A A CON

T. D. Autry Division Production Manager **Amoco Production Company**

Southern Division 1670 Broadway P.O. Box 800 Denver, Colorado 80201 303-830-4040

February 7, 1991

New Mexico Oil Conservation Division P. O. Box 2088

Santa Fe, NM 87504

File: KJK - 67 - WF

Pritchard SWD No. 1

Request for Injection Pressure Increase

NW/4, Section 34, T31N, R9W

FEB1 5 1991
OIL CON. DIV.

Per Administrative Order SWD No. 405, the injection well or system shall be equipped with a pressure limiting device which will limit the wellhead pressure on the injection well to no more than 1500 psi. Amoco requests that the pressure limitation be increased to 1670 psi. The requested pressure is based on the current perforated Entrada interval of 8382 to 8600 feet and 0.2 psi per foot. In our original permit application Amoco had intended to also complete the Bluff and Morrison formations which would have resulted in the lower permitted pressure of 1500 psi. However, at this time Amoco does not intend to complete the Bluff or the Morrison formations.

In addition Order SWD No. 405 requires that prior to commencing injection operations the operator shall obtain a formation water analysis from the completed disposal horizon and send the results to the Santa Fe Division office. An Entrada formation water sample was taken while swabbing immediately following perforating and prior to fracture stimulation. The water analysis from the Entrada formation showed a total dissolved solids (TDS) level of 11,735 parts per million (ppm). Find attached the documented water analysis.

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

Sincerely,

T.Dasty / Kle

Attachment

cc: New Mexico Oil Conservation Division w/ attachment

1000 Rio Brazos Road Aztec, NM 87410

Attention: Ernie Bush

Buddy Shaw - San Juan Operation Center w/ attachments J. W. Hawkins - Building w/ attachments

API WATER ANALYSIS REPORT FORM

Date Received	REMAPKS & RECOMMENDATIONS:	Iron, Fe (Iotal) Sulfide, as H ₂ S	Total Dissolved Solids (calc.)	Chloride, Cl Sulfate, So ₄ Carbonate, CO ₃ Bicarbonate, HCO ₃		Magnesium, Mg Barium, Ba	Sodium, Na (calc.) Calcium, Ca	CATIONS	DISSOLVED SOLIDS	Type of Water (Produced, Supply, etc.) Entrada (Swab	Lease or Unit	Field	AMX.	Laboratory No. 25-910124-4
Preserved	SAMPLE HEAVILY		11735_	4520 121.5 1227 25.6 1830 30				mg/l me/l	-	b after perforative	Well DWD #	Legal Description		1.4
Date Analyzed 1-24-イ)	Discocordo		T TAR	No THE HELLEN HE	WATER PATTERNS		Specific Gravity, 60/60 F. Resistivity (ohm-meters) <u>66</u> F.	рН	OTHER PROPERTIES	tive, prior to frac	Depth Formation	County or Parish	Sample No.	
Analyzed By		1000 00 00 00 00 00 00 00 00 00 00 00 00	milita tamba sama	STANDARD 10 20 C1 11+	NS — me/I		1.005	7,13		Sampled By	Water, B/D	State	Date Sampled 1 - 24 - 9	

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