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

rate of New Mexico MAY **0 9 2018**

State of New Mexico

Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

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

Oil Conservation Division

Oil Conservation Division

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

NAB18	31305	740LP	Rele	ase Notific	atio	on and Co	rre	ctive Ac	ction				
						OPERATOR				Init	ial Report		Final Repor
ame of Company: COG Production, LLC (OGRID #217955)						Contact:	I	Robert Mcl	Veill				
ddress: 600 West Illinois Avenue, Midland TX 79701						Telephone N	0.	432-683-74	143				
acility Name: Cabo Wabo 25 Federal Com #003H						Facility Type	e: T	ank Battery	/				
urface Owner: Federal Mineral Owner:						: Federal				API No. 30-015-42507			
				LOCA	TIC	ON OF REL	EA	SE					
Jnit Letter	Section	Township	Range	Feet from the	Nor	th/South Line	Feet	from the	East/V	Vest Line		Coun	ity

Produced Water	O 25	25S	29E	540	South	1,650	West	Eddy		
Volume of Release: Produced Water Sobb. Sobb. Sobb.			Lati	tude 32.0953	1660 Longitude	-103.93453739 NAI	D83			
Produced Water				NA	TURE OF RE	LEASE		4		
Date and Hour of Occurrence: May 6, 2018 8:00am May 6, 2018 8:00am If YES, To Whom? Date and Hour of Occurrence: May 6, 2018 8:00am If YES, To Whom? Date and Hour: If YES, To Whom? Date and Hour: If YES, Volume Impacting the Watercourse. If YES, Volume Impacting the Watercourse. Describe Cause of Problem and Remedial Action Taken.* Describe Cause of Problem and Remedial Action Taken.* Describe Area Affected and Cleanup Action Taken.* The release was caused by a hole in the pipe below the water dump. Pipe is being replaced Describe Area Affected and Cleanup Action Taken.* The release occurred thin the lined facility. A vacuum truck was dispatched to remove all freestanding fluids. Concho will have the spill area evaluated for any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation scrivities. It 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 egulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger published 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. OIL CONSERVATION DIVISION Approved by Environingmaal Specialists. Approved by Environingmaal Specialists. Approved by Environingmaal Specialists. OIL CONSERVATION DATE. Approved Specialists. OIL CONSERVATION DATE. Approved Specialists.	Type of Release:						Volume R			
Hole in pipe May 6, 2018 8:00am May 6, 2018 8:00am Was Immediate Notice Given?		Produced Water					D . 1	7-7-7-7		
Yes No Not Required If YES, To Whom? Date and Hour: If YES, Volume Impacting the Watercourse. If	Source of Release: Hole in pipe					May 6, 2018 8:00am	Date and			
Was a Watercourse Reached? Yes No If YES, Volume Impacting the Watercourse. If YES, Volume Impacting the Wat	Was Immediate Not	ice Given?		No 🛛 Not F		To Whom?				
Yes No	By Whom?									
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Oate: May 9, 2018 Phone: 432-253-4515	Date: May 9, 2018		Pho	one: 432-253-45	13	SPE	UTTHUTE	JKP4738		

^{*} Attach Additional Sheets If Necessary

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 5/9/2018 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 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 <u>division-approved corrective action</u> 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 2 office in <u>ARTESIA</u> on or before <u>6/9/2018</u>. 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