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

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

Received on 2/8/18 OCD - District II

Form C-141
Revised April 3, 2017

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

NAB1809438477

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Marathon Oil Permian LLC 372098	Contact Callie Karrigan
Address 5555 San Felipe Street, Houston, Texas 77056	Telephone No. 405-202-1028 (cell) 575-297-0956 (office)
Facility Name: Sterling 20 State 1H	Facility Type Oil and gas production facilities

Surface: Owner: state SLO	Mineral: Owner: state SLO	API No. : 30-015-42731

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	17	23S	27E	240	south	1950	east	Eddy

Latitude 32.2985.**Longitude** -104.2086

NATURE OF RELEASE

Type of Release: oil	Volume of Release 51 bbl	Volume Recovered: ~40 bbl
Source of Release: oil tank flow line	Date and Hour of Occurrence 02/02/2018 05:40 am	Date and Hour of Discovery 02/02/2018 05:45 am
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Eddy County – Crystal Weaver	
By Whom? Callie Karrigan	Date and Hour 02/02/2018 02:51 pm	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*
Not applicable.

Describe Cause of Problem and Remedial Action Taken.*
An oil hauler arrived on location to load oil for sales. The hauler hooked onto oil tank and inadvertently opened the valve to the adjacent tank, releasing approximately 51 bbls of oil into lined containment.

Describe Area Affected and Cleanup Action Taken.*
The release remained in an approximately 55'x30' area in lined containment. A vac truck was immediately dispatched to recover standing fluids. An estimated 40 barrels was recovered on 2/2/2018. The remaining material, oil contaminated gravel/rock, will be removed from the lined containment and disposed at R360. Absorbent will be put down to recover fluid from the liner and a liner assessment will be conducted prior to washing the liner.

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.

Callie Karrigan Signature:	OIL CONSERVATION DIVISION	
Printed Name: Callie Karrigan	Approved by Environmental Specialist:	
Title: HES Environmental Professional	Approval Date: 4/2/18	Expiration Date: N/A
E-mail Address: cnkarrigan@marathonoil.com	Conditions of Approval: see attached	Attached ☒ 2RP-4690
Date: Phone: 405-202-1028(cell) 575-297-0956 (office)		

* Attach Additional Sheets If Necessary

4/2/18 AB

Operator/Responsible Party,

The OCD has received the form C-141 you provided on **2/8/18** regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 2RP-4690 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 4/13/18. 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_6 thru C_{36}), 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.

