

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

**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):

**RECEIVED**  
FOR OGCC USE ONLY  
JUL 20 2015  
**COGCC**  
OGCC Employee:  
☒ Spill ☐ Complaint  
☐ Inspection ☐ NOAV  
Tracking No: 400841165

OGCC Operator Number: 10312

Name of Operator: Prospect Energy LLC

Address: 500 Dallas Street, Ste 1800

City: Houston State: TX Zip: 77002

Contact Name and Telephone:

Dene Martin

No: 307-382-6738

Fax:

API Number:

County: Larimer

Facility Name: Flowline

Facility Number: 333083

Well Name:

Well Number:

Location: (QtrQtr, Sec, Twp, Rng, Meridian): NWNW Sec 30, T8N, R68W, 6PM Latitude: 40.637190 Longitude: -105.053590

**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.): Residential

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Fill soil over sandy clay

Potential receptors (water wells within 1/4 mi, surface waters, etc.): 992 feet from surface water, 302 feet from wetlands, 303 feet from the nearest occupied building, 600 feet from the nearest water well (DNR plot of water well).

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

Impacted Media (check):



Soils



Vegetation



Groundwater



Surface Water

Extent of Impact:

To be determined

How Determined:

Soil borings with lab analyses of samples

**REMEDIALATION WORKPLAN**

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

Please refer to spill documents # 400845210, 400847822. This is for the initial spill and a subsequent release that occurred at the excavation during mitigation of the initial release. Soil from the excavation has been stored on location (Sundry Document #400858349 (rejected)). The two areas where soil is stored on location have been treated with 35 gallons of ACT. Total soil is estimated at approximately 300 yards, which is less than previous estimates. Soil samples have been collected from the soil treatment areas and are being analyzed for BTEX, TPH-GRO and DRO. If analytical results pass COGCC Table 910-1 threshold concentrations, the soil will be removed and used as excavation backfill or elsewhere on site. If analytical results do not pass COGCC Table 910-1 threshold concentrations, the soil will be removed and treated by "soil shredding", a proprietary treatment used by Talon LPE from Amarillo Texas.

Describe how source is to be removed:

The extent of contamination (aerial and depth) will be determined by advancing soil borings in an iterative manner extending outward from the present excavation. Soil samples will be collected from the borings and analyzed for BTEX, TPH-GRO and DRO. If groundwater is encountered in the borings, samples will be collected and analyzed for the same compounds. Further remediation will depend upon the scope of impact encountered. If soil impact is accessible, the Operator proposes to excavate and treat the soil by "soil shredding" (Talon LPE). If inaccessible soil impact or significant groundwater impact is encountered, the Operator proposes in-situ treatment of the soil and groundwater through injection of a proprietary compound (Talon LPE) based on hydrogen peroxide. Before any injection treatment is started, the Operator will amend the remediation workplan and get any needed approvals from the COGCC, CDPHE, and EPA (injection approval).

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.:

The Operator will commence with treatment of the two areas of stored soil on location (if soil samples do not pass COGCC Table 910-1 concentrations) as soon as the contractor (Talon LPE) is available. This is expected to occur by the end of the month or the first week in August. The investigation to determine the extent of contamination will occur as soon as the contractor (Talon LPE) can proceed. This is estimated to begin the first or second week of August.

Submit Page 2 with Page 1





Tracking Number: 400841165  
Name of Operator: PROSPECT ENERGY  
OGCC Operator No: 10312  
Received Date: 7/20/2015  
Well Name & No: \_\_\_\_\_  
Facility Name & No: HEARTH FIRE/MSSU BATTERY

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REMEDIATION WORKPLAN (Cont.)

OGCC Employee: R. Allison

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

If groundwater is encountered during the investigation, samples will be collected and analyzed. If groundwater concentrations exceed Table 910-1 concentrations, a groundwater remediation plan will be put into place, subject to COGCC approval.

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 area of impact is at an existing tank battery. The surface is owned by the Operator. The disturbed area will be machine compacted, leveled, contoured, and covered with road base.

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:

Yes. See Page 1.

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

Soil will be used onsite. This will occur after successful land treatment or treatment by "soil shredding" (Talon LPE). See Page 1 for details.

