Appendix B

PHOTO A

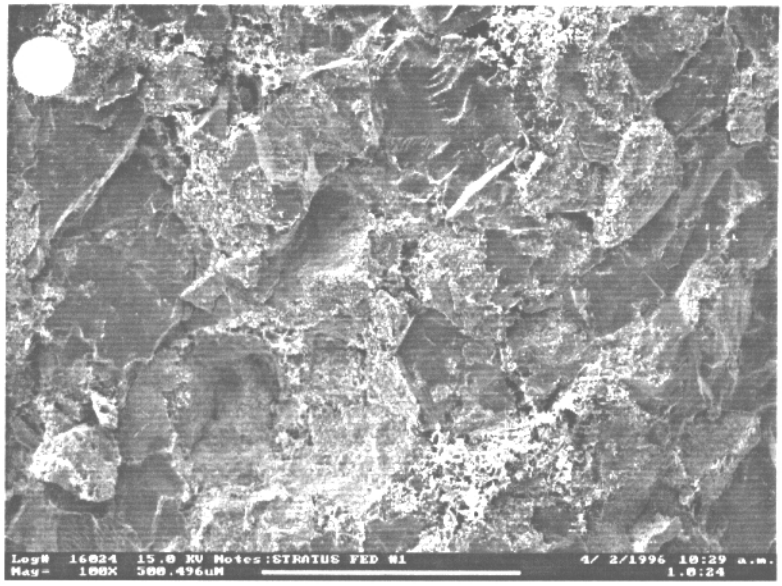


PHOTO B

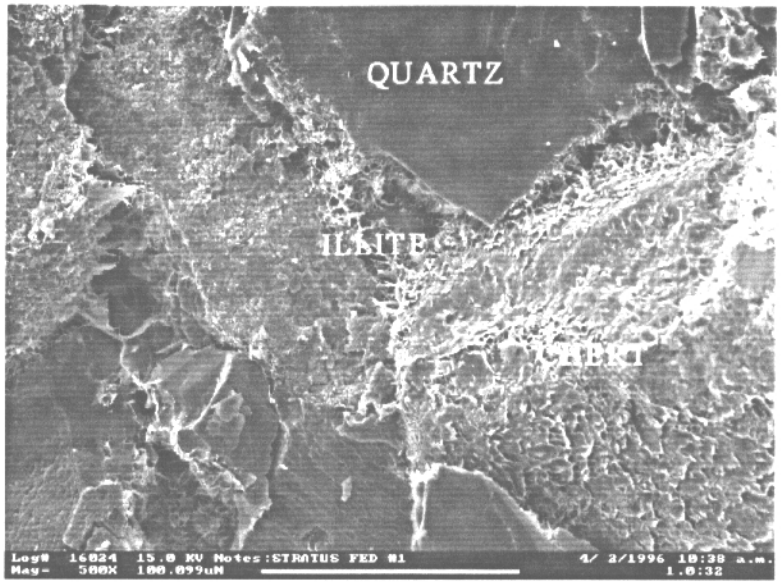


PHOTO C

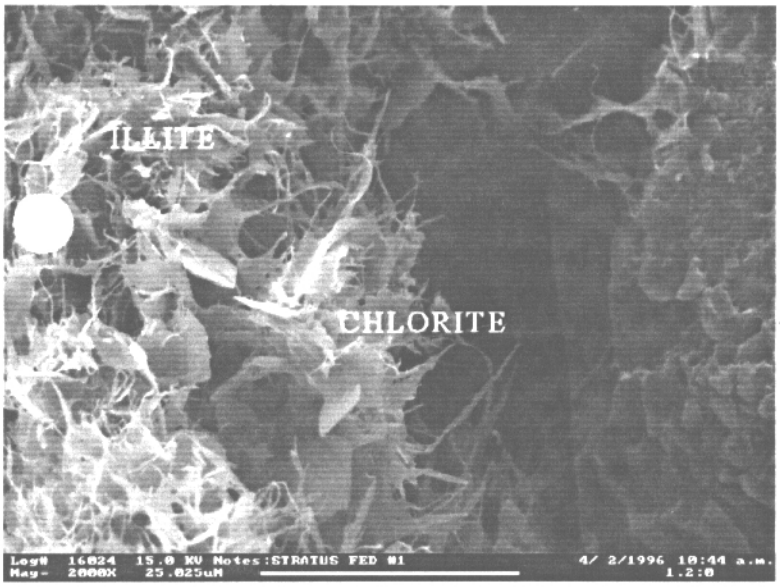
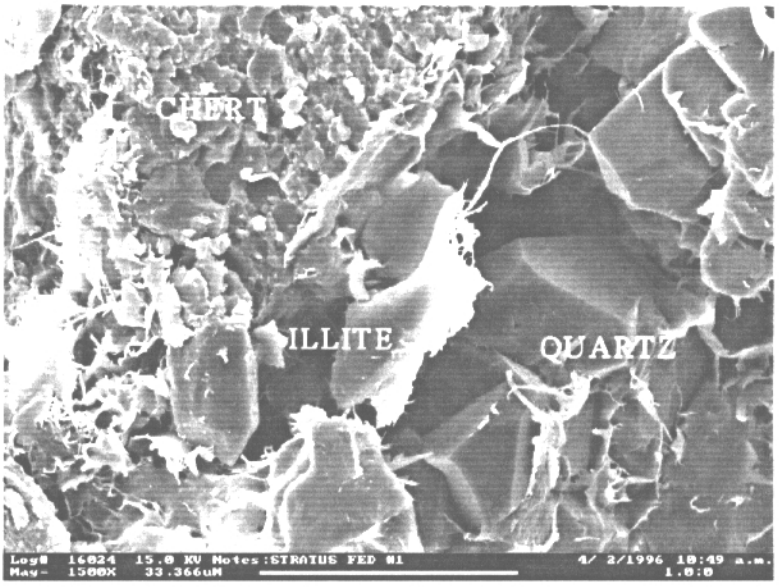


PHOTO D



16024.9 ft STRATUS FED #1 SWEETWATER CO., WYO. FRONTIER

Perm. (Kv)=.02md Porosity=7.3%

PHOTO A

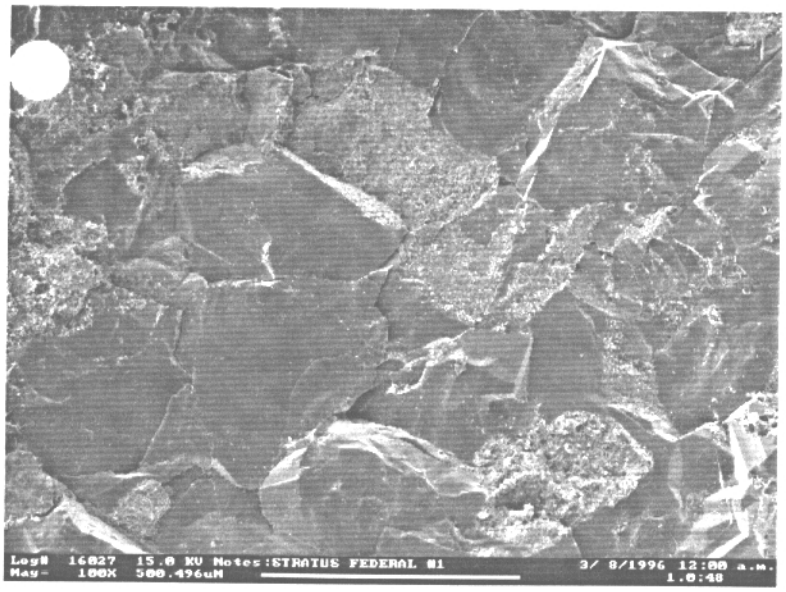


PHOTO B

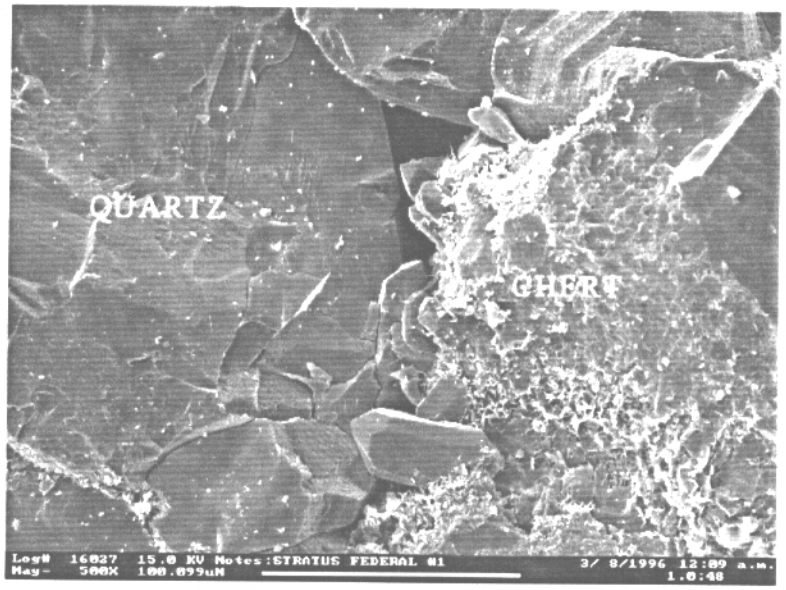


PHOTO C

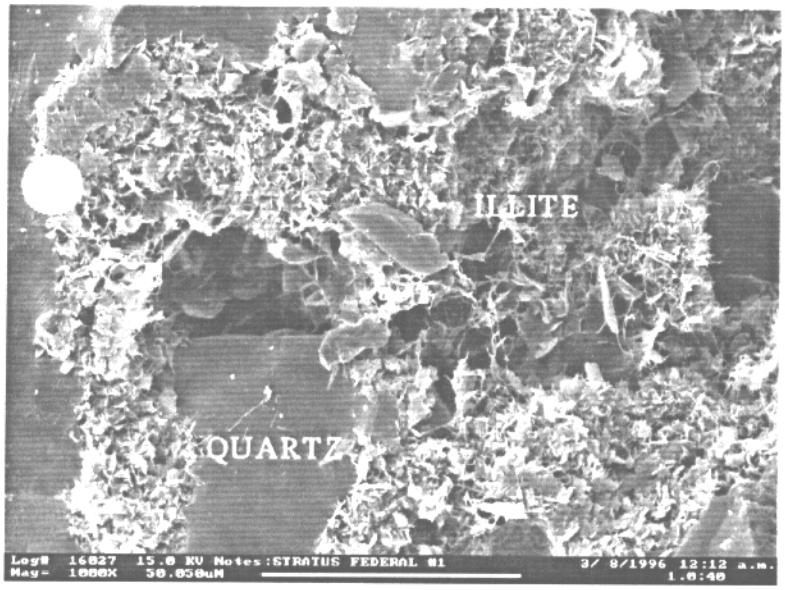
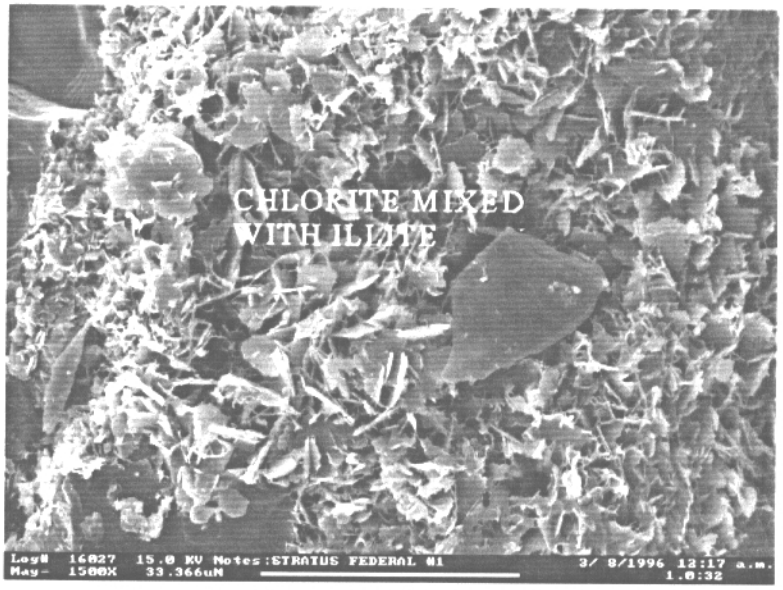


