## Middle San Andres Volumetric Analysis

(Volume, ac-ft) \* (bbl/ac-ft) \* (1-Sw) \* (Porosity)
OOIP = \_\_\_\_\_\_

 $Bo_i$ 

Volume, ac-ft - See Planimeter Calculation Sheet for Middle San Andres

bbl/ac-ft - 7,758 bbl/ac-ft

Sw - 43.88% (from CORE Data, See Core sheet)
Porosity - 4.5% (from CORE data, See Core Sheet)

 $Bo_i$  - 1.27 initial formation volume factor: (from CORE data and

Standing Correlation Chart, See Core Sheet)

 ${\sim}Bo_i$  data estimated from Standing Correlation Chart using, Reservoir Temperature of 100deg F, GOR = 700scf/bbl, Oil Gravity = 34deg API

(58,175.6) \* (7,758) \* (1 - 0.4388) \* (.045) OOIP =

1.27

OOIP = 8,974,641 BO

Primary Recovery Factor - 12%

## Recoverable Oil = 1,076,956 BO

## Lower Middle San Andres Volumetric Analysis

(Volume, ac-ft)\*(bbl/acreft)\*(1-Sw)\*(Porosity)
OOIP =

 $Bo_i$ 

Volume, ac-ft - See Planimeter Calculation Sheet for Lower Middle San Andres

bbl/ac-ft - 7,758 bbl/ac-ft

Sw - 43.88% (from CORE Data, See Core sheet)
Porosity - 4.5% (from CORE data, See Core Sheet)

Bo<sub>i</sub> - 1.27 initial formation volume factor: (from CORE data and

Standing Correlation Chart, See Core Sheet)

 ${\sim}Bo_i$  data estimated from Standing Correlation Chart using, Reservoir Temperature of 100deg F, GOR = 700scf/bbl, Oil Gravity = 34deg API

(187,200.49)\*(7,758)\*(1 - 0.4388)\*(.045)

OOIP = \_\_\_\_

1.27

OOIP = 28,879,070 BO

Primary Recovery Factor - 12%

Recoverable Oil = 3,465,488 BO

Case No. 20253

SEGURO OIL & GAS Exhibit #13 Combined Recoverable OIL from both Middle and Lower Middle San Andres is  ${\bf 4,542,444}$  BO

108 Well Locations on 20 acre spacing would yield an AVERAGE per WELL ESTIMATED ULTIMATE RECOVERY of <u>42,059 BO per well</u>.

54 Well Location on 40acre spacing would yield an AVERAGE per WELL ESTIMATED ULTIMATE RECOVERY of **84,119 BO per well**.

Using a recoverable oil range of 42,059 - 84,119 BO per well and an AFE cost of \$857,000.00, the F&D costs fall in a range between \$20.38 - \$10.19 per barrel.