Martin Water Laboratories, Inc.

P. O. BOX 1468 MONAHANS, TEXAS 79756 PH 943-3234 OR 563-1040

709 W. INDIANA MIDLAND. TEXAS 79701 PHONE 683-4521

## RESULT OF WATER ANALYSES

TO: <u>3M Energy Corporation</u> P. O. Box 3986, San Angelo, TX 76902-3986		LABORATORY NO.	11.0	11-3-93	
		RESULTS REPORTED.			
COMPANY <u>3M Energy Coporation</u>		LEASE			
FIELD OR POOL					
SECTION BLOCK SURVEY T-25S&R-	<u>32W</u> _ COUNTY	LeaSTAT	ENM		
SOURCE OF SAMPLE AND DATE TAKEN:			11NG	CEIVE	
NO.1 Produced water - taken fro	m E. F. Ray.				
NO.2 Produced water - taken fro	m G. E. Jorda	an.		<b>C</b> (1)	
NO. 3				4 <u>17</u>	
NO. 4		······		and the second se	
REMARKS:		········			
CHE	MICAL AND PHYSIC	CAL PROPERTIES			
	NO. 1	NO. 2	NO. 3	NO. 4	
Specific Gravity at 60° F.					
pH When Sampled					
pH When Received	5.76	6.11			
Bicarbonate as HCO,					
Supersaturation as CaCO,					
Undersaturation as CaCO,					
Total Hardness as CaCO,					
Calcium as Ca					
Magnesium as Mg					
Sodium and/or Potassium		+ + +			
Sulfate as SO,	378	291			
Chloride as Cl	116,471	99,427			
'ron as Fe					
Barium as Ba					
Turbidity, Electric					
Color as Pt					
Total Solids, Calculated					
Temperature °F.					
Carbon Dioxide. Calculated					
Dissolved Oxygen,					
Hydrogen Sulfide					
Resistivity, ohms/m at 77° F.					
Suspended Oil					
Filtrable Solids as mg/l					
Volume Filtered, mi					
Total Dissolved Solids @ 180°C.	191,190	160,230			
10001 910001 Ved Dollids ( 100 C.	1)1,190	100,230			
	Results Reported As Milli	grams Per Liter			
Additional Determinations And Remarks The undersit			he true and		
the best of his knowledge and be	liof	s the above to	be true and c	orrect to	
ene best of his knowledge and be	<u></u>				
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Form No. 2			1 - 1 - M		
form No. 3		By	Man Law		

Waylan C. Martin, M.A.