PHOTO D



16026.8 ft STRATUS FED #1 SWEETWATER CO., WYO. FRONTIER Fm

Perm. (Kv)=.04md Porosity=6.5%

PHOTO A

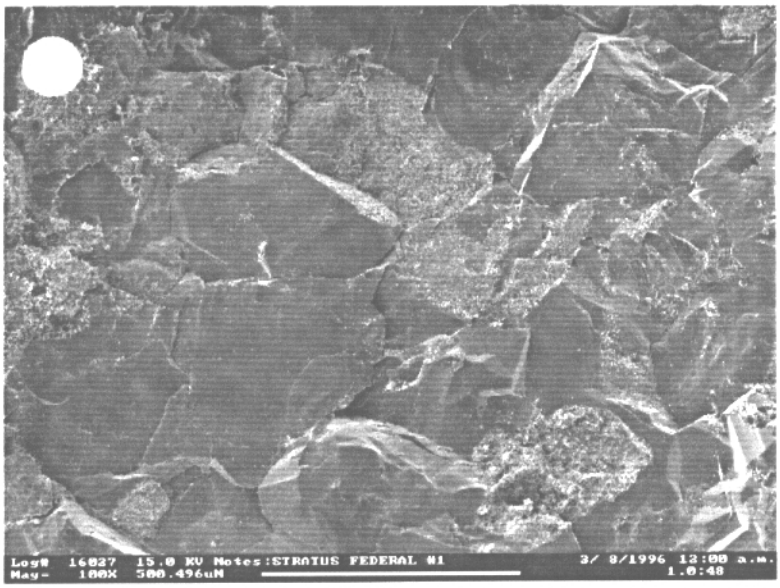


PHOTO B

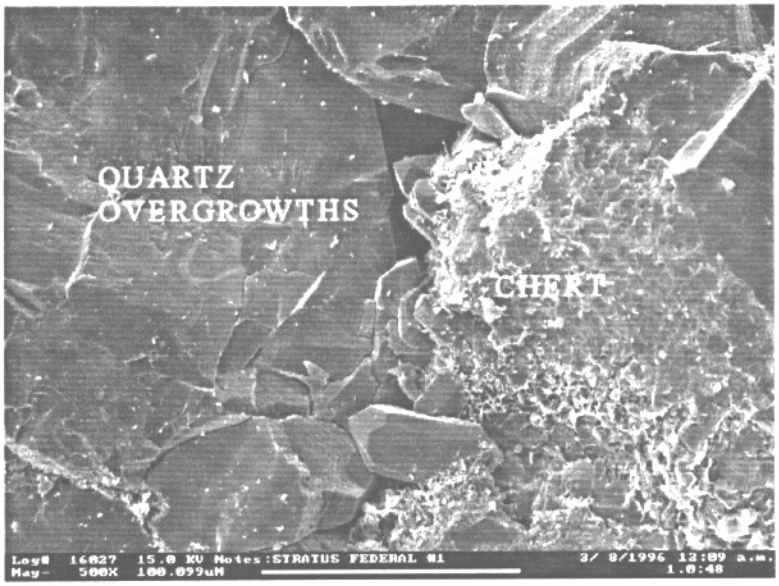


PHOTO C

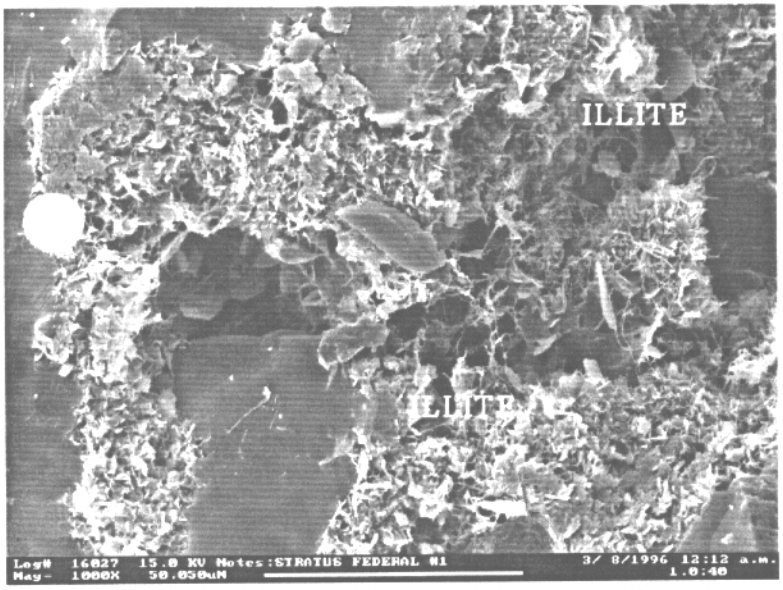
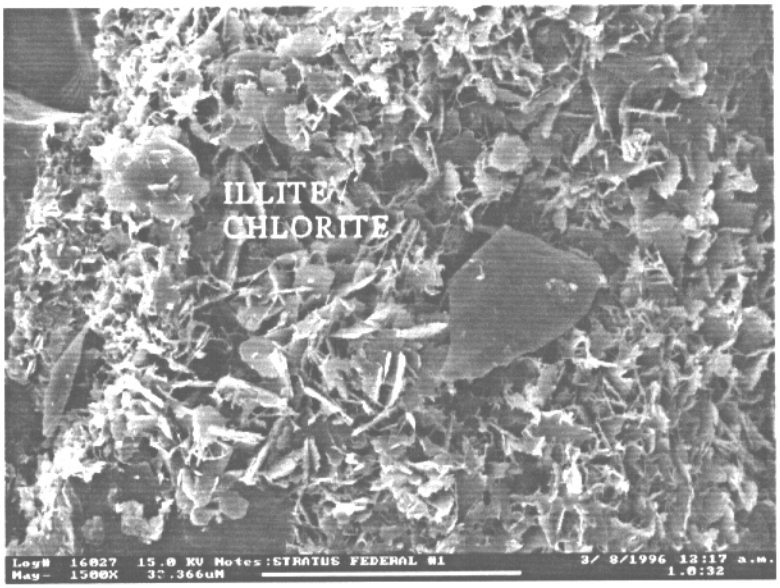


PHOTO D



16027 ft STRATUS FED #1 SWEETWATER CO., WYO. FRONTIER

Overview shows sample tightly quartz overgrowth cemented (Photo A). Porosity generally limited due to quartz overgrowths (Photo B). Illite clay lines pore spaces (Photo C). Trace amounts of iron chlorite are mixed-in with the illite clay.

