

AGE VOLUME DISPOSED 300 BPD
IMUM VOLUME DISPOSED 400 BPD
ECTION PRESSURE VACUUM
LOSED SYSTEM

PRODUCED WATERS BEING DISPOSED OF ARE FROM THE SAN ANDRES, ABO AND PENNSYLVANIAN. NO COMPATIBILITY TESTS HAVE BEEN TAKEN BUT THE FLUIDS HAVE EXHIBITED NO CHARACTERISTICS OF INCOMPATIBILITY IN THE FOUR PLUS YEARS OF OPERATIONS BY MR. TIPTON. THERE IS NO SCALING NOR SEDIMENTS IN THE RECEIVING OR INJECTION TANKS AT THE FACILITY AND THE INJECTION WELL HAS MAINTAINED 18 - 20 INCHES OF VACUUM DURING THIS FOUR YEAR PERIOD.

THE ATTACHED ANALYSIS OF DEVONIAN WATER FROM A WELL IN SECTION 14 INDICATES CHLORIDES OF 24,000 PPM. PENNSYLVANIAN WATERS NORMALLY HAVE CHLORIDES OF AROUND 30,000, ABO AROUND 25,000 AND SAN ANDRES 34,000 PPM.

ALTHOUGH THE WELL HAS COLLAPSED PIPE AT AROUND 5000 FEET, INJECTED WATER IS BEING DISPOSED OF IN THE DEVONIAN. THE DEVONIAN IS THE ONLY FORMATION IN THE AREA THAT WILL TAKE WATER ON A VACUUM. MR. TIPTON WILL NOT INJECT ANY WATER IF PRESSURE IS NECESSARY. THE WELL WILL BE TREATED EVERY SIX MONTH WITH 1000 GALS. 15% ACID.

INJECTION ZONE INFORMATION

DEVONIAN:

TOP - 11,091'
THICKNESS - NOT COMPLETELY PENETRATED BY ANY WELL IN THE AREA,
ESTIMATED THICKNESS 450'
LITHOLOGY - VUGGY DOLOMITE

PENNSYLVANIAN:

TOP - 8668'
THICKNESS - 1762'
1302' TO TOP OF CEMENT
LITHOLOGY - SHALE, SANDY LIMESTONE, WITH TIGHT SAND STRINGERS

WOLF CAMP:

TOP - 8153'
THICKNESS - 514'
LITHOLOGY - DENSE LIMESTONE WITH SHALE STRINGERS

ABO:

TOP - 7180'
THICKNESS - 972'
LITHOLOGY - SHALE, DENSE SANDY LIMESTONE

TUBB:

TOP - 6317'
THICKNESS - 863'
LITHOLOGY - SHALE, SHALY SANDSTONE, DENSE SANDY LIMESTONE

CLEARFORK [BLINEBRY]:

TOP - 5624'
THICKNESS - 693'
LITHOLOGY - DENSE SHALY SANDSTONE, SHALE AND LIMESTONE

GLORIETA:

TOP - 4853'
THICKNESS - 771'
LITHOLOGY - SHALE, SHALY LIMESTONE