

CARDINAL CHEMICAL, INC.

P. O. Box 2049

ODESSA, TEXAS

DIVISION OFFICE Phone: EMerson 6-4451

4-26-61

5-1-61

RESEARCH LABORATORY

Phone: FEderal 2-7324

WATER ANALYSIS

Company **Texas Pacific Coal & Oil Company** County **Lea** Lease **State "AB"**
 Address **200 S. Fowler**
Hobbs, New Mexico Field **Vacuum** Well No. **#1**
 Formation **ABO** Depth **8916**
 Attention **Mr. Don Teague**
 Recent Treatments Date Sampled **4-26-61** Sample Point **tank**

CONSTITUENTS DETECTED
 (Reported as parts per Million)

Specific Gravity	1.155 @ 64°F	pH	6.3
Chloride	135,000	Calcium	17,880
Bicarbonate	180	Magnesium	4,152
Sulfate	400	Total Iron	67.5
Phosphate		Sodium	59,110
Total Hardness (as Ca CO ₃)	62,000	Sulfide	none detected

TOTAL DISSOLVED SOLIDS 216,789

	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	
Na 1000																		Cl 1000
Ca 100																		HCO ₃ 100
Mg 100																		SO ₄ 100

Remarks:

JR/ps

3cc: Mr. Don Teague

Analyst Jed Rueter

1. The first step in the process of identifying a problem is to define the problem. This involves identifying the symptoms of the problem and determining the scope of the problem. Once the problem has been defined, the next step is to identify the causes of the problem. This involves identifying the factors that are contributing to the problem and determining the root cause of the problem. Once the causes of the problem have been identified, the next step is to develop a plan to address the problem. This involves identifying the actions that need to be taken to address the problem and determining the resources that are needed to implement the plan. Once a plan has been developed, the next step is to implement the plan. This involves taking the actions that are outlined in the plan and monitoring the progress of the plan. Finally, the last step in the process is to evaluate the results of the plan. This involves determining whether the plan has been successful in addressing the problem and identifying any lessons learned from the process.

2. The second step in the process of identifying a problem is to identify the causes of the problem. This involves identifying the factors that are contributing to the problem and determining the root cause of the problem. Once the causes of the problem have been identified, the next step is to develop a plan to address the problem. This involves identifying the actions that need to be taken to address the problem and determining the resources that are needed to implement the plan. Once a plan has been developed, the next step is to implement the plan. This involves taking the actions that are outlined in the plan and monitoring the progress of the plan. Finally, the last step in the process is to evaluate the results of the plan. This involves determining whether the plan has been successful in addressing the problem and identifying any lessons learned from the process.

3. The third step in the process of identifying a problem is to develop a plan to address the problem. This involves identifying the actions that need to be taken to address the problem and determining the resources that are needed to implement the plan. Once a plan has been developed, the next step is to implement the plan. This involves taking the actions that are outlined in the plan and monitoring the progress of the plan. Finally, the last step in the process is to evaluate the results of the plan. This involves determining whether the plan has been successful in addressing the problem and identifying any lessons learned from the process.

4. The fourth step in the process of identifying a problem is to implement the plan. This involves taking the actions that are outlined in the plan and monitoring the progress of the plan. Finally, the last step in the process is to evaluate the results of the plan. This involves determining whether the plan has been successful in addressing the problem and identifying any lessons learned from the process.

5. The fifth step in the process of identifying a problem is to evaluate the results of the plan. This involves determining whether the plan has been successful in addressing the problem and identifying any lessons learned from the process.

6. The sixth step in the process of identifying a problem is to identify the causes of the problem. This involves identifying the factors that are contributing to the problem and determining the root cause of the problem. Once the causes of the problem have been identified, the next step is to develop a plan to address the problem. This involves identifying the actions that need to be taken to address the problem and determining the resources that are needed to implement the plan. Once a plan has been developed, the next step is to implement the plan. This involves taking the actions that are outlined in the plan and monitoring the progress of the plan. Finally, the last step in the process is to evaluate the results of the plan. This involves determining whether the plan has been successful in addressing the problem and identifying any lessons learned from the process.