

#6938

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



FOR OGCC USE ONLY

RECEIVED
 4/9/2012

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: 2222753

OGCC Operator Number: 10232	Contact Name and Telephone: Wayne Bankert
Name of Operator: Laramie Energy II, LLC	No: 970-812-5310
Address: 1512 Larmimer Street Suite 1000	Fax: 303-339-4399
City: Denver State: CO Zip: 80202	
API Number: 05-057-06483-01	County: Jackson
Facility Name: Fuqua 18-15	Facility Number: 324766
Well Name: Fuqua	Well Number: 19-02-10-1H
Location: (QtrQtr, Sec, Twp, Rng, Meridian): SWSE Sec 18 T6N R78W	Latitude: 40.48465 Longitude: -106.18471

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc.): Condensate, crude oil, production 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.): Rangeland

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

Potential receptors (water wells within 1/4 mi, surface waters, etc.): Monroe Ditch 0.15 miles away, nearest water well 1.20 miles away,

Depth to groundwater approximated to be greater than 100 feet.

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	2.59 acres	Visual
<input checked="" type="checkbox"/> Vegetation	2.59 acres	Visual
<input type="checkbox"/> Groundwater		
<input type="checkbox"/> Surface Water		

REMEDIALTION WORKPLAN

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

See Form 19 Spill/Release tracking number 2222753.

Describe how source is to be removed:

The area of land that has been impacted from this release is composed of dense sagebrush. The source will be removed by first conducting a controlled burn of all impacted vegetation and soil in the area. The controlled burn is scheduled to be conducted the week of April 9, 2012 and will be performed by the Jackson County Volunteer Fire Department. Upon completion of the controlled burn, extensive soil sampling will be done to determine the level of impact remaining in the soil. The soil will be screened using a photo ionization detector (PID) using a sampling grid to ensure analysis of the entire impacted area. If PID readings are above 100 ppm soil samples will be sent to laboratory for analysis.

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 impacted soil remains after the controlled burn, the remaining source will be removed using bioremediation techniques. Due to the minimal amounts of topsoil in this area, removal of impacted soils is to be avoided. Remediation will be performed by using a combination of microbial agents and fertilizer. Remediation efforts will be continuously monitored throughout the summer and possibly longer dependent on soil sampling results. Once the impacted area has been remediated, revegetation will be performed using approved seed mixes.

Submit Page 2 with Page 1



Tracking Number: 2222753
Name of Operator: Laramie Energy II, LLC
OGCC Operator No: 10232
Received Date: _____
Well Name & No: Fuqua 19-02-10-1H
Facility Name & No: Fuqua 18-15 (324766)

OGCC Employee: _____

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

N/A

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.

Grade recontouring or compaction alleviation will not be required for this site. See attached BLM approved resedding program.

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 site investigation is dependent upon results of the controlled burn and soil sampling.

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

E&P waste will be disposed of through burning of vegetation and onsite remediation of the soil.
Removal of impacted soils will be avoided if possible.

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: 1/27/2012	Date Site Investigation Completed: _____	Date Remediation Plan Submitted: 4/6/2012
Remediation Start Date: 4/9/2012	Anticipated Completion Date: 9/15/2012	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: Wayne P. Bankert Signed: Wayne P. Bankert
Title: Senior Reg. & Env. Coordinator Date: 4/09/2012

OGCC Approved: Ally-Lin Title: Env. Supervisor Date: 4/9/12

See attached email dated April 9, 2012
JRVZ

SEED MIX

Drill Seeding Rate

<u>SEED NAME</u>	<u>Application Rate</u> PLS/Acre	<u>Seeds/SQ. FT.</u>
Grasses		
Western wheatgrass Pascopyrum smithii, variety. Arriba	2.97	7.5
Thickspike Wheatgrass Elymus lanceolatus var. Critana	2.13	7.5
Bluebunch wheatgrass Pseudoroegneria spicata, var. Secar (Alternate var. Goldar)	2.51	7.5
Sheep fescue Festuca ovina, var. Covar	.62	7.5
<hr/>		
Total	8.23	30
 Forbs		
Alfalfa var. Ladak	.73	3.5
Big sagebrush Artemisia tridentata ssp. wyomingensis	.06	3.5
<hr/>		
Total	.79	7

* Big sagebrush and Alfalfa may be seeded when it would be better for success

* Broadcast seeds at twice the rate

(Seed tags must be submitted to BLM after seeding.)

* do not seed prior to October 1, to avoid sprouting.

MULCH

Native Hay or Straw 2,000 lbs. X acres =

-Mulch is optional but it will help reclamation results.

-Must be Certified Noxious Weed Free

Fischer, Alex

From: Fischer, Alex
Sent: Monday, April 09, 2012 9:09 AM
To: 'Wayne Bankert'
Cc: 'Stuart Hall'; 'Nancy Thornton'
Subject: RE: Form 27 for Norh Park Spill tracking No. 2222753

Wayne,

As discussed this a.m., representative soil samples should be collected to determine the presence or absence of hydrocarbons even if the photo ionization detector (PID) readings are below 100 ppm. At a minimum the samples should be analyzed for BTEX and TPH.

I will be in Jackson County this week working with another operator. If you elect to schedule the control burn, please let me know via email.

Thanks
Alex

Alex Fischer, P.G.
Environmental Supervisor - Western Colorado
Colorado Oil and Gas Conservation Commission
1120 Lincoln Street, Suite 801
Denver, CO 80203
(303) 894-2100 ext. 5138
(303) 894-2109 fax
alex.fischer@state.co.us

From: Wayne Bankert [<mailto:wbankert@laramie-energy.com>]
Sent: Monday, April 09, 2012 8:44 AM
To: Fischer, Alex
Cc: 'Stuart Hall'; 'Nancy Thornton'
Subject: Form 27 for Norh Park Spill tracking No. 2222753

Alex,
Please find attached a form 27 for LEII's spill in North Park. We are hoping to burn this week if the weather and conditions permit.
Thanks

Wayne P. Bankert
Senior Regulatory & Environmental Coordinator
Laramie Energy II, LLC
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Grand Junction, CO 81506
O: 970-812-5310
C: 970-985-5383