

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
 REM 9332
 Facility 312771
 Document 2144623
 Date 11/3/2015
 OGCC Employee:
 Spill Complaint
 Inspection NOAV
 Tracking No:

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 Operator Number: <u>10428</u>	Contact Name and Telephone: <u>JASON HAACK</u>
Name of Operator: <u>DIVERSIFIED ENERGY LLC</u>	No: <u>303-995-0826</u>
Address: <u>10940 S PARKER ROAD</u>	Fax: _____
City: <u>PARKER</u> State: <u>CO</u> Zip: <u>80134</u>	
API Number: <u>05-081-05284</u> County: <u>MOFFAT</u>	
Facility Name: <u>URIE</u> Facility Number: <u>222309</u>	
Well Name: <u>URIE</u> Well Number: <u>1</u>	
Location: (QtrQtr, Sec, Twp, Rng, Meridian): <u>NWSW 13 5N 96W 6 PM</u> Latitude: <u>40.382066</u> Longitude: <u>-108.131286</u>	

TECHNICAL CONDITIONS

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

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.): RANGELAND

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

Potential receptors (water wells within 1/4 mi, surface waters, etc.): NONE

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	<u>SEE FIGURE 1 AND FIGURE 2</u>	<u>SITE ASSESEMENT AND SOIL TEST REVIEW</u>
<input type="checkbox"/> Vegetation	_____	_____
<input type="checkbox"/> Groundwater	_____	_____
<input type="checkbox"/> Surface Water	_____	_____

REMEDATION WORKPLAN

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

On July 17th 2015 a historical spill occurred, Summarized in Form 19 Initial (doc#400871277) sent via email to Enviromental Director Alex Fischer on July 20th 2015 and uploaded to e-form on July 21st 2015. Clean up effort described and evidence of tampering and vandalism discovered was reported on Form 19 Supplemental (doc# 400878504) SPILL ID# 442574 see Figure 3 map of location

Describe how source is to be removed:

See Attached Figure 1 "Spill Pathway Excavation and Soil Sample Locations

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 impacted soil shall be removed and sent to a licensed landfill per operator/contractor manifest. See spill calculations figure 2



Tracking Number: _____
Name of Operator: 1042B
OGCC Operator No: _____
Received Date: 10/23/15
Well Name & No: 091-05284
Facility Name & No: _____

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REMEDIATION WORKPLAN (Cont.)

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

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 impacted area shall be restored to pre-release grade. Diversified Energy LLC facility remains at the site.

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:

Soil impacts were delineated by site assessment activities (see figure 2)

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

The impacted soil shall be transported to a licensed landfill for disposal.

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: 7/18/2015 Date Site Investigation Completed: _____ Date Remediation Plan Submitted: 10/22/15
Remediation Start Date: _____ Anticipated Completion Date: TBD 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: JASON HOPPE Signed: [Signature]
Title: Manager Date: 10/22/15

OGCC Approved: [Signature] Title: EPS Date: 11/3/15

See Cont's Below

- The vertical and horizontal extent of the pit should be determined through the soil investigation.
- Samples should be analyzed for table 910-1.
- Reported $56.6\text{ft} \times 1\text{in}/\text{ft} = 8150\text{ in}^3 = 35\text{gal} = 0.84\text{ bbl}$
- Area identified as "Area "c"" should extend to end of berm to included full pooled part of spill.
- Any area that indicated impact (through; field screening, visual staining or odor) should be removed
- Operator should provide notice to Environmental staff Kris Neidel (kris.neidel@state.co.us) or 970-871-1963 72hrs prior to mobilization at begin of work.
- Guidance for sample locations should be taken from rule 910.b(3)B
- Final Reclamation should comply with 1004 rules.

A.P. Urie #1 (Figure #1) API# 05-081-05284 NWSW 13 5N96W 6PM

Spill Pathway, Excavation Procedure and Soil Sample Location Staking



Excavation procedure completed on 10/22/2015: Well is Shut In

Contractor will remove 9 inches of dirt between red staked areas (4'-7' wide x 50' length) staking as shown is over excavated by 2' +/- on each side of spill path.

