ORIGINAL OIL IN PLACE CALCULATIONS

CROSSROADS, SOUTH FIELD

DATA:

PRODUCTIVE ACREAGE (A) =	600 ACRES
AVERAGE POROSITY (Ø) =	10 %
AVG. WATER SATURATION (Sw) =	25 %
NET PAY THICKNESS (H) =	25 FT
OIL FORMATION VOLUME FACTOR (Bo) =	1.27 RB/STB

OOIP = (7758*H*A*Ø*(1-Sw))/Bo

OOIP = 6,872,244 STB

TOTAL FIELD RECOVERY = 3,051,000 STB

RECOVERY FACTOR = 44.40%

BOUGH FIELD

DATA:

PRODUCTIVE ACREAGE (A) =	300 ACRES
AVERAGE POROSITY (Ø) =	6 %
AVG. WATER SATURATION (Sw) =	26 %
NET PAY THICKNESS (H) =	118 FT
OIL FORMATION VOLUME FACTOR (Bo) =	1.25 RB/STB

OOIP = (7758*H*A*Ø*(1-Sw))/Bo

OOIP = 9,754,971 STB

TOTAL FIELD RECOVERY = 3,758,000 STB

RECOVERY FACTOR = 38.52%

BEFORE THE
OIL CONSERVATION DIVISION
Santa Fe, New Mexico

Case No. 10670 (Reopened) Exhibit No. 5

Submitted by: Maralo, Inc.

Hearing Date: June 9, 1994

ORIGINAL OIL IN PLACE CALCULATIONS

BARNES "20" #1 PRORATION UNIT

DATA:

PRODUCTIVE ACREAGE (A) =	40 ACRES
AVERAGE POROSITY (Ø) =	6 %
AVG. WATER SATURATION (Sw) =	25 %
NET PAY THICKNESS (H) =	10 FT
OIL FORMATION VOLUME FACTOR (Bo) =	1.25 RB/STB

OOIP = (7758*H*A*Ø*(1-Sw))/Bo

OOIP = 111,715 STB

EST. ULT. RECOVERY = 46,920 STB

RECOVERY FACTOR = 42.00%

BARNES "20" #1 PRORATION UNIT

DATA:

PRODUCTIVE ACREAGE (A) =	80 ACRES
AVERAGE POROSITY (Ø) =	6 %
AVG. WATER SATURATION (Sw) =	25 %
NET PAY THICKNESS (H) =	13 FT
OIL FORMATION VOLUME FACTOR (Bo) =	1.25 RB/STB

OOIP = (7758*H*A*Ø*(1-Sw))/Bo

OOIP = 290,460 STB

EST. ULT. RECOVERY = 121,993 STB

RECOVERY FACTOR = 42.00%

ORIGINAL OIL IN PLACE CALCULATIONS

Bonds # 1 Proration Unit

Data:

Productive Acreage	(A)	=	80 acres
Average Porosity	(Ø)	=	6 %
Average Water Saturation	(S_w)	=	25 %
Net Pay Thickness	(H)	=	40 ft.
Oil Formation Volume Factor	(B_o)	=	1.25 RB/STB