Perm =.25md (Kh 65 degrees) Porosity=6.5%

PHOTO A

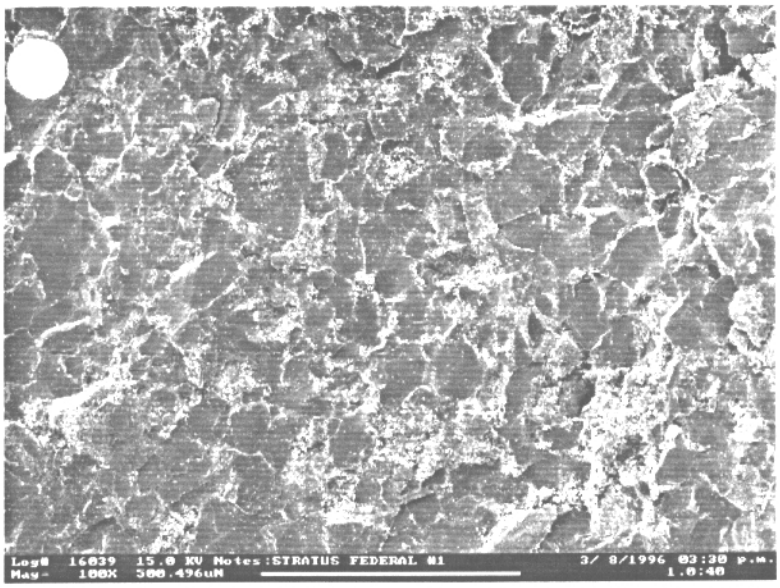


PHOTO B

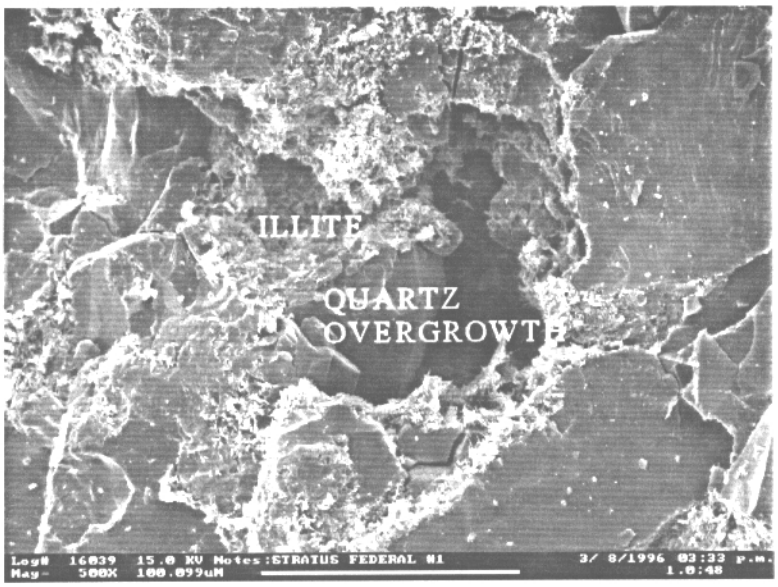


PHOTO C

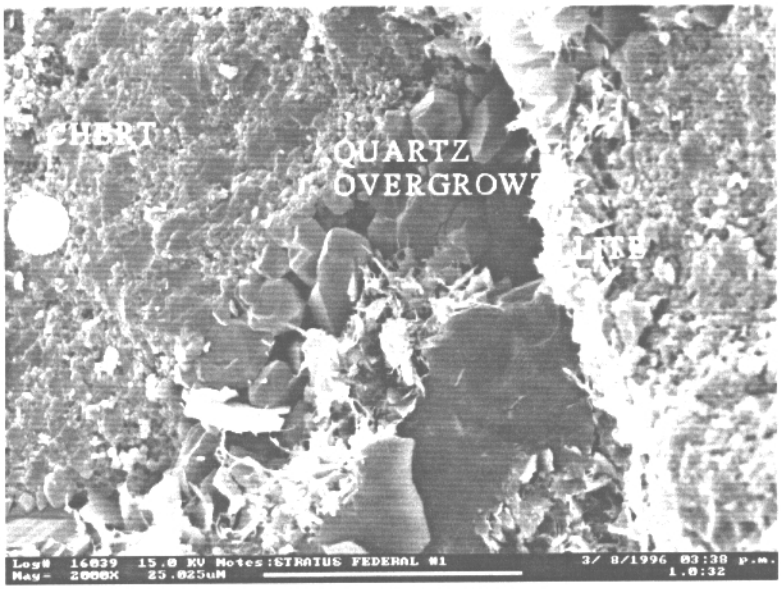
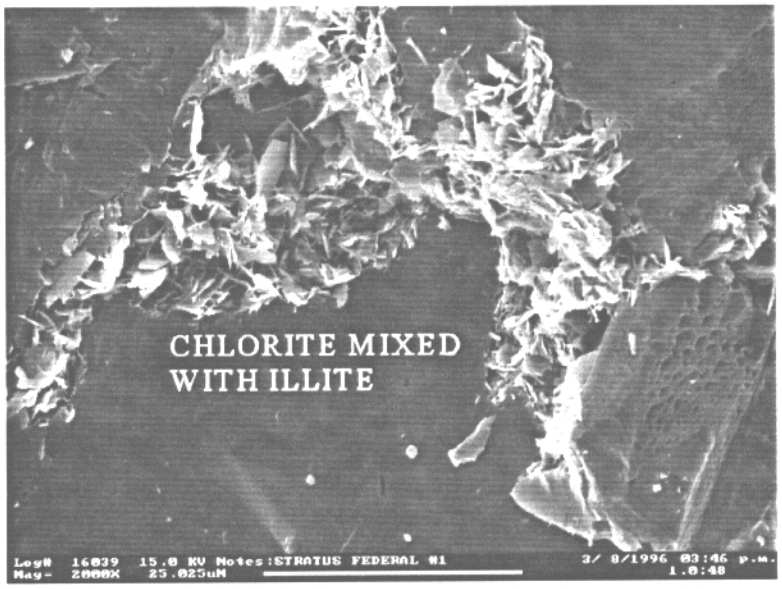


PHOTO D



16039.8 ft STRATUS FED #1 SWEETWATER, CO.,TX FRONTIER

Low magnification photomicrograph shows overview of sample area (Photo A). Note that sample is tightly quartz overgrowth cemented. Porosity is limited due to tight quartz cementation (Photo B). Illite clay lines and fills available pore spaces (Photos C and D). Chert grains common throughout. Trace amounts of iron chlorite obsserved (Photo D).

Perm = .01md (65 degrees) Porosity=7.4%

PHOTO A

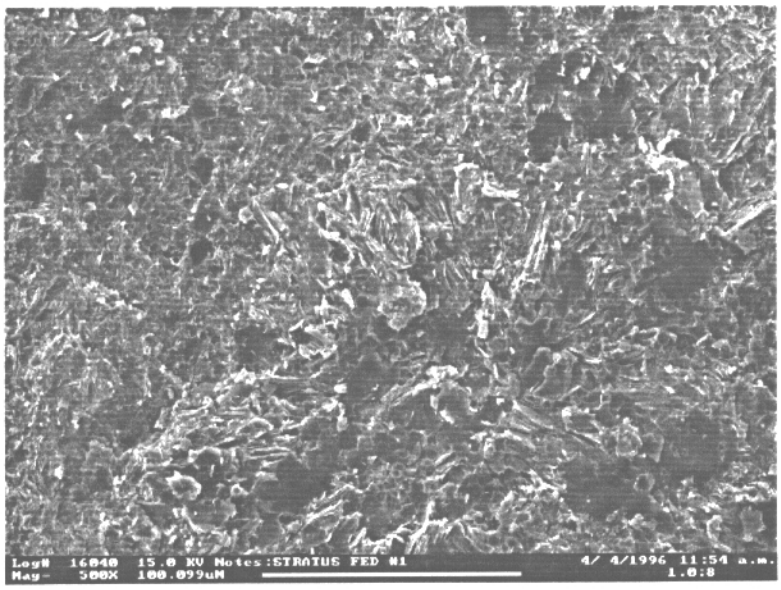


PHOTO B

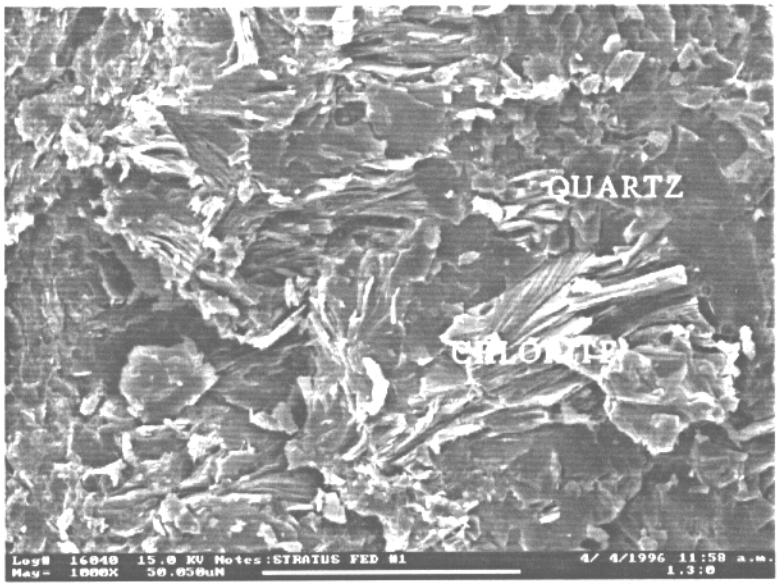


PHOTO C

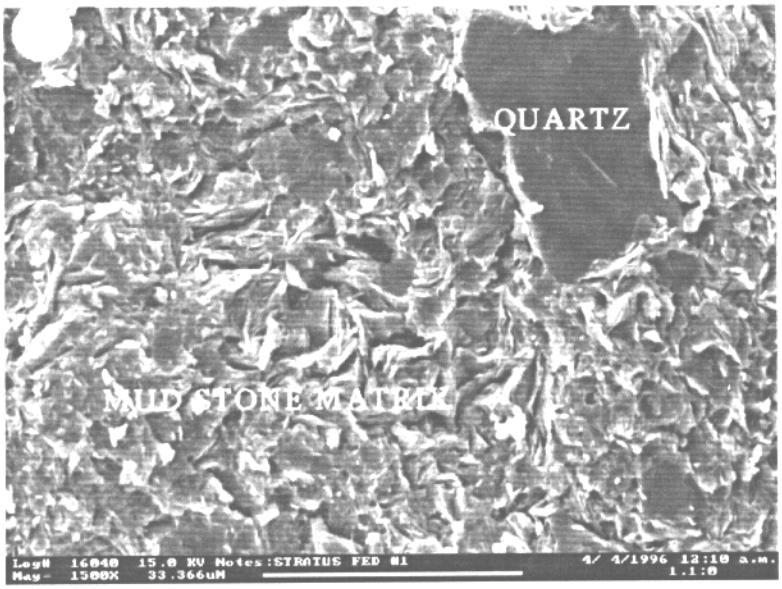
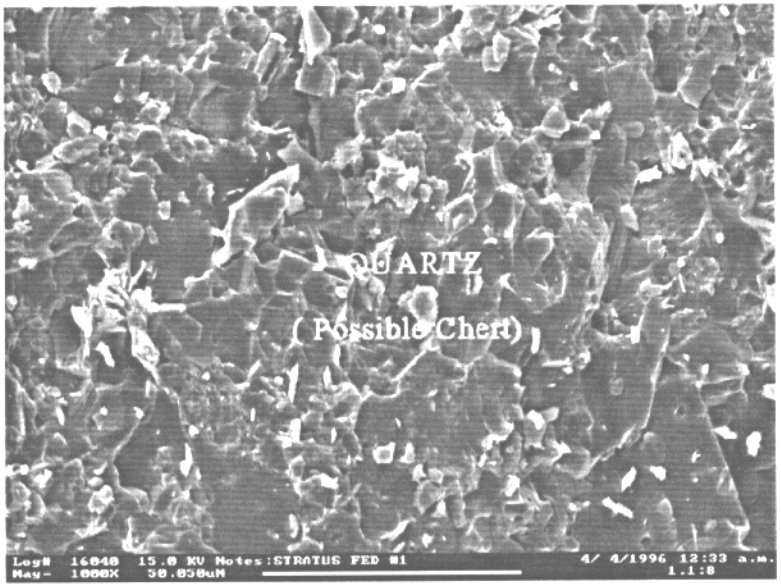


PHOTO D



16040.0 ft STRATUS FED #1 SWEETWATER CO., WYO. FRONTIER Fm

continued on next page

PHOTO E

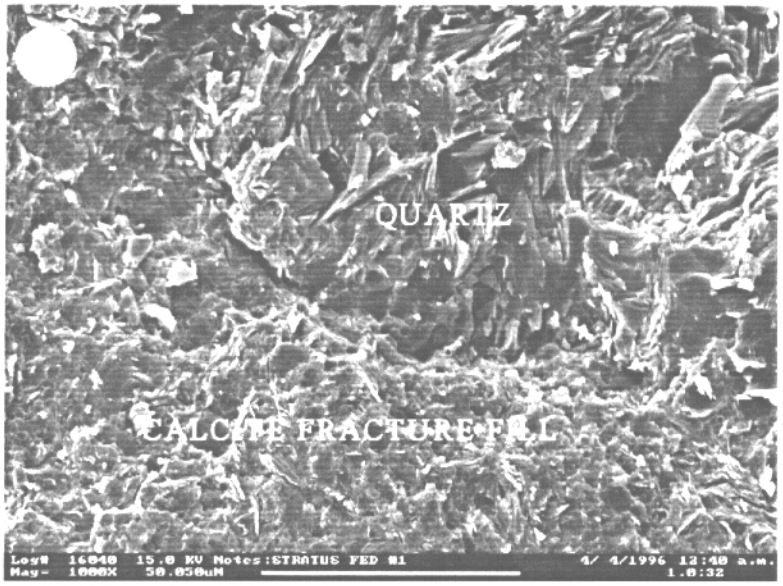
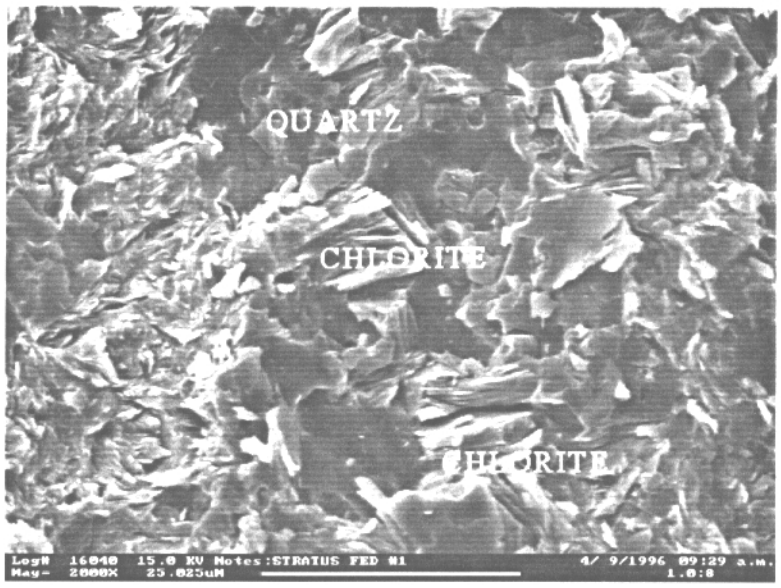


