

District I - (505) 393-6161
P. O. 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
District IV

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 - 0021

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 OIL CONSERVATION DIVISION.

- I. Operator: Marathon Oil Company OGRID #: 14021
Address: P. O. Box 552 - Midland, Texas 79702
Contact Party: R. E. Pollard Phone: (915) 687-8326
- II. Name of Well: Edith Butler "B" No. 1 API #: 3002510252
Location of Well: Unit Letter I, 1980 Feet from the north line and 660 feet from the east line,
Section 13, Township 22-S, Range 37-E, NMPM, Lea County
- III. Date Workover Procedures Commenced: January 24, 1996
Date Workover Procedures were Completed: February 7, 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: So. Brunson Drinkard Abo & Tubb Oil & Gas

VII. AFFIDAVIT:

State of Texas)
County of Midland) ss.

R. 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.
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. Galland
(Name)

Senior Government Compliance Representative
(Title)

SUBSCRIBED AND SWORN TO before me this 23rd day of Feb, 1996

Lue 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 2-15, 1996

Henry Sexton
District Supervisor, District
Oil Conservation Division

DISTRICT 1 SUPERVISOR

Date: 4-15-96

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

DATE: _____



EDITH BUTLER 'B' NO. 1
DESCRIPTION OF WORKOVER PROCEDURE
(1/24/96 -2/7/96)

1. POOH with tubing, perf Lower Blinebry 5765' to 5840'.
2. RIH with packer and tubing.
3. Acidized Lower Blinebry, flowed back and swabbed 38 barrels.
4. POOH with tubing, RIH with RBP and set at 5737'.
5. Perf Upper Blinebry 5482'-5718'.
6. RIH with treating packer and tubing.
7. Acidized Upper Blinebry perms.
8. POOH with tubing and RBP, RIH with 3-1/2" frac string.
9. Frac treated perms 5482'-5840' with 108,500 gallons of gel and 230,000# of 16/30 sand.
10. POOH with frac string, RIH with 2-3/8" open ended.
11. POOH with tubing, RIH with packer on 2-3/8" tubing, set packer at 5393'.

h:\rep\WOproBut

EDITH BUTLER 'B' NO. 1
BASIS OF PRODUCTION PROJECTION

Basis of Production Projection: Decline curve analysis using a combined plot of production from both the Drinkard Abo and Tubb oil and gas. An Aries PC program was used to do the decline using the following parameters.

Gas and Oil:

Start of history match:	January 1987
End of history match:	January 1993
Projection method:	Auto fit using exponential decline
Bad data removed:	None
Economic limit - Gas:	1500 MCFPM
Oil:	9 BPM, forced to match gas

