

Union Mead Com 3
Carlsbad, S. (Morrow)
Eddy Co., New Mexico
J- Sec S, T-22-S, R-27-E

Application for Classification as Hardship Gas Well

- 1) During February, 1984 this well produced at an average daily rate of 713 mcf, 0.3 BC & 118 BSW on compression. Daily production for April 3, 1984 was 720 mcfd (field calculation), 0 BC & 125 BSW on 3/4" choke with flowing tubing pressure of 200 psig and line pressure of 600 psig.

Attempts to cut flow rate on this well have resulted in dropping of fluids causing "logging off." Experience has shown that approximately 10-12 hour flowing to atmosphere is required to regain flow. It is very doubtful if flow could be reestablished if well was permitted to completely "log off", and as a result underground waste would occur.

- 2) Attempts made to improve flow characteristics.

- a) A brief history of this well is as follows: Well was completed March 22, 1973 with sales being initiated September 15, 1973. Additional intervals were perforated June 20, 1974. After cleaning up wellbore, records do not show any water production from this well until July, 1976, at which time reported water production was 1 BPD. No increase in water production was observed until April, 1979, at which time reported water production was 12 BPD. In May, 1980, well started loading up due to increased water; however, flow could be maintained by unloading. On July 31, 1980 a bottom hole pressure was taken at 11,500' (-8,323') which was 1977 psig. Other information obtained showed the top of fluid to be located at 7340' with water at 8200'. During the next two months, attempts to unload and maintain flow were not successful. To obtain better flow characteristics, 2-7/8" OD tubing was replaced with 2-3/8" tubing on October 20, 1980. To establish flow, it was necessary to swab well twelve days; and alternately flow to sales and unload for the next eight days. On January 26, 1982, compression was installed as flow could not be maintained because of excessive water production. During the latter part of March 1982, well loaded up and died. To reestablish flow, it was necessary to swab well ten days before it "kicked off" and started unloading. Before sales could be started, an additional 5 days of cleaning to pit were required. Since this date, flow has been maintained by close observation and immediately unloading if any mechanical problems are found to exist.

Any remedial operations to shut-off water encroachment in this wellbore would possibly result in loss of well due to the sensitivity of the Morrow sand. This statement is made as remedial operations to shut-off water production in the west offsetting well were not successful and resulted in near loss of total productivity.