PHOTO F



16040.0 ft STRATUS FED #1 SWEETWATER CO., WYO. FRONTIER Fm

perm. (Kv)=.01 md porosity=7.4%

PHOTO A

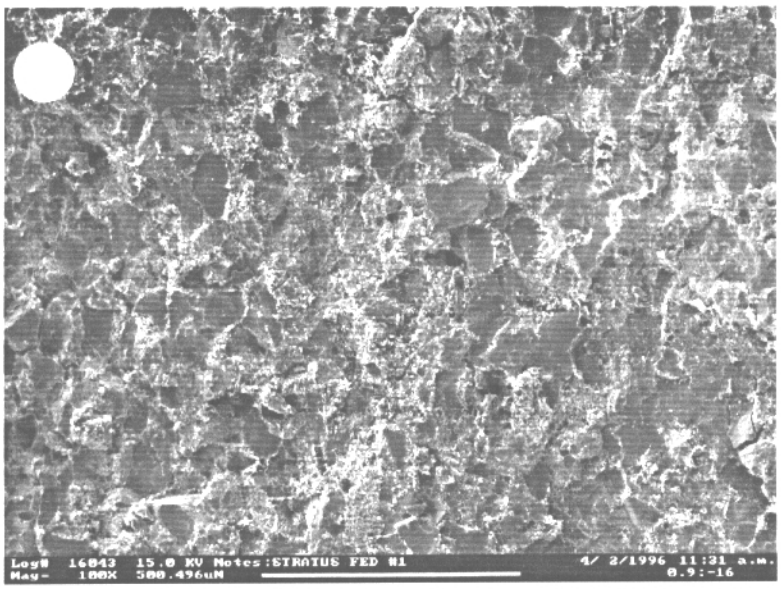


PHOTO B

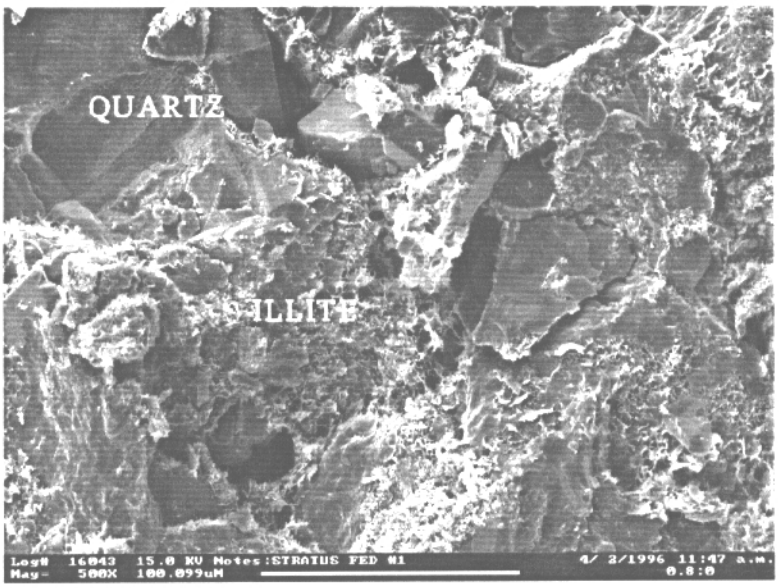


PHOTO C

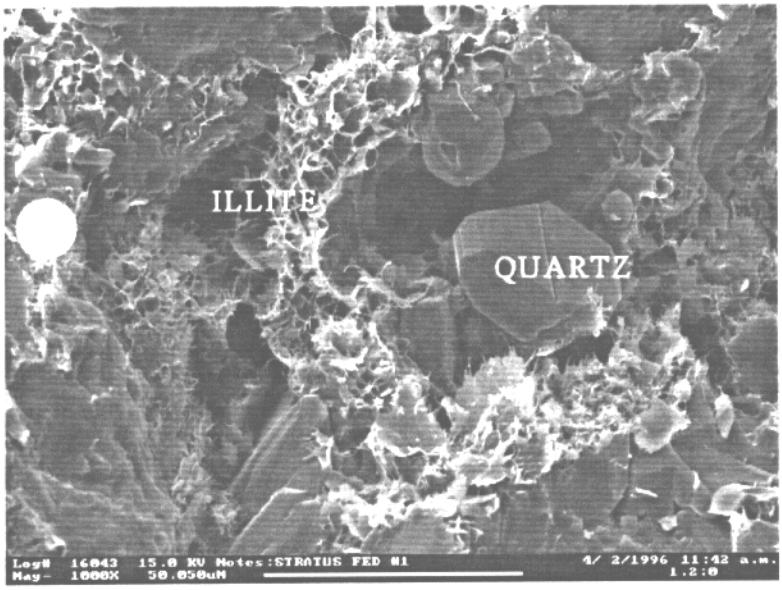
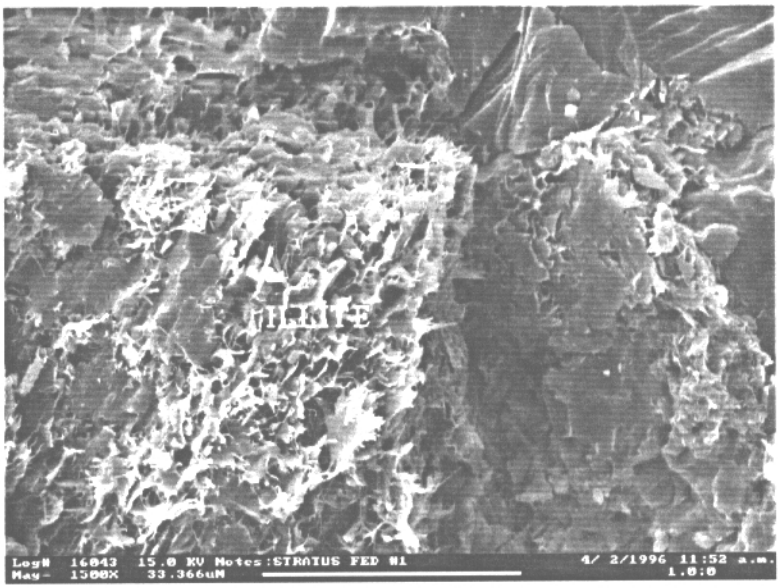