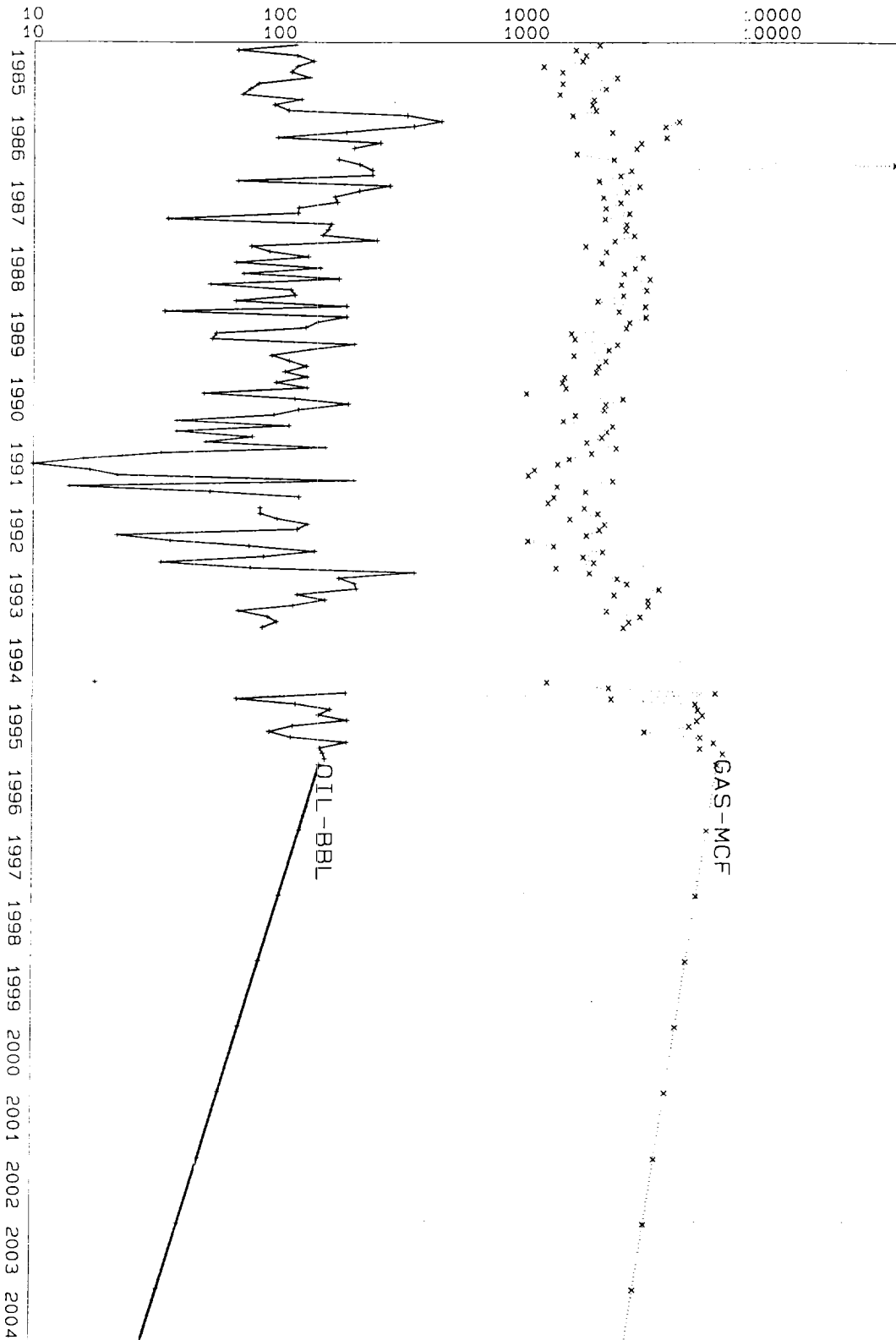
The slope of the decline was derived using the time intervals given above. The decline was then moved up to start at the last point prior to the workover.

Prior to 1995 this well was a due completion. In early 1995 the well was commingled and exhibited a moderated amount of flush production following a year of being shut in.

h:\rep\PrProjB

GAS-MCF
OIL-BBL

WELL NO. 1
EDITH BUTLER B
FIELD : DRINKARD ABO/TUBB OIL & GAS
COUNTY: LEA
OPERATOR: MARATHON OIL COMPANY
STATE : NM



OIL ————
Ga1=DEFAULT
Ref= 01/96
Cum= 155.326
Rem= 8.793
EUR= 164.119
Yrs= 14.500
Q1= 146.0
De= 16.942
N= 10.0
Gab= 10.0
GAS *-----*
Ga1=DEFAULT
Ref= 01/96
Cum= 3856.563
Rem= 569.627
EUR= 4428.210
Yrs= 14.500
Q1= 6053.3
De= 9.122
N= 1000
Gab= 1512.8

DATE

EDITH BUTLER B WELL NO. 1
API NO. 30025102520000
FIELD DRINKARD ABO/TUBB OIL & GAS
LEA COUNTY , NM

DATE: 02/20/96
TIME: 16:23:20
PAGE: 1
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	143	5981
3/96	140	5934
4/96	138	5887
5/96	136	5840
6/96	134	5794
7/96	132	5748
8/96	130	5702
9/96	128	5657
10/96	126	5612
11/96	124	5567
12/96	122	5523
-----	-----	-----
TOT/96	1454	63244
1/97	120	5479
2/97	119	5436
3/97	117	5393
4/97	115	5350
5/97	113	5307
6/97	111	5265
7/97	110	5223
8/97	108	5182
9/97	106	5141
10/97	105	5100
11/97	103	5059
12/97	102	5019
-----	-----	-----
TOT/97	1328	62955
1/98	100	4979
2/98	98	4940
3/98	97	4901
4/98	95	4862
5/98	94	4823
6/98	93	4785
7/98	91	4747
8/98	90	4709
9/98	88	4672
10/98	87	4635
11/98	86	4598
12/98	84	4561
-----	-----	-----
TOT/98	1103	57212
TOTAL	3886	183411

