Case Number 3206
Exhibit Number 4
March 9, 1966

AREA DRAINAGE COMPUTED FROM PROJECTED RECOVERY

HIGH PLAINS UNIT WELL NO. 1
HIGH PLAINS PENN POOL

Reservoir Volume Calculations

Porosity (Sonic Log)	10%
Water Saturation (Calculated)	32%
Net Effective Pay	25 feet
Recovery Factor (Assumed)	27%
Formation Volume Factor	1,653
Ultimate Recovery (Projected from Pressure versus Cummulative Production)	286,000 barrels

Oil in Place, Barrels per Acre-Foot

$(7758)(.10)(1.00-0.32)(1/1.653) = 319$ bbls/ac-ft

Recoverable Oil, bbls per acre-foot

$(319) \times (0.27) = 86$ bbls/ac-ft

Oil in Place, Barrels per Acre

$(310) \times (25) = 7950$ bbls/acre

Recoverable Oil, Barrels per Acre

$(7950) \times (0.27) = 2140$ bbls/acre

	40 Acres	80 Acres	160 Acres
Oil in Place, Barrels	318,000	635,000	1,270,000
Recoverable Oil, Barrels	85,000	170,000	340,000
Recoverable Gas, MMCF	153	306	612

Actual Area Drained from the Subject Well

$$X = \frac{286,000}{2140} = 134 \text{ Acres}$$

BEFORE EXAMINER UTZ
OIL CONSERVATION [illegible]
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