middle Morrow sand in order to produce commercial quantities of gas from the Morrow formation;

(c) the middle Morrow sand traverses Section 7 in a northwest to southeast direction and is present within the NW/4 of Section 7;

(d) the area of greatest middle Morrow sand thickness occurs within the NW/4 of Section 7;

(e) the proposed unorthodox gas well location is necessary in order to encounter the middle Morrow sand in the area of greatest sand thickness within the NW/4 of Section 7; and

(f) production in the Davis "7" Well No. 1 should not be adversely affected by the Turner Federal "7" Deep Well No. 1 due to the limited extent of the middle Morrow sand in Section 7.

(8) The applicant presented engineering evidence indicating that:

(a) the McMillan-Morrow Gas Pool has previously been tested in Section 7 by the (i) Harvey E. Yates Company Hondo Singer "A" Well No. 1 located in Unit P; and (ii) Harvey E. Yates Company Singer Davis Well No. 1 located in Unit K;

(b) the Hondo Singer "A" Well No. 1 was completed in the Morrow formation in 1965 and IP'd at a rate of approximately 306 MCFGD. The well cumulatively produced 34 MMCFG from the McMillan-Morrow Gas Pool prior to being plugged and abandoned;

(c) the Singer Davis Well No. 1 was completed in the Morrow formation in 1976 and IP'd at a rate of approximately 2.9 MMCFGD. The well cumulatively produced 127 MMCFG from the McMillan-Morrow Gas Pool prior to being plugged and abandoned;