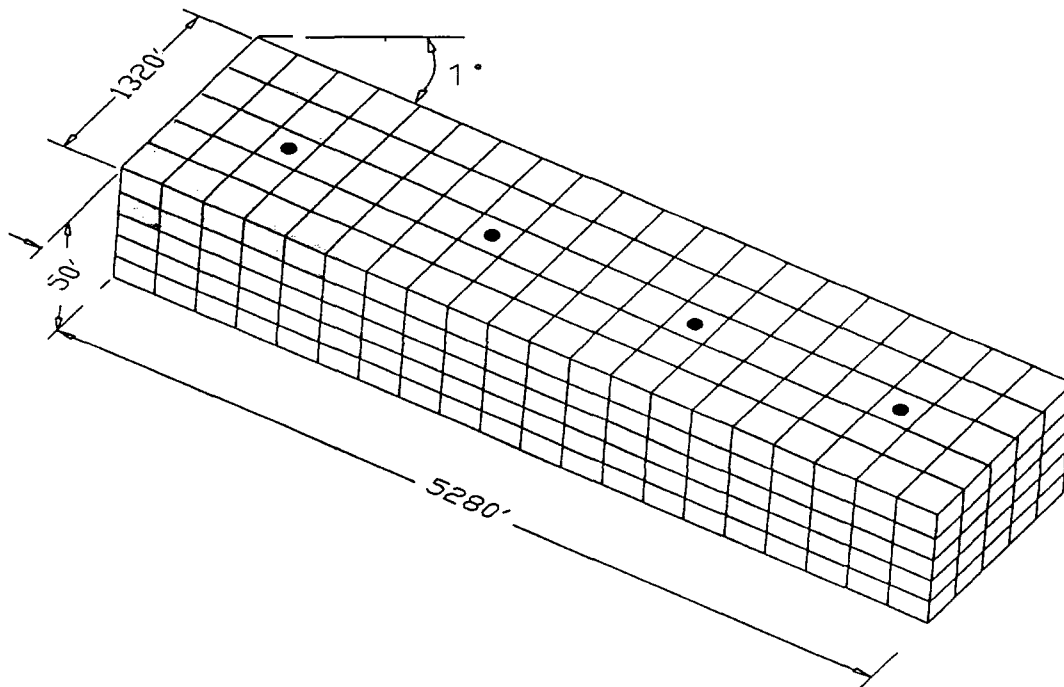


MODEL GRID
EAST LOVING DELAWARE FIELD
EDDY COUNTY, NEW MEXICO



Oryx Energy Company

NMOC D CASE NO. 10226

AUGUST 29, 1991

EXHIBIT NO. 1 (1)

EAST LOVING DELAWARE FIELD
RESERVOIR SIMULATION STUDY

RESERVOIR CONDITIONS AND PROPERTIES

INITIAL PRESSURE	2852 PSIA
INITIAL SATURATION PRESSURE	2852 PSIA
TEMPERATURE	115° F
POROSITY (AVERAGE)	16%
NET PAY (AVERAGE)	50 FT.
IRREDUCIBLE WATER SATURATION (RANGE)	26–30%
RESIDUAL OIL SATURATION	30%
CRITICAL GAS SATURATION (RANGE)	2–12%
ROCK COMPRESSIBILITY	4×10^{-6} 1/PSI
PERMEABILITY (LOG AVERAGE)	3.2 MD

FLUID PROPERTIES

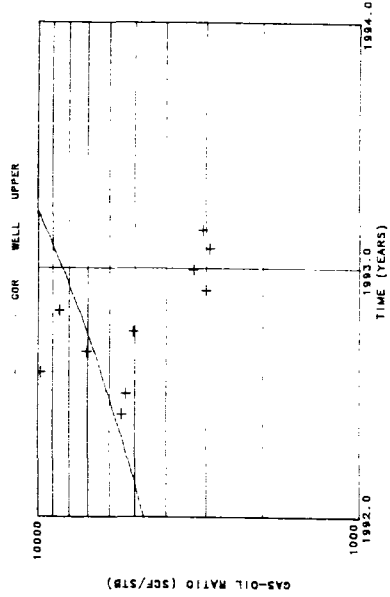
OIL

INITIAL SATURATION PRESSURE	2852 PSIA
INITIAL FVF	1.59 RB/STB
INITIAL DIFFERENTIAL GAS–OIL RATIO	1139 SCF/STB
INITIAL FLASH GAS–OIL RATIO	958 SCF/STB