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: 5/17/15 Date Site Investigation Completed: TBD Date Remediation Plan Submitted: 7/16/15  
Remediation Start Date: 5/17/15 Anticipated Completion Date: 11/30/15 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: Mary C. Griggs

Signed: Mary C. Griggs

Title: Reg/Environmental Compliance (Contractor)

Date: 7/16/15

OGCC Approved: [Signature]

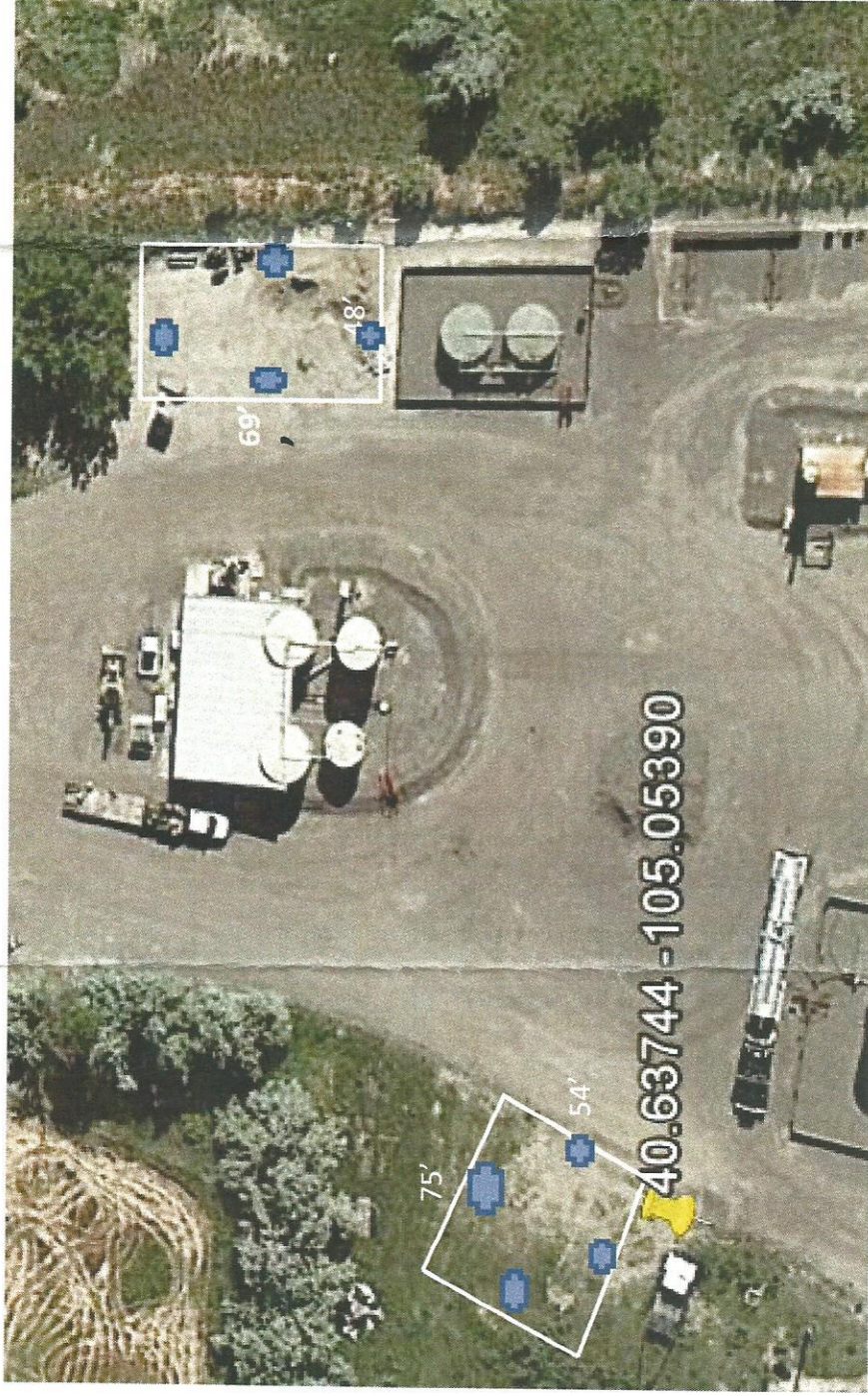
Title: NORTHEAST EPS

Date: 7/24/2015

CONFIRMATION Soil samples shall be collected to demonstrate successful remediation of soil and groundwater.



## Temporary Soil Storage FTC Battery



Soil Sample Locations, Pending Analytical Results