

HALLIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES

MIDLAND DIVISION

HOBBS, NEW MEXICO 88240

033380

LABORATORY WATER ANALYSIS

No. W81-374To Harper Oil CompanyDate 5-7-81904 Hightower BuildingOklahoma City, Oklahoma 73702

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Submitted by _____ Date Rec. 5-7-81Well No. Warfield State #1-Y Depth 9,995' Formation Bough "C"County Lea Field Ranger Lake Source DST #2

	<u>Sampler</u>	<u>Tool Top</u>	<u>Top of Fluid</u>
Resistivity	<u>0.089 @ 74°F.</u>	<u>0.088 @ 74°F.</u>	<u>0.149 @ 74°F.</u>
Specific Gravity	<u>1.077</u>		
pH	<u>6.2</u>		
Calcium (Ca)	<u>9,600</u>		<u>*MPL</u>
Magnesium (Mg)	<u>Nil</u>		
Chlorides (Cl)	<u>66,000</u>	<u>66,000</u>	<u>36,000</u>
Sulfates (SO ₄)	<u>1,400</u>		
Bicarbonates (HCO ₃)	<u>245</u>		
Soluble Iron (Fe)	<u>60</u>		

Fluid Change - Res. @ 74°F. - 0.089 Chlorides, mpl - 66,000

Pit Sample - Res. @ 74°F. - 0.150 Chlorides, mpl - 36,000

Remarks:

*Milligrams per liter

Respectfully submitted,

Analyst: Brewer

HALLIBURTON COMPANY

By W. J. Zewer

CHEMIST

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