

State of Colorado
Oil and Gas Conservation Commission



FOR OGCC USE ONLY

REM 8333
Document 2526228
Date 05/09/2016

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

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.

OGCC Employee:

- Spill Complaint
- Inspection NOAV

Tracking No:

CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

- Spill or Release
- Plug & Abandon
- Central Facility Closure
- Site/Facility Closure
- Other (describe): Pit Closure; Fac ID 100600

OGCC Operator Number: <u>36200</u> Name of Operator: <u>Grynberg Petroleum Company</u> Address: <u>3600 South Yosemite Street, Suite 900</u> City: <u>Denver</u> State: <u>CO</u> Zip: <u>80237</u>	Contact Name and Telephone: <u>Joe Mazotti</u> No: <u>303-850-7490</u> Fax: _____
API Number: <u>05-081-05709</u> County: <u>Moffat</u> Facility Name: <u>Chivington</u> Facility Number: <u>1</u> Well Name: <u>Chivington</u> Well Number: <u>1</u> Location: (QtrQtr, Sec, Twp, Rng, Meridian): <u>SESE, Sec. 20, T12N - R97W, 6th p.m.</u> Latitude: <u>40.980277</u> Longitude: <u>-108.308690</u>	

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc): Drill cuttings, produced water & 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.): Oil & gas production

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Talamantes loam, 0 - 6% slopes

Potential receptors (water wells within 1/4 mi, surface waters, etc.): Potential seasonal stream located within 1/4 mile.

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>Local soil contamination confirmed to pit</u>	<u>COGCC Inspection (Doc #669300751)</u>
<input type="checkbox"/> Vegetation	_____	_____
<input type="checkbox"/> Groundwater	_____	_____
<input type="checkbox"/> Surface Water	_____	_____

REMEDIATION WORKPLAN

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

Per conversations between Kris Neidel and Chris DiMarco (Lesair Environmental), the initial pit remediation workplan and soil sampling was approved and implemented. We are now in the final reclamation phase

Describe how source is to be removed:

Soils have been carefully excavated and placed within liner and surface-berm containment on-site until a waste soil characterization is completed. After receiving the characterization of waste soils, The soils have been disposed of at an appropriately permitted disposal facility will be contracted to accept the soils where a manifest system to track the disposal process will be employed .

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.:

See attached Pit Remediation Plan for the proposed final reclamation of the Chivington #1 pit.



Tracking Number: _____
Name of Operator: _____
OGCC Operator No: 36200
Received Date: _____
Well Name & No: Chivington #1
Facility Name & No: 100600 / Rem* 8333

Page 2
REMEDIATION WORKPLAN (Cont.)

OGCC Employee: _____

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.

Fac ID: 100600
Project #: 8333

See attached Pit Remediation Plan for the proposed final reclamation of the Chivington #1 pit.

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.):

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: _____ 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: Joe Mazotti Signed: _____
Title: Regulatory Manager Date: 5-6-2016

OGCC Approved: [Signature] Title: EPS Date: 5/16/16

See next page for conditions of approval...

Conditions of Approval (COAs) for Pit Facility ID 100600:

The Form 27 states that samples will be analyzed for BTEX, TOC and TPH. The conditions of approval clarify that TOC and TPH have been interchanged throughout the submittal and that TPH shall include GRO and DRO.

COGCC concurs with the proposed sampling locations and analyte list.

- Conditionally approved, however, additional information or activities may be required during the course of remediation.
- Collect soil samples for pH, EC, SAR, and arsenic to adequately characterize background conditions.
- It is stated that Table 1 list the estimated timeframe for completing the work. During review of the Form 27, the COGCC could not find this time schedule. Please provide the time schedule for completing the work.
- Pit excavation and backfilling shall be completed by Fall 2016.
- Notify the COGCC at least 72 hours, kris.kneidel@state.co.us 970-871-1963, prior to conducting sampling and remedial activities, if any.
- Discrete soil samples shall be collected from the area of where the separator (dehy) was located to adequately characterize whether an impact has occurred Composite samples will NOT be accepted. Samples in the area(s) most likely to have been impacted shall be analyzed for the complete constituents listed in Table 910-1.
- COGCC was informed that flowlines for separator (dehy) were removed. Please include this information on final report. Any flowlines abandon on location shall comply with COGCC rule 1103.
- Provide a monthly update by the 1st of each month during remediation of the Pit Facility.
- Surface reclamation must meet the COGCC 1000 series rules. Approval of this Form 27 does not imply approval of the reclamation plan submitted by the operator. The operator shall contact the COGCC regional reclamation specialist and surface owner prior to final reclamation.