

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

NOV 29 2017

Form C-141  
Revised August 8, 2011

RECEIVED to appropriate District Office in  
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

NAME: AB1738951999 OPERATOR ☒ Initial Report ☐ Final Report

Name of Company: Mewbourne Oil Company <u>14744</u>	Contact: Zack Thomas	
Address: PO Box 5270 Hobbs NM 88241	Telephone No. 575-393-5905	
Facility Name: Layla 27 SWD #1	Facility Type: SWD	
Surface Owner: Private	Mineral Owner: Fee	API No. 30-015-22638

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	27	23S	28E	1980'	North	990'	East	Eddy

Latitude 32.278038 Longitude -104.0698242

per OCD calculation

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: Estimated <u>160 bbls</u>	Volume Recovered: PW (150 bbls)
Source of Release: Water tank	Date and Hour of Occurrence 11-25-17	Date and Hour of Discovery 11-25-17 8:00 am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher	
By Whom? Zack Thomas	Date and Hour 11-27-17 5:00 pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.* Loss of power caused injection pumps to shut down. High tank alarm was not sent causing tanks to overflow.		
Describe Area Affected and Cleanup Action Taken.* Affected area- Well pad surface, lease road, and a 60'x20' area of the pasture East of Chevrons tank battery. Vacuum trucks were used to recover 150 bbls of produced water. Final remediation will be conducted in accordance with the NMOCD's Guidelines for Remediation of Spills, Leaks and Releases.		
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: <u>Z. Thomas</u>		OIL CONSERVATION DIVISION	
Printed Name: Zack Thomas		Approved by Environmental Specialist: <u>[Signature]</u>	
Title: Environmental Rep.		Approval Date: <u>12/4/17</u>	Expiration Date: <u>NIA</u>
E-mail Address: zthomas@mewbourne.com		Conditions of Approval: <u>see attached</u>	
Date: 11-28-17		Attached: <input checked="" type="checkbox"/> <u>2RP-4507</u>	
Phone: 575-602-2188			

Operator/Responsible Party,

The OCD has received the form C-141 you provided on **11/29/17** regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 2RP-4507 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 12/29/17. 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

## Weaver, Crystal, EMNRD

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**From:** Weaver, Crystal, EMNRD  
**Sent:** Wednesday, November 29, 2017 9:12 AM  
**To:** 'Zack Thomas'; Bratcher, Mike, EMNRD  
**Subject:** RE: Layla 27 SWD #1

Zack,

It is noted that on the Initial C-141 submitted that the total volume of the production fluids released (even though it says estimate) matches the total volume of the production fluids recovered. A circumstance where that might make sense would be something like if a spill was released into lined secondary containment that had no breaches or leaks. However, for an instance such as this where the spill made it onto the well pad, lease road and pasture, OCD finds it difficult to accept and process a C-141 that states almost total volume recovery without any saturation. Please revise the Initial C-141 with volumes that better correlate to what occurred on this incident.

Thank you,

### Crystal Weaver

Environmental Specialist  
OCD – Artesia District II  
811 S. 1<sup>st</sup> Street  
Artesia, NM 88210  
Office: 575-748-1283 ext. 101  
Cell: 575-840-5963  
Fax: 575-748-9720

**From:** Zack Thomas [mailto:zthomas@mewbourne.com]  
**Sent:** Wednesday, November 29, 2017 7:18 AM  
**To:** Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Weaver, Crystal, EMNRD <Crystal.Weaver@state.nm.us>  
**Subject:** Layla 27 SWD #1

I called the and left a messege about this release. Attached is the C141.



**Zack Thomas**  
Environmental Rep.  
Mewbourne Oil Company  
PO Box 5270  
Hobbs, NM 88241 US

## **Weaver, Crystal, EMNRD**

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**From:** Weaver, Crystal, EMNRD  
**Sent:** Thursday, November 30, 2017 8:56 AM  
**To:** 'Zack Thomas'  
**Cc:** Bratcher, Mike, EMNRD  
**Subject:** RE: pab1609148979\_08\_04\_2016\_01\_21\_41.pdf

Hello Zack,

No as I mentioned I took care of it. We will just use that info till the full delineation gives us any further information.

Thanks,

Crystal Weaver  
Environmental Specialist  
OCD – Artesia District II  
811 S. 1st Street  
Artesia, NM 88210  
Office: 575-748-1283 ext. 101  
Cell: 575-840-5963  
Fax: 575-748-9720

-----Original Message-----

From: Zack Thomas [mailto:zthomas@mewbourne.com]  
Sent: Thursday, November 30, 2017 8:38 AM  
To: Weaver, Crystal, EMNRD <Crystal.Weaver@state.nm.us>  
Cc: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>  
Subject: RE: pab1609148979\_08\_04\_2016\_01\_21\_41.pdf

Crystal,

Ok, so do you want me to edit the C141 and send you an updated copy?

Zack Thomas  
Environmental Rep.  
Mewbourne Oil Company  
PO Box 5270  
Hobbs, NM 88241 US

Phone: (575) 393-5905 | Fax: (575) 397-6252  
(575) 602-2188  
Email: zthomas@Mewbourne.com

-----Original Message-----

From: Weaver, Crystal, EMNRD [mailto:Crystal.Weaver@state.nm.us]  
Sent: Wednesday, November 29, 2017 4:56 PM  
To: Zack Thomas  
Cc: Bratcher, Mike, EMNRD  
Subject: Re: pab1609148979\_08\_04\_2016\_01\_21\_41.pdf

Following this form with further assessment via a proper delineation of the release will give us a better idea of impact and penetration.

Thanks in advance.

Crystal Weaver  
Environmental Specialist  
OCD - Artesia District 2  
811 S. 1st Street  
Artesia, NM 88210  
Office: 575-748-1238 ext. 101  
Cell: 575-840-5963  
Fax: 575-748-9720

> On Nov 29, 2017, at 4:35 PM, Weaver, Crystal, EMNRD <Crystal.Weaver@state.nm.us> wrote:

>

> Zack,

>

> OCD used a spill volume estimating tool to do a calculation for saturation of soil/penetration for production fluid volume lost on this release and upon reviewing the conclusive results of the calculation OCD has decided to make a conservative change on the C-141 Initial form to release volume of 160bbbls lost and we will leave what you have written as the 150bbbls recovered. Leaving a net remaining volume for remediation of approximately 10bbbls. I haven't finished attaching the COAs to the form yet but I did still want to send you a copy of the changes I made to the form, so please see attached.

>

> Thank you,

>

>

>

> Crystal Weaver  
> Environmental Specialist  
> OCD – Artesia District II  
> 811 S. 1st Street  
> Artesia, NM 88210  
> Office: 575-748-1283 ext. 101  
> Cell: 575-840-5963  
> Fax: 575-748-9720

>

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> -----Original Message-----

> From: Zack Thomas [mailto:zthomas@mewbourne.com]  
> Sent: Wednesday, November 29, 2017 1:55 PM  
> To: Weaver, Crystal, EMNRD <Crystal.Weaver@state.nm.us>  
> Subject: pab1609148979\_08\_04\_2016\_01\_21\_41.pdf  
>  
> Crystal,  
>  
> This is one of many I've submitted and got approved. The number of barrels released is just an estimate. We know that we released a little more than that but we dont know by how much.  
>  
> <Scanned from a Xerox Multifunction Printer.pdf>