

Oil Field Environmental Incident Summary

Incident: 20130804194934 **Date/Time of Notice:** 08/04/2013 19:39

Responsible Party: Big Sky Well Services

Well Operator: CONTINENTAL RESOURCES, INC.

Well Name: SKURUPEY 1-9H

Field Name: ST. DEMETRIUS

Well File #: 21859

Date Incident: 8/3/2013 **Time Incident:** 22:00

Facility ID Number:

County: BILLINGS

Twp: 142

Rng: 98

Sec: 9

Qtr:

Location Description: Some liquid off location to the north-west, misting off location in all directions

Submitted By: Stacy Aguirre

Received By:

Contact Person: Stacy Aguirre
PO BOX 268870
OKLAHOMA CITY, OK 73126

General Land Use: Cultivated

Affected Medium: Topsoil

Distance Nearest Occupied Building: 1 Miles

Distance Nearest Water Well: 1 Miles

Type of Incident: Blowout

Release Contained in Dike: No

Reported to NRC: No

	Spilled	Units	Recovered	Units	Followup	Units
Oil	0	barrels	0	barrels	100	barrels
Brine	0	barrels	0	barrels	4025	barrels
Other	0	barrels	0	barrels		

Description of Other Released Contaminant:

Inspected:

Written Report Received: 9/24/2013

Clean Up Concluded: 9/5/2013

Risk Evaluation:

Areal Extent:

will be determined

Potential Environmental Impacts:

crop and soil

Action Taken or Planned:

Preliminary actions: Liquid on location is being contained by temporary berms, liquid is being sucked up as safe to do so

Wastes Disposal Location:

Agencies Involved: Local Law Enforcement, NDDH

Updates

Date: 8/4/2013 **Status:** Reviewed - Follow-up Required

Author: Roberts, Kris

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

At approximately 12:05 today (Sunday, August 04, 2013) I received a call on 527-1831 from Mary Tello-Pool regarding a well blowout somewhere in Billings County. The only information Mary had was a contact, Billings County Deputy John Tczap at 701-260-4131. The contact that gave her this information was Haley at State Radio.

I tried calling Deputy Tczap, but was directed immediately to voice mail. Since the blowout location was not given, I guessed that it might be in the badlands, and Deputy Tczap could be out of tower range, so I called State Radio, got Haley, learned that she had radio contact with Deputy Tczap, and asked to her to contact him and have him call me. He did at 12:20. He related that:

The well blew out while undergoing workover by Big Sky Well Services

Incident time 23:00 on Saturday, August 3, 2013

One worker was injured and transported locally,t

The well is the Continental Resources, Skrupey 1-9H

It is blowing oil and brine

It is not under control, and may not be for 2 days plus

Location is 3.5 miles east of Fairfield, in Billings County at 123 Ave SW and 19th Street

Approximate GPS location is 47deg07min31.5720secN, -103deg07min06.5977secW

Deputy's location was 47deg07min32.898secN, -103deg05min48.414secW

Security being maintained approximately ½ mile west of the site

Wind is fairly calm from the south

Nearest residence approximately ½ mile distant (appears to be 1 mile N according to DoH GIS system)

Emergency Contact for Continental Resources is Bobby Lax – 405-761-5020.

Approximately 13:00 this date, I received a call from Stacy Aguirre, of Continental on my department cell phone. She had attempted to send a text message approximately 01:30 MDT, but my phone would not download it, and I didn't recognize the number.

Stacy related most the same information as above, adding to location as T148N,R98W,Sec9.

Light breezes is from the south

Oil and brine mist is going north toward, but they do not think it has reached Horse Creek (213 yards to the N-NW) at this time. It has, though, reached a small slough/depression, and a heavily vegetated area.

Well is not under control, and may not be for 2+ days.
CRI has mobilized dirt contractor to build berms if safe.
No vegetation removal contemplated until after well control.
She and another were then starting an area walk to try and determine extent.

I arrived at DoH office at 13:15 and opened GIS system to locate incident area. Distance above derived there. And began this notification after printing out maps of area (Dave and Dennis, one set is on each of your desks).

At approximately 14:39, received text from Dave Hvinden to make sure I am aware of the incident. He stated that Nicole Nelson is on location now, but not expected to stay overnight unless need arises. I explained in follow-up call my activities and plans. I am deploying this afternoon.

Date: 8/5/2013 **Status:** Inspection

Author: Roberts, Kris

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

8/5/13 - 15:04 MDT - Skurupey 1-9H well brought under control. Outflow stopped. Second off location walking inspection with Adam Miller (DoH), Todd, Justin (CRI). With dew dried off, able to see salt crystallization on alfalfa leaves and grasses. Some alfalfa in impacted areas beginning to wilt. Will be much more obvious in a another day or two. Preliminary flagging of impact areas off location by CRI and O&G on Sunday afternoon was pretty good. Salt crystals, however, show that misting salt water is somewhat more extensive. CRI indicates the entire field to west and north will be mowed and collected as a precaution. Salt crystals and wilting seen to north of location out to 200+ yards where we walked, and cottonwood tree to northeast of location has salt crystals on leaves. Tributary vegetation to northeast of location has salt crystallization evident beyond the hot zone fence. CRI commits to mowing and removing all of this vegetation. Adam Miller will do further walk around inspections in days to come.

After inspection talked with Stacy Aguirre. Asked for written assessment workplan to include: 1) detailed analysis of liquid on location to determine what process chemicals remain (well had been freshly fraced, and the workover was to clean and bring it into production) as well as strength of formation water. 2) Describe assessment grid off location. 3) Describe what number of soil samples are anticipated for laboratory analysis as indicated by soil screening for chlorides, and 4) collect some small number of soil samples from grid that will be analyzed for process chemicals identified in liquid sample from pad.