PHOTO D



16043.7 ft STRATUS FED #1 SWEETWATER CO., WYO. FRONTIER FM

Perm. (Kv)=.02md Porosity=9.5%

PHOTO A

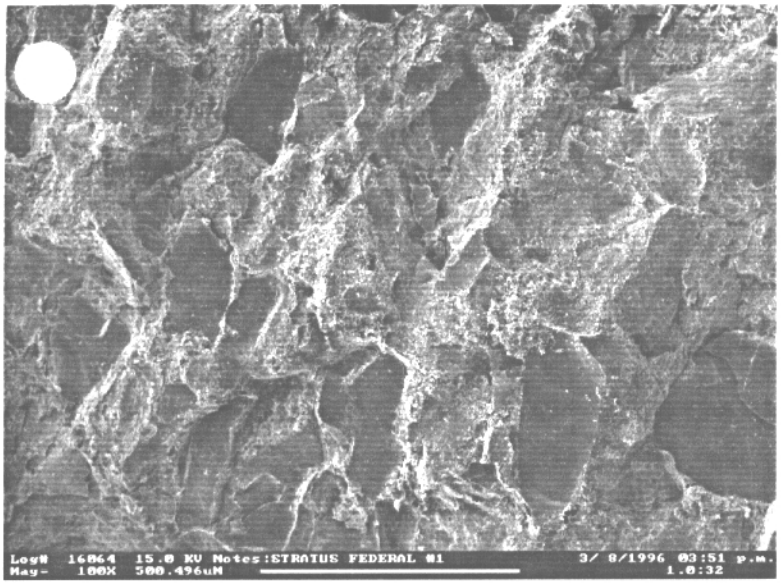


PHOTO B

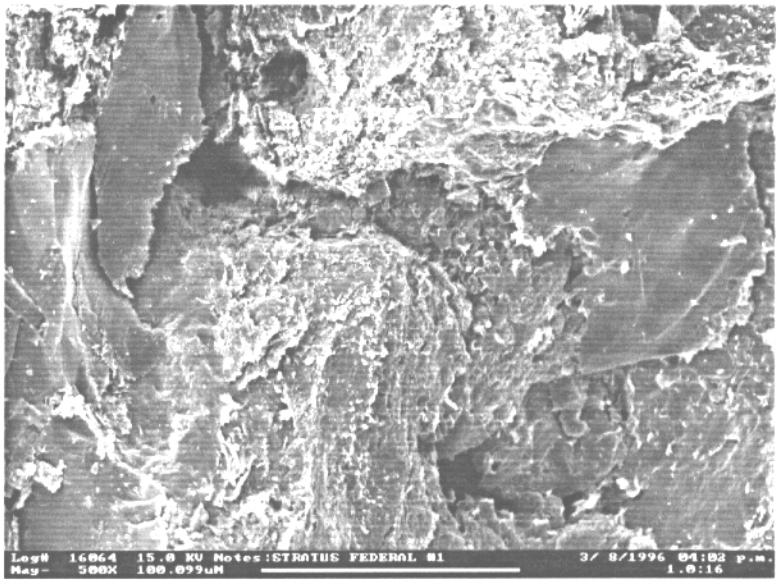


PHOTO C

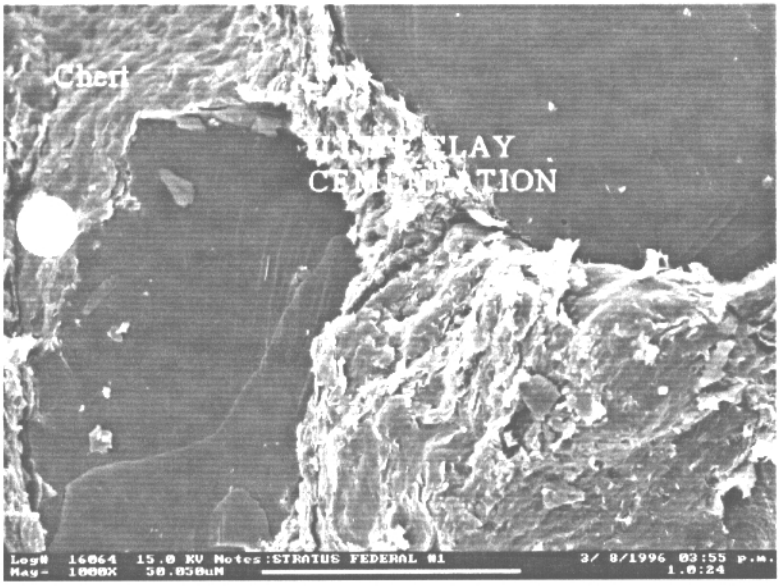
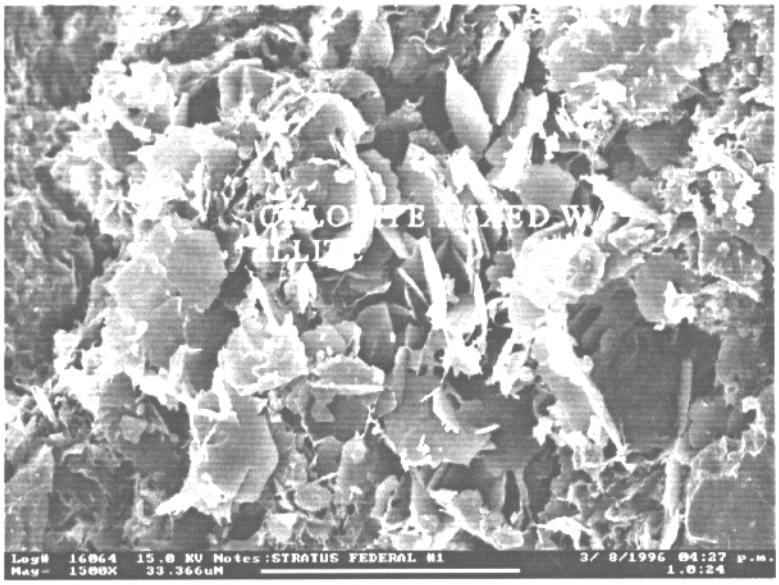


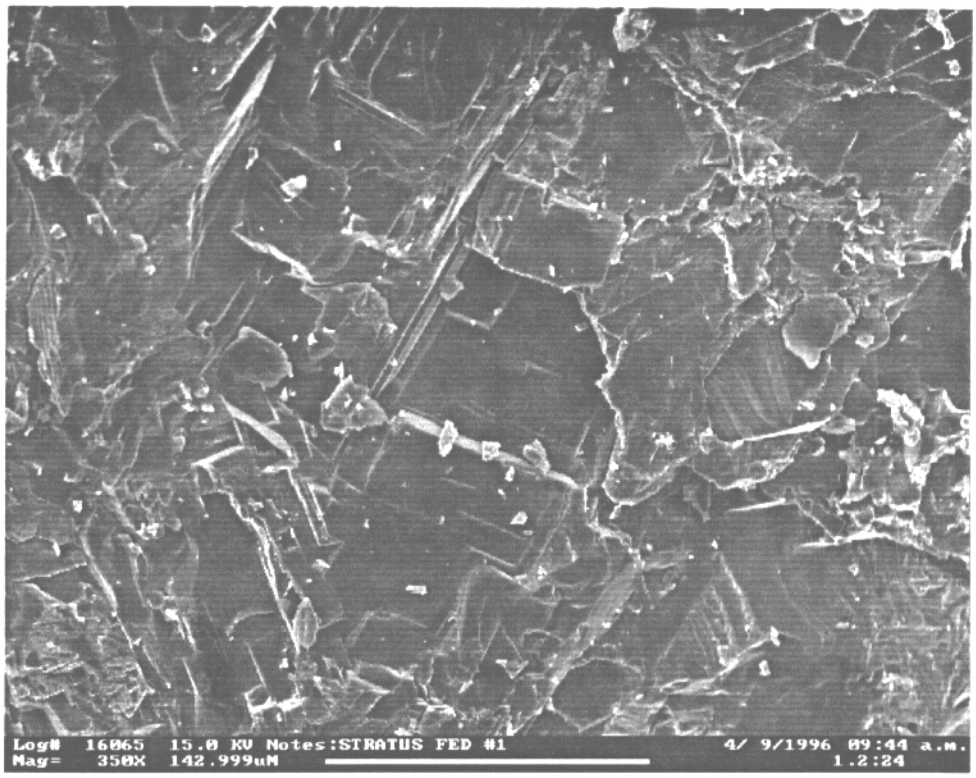
PHOTO D



16064.0 ft STRATUS FED #1 SWEETWATER CO., WYO FRONTIER FM

Overview shows sample tightly quartz and clay cemented (Photo A). Limited porosity present (Photo B). Note in Photo B the illite clay coating quartz grains. Illite clay cementation and chert grains are common throughout (Photo C). Small amounts of iron chlorite mixed with illite are present (Photo D).

Perm.=<.01md (65 degrees) Porosity=5.9%



16065.2 ft FRACTURE SURFACE (CALCITE)

STRATUS FED #1 SWEETWATER CO., WYO. 24 - 22N - 107W

PHOTO A

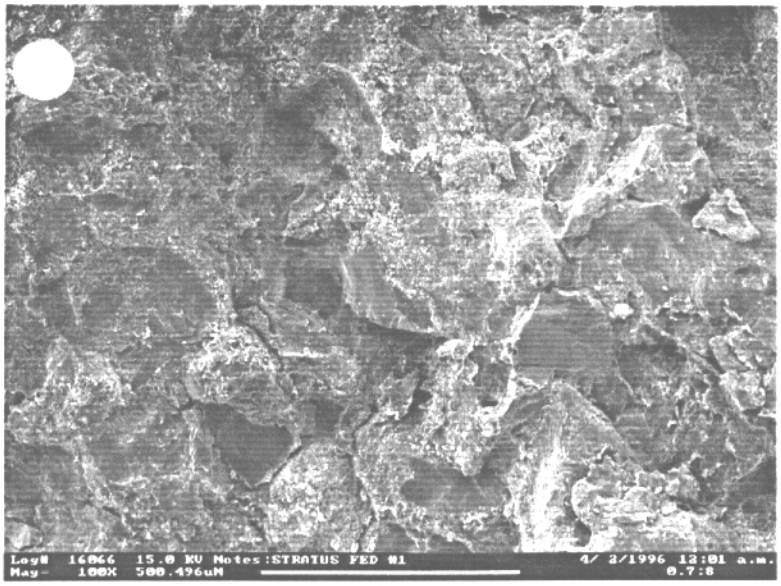


PHOTO B

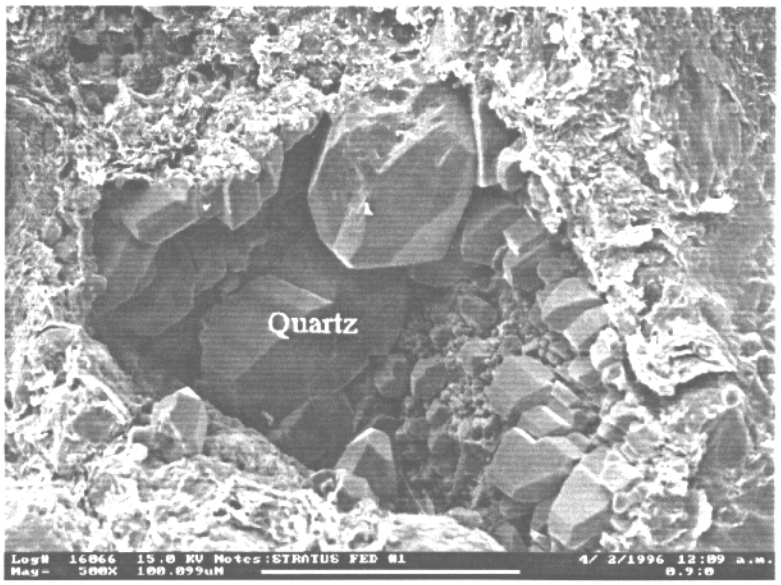


PHOTO C

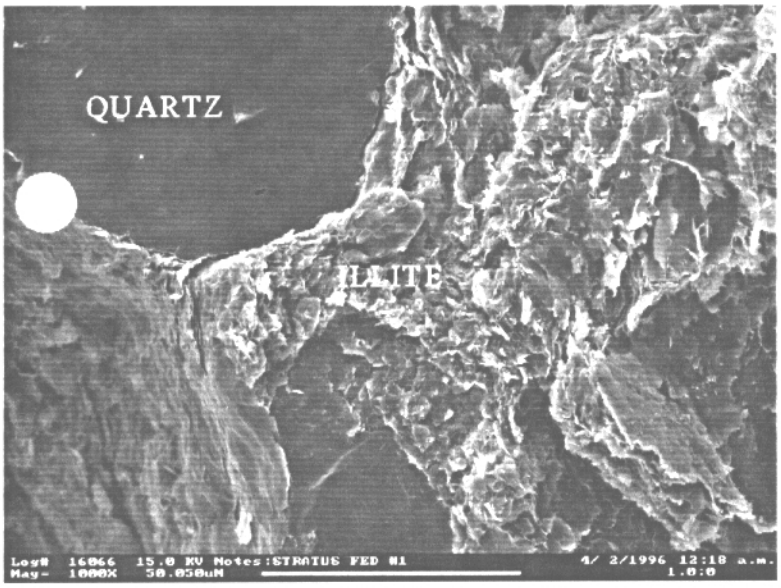
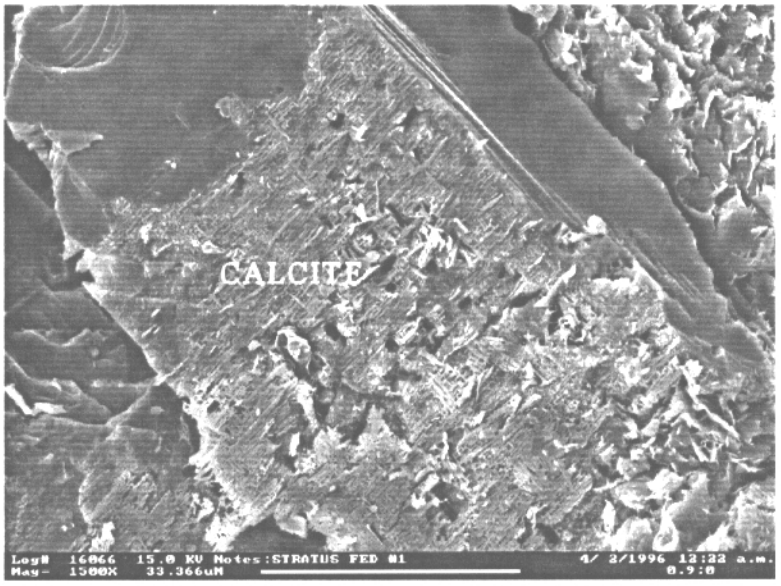