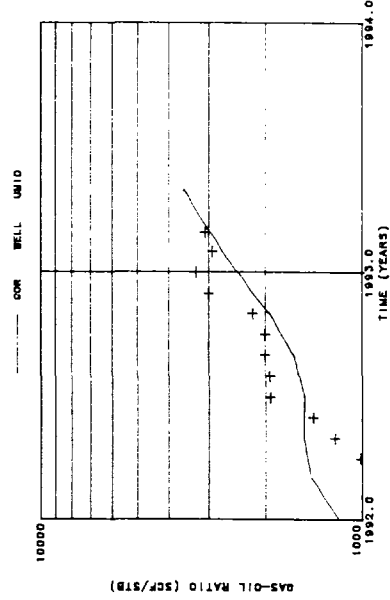
WATER

DENSITY	1.198 GM/CC
FVF	1.005
VISCOSITY	1.07 CP
COMPRESSIBILITY	3.1×10^{-6} 1/PSI

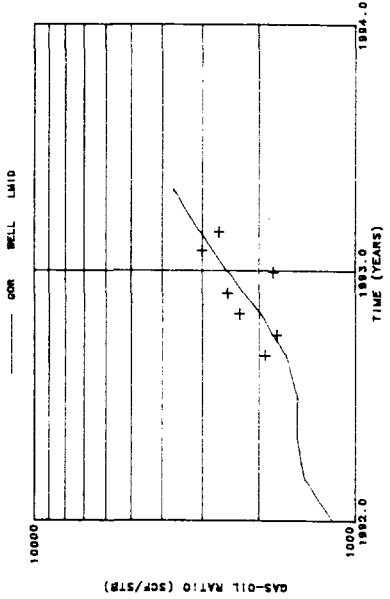
TELEDYNE 2



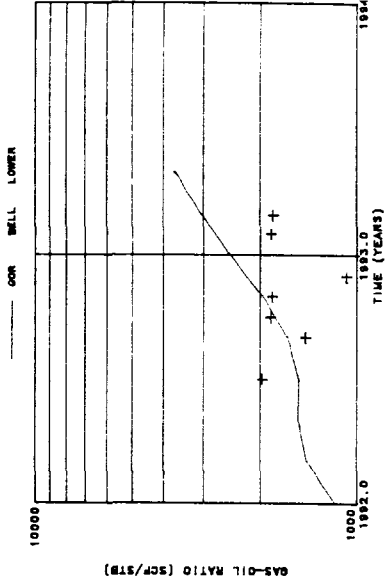
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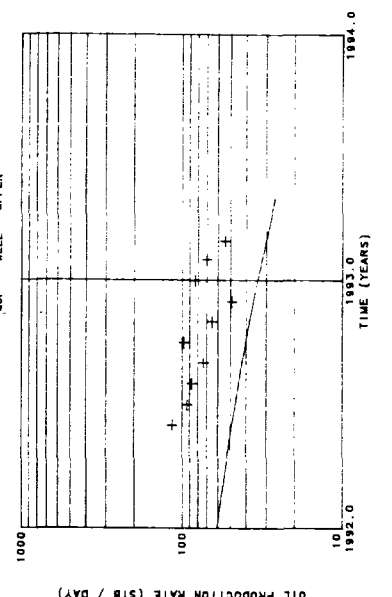
CARRASCO 14-2



