

Yates Petroleum Company

Runnells No. 3 Well

RFL 990110

SUMMARY OF PVT DATA

Reservoir Conditions

Original Reservoir Pressure	4150	psig
Reservoir Temperature	173	°F

Pressure-Volume Relations

Saturation Pressure	3803	psig
Avg Single-Phase Compressibility	23.23	E-6 v/v/psi (6000 to 3803 psig)

Liquid Phase Data (at 3803 psig and 173 °F)

Solution Gas/Oil Ratio	2779	scf / bbl of residual oil at 60 °F
Density of Reservoir Fluid	0.5372	gm/cc
Relative Oil Volume	2.650	bbl / bbl of residual oil at 60 °F

Reservoir Fluid Viscosity

0.196 cp at 3803 psig and 173 °F

Separator Test Data

Separator Conditions		Formation Volume Factor (A)	Total Solution Gas/Oil Ratio (B)	Tank Oil Gravity (°API at 60 °F)
psig	°F			
350	70	2.183	2,038	45.8

(A) Barrels of oil at 3803 psig and 173 °F per barrel of stock tank oil at 60 °F.

(B) Total standard cubic feet of gas per barrel of stock tank oil at 60 °F.

BEFORE THE OIL CONSERVATION DIVISION

Santa Fe, New Mexico

Case No. 12450 Exhibit No. 3

Submitted by:

Yates Petroleum Corporation

Hearing Date: July 27, 2000

CORE LABORATORIES