PHOTO D



16066.4 ft STRATUS FED #1 SWEETWATER CO., WYO FRONTIER Fm

continued on next page

I TO E

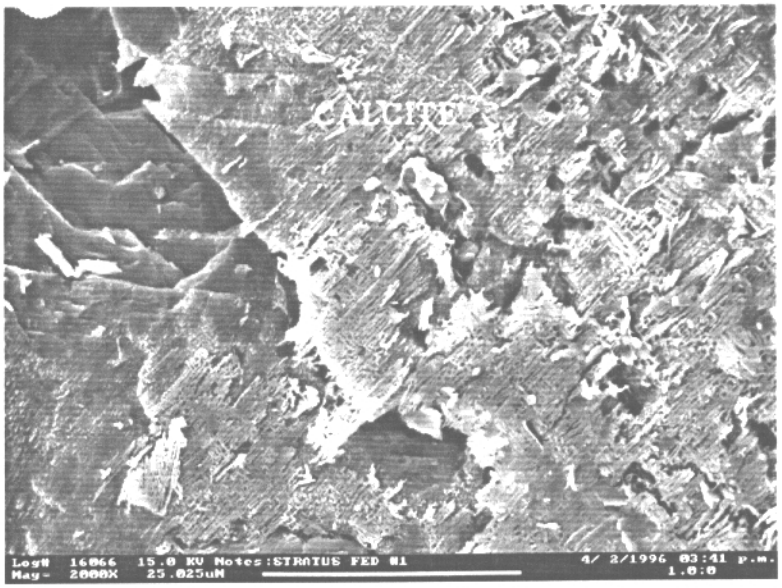
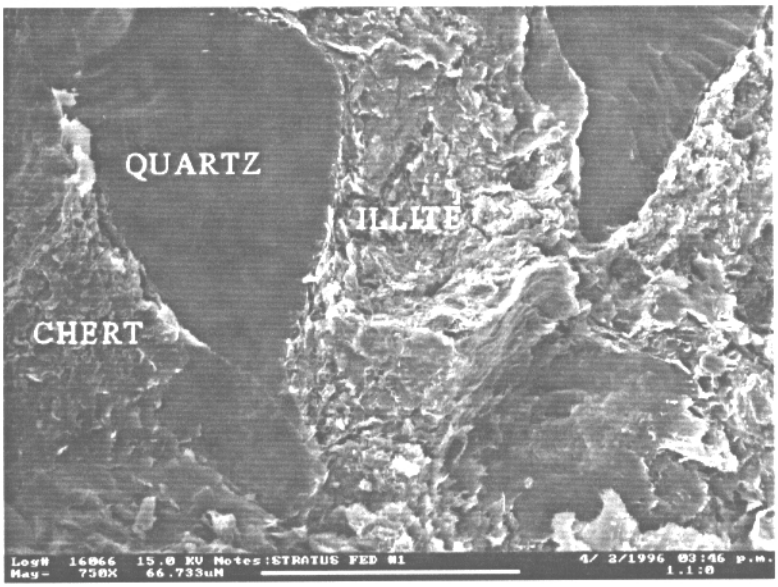


PHOTO F



16066.4 ft STRATUS FED #1 SWEETWATER CO., WYO. FRONTIER FM

Perm. (Kv)=.03 md Porosity=9.4%

PHOTO A

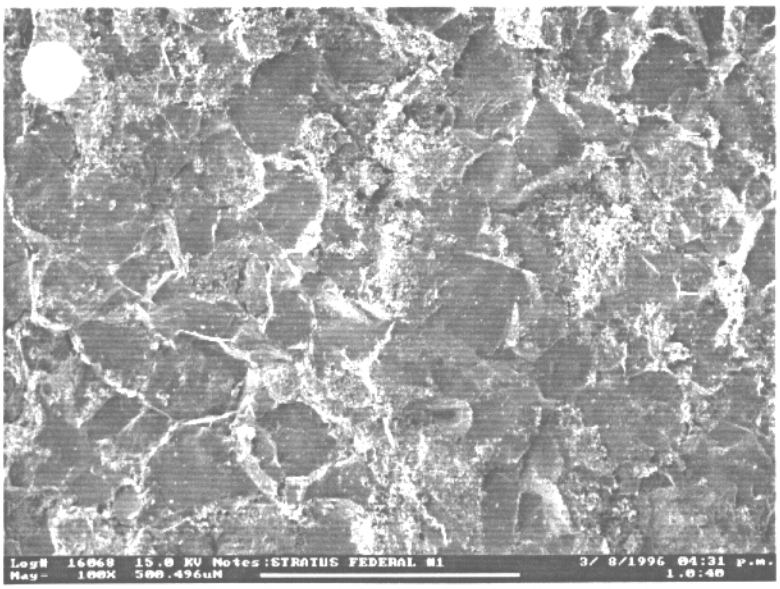


PHOTO B

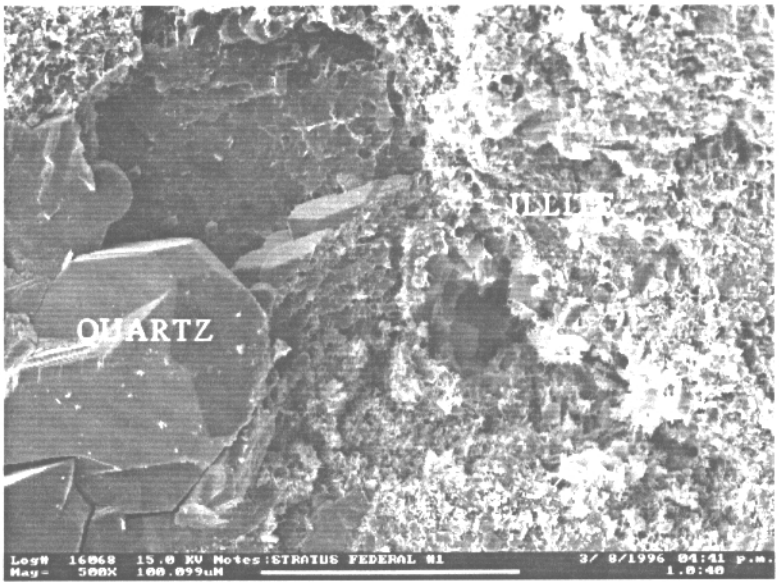


PHOTO C

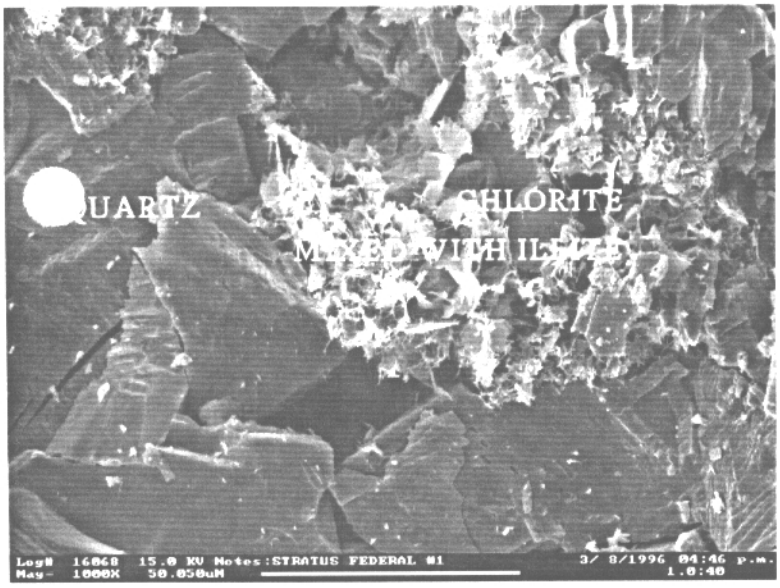
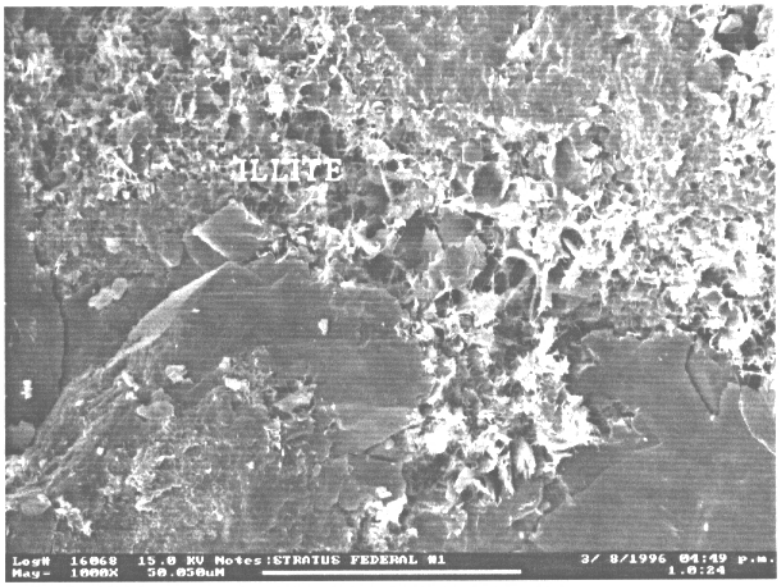


PHOTO D



16068.5 ft STRATUS FED #1 SWEETWATER CO., TX. FRONTIER FM

Low magnification photomicrograph show sample tightly cemented with quartz overgrowths and illite clay (Photo A). Sample appears to have a slight increase in porosity compared to sample depth of 16064 ft. (Photo B). Illite clay mixed with trace to small amounts of iron chlorite lines and filles pore spaces Photos C and D).