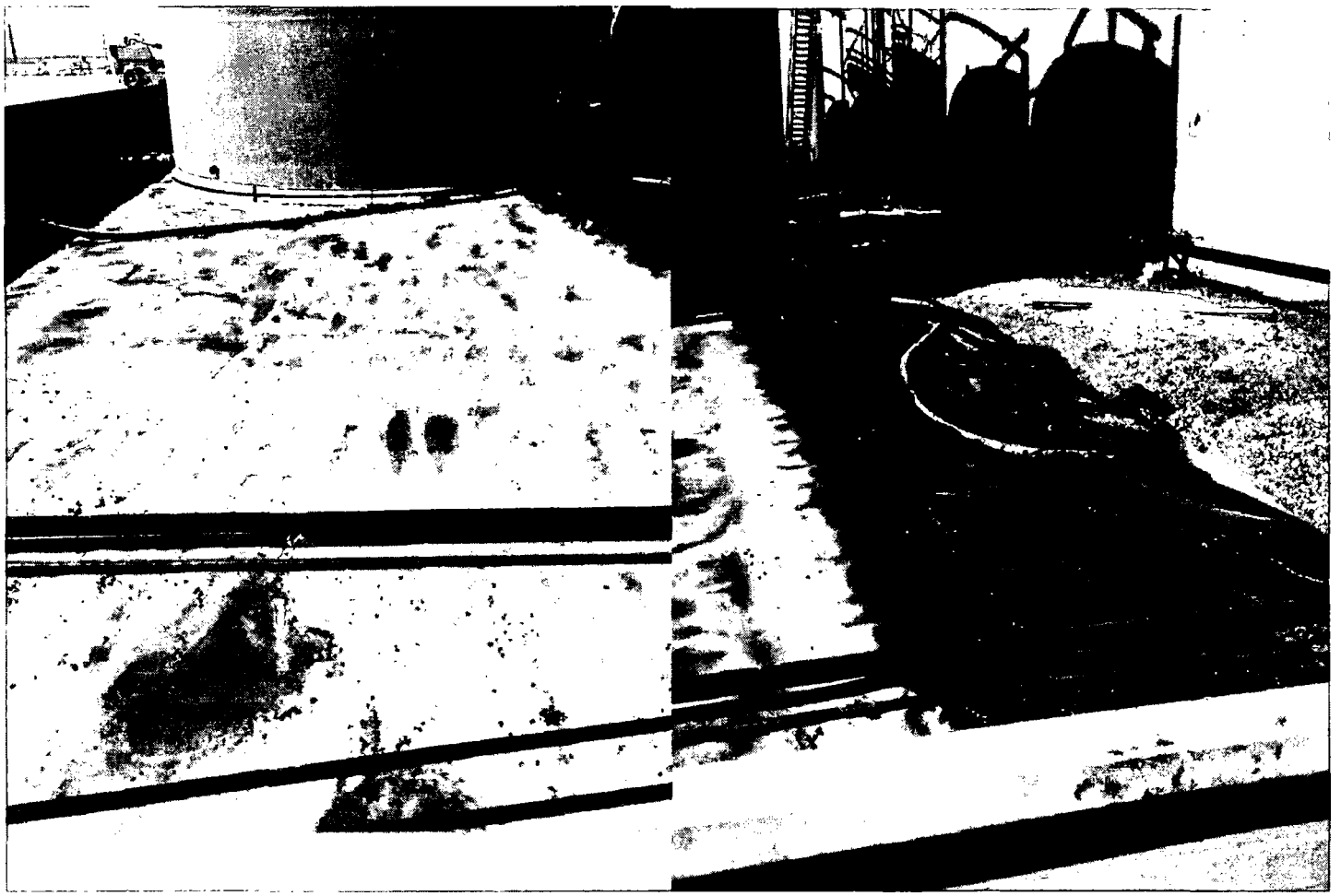
•Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, 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.

Jim Griswold
OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us



Picture after vac truck recovered majority of standing fluids

Weaver, Crystal, EMNRD

From: Karrigan, Callie N. (MRO) <cnkarrigan@marathonoil.com>
Sent: Friday, February 2, 2018 2:51 PM
To: Weaver, Crystal, EMNRD
Cc: Van Curen, Jennifer (MRO)
Subject: Sterling 20 State 1H 24 hour notification

Good afternoon,

At 5:40 am, an oil hauler arrived on location to begin loading. While loading, approximately 51 barrels of oil were released into steel and lined containment affecting a 55'x30' area. Standing fluids were recovered.

I contacted Kim with Talon LPE to conduct an assessment of the site and coordinate clean-up. We will submit a C141.

Let me know if you have any questions.

Callie Karrigan
Marathon Oil Company
HES Professional - Environmental
2423 Bonita Street
Phone: 575-297-0691
Cell: 405-202-1028

Weaver, Crystal, EMNRD

From: Karrigan, Callie N. (MRO) <cnkarrigan@marathonoil.com>
Sent: Thursday, February 8, 2018 11:25 AM
To: Weaver, Crystal, EMNRD
Subject: Marathon Oil Company - Sterling 20 State 1H Initial C141
Attachments: C-141 Form Marathon Oil.doc

Hi Crystal,

Please see the attached for our initial C141 submittal. We are working with Kim at Talon LPE for clean-up and assessments.

Callie

From: Karrigan, Callie N. (MRO)
Sent: Friday, February 02, 2018 2:51 PM
To: crystal.weaver@state.nm.us
Cc: Van Curen, Jennifer (MRO) <jvancuren@marathonoil.com>
Subject: Sterling 20 State 1H 24 hour notification

Good afternoon,

At 5:40 am, an oil hauler arrived on location to begin loading. While loading, approximately 51 barrels of oil were released into steel and lined containment affecting a 55'x30' area. Standing fluids were recovered.

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