

DRAINAGE AREA AND ECONOMIC CALCULATIONS
DOS HERMANOS MORROW GAS POOL
EDDY COUNTY, NEW MEXICO

DRAINAGE AREA CALCULATIONS

Reserves from BHP/Z vs. Cum. Prod. Curve = 9.5 BCF

Gas Recovery per Acre Foot = 550 MCF

Net Effective Pay = 14 feet

Drainage Area of Emperor Oil Co. Fed. Gas Com. No. 1 =

$$\frac{9,500,000 \text{ MCF}}{550 \text{ MCF/Ac-Ft} \times 14 \text{ Ft}} = 1,234 \text{ acres}$$

$$640 \text{ Acre Reserves} = \frac{640 \text{ Acres}}{1,234 \text{ Acres}} \times 9.5 \text{ BCF} = 4.9 \text{ BCF}$$

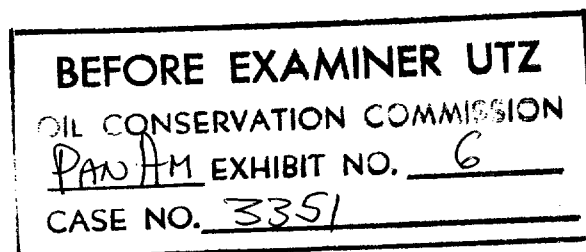
$$320 \text{ Acre Reserves} = \frac{320 \text{ Acres}}{1,234 \text{ Acres}} \times 9.5 \text{ BCF} = 2.5 \text{ BCF}$$

ECONOMIC CALCULATIONS

Return on Investment for 640 acre well = 2.00
(from chart)

Return on Investment for 320 acre well = 0.53
(from chart)

Payout = 35 months at 1.5 MMCFD



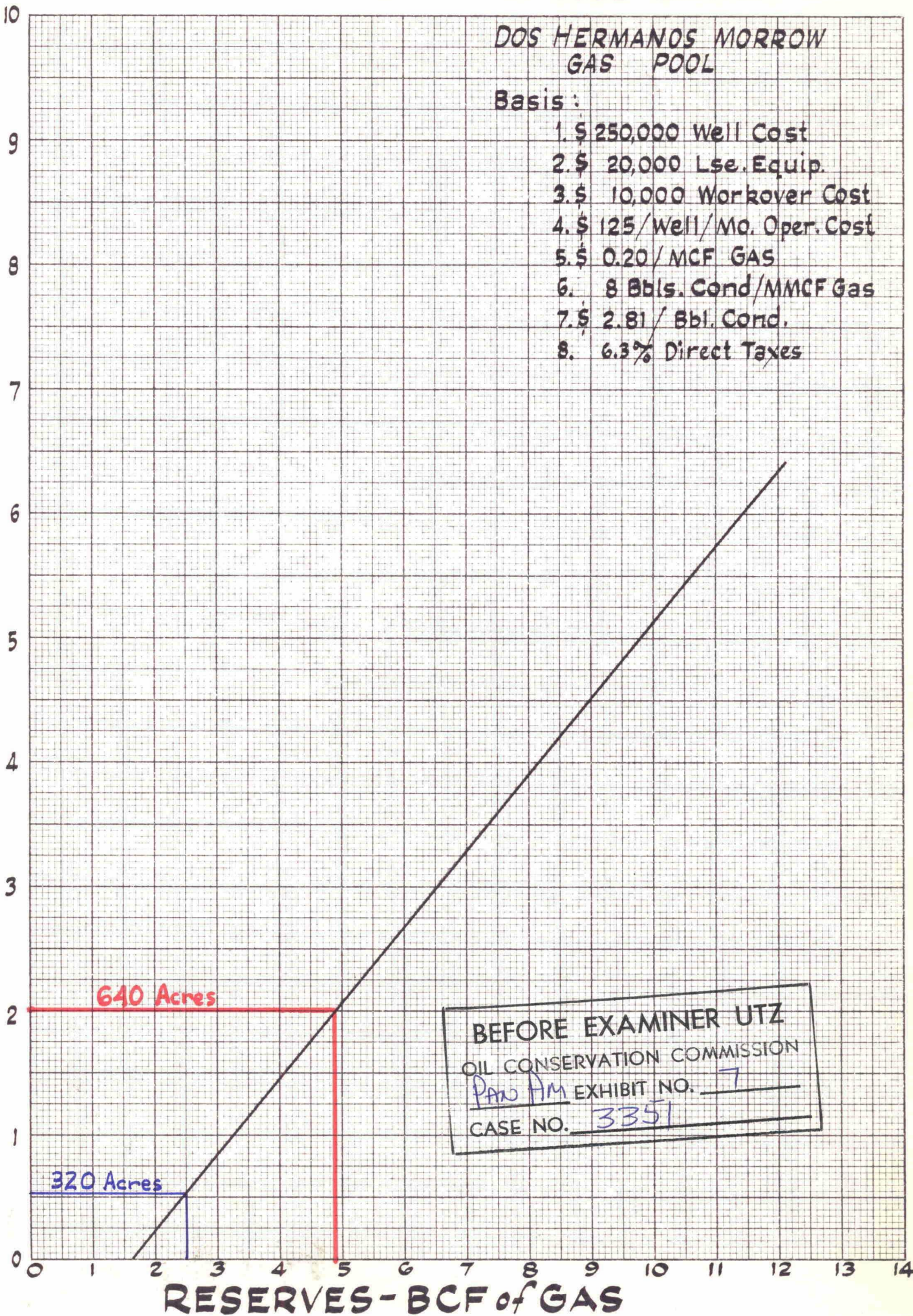
ROI CHART

RETURN ON INVESTMENT

DOS HERMANOS MORROW
GAS POOL

Basis:

1. \$ 250,000 Well Cost
2. \$ 20,000 Lse. Equip.
3. \$ 10,000 Workover Cost
4. \$ 125/Well/Mo. Oper. Cost
5. \$ 0.20/MCF GAS
6. 8 Bbls. Cond/MMCF Gas
7. \$ 2.81/Bbl. Cond.
8. 6.3% Direct Taxes



BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION
Paw Am EXHIBIT NO. 7
CASE NO. 3351