



02223683

FORM
27
Rev 6/99State of Colorado
Oil and Gas Conservation Commission

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



#6932

FOR OGCC USE ONLY

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: 2222097

OGCC Operator Number: 94701	Contact Name and Telephone:
Name of Operator: Fidelity E&P Company	Kevin Mathews
Address: 1700 Lincoln; Suite 2800	No: 720 956 5757
City: Denver State: CO Zip: 80203	Fax: 393 893 1964
API Number: 05-125-07114	County: Yuma
Facility Name: Moellenberg 43-6 PW tank	Facility Number: _____
Well Name: near Moellenberg 43-6 gas well	Well Number: _____
Location: (QtrQtr, Sec, Twp, Rng, Meridian): NESE Sec 6, T6S, R43W	Latitude: 39.6505 Longitude: -102.2165

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc): Produced Water		
Site Conditions: Is location within a sensitive area (according to Rule 901e)? <input type="checkbox"/> Y <input type="checkbox"/> N If yes, attach evaluation.		
Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): _____		
Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: silty		
Potential receptors (water wells within 1/4 mi, surface waters, etc.): _____		
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	Limited. Additional assessment needed 0-3 ft bgs.	MWH site assessment results
<input checked="" type="checkbox"/> Vegetation	None	none observed
<input checked="" type="checkbox"/> Groundwater	No ground water within 50 ft bgs	MWH site assessment
<input checked="" type="checkbox"/> Surface Water	None. Nearest SW is 9450 ft away	No evidence of overland flow

REMEDIATION WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document):	
Site assessment by MWH (previously provided) established no impact to shallow ground water, no widespread impacts to intermediate depth soils (5 - 16 ft bgs), no visible expression at surface. See below for follow up site assessment work plan.	
Describe how source is to be removed:	
Source removed. Discontinued putting produced water into leaking tank in September, 2011.	
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.:	
If soils within 0-3 ft of surface are determined to be impacted, they will be removed and replaced with clean fill. Additional site assessment work described below is necessary to laterally delineate area of impacts.	

Submit Page 2 with Page 1

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REMEDIATION WORKPLAN (Cont.)

Tracking Number: _____
Name of Operator: _____
OGCC Operator No: _____
Received Date: _____
Well Name & No: _____
Facility Name & No: _____

OGCC Employee: _____

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

NA. No ground water encountered within 50 ft of surface.

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 location will be returned to industrial usage - a new produced water tank will likely be positioned in the same location where the defective tank had been. Basically, the site will be returned to a flat, bare soil surface, similar to the rest of the existing well pad. We do not expect to have any impact beyond the existing disturbed well pad perimeter, other than collecting two background soil samples.

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:

Work plan objective is to identify, remove, and replace any soils within 3 feet of surface that do not meet the COGCC criteria of 4 mmhos/cm and SAR of 12.

Fidelity will remove leaky tank, collect soil samples at the center of the tank footprint and from five feet and 10 feet out in N, S, E, and W directions. Each of these nine samples will be composites of the 0-3 feet soil profile. Composite samples will be field screened for EC and soil pH and submitted to a laboratory for confirmation of EC and SAR. Fidelity will also collect, field screen, and lab analyze two background samples, collected at least 50 feet from center in natural pasture land.

If field screening indicates elevated EC in any sample collected 10 feet from center, additional samples will be collected five feet farther from center until field screening is consistent with background EC levels. This process should provide a thorough lateral delineation of produced water impacts within the 0-3 foot depth interval and provide the basis for determining how much soil, if any, needs to be removed and replaced.

This additional site assessment work is tentatively scheduled to be done the week of February 26, 2012.

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

If removal and replacement of impacted soils is necessary, Fidelity will provide the COGCC documentation of the source of clean soil brought onsite and the disposition of impacted soils removed.

