



Amoco Production Company

Southern Division
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T. D. Autry
Division Production Manager

October 31, 1990

New Mexico Oil Conservation Division
1000 Rio Brazos Road
Aztec, NM 87410

File: KJK - 148 - WF

Request for Increase in Surface Injection Pressure
Administrative Order No. SWD-396
Mudge LS 16
NW/4 Section 10, T31N, R11W
San Juan County, New Mexico

Amoco requests that the surface injection pressure limitation for the subject well be increased from 1486 psi to 2450 psi. Find attached a plot of surface injection pressure versus rate for a step rate test performed by Tenneco in July 1988. The step rate test was performed down 2-3/8 inch tubing with 30 minute time steps. The resulting formation parting pressure was 2470 psig surface pressure at 0.80 BPM. A bottom hole pressure bomb was not used during the test due to the low pump rates.

Based on the data collected during the step rate test Amoco will be unable to pump into the well at any rate at the current 1486 surface injection pressure limit. An increase in the pressure limitation will allow Amoco to pump 500 to 1000 bwpd in the unstimulated Morrison Formation and still remain below the formation parting pressure.

Amoco also intends to run 2-3/8 inch plastic lined tubing instead of the originally planned 2-7/8 inch tubing. The anticipated injection rate of less than a barrel of water a day does not require the use of the larger tubing string.

Should you have any questions contact Brooke Bell in Denver at (303) 830-5341.

Sincerely,

T D Autry/wem

Attachment

cc: New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, NM 87504
J. W. Hawkins - Building w/ attachment
B. D. Shaw - San Juan Operation Center

RECEIVED

NOV 2 - 1990

OIL CON. DIV.
DIST. 3