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

NM OIL CONSERVATION
ARTESIA DISTRICT
AUG 03 2017
RECEIVED

Form C-141
Revised August 8, 2011
Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

nAB1721952285 6137 OPERATOR ☒ Initial Report ☐ Final Report

Name of Company Devon Energy Production Company	**Contact** Matt Nettles, Production Foreman
Address 6488 Seven Rivers Hwy Artesia, NM 88210	**Telephone No.** 575-513-5767
Facility Name Cotton Draw Unit 84	**Facility Type** Salt Water Disposal

Surface Owner Federal	**Mineral Owner** State	**API No** 30-015-29728

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	2	25S	31E	2615'	FSL	1160'	FEL	Eddy

Latitude: 32.1592751 **Longitude:** -103.7438736

NATURE OF RELEASE

Type of Release Produced Water	**Volume of Release** 65bbls	**Volume Recovered** 10bbls
Source of Release Frac tank on location	**Date and Hour of Occurrence** July 23, 2017 @ 11:30	**Date and Hour of Discovery** July 23, 2017 @ 11:30
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	**If YES, To Whom?** Shelly Tucker, BLM Mike Bratcher/Crystal Weaver, OCD	
By Whom? Ray Carter, Asst. Production Foreman	**Date and Hour** Shelly Tucker, BLM July 23, 2017 @11:45 AM Mike Bratcher/Crystal Weaver, OCD July 23, 2017 @ 6:42 PM	
Was a Watercourse Reached? ☐ Yes ☒ 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.*
The casing was blown down and didn't get shut off completely, causing the frac tank to run over on the location. The 2 inch ball valve was shut to prevent any further release.

Describe Area Affected and Cleanup Action Taken.*
Approximately 65bbls of produced water was released onto the Northwest corner of location. 0.5 bbls left the location and was release onto the adjacent pasture. A vacuum truck was dispatched and recovered approximately 10bbls of produced water. An environmental contractor will be contacted to assist with the delineation and remediation.

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: Sheila Fisher	OIL CONSERVATION DIVISION Signed By Mike Bratcher Approved by Environmental Specialist:	
Printed Name: Sheila Fisher		
Title: **Field Admin Support**	Approval Date: 8/4/17	Expiration Date: N/A
E-mail Address: **Sheila.fisher@dvn.com**	Conditions of Approval: See attached	Attached ☐
Date: Phone: **575.748.1829**		

2RP-4325

8/4/17 AB

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 8/3/2017 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 2RP-4335 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 9/3/2017. 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; 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

Bratcher, Mike, EMNRD

From:	Fisher, Sheila <Sheila.Fisher@dvn.com>
Sent:	Thursday, August 3, 2017 12:37 PM
To:	Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD; Shelly Tucker (stucker@blm.gov); Amber Groves (agroves@slo.state.nm.us)
Cc:	Nettles, Matt; Carter, Ray; Shoemaker, Mike; Fulks, Brett
Subject:	Cotton Draw Unit 84_65bbl pw_7.23.17
Attachments:	Cotton Draw Unit 84_65bbls pw_Inital C-141_7.23.17.doc; Cotton Draw Unit 84_65bbls pw_GIS Image_7.23.17.pdf

Good Afternoon,

Attached please find the Initial C-141 and GIS Image for the 65bbl produced water release at the Cotton Draw Unit 84 on 7.23.17.

