

NM OIL CONSERVATION

ARTESIA DISTRICT

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

AUG 23 2017

Form C-141
Revised August 8, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

RECEIVED
Submit Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

0AB172403A504

OPERATOR		<input checked="" type="checkbox"/> Initial Report	<input type="checkbox"/> Final Report
Name of Company: COG Operating LLC	OGRID # 229137	Contact: Robert McNeill	
Address: 600 West Illinois Avenue, Midland TX 79701		Telephone No. 432-683-7443	
Facility Name: Loco Hills SWD 33 #004		Facility Type: SWD	
Surface Owner: Federal	Mineral Owner: Federal	API No. 30-015-37269	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	33	17S	30E	840	South	660	East	Eddy

Latitude 32.7860756 Longitude -103.9705276

NATURE OF RELEASE

Type of Release: Oil and Produced Water	Volume of Release: 100 bbl. Oil & 600 bbl. Pw	Volume Recovered: 95 bbl. Oil & 590 Produced Water
Source of Release: Lightning Strike	Date and Hour of Occurrence: August 21, 2017 2:00 am	Date and Hour of Discovery: August 21, 2017 2:00 am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Ms. Weaver - NMOCD / Ms. Tucker - BLM	
By Whom? Dakota Neel	Date and Hour: August 21, 2017 4:57 pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.*		
The release occurred when lightning struck the facility. The facility and equipment were a total loss.		
Describe Area Affected and Cleanup Action Taken.*		
The release remained within the bermed area. A vacuum truck was dispatched to remove all freestanding fluids. Concho will have the spill area sampled to delineate any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Signature: <u>Rebecca Haskell</u>	OIL CONSERVATION DIVISION	
Printed Name: Rebecca Haskell	Approved by Environmental Specialist: <u>Crystal W...</u>	
Title: Senior HSE Coordinator	Approval Date: <u>8/28/17</u>	Expiration Date: <u>N/A</u>
E-mail Address: rhaskell@concho.com	Conditions of Approval: <u>see attached</u>	Attached: <u>APP-4359</u>
Date: August 23, 2017 Phone: 432-683-7443		

* Attach Additional Sheets If Necessary

8/28/17 AB

Operator/Responsible Party,

The OCD has received the form C-141 you provided on **8/23/17** regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number ARP-4359 has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District II office in Artesia on or before 9/23/17. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold

OCD Environmental Bureau Chief

1220 South St. Francis Drive

Santa Fe, New Mexico 87505

505-476-3465

jim.griswold@state.nm.us

Weaver, Crystal, EMNRD

From: Weaver, Crystal, EMNRD
Sent: Friday, August 25, 2017 3:50 PM
To: 'Rebecca Haskell'; stucker@blm.gov
Cc: Bratcher, Mike, EMNRD; Jim Amos (jamos@blm.gov)
Subject: RE: (C-141 Initial) LOCO HILLS SWD 33 #004 8/21/2017 (30-015-37269)

Hello Becky,

On the C-141 it states "release remained in the bermed area," however when I look on Google Earth I show (as of most current imagery date 2/1/17) that the bermed area around the tank battery is also lined. So I called COG cause I noticed the volume recovered was pretty high and we talked about the status of the liner. It sounds like as far as COG could tell it didn't sustain much direct impact from the lightning and seems to have held up for the most part thru the fire. OCD will in this case require that the liner be fully checked for any breaches and delineation be conducted at any sites where a breach had occurred. Photos also will be helpful on this one. Glad to hear that the liner appears to have held for the most part. Following this email a signed C-141 with COAs attached will be sent soon by OCD. In the mean time please proceed with any immediate response action and drafting a delineation plan.

Thank you kindly,

Crystal Weaver

Environmental Specialist
OCD – Artesia District II
811 S. 1st Street
Artesia, NM 88210
Office: 575-748-1283 ext. 101
Cell: 575-840-5963
Fax: 575-748-9720

From: Rebecca Haskell [mailto:RHaskell@concho.com]
Sent: Wednesday, August 23, 2017 7:26 AM
To: Weaver, Crystal, EMNRD <Crystal.Weaver@state.nm.us>; stucker@blm.gov
Cc: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Jim Amos (jamos@blm.gov) <jamos@blm.gov>
Subject: (C-141 Initial) LOCO HILLS SWD 33 #004 8/21/2017 (30-015-37269)

Ms. Weaver / Ms. Tucker,

Please see the attached Initial C-141 for your consideration. If you have any questions or concerns please contact me.

Thank You,

Becky Haskell
Senior HSE Coordinator
COG Operating LLC
600 W Illinois Avenue | Midland, TX 79701
Direct: 432-818-2372 | Main: 432.683.7443



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From: Dakota Neel
Sent: Monday, August 21, 2017 4:57 PM
To: Weaver, Crystal, EMNRD (Crystal.Weaver@state.nm.us); stucker@blm.gov; Mike.Bratcher@state.nm.us
Cc: James_Amos@blm.gov; Robert McNeill; Rebecca Haskell
Subject: (Notification) LOCO HILLS SWD 33 #004 8/21/2017 (30-015-37269)

Ms. Weaver/Ms. Tucker,

COG Operating LLC is reporting a release at the LOCO HILLS SWD 33 #004 (30-015-37269)

Unit P Section 33 Township 17S Range 30E

OGRID# [229137]

The release occurred on 8/21/2017 at approximately 2:00:00 AM

Estimated Released: Approx: >25 bbls

Estimated Recovered: Approx: Unknown at this time. (Fluid recovery is ongoing)

The release occurred when lightning struck the facility. The facility and equipment were a total loss. The flow lines coming into the facility were isolated and the release remained within the bermed area. Vacuum trucks are on site recovering fluid and an updated released and recovered amount will be provided with the C-141. If you have any additional questions please don't hesitate to contact me.

Thank you,

Dakota Neel
HSE Coordinator
COG Operating LLC
Cell: [432-215-2783](tel:432-215-2783)
dneel2@concho.com

2407 Pecos Ave.
Artesia , NM 88210



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Bratcher, Mike, EMNRD

From: Dakota Neel <DNeel2@concho.com>
Sent: Monday, August 21, 2017 3:57 PM
To: Weaver, Crystal, EMNRD; stucker@blm.gov; Bratcher, Mike, EMNRD
Cc: James_Amos@blm.gov; Robert McNeill; Rebecca Haskell
Subject: (Notification) LOCO HILLS SWD 33 #004 8/21/2017 (30-015-37269)

Ms. Weaver/Ms. Tucker,

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Thank you,

Dakota Neel
HSE Coordinator
COG Operating LLC
Cell: 432-215-2783
dneel2@concho.com

2407 Pecos Ave.
Artesia , NM 88210



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