VOLUMETRIC RESERVE CALCULATIONS EXAMPLE WELL: BARBARA FEDERAL NO. 1 NORTH DAGGER DRAW

Completion: 8/71

Plugged & Abandoned: 12/86

Cumulative Oil Production: 272 MBO

Oil Reserves

Volumetric Equation w/1976 Parameters: (1)

Oil Reserves

270 MBO

Ø

= 6% (from porosity log)

Ac

= 160 acres

RF

= 30% (Maximum recovery factor for solution

gas drive)

 S_w

= 50%

Н

= 50' (perfed interval)

Bo

= 2.0 (volatile oil)

(2) Volumetric Equation w/1991 Parameters:

Oil Reserves

314 MBO

= 12% (visual estimate from CBIL)

Ac

= 160 acres

RF

= 30%

 S_w

= 50%

H

= 75'

Во

= 2.0

BEFORE EXAMINER OIL CONSERVATION DIVISION __EXHIBIT NO._13____ CASE NO. 10221 Submitted by Conoco Inc. Hearing Date 2-7-91