

OIL RECOVERY CALCULATIONS

EAST GEM-YATES POOL
LEA COUNTY, NEW MEXICO

Porosity	- 8%
Water Saturation	- 28%
RVF	- 1.02
Net Pay	- 16 feet

$$\text{Oil in Place} = \frac{7758 \times 0.08 \times (1-0.28)}{1.02}$$

$$= 440 \text{ Barrels per Acre Foot}$$

$$= 16 \times 440$$

$$= 7040 \text{ Barrels per Acre}$$

$$= 40 \times 7040$$

$$= 281,600 \text{ Barrels per 40 Acre Unit.}$$

$$\text{Production to Date} = 116,000 \text{ Barrels}$$

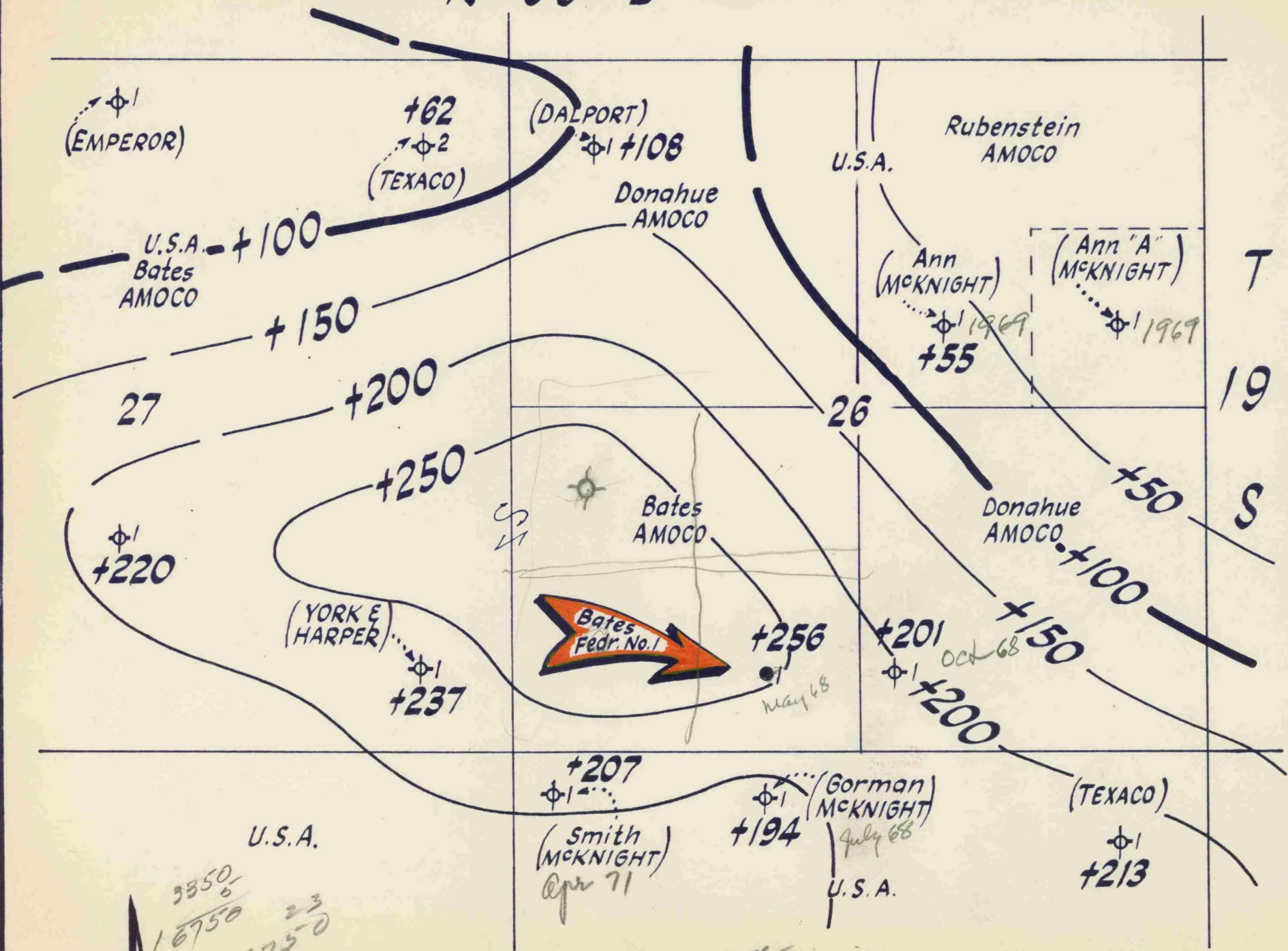
$$\text{Recovery to Date} = 116,000/281,600$$

$$= 41.2\% \text{ of Oil in Place.}$$

TBM
12-30-71

BEFORE EXAMINER NUTTER	
OIL CONSERVATION COMMISSION	
Amoco	REPORT NO. 6
CASE NO.	4640

R - 33 - E



June 1968
Co 3795
discovery allowance
hearing

BEFORE EXAMINER NUTTER	
OIL CONSERVATION COMMISSION	
Amoco's	EXHIBIT NO. <u>2</u>
CASE NO.	<u>4640</u>

Top of Lower Yates
Carbonate Pay
contour interval = 50'
EAST GEM-YATES POOL
Lea Co. New Mexico
scale 1" = 1000'
12 - 71