Not received then. State of New Mexico

District 1 1625 N. French Dr., Hobbs, NM 88240 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztee, NM 87410 District IV 1220 S. St. Francis Dr. Santa Fe. NM 87505

Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. received on 3/8/18

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

| Santa Fe, NM 87505 | | | | | | | | | | | | |
|---|-----------------------|--|---|------------------|---|--|--|-------------------|------------------------------------|---|----------|--|
| Release Notification and Corrective Action | | | | | | | | | | | | |
| NAB1806827959 | | | | | | OPERAT | | | ☐ Initial Report ☐ Final Report | | | |
| Name of Company: Legacy Reserves Operating, LP 44047 Address: 303 W. Wall Street, Suite 1300 Midland, TX 79701 | | | | | | Contact: Brian Cunningham Telephone No. 432-234-9450 | | | | | | |
| Facility: Coyote | | | 1300 M | idiand, IA 797 | | Facility Type: Battery Tank Battery | | | | | | |
| Surface Owner: State Mineral Owner | | | | | | | | | API No. 30-015-32419 | | | |
| b | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | *************************************** | | *************************************** | *************************************** | EACE | | | | | |
| Unit Letter Se | ection | Township | Range | Feet from the | ***** | N OF REI South Line | Feet from the | Past/West Lin | County | | 1. | |
| | 368 | 178 | 31E | | | oouth isine | recenom me | TAGU WEST DAIL | Eddy Co | unty | | |
| 32.7920217 Latitude 32° 47' 29.67" | | | | | | Longitude | 103° 49° 35.6 ° | 722 - \ | -103.9263016 | | | |
| NATURE OF RELEASE | | | | | | | | | | | | |
| Type of Release Produced Water | | | | | | Volume of 6 -7 bbl | ······································ | Volum 0 bbt | olume Recovered | | | |
| Source of Release unknown | | | | | | Date and I | lour of Occurrenc | æ Date a | Date and Hour of Discovery unknown | | | |
| Was Immediate Notice Given? | | | | | | If YES, To Whom? | | | | | | |
| | Yes X No Not Required | | | | | | N/A | | | | | |
| By Whom? N/A Was a Watercourse Reached? | | | | | | Date and Hour N/A | | | | | | |
| was a watercourse Reached? | | | | | | If YES, Volume Impacting the Watercourse. N/A | | | | | | |
| If a Watercourse was Impacted, Describe Fully.* | | | | | | | | | | | | |
| Not applicable. | | | | | | | | | | | | |
| | | | | | | | | | | | } | |
| Describe Cause of Problem and Remedial Action Taken.* | | | | | | | | | | | | |
| Approximately 6 to 7 bbl of produced water were released and pooled in the pasture to the southwest of the battery. No bbt were recovered. An area in the pasture measuring approximately 12,500 square feet to the southwest of the Coyote #1 Battery showed distressed vegetation as well as standing salt on the surface. | | | | | | | | | | | | |
| Describe Area Affected and Cleanup Action Taken.* Larson & Associates, Inc., will prepare a plan to define the spill for OCD approval. a defienation report with remediation plan will be submitted to the OCD for approval prior to remediation of the spill. The State of New Mexico State Land Office, as land owner, will be included or the submission to the OCD. | | | | | | | | | | | | |
| I hereby certify the | that the in | nformation gi | ven above | is true and comp | lete to tl | ie best of my | knowledge and u | inderstand that p | ursuant to N | MOCD r | ules and | |
| 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 appearance of a C. 141 pages by the NMOCD model or "Eight Beautiff" days not reliable to appearance of a C. 141 pages by the NMOCD model or "Eight Beautiff" days not reliable to appearance of a C. 141 pages by the NMOCD model or "Eight Beautiff" days not reliable to the appearance of a C. 141 pages by the NMOCD model or "Eight Beautiff" days not reliable to the appearance of a C. 141 pages by the NMOCD model or "Eight Beautiff" days not reliable to the appearance of a C. 141 pages by the NMOCD model or "Eight Beautiff" days not reliable to the appearance of a C. 141 pages by the NMOCD model or "Eight Beautiff" days not reliable to the appearance of a C. 141 pages by the NMOCD model or "Eight Beautiff" days not reliable to the appearance of a C. 141 pages by the NMOCD model or "Eight Beautiff" days not reliable to the appearance of a C. 141 pages by the NMOCD model or "Eight Beautiff" days not reliable to the appearance of a C. 141 pages by the NMOCD model or "Eight Beautiff" days not reliable to the appearance of a C. 141 pages by the NMOCD model or "Eight Beautiff" days not reliable to the appearance of a C. 141 pages by the NMOCD model or "Eight Beautiff" days not reliable to the appearance of a C. 141 pages by the NMOCD model or "Eight Beautiff" days not reliable to the appearance of a C. 141 pages by the NMOCD model or "Eight Beautiff" days not reliable to the appearance of a C. 141 page of | | | | | | | | | | | | |
| 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. OIL CONSERVATION DIVISION | | | | | | | | | | | | |
| B - /' - / | | | | | | | | | | | | |
| Printed Name: Brian Cynnias ham | | | | | | Approved by Environmental Specialist: | | | | | | |
| Tille: Production Forman | | | | | | Approval Da | le: | Expirati | on Date: | *************************************** | | |
| E-mail Address: | ninshan | ne lea | ay 1 nom | | Conditions of Approval: | | | | | | | |
| Date: 12/20/17 Phone: 432-234-9450 | | | | | | COO OSTAL CAN MIRCHER TON WATER | | | | | | |
| Attach Additional Sheets If Necessary Please reform | | | | | | | | | | | | |

ase refer to the New Mexico Oil Conservation Division Website for updated form(s) at:

http://www.emnrd.state.nm.us/ OCD/ forms.html Thank you Operator/Responsible Party,

The OCD has received the form C-141 you provided on 3/8/18 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 3/1/15 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 4/8/18. 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; 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

Weaver, Crystal, EMNRD

From:

Weaver, Crystal, EMNRD

Sent:

Thursday, March 8, 2018 1:56 PM

To:

Yu, Olivia, EMNRD; Bratcher, Mike, EMNRD

Cc:

'Sarah Johnson'; Mark Larson; bcunningham@legacylp.com

Subject:

RE: Legacy Reserves, L.P., 2RP-4490 Antelope Battery & Coyote #1 C-141

Hello all,

Thank you Olivia.

Sarah, I responded to your delineation plan for the Antelope battery (case number 2RP-4490) already prior to receiving this forwarded email from Olivia. However, I checked my records/emails for a C-141 submission for Legacy's Coyote #1 Battery and I don't have anything. I also checked further to see if maybe my email is just messing up by looking in our database to see if one was received, meaning I checked the admin entry records as well, and I don't show anything regarding a release occurring at the Coyote location was processed around Jan 2018 by out administrative folks here in our office either. I literally don't have it.

Olivia is not needing to be involved on this one if the release occurred in Eddy county and she forwarded me the attachments you sent her from your email you sent her yesterday. So now I have the Initial C-141 for Coyote #1 Battery. I will get it processed.

Thank you and sorry for the confusion,

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

From: Yu, Olivia, EMNRD

Sent: Thursday, March 8, 2018 11:15 AM

To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Weaver, Crystal, EMNRD <Crystal.Weaver@state.nm.us>

Subject: FW: Legacy Reserves, L.P., 2RP-4490 Antelope Battery & Coyote #1 C-141

Good morning Mike & Crystal:

FYI, if you did not receive an equivalent email. I told them that I do not need to be in communication for this one.

Olivia

From: Sarah Johnson [mailto:SJohnson@laenvironmental.com]

Sent: Wednesday, March 7, 2018 2:26 PM **To:** Yu, Olivia, EMNRD < Olivia. Yu@state.nm.us>

Cc: Mark Larson < Mark@laenvironmental.com >; bcunningham@legacylp.com Subject: Legacy Reserves, L.P., 2RP-4490 Antelope Battery & Coyote #1 C-141

Dear Ms. Yu,

Larson & Associates, Inc. on behalf of the Legacy Reserves, LP. (Legacy) would like to request an update on the Coyote #1 Battery and the Antelope Battery (2RP-4490), in Eddy County, New Mexico. The initial C-141 for the Coyote #1 Battery was submitted to Crystal Weaver in District 2 on January 3, 2018 and submitted to District 1 on January 10, 2018. The delineation plan for the Antelope Battery was submitted to District 2 on December 15, 2018. Please see attached both documents for your review. Please feel free to contact me at (432) 687-0901 or (432) 664-5357 (cell) if you have any questions.

Respectfully,

Sarah Johnson
Staff Geologist
507 N. Marienfeld St., Suite 205
Midland, Texas 79701
Office – 432-687-0901
Cell – 432-664-5357
Fax – 432-687-0456
sjohnson@laenvironmental.com