All dirt removed shall be taken to licensed land fill

2 samples will be taken, locations marked with grey stakes (S1 and S2) and sent to laboratory for testing, if samples are within limits of Table 910-1 operator will request closure.

Restore Excavated site area to pre-release conditions.

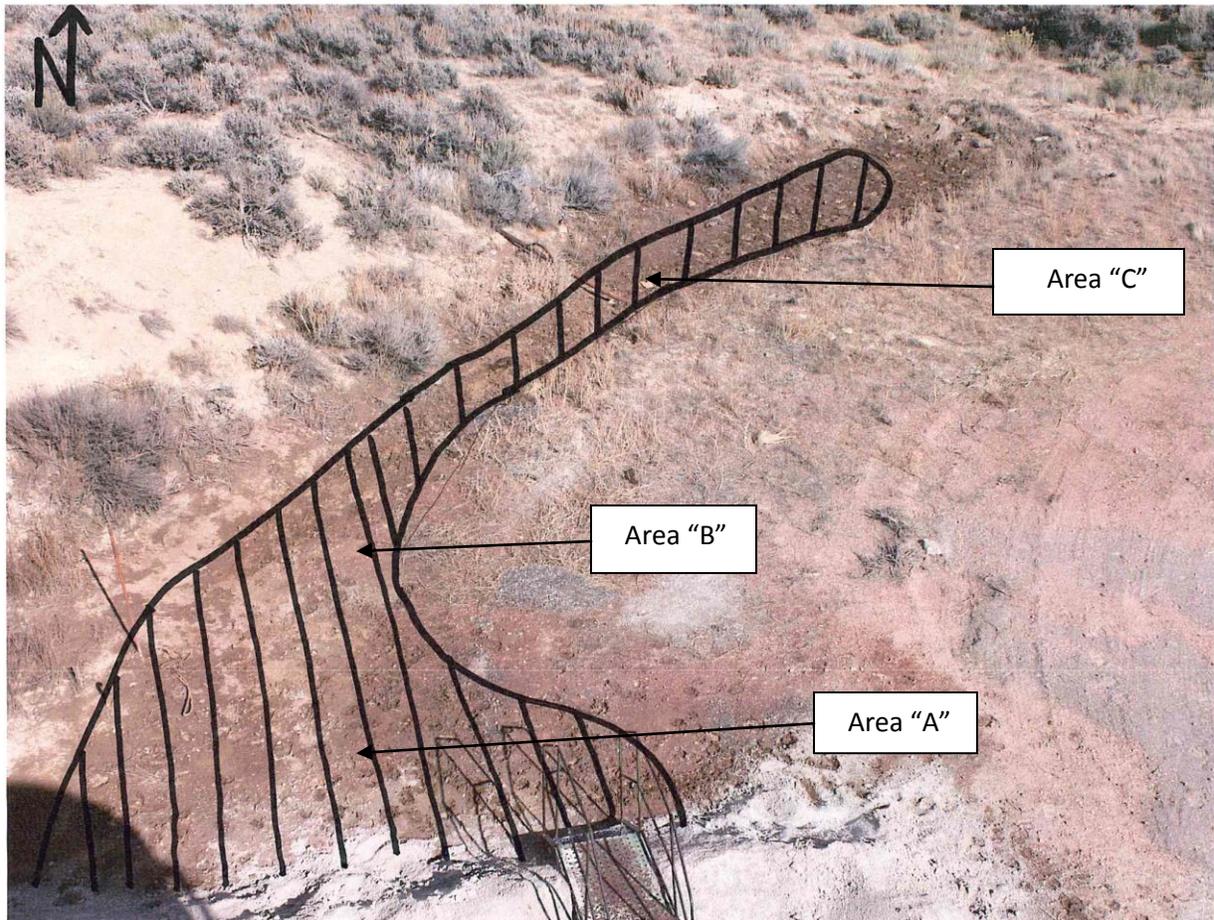
Delineation of impacted area with Spill Calculations (Figure 2)

Spill Pathway total impacted area is 56.6 Square Feet

Area "A" 10' x 5' area 80% coverage of 1" or less approximately 40 square feet (80% x 50 SF)

Area "B" 9' x 3' area 50% coverage of 1" or less approximately 13.5 square feet (50% x 27 SF)

