



Linn Engineering, Inc.

Civil Engineering Consultants

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534 Market Street • P.O. Box 2086 • Zanesville, Ohio 43702-2086

August 26, 2014

Beth A. Pratt, PE
DOGRM Engineer
Division of Oil and Gas Resources Management
Ohio Department of Natural Resources
2045 Morse Road, Bldg. F2
Columbus, OH 43229

**Re: Applications to Operate a Facility
E & R Energy Resources, LLC
Muskingum County**



Dear Beth,

The plan has changed significantly since your review; E&R Energy Services has since decided to remove solidification from their scope of services. I have numbered my responses to correspond with your bullet points for clarity.

In accordance with comments received by mail from you on June 24, 2014 the plans and specifications have been revised as follows:

Requirements for an application for a Chiefs order:

- ✓1. See attached General Aerial Location Map.
- ✓2. See revised flow process on sheet 3.
- 3. Ponds are no longer proposed for the treatment of the brine. The existing pond will only be used to control stormwater runoff from the site.
- 4. Estimated volume of materials managed note has been added to sheet 2 under facility capacity.
- ✓5. Solidification on-site is no longer proposed. There are no chemical reagents. *multiple tanks?*
- 6. Influent and Effluent Tracking note has been added to sheet 2.
- 7. Solidification on-site is no longer proposed, TENORM testing will be done at an approved off-site location. Solids / Sludge Waste Handling note has been added to sheet 2.

General Questions and Concerns:

- 8. Frac tanks shall only be connected together during pumping operations. Valves shall be used to isolate any tank in the event of a leak.
- 9. Ponds are no longer proposed for the treatment of the brine. The existing pond will only be used to control stormwater runoff from the site.
- 10. A geotechnical analyses was not performed, however, the embankment and compaction requirements note on sheet 2 use standard engineering practices.
- 11. Ponds are no longer proposed for the treatment of the brine. The existing pond will only be used to control stormwater runoff from the site. There is a typical diversion channel section on sheet 2 that will control surface runoff.
- 12. The proposed closure plan has been revised to reflect the absence of the previously proposed ponds. *no there is not!*

I have also included the SPPC plan for reference.

Sincerely,

Cody Ward

Cody Ward



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534 Market Street • P.O. Box 2086 • Zanesville, Ohio 43702-2086

October 13, 2014

Beth A. Pratt, PE
DOGRM Engineer
Division of Oil and Gas Resources Management
Ohio Department of Natural Resources
2045 Morse Road, Bldg. F2
Columbus, OH 43229



**Re: Applications to Operate a Facility
E & R Energy Resources, LLC
Muskingum County**

Dear Beth,

In accordance with comments received by email from you on September 29, 2014 the plans and specifications have been revised as follows:

I have numbered my responses to correspond with your paragraphs for clarity.

Requirements for an application for a Chiefs order:

- ✓ 1. The plan set has been updated to reflect the constructed conditions at the site.
- ✓ 2. E&R has been notified to install erosion control and any relevant BMP's to stabilize the site.
3. The capture volume of the concrete unload/load pad has been calculated (100 barrel truck) to show that the site is a zero discharge site. See table on sheet 3.
4. TENORM testing note has been updated on sheet 2. *need to clarify*

Additionally, the flow process has been clarified and a note for "Filter Pod Drain" has been added.

Sincerely,

Cody Ward
Cody Ward