

State of Colorado Oil and Gas Conservation Commission

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



FOR OGCC USE ONLY
Received 7/18/2014
Document #2614863
Project No. 8549

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.

CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

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

OGCC Employee:
☒ Spill ☐ Complaint
☐ Inspection ☐ NOAV
Tracking No: 2147376

OGCC Operator Number: 10112

Name of Operator: Foundation Energy Management, LLC

Address: 16000 Dallas Parkway, Suite 875

City: Dallas State: TX Zip: 75248

Contact Name and Telephone:

Rachel Grant (Eisterhold)

No: 918-526-5592

Fax: 918-585-1660

API Number: 05-123-13452

County: Weld

Facility Name: Sooner 13-16

Facility Number: _____

Well Name: Sooner

Well Number: 13-16

Location: (QtrQtr, Sec, Twp, Rng, Meridian): SW SW 16, 8N, 58W, 6pm Latitude: 40.65645 Longitude: -103.875257

TECHNICAL CONDITIONS

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

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.): dry land pasture

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: ascalon fine sandy loam, 0-6% slopes

Potential receptors (water wells within 1/4 mi, surface waters, etc.): ~82' to stream (NE from tank battery)

4693' to nearest water injection well (SE of Sooner 13-16)

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

Impacted Media (check):

Extent of Impact:

How Determined:



Soils

5' x 5'

visual inspection



Vegetation



Groundwater



Surface Water

REMEDIALATION WORKPLAN

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

Please Reference Form 19- submitted on 1/8/2014. We have removed one load of contaminated dirt. This load were hauled from location and disposed in an E&P waste facility. Initial sampling was conducted that shows soil to be above the Table 910-1 standards- also attached.

Describe how source is to be removed:

Further sampling will be conducted to determine the horizontal and vertical extent of the impact. Impacted soils will be excavated.

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.:

Samples will be taken at 3' intervals. Samples will be sent to Lab to ensure compliance with Table 910-1. Pending results of analysis, either a "Dig & Haul", or an "On-Site Blending" procedure will be utilized. Final confirmation samples will be taken prior to backfill.



REMEDIAL WORKPLAN (Cont.)

Tracking Number: 2147376

Name of Operator: Foundation Energy Management, LLC

OGCC Operator No: 10112

Received Date: 7/18/2014

Well Name & No: Sooner 13-16

Facility Name & No:

OGCC Employee: R. Allison

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

Groundwater is not expected to be encountered.

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.

Once the excavated area is in compliance with COGCC Rules & Regulations, the excavated area will be backfilled to grade with clean soil compliant with the Table 910-1 standards. A seed bed will be prepared and the area reseeded with a weed free mix conforming with surrounding area.

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:

Further delineation is needed to establish horizontal and vertical extent of the impacted soil. This delineation will determine the volume of material to be excavated, and the appropriate remedial action.

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

If a "Dig & Haul" procedure is conducted, excavated soil will be hauled to an approved Waste Management facility to be disposed.

If an "On-Site Blending" procedure is utilized, the soil will be blended to conform to the Table 910-1 standards. The blended material will be used to backfill the excavated area and remaining soil will be utilized to maintain berms, lease roads and stormwater BMP's.

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: 1/8/2014 Date Site Investigation Completed: Date Remediation Plan Submitted:
Remediation Start Date: Anticipated Completion Date: 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: Signed:

Title: Date:

OGCC Approved: Title: Northeast EPS Date: 7/25/2014