SOUTH DAGGER DRAW - UPPER PENN

SUMMARY OF VOLUMETRIC ANALYSES OF FORMATION BELOW -4001 FEET

Location	Acres	Acre-Feet of Porosity	OOIP, STBO*
NW/4,25,20S,24E	166.5	479.41	1,549,693
NE/4,25,20S,24E	115.32	126.85	410,043
SW/4,25,20S,24E	160	447.35	1,446,059
SE/4,25,20S,24E	155.57	248.91	804,602

* Original oil in place, stock tank bbls oil = 3232.5 bbl/ac ft por

RECOVERY FACTORS - BASED ON 160 ACRE DRAINAGE

Well and Location	Ult Recov, Bbls Oil	Recovery Factor*
Hill View #2, 23G	375,000	0.29
McKay, NW/4 25	386,000	0.25
Saguaro #1, 26F	39,000	0.04
Yates loc., SW/4 25	57,842	0.04

$$* \text{ RF} = \frac{\text{Recov BO} * \text{FVF}}{\text{Por} * \text{Ft} * \text{Ac} * \text{So} * 7758}$$

RF = Recover Factor, decimal percent of original oil in place
FVF = Formation Volume Factor for shrinkage = 1.56
So = Saturation of oil in formation, decimal percent of pore space (.70 for sec 23 & 26, .65 for sec 25)
7758 = Barrels per acre-foot of volume

BEFORE EXAMINER CATANACH
OIL CONSERVATION DIVISION
McKay EXHIBIT NO. 17
CASE NO. 10386