

#6744

FORM
27
Rev 6/99

01761312

State of Colorado
Oil and Gas Conservation Commission

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



RECEIVED

NOV 30 2011

COGCC

COGCC Employee

☒ Spill ☐ Complaint
☐ Inspection ☐ NOAV

Tracking No: 2214222

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: 101101

Name of Operator: Saga Petroleum llc

Address: 600 17th street suite 1700N

City: Denver State: Co Zip: 80202

Contact Name and Telephone:

David A. Petty

No: 303 996-7766

Fax: 303 996-7767

API Number: 05-121-05415

County: Washington

Facility Name: Rush Willadell

Facility Number: 53846

Well Name: Jones Dupree

Well Number: 1

Location: (QtrQtr, Sec, Twp, Rng, Meridian): SW / NE Sec 26, T3S, R51W Latitude: 39.76636 Longitude: 103.054973

TECHNICAL CONDITIONS

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

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.): pasture, dryland farming

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.): N/A

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

Impacted Media (check):



Soils



Vegetation



Groundwater



Surface Water

Extent of Impact:

localized

How Determined:

REMEDATION WORKPLAN

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

Cleaned out tank bottom and mistakenly placed material on lease roads. refer to form 19

Describe how source is to be removed:

Approximately 200 yards of impacted soil has been excavated and placed in a lined pit.

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.:

Impacted soil will be landfarmed onsite. Treated soil will be used on location

Submit Page 2 with Page 1



Tracking Number: Spill 2214222/Rem 1761312
Name of Operator: Saga Petroleum
OGCC Operator No: 101101
Received Date: 11/30/11
Well Name & No: Jones Dupree 1
Facility Name & No: _____

OGCC Employee: Axelsson

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

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 contaminated soil is contained in a lined pit. Samples will be taken randomly throughout the contaminated soil. Biodynamics Corp. will treat the soil with microbes and nutrients and turn and till periodically. Soil samples will be taken and compared to previous samples. Evaluate bioremediation an adjust as needed.

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:

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

Contaminated soil will be landformed on location. Treated soil will be incorporated onsite.

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: 04/29/11 Date Site Investigation Completed: _____ Date Remediation Plan Submitted: _____
Remediation Start Date: 10/03/11 Anticipated Completion Date: late 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: David A. Petty

Signed: David A. Petty

Title: Manager E H & S

Date: 11/30/11

OGCC Approved: [Signature]

Title: EPS

Date: 12/13/11

see conditions of approval.

Saga Petroleum, Inc. #101101
Jones Dupree #1, 121-04515
Spill #2214222

Form 27 (Document #1761312) – Conditional Approval

The remediation plan for land treatment of oily waste is approved with the following conditions:

- Land treatment shall be performed in strict accordance with COGCC Rule 907.e.(2).
- Perform routine maintenance to prevent contamination of stormwater runoff.
- Land treatment shall be documented in an annual status report due each year on October 31st. Status report shall include the following information:
 - Type and volume of microbes, nutrients or other amendments added.
 - Dates the material was aerated, moisturized, maintained, etc...
 - Soil sample results for TPH, BTEX and the PAHs listed on Table 910-1. Contact COGCC to agree on sufficient number of samples prior to collection.
- Oily waste cannot be beneficially reused until confirmation samples verify compliance with Table 910-1.
- Upon approval of final closure, surface shall be restored in accordance with COGCC reclamation rules.

David Petty

From: hammer@peetzplace.com
Sent: Tuesday, September 20, 2011 1:46 PM
To: David Petty
Subject: Soil test results

David,

Here is a summary of the soil test results:

DRO 8,000 mg/kg
GRO 2.4 mg/kg
BTEX not detected
pH 7.4
EC 1.72 mmhos/cm
SAR 4.51

Here are the table 910 limits for the COGCC:

TPH (DRO+GRO) 500 mg/kg
pH 6-9
EC <4mmhos/cm
SAR <12

I talked with John Axelson this morning and he is agreeable to letting you treat this on site, but as I explained you will have to file a form 27 with a full plan on how you are going to treat this. You will also have to give annual updates to them including what was added, how much, and when as well as soil tests in the fall of every year to check progress.

Give me a call when you get a chance and we can discuss this further.

Thank you,
Mary Cullip
Gardiner's Go-Fers, LLC
(970) 466-0492

FORM

19

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

SPILL/RELEASE REPORT

This form is to be submitted by the party responsible for the oil and gas spill or release. Any spill or release which may impact waters of the State must be reported as soon as practicable; any spill over 20 bbls must be reported within 24 hours and all spills over five bbls must be reported within ten days. Submit a Site Investigation and Remediation Workplan (Form 27) when requested by the Director.

Spill report taken by:

FACILITY ID:

OPERATOR INFORMATION

Name of Operator: Saga Petroleum OGCC Operator No: 101101
Address: 6000 17th St Suite 1700 N
City: Denver State: CO Zip: 80202
Contact Person: David A. Petty

Phone Numbers

No: 303 996-7766 X332
Fax: 303 996-7767
E-Mail: dpetty@sagapetroleum.com

DESCRIPTION OF SPILL OR RELEASE

Date of Incident: 4/29/11 Facility Name & No.: Jones Dupree #1 County: Washington
Type of Facility (well, tank battery, flow line, pit): well / Tank battery QtrQtr: SWNE Section: 26
Well Name and Number: Rush Willadel - Jones Dupree #1 Township: 3S Range: 51W
API Number: 05-121-05415 Meridian: 6

Specify volume spilled and recovered (in bbls) for the following materials:

Oil spilled: 5-6 Oil recov'd: 5-6 Water spilled: _____ Water recov'd: _____ Other spilled: _____ Other recov'd: _____Ground Water impacted? ☐ Yes ☒ NoSurface Water impacted? ☐ Yes ☒ NoContained within berm? ☐ Yes ☒ No

Area and vertical extent of spill: _____ x _____

Current land use: lease road through crop Weather conditions: _____Soil/geology description: sandy loam

IF LESS THAN A MILE, report distance IN FEET to nearest.... Surface water: _____ wetlands: _____ buildings: _____

N/A

Livestock: _____ water wells: _____ Depth to shallowest ground water: _____

Cause of spill (e.g., equipment failure, human error, etc.): Human error Detailed description of the spill/release incident:Cleaned out Tank bottom. Some oil soaked soil placed on road.

CORRECTIVE ACTION

Describe immediate response (how stopped, contained and recovered): Oil + Stained soil placed in a lined pitDescribe any emergency pits constructed: 38' x 90' linedHow was the extent of contamination determined: Soil dug up + placed in pitFurther remediation activities proposed (attach separate sheet if needed): Overall soil test + haul to land fill

Describe measures taken to prevent problem from reoccurring:

educate employees

OTHER NOTIFICATIONS

List the parties and agencies notified (County, BLM, EPA, DOT, Local Emergency Planning Coordinator or other).


Date	Agency	Contact	Phone	Response

Spill/Release Tracking No: _____

To see all the details that are visible on the screen, use the "Print" link next to the map.

Google



 38' x 90' lined pit

