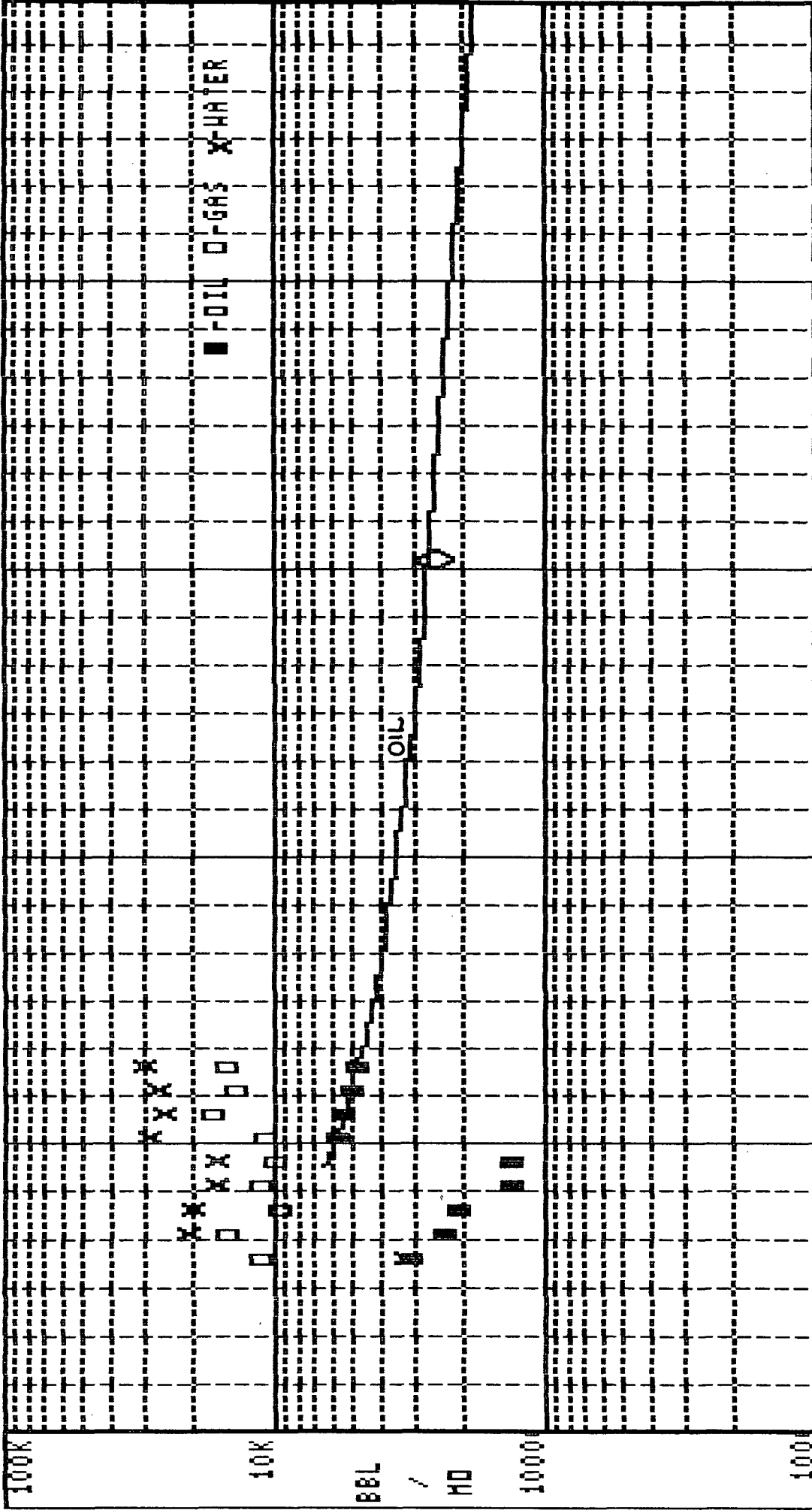




100K
10K
1000
100

1990 1991 1992 1993 1994

Oil
Gas
Water

BEFORE EXAMINER CANTANACH

HILL VIEW AHE #4

OIL CONSERVATION DIVISION

23J 205 24E

YATES PETROLEUM CORP

McKay EXHIBIT NO. 20
CASE NO. 10386

FILE IS D:\DWIGHTS\DAGGER.DMP

LEASE IS HILL VIEW AHE #4

MANUAL DECLINE CALCULATIONS - HYPERBOLIC

CURRENT POT.= 4990 BBL/MO AT MONTH= 3 YEAR=1991

HYPERBOLIC EXPONENT = 1.700

ODP IS " A " = 17 % AT MONTH=12 YEAR=1992

FUTURE CUM. PRODUCTION = 181869 BBL

CUM. PRODUCTION TO DATE= 32529 BBL

TOTAL CUM. PRODUCTION = 214398 BBL

FUTURE FORECASTING

FORECAST (YEAR MONTH)=1992, 1

DECLINE #1 YEAR MONTH DECLINE =1992, 12, 17 %

POTENTIAL = 3434 BBL/MO YEAR=1992 MONTH= 1

FUTURE CUM. PRODUCTION = 141864 BBL

CUM. PRODUCTION TO DATE= 73353 BBL

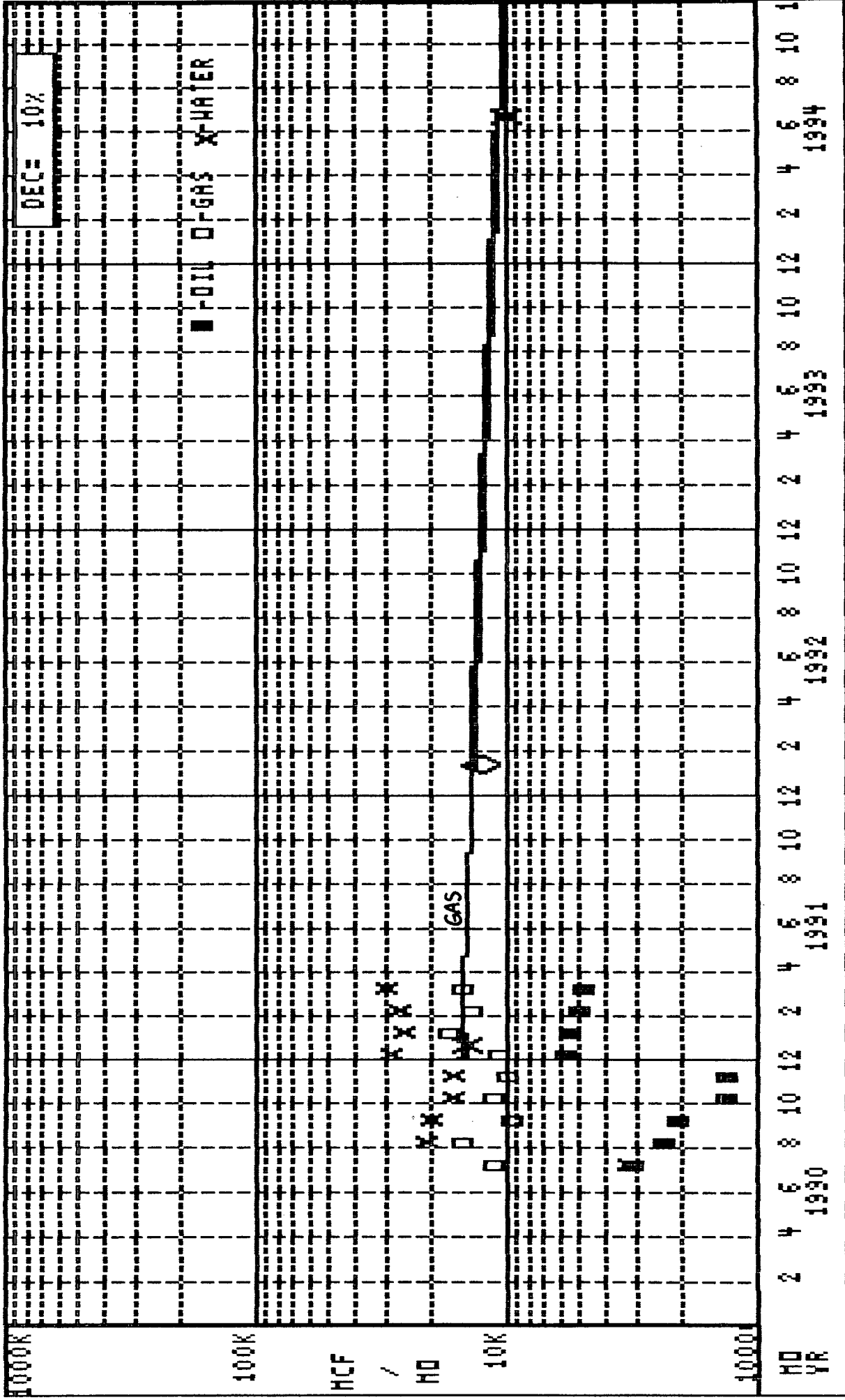
TOTAL CUM. PRODUCTION = 215217 BBL

ECONOMIC LIMIT CALCULATIONS