Area "C" 31' x 1' area 10% coverage of light sheen approximately 3.1 square feet (10% x 31 SF)



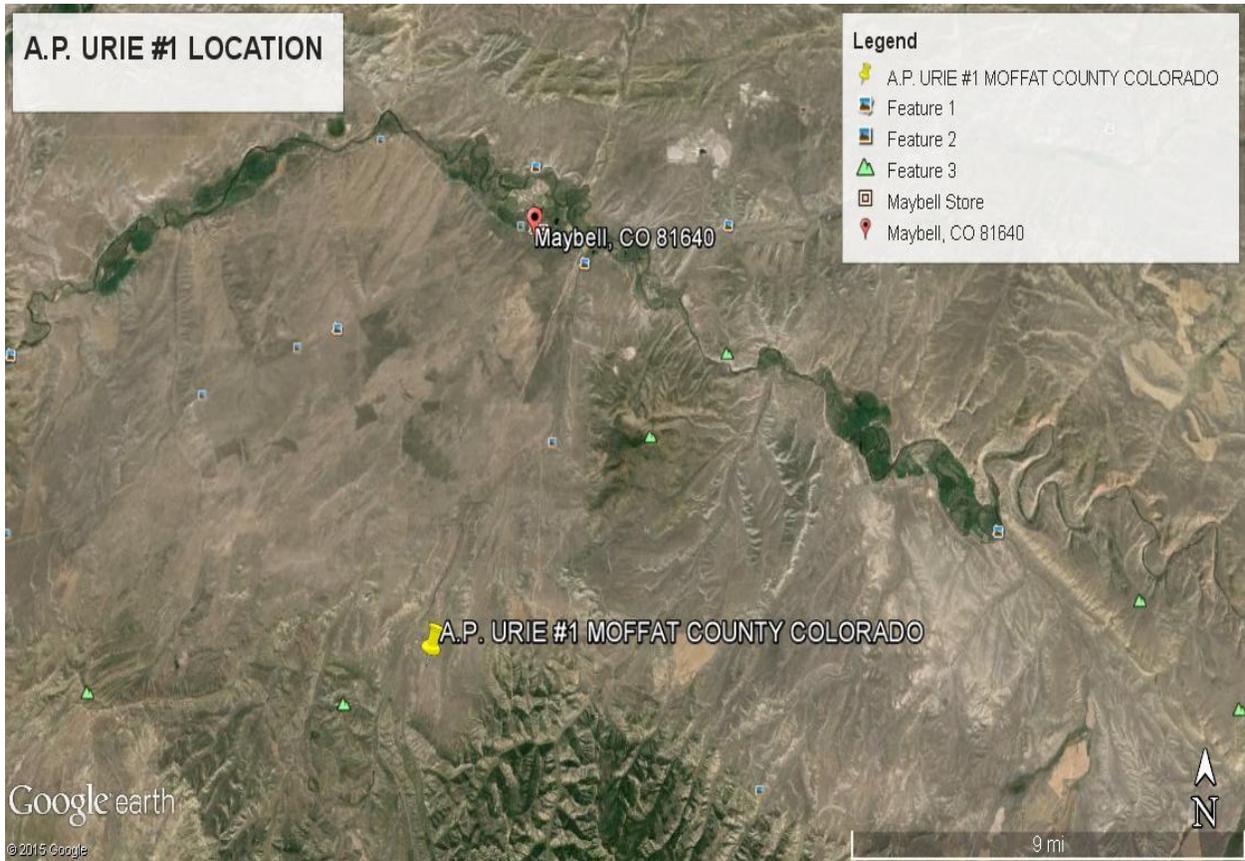
Impacted Area 56.6 Square Feet x 1" fluid coverage is 0.668 gallon or 0.0159 barrel

Core sample taken displayed .25"-.50" saturation, using maximum fluidity ratio calculation of affected area is 0.0334 gallon or 0.00795 barrel

Total Spill Calculation 0.02385 barrel

A.P. Urie #1 API# 05-081-05284 (Figure #3)

Aerial Photograph showing well location



API# 05-081-05284 NWSW 13 5N96W 6PM - LAT/LONG 40.382126/-108.131228