

State of Colorado Energy & Carbon Management Commission

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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: [X] PERMIT [] REPORT ECMC PIT NUMBER: 487778

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

ECMC Operator Number: 66561 Contact Name: Matt Wells
Name of Operator: OXY USA INC
Address: PO BOX 173779 Phone: (720) 9293403
City: DENVER State: CO Zip: 80217-3779 Email: djregulatory@oxy.com

Pit Location Information

Operator's Pit/Facility Name: GLADE DRILLING PIT Operator's Pit/Facility Number: 1
API Number (associated well): 05- 00
ECMC Location ID (associated location): Or Form 2A # 403656949
Pit Location (QtrQtr, Sec, Twp, Rng, Meridian): NESE-2-3N-66W-6
Latitude: 40.252300 Longitude: -104.739700 County: WELD

Operation Information

Construction Date: 02/13/2025 Actual or Planned: Planned Pit Type: Lined
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):
[X] 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.
[] 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: Onsite Solids Control Eq
Offsite disposal of pit contents: [] Injection; [X] Commercial; [X] Reuse/Recycle; [] NPDES; Permit Number:
Other Information:
The pit will be part of the closed loop water-based mud system and will have an outflow and inflow rate at ~700 gpm while drilling. The pit will be filled prior to drilling and will not lose mud unless downhole losses are encountered. No produced fluid will be contained within the pit. Drilling returns (water-based mud) will be sent to this pit after going through solids control equipment to remove cuttings. Drill cuttings will be disposed of at a licensed commercial landfill (Front Range Landfill). Drilling fluids will be recycled at the Oxy Aggregate Recycle Facility (E&P Waste Management Facility ID: 456644).
This pit is the same as the Temporary Cooling Pit identified on the GLADE Layout Drawings.

Site Conditions

Enter 5280 for distance greater than 1 mile.

Distance (in feet) to the nearest surface water: 935 Ground Water (depth): 60 Water Well: 1367

Distance (in feet) to nearest Building Unit: 1343

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

Pit Design and Construction

Size of Pit (in feet): Length: 238 Width: 147 Depth: 6 Calculated Working Volume (in barrels): 20812

Flow Rates (in bbl/day): Inflow: 24000 Outflow: 24000 Evaporation: 90 Percolation: 0

Primary Liner. Type: RPE (Reinforced Polyethylene) Thickness (mil): 40

Operational Lifespan, per manufacturer's specs (years): 20

Secondary Liner (if present): Type: _____ Thickness (mil): _____

Operational Lifespan, per manufacturer's specs (years): 0

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

Pit Emissions

Attach Pit Emission Calculations.

Estimated tons per year (tpy) of volatile organic compounds (VOCs): 0 (Round to nearest whole ton.)

Other Information:

0.04081 tpy VOC

Operator Comments:

Please send any correspondence about this Form to DJREGULATORY@OXY.COM and MATTHEW_WELLS@OXY.COM

Pit depth of 6.5' and will maintain at least 2' of freeboard throughout. Shown on Pit Cross Section Attachment. Webforms would not allow me to enter 6.5' on the Conditions/Designs& Construction tab (received an error and could not submit). So 6' was entered to satisfy the error. Pit Exterior dimensions are 238'x147'. Internal dimensions are 150'x55'.

Certification

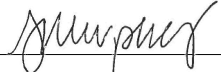
Rule 909.e.(3): If an Operator allows oil or condensate (free product or sheen) to accumulate in a Pit, then the Director may revoke the Operator's Form 15 and require the Operator to close and remediate the Pit.

