Calculation of OOIP

Material Balance Method Solution-Gas Drive Reservoir Below Bubblepoint

$$N_{p} \left[B_{t} + B_{g} \left(R_{p} - R_{si}\right)\right]$$

$$N = B_{ti} + mB_{0i} \left(B_{g}/B_{gi} - 1\right)$$

Where

Np = cumulative oil production

Bt = two-phase formation volume factor

Bg = gas formation volume factor

Rp = cumulative produced GOR

Rsi = initial solution GOR

Bti = initial two-phase formation volume factor

m = PV of gas cap/PV of oil zone

Boi = initial oil formation volume factor

Bgi = initial gas formation volume factor

Reference: Petroleum Engineering Handbook, (Society of Petroleum Engineers, Richardson, Texas, 1987), pg. 37-6

BEFORE THE OIL CONSERVATION DIVISION

Santa Fe, New Mexico

Case No. <u>10984</u> Exhibit No. <u>6</u> Submitted by: <u>Texaco Exploration and</u> Production Inc.

Hearing Date: May 26, 1994

BEFORE THE OIL CONSERVATION DIVISION

Santa Fe, New Mexico

Case No	10984	Exhibit No.	6
Submitted by:	Texaco 1	Exploration ar	ıd
Production Inc.			
Hearing Date:		May 26, 199)4