



August 4, 2021

Nathan Bennett
Extraction Oil & Gas
370 17th Street, Suite 5300
Denver, CO 80202

Subject: Third Party Flowline Abandonment-in-place Verification Letter
YOUNG-61N69W 26SENW
(Location ID: 335558)
"YOUNG MC 26-03D"
40.02481, -105.087136
SENW 26 1N69W
Boulder County, Colorado

Dear Mr. Bennett,

This letter shall serve as verification that an Apex Companies LLC (Apex) Field Geologist, working under the supervision of a Professional Engineer registered with the State of Colorado, was present during the abandonment-in-place of the Extraction Oil & Gas off-location flowline, Young MC 26-03D (COGCC Location ID: 335890), located in Boulder County, Colorado. A pre-abandonment notice under Form 44 Document Number 402657256, submitted on April 13, 2021. The Apex Field Geologist observed that the abandonment requirements of Rule 1105.e.(1)-(4) were met including:

1. Evacuate the flowline or crude oil transfer line of any hydrocarbons or produced water to ensure the line is safe and inert;
2. Deplete the flowline or crude oil transfer line to atmospheric pressure;
3. Cut the flowline's or crude oil transfer line's risers to three (3) feet below grade or to the depth of the flowline or crude oil transfer line, whichever is shallower; and
4. Seal the ends of the flowline or crude oil transfer line below grade;

Observations

On July 7, 2021, an Apex Field Geologist was dispatched to the Young MC 26-03D location to observe the depletion of the flowline to atmospheric pressure (Rule 1105.e.2), evacuation of any remaining hydrocarbons or produced water from the flowline (Rule 1105.e.1) and flushing with freshwater of 942 feet of 2-inch flowline. Each riser ends of the flowline were uncapped and the flowline was allowed to deplete to atmospheric pressure. The pipe was then made safe and inert by flushing 30 barrels of fresh water through the full length of flowline until clear water was observed at the receiving end, evacuating any remaining hydrocarbons, or produced water from the flowline.

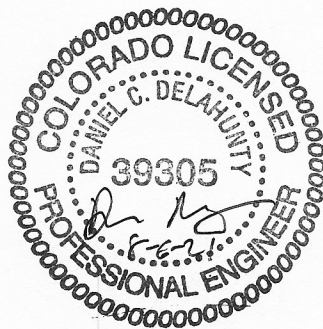
On July 12, 2021, the Apex Field Geologist observed the flowline being cut (Rule 1105.e.3) and sealed (Rule 1105.e.4) at both ends of abandonment (wellhead Side A and separator Side B). The flowline was cut at the utility depth, approximately 3-feet at End A, and at approximately 3-feet at End B. Both ends of the off-location portion of flowline then had threads cut into the outside surface, and a threaded cap was installed and sealed with black tape. The on-location portions of the flowline, including the risers at both ends, will be fully removed.

In addition to observation of abandonment activities, the Apex Field Geologist completed a visual assessment of the site for soil staining, salt accumulation, stressed vegetation, or other signs of soil impacts at the surface. The visual assessment of the site yielded no areas of concern. The flowline was also inspected for indications of suspected asbestos containing wrapping or coating and was found to be steel casing with no wrapping or coating.

Sincerely,
Apex Companies, LLC



Dan Delahunty, P.E., CPESC
Program Manager



Attachments:

1. Line Abandonment-in-Place Form
2. Flowline Abandon-in-Place Checklist
3. Flowline AIP Diagram
4. Photolog



LINE ABANDONMENT IN PLACE FORM

Location Description: **YOUNG MC 26-03 D PEA** Date: **7/9/21**

Reason for Abandonment in Place per 1105d (mark applicable reason)

A: Surface Owner Agreement Allowance	B: Federal Location	C: Co-Located with Other Lines or Right of Way	D: Significant damage to Natural Resources	E: Restricted Occupance Area or Sensitive Wildlife	F: Within 30ft of Public road, Path ROW, Utility or Pipeline Crossing	G: Within 30ft of or under River, Stream, or Wetlands	H: Will cause significant Emmissions	Pre Locate Complete?: YES
		X						Ticket Attached?: YES
								Ticket: B117601248-00B

