

State of Colorado Energy & Carbon Management Commission

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Document Number: 403206532 Date Received: 02/23/2023

EARTHEN PIT REPORT / PERMIT

This form is to be used for both reporting and permitting pits. Rule 908 describes when a Permit with prior approval, or a Report within 30 days is required for pits. Submit required attachments and forms.

Form Type: [] PERMIT [X] REPORT ECMC PIT NUMBER: 489328

NOTE: Operator to provide ECMC Pit Number only if available on an existing pit for pit report

ECMC Operator Number: 96850 Contact Name: Michael Gardner
Name of Operator: TEP ROCKY MOUNTAIN LLC
Address: 1058 COUNTY ROAD 215 Phone: (970) 623-4875
City: PARACHUTE State: CO Zip: 81635 Email: mgardner@terraep.com

Pit Location Information

Operator's Pit/Facility Name: Fed 298-13-1 Drill Cuttings Trench Operator's Pit/Facility Number:
API Number (associated well): 05- 00
ECMC Location ID (associated location): 315513 Or Form 2A # 402932354
Pit Location (QtrQtr, Sec, Twp, Rng, Meridian): SESE-13-2S-98W-6
Latitude: 39.872520 Longitude: -108.336840 County: RIO BLANCO

Operation Information

Construction Date: 10/01/2022 Actual or Planned: Planned Pit Type: Unlined
Per rule 405.c: Operators will provide the Commission written notice 2 business days in advance of a Pit liner installation at any facility.
Pit Use/Type (Check all that apply):
[] Drilling: (Ancillary, Completion, Flowback, Reserve Pits) [] Oil-based Mud [] Salt Sections or High Chloride Mud
[] Production: [] Skimming/Settling [] Produced Water Storage [] Percolation [] Evaporation
[] Special Purpose: [] Flare [] Blowdown [] BS&W/Tank Bottoms
[] Multi-Well Pit: [] Check if Rule 909.g.(1-4) applies.
[X] Cuttings Trench
[] Form 15 Exception Pit Submitted within 30 Days after Constructing (908.c): [] Emergency [] Workover [] Plugging
Method of treatment prior to discharge into pit: De-watering, mixing/blending
Offsite disposal of pit contents: [] Injection; [] Commercial; [X] Reuse/Recycle; [] NPDES; Permit Number:
Other Information:
The purpose of this drill cuttings trench is to receive drill cuttings from 16 new wells to be drilled at the Federal 298-13-1 well pad (COGCC location ID 315513, OGDID ID 482485). The document number for the approved form 2A is 402932354. Drill cuttings will be treated (through mixing, blending, amending as needed) to meet COGCC 915-1 cleanup standards. Once the COGCC 915-1 cleanup standards have been met, the cuttings trench will be closed and interim reclamation will be performed as outlined in BMPs/COAs #13 thru #15 of the Form 2A (attached).

Site Conditions

Enter 5280 for distance greater than 1 mile.

Distance (in feet) to the nearest surface water: 2711 Ground Water (depth): 101 Water Well: 5277

Distance (in feet) to nearest Building Unit: 5280

Distance (in feet) to nearest Designated Outside Activity Area: 5280

Pit Design and Construction

Size of Pit (in feet): Length: 211 Width: 135 Depth: 19 Calculated Working Volume (in barrels): 63460

Flow Rates (in bbl/day): Inflow: 409 Outflow: _____ Evaporation: _____ Percolation: _____

Primary Liner. Type: Earthen pit Thickness (mil): 0

Operational Lifespan, per manufacturer's specs (years): 1000

Secondary Liner (if present): Type: none Thickness (mil): 0

Operational Lifespan, per manufacturer's specs (years): 1000

Is Pit Fenced? Yes Is Pit Netted? No Leak Detection? No

Pit Emissions

Attach Pit Emission Calculations.

Estimated tons per year (tpy) of volatile organic compounds (VOCs): 2 (Round to nearest whole ton.)

Other Information:

Air emissions from drill cuttings are considered to be "pre-production" phase and currently not regulated by CDPHE.

