MANCOS POOL

Reservoir Simulation Study

ASSUMPTIONS

RESERVOIR CONDITIONS AND PROPERTIES

° Initial Pressure	1534 psia	@ +370'
° Initial Saturation Pressure	1534 psia	(C.O.U. L-11)
° Temperature	162° F	
° Porosity	1.0%±	
° Net Pay	2-30' Zones	(1 zone Modeled)
° Initial Water Saturation	10%	
° Irreducible Water Saturation	10%	
° Residual Oil Saturation	10%	
° Critical Gas Saturation	1.0%	
° OOIP	3000 STB/acre	(BMG Calculation, Others)
° Rock Compressibility	10×10^{-6} 1/psi	(Gavilan Tech. Comm., Mobil Lindrith B Unit #38)
° Relative Permeability	See Exhibit 3	
° Permeability	10 Darcy-Feet	(BMG, Sun Calculations)

FLUID PROPERTIES

Oil

° Obtained from C.O.U. L-11)	See Exhibit 4
° Initial Saturation Pressure	1534 psia
° Initial FVF	1.297
° Initial Solution Gas-Oil Ratio	478 SCF/STB

Water

° Density	1.021 gm/cc
° FVF	1.021
° Viscosity	0.44 CP
° Compressiblity	3.2×10^{-6} 1/psi

BEFORE THE
OIL CONSERVATION COMMISSION
Case No. 4

Exhibit 2