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

Thank you,

Sheila Fisher
Field Admin Support
Production
B-Schedule

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

Cotton Draw Unit 84

65bbl pw_7.23.17

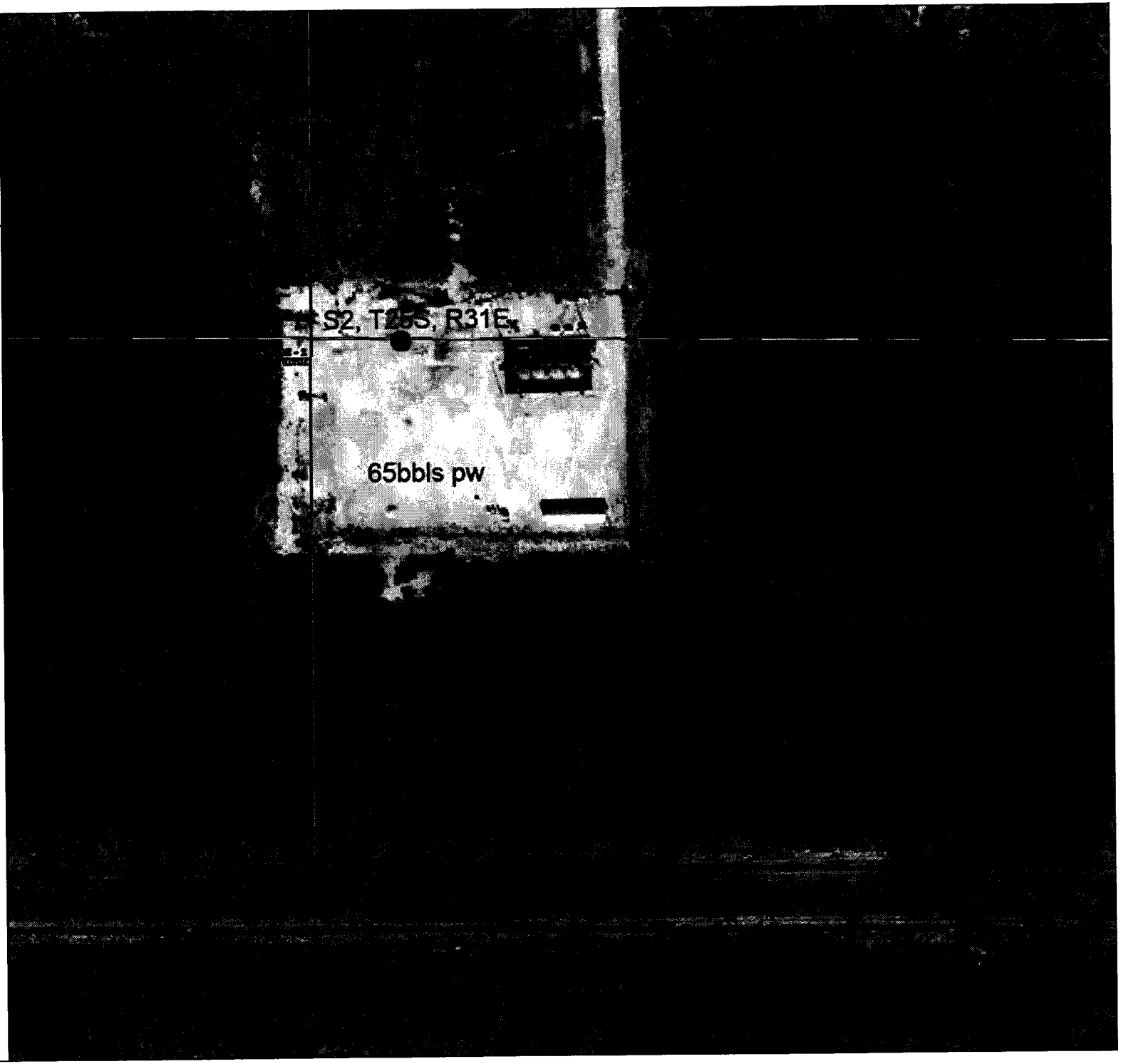
devon

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: 24-Jul-2017

N

Miles
0 0.01 0.02 0.04 1:1,779



Bratcher, Mike, EMNRD

From: Shoemaker, Mike <Mike.Shoemaker@dvn.com>
Sent: Sunday, July 23, 2017 6:42 PM
To: Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD
Cc: Fulks, Brett
Subject: Spill at the CDU 84 SWD

Mike and Crystal,
Just wanted to make you aware of a release from earlier today. The assistant foreman tried to leave a message around 11:50 am but was unsuccessful. Shelly Tucker with BLM was also notified at 11:45 a.m. We had a Frac tank that over ran at the CDU 84 SWD the spill was approximately 65 bbl of PW. The casing was blown down yesterday and didn't get shut off completely, causing the frac tank to run over on the location. About 1/2 bbl went outside fence, but stayed on the pad surface and no fluids were lost into the pasture. A vacuum truck was dispatched and approximately 10bbls of PW were recovered. A C-141 will be prepared and submitted.

Thanks,

Mike Shoemaker
EHS Representative

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

devon