Operator
Comments:

Please forward to John Heil.

There will be no off-site disposal of drill cuttings trench contents. All drill cuttings will be treated to meet COGCC 915-1 cleanup standards and will be disposed of on-site. In compliance with Rule 911.a, a Form 27 will be submitted to document final closure of the Federal 298-13-1 drill cuttings trench, and to convey sampling data that supports closure of the cuttings trench.

Under the Pit Design and Construction Information section, the total trench capacity (including 2' of freeboard) is ~63,460 bbls. The total trench volume is 15,190 cu. yds.. Similarly, the daily flow rate has been estimated / converted from cubic yards to barrels. This calculated volume assumes an approximate drill time of 155 days required to drill the 16 new wells; therefore, the average daily volume of drill cuttings is ~409 bbls per day. In addition, the "Operational Lifespan per manufacturer specs (years)" is a required value to complete/submit this Form 15; however, this specification is not applicable to an earthen pit where there are no primary or secondary liners. Therefore, a default value of 1,000 years was used.

Please see the approved Form 2A and the Final Director's Recommendation of Approval for re-development of the Federal 298-13-1 well pad (see attached).

Attached is a site diagram showing the location of the cuttings pit as well as a waste management plan, both of which were also included in the approved Form 2A.

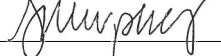
Certification

Rule 909.e.(3): If an Operator allows oil or condensate (free product or sheen) to accumulate in a Pit, then the Director may revoke the Operator's Form 15 and require the Operator to close and remediate the Pit.

I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete.

Signed: _____ Print Name: Kris Rowe
Title: TEP Environmental Email: krowe@terraep.com Date: 02/23/2023

Approval

Signed:  Title: Director of ECOM Date: 02/20/2025

Operator Best Management Practices

<u>No</u>	<u>BMP/COA Type</u>	<u>Description</u>

CONDITIONS OF APPROVAL, IF ANY LIST

<u>COA Type</u>	<u>Description</u>
	Operator shall submit a Form 27 Site Investigation and Remediation Plan addressing the BMP 13 (Cuttings management) on Form 2A Doc #403207134.
	Operator shall provide the actual volume of E&P Waste (Cuttings) disposed of in the cutting trench and list the APIs from which the cuttings originated from.
	Only Cuttings from the 16-wells drilled at the e Federal 298-13-1 well pad (COGCC location ID 315513) shall be received in the cuttings trench.
	Form 2A Doc #403207134 Best Management Practices states "Cuttings from each well will be placed in steel containment bins. Baseline samples of the cuttings will be collected to assess constituent levels listed in COGCC Table 915- 1, the cuttings pile will then be thoroughly mixed with clean fill material to create a composite of the stored materials prior to placement in the cuttings trench. This contingency Sampling of the water/bentonite based drill cuttings will occur regardless of whether the original "background" or "baseline" samples collected from each well drilled are compliant with Table 915-1. The 7-point composite from each well may be used for preliminary analysis and waste profiling; however, discrete sample results will be required for confirmation sampling. The operator will close out the cuttings trench with a Form 27. The operator will propose the number of discrete samples, the locations, and depth intervals for the confirmation samples in the Form 27. The depth intervals will be selected to provide sufficient coverage between 0 and 19 feet below the final top surface of the cuttings within the trench. Upon approval of the Form 27, TEP will collect the proposed samples and analyze them for the Table 915-1 constituents;"
4 COAs	

ATTACHMENT LIST

<u>Att Doc Num</u>	<u>Name</u>
403206532	PIT PERMIT SUBMITTED
403207132	CORRESPONDENCE
403207133	OTHER
403207134	SENSITIVE AREA DETERMINATION
403207135	DESIGN: PLAN AND CROSS SECTION
403329610	OTHER

Total Attach: 6 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Environmental	Since Fed 298-13-1 Drill Cuttings Trench has been constructed, ECMC has changed this from Pit Permit to Pit Report.	02/20/2025

Total: 1 comment(s)