

Original Oil in Place Calculation

Northeast Caudill Field

Lea County, New Mexico

$$OOIP = \sum_{i=1}^{i=8} \left[\frac{7758 * A_i * (\phi h)_i * (1-S_w)}{B_o} \right]$$

OOIP: Original Oil in Place - stock tank bbls.

7758: Units conversion factor

A: Productive area - acres

ϕh : Porosity - feet above oil water contact

Sw: Water saturation - 33%

Bo: Original formation volume factor - 1.451 Reserv
bbls./stk. tnk. bbl.

i: Interval number - one thru eight

OIL OIL
8793
Union Texas
1-7-86

Original Oil in Place Calculation Data

Northeast Caudill Field

Lea County, New Mexico

<u>Interval</u>	<u>Øh</u>	<u>A</u>	<u>OOIP</u>
1	0.25	39.5	35,400
2	0.75	43.5	116,900
3	0.875	23.0	72,100
4	1.25	57.6	257,900
5	1.75	26.2	164,200
6	2.25	10.8	87,000
7	2.75	4.5	44,300
8	3.0	1.5	16,100
Total		207 Ac	793,900 STBO

EXPLORE THE OIL CONCENTRATION COMMISSION Santa Fe, New Mexico	
Case No. <u>8793</u>	Sub No. <u>6</u>
Sponsored by <u>UNION TEXAS</u>	
Filing Date <u>1-7-86</u>	