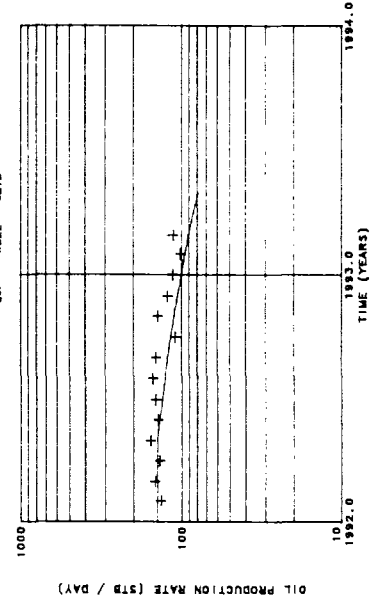
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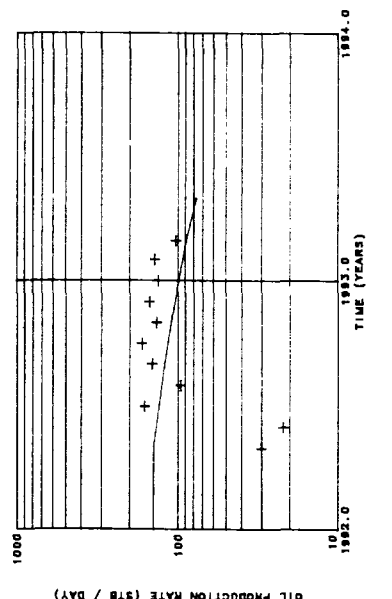
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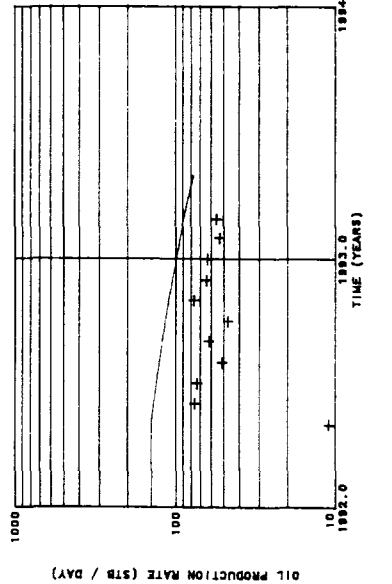
TELEDYNE 1



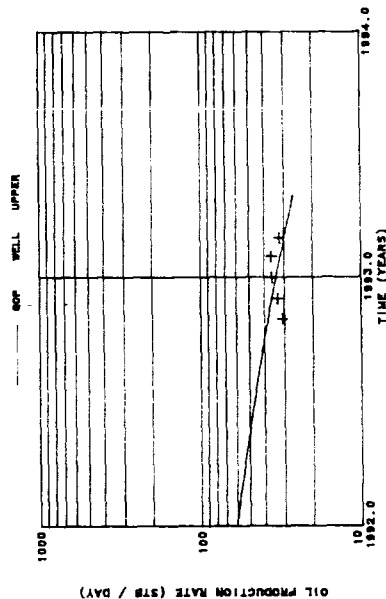
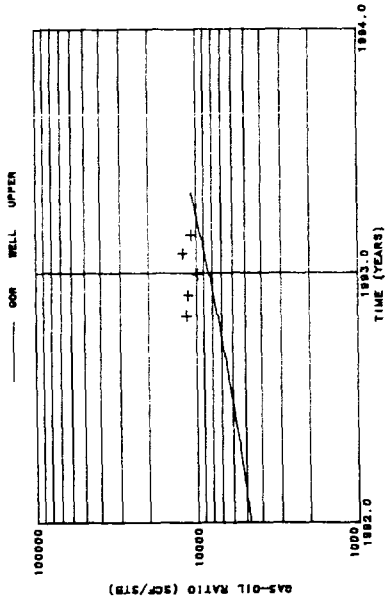
CARRASCO 14-2



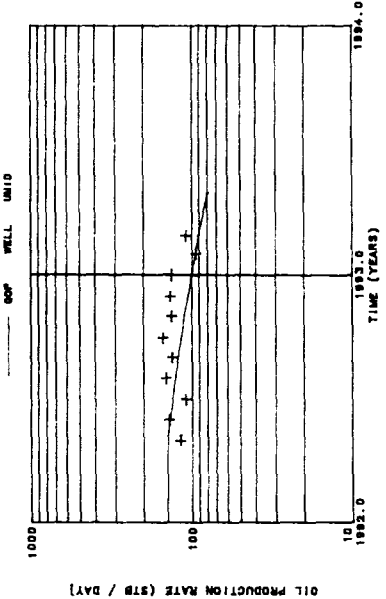
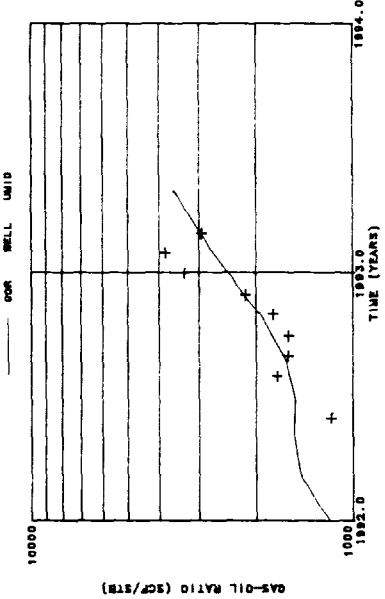
CARRASCO 14-3



