

Exhibit #

Reservoir Volume Calculations

Santa Fe's Portion of the Reservoir Volume

- Stand-up proration units =  $[.5 \times (6263+3627)] + [.5 \times (4587+1943)]$   
= 8210 Acre-ft
- Lay-down proration units =  $[1.0 \times (3627+1943)]$   
= 5570 Acre-ft

Exxon's Portion of the Reservoir Volume

- Stand-up proration units =  $[0.25 \times (6263+3627)] + [0.375 \times (4587+1943)]$   
= 4921 Acre-ft
- Lay-down proration units =  $[0.625 \times (6263+4587)]$   
= 6781 Acre-ft

Conclusions

- Santa Fe has 5570 acre-ft of reservoir volume below their acreage.
- Exxon's portion of the reservoir volumes would decrease 1860 acre-ft, or 27%, if Santa Fe is allowed to stand-up the proration units.
- Stand-up proration units will give Santa Fe a reservoir volume of 8210 acre-ft, a 47% increase.
- Exxon's, Spectrum 7's, and Read & Steven's correlative rights would be violated by stand-up proration units.

BEFORE EXAMINER STOOVER OIL CONSERVATION DIVISION	
EXXON	EXHIBIT NO. <u>4</u>
CASE NO.	<u>8820</u>