



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 #6887 OGCC Employee: [] Spill [] Complaint [] Inspection [] NOAV Tracking No: 2222207

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

[x] Spill or Release [] Plug & Abandon [] Central Facility Closure [] Site/Facility Closure [] Other (describe):

OGCC Operator Number: 100200 Name of Operator: Lone Pine Gas, Inc. Address: 4505 S. Broadway City: Englewood State: CO Zip: 80113 Contact Name and Telephone: Steven Shute No: 970-928-9208 Fax: email: pipeline@rof.net

API Number: 427281, 324634 County: Jackson 057 Facility Name: M Spaulding Tank Battery Facility Number: 427281, 324634 Well Name: Well Number: Location: (QtrQtr, Sec, Twp, Rng, Meridian): SWSE Sec 28, 9N, 81W Latitude: 42.718009 Longitude: -106.498498

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc): crude Site Conditions: Is location within a sensitive area (according to Rule 901e)? [] Y [x] N If yes, attach evaluation. Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Potential receptors (water wells within 1/4 mi, surface waters, etc.): Spring Gulch Creek Description of Impact (if previously provided, refer to that form or document): Impacted Media (check): [x] Soils [] Vegetation [] Groundwater [x] Surface Water Extent of Impact: sand used to soak up oil How Determined: Settling Ponds and Spring Gulch Creek Pumper found on daily visit

REMEDIALTION WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document): See attached Describe how source is to be removed: See attached 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

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

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.):

Not impacted as this was a surface spill that was contained within the confines of the settling ponds and stream channel.

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.

Remove collected solid and liquid waste at approved facility. Sample to determine any further impact.

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:

See attached sample plan.

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

Facility to be determined, Milner Landfill is anticipated for solid waste, Oil/water is yet to be determined.

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: 5-1-12 Date Site Investigation Completed: 7-31-12 Date Remediation Plan Submitted: tbid
Remediation Start Date: tpd Anticipated Completion Date: tpd 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: Randall R. Miller, PE, PLS

Signed: Randall R. Miller

Title: Environmental Consultant

Date: 3-9-2012

OGCC Approved: [Signature]

Title: Env. Sup.

Date: 3/12/12

*Please see attached email dated March 12, 2012.
Additional information may be required after further review*

Colorado Oil and Gas Conservation Commission

Lone Pine Gas, Inc. ^{Location} Facility ID 324634; Facility ID 42728/
Form 27 Supplement– March 9, 2012

Describe initial action taken: Also see Form 19 filled out for incident. The release was discovered by the pumper on 12/15/11 during a daily maintenance schedule. Absorbent booms were placed at the outlet of Pond 5 and prior to the sampling discharge weir at that time. See attached Figure 1 for site layout. From 12/26/11 to 1/18/12 the surface oil was pumped off of Ponds 1 to 5 and placed in the Holding Pond. After the free oil was removed, fine sand was used to absorb the oil along the banks of Ponds 4 and 5. Approximately 40 – 50 cy of oil soaked sand was then removed, stock piled and bermed at the adjacent Margaret Spaulding 4 location. = ~~324634~~ = loc. ID # 324634
Process design analysis and modifications have been initiated to improve the reliability and efficiency of the system.

Describe how source is to be removed: The contaminated oil-soaked sand will be sampled and disposed of at an approved facility (probably in Milner, as it is closest). The oil that was recovered and placed in the Holding Pond will be collected and transported to an approved facility. It is assumed that the oil would cause additional damage to the separation process, now or after it is upgraded. Lone Pine Gas intends to close the Holding Pond by the end of July, 2012 and perform a subsurface investigation of the groundwater at that time. Conversations with Lone Pine Gas contractors suspect that there may be a spring South of Ponds 1, 2, 3, and the Holding Pond, but further investigation is necessary. All visibly identified oil contamination is contained, but due to frost, snow, and seasonal limitations; removal it not feasible until the ground thaws out.

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 ground water, insitu bioremediation, burning of oily vegetation, etc.: All recovered oil/water mixture now present in the Holding Pond and oil-soaked sand and soil will be disposed of at a licensed facility (as stated above).

Further Site Investigation:

Collect surface water samples: Anions (CL, BR, NO2, NO3, O-Phosphate, SO4), Dissolved Metals (Ca, Fe, Mg, Mn, K, Na), Dissolved Metals (Se), Fluoride, Alkalinity Series (Carbonate, Bicarbonate, Hydroxide, and Total Alkalinity), Total Dissolved Solids, Specific Conductance, Ph, SAR, EC, BTEX, TPH (DRO and GRO),

- a. Spring Gulch – upgradient
- b. Spring Gulch – point of discharge
- c. Spring Gulch – down gradient
- d. Grab Samples in Ponds 1, 2, 3, 4, 5, and Holding Pond

Collect Soil Samples along flow path where visible staining is present.

Fischer, Alex

From: Randy Miller [randy@npeng.com]
Sent: Friday, March 09, 2012 3:21 PM
To: Fischer, Alex
Cc: Steven Shute; Cody Lofland
Subject: Fwd: Lone Pine Gas Facility ID 324634
Attachments: form27 Pg 1.pdf; form 27 Pg2.pdf; Form 27 Supplement.pdf

Hi Alex,

Please find the attached Form 27 for the recent crude oil spill at the Lone Pine Gas Facility ID 324634. Please let me know if you have any additional concerns or anything.

Thank you,

--

Randy Miller, President

North Park Engineering & Consulting, Inc.

PO Box 395
Walden, CO 80480

[970-218-4974](tel:970-218-4974) (cell)
[970-723-3725](tel:970-723-3725) (office)
[970-723-8420](tel:970-723-8420) (fax)

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Fischer, Alex

From: Fischer, Alex
Sent: Monday, March 12, 2012 9:21 AM
To: 'randy@npeng.com'
Cc: 'Steven Shute'; Cody Lofland; Neidel, Kris
Subject: FW: Lone Pine Gas Facility ID 324634
Attachments: form27 Pg 1.pdf; form 27 Pg2.pdf; Form 27 Supplement.pdf

Randy,

Thanks for the update. There is a reference to Figure 1 that was not attached. Please provide that figure.

Has the 40-50 cubic yards been characterized for disposal at the Milner landfill? Please provide the time schedule for disposal of this material that currently is temporarily being stored at the Margaret Spaulding 4 location. This material will need to be disposed before everything thaws.

Please provide details of the process design and modifications that have been initiated.

As indicated in Inspection Form (Document Number 667100002), provide:

- A subsurface site investigation to determine groundwater conditions in the vicinity of the Holding Pond, Pond 1, Pond 2, and Pond 3 and hydraulic connectivity between the ponds with time line;
- Provide "as-built" process flow diagram of the Lone Pine Gas Inc. Processing Plant; and
- Provide evidence that the three 400 bbl out of service tanks have been mechanically removed from surface and their flow lines capped.

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

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To: Fischer, Alex
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