

# State of Colorado Oil and Gas Conservation Commission

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Document Number:

401530860

Date Received:

01/31/2018

Spill report taken by:

Kosola, Jason

Spill/Release Point ID:

453631

## SPILL/RELEASE REPORT (SUPPLEMENTAL)

This form is to be submitted by the party responsible for the oil and gas spill or release. Refer to COGCC Rule 906.b. for reporting requirements of spills or releases of E&P Waste or produced fluids. Submit a Site Investigation and Remediation Workplan (Form 27) when requested by the Director.

### OPERATOR INFORMATION

Name of Operator: <u>PIONEER NATURAL RESOURCES USA INC</u>	Operator No: <u>10084</u>	<b>Phone Numbers</b>
Address: <u>5205 N O'CONNOR BLVD STE 200</u>		Phone: <u>(719) 846-7898</u>
City: <u>IRVING</u>	State: <u>TX</u>	Zip: <u>75039</u>
Contact Person: <u>Cherylyn Morgan</u>		Mobile: <u>( )</u>
		Email: <u>cherylyn.morgan@pxd.com</u>

### INITIAL SPILL/RELEASE REPORT

Initial Spill/Release Report Doc# 401501578

Initial Report Date: 01/03/2018 Date of Discovery: 01/02/2018 Spill Type: Recent Spill

#### Spill/Release Point Location:

Location of Spill/Release: QTRQTR SESW SEC 23 TWP 33S RNG 67W MERIDIAN 6Latitude: 37.150800 Longitude: -104.859450Municipality (if within municipal boundaries): \_\_\_\_\_ County: LAS ANIMAS

#### Reference Location:

Facility Type: TANK BATTERY☐ Facility/Location ID No \_\_\_\_\_☐ No Existing Facility or Location ID No.☒ Well API No. (Only if the reference facility is well) 05-071-07690

#### Fluid(s) Spilled/Released (please answer Yes/No):

Was one (1) barrel or more spilled outside of berms or secondary containment? Yes

*Secondary containment, including walls & floor regardless of construction material, must be sufficiently impervious to contain any discharge from primary containment until cleanup occurs.*

Were Five (5) barrels or more spilled? Yes

Estimated Total Spill Volume: use same ranges as others for values

Estimated Oil Spill Volume(bbl): >=100Estimated Condensate Spill Volume(bbl): 0Estimated Flow Back Fluid Spill Volume(bbl): 0Estimated Produced Water Spill Volume(bbl): >=100Estimated Other E&P Waste Spill Volume(bbl): 0Estimated Drilling Fluid Spill Volume(bbl): 0

Specify: \_\_\_\_\_

#### Land Use:

Current Land Use: NON-CROP LAND

Other(Specify): \_\_\_\_\_

Weather Condition: At Zero temps freezing conditionsSurface Owner: FEE

Other(Specify): \_\_\_\_\_

#### Check if impacted or threatened by spill/Release (please answer Yes/No to all that apply):

Waters of the State ☒ Residence/Occupied Structure ☐ Livestock ☐ Public Byway ☐ Surface Water Supply Area ☐

As defined in COGCC 100-Series Rules

Describe what is known about the spill/release event (what happened -- including how it was stopped, contained, and recovered):

We had a spill that found yesterday 1/2/2018 on the Weston Disposal 23-24 (API #05-071-07690) well site. It appears that the Tanks at the disposal well overflowed thus overflowing the overflow pit. The spill did enter live water just below the site in an un-named tributary of Wet Canyon, continuing into Wet Canyon running toward the Purgatorie river where we believe it too have ended at this time. There was a small amount of oil found in the spill. Notifications have been made to the COGCC, CDPHE and the NRC. It is estimated at this time that 500bbls of produced water were spilled along with an estimated 120 gallons of oil with the water was also spilled. The spill was isolated and Boom placed in the water way in several places with, a clean-up crew is on site and clean-up efforts are in progress.

**List Agencies and Other Parties Notified:**

**OTHER NOTIFICATIONS**

<u>Date</u>	<u>Agency/Party</u>	<u>Contact</u>	<u>Phone</u>	<u>Response</u>
1/2/2018	COGCC	Jason Kosola	-	Phone
1/2/2018	CDPHE	Ann Nedrow	-	Spill Hotline
1/5/2018	NRC	Kevin William	-	1-800-424-8802
1/2/2018	Land owner	Pioneer Nat Res	-	owner operator
1/2/2018	Land owner	Bernard Parson	-	phone
1/2/2018	Land owner	Mike Powell/Ranch Foreman	-	phone
1/2/2018	Land owner	Steve Robinson	-	phone