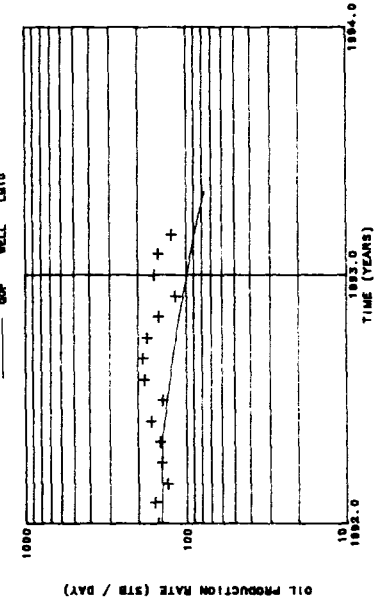
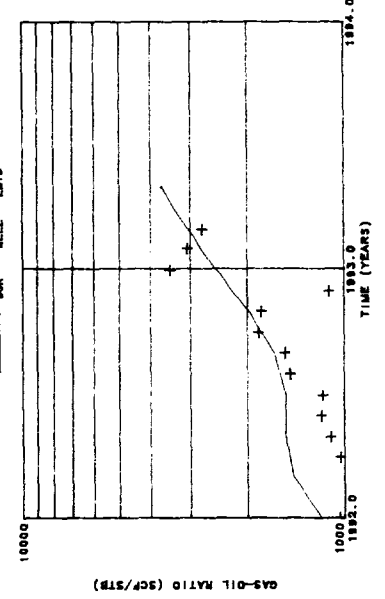
WITT 1



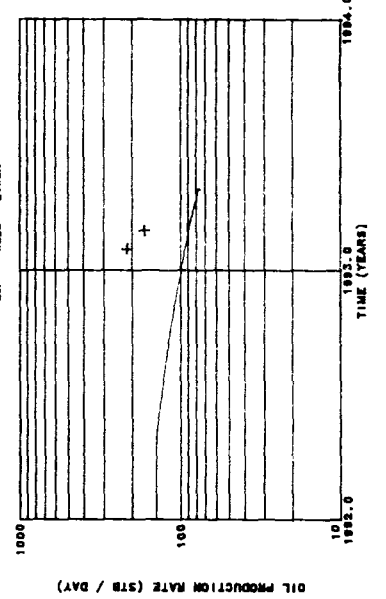
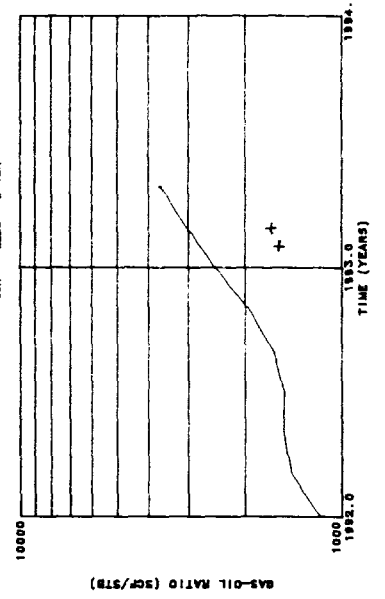
TRACHTA 1

