AVERAGE RESERVOIR AND FLUID PROPERTIES LOVINGTON NORTHEAST PENN FIELD LEA COUNTY, NEW MEXICO

Depth

Net Pay

Porosity

Permeability

Connate Water

Bottom Hole Pressure, Original

Bubble Point Pressure

Bottom Hole Temperature

Oil Gravity

Formation Volume Factor

Reservoir Energy

Areal Extent

RESERVOIR CALCULATIONS

Reservoir Volume (Planimetered from Isopach map) = 29,821 ac.-ft.

Ultimate Recovery (Estimated from decline curves) = 2,637,800 barrels oil

Original Oil in Place = (7758) (29,821) (.085) (1-.30) 1.45 = 9,493,400 barrels oil

Recovery Factor

$= \frac{2,637,800}{9,493,400}$ ¥100 = 27.8%

Average Drainage Area 1320 = 132 acres per well NORMAL RECOVERY FACTOR FOR SOLUTION-GAS DRIVE RESERVOIR: 17-20% By: B. C. Sinclair 10 would . Date: 8-17-70

YNSERVATION COMMISS

11,300

23 feet

1-100 md

4000 psig

3000 psig

1550 F

440 API

1.45 RB/STB

1320 acres

Solution-Gas Drive

8.5%

30%

EXAMINER NUT