

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

MAY 29 2018

Form C-141
Revised April 3, 2017
Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.
DISTRICT II-ARTESIA O.C.D.

Release Notification and Corrective Action

NAB1816327517 **OPERATOR** ☒ Initial Report ☐ Final Report

| | | |
|---|---|----------------------|
| Name of Company Devon Energy Production Company 6137 | Contact Merle Lewis, Production Foreman | |
| Address 6488 Seven Rivers Hwy Artesia, NM 88210 | Telephone No. 575-748-3371 | |
| Facility Name Tomb Raider 1 12 Federal 62H | Facility Type Oil | |
| Surface Owner Federal | Mineral Owner Federal | API No. 30-015-43889 |

LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| C | 1 | 23S | 31E | | | | | Eddy |

Latitude_32.340183_ Longitude_103.735711_ NAD83

NATURE OF RELEASE

| | | |
|--|--|--|
| Type of Release Oil & Natural Gas | Volume of Release 7.73bbbls oil & 152 MCF | Volume Recovered 1bbbls oil |
| Source of Release Flowline | Date and Hour of Occurrence May 15, 2018 @ 9:15 AM MST | Date and Hour of Discovery May 15, 2018 @ 9:15 AM MST |
| Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom? NMOCD-Mike Bratcher & Crystal Weaver BLM-Shelly Tucker | |
| By Whom? Mike Shoemaker, EHS Professional | Date and Hour May 16, 2018 @ 6:57 AM MST | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume Impacting the Watercourse. N/A | |
| If a Watercourse was Impacted, Describe Fully.* N/A | | |
| Describe Cause of Problem and Remedial Action Taken.* A contractor was taking samples at the Tomb Raider 62H well head and their operator opened the sample point on the flowline and removed the 1" bull plug causing the release. The compressor was turned off and the 1" ball valve was closed to stop the release. | | |
| Describe Area Affected and Cleanup Action Taken.* Approximately 7.73bbbl oil & 152 MCF of gas were released. A vacuum truck was dispatched and recovered approximately 1bbbls oil from location. An Environmental contractor will be contacted to assist with further delineation and remediation efforts. | | |
| 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: <i>Sheila Fisher</i> | OIL CONSERVATION DIVISION Signed By <i>[Signature]</i> Approved by Environmental Specialist: | |
| Printed Name: Sheila Fisher | | |
| Title: Field Admin Support | Approval Date: <i>6/7/18</i> | Expiration Date: <i>N/A</i> |
| E-mail Address: Sheila.Fisher@dmn.com | Conditions of Approval: <i>See Attached</i> | |
| Date: 5/17/18 Phone: 575.748.1829 | Attached <input type="checkbox"/> <i>2RP-4793</i> | |

* Attach Additional Sheets If Necessary

6/7/18AB

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 5/29/2018 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 20P-4793 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 2 office in ARTESIA on or before 6/29/2018. 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

Tomb Raider 1-12 Fed 62H

7.73bbls oil & 152 MCF_5.15.18



This map is for illustrative purposes only and is neither a legally recorded map nor survey and is not intended to be used as one. Devon makes no warranty, representation, or guarantee of any kind regarding this map.

WGS_1984_Web_Mercator_Auxiliary_Sphere
Prepared by: Sheila Fisher
Map is current as of: 17-May-2018



Miles

0 0.02 0.04 0.07 1:3,557

S1, T23S, R31E

7.73bbls oil & 152 MCF

23S - 31E - 1
NWNW
L4

23S - 31E - 1
NWNW
L3

23S - 31E - 1
SWNW

23S - 31E - 1
SWNW

Bratcher, Mike, EMNRD

From: Fisher, Sheila <Sheila.Fisher@dvn.com>
Sent: Tuesday, May 29, 2018 4:27 PM
To: Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD; Shelly Tucker (stucker@blm.gov)
Cc: Shoemaker, Mike; Fulks, Brett; Lewis, Merle; West, Christopher; Coombes, Justin
Subject: Tomb Raider 1-12 Fed 62H_7.73bbbls oil & 152MCF release_5.15.18
Attachments: Tomb Raider 1-12 Fed 62H_7.73bbbls oil & 152MCF release_Initial C-141_5.15.18.doc;
Tomb Raider 1-12 Fed 62H_7.73bbbls oil & 152MCF release_GIS Image_5.15.18.pdf

Good Afternoon,

Attached please find the Initial C-141 and GIS Image for the 7.73bbbls oil & 152MCF release at the Tomb Raider 1-12 Fed 62H on 5.15.18.

If you have any questions please feel free to contact us.

Thank you,

Sheila Fisher
Field Admin Support
Production
B-Schedule

Devon Energy Corporation
PO Box 250
Artesia, NM 88211
575 748 1829 Direct



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Bratcher, Mike, EMNRD

From: Shoemaker, Mike <Mike.Shoemaker@dvn.com>
Sent: Wednesday, May 16, 2018 6:57 AM
To: Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD; Shelly Tucker (stucker@blm.gov)
Subject: Tomb Raider 1-12 Fed 62H (API #30-015-43889)

Good Morning,

Devon identified the following release at approximately 9:15 AM MST on 05/15/18.

1. Tomb Raider 1-12 Fed 62H (API #30-015-43889)
 - a. A contractor was taking samples this morning at the Tomb Raider 62H well head and their operator opened the sample point on the flowline and removed the 1" bull plug. Not realizing the valve was still open the pressure from the flowline started to vent to the atmosphere releasing approximately 152.4 mcf of gas and approximately 7.73 bbls of mixed fluid was released onto the location. Approximately 1 bbl was recovered.

The impacted area will be mapped to establish the horizontal extent of the impact. The impacted area will then be scrapped off and sampled in accordance with NMOCD Guidelines for Remediation of Leaks, Spills, and Releases and further remediation will be based on these sample results.

A C-141 will be prepared and submitted with GPS coordinates of the area affected.

Thanks,

Mike Shoemaker
EHS Representative

Devon Energy Corporation
6488 Seven Rivers Highway
Artesia, New Mexico 88210
575-746-5566 Office
575-513-5035 Mobile



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