

INJECTED WATER VOLUME CALCULATIONS
STATE "DQ" WELL NO. 3
PROPOSED SWDW

Remaining life State "DQ" lease (7-1-85 to 7-1-95)	10 years
Average daily injection volume	200 BWP
Total injection volume over life of well	730 MBW
Total ϕ h (interval 7272'-7310')	4.73 ϕ -ft

Equivalent area of displaced reservoir fluid by injection volume

Assume 60% movable pore volume

$$A = \frac{(2) \text{ Inj. vol.}}{7758 (.60) \phi h} = 66 \text{ Ac. w/r of } \underline{960 \text{ ft.}}$$

Assume 100% movable pore volume

$$A = \frac{(2) \text{ Inj. vol.}}{7758 \phi h} = 40 \text{ Ac. w/r of } \underline{745 \text{ ft.}}$$

Distance from State "DQ" Well No. 3 to nearest offset Wolfcamp producers

Amoco State "DQ" Well No. 1 - 2000'
Exxon "CR" State Well No. 1 - 2600'

007/rr

BEFORE EXAMINER STOGNER	
OIL CONSERVATION DIVISION	
Amoco	EXHIBIT NO. <u>8A</u>
CASE NO.	<u>8767</u>