

Oil Field Environmental Incident Summary

Incident: 20140411215354 **Date/Time of Notice:** 04/11/2014 21:53

Responsible Party: CONTINENTAL RESOURCES, INC.

Well Operator: CONTINENTAL RESOURCES, INC.

Well Name: OCONNELL 1

Field Name: TRACY MOUNTAIN

Well File #: 13353

Date Incident: 4/11/2014 **Time Incident:** 10:00

Facility ID Number:

County: BILLINGS

Twp: 138

Rng: 101

Sec: 9

Qtr:

Location Description:

Submitted By: Todd Senescall

Received By:

Contact Person: Todd Senescall
PO BOX 268870
OKLAHOMA CITY, OK 73126

General Land Use: Badlands Terrain

Affected Medium: Soil and Water

Distance Nearest Occupied Building:

Distance Nearest Water Well:

Type of Incident: Pipeline Leak

Release Contained in Dike: No

Reported to NRC: No

	Spilled	Units	Recovered	Units	Followup	Units
Oil						
Brine	560	Barrels	100	Barrels	200	barrels
Other						

Description of Other Released Contaminant:

Inspected:

Written Report Received: 12/7/2016

Clean Up Concluded: 11/4/2014

Risk Evaluation:

none

Areal Extent:

Potential Environmental Impacts:

soil, vegetation, water

Action Taken or Planned:

line was shut in, berms built on location and in the drainage to prevent further release, standing liquid sucked up, water samples were obtained for analyses, Rick Hutchens (NDIC) and Kris Roberts (NDDH) were notified. Contaminated soil on location will be recovered after buried line locates. Further offsite remediation is dependent upon field soil screening and subsequent landowner approval of plans.

Wastes Disposal Location: liquid - SWD
soil-TBD

Agencies Involved: NDDH

Updates

Date: 4/11/2014 **Status:** Correspondence

Author: Roberts, Kris

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

Received call from CRI Environmental contact at approx. 17:00 on 4/11/14. Reported an approx. 500-bbl release of production water used for secondary recovery injection in southern Billings County. According to the rep, the release had flowed off location, down a dry drainage, and intersected a flowing drainage before CRI was able to get a containment dike across the dry drainage (now in place). Rep asked for advice on what to do about the production water (estimated 70K+ mg/L Cl) that had already mixed with the water in the flowing drainage. Asked if he could get ahead of the anticipated slug of water and sample, but he was unsure. Settled with taking samples below the containment in the flowing drainage and as far downstream as he could. Attempted to contact NDDoH inspector in that area but was not successful. Travel time from NE of Williston area and search for discarded filter sock near Theodore Roosevelt National Park, North Unit entrance, did not allow me to get into area before darkness fell. Will plan on visiting site afternoon of 4/12/14.

Date: 4/12/2014 **Status:** Inspection

Author: Roberts, Kris

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

4/12/14 - 15:30 on location. Met company rep and environmental samplers. Photos with embedded GPS. Pipeline leak was on a high-pressure, tertiary recovery water injection line on the Oconnell 1 location. Company hands discovered the release on the morning of 4/11. Gauging and sensors indicate the leak had started approximately 12 hours earlier, and metering indicates that approximately 560 bbls of injection water has been released. This water is production water from other producing wells, with some chemical addition for scale/corrosion inhibition. Company will provide a list of chemicals added and the concentrations.

According to the company representative, approximately 50-60 bbls of the brine was recovered on location, and approximately another 40 bbls were recovered off location. The balance of the liquid has been lost by soil absorption and mixing with fresh water in an intersecting drainage that is flowing with spring and melt water. Soil and water samples have been taken by the company for field screening and chemical analysis. Three water samples were collected this date by NDDoH: one of source water at the pump house, one in the drainage at the lease road crossing the drainage, and one in the pasture of the landowner's ranch.

Due to a number of underground lines in the area, the leak location cannot be excavated until locates have been completed.

The off-location terrain is badlands with deep, steep, highly eroded ravines. An evaluation of the impact is underway, and restoration methods are being explored. There is no pooling in the ravine at or upstream of the landowner's ranch, so there has been no location to contain/capture the brine released into the flowing drainage in the area so far investigated. A further investigation and restoration plan will be sent to the department as quickly as possible. Further analysis of the drainage via available air photos will be conducted as part of the investigation.

Further inspections will be required at this incident site.

Date: 6/24/2014 **Status:** Correspondence

Author: Roberts, Kris

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

6/24/2014 - 16:00 approximately. Conference call between Roberts and two CRI environmental contacts. Company contact had not sent the cleanup/restoration plan as promised. Supervisor took responsibility, indicating he wanted to have all information (including all analytical results) before they submitted anything.

Company supervisor agreed to email the additives in the production water used for enhanced recovery injection. Received that at 17:13 same date.

Earlier in the afternoon, Roberts spoke with State Veterinarian regarding a query they received regarding this pipeline leak event and that rancher downstream of that location had lost several new calves and cows were showing a possible impact. Rancher has stated that the CRI has not been in communication with him as to the content of the injection water.

CRI has, however, removed a barrel of "Water Soluable Water Treatment (WT1902C)" from a nearby site at the request of the rancher, transmitted through Roberts. According to the rancher, this barrel had been sitting outside this other facility site for over 12 months.

Date: 12/31/2015 **Status:** No Further Action Requested

Author: Souder, Taylor

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

No further followup required.

Date: 3/11/2016 **Status:** Correspondence

Author: Suess, Bill

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

Bill Suess sent a No Further Action letter dated March 11, 2016.