



02221020

FORM 27 Rev 6/99

State of Colorado Oil and Gas Conservation Commission



#6685

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

FOR OGCC USE ONLY
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): Removal of 1/2 Buried tank

OGCC Operator Number: 10275A
Name of Operator: Augustus Energy Partners, LLC
Address: P. O. Box 250
City: Wray, State: CO Zip: 80758
Contact Name and Telephone: Loni Davis
No: 970-332-3585
Fax: 970-332-3587

API Number: 05-125-11422 County: Yuma
Facility Name: Facility Number:
Well Name: Chapman Well Number: 19-10
Location: (QtrQtr, Sec, Twp, Rng, Meridian): NWSE/4 Sec. 19 T1S-R44W, 6th pm Latitude: 39.95444 Longitude: -102.34387

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)? Y N If yes, attach evaluation.
Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): Irrigated and Pasture
Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: 25: Kuma Keith Silt Loams
Potential receptors (water wells within 1/4 mi, surface waters, etc.): 2 Water wells withing 1/4 mile
Description of Impact (if previously provided, refer to that form or document):
Impacted Media (check): Extent of Impact: How Determined:
Soils NA Soil Analysis
Vegetation NA Soil Analysis
Groundwater
Surface Water

REMEDATION WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document):
After removal of the 1/2 Buried produced water tank, we sampled the soil under the tank and the background area. Per the soil analysis the EC and SAR levels fell outside the COGCC Table 910-1 guidelines. Sample of analysis is attached for your review. The Chapman 19-11 API # 05-125-10373 also flowed to this removed tank.
Describe how source is to be removed:
NA
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.:
NA

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

NA

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 Soil was sampled on 10/02/11, the EC and SAR levels are outside the limits of the COGCC table 910-1. Per our consultant at Enviro-AG we will be applying 2.5 lb/Sq-ft of high Cal. Soil will be resampled in 2-3 weeks after treatment. Once the soil has reached the acceptable levels we will reseed and crimp grass straw to help alleviate erosion and promote revegetation.

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, we will continue to monitor site after treatment and reseeding for erosion and revegetation to determine if any further treatment will be required.

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

NA

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: 09/21/11 Date Site Investigation Completed: 10/02/11 Date Remediation Plan Submitted: 11/08/11
Remediation Start Date: 11/14/11 Anticipated Completion Date: 12/05/11 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: Loni J. Davis Signed: [Signature]

Title: Operations Accounting and Regulatory Specialist Date: 11/08/11

OGCC Approved: [Signature] Title: ESR Date: 11/10/11

North
↑

Chapman 19-10 & 19-11



SOIL ANALYSIS REPORT



6921 S. Bell
Amarillo, TX 79109
800.557.7509
806.677.0093
Fax 806.677.0329

CLIENT: 6224	ENVIRO-AG ENGINEERING INC 3404 AIRWAY BLVD AMARILLO, TX 79118
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LAB NO:	319 - 320
INVOICE NO:	118380
DATE RECEIVED:	10/04/2011
DATE REPORTED:	10/14/2011

SOIL ANALYSIS RESULTS FOR AUGUSTUS ENERGY **FIELD IDENTIFICATION: CHAPMAN 19-10**

METHOD USED:		2:1 Water-Soil		2:1 Water-Soil																	
Lab Number	Sample ID	Sample Depth	Soil pH	Buffer pH	Sol. Salts mmho/cm	Excess Lime	% Organic Matter			Phosphorus ppm P	Potassium ppm K	Sulfur ppm lb. S/A	Calcium ppm Ca	Magnesium ppm Mg	Sodium ppm Na	Zinc ppm Zn	Iron ppm Fe	Manganese ppm Mn	Copper ppm Cu	Boron ppm B	
319	TANK	60 - 72	8.9		2.02	Hi															
320	BACKGROUND	60 - 72	8.7		0.19	Hi															

METHOD USED:		Sat. Paste																					
Lab Number	Sample ID	Sample Depth	Saturation % Sat	Electrical Conductivity mmho/cm	Calcium mg/L Ca	Magnesium mg/L Mg	Sodium mg/L Na	Sodium Adsorption Ratio															
319	TANK	60 - 72	55	8.78	60	11	1820	56.7															
320	BACKGROUND	60 - 72	44	0.38	28	7	39	1.7															

FERTILIZER RECOMMENDATIONS:																	POUNDS ACTUAL NUTRIENT PER ACRE						Cation Exchange Capacity															
Lab Number	Sample ID	Crop To Be Grown	Yield Goal	Lime, ECC Tons/A to raise pH to:			N	P ₂ O ₅	K ₂ O	Zn	S	Mn	Cu	MgO	B	Ca	Cl																					
				6.0	6.5	7.0												CEC	%H	%K	%Ca	%Mg	%Na															
319	TANK																																					
320	BACKGROUND																																					

ADDITIONAL WELL: CHAPMAN 19-11