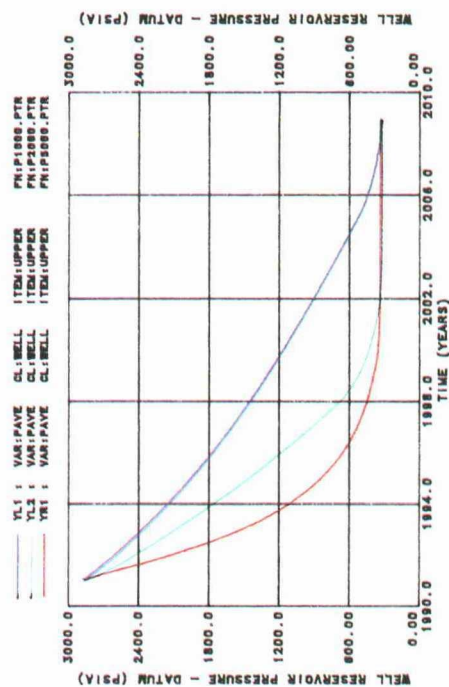
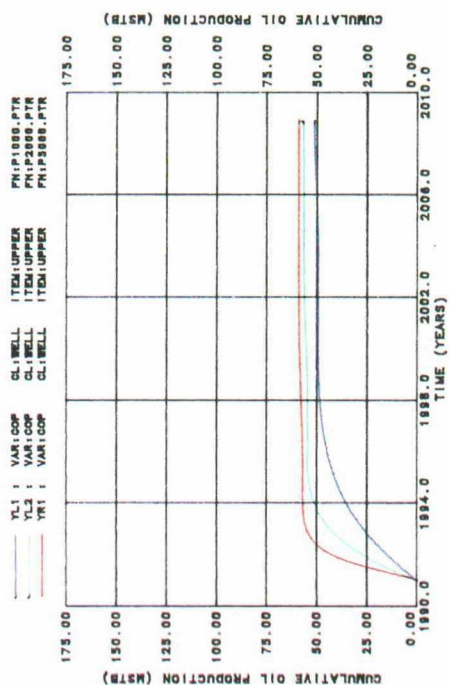
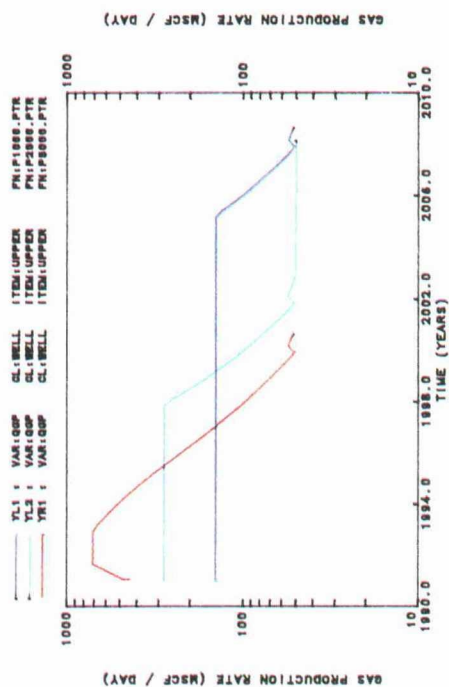
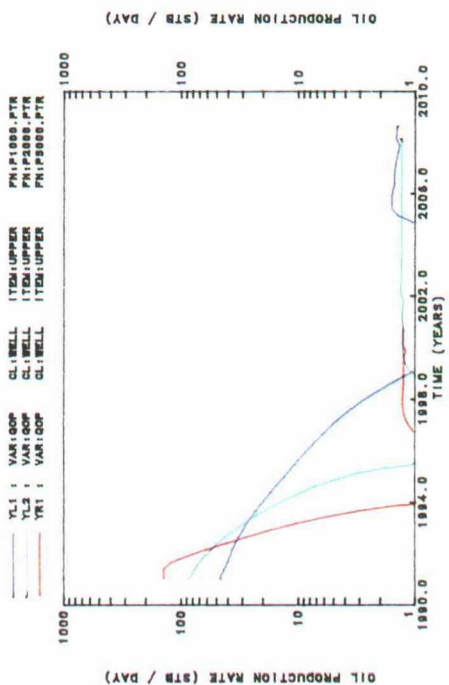


