Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action OPERATOR Initial Report Final Report Name of Company: COG Operating LLC Contact: Robert MeNeill Address: 600 West Illinois Avenue, Midland TX 79701 Telephone No. 432-230-0077 Facility Name: Blue Jay Federal #001H Facility Type: Battery Surface Owner: Federal API No. 30-025-42338 LOCATION OF RELEASE Unit Latter Section Township Range Feet from the East/West Line Lea County Surface Owner: Federal IAPI No. 30-025-42338 LOCATION OF RELEASE Type of Release: Oil and Produced Water Volume of Release: Source of Release: Oil and Produced Water Volume of Release: Source of Release:: Oil and Produced Water Volume of Release: Source of Release:: Oil and Produced Water Was Immediate Notice Given? (If YES, To Non? Reference Volume of Release: Intellity Non Not Required Mater Machine Dynabio GPW Diat and Hour Obcurrence: </th <th colspan="3">1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa Fe, NM 87505</th>	1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa Fe, NM 87505		
Name of Company: COG Operating LLC Contact: Robert MeNeill Contact: Robert MeNeill Address: 600 West Illinois X-enues, Midland TX 79701 Telephone No. 32:320-0077 Facility Name: Blue Jay Federal #001H Facility Type: Battery Surface Owner: Federal Immeral Owner: Federal API No. 30-025-42338 Int Letter Section Township Range Fet from the Control South Line Fest from the Control South Line County Lea 32.5664367366954,-103.495571125436 NATULR OF RELEASE Volume Recovered: IP7 Pbit of Oil: 159 bbits of PW 122 bbits of Oil: 159 bbits of PW Source of Release: Oil and Produced Water Volume of Reclease: Volume Recovered: 107 21/2016 Minkown 107/21/2016 Minkown 107/21/2016 Minkown Volume Cole Course Receivered: Yes No Not Required No 102/21/2016 Minkown 102/21/201			
Address: 600 West Illinois Avenue, Mildland TX 79701 Telephone No. 432-230-0077 Facility Name: Blue Jay Federal #001H Facility Type: Battery Surface Owner: Federal Mineral Owner: Federal API No. 30-025-42338 LOCATION OF RELEASE County 2310 East County Surface Owner: Federal Mineral Owner: Federal API No. 30-025-42338 Unit Letter Section Township Range Feet from the East/West Line County South 2310 East Least Least Least Least Soute of Release: Oil and Produced Water Volture of Recipes: 199 bibl of Oil: 169 bibls of PW 188 bibl of Oil: 169 bibl of OFW 188 bibl of Oil: 169 bibl of OII 199 bibl of OIII 199 bibl of OII	~	OPERATOR 🛛 Initial Report 🗍 Final Report	
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E-mail Address: dneel2@concho.com Conditions of Approval: Attached L Date: 10/28/2016 Phone: 575-748-6933 Attached directive Attach Additional Sheets If Necessary Attached Date: Attached Date:	Printed Name: Dakota Neel	Approved by Environmental Specialist:	
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		see attached directive	
	Attach Additional Sheets If Necessary	1RP-4492 nOY1705551768 pOY1705552039	

Operator/Responsible Party,

The OCD has received the form C-141 you provided on _10/28/2016_ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number __1R-_4492_ 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 _1_ office in __Hobbs____ on or before __3/24/2017_. 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; C_6 thru C_{36}), 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.

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