OPERATING COSTS (\$/MO): 0 \$/MO PRICE OF OIL(\$/B) GAS(\$/M): 0.00 \$

ROYALTIES : 0.00 TOTAL TAXES : 0.00

ECONOMIC LIMIT (BBL/MO (MCF/MO) : 1000 BBL/MO



YATES PETROLEUM CORP HILL VIEW AHE FEDERAL CON #4 237 203 24E

LEASE IS HILL VIEW AHE FEDERAL OOM #4
MANUAL DECLINE CALCULATIONS

CURRENT POT.= 15091 MCF/MO AT MONTH= 3 YEAR=1991
ANNUAL DECLINE RATE = 10 %
FUTURE CUM. PRODUCTION = 1304272 MCF
CUM. PRODUCTION TO DATE= 116035 MCF
TOTAL CUM. PRODUCTION = 1420307 MCF
FUTURE FORECASTING

FORECAST (YEAR MONTH)=1992, 1
DECLINE #1 YEAR MONTH DECLINE =1992, 1, 10 %
POTENTIAL = 13861 MCF/MO YEAR=1992 MONTH= 1
FUTURE CUM. PRODUCTION = 1123066 MCF
CUM. PRODUCTION TO DATE= 260704 MCF
TOTAL CUM. PRODUCTION = 1383770 MCF

ECONOMIC LIMIT CALCULATIONS

OPERATING COSTS (\$/MO): 0 \$/MO PRICE OF OIL(\$/B) GAS(\$/M): 0.00 \$
ROYALTIES : 0.00 TOTAL TAXES : 0.00
ECONOMIC LIMIT (BBL/MO (MCF/MO) : 4000 MCF/MO