OOIP = $[7758 * H * A * Ø * (1 - S_w)] / B_o$
= 893,722 STB

Recovery factor = 42 %

Est. Ult. Recovery = 375,363 STB

Date: 05/27/94
Time: 10: 02: 49

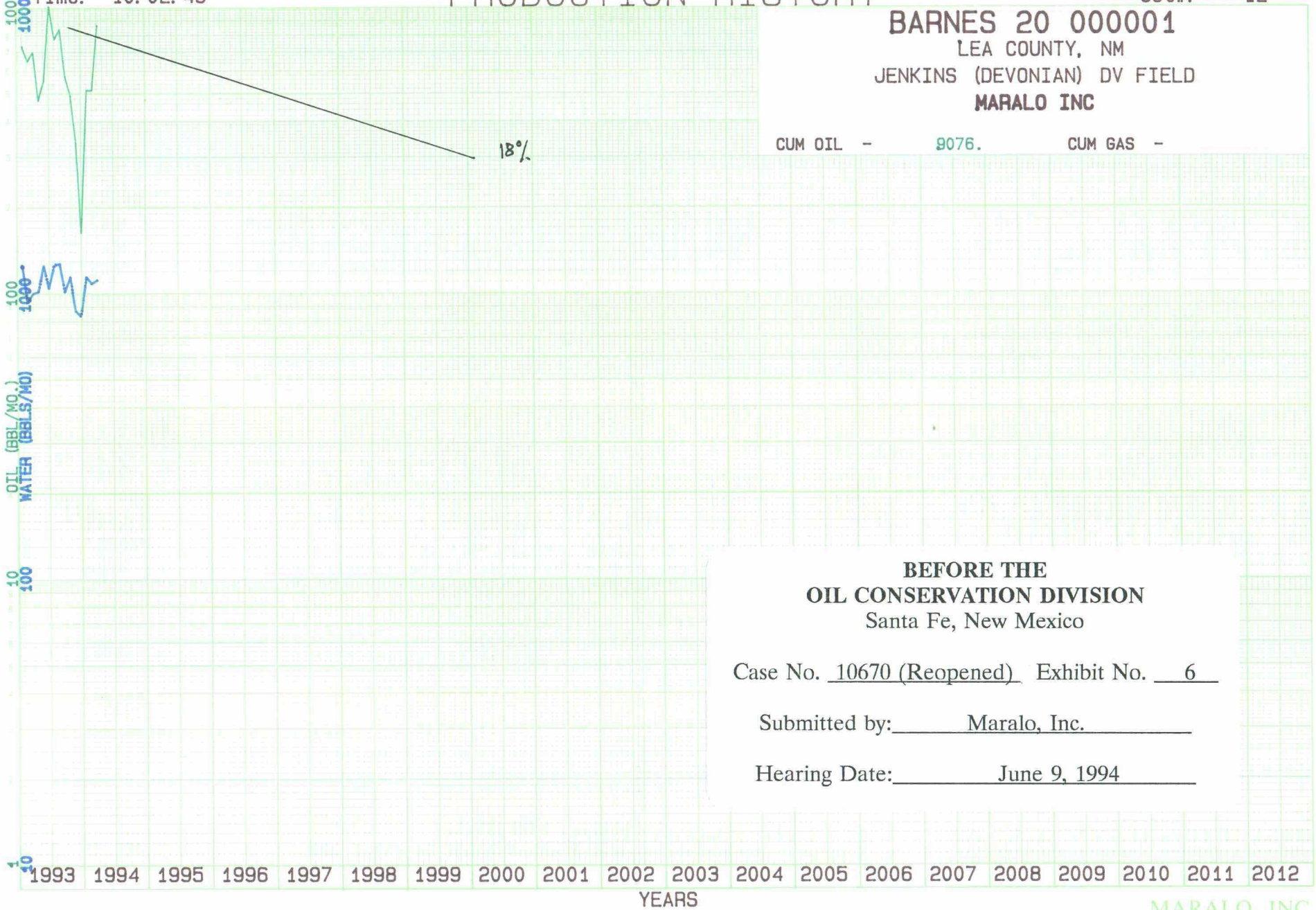
PRODUCTION HISTORY

File: CURVES.DS
Get#: 12

BARNES 20 000001

LEA COUNTY, NM
JENKINS (DEVONIAN) DV FIELD
MARALO INC

CUM OIL - 9076. CUM GAS -



BEFORE THE
OIL CONSERVATION DIVISION
Santa Fe, New Mexico

Case No. 10670 (Reopened) Exhibit No. 6

Submitted by: Maralo, Inc.

Hearing Date: June 9, 1994

MARALO, INC.