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: Feb 13, 2012 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: Kevin Mathews

Signed:

Title: Senior Environmental Engineer

Date: February 10, 2012

OGCC Approved:

Title: EPSTV

Date: 4/3/12

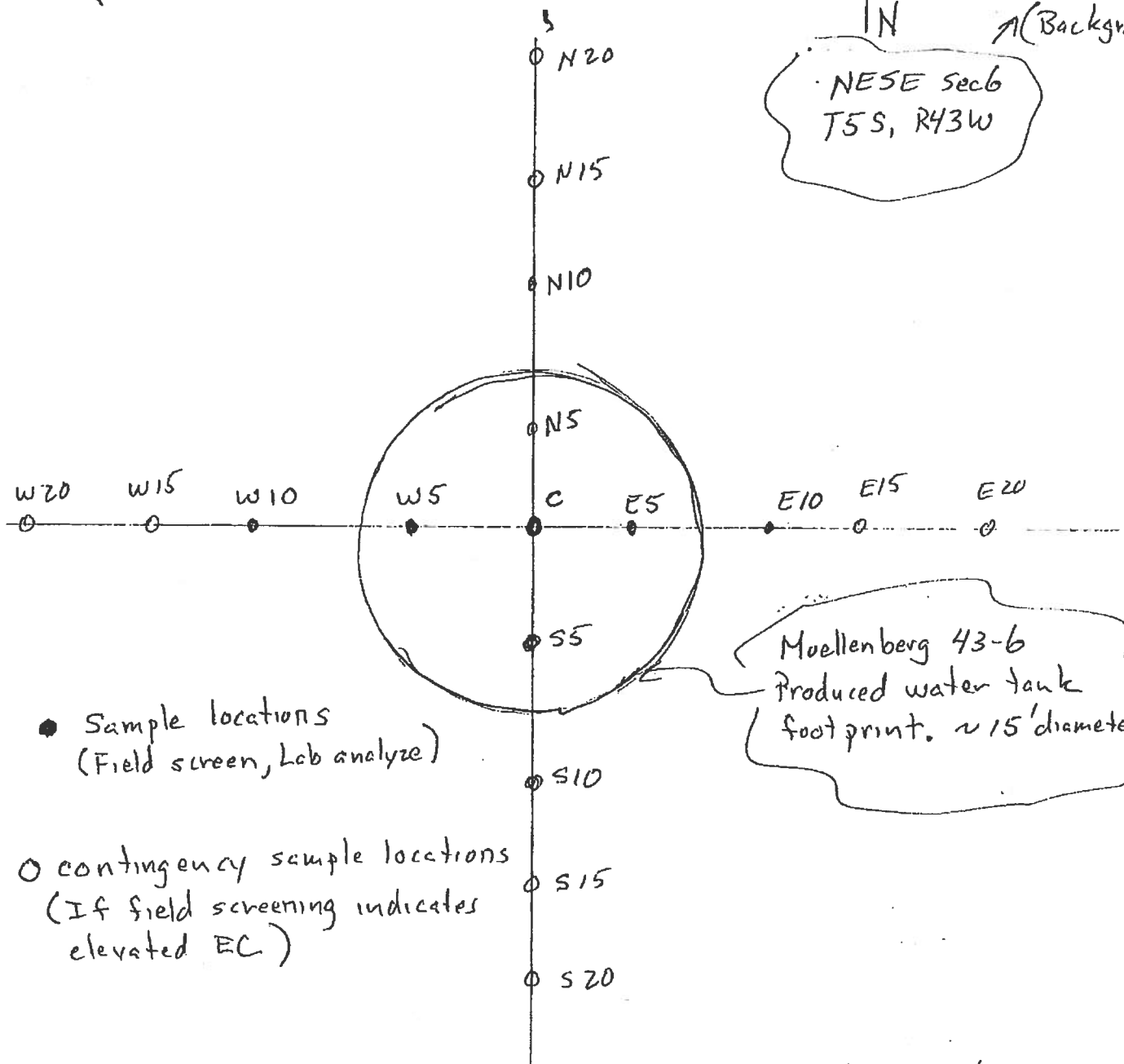


COGCC Tracking # 2222097
Moellenberg 43-6 PW release.
shallow soil (0-3' bgs)
delineation of impacts.
sampling strategy.

• B1 (Background)
↑

• B2
A (Background)
↑ N

NESE sec 6
T5S, R43W



Moellenberg 43-6
Produced water tank
footprint. ~15' diameter

Kevin Mathias
Fidelity E&P Co
2/10/12

720-956-5757