RG A 2



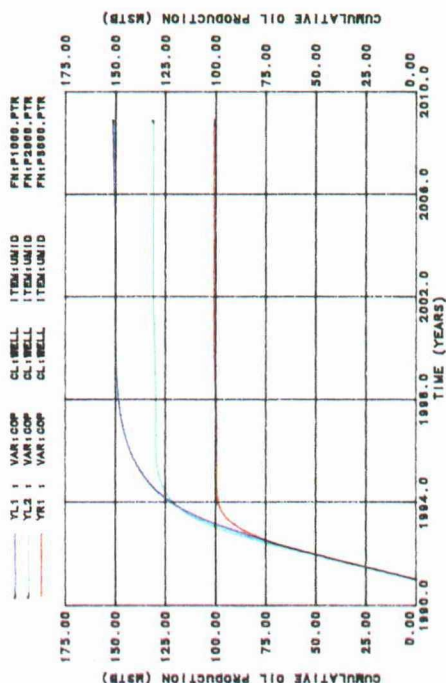
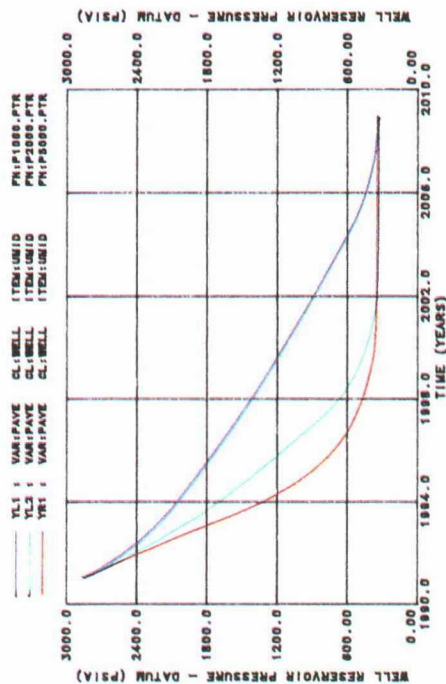
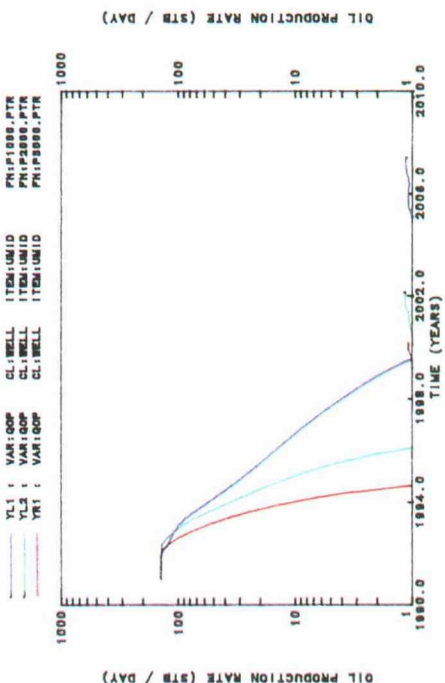
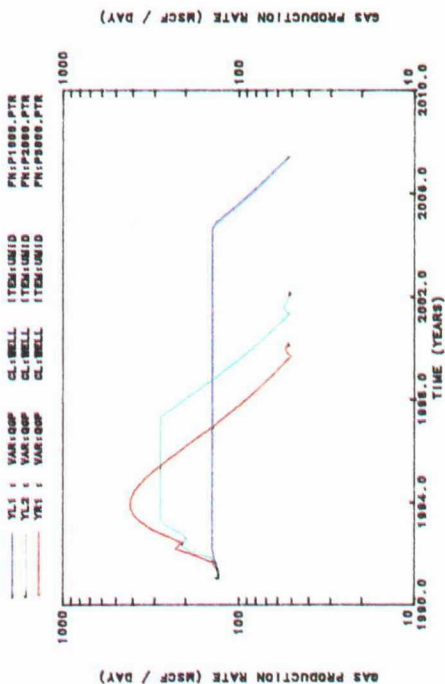
REID 1





