

FORM  
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## State of Colorado

## Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80205 Phone: (303) 894-2100 Fax: (303) 894-2109



OGCC RECEPTION

Document Number:

400267136

## EARTHEN PIT REPORT / PERMIT

This form is to be used for both reporting and permitting pits. Rule 903 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 ☐ REPORT

OGCC PIT NUMBER: 428428

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

OGCC Operator Number: 96850 Contact Name: Karolina Blaney  
 Name of Operator: WPX ENERGY ROCKY MOUNTAIN LLC  
 Address: 1001 17TH STREET - SUITE #1200 Phone: (970) 683-2295  
 City: DENVER State: CO Zip: 80202 Email: karolina.blaney@wpxenergy.com

## Pit Location Information

Operator's Pit/Facility Name: Mautz Ranch Operator's Pit/Facility Number: \_\_\_\_\_  
 API Number (associated well): 05- \_\_\_\_\_ 00  
 OGCC Location ID (associated location): 422672 Or Form 2A # \_\_\_\_\_  
 Pit Location (QtrQtr, Sec, Twp, Rng, Meridian): SENW-19-2S-98W-6  
 Latitude: 39.863494 Longitude: -108.437370 County: RIO BLANCO

## Operation Information

Pit Use/Type (Check all that apply): Pit Type: ☒ Lined ☐ Unlined  
☐ 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; ☐ Emergency; ☐ Blowdown; ☐ Workover; ☐ Plugging; ☐ BS&W/Tank Bottoms  
☒ Multi-Well Pit: Construction Date: 06/01/2011 Actual or Planned: Planned  
 Method of treatment prior to discharge into pit: Filtering  
 Offsite disposal of pit contents: ☒ Injection; ☐ Commercial; ☒ Reuse/Recycle; ☐ NPDES; Permit Number: \_\_\_\_\_  
 Other Information: This Location Assessment is to construct a multi well pit which will be used for temporary storage of produced water that will be recycled for fracture stimulation in the Ryan Gulch Fields.

## Site Conditions

Distance (in feet) to the nearest surface water: 843 Ground Water (depth): 47 Water Well: 14062  
 Is this location in a Sensitive Area? Yes Existing Location? \_\_\_\_\_

## Pit Design and Construction

Size of Pit (in feet): Length: 350 Width: 150 Depth: 15 Calculated Working Volume (in barrels): 12100  
 0  
 Flow Rates (in bbl/day): Inflow: 2000 Outflow: \_\_\_\_\_ Evaporation: 0 Percolation: 0  
 Primary Liner. Type: polyethylene Thickness (mil): 60  
 Secondary Liner (if present): Type: polyethylene/clay Thickness (mil): 35  
 Is Pit Fenced? Yes Is Pit Netted? Yes Leak Detection? Yes  
 Other Information: \_\_\_\_\_

Operator  
Comments:

## Certification

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

Signed: \_\_\_\_\_ Print Name: Karolina Blaney

Title: Environmental Specialist Email: karolina.blaney@wpxenergy.com Date: 03/23/2011

**Approval**

Signed: 

Title: Director of Cogcc

Date: 03/30/2012

**BMP**

Type

Comment

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Total: 0 comment(s)

**CONDITIONS OF APPROVAL:**

FORM 15 SITE SPECIFIC AND ROAN RIM COAs:

COA 21 - Operator must comply with all provisions of the June 12, 2008 Notice to Operators (NTO) Drilling Wells Within  $\frac{3}{4}$  Mile of the Rim of the Roan Plateau in Garfield County – Pit Design, Construction, and Monitoring Requirements.

COA 90 - Notify COGCC Oil and Gas Location Assessment (OGLA) Specialist for Western Colorado (Dave Kubeczko; email dave.kubeczko@state.co.us) and the COGCC Field Inspection Supervisor for Northwest Colorado (Shaun Kellerby; email shaun.kellerby@state.co.us) 48 hours prior to start of construction of the pad and pit.

