

Pennzoil

Andrews

TX 79714

Report Date: January 1, 1993

Lab In Date: December 29, 1992

Sample Date: December 28, 1992

RECEIVED

Dear

MAY 10 '94

Listed below please find our water analysis report from Hackberry Hill

. #1

O. C. D.
ARTESIA OFFICE

Specific Gravity:	1.004
Total Dissolved Solids:	5057
PH:	6.40
Ionic Strength:	.099

CATIONS:

		mg/liter
Calcium:	(Ca++)	380
Magnesium:	(Mg++)	97
Sodium:	(Na+)	1351
Iron (Total)	(Fe++)	4.30
Barium	(Ba++)	.10
Manganese:	(Mn++)	1.59
Resistivity:		

ANIONS:

Sicarbonate:	(HCO3-)	488
Carbonate:	(CO3--)	0
Hydroxide:	(OH-)	0
Sulfate:	(SO4--)	50
Chloride:	(Cl-)	2700

GASES:

Carbon Dioxide:	(CO2)	*****
Oxygen:	(O2)	*****
Hydrogen Sulfide:	(H2S)	*****

SCALE INDEX (Positive Value Indicates Scale Tendency) * indicates tests were not run.

Temperature		CaCO3 SI	CaSO4 SI
88F	30.00	-.15	-27.24
104F	40.00	.18	-27.78
122F	50.00	.37	-27.78
140F	60.00	.53	-27.24
168F	70.00	.78	-26.14
176F	80.00	1.01	-24.41

If you have any questions or require further information, please contact us.

Sincerely,

Sharon Wriant
Laboratory Technician

cc:

cc:

Paul Mason