## PAIN AMERICAN PETROLEUM CORPORATION RESEARCH CENTER WATER ANALYSIS

LOCATION SAMPLED: Division Fort Wort		ubbock	Area	аббон		
Operator (Plant) Pan American State (Province) New Mexico	Weil No	LeaseS	outh Matt	ix Unit		
State (Province) 1997 Mexico	County (Parish) Lea					
Twp. Rng. Sec			Wildcox	/ \ TialJ	Well (X )	
Field name Fowler Ellerburger	Sa	imple used for	detailed and	alvses		
Sample collected from	$\_$ Sample collected by $\_$ $ extstyle  extst$	<u> W. Wilson</u>	]	Date		
Interval sampledto	Interval_name					
Recovery						
Form 97 transmitted by V. E. Staley	Date transn	mitted <u>8-3</u> .	<u>-67, File</u>	:: VES-317-5	538	
Technical Service request authorized by						
	Te	chnical Service	Number: _	3094		
ORGANIC CONSTITUENTS in mg/1	CUI	NVENTIONALI	MAIDE JON	ANALVEIC		
Benzene BOTTOM MIDDLE TOP MUD		CONVENTIONAL MAJOR ION ANALYSIS				
Toluene	-	Major	% of Total	Reaction	% of Total	
Phenols	-	lons	Major	Value	Reaction	
HC Gases	Sodium Na+	mg/11 59,642	lons	meq/1 <sup>2</sup> 2,594,42	Value	
9	Calcium Ca++		7.54	753.49		
	Magnesium Mg++	1,660	<del></del> 83	136.45		
	· Potassium K+				1.96	
DESCRIPTION OF SAMPLE	Chloride C1	123,000	61.45	3,468.60	10 55	
DECORM FIOR OF CAMP EL	Bicarbonate HCO <sub>3</sub>		.04	1.20		
Condition as received	Sulfate SO,	700		14.56		
Color			0	0	0	
Odor	TOTAL	200,175				
Suspended solids	_	,	-			
Bottom sediment	Total solids by evapo	oration		207,000	mg/l	
Oil content	NaCl resistivity equiv			<u>200,677</u>	mg/1	
QUALITY OF SAMPLE					°F	
Chloride BOTTOM MIDDLE TOP	pH 5.9 Spo	ecific grávity _1	L <u>. 140</u> at <sub>-</sub>	· · · · · · · · · · · · · · · · · · ·	°F	
in (1)	_ Ryznar stability index	$x (2pHs-pH)_{-}$	at _	· · · · · · · · · · · · · · · · · · ·	°F	
Comments on quality	- ೧ <b>۲</b> -	ER IONS AND	DISSOLVE	n coline		
Somments on quarty		ANIONS			mg/1	
	Lithium Li+	Bromide Br		Iron Fe	ilig/ i	
		Iodide I		Boron B	· · · · · · · · · · · · · · · · · · ·	
				Silica SiO <sub>2</sub>	<del></del>	
					· · · · · · · · · · · · · · · · · · ·	
					-	
Data previously reported on Form 66 7-62 under the hearmed/I means milligram equivalents per liver	diag PPM	****	~			
2 meq/1 means milligram equivalents per liter.	iding r.r.wi. was actually in mi	illigrams per litei	r. By definitio	n, ppm = mg/1	/sp. gr.	
DEMARKS AND CONCLUSIONS						
REMARKS AND CONCLUSIONS:						
		· · · · · · · · · · · · · · · · · · ·				
cc: Date re	eceived 8-22-67	Field sample				
	n 0	Lab. no		71'7		
Analysi	: World		D	ate 9-6-	67	