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

Signed: _____ Print Name: Matt Wells

Title: Regulatory Advisor Email: djregulatory@oxy.com Date: 08/28/2024

Approval

Signed:  Title: Director of ECMC Date: 09/10/2024

Best Management Practices

No	BMP/COA Type	Description
1	General Housekeeping	The Pit will not be utilized longer than three years, unless otherwise approved of by ECMC.
2	Wildlife	A wildlife exclusion fence and netting (or a CPW-approved wildlife exclusion device) will be installed around and over the Pit, pursuant to Rule 1202.a.(4).
3	Storm Water/Erosion Control	Some of the soil from the pit will be used to construct the perimeter berms. The internal slope faces will be protected by the HDPE liner. And external berm face will be track packed and consolidated to prevent erosion. The excess pit soil will be stockpiled on east side of well pad and will be stabilized by straw crimping. The cooling pit soil stockpile will be included in Oxy Stormwater Management program and will be inspected with CDPHE construction stormwater frequency.

4	Material Handling and Spill Prevention	There will be a report of any unauthorized Release of Fluids from a Pit pursuant to Rule 912.`
5	Construction	The Pit will be constructed, lined, operated, and maintained pursuant to Rules 909 and 910. All manufacture's specifications on constructing, installation, and maintenance activities will be followed as well as good engineering practices. Testing results and repair documentation and dates will be maintained and available for inspection, as requested.`
6	Construction	A 147'x238' (exterior dimensions) earthen Pit, 6.5 feet deep (minimum) will be constructed with a synthetic 40 MIL liner that also allows for 2' of freeboard. The 2' freeboard will be maintained and monitored through the life of the Pit. The foundation of the liner will not have any sharp debris and will have a minimum thickness of 12 inches after compaction.`
7	Odor mitigation	The Pit will be maintained hydrocarbon free and of any other oil and gas liquids.`
8	Final Reclamation	The Pit will be sampled to ensure that any soil left in place meets the cleanup concentrations listed in Table 915-1. A sufficient number of representative samples from locations beneath the Pit will be collected that demonstrate that no leakage of managed fluids has occurred. Once laboratory analysis is back, results will be submitted via Supplemental Form 27 with a request for a final approval for pit closure and reclamation.`
9	Final Reclamation	Interim/Final grading and recontour of the entire location and access road will be completed once the Pit has been closed and seeded (with an approved seed mix) and storm water stabilization will follow after re-spreading of topsoil. The closed pit will not be re-disturbed during the interim or final reclamation phases.`
10	Final Reclamation	At time of closure, the Pit will be graded to the contour of the well pad and backfilled and compacted with clean fill generated in the construction of the well/pit location. The fence and netting will be removed.`
11	Final Reclamation	The constructed soil liner will be either removed for treatment and disposal, or, if left in place the material will be ripped and mixed with native soils in a manner to alleviate compaction and prevent an impermeable barrier to infiltration and groundwater flow.`
12	Final Reclamation	The synthetic liner will be removed and disposed of pursuant to all state and federal requirements for Solid Waste Disposal.`

Total: 12 comment(s)

CONDITIONS OF APPROVAL, IF ANY LIST

<u>COA Type</u>	<u>Description</u>
	With the 27-Initial Operator shall provide a waste characterization sample and/or an SDS for materials that were contained in the pit. In addition to the SDS, Operator shall provide a proposed list of potential contaminants of concern.
	At time of construction, Operator shall conduct background sampling from a minimum of five separate locations as an initial characterization and should be obtained from representative depths and soil horizons or lithologic materials. Samples shall be analyzed for 915-1 metals and soil suitability parameters.
2 COAs	

ATTACHMENT LIST

<u>Att Doc Num</u>	<u>Name</u>
403750374	PIT PERMIT SUBMITTED
403750520	PIT EMISSION CALCULATIONS
403750522	SENSITIVE AREA DETERMINATION
403762937	DESIGN: PLAN AND CROSS SECTION
403903148	DETAILED SITE PLAN

Total Attach: 5 Files

General Comments

User Group	Comment	Comment Date
Environmental	In accordance with Rule 911.a.(1) Operators will obtain the Director's approval of a Form 27 prior to conducting any investigation or closure activities. A Form 27-Initial will be required at time of closure.	09/10/2024
OGLA	LAS review complete.	08/28/2024
OGLA	Pushed back to DRAFT.	08/20/2024
Total: 3 comment(s)		