Date: 05/27/94
Time: 10: 02: 49

PRODUCTION HISTORY

File: CURVES.DS
Get#: 13

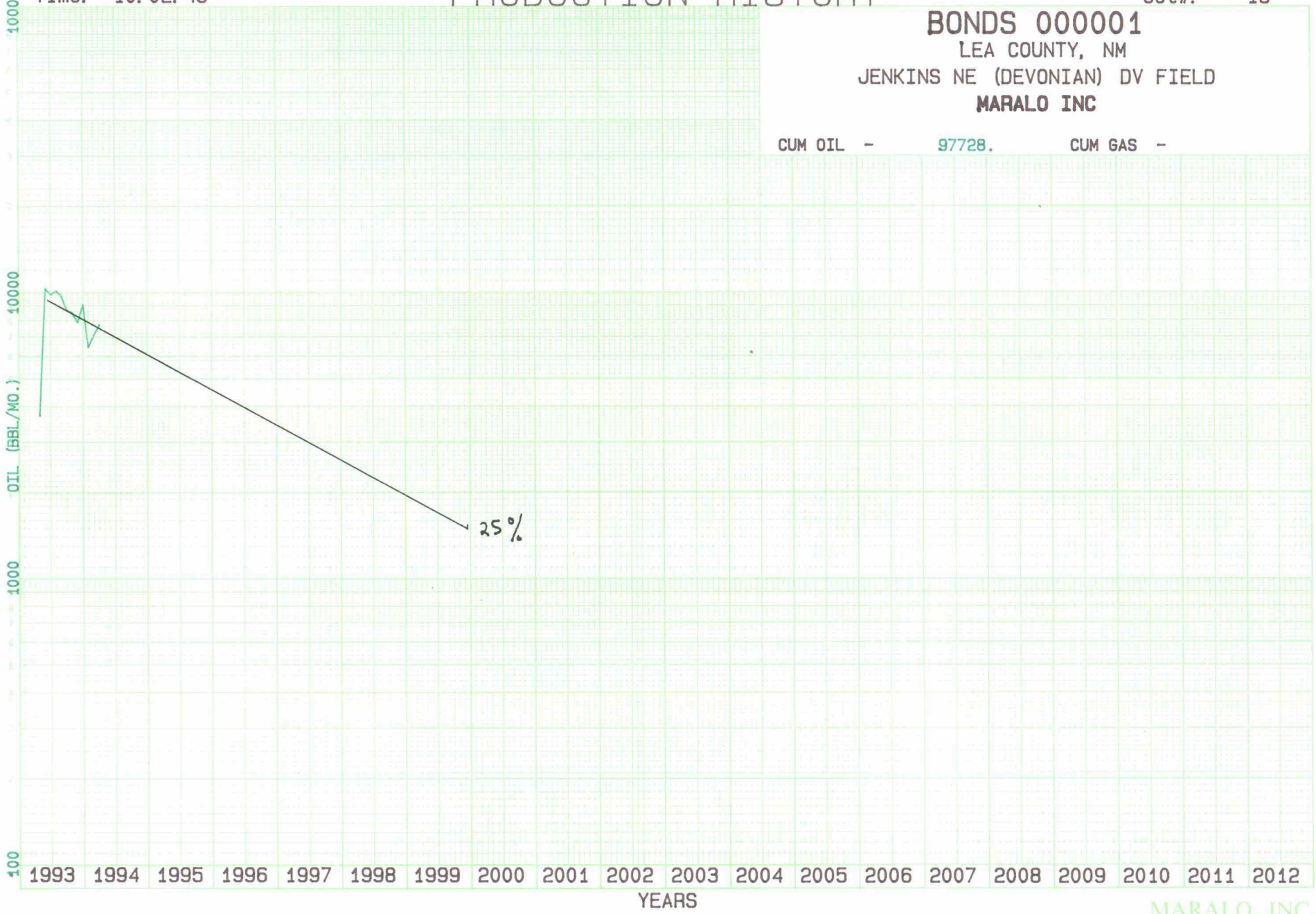
BONDS 000001

LEA COUNTY, NM

JENKINS NE (DEVONIAN) DV FIELD

MARALO INC

CUM OIL - 97728. CUM GAS -



MARALO, INC.

PRODUCTION HISTORY

JENKINS, N.E. (DEVONIAN) FIELD

	BARNES "20" #1			BONDS #1		
	OIL(bbls)	GAS (MCF)	WATER (bbls)	OIL (bbls)	GAS (MCF)	WATER (bbls)
9/92	2,087	0	339			
10/92	1,586	0	1,300			
11/92	767	0	1,069			
12/92	997	0	1,284			
1/93	722	0	1,241			
2/93	639	0	926			
3/93	692	0	997			
4/93	465	0	1,007	3,646	0	0
5/93	550	0	1,249	10,170	0	0
6/93	1,000	0	1,037	9,699	0	0
7/93	764	0	1,261	10,030	0	0
8/93	833	0	1,271	9,604	0	0
9/93	565	0	1,012	8,539	0	0
10/93	485	0	1,139	8,375	0	0
11/93	333	0	863	7,750	0	0
12/93	160	0	827	8,970	0	0
1/94	507	0	1,135	6,341	0	0
2/94	508	0	1,078	7,004	0	0
3/94	854	0	1,114	7,600	0	0
TOTALS	14,514	0	20,149	97,728	0	0

DECLINE CURVE ANALYSIS

BARNES "20" # 1

Remaining Recovery = [Initial Rate - Final Rate] 365/-Ln (1-AY)
Where AY is the exponential decline rate

N = (26 - 5) 365/-Ln (1- .18)
N = 38,624 STB

Ultimate Recovery = Remaining recovery + cumulative recovery

= 38,624 + 9,076

= 47,700 STB

DECLINE CURVE ANALYSIS

BONDS # 1

Remaining Recovery = [Initial Rate - Final Rate] 365/-Ln (1-AY)
Where AY is the exponential decline rate

N = (250 - 5) 365/-Ln (1- .25)
N = 310,846 STB

Ultimate Recovery = Remaining recovery + cumulative recovery

= 310,846 + 97,728

= 408,574 STB

BOTTOM-HOLE PRESSURE DATA

JENKINS, N.E. (DEVONIAN) FIELD

Initial shut-in Bottom-hole pressure (determined by DST in Barnes "20" #1 run 7/31/92) -

4807 psia

Current shut-in Bottom-hole pressure (determined by 70 hr. build-up in Bonds #1 run 4/12/94) -

4699 psia

Current flowing Bottom-hole pressure in Bonds #1 -

4633 psia

BEFORE THE
OIL CONSERVATION DIVISION
Santa Fe, New Mexico

Case No. 10670 (Reopened) Exhibit No. 7

Submitted by: Maralo, Inc.

Hearing Date: June 9, 1994