Perm = .06md (65 degrees) Porosity=11.1%

PHOTO A

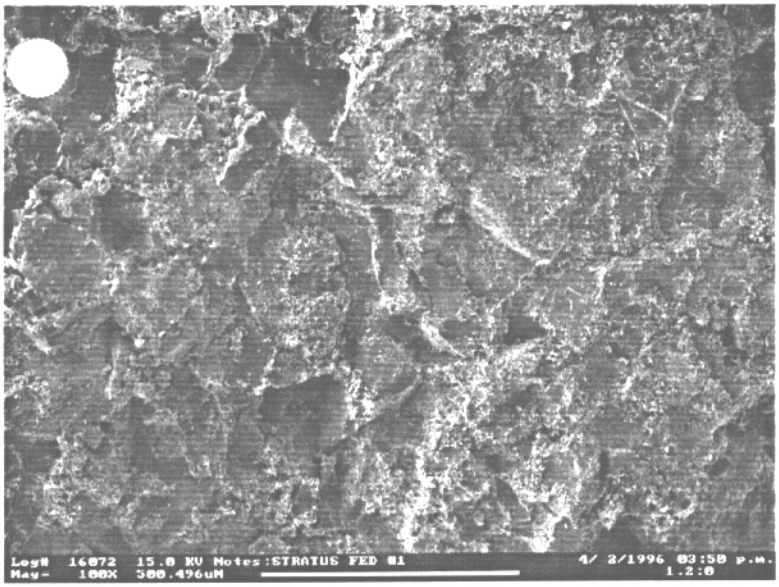


PHOTO B

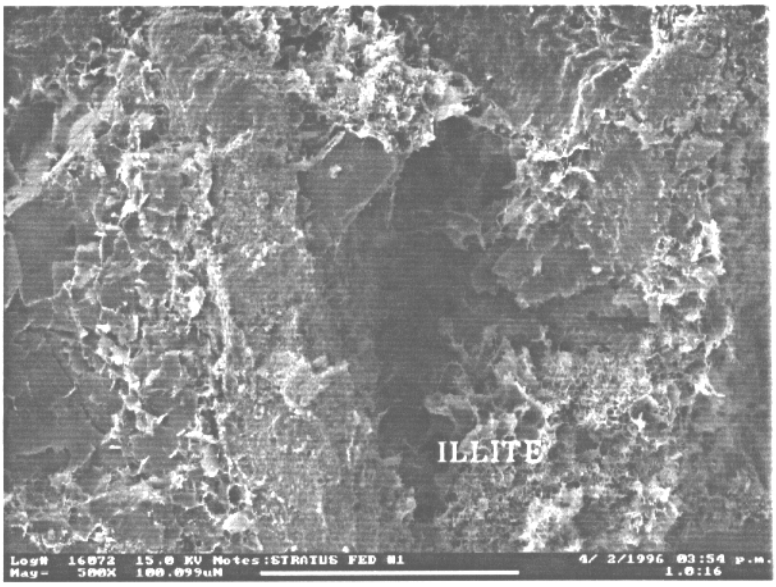


PHOTO C

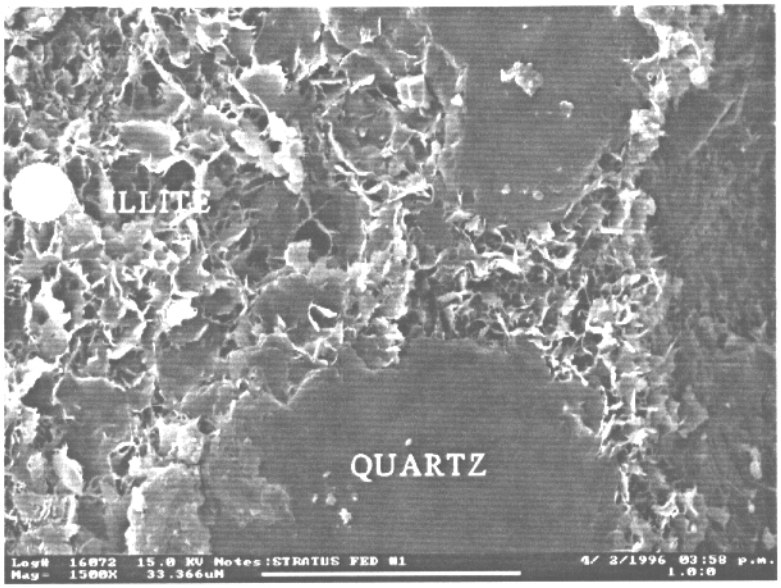
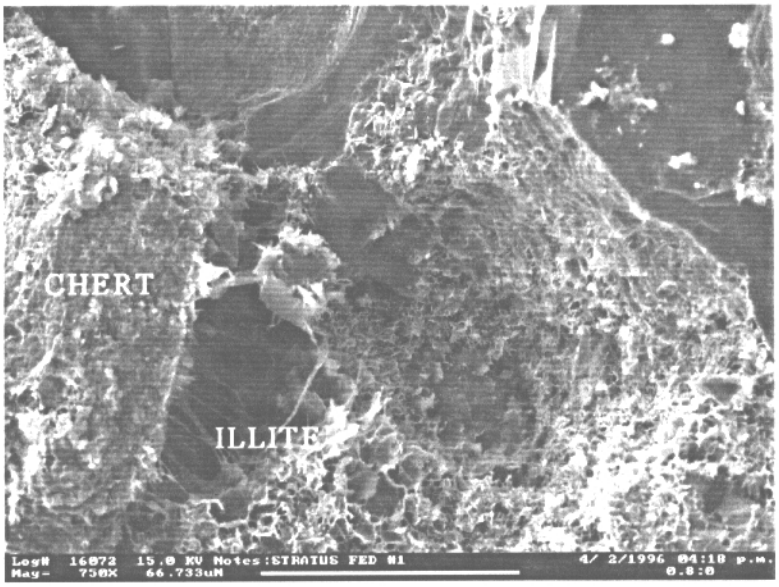


PHOTO D



16072.5 ft STRATUS FED #1 SWEETWATER CO., WYO. FRONTIER FM

Perm. (Kv)=.04md Porosity=10%

PHOTO A

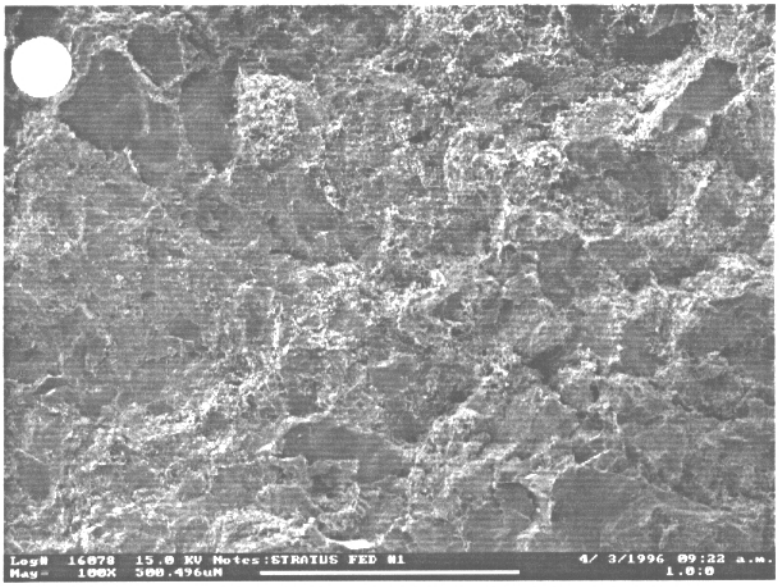


PHOTO B

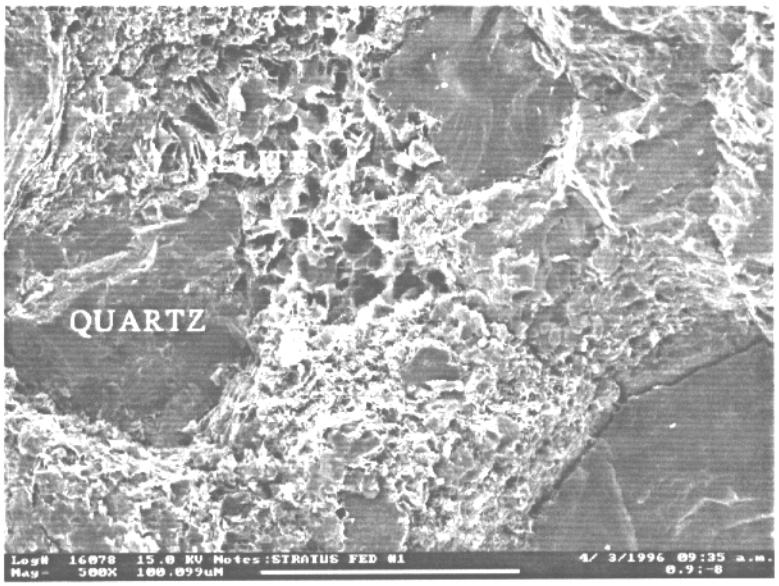


PHOTO C

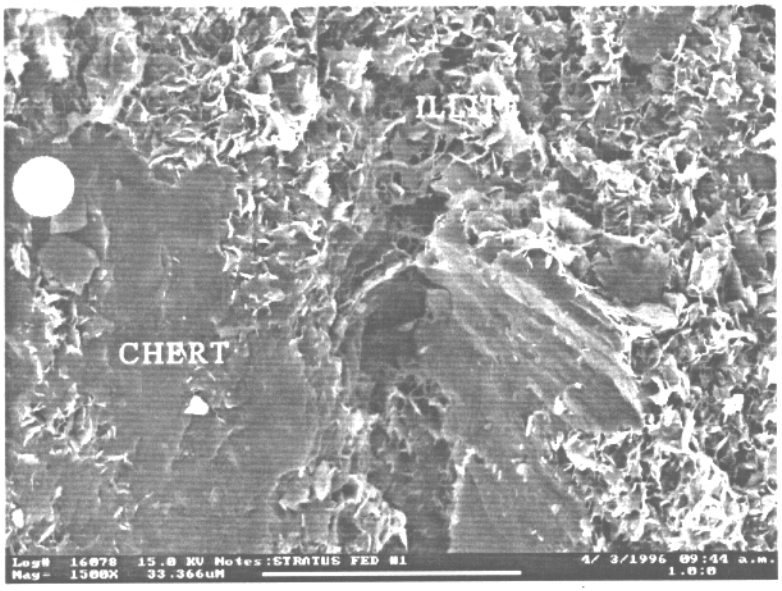
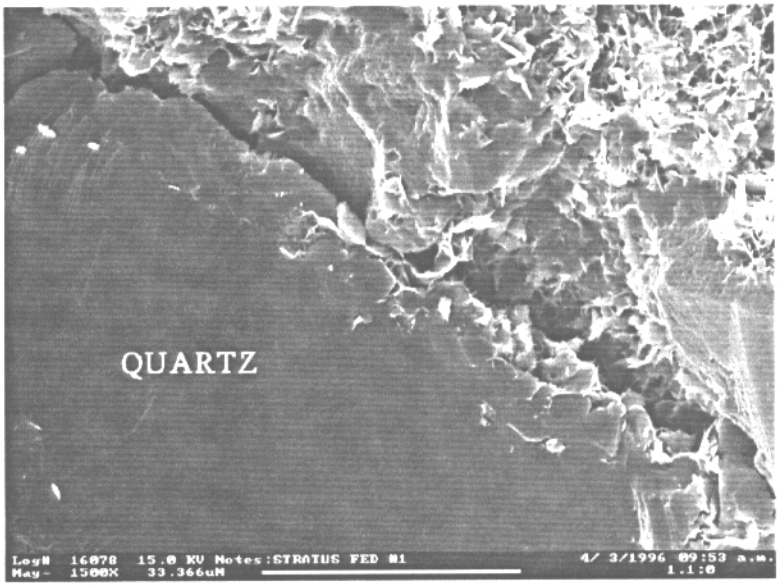