COA 22 - After installation of the uppermost liner and prior to operating the pit, the synthetic liner(s) shall be tested by filling the pit with produced water up to 90 percent of the working capacity, not to exceed the 2-foot freeboard requirement. The operator shall monitor the pit for leaks for a period of 72 hours prior to commencing operations. Operator shall notify the COGCC Oil and Gas Location Assessment (OGLA) Specialist for Western Colorado (Dave Kubeczko; email dave.kubeczko@state.co.us) 48 hours prior to start of the hydrotest. Hydrotest monitoring results must be maintained by the operator for the life of the pit and provided to COGCC prior to using the pit.

COA 23 - Operator must ensure 110 percent secondary containment for any volume of fluids contained at the water handling facility site during natural gas development activities and operations; including, but not limited to, construction of a berm or diversion dike, diversion/collection trenches within and/or outside of berms/dikes, site grading, or other comparable measures (i.e., best management practices (BMPs) associated with stormwater management) sufficiently protective of nearby surface water. Any berm constructed at the well pad location will be stabilized, inspected at regular intervals (at least every 14 days), and maintained in good condition.

COA 5 - Operator must implement best management practices to contain any unintentional release of fluids, including any fluids conveyed via buried or temporary surface pipelines.

COA 39 - No portion of any pit that will be used to hold liquids shall be constructed on fill material, unless the pit and fill slope are designed and certified by a professional engineer, subject to review and approval by the director prior to construction of the pit. The construction and lining of the pit shall be supervised by a professional engineer or their agent. The entire base of the pit must be in cut.

COA 47 - The completion/flowback fluids multi-well pit must be double-lined. The pit will also require a leak detection system (Rule 904.e).

COA 48 - Operator must submit a professional engineer (PE) approved/stamped as-built drawing (plan view and cross-sections) of the completion/flowback pit within 14 calendar days of construction.

COA 41 - The nearby hillside and any fill-material bermed portions of the pit must be monitored for any day-lighting of fluids throughout pit operations.

COA 49 - The completion/flowback fluids multi-well pit must be fenced and netted. The operator must maintain the fencing and netting until the pit is closed in accordance with Rule 905. Closure of Pits, and Buried or Partially Buried Produced Water Vessels.

COA 25 - Flowback and stimulation fluids must be sent to tanks to allow the sand to settle out before the fluids can be placed into any pipeline or pit. The flowback and stimulation fluid tanks must be placed on the pad in an area with additional downgradient perimeter berming. The area where flowback fluids will be stored/reused must be constructed to be sufficiently impervious to contain any spilled or released material (per Rule 604.a.(4)).

COA 27 - Submit additional disposal facilities (wells, pits, etc.) for pit contents to COGCC via a Form 4 Sundry prior to disposal.

COA 20 - Surface water samples from the ditch and Ryan Gulch (both upgradient and downgradient of the proposed multi well pit) shall be collected prior to pit use and every 12 months to evaluate potential impacts from pit operations. At a minimum, the surface water samples will be analyzed for the following parameters: major cations/anions (chloride, fluoride, sulfate, sodium); total dissolved solids (TDS); and BTEX/DRO.

COA 91 - At the time of pit closure, operator must submit disposal information via a Form 4 Sundry Notice to the COGCC Location Specialist for Western Colorado (Dave Kubeczko; email dave.kubeczko@state.co.us). The disposal method will need to be approved prior to operator starting pit closure. In addition, operator will collect a pit water sample and, at a minimum, analyze for the following parameters: pH; alkalinity; specific conductance; major cations/anions (chloride, fluoride, sulfate, sodium); total dissolved solids (TDS); BTEX/DRO; TPH; PAH's (including benzo[a]pyrene); and metals (arsenic, barium, calcium, chromium, iron, magnesium, selenium). At the time of closure/disposal of pit water, COGCC may require additional analytes, as appropriate.