

# LARAMIE ENERGY, LLC

OXY Mesa WS Pond 13E (414403) and OXY Mesa WS Pond 13W (414404)

## CLOSURE REPORT

### Chronological Report

\*\*\* Disposal Facilities used during pond closure

Waste characterization was submitted and approved to Greenleaf Environmental Services, LLC in Mesa County CO to haul pond bottoms to disposal.

Liner material impacted by pond bottoms was hauled to RNI Industries E&P Disposal Wonsits Facility in Uintah County, UT.

Liner not impacted by pond bottoms and clean was hauled to Garfield County Landfill.

#### Date

- 7/24/17 In preparation of removing solids from Ponds 13E and 13W, HRL compliance gathered composite pond bottom samples from both ponds (see map) and sent to ALS for analysis. See document numbers (401763544,401763546, 40163547) for analytical results. Laramie made the determination to haul the material to an E&P disposal facility instead of attempting to land farm onsite. A waste characterization was submitted to Greenleaf Environmental and subsequently approved.
- 8/1- 9/12/17- Scraped and hauled sediment on top pond of liners to Greenleaf Environmental Services. Total recorded volume sent to Greenleaf is 2798 yds (Greenleaf Tickets)
- Construct bermed lined storage area adjacent to ponds to allow for sediment impacted liner storage and allow for truck loadout to disposal facilities.
- Cut clean liner in small pieces, roll, and stack on bank in preparation to haul to land fill.
- Liner with remaining sediment bottoms on it was slowly rolled back while carefully removing the impacted sediment and material. Impacted liner and material removed to bermed containment for load out to disposal.
- 8/31/17: COGCC inspection (69030045) and photos. Inspector satisfied with work, commented Pit bottoms were exposed and showed no indication of staining and odor.
- 9/12-9/26/17: Hauled liner with impacted sediment to RNI Industries E&P Disposal Wonsits Facility in Uintah County, UT. Total volume hauled to disposal 76 transports of loose liner material.

Sample Dates for Pond Bottom after Liner Removal:

Pond 13E: Composite Sample Date August 8, 2017 (Doc No. 401763551 and 401763549)

Pond 13W: Composite Sample Date August 23, 2017 (Doc. No 401763554 and 401763559)

Pond 13 E: Sample results were below COGCC Table 910-1 standards for TPH and BTEX. Arsenic was high which is not uncommon of the Piceance Basin and the Green River Formation. EC and SAR were also high but once the pond is back filled for final abandonment in the future, these constituents will be buried under ~11-15' of overburden.

Pond 13 W: Again, sample results were below COGCC Table 910-1 standards for TPH and BTEX. Arsenic was high which is not uncommon of the Piceance Basin and the Green River Formation. EC and SAR were also high but once the pond is back filled for final abandonment in the future, these constituents will be buried under ~11-15' of overburden.