

PAN AMERICAN PETROLEUM CORPORATION  
RESEARCH CENTER  
WATER ANALYSIS

LOCATION SAMPLED: Division Fort Worth District Lubbock Area Hobbs  
Operator (Plant) Pan American Well No. 24 Lease Myers "B"  
State (Province) New Mexico County (Parish) Lea  
Twp.  Rng.  Sec.  Quarter (Lsd.)  Other (Meridian)   
Field name Fowler Blinebry Wildcat ( ) Field Well ( ☒ )  
Sample collected from  Sample used for detailed analyses   
Interval sampled  to  Sample collected by T. W. Wilson Date   
Recovery   
Form 97 transmitted by V. E. Staley Date transmitted 8-3-67 File: VEB-316-538  
Technical Service request authorized by  Office   
Technical Service Number: 3094

ORGANIC CONSTITUENTS in mg/1

BOTTOM MIDDLE TOP MUD

Benzene				
Toluene				
Phenols				
HC Gases				

DESCRIPTION OF SAMPLE

Condition as received   
Color   
Odor   
Suspended solids   
Bottom sediment   
Oil content

QUALITY OF SAMPLE

Chloride  BOTTOM MIDDLE TOP  
ion mg/1:   
Comments on quality

CONVENTIONAL MAJOR ION ANALYSIS

		Major Ions mg/1 <sup>1</sup>	% of Total Major Ions	Reaction Value meq/1 <sup>2</sup>	% of Total Reaction Value
CATIONS	Sodium Na <sup>+</sup>	30.813	34.11	1,340.38	43.63
	Calcium Ca <sup>++</sup>	2,760	3.06	137.72	4.48
	Magnesium Mg <sup>++</sup>	708	.78	58.20	1.89
	Potassium K <sup>+</sup>				
ANIONS	Chloride Cl <sup>-</sup>	50,700	56.13	1,429.74	46.53
	Bicarbonate HCO <sub>3</sub> <sup>-</sup>	1,044	1.16	17.12	.56
	Sulfate SO <sub>4</sub> <sup>-</sup>	4,300	4.76	89.44	2.91
	Carbonate CO <sub>3</sub> <sup>-</sup>	0	0	0	0
	TOTAL	90,325			

Total solids by evaporation 90,440 mg/1  
NaCl resistivity equivalent (Dunlap) 87,983 mg/1  
Resistivity .088 ohm-meters at 77 °F  
pH 7.1 Specific gravity 1.064 at  °F  
Ryznar stability index (2pHs-pH)  at  °F

OTHER IONS AND DISSOLVED SOLIDS

CATIONS	mg/1	ANIONS	mg/1	OTHERS	mg/1
Lithium Li <sup>+</sup>		Bromide Br <sup>-</sup>		Iron Fe	
		Iodide I <sup>-</sup>		Boron B	
				Silica SiO <sub>2</sub>	

<sup>1</sup> Data previously reported on Form 66 7-62 under the heading P.P.M. was actually in milligrams per liter. By definition, ppm = mg/1 /sp. gr.  
<sup>2</sup> meq/1 means milligram equivalents per liter.

REMARKS AND CONCLUSIONS:

cc:  Date received 8-22-67 Field sample no.   
Analyst *W. E. Staley* Lab. no. T-18716  
Date 9-6-67