PHOTO D



16078.9 ft STRATUS FED #1 SWEETWATER CO., WYO FRONTIER FM

Perm. (Kv)=.03md Porosity=8.2%

PHOTO A

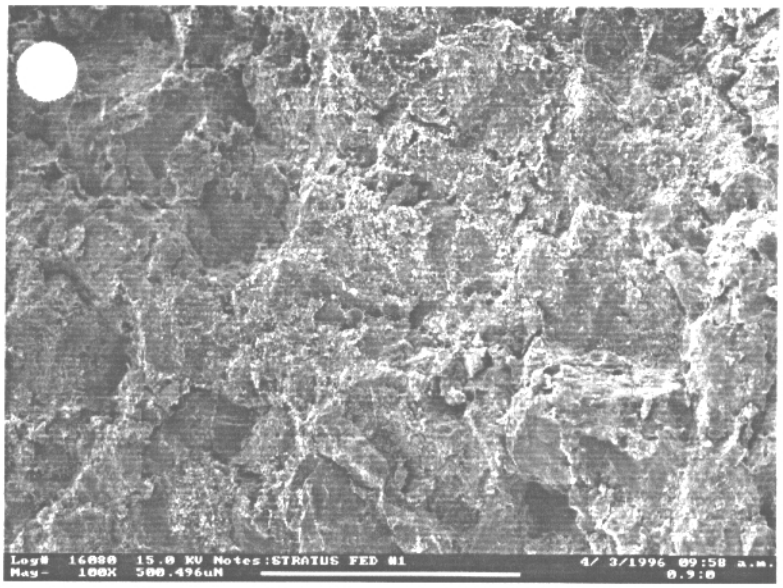


PHOTO B

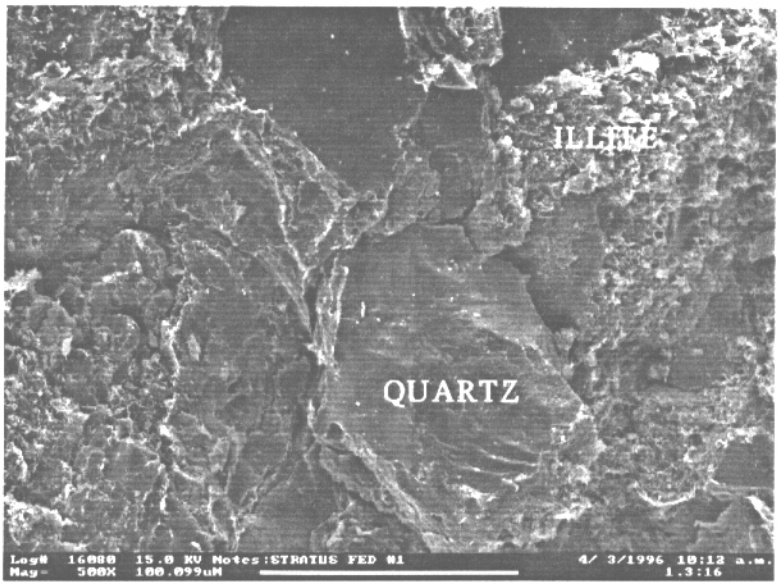


PHOTO C

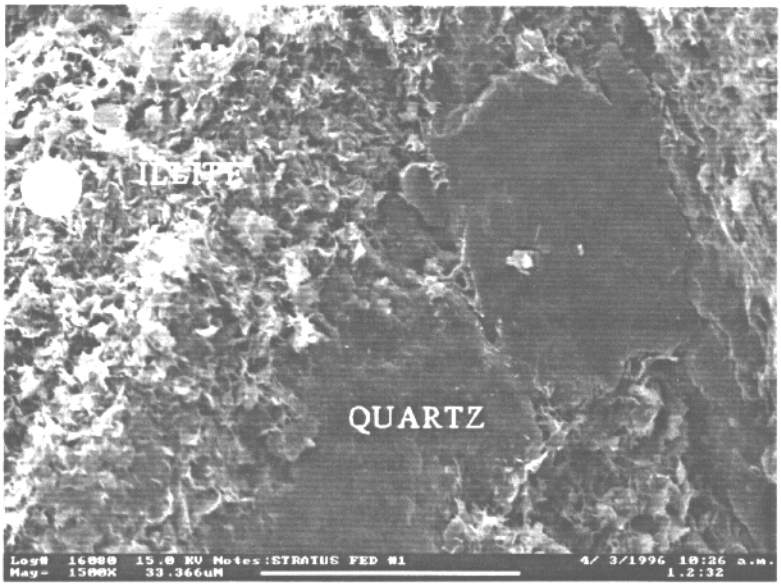
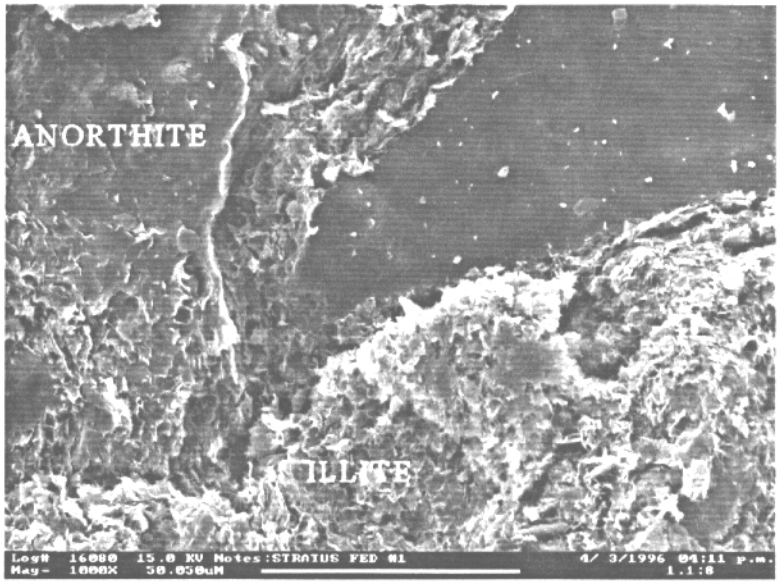


PHOTO D



16080.5 ft STRATUS FED #1 SWEETWATER CO., WYO FRONTIER FM

Perm. (Kv)=.02md Porosity=8.2%

PHOTO A

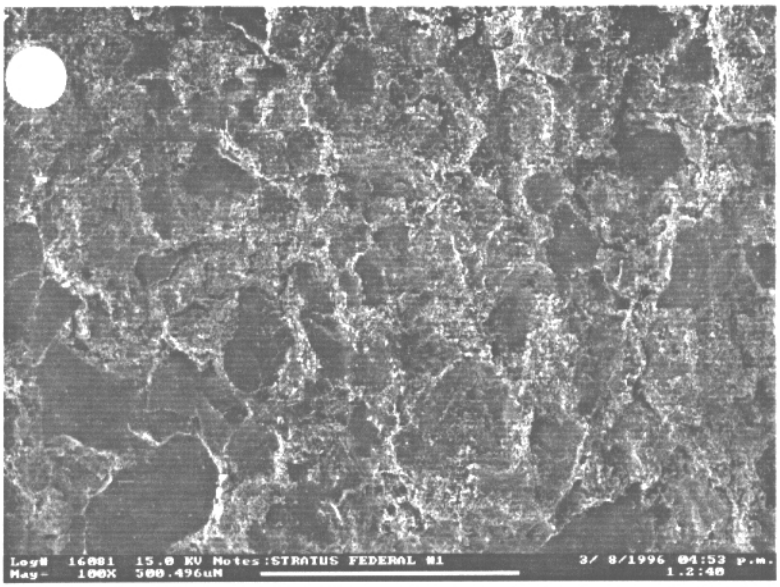


PHOTO B

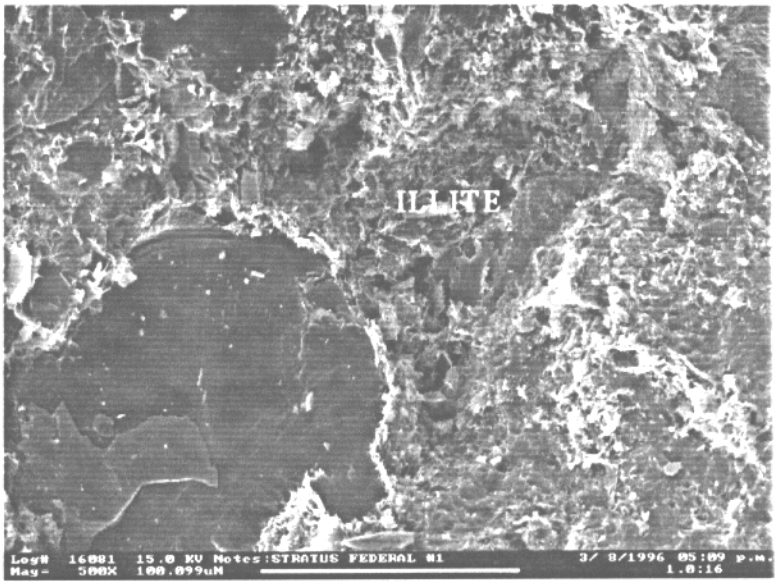


PHOTO C

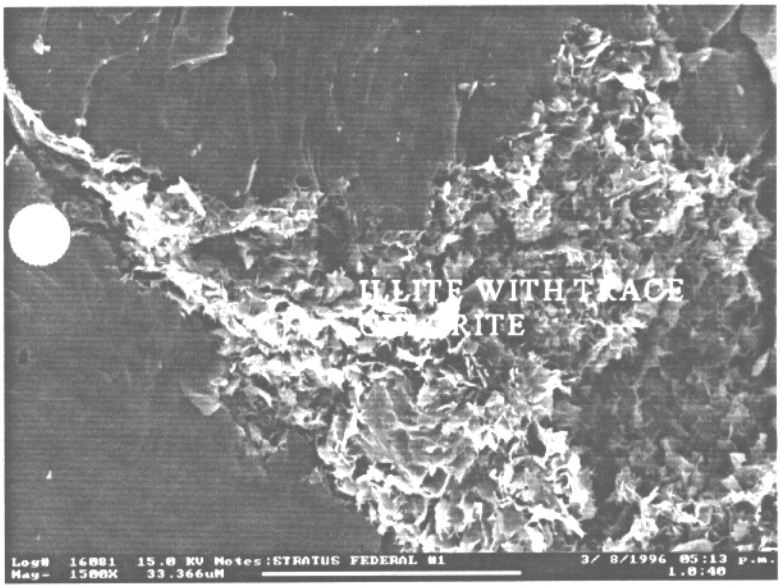
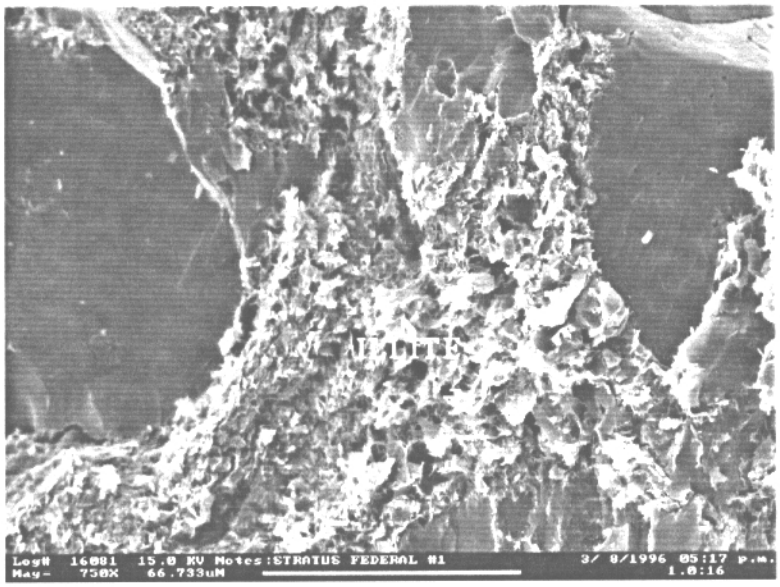


PHOTO D



16081.1 ft STRATUS FED #1 SWEETWATER CO.,TX FRONTIER FM

Overview of sample showsquartz and illite clay cementation (Photo A). Porosity limited due to large amounts of illite clay and quartz cementation (Photo B). Photos C and D shows quartz grains cemented with illite clay. Trace amounts of iron chlorite present (Photo C).

Perm.=.02 md (65 degrees) Porosity=8.8%