

FREMONT ENVIRONMENTAL INC.

February 09, 2023

Mr. Daniel Peterson
Noble Energy Inc.
2115 117th Avenue
Greeley, CO 80634

Subject: **Flowline Closure Data Submittal**
PTF C 32-8
API # 05-123-14879
SENE Sec. 32, T4N, R64W
Weld County, Colorado
Fremont Project No. C022-089
Facility # 247082, Remediation #23204

Dear Mr. Peterson:

As you requested, Fremont Environmental Inc. (Fremont) personnel conducted Flowline Closure activities for the Noble Energy Inc. (Noble) PTF C 32-8. Impacted soil was not encountered during abandonment activities. Details of the PTF C 32-8 flowline closure activities are documented in the attached Closure Report. Groundwater was not encountered during flowline abandonment activities.

Please contact me at (303) 956-8714 if you require any additional information. Fremont appreciates the opportunity to provide this service.

Sincerely,

FREMONT ENVIRONMENTAL INC.



Paul V. Henehan, P.E.
Senior Consultant

Attachments:

- Facility Closure Checklist
- Tables
- Figures
- Photos
- Laboratory Reports

Flowline Closure Checklist

COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form

Additional Attachments:		Tank Battery Closure		Wellhead Closure		Pit Closure		Partially Buried Vault Closure
Site Name & COGCC Facility Number: PTF-64N64W 32SENE Facility ID: 327571		Date: 07/19/2022			Remediation Project #: 23204			
Associated Wells: PTF C 32-1 & PTF C 32-8 API: 05-123-14878 Facility ID: 247081 API: 05-123-14879 Facility ID: 247082		Age of Site: 1991			Number of Photos Attached: 5 Photos			

Starting point: (GPS coordinates and descriptions) **40.270221, -104.567746**

End point: (GPS coordinates and descriptions) **40.271330, -104.565757**

USCS Soil Type: **SW** Estimated Depth to Groundwater: **8-10ft**

Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)
None observed

Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)
None observed

Flowlines

Flowline type	2" Steel						
Depth	3-5ft						
Age	1991						
Length	950ft						
Construction Material	Non ACM / 2" Steel						
Were flowlines pulled?	Yes						
Visual Integrity of lines	No Damage						
Visual impacts if trenched	No Impacts						
PID Readings if trenched	High @ 1.0ppm						
Sample taken? Location/Sample ID#	Fieldscreened Only						
Photo Number(s)	Photo 1A-1E						

Other observations regarding on location flowlines:

Summary

Was impacted soil identified?
No Yes - less than 10 cubic yards Yes - more than 10 cubic yards

Total number of samples field screened: **6 Samples** Total number of samples collected: **6 Samples**

Highest PID Reading: High @1.0ppm (8FL06@4.0', 8FL03@4.5' and 8FL04@5.0') Total number of samples submitted to lab for analysis: **0 Sample**

If more than 10 cubic yards of impacted soil were observed:

Vertical extent: **N/A** Estimated spill volume: **N/A**

Lateral extent: **N/A** Volume of soil removed: **N/A**

Is additional investigation required?
N/A

Was groundwater encountered during the investigation?
No Yes - not impacted or in contact with impacted soils Yes - groundwater impacted and/or in contact with impacted soils

Measured depth to groundwater: **N/A** Was remedial groundwater removal conducted? Yes No

Date Groundwater was encountered: **N/A** Commencement date of removal: **N/A**

Sheen on groundwater? Yes No Volume of groundwater removed prior to sampling: **N/A**

Free product observed? Yes No Volume of groundwater removed post sampling: **N/A**

Total number of samples collected: **N/A** Total Volume of groundwater removed: **N/A**