EDITH BUTLER B WELL NO. 1
API NO. 30025102520000
FIELD DRINKARD ABO/TUBB OIL & GAS
LEA COUNTY , NM

DATE: 02/20/96
TIME: 16:23:21
PAGE: 2
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	3886	183411
1/99	83	4525
2/99	82	4489
3/99	80	4454
4/99	79	4418
5/99	78	4383
6/99	77	4348
7/99	76	4314
8/99	75	4280
9/99	73	4246
10/99	72	4212
11/99	71	4179
12/99	70	4145
TOT/99	916	51993
1/00	69	4112
2/00	68	4080
3/00	67	4047
4/00	66	4015
5/00	65	3983
6/00	64	3952
7/00	63	3920
8/00	62	3889
9/00	61	3858
10/00	60	3828
11/00	59	3797
12/00	58	3767
TOT/00	761	47250
1/01	57	3737
2/01	56	3708
3/01	56	3678
4/01	55	3649
5/01	54	3620
6/01	53	3591
7/01	52	3563
8/01	51	3534
9/01	51	3506
10/01	50	3479
11/01	49	3451
12/01	48	3424
TOT/01	632	42940
TOTAL	6195	325594

WITB BUTLER B WELL NO. 1
API NO. 30025102520000
FIELD DRINKARD ABO/TUBB OIL & GAS
LEA COUNTY , NM

DATE: 02/20/96
TIME: 16:23:21
PAGE: 3
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	6195	325594
1/02	48	3396
2/02	47	3369
3/02	46	3343
4/02	45	3316
5/02	45	3290
6/02	44	3264
7/02	43	3238
8/02	43	3212
9/02	42	3187
10/02	41	3161
11/02	41	3136
12/02	40	3111
TOT/02	525	39023
1/03	40	3087
2/03	39	3062
3/03	38	3038
4/03	38	3014
5/03	37	2990
6/03	37	2966
7/03	36	2942
8/03	35	2919
9/03	35	2896
10/03	34	2873
11/03	34	2850
12/03	33	2827
TOT/03	436	35463
1/04	33	2805
2/04	32	2783
3/04	32	2761
4/04	31	2739
5/04	31	2717
6/04	30	2695
7/04	30	2674
8/04	29	2653
9/04	29	2632
10/04	29	2611
11/04	28	2590
12/04	28	2570
TOT/04	362	32228
TOTAL	7519	432309

.DITH BUTLER B WELL NO. 1
API NO. 30025102520000
FIELD DRINKARD ABO/TUBB OIL & GAS
LEA COUNTY , NM

DATE: 02/20/96
TIME: 16:23:22
PAGE: 4
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	7519	432309
1/05	27	2549
2/05	27	2529
3/05	26	2509
4/05	26	2489
5/05	26	2469
6/05	25	2450
7/05	25	2430
8/05	24	2411
9/05	24	2392
10/05	24	2373
11/05	23	2354
12/05	23	2335
TOT/05	301	29289
1/06	23	2317
2/06	22	2298
3/06	22	2280
4/06	22	2262
5/06	21	2244
6/06	21	2226
7/06	21	2208
8/06	20	2191
9/06	20	2173
10/06	20	2156
11/06	19	2139
12/06	19	2122
TOT/06	250	26617
1/07	19	2105
2/07	19	2089
3/07	18	2072
4/07	18	2056
5/07	18	2039
6/07	17	2023
7/07	17	2007
8/07	17	1991
9/07	17	1975
10/07	16	1960
11/07	16	1944
12/07	16	1929
TOT/07	208	24189
TOTAL	8277	512403

WITH BUTLER B WELL NO. 1
API NO. 30025102520000
FIELD DRINKARD ABO/TUBB OIL & GAS
LEA COUNTY , NM

DATE: 02/20/96
TIME: 16:23:23
PAGE: 5
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	8277	512403
1/08	16	1913
2/08	15	1898
3/08	15	1883
4/08	15	1868
5/08	15	1853
6/08	14	1838
7/08	14	1824
8/08	14	1809
9/08	14	1795
10/08	14	1781
11/08	13	1767
12/08	13	1753
TOT/08	172	21982
1/09	13	1739
2/09	13	1725
3/09	13	1711
4/09	12	1698
5/09	12	1684
6/09	12	1671
7/09	12	1658
8/09	12	1644
9/09	11	1631
10/09	11	1618
11/09	11	1605
12/09	11	1593
TOT/09	143	19977
1/10	11	1580
2/10	11	1568
3/10	10	1555
4/10	10	1543
5/10	10	1531
6/10	10	1518
7/10	0	0
8/10	0	0
9/10	0	0
10/10	0	0
11/10	0	0
12/10	0	0
TOT/10	62	9294
TOTAL	8655	563657