

FORM
27
Rev 6/99

State of Colorado
Oil and Gas Conservation Commission



1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303)894-2100 Fax:(303)894-2109

#8238

FOR OGCC USE ONLY

RECEIVED
2/18/2014

SITE INVESTIGATION AND REMEDIATION WORKPLAN

This form shall be submitted to the Director for approval prior to the initiation of site investigation and remediation activities. Form 27 is intended to be used whenever possible. Additional documentation will be required when large volumes of soil and groundwater have been impacted or involve large facilities with multiple source areas. See Rule 910. Attach as many pages as needed to fully describe the proposed work.

OGCC Employee:

☒ Spill ☐ Complaint
☐ Inspection ☐ NOAV
Tracking No: 2147810

CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

☒ Spill or Release ☐ Plug & Abandon ☐ Central Facility Closure ☐ Site/Facility Closure ☐ Other (describe):

OGCC Operator Number: 10112	Contact Name and Telephone: Rachel Eisterhold
Name of Operator: Foundation Energy Management, LLC	No: 918-526-5592
Address: 16000 Dallas Parkway, Suite 875	Fax: 918-585-1660
City: Dallas State: TX Zip: 75248	
API Number: 05-103-10249	County: Rio Blanco
Facility Name: Banta Ridge	Facility Number: NA
Well Name: Banta Ridge	Well Number: 12-18
Location: (QtrQtr, Sec, Twp, Rng, Meridian): SWNW 18, 1S, 103W Latitude: 39.96471 Longitude: -109.00426	

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc): crude oil, condensate

Site Conditions: Is location within a sensitive area (according to Rule 901e)? ☐ Y ☒ N If yes, attach evaluation.

Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): Livestock (off-season), oil/gas operations

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: NA

Potential receptors (water wells within 1/4 mi, surface waters, etc.): No water wells or surface waters identified within a mile (verified through COGCC GIS tool)

Description of Impact (if previously provided, refer to that form or document):

Impacted Media (check):	Extent of Impact:	How Determined:
<input checked="" type="checkbox"/> Soils	Full extent to be determined	Saturated soil within tank berms
<input type="checkbox"/> Vegetation	NA	Release on well pad
<input type="checkbox"/> Groundwater	No groundwater encountered at 10' deep	
<input type="checkbox"/> Surface Water	NA	No surface water within 1 mile

REMEDIAL WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document):

Upon seeing soil-saturated soil within the berm, the pumper immediately shut-in the well and pressure tested the flowline to verify that was the source of the leak. COGCC was notified verbally on 1/28/14 and a Form 19 was submitted to the COGCC on 2/14/14.

Describe how source is to be removed:

We have removed 3.5 loads of contaminated dirt, while doing screenings in the field with a PID meter. These loads have been taken to an approved landfill and manifest tickets will be submitted with final Form 27A upon completion.

Describe how remediation of existing impacts is to be accomplished, including removal and disposal at an injection well or licensed facility, land treatment on site, removal of impacted groundwater, insitu bioremediation, burning of oily vegetation, etc.:

We are going to temporarily stop digging to do soil boring around the area of the contamination to try and delineate the scope of the remaining contamination. Once we have a better idea of the remaining scope, we will seek approval to either continue digging and hauling the contaminated soil or to landfarm the material on location.

Submit Page 2 with Page 1



REMEDIAL WORKPLAN (Cont.)

Tracking Number: _____
Name of Operator: Foundation Energy Mgmt, LLC
OGCC Operator No: 10112
Received Date: 2/18/14
Well Name & No: Banta Ridge 12-18
Facility Name & No: NA

OGCC Employee: _____

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):

No groundwater has been impacted in the excavation so far. If groundwater is encountered during this remediation, we will seek the guidance of COGCC and deal with sampling and remediation per their standards and regulations.

Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeding program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing. Use additional sheet for description if required.

The contaminated area that is being addressed in this remediation was the flat area within the tank berms. Once we remove/dispose of all contaminated soil and test to verify the remaining dirt is within the COGCC's Table 910-1, we will backfill with clean dirt and level the area again to replace the tanks back in their original location. Seeding will not occur until final reclamation of the facility (which is not planned for this facility.)

A diagram will be submitted once delineation has occurred and samples have been taken- with our outlined scope and procedure to complete the remediation.

While remediation projects are underway, the tank battery will be re-located to a different area of the well pad temporarily so the well can be returned to production. They will be within a bermed, lined area per COGCC and BLM instruction.

Attach samples and analytical results taken to verify remediation of impacts. Show locations of samples on an onsite schematic or drawing.

Is further site investigation required? ☒ Y ☐ N If yes, describe:

Delineation and further remediation is necessary to remove all contaminated soil from the area. Currently the PID readings on location have been high and the dirt is expected to be above Table 910-1 standards still.

Final disposition of E&P waste (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):

All manifest tickets from the disposal at a Waste Management landfill facility will be submitted along with the Form 27A upon completion of this remediation.

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: 1/28/2014 Date Site Investigation Completed: _____ Date Remediation Plan Submitted: 2/18/2014
Remediation Start Date: 1/30/2014 Anticipated Completion Date: 3/15/2014 Actual Completion Date: _____

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

Print Name: Rachel A. Eisterhold

Signed: _____

Title: HSE/Regulatory Compliance

Date: 2/14/2014

OGCC Approved: Kris Neidel

Title: EPS Northwest Area

Date: 2/26/2014