**CORRECTIVE ACTIONS**

#1

Supplemental Report Date: 01/31/2018

Cause of Spill (Check all that apply)

☐ Human Error
☒ Equipment Failure
☐ Historical-Unknown

☐ Other (specify)

Describe Incident & Root Cause (include specific equipment and point of failure)

On the Weston disposal well pad there are six 1,000bbls tanks and 1 over flow pit with the capacity of holding 3,000bbls. On December 29th @3:26pm the Weston 24-23 WD sent out an alarm reading 89.77ft which was a defective alarm with the tanks only being 30ft tall. A lease operator was dispatched to verify that the tanks were not overflowing & verified the tanks were at 6ft and the alarm was false. On December 31th @ 12:52am the Weston 24-23WD started sending out alarms again at 89.77ft. It sent out a total of 6 alarms. An electrician was sent out to location to look over alarms and verify tank levels. Tanks were again at 6ft. The electrician replaced bad fuse and sensors were reading correctly. Later the fuse shorted out and put the pump into recirculation mode and shut the valve going to the injection well causing the tanks to start to fill. After the fuse shorted it did not send out any high level alarms. The Weston 24-23WD normally disposes an average of 4,000bbls per 24hr period. At 6ft that would be 199.8bbls in each tank 1,198bbls total in all six tanks. With 4,000bbls going into the tanks & not being disposed this would fill the tanks 20ft bringing the tanks to 26ft in a 24hr period with the 6ft that was already in the tanks. The tanks overflow at 29ft. this would give us 599.4 bbls & about 3.5hrs more before they start to overflow into overflow pit. With overflow pit being capable of holding 3,000bbls it would take an additional 18hrs. to fill before it overflowed. On January 2nd @8:30am the lease operator arrived at the Weston disposal & discovered the overflow pit had ran over. He isolated the tanks & opened the injection well & called for water truck & reported the spill. With the time line that was available we calculated 500bbls of produced water with sheen. Investigation found that a new drip truck driver that was not properly informed had pulled 1120 gallons of seal fluid from wellhead compression and unloaded the truck into the Weston WD tanks.

Describe measures taken to prevent the problem(s) from reoccurring:

Redundant sensors: o There is a capability to install a secondary high level sensor and wire it into the PLC in a configuration that would allow it to switch to a secondary circuit in the event of a failure on one or the other. Installation of a pit monitor for the secondary pit. This will put in place another system which can alarm in the event of an overflow. Training of multiple techs on the operation, electronics and sensing systems of the automated WD. This will ensure timely and better troubleshooting. Production foremen informed all water truck drivers of the proper locations and protocols for oily water. A quarterly meeting with the water truck drivers will take place as a reminder. Water truck companies are asked to inform production foremen of personnel changes so that communications can be made with new or new-to-job drivers for proper locations and protocols. o Increase the amount and type of labeling on the process valves, fuses (what amperage, etc.), flow, etc. This will allow personnel to visually see what each component does and specific instructions for various situations. o There is a schematic diagram inside the injection pump building, a better "user-friendly" version will be made and installed inside the building in a prominent place. This will allow personnel to see how the operation works and have a ready reference as needed. o There is an existing Standard Operating Procedure in place for the Weston 24-23 WD and the San Pablo WD. Install locks on all lines capable of dumping into with serialized keys. Only given out to the 5 water truck drivers and 2 lease operators.

Volume of Soil Excavated (cubic yards):

Disposition of Excavated Soil (attach documentation)

☐ Offsite Disposal
☐ Onsite Treatment
☐ Other (specify)

Volume of Impacted Ground Water Removed (bbls):

Volume of Impacted Surface Water Removed (bbls):

REQUEST FOR CLOSURE

Spill/Release Reports should be closed when impacts have been remediated or when further investigation and corrective actions will take place under an approved Form 27.

Basis for Closure:

☐ Corrective Actions Completed (documentation attached)
☐ Work proceeding under an approved Form 27

Form 27 Remediation Project No:

OPERATOR COMMENTS:

Per your request a second supplemental is being submitted with a full root cause analysis with corrective actions.

I hereby certify all statements made in this form are to the best of my knowledge true, correct, and complete.

Signed:

Print Name: Cherylyn Morgan

Title: Environmental Technician

Date: 01/31/2018

Email: cherylyn.morgan@pxd.com

COA Type	Description

**Attachment Check List**

**Att Doc Num**      **Name**

401530861	OTHER
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Total Attach: 1 Files

**General Comments**

**User Group**      **Comment**      **Comment Date**

		Stamp Upon Approval
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Total: 0 comment(s)