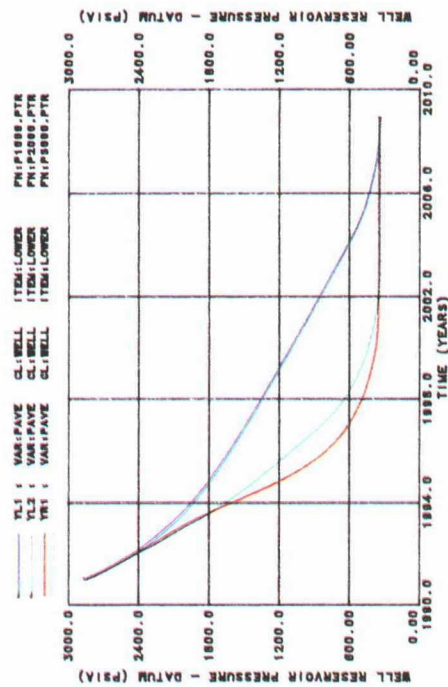
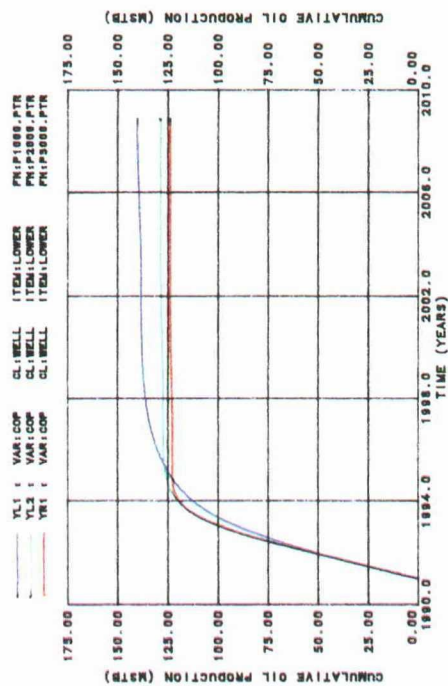
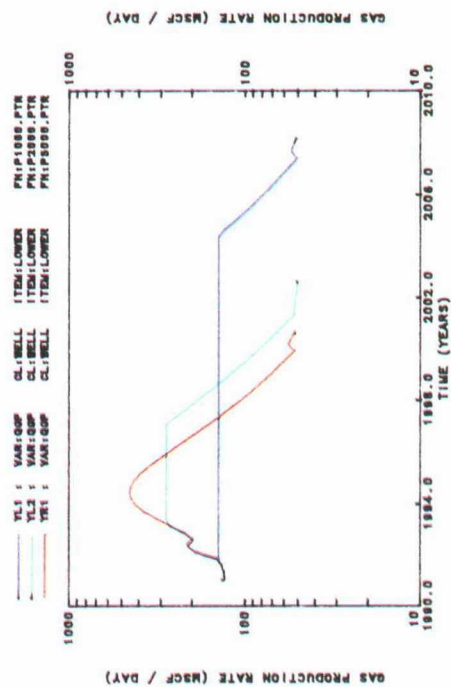
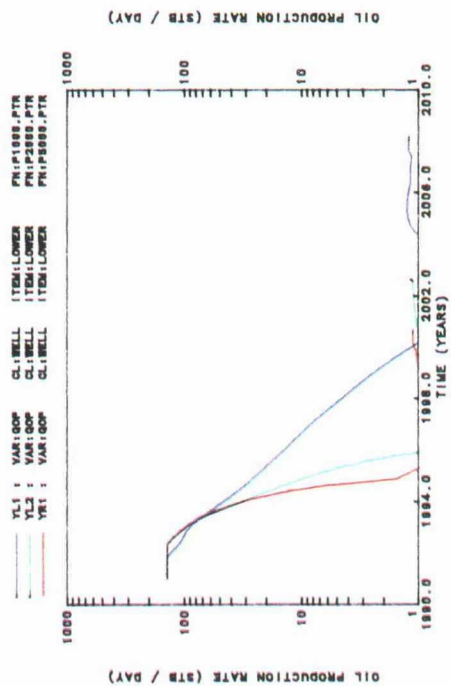
UPPER WELL

MODEL FORECAST



UPPER MIDDLE WELL

MODEL FORECAST



LOWER WELL MODEL FORECAST

EAST LOVING DELAWARE FIELD
MODEL RESULTS - OIL ALLOWABLE OF 142 BOPD
OIL RECOVERY VS GOR ALLOWABLE