VIEW/CHANGE WELL HEADER

FILE IS D:\DWIGHTS\DAGGER.DMP

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=====
A ) OPERATOR NAME   :YATES PETROLEUM CORP
B ) OPERATOR CODE   :806779
C ) LEASE/WELL NAME :HILL VIEW AHE #4
D ) LEASE/WELL CODE :20S24E23J00UP
E ) FIELD NAME      :DAGGER DRAW SOUTH (UPPER PENN)      UP
F ) FIELD CODE      :008020524
G ) RESERVOIR NAME  :UPPER PENN
H ) LOCATION        : 23J 20S 24E
I ) COUNTY NAME     :EDDY
J ) COUNTY CODE     :015
K ) STATE ABBREV.   :NM
L ) FIRST PROD. DATE:9007
M ) LAST PROD. DATE :9103
N ) GAS GATHER      :YPC
O ) CUMUL. GAS PROD.:          116035
P ) OIL GATHER      :PERMI
Q ) CUMUL. OIL PROD.:          32529
R ) 7 DIGIT API NO. :2635600
S ) CUM. WATER PROD.:          200692
T ) NUMBER OF WELLS : 1
=====
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ENTER SELECTION:

TO CHANGE DATA ENTER LETTER (A-Y) OR <RETURN> FOR NEXT PAGE OR <- TO QUIT