Total number of samples submitted to lab for analysis: **N/A**

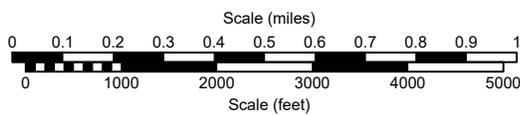
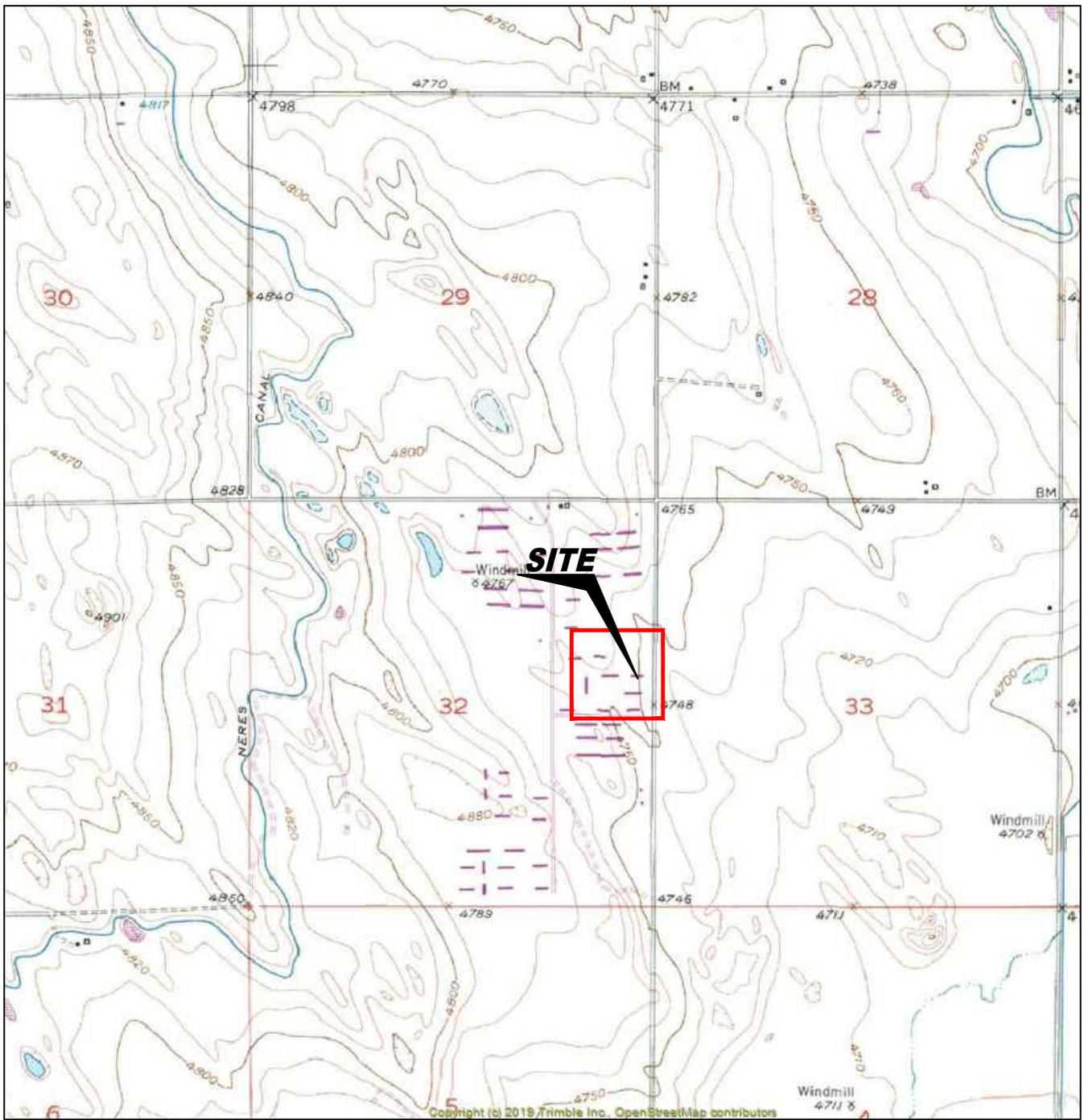
TABLE 1
SUMMARY OF POTHOLE FIELD OBSERVATIONS
NOBLE ENERGY INC.
PTF C 32-8, WELD COUNTY, COLORADO
FREMONT PROJECT C022-089

Location	Latitude	Longitude	PID Reading	Field Observations
8FL01@3.0'	40.270221	-104.567746	0.3ppm	No Impacts Noted
8FL02@5.0'	40.270325	-104.567292	0.9ppm	No Impacts Noted
8FL03@4.5'	40.270485	-104.566832	1.0ppm	No Impacts Noted
8FL04@5.0'	40.270951	-104.566462	1.0ppm	No Impacts Noted
8FL05@5.0'	40.271502	-104.566012	0.1ppm	No Impacts Noted
8FL06@4.0'	40.271330	-104.565757	1.0ppm	No Impacts Noted

TABLE 2
SUMMARY OF FLOW LINE CONDITION
NOBLE ENERGY INC.
PTF C 32-8, WELD COUNTY, COLORADO
FREMONT PROJECT C022-089

START	STOP	FOOTAGE	PIPE TYPE AND CONDITION
8FL01@3.0'	8FL02@5.0'	115	2" Sch 80 welded steel pipe, Wrapped in Black Non ACM Tape, Good