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 Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NRM2010059368
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Catena Resources Operating, LLC	OGRID: 328449
Contact Name: Anthony Riggan, P.E.	Contact Telephone: 210-428-6144
Contact email: ariggan@catenares.com	Incident # *(assigned by OCD)*
Contact mailing address: 18402 Hwy 281, Suite 258, San Antonio, TX 78259	

Location of Release Source

Latitude 32.72116 Longitude -103.43916
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: South Vacuum #275	Site Type: Oil Well
Date Release Discovered: 03/30/2020	API# *(if applicable)* 30-025-37299

Unit Letter	Section	Township	Range	County
H	27	18S	35E	Lea

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 32.41 bbls	Volume Recovered (bbls) 10 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release:

Release is believed to be result of outside, unauthorized party equalizing an in-service tank with an out-of-service water tank onsite. The out-of-service tank had previously had all of its manways removed, so when the produced water was illegally transferred to this tank, the produced water was automatically released from an open manway.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	NRM2010059368
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? > 25 bbls

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

A New Mexico State Land Office rep (Ryan Mann) discovered the release. Brandon Boone of the SLO called Mike Bratcher on Monday, March 30 to report the release and both entities spoke with Catena Resource reps at that time.

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.

Printed Name: Anthony Riggan, P.E. Title: VP of Production Operations

Signature: Date: 4-8-2020

email: ariggan@catenares.com Telephone: 210-428-6144

OCD Only

Received by: Ramona Marcus Date: 4/9/2020

Release Volume Estimation Equation

Equation (1) Inputs	(LxW)/43560sqft	Equation (1) Assumptions
		1acre =43560 sqft

Area [ ] Length (ft) [ ] Width (ft) 0.3000 Acres

Equation (2) Inputs	Ksat*27,154gal/(42gal)	Equation (2) Assumptions
		1acre/inch =27,154 gal
		1bbl = 42gal

Ksat 0.668438 in Inches per hour located at https://websoilsurvey.nrcs.usda.gov

432.16 BBL/Acre/hr

Equation (3)	(Eq2)X(Eq1) Area adjusted volume

129.65 BBl/hr max

Equation (4) Inputs	(Eq3)X release duration (hours)+recovered volume	Equation (4) Assumptions
		recovered fluids are not
		in soil solution

[ ] BBL

0.25 Duration (hr)

32.41 BBL

[1] infiltratration rate. The rate at which water penetrates the surface of the soil at any given instant, usually expressed in inches per hour. The rate can be limited by the infiltration capacity of the soil or the rate at which water is applied at the surface: (National Soil Survey Handobook (USDA)

[2] (Ksat) Hydraulic Conductivity. (National Soil Survey Handobook (USDA) conductivity is often referred to as coefficient of permeability, most commonly shortened to permeability