At 17:22 CDT, turned oversight over to Adam Miller and left site for Triple A Safety in Watford City to have department 4 gas monitor re-calibrated.

Date: 8/5/2013 **Status:** Inspection

Author: Roberts, Kris

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

8/5/13 - 14:20 - On location update. Well still not under control. They are working on it now, with hopes for this afternoon, but no long odds on it yet. Some of the equipment they might need is still on way from Texas, last I heard. Harold Hamm is on location, I just heard, but haven't seen him. The well had been fraced, and the workover rig was bringing it into the production phase – cleanout, flowback, pump install, etc., when they lost control.

So far, it looks like the wind has made about 270 degree swing. Only area not visibly misted off location is the southwest quadrant; looks like almost 90 degrees clear. Rest of the circle is misted out 150+ to 500+ yards. All in alfalfa field with round bales still on except in the SE and S quadrants, where the farmer got them off before the wind shifted.

During walk around with Stacy and Todd (CRI) we discussed their tentative plans for when the well is shut in. On my suggestion and our discussion, they plan to mow the whole impact area out well beyond the visible impact. I relayed Dr. Keller's concern about oilfield chemicals (including crude oil) getting into the food chain. They are having a 3rd party consultant come in and set up a sampling grid to screen for soil impacts. I suggested they talk with Jeanne Gohl, and use chloride field screening method she developed to help zero in on areas where lab analyses are needed.

A tributary to Horse Creek runs on the north and west side of the oil pad. It is completely dry at this time. No standing water anywhere that I saw. It is a pool and riffle stream when flowing. Any rain events will fill the pools first, and it will be unlikely to begin flowing any time soon. I talked with Stacy and Todd about mowing down the thick grasses along this tributary, and they agree. Some of it will take hand cutting due to varying surface conditions, but shouldn't be too onerous a task.

I am waiting for Adam to arrive, and will go around with him, show him what to look for in seeking the perimeter of the impact independently of CRI or their consultant.

I will make it clear to Stacy before I leave for Divide Co. that we want a workplan from the consultant ASAP for screening and sampling, with remediation plan to follow from the sampling.

The nearest pasture is nearly ½ mile to the west, with cattle in it, and well beyond all but the lightest, sporadic mist. Half way to that pasture, it took close observation to see any impact on the vegetation. Stacy Aguirre said, without committing exactly, that the land owner will be taken care of, which I interpret (given the rest of our conversation) mean that any hay bales potentially misted will be taken by CRI and disposed or used for another purpose. The bales are wrapped, as now typical practice, and only a very little hay in them would actually be impacted.

Date: 8/5/2013 **Status:** Reviewed - Follow-up Required

Author: Stockdill, Scott

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

Follow Up required. According to report discharge from blowout is impacting surrounding soil and water. Kris Roberts on location 8/5/13, Adam Miller will relieve Kris Roberts in the afternoon of 8/5/2013.

Date: 8/6/2013 **Status:** Inspection

Author: Miller, Adam

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

Toured the site and visited with Mike White with Continental resources. I walked the entire perimeter and at the time, I was satisfied with Continental's delineation of the contaminated area. The bulk of the contamination lies to the north of the pad and I saw evidence of misted vegetation out to about 400 yards to the northwest. Clean up personnel had mowed a line around the contaminated area and were starting to mow the interior of the line and remove all the hay bales. Mike stated that an independent contractor was going to pull soil samples from the contaminated area to determine the level of DRO's, chloride, etc.. That analysis, as well as a full site assessment report will be made available to the Department as the information becomes available.

Date: 8/8/2013 **Status:** Inspection

Author: Miller, Adam

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

Toured the site again with Mike White. We drove the perimeter in a UTV and noticed that vegetation was starting to die outside the pre-established perimeter in the northwest corner. Mike stated that Continental intends to remove the vegetation all the way to the fence line on the west side and north side to ensure that all contaminants on standing vegetation have been removed. Large farm equipment was being used to mow the large areas and rake it into windrows to be baled. Those bales will be disposed of in an approved landfill. A small team of people was using weed eaters to cut the remaining vegetation down and hand raked into piles for collection into bags or into more windrows. This vegetation will also be disposed of. Mike stated that the trees/bushes on the east side of the pad that were affected by the mist will be sprayed with S200 and monitored for the time being. Mike also stated the Continental will decide after they obtain the soil sample results whether or not to remediate in place or if the soil will need to be removed. Either of these actions will require Department approval.

Date: 8/14/2013 **Status:** Inspection

Author: Roberts, Kris

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

8/14/13 - 06:00, off-site review. Received email and soil sampling plan from Stacy Aguirre at 22:45 on 8/13/13. Written sampling workplan not included. Forwarded to Adam Miller for review and conference. Roberts will be on location this date for onsite oversight.

09:00 on location. Contaminated soils all removed from location. Walked off pad area. Significant cut vegetation still on location in the dry creek bed. Called company contact. Learned that cleanup contractor had problems and job was turned over to another contractor that would be done with project within 1 week. Round hay bails were still to be removed and contractor was responsible for hauling them to disposal as well. Spoke with contractor. Confident contractor would be capable of the work and the timetable.

Date: 8/16/2013 **Status:** Inspection

Author: Roberts, Kris

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

8/16/13 - 18:30 on location. Photos. Impacted soils off location have been skimmed off and stockpiled. In process of being hauled away. Should be done within 2-3 days. No further follow-up necessary.