

**FORM  
INSP**

Rev  
X/15

**State of Colorado  
Oil and Gas Conservation Commission**

1120 Lincoln Street, Suite 801, Denver, Colorado 80203  
Phone: (303) 894-2100 Fax: (303) 894-2109



Inspection Date:

05/15/2019

Submitted Date:

05/21/2019

Document Number:

690101229

**FIELD INSPECTION FORM**

Loc ID 449370 Inspector Name: Maclaren, Joe On-Site Inspection  2A Doc Num: \_\_\_\_\_

**Status Summary:**

- THIS IS A FOLLOW UP INSPECTION
- FOLLOW UP INSPECTION REQUIRED
- NO FOLLOW UP INSPECTION REQUIRED

**Operator Information:**

OGCC Operator Number: 100322  
Name of Operator: NOBLE ENERGY INC  
Address: 1001 NOBLE ENERGY WAY  
City: HOUSTON State: TX Zip: 77070

**Findings:**

- 2 Number of Comments
- 1 Number of Corrective Actions
- Corrective Action Response Requested

**ANY CORRECTIVE ACTION(S) FROM PREVIOUS INSPECTIONS THAT HAVE NOT BEEN ADDRESSED ARE STILL APPLICABLE**

**Contact Information:**

Contact Name	Phone	Email	Comment
Allison, Rick		rick.allison@state.co.us	
		NBL_DJBU_Inspections@NB LENERGY.COM	
Schlagenhauf, Mark		mark.schlagenhauf@state.co. us	
Aamold, Howard		Howard.Aamold@nblenergy.c om	

**Inspected Facilities:**

Facility ID	Type	Status	Status Date	Well Class	API Num	Facility Name	Insp Status
464356	SPILL OR RELEASE	AC	05/16/2019		-	Haper- Kona A21-13	EG

**General Comment:**

Engineering Integrity inspection performed on May 15th, 2019 in response to initial form 19 spill report Doc #402043727 received by COGCC on 05/14/2019 that outlines: During normal production operations a release of 2 barrels of crude oil/ produced water occurred due to a produced liquids line failure. Facility was shut down and repairs to produced liquids line completed. Cleanup in progress.

Details of Actions Required identified during this field inspection are located in the flowline section of this report. Photos uploaded.

**Inspected Facilities**

Facility ID: 464356 Type: SPILL OR API Number: - Status: AC Insp. Status: EG

**Flowline**

#1	Type: Process Piping	1 of Lines
----	----------------------	------------

Flowline Description

Flowline Type: Process Piping Size: 2" Material: Carbon Steel  
 Variance: Age: 1-5 Yrs Contents: Multiphase

Integrity Summary

Failures: Internal Corrosion Spills: Yes Repairs Made:  
 Coatings: Yes External H2S: No Cathodic Protection:

Pressure Testing

Witnessed: Test Result: Charted:

COGCC Rules(check all that apply)

1101. Installation and Reclamation  1102. Operations, Maintenance, and Repair  1103. Abandonment

Comment: COGCC ENG Integrity Inspector met with COGCC EPS Rick Allison and Noble Energy ENV Specialist Howard Aamold on location. A failure occurred on a 2" process pipe assembly (above ground crude oil/ produced water dump flowline crossover) at the outlet of the heated horizontal separator servicing the Kona A19-636 well (API 123-44577). A corrosion pinhole (localized pitting corrosion/ appears internal) formed near a T fitting where several pieces of 2" pipe are welded together, in an area of potential turbulent fluid flow. The root cause of the corrosion failure has not been determined. The pipe assembly has been temporarily replaced with a part from an adjacent unit; however, this well/ equipment (multi well pad/ Gen 4 facility) is currently shut in. Based on the conversation with Noble personnel on site, a similar failure may have recently occurred at another Noble Energy Gen 4 facility. As a result, the dump/ process pipe assemblies are scheduled for engineering review by Noble Energy (and scheduled to be replaced using heavier wall pipe/ materials). Spill response/ sampling activities are currently in progress.

Corrective Action: Email information requested below to COGCC ENG Integrity Unit and update COGCC Supplemental Form 19 to include the following:  
 1) Root cause of corrosion failure resulting in the release (type of corrosion/ results of failure analysis)  
 2) Measures taken to prevent the problem from reoccurring (at this and other/ similar Gen 4 facilities)  
 3) Description of flowline (process pipe/ dump line assembly) repairs/ replacements completed (changes in design/ materials)  
 4) Copy of integrity management procedures completed (post repair integrity confirmation/ pressure testing data or AVO inspection form)

Date: 07/21/2019

**Attached Documents**

You can go to COGCC Images (<https://cogcc.state.co.us/weblink/>) and search by document number:

Document Num	Description	URL
690101231	Photo Log	<a href="http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=4829088">http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=4829088</a>