

Lime Mixing Bay Memorandum

To: File

From: Kael Hanak

Date: June 15th/09

RE: Lime Mixing Bay (Capital Improvement/Upgrade)

Site Layout: The Lime mixing bay is housed in a building within the town of Elsa. It is 35' * 60' and is 14' tall.

Historical Reasoning Behind Upgrade: The previous facility was housed in the existing location as well as the adjacent building known as the "Transport Shop" at Elsa YT. Its workings were made up of two separate water tanks and one small lime mixing tank, an open air auger and a sub-par station where the bags were accessed. Also, two different water pumps were used which were both old and long past their time from a performance/efficiency standpoint.

Due to these reasons both ERDC and INAC saw this facility as a liability and designed a new, safer facility for those working in this environment.

This Memorandum is meant to address the capital improvements that were applied to the current "Lime Mixing Bay" location and manner that this facility is used. This work was carried out by employees of ERDC in the town of Elsa YT. There were a number of upgrades that were undertaken on this project, these included:

- The re-location of the actual mix/water storage tanks
- The addition of a new, highly efficient centrifugal pump
- A new water storage tank
- A new in-ground lime mixing tank
- Rehabilitation of Existing 2" Line For Accessing Water

This “Capital Improvement/Upgrade” was executed to necessitate, primarily, the safety and wellbeing of the employees under the employ of Alexco Resource Corp. Also, the efficiency in which this daily task is undertaken has been heavily improved by way of efficiency and ease of use for both the employees and the company at large. As seen in the photos below this process has been consolidated, which decreases its actual footprint, as well as, makes the working environment much more cleanly and safe.

Photos Can Be Seen Below

Figure 1: Example Of Completed New System



Figure 2: New Larger Water Storage Tank For Increased Capacity



Figure 3: In-Ground Tank To Increase Ease Of Use And Safety Of Workforce



Figure 4: New Pump For Water Transfer From Water Storage Tank To Lime Mixing Tank



Figure 5: Exhaust Fan For Lime Dust Reduction In The Workplace Environment



Figure 6: Safety Platform and Shut-off Latch, In-ground Lime Mixing Tank, Centrifugal Pump, and Exhaust Fan

