NM OIL CONSERVATION

ARTESIA DISTRICT

Form C-141 Revised April 3, 2017

District I 1625 N. French Dr., Hobbs, NM 88240 District II B11 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

JUN 1 9 2017 **Energy Minerals and Natural Resources Oil Conservation Division** 

**RECEIVED** accordance with 19.15.29 NMAC.

## **Release Notification and Corrective Action**

State of New Mexico

1220 South St. Francis Dr. Santa Fe, NM 87505

_NAB1717131551		OPERATO	R	🛛 Initia	l Report	Final Report
Name of Company OXY USA INC	040	Contact CAS	SEY L SUMMERS			
Address PO BOX 4294; HOUSTON, TX 7721	0	Telephone No.	575-513-8289			
Facility Name CEDAR CANYON 16 SWD #3	3	Facility Type	SWD			·
Surface Owner Private	Mineral Owner	STATE		API No.	30-015-413	24

## LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	16	245	29E	725	NORTH	600	WEST	EDDY

Latitude\_32.2228966\_ Longitude\_-103.9960938\_ NAD83

NATURE OF RELEASE

430 bbls produced water       fluid         Source of Release LIGHTNING STRIKE FACILITY       Date and Hour of Occurrence 06/07/2017       Date and Hour of Discovery 06/07/2017         Was Immediate Notice Given?       If YES, To Whom?       If YES, To Whom?       Date and Hour of Discovery 06/07/2017 5:11 PM         By Whom?       CASEY SUMMERS       Date and Hour 06/07/2017 5:11 PM       # 4 1 [] pm         By Whom?       CASEY SUMMERS       Date and Hour 06/07/2017 5:11 PM       # 4 1 [] pm         Was a Watercourse Reached?       If YES, Volume Impacting the Watercourse.       If YES, Volume Impacting the Watercourse.         Describe Cause of Problem and Remedial Action Taken.*       Leaked was caused by a lightning strike that caused a fire and the rupture of three fibergiass water tanks. Approximately 450 bbls of total fluid stayed in containment and approximately 30 bbls left containment. Oxy recovered all free fluids via vacuum trucks that stayed in containment.         Describe Area Affected and Cleanup Action Taken.*       The affected area is to be determined and subject to GPS tracking. Remediation will be completed in accordance with a remediation plan approved by the NMOCD and SLO.         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 Tinal Report does not releve the operator of iso		OF REPERSE		
Source of Release LIGHTNING STRIKE FACILITY       Date and Hour of Occurrence       Date and Hour of Discovery         Was Immediate Notice Given?       Yes       No       Not Required       MiKE BRATCHER-NMOCD; CRYSTAL WEAVER-NMOCD         By Whom?       CASEY SUMMERS       Date and Hour of Occurrence       0607/2017       Silvent Avector         By Whom?       CASEY SUMMERS       Date and Hour of Occurrence       0607/2017       Silvent Avector         By Whom?       CASEY SUMMERS       Date and Hour of Occurrence       0607/2017       Silvent Avector         Was a Watercourse Reached?       Yes       No       If YES, Volume Impacting the Watercourse.       Presence         If a Watercourse was Impacted, Describe Fully.*       Describe Cause of Problem and Remedial Action Taken.*       Leaked was caused by a lightning strike that caused a fire and the rupture of three fiberglass water tanks. Approximately 450 bbls of total fluid stayed in containment. Oxy recovered all free fluids via vacuum trucks that stayed in containment.         Describe Area Affected and Cleanup Action Taken.*       The affected area is to be determined and subject to GPS tracking. Remediation will be completed in accordance with a remediation plan approved by the NMOCD and SLO.         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 have failed to adequately investigate and remediate containianion hal pose a threat to ground water, surface water, human healt	Type of Release OIL & PRODUCED WATER			
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Title:     Environmental Advisor     Approval Date:     bl 2017     Expiration Date:     NHA       E-mail Address:     casey summers@oxy.com     Conditions of Approval;     Attached     Attached       Date:     bate:     bate:     bate:     bate:     bate:     bate:     bate:     bate:			Ca. KA Male,	
Date: G-16-17 Phone: 575-513-8289 See attached		Approval Date: 62017	Expiration Date: NHA	
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	Attach Additional Sheets If Necessary	<b> </b>	2 RD_ A7.5	

## Operator/Responsible Party,

The OCD has received the form C-141 you provided on 6/19/17 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 3RP. 4264 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 II office in Artesia on or before 7/19/17. 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; C<sub>6</sub> thru C<sub>36</sub>), 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<sub>6</sub> thru C<sub>36</sub>), 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