

Department of Mines, Mining and Geology

STATE DIVISION OF CONSERVATION

A. S. Furcron, Director

19 Hunter Street, S.W.

Atlanta, Georgia 30334

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WATER ANALYSIS

Laboratory No. 11942

Date August 17, 1970

County Glynn

Location Wellhead 3980-4068 ft. Bottom

Pan American, #1 Union Camp

Owner

Address

Collected by

Submitted by: W. E. Marsalis, Dept. of Mines

(PARTS PER MILLION)

Silica (SiO <sub>2</sub> )	10	Carbonate (CO <sub>3</sub> )	0
Iron (Fe)	(filtered) 3	Bicarbonate (HCO <sub>3</sub> )	183
Calcium (Ca)	780	Sulphate (SO <sub>4</sub> )	216
Magnesium (Mg)	175	Chloride (Cl)	20,000
Sodium (Na)	12,000	Fluoride (F)	0
Potassium (K)	160	Nitrate (NO <sub>3</sub> )	0
Total dissolved solids	33,330	Suspended Matter	large amount
Total hardness as CaCO <sub>3</sub>	2,670	Color	5 (filtered)
Turbidity (as SILICA)	large amount	Ph value	7.2 (alkaline)
Total Alkalinity	150	Tannins	0

Remarks:

By J. R. Landrum, Chemist

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WATER ANALYSIS

Laboratory No. 11940

Date August 17, 1970 County Glynn

Location Wellhead, 3980-4068 ft. Top

Pan American, #1 Union Camp

Owner

Address

Collected by

Submitted by: W. E. Marsalis, Dept. of Mines

(PARTS PER MILLION)

Silica (SiO <sub>2</sub> )	10	Carbonate (CO <sub>3</sub> )	0
Iron (Fe) (filtered)	0.5	Bicarbonate (HCO <sub>3</sub> )	161
Calcium (Ca)	550	Sulphate (SO <sub>4</sub> )	315
Magnesium (Mg)	126	Chloride (Cl)	20,000
Sodium (Na)	9,000	Fluoride (F)	1
Potassium (K)	130	Nitrate (NO <sub>3</sub> )	0
Total dissolved solids	30,000	Suspended Matter	large amount
Total hardness as CaCO <sub>3</sub>	1,890	Color	80 (filtered)
Turbidity (as SILICA)	Large amount	Ph value	7.4 (alkaline)
Total Alkalinity	132	Tannins	slight

Remarks:

By J. R. Landrum, Chemist

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WATER ANALYSIS

Laboratory No. 11941 Date August 17, 1970 County Glynn  
Location Wellhead 3980-4068 ft. Middle  
Pan American, #1 Union Camp

Owner

Address

Collected by

Submitted by: W. E. Marsalis, Dept. of Mines

(PARTS PER MILLION)

Silica (SiO <sub>2</sub> )	10	Carbonate (CO <sub>3</sub> )	0
Iron (Fe) (filtered)	2	Bicarbonate (HCO <sub>3</sub> )	178
Calcium (Ca)	736	Sulphate (SO <sub>4</sub> )	247
Magnesium (Mg)	165	Chloride (Cl)	20,000
Sodium (Na)	10,500	Fluoride (F)	0
Potassium (K)	100	Nitrate (NO <sub>3</sub> )	0
Total dissolved solids	31,850	Suspended Matter	large amount
Total hardness as CaCO <sub>3</sub>	2,518	Color	5 (filtered)
Turbidity (as SILICA)	large amount	Ph value	7.0 (neutral)
Total Alkalinity	146	Tannins	0

Remarks:

By J. R. Landrum, Chemist