
4/02	36	2716
5/02	36	2681
6/02	35	2647
7/02	35	2613
8/02	34	2579
9/02	34	2546
10/02	33	2514
11/02	33	2481
12/02	32	2449
TOT/02	419	31590
TOTAL	3817	283102

LOU WORTHAN WELL NO. 13
API NO. 30025249430000
FIELD
LEA COUNTY , NM

DATE: 02/10/97
TIME: 15:33:53
PAGE: 3
MOCSE.DBS

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

DATE	OIL / COND	GAS
PRIOR	3817	283102
1/03	32	2418
2/03	32	2387
3/03	31	2356
4/03	31	2326
5/03	30	2296
6/03	30	2267
7/03	29	2237
8/03	29	2209
9/03	29	2180
10/03	28	2152
11/03	28	2125
12/03	28	2097
TOT/03	356	27051
1/04	27	2070
2/04	27	2044
3/04	26	2018
4/04	26	1992
5/04	26	1966
6/04	25	1941
7/04	25	1916
8/04	25	1891
9/04	24	1867
10/04	24	1843
11/04	24	1819
12/04	23	1796
TOT/04	303	23164
1/05	23	1773
2/05	23	1750
3/05	23	1728
4/05	22	1706
5/05	22	1684
6/05	22	1662
7/05	21	1641
8/05	21	1620
9/05	21	1599
10/05	21	1578
11/05	20	1558
12/05	20	1538
TOT/05	258	19835
TOTAL	4736	353152

LOU WORTHAN WELL NO. 13
API NO. 30025249430000
FIELD
LEA COUNTY , NM

DATE: 02/10/97
TIME: 15:34:02
PAGE: 4
MOCSE.DBS

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

DATE	OIL / COND	GAS
PRIOR	4736	353152
1/06	20	1518
2/06	19	1499
3/06	19	1479
4/06	19	1460
5/06	19	1442
6/06	18	1423
7/06	18	1405
8/06	18	1387
9/06	18	1369
10/06	17	1351
11/06	17	1334
12/06	17	1317
TOT/06	220	16985
1/07	17	1300
2/07	17	1283
3/07	16	1267
4/07	16	1251
5/07	16	1235
6/07	16	1219
7/07	15	1203
8/07	15	1188
9/07	15	1172
10/07	15	1157
11/07	15	1142
12/07	14	1128
TOT/07	187	14545
TOTAL	5143	384681