Phillips Petroleum Company
Shipp State-A Well No. 1
Reserves Calculation

Volumetric Formula:

$$(7757 \text{ bbl/ac ft})(A)(h)\frac{(\phi)(1-Sw)(Recovery)}{Bo} = \text{Recoverable Oil}$$

Definitions:

7757 bbl/ac ft	Conversion Factor
A	Reservoir Area in acres
h	Reservoir thickness in feet
ϕ	Reservoir porosity (decimal)
Sw	Reservoir water salturation (decimal)
Recovery	Fraction of oil in place which is producable
Bo	Oil formation volume factor

Data for Phillips Shipp State-A No. 1:

$(A)(h)(\phi)$ = 59.1 ac ft	(Planimetered from ϕh map)
Sw = 0.25	(based on Shipp Area well logs)
Recovery = 0.42	(based on Casey Strawn Pool recovery)
Bo = 1.40	(based on Shipp Strawn well data and Standing's Correlation)

Calculation:

$$\frac{(7757)(59.1)(1-0.25)(0.42)}{1.40} = 103{,}100 \text{ bbls oil recoverable on Phillips Shipp State-A Lease}$$

8.5 month payout

BEFORE EXAMINER CATANACH
OIL CONSERVATION DIVISION
Phillips EXHIBIT NO. 6
CASE NO. 9036