Company performing the work: **LASER OILFIELD**

Crew Member Name:	Crew Member Title:	Crew Member Name:	Crew Member Title:
AJ MARTINEZ	FOREMAN		
MARCO CASTILLO	HAND		

Welder : (if applicable) _____ Welder Certification #: _____

Description of work to be performed: **FLUSH FLOWLINE WITH FRESH WATER. Remove Riser AT WELLHEAD. Remove 110' OF FLOWLINE AT WELL. Remove Riser AT SEP. CUT + CAP AT SEP + AT WELL. APEX WITNESS FLUSH-CUT-CAP. NO SUPPLY LINE FOUND**

Remaining Line #1

Remaining Line #1 Desc: **FLOWLINE**

Line Size: 2"	Line Type: STEEL	Coating?: COAL TAR	Estimated Flowline Depth: 4'
Reason for Leaving Lines in Place: Co-LOCATED WITH OTHER FLOWLINE			Estimated Flowline Length: 942'

<input checked="" type="checkbox"/> Line Flush with Fresh Water	<input type="checkbox"/> Inert Gas Added into Line
<input checked="" type="checkbox"/> Removed Riser	<input type="checkbox"/> Welded Cap
<input checked="" type="checkbox"/> Installed Threaded Collar and Bullplug	

Remaining Line #2

Remaining Line #2 Desc: _____

Line Size: _____	Line Type: _____	Coating?: _____	Estimated Flowline Depth: _____
Reason for Leaving Lines in Place: _____			Estimated Flowline Length: _____

<input type="checkbox"/> Line Flush with Fresh Water	<input type="checkbox"/> Inert Gas Added into Line
<input type="checkbox"/> Removed Riser	<input type="checkbox"/> Welded Cap
<input type="checkbox"/> Installed Threaded Collar and Bullplug	

Sales Line/ Riser Still on Location?: Yes No Sales Line Owner?: **WESTERN MIDSTREAM**

Name of Qualified 3rd Party Observer : **Ryan Finley** License #: **CO 39305**

Signature of Qualified 3rd Party Observer : *Ryan Finley* Employed By: **Apex Companies LLC**

Operations Approval: _____ Date: / /

Maintenance Approval: _____ Date: / /



Flowline Abandon-in-place Checklist

Project Manager: Dan Delahunty, Ryan Finley

Site Name(s): YOUNG MC #26-03D

Location ID: 335558

Client: Extraction Oil and Gas

Lat/Long: 40.02481, -105.087136

Abandonment Dates: 07/07/2021

Time Onsite: 10:00

Time Offsite: 13:01

07/12/2021

09:35

10:10

Flowline Information:

Type: Steel

Length: 942 feet

Diameter: 2 inch

Condition: Intact - No noted damage

Coating: Mastic tar

Other: No asbestos containing material. Co-located with Young 26-04D

Requirements to be verified (COGCC 1105 e. #1-4)

- Evacuate the flowline or crude oil transfer line of any hydrocarbons or produced water to ensure the line is safe and inert.
 - Start time/date: 07/07/2021 at 10:40
 - End time/date: 07/07/2021 at 11:50
 - Volume of fresh water used: 30 barrels
 - Notes/details: Flowline temporarily capped until final cut and cap occurred on 07/12/2021
- Deplete the flowline or crude oil transfer line to atmospheric pressure
 - Date/Time uncapped:
 - End A (wellhead): 07/12/2021
 - End B (separator): 07/12/2021
- Cut the flowline's or crude oil transfer line's risers to three (3) feet below grade or to the depth of the flowline or crude transfer line, whichever is shallower.
 - Depth of cut flowline:
 - End A: 3 feet



- End B: 3 feet
 - Location (cut and capped location)
 - End A: 40.024660°, -105.087468°
 - End B: 40.022472°, -105.088894°
- Seal the ends of the flowline or crude transfer line below grade
 - End A
 - Method: Capping
 - Type: Threaded
 - Date: 07/12/2021
 - End A
 - Method: Capping
 - Type: Threaded
 - Date: 07/12/2021



YOUNG-61N69W 26SENW
(Location ID: 335558)
"YOUNG MC 26-03D"
Flowline Abandoned in Place

Wellhead End

Separator End

N 111th St





Photo Documentation

Description:



Photo Documentation

Description:



Photo Documentation

Description:



Photo Documentation

Description: