

**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:

08/20/2019

Submitted Date:

08/23/2019

Document Number:

690101373

FIELD INSPECTION FORM

Loc ID _____ Inspector Name: _____ On-Site Inspection
Maclaren, Joe _____ 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:

- 5 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
Graber, Nikki		nikki.graber@state.co.us	
Schlagenhauf, Mark		mark.schlagenhauf@state.co.us	
		NBL_DJBU_Inspections@NBLENERGY.COM	
Aamold, Howard		Howard.Aamold@nblenergy.com	

Inspected Facilities:

Facility ID	Type	Status	Status Date	Well Class	API Num	Facility Name	Insp Status
466827	SPILL OR RELEASE	AC	08/19/2019		-	Frenzel B 15-05	EG

General Comment:

Engineering Integrity inspection performed on August 20th, 2019 in response to initial form 19 spill report Doc #402148392 received by COGCC on 08/19/2019 that outlines: During operations a flowline release was discovered. The line/ location was shut in and excavation of impacted media is underway.

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

Inspected Facilities

Facility ID: 466827 Type: SPILL OR API Number: - Status: AC Insp. Status: EG

Flowline

#1	Type: Non-Well Site	of Lines
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Flowline Description

Flowline Type: Non-Well Site Size: 2" Material: Carbon Steel
 Variance: No Age: Contents: Multiphase

Integrity Summary

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

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 Integrity Inspector and COGCC EPS Nikki Grabber met with the Noble Energy contract personnel on location. An excavation (approx 30' x 40') was observed approximately 250' southeast of the Frenzel B 15-5 wellhead. (2) 2" carbon steel flowlines were observed exposed in the excavation. External coating damage was observed on both flowlines/ external corrosion pitting observed in several areas on the failed flowline. The failure resulting in the spill occurred on the Frenzel 15-5 flowline; root cause appears to be related to external corrosion. Contractors cut out approximately 30' of damaged pipe and replaced (welded in) a section of new 2" FBE coated schedule 80 carbon steel flowline. Based on the old pipe/ materials removed from the excavation, a previous/ historical repair had also been completed on the B 15-5 flowline in close proximity to this failure point. (contractors removed a 5' section of newer FBE coated pipe connected to old line by a threaded collar and hammer union). The approximate overall length of Frenzel B 15-5 flowline is 1100' feet from wellhead southeast to the tank battery. The Frenzel B 15-5 flowline appears to have a history of failures; It is unclear why Noble Energy has not made a decision to replace the entire length of the off location flowline.

Corrective Action: Provide information outlined below in writing (via email) to COGCC Engineering Integrity Group for review (pertaining to compliance of COGCC series 1100 flowline regulations):

Date: 09/23/2019

- 1) Root cause of off location flowline failure resulting in the release (results of failure analysis completed by operator)
- 2) Description of preventative measures that will be taken to avoid reoccurrence (in accordance with rule 906 d.2)
- 3) Explanation of how the extent of external coating/ corrosion damage has been determined
- 4) Expanation as to why the entire length of the failed flowline is not being replaced
- 4) Detailed description of the flowline repairs completed (coating repairs completed/ number of anodes installed at welded connections)
- 5) Copy of pressure testing charts for both (2) flowlines (Frenzel B 15 -5 and B 15-6) exposed in the excavation (post repair/ prior to return to service)
- 6) Add information requested above to the Corrective Actions section of COGCC Supplemental Form 19

Environmental

Spills/Releases:

Type of Spill: _____ Estimated Spill Volume: _____

Comment: Groundwater was observed in contact with impacted soils. In accordance with Rule 909.c. submit a Form 27 Site Investigation and Remediation Workplan with a proposed workplan and timeline for remediation of this Release. Due within 10 days (by August 30, 2019)

Corrective Action: _____ Date: _____

Reportable: _____ GPS: Lat _____ Long _____

Proximity to Surface Water: _____ Depth to Ground Water: _____

Water Well Complaint:

DWR Receipt Num: _____ Owner Name: _____ GPS : _____ Lat _____ Long _____

Field Parameters:

Sample Location: _____ Comment: _____

COGCC Comments

Comment	User	Date
Note: Livestock is lose in the area. Ensure any open excavation is properly secured when unsupervised.	maclarej	08/23/2019
COGCC form 42 notice of flowlines abandoned Doc #401390520 was received on 08/29/2017.	maclarej	08/23/2019

Attached Documents

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

Document Num	Description	URL
690101374	Corrosion hole identified on flowline (cut out)	http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=4918060
690101375	View of excavation, groundwater and flowlines (to S)	http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=4918061
690101376	View from Frenzel B 15-5 wellhead to release point	http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=4918062
690101377	Flowline repair being completed (2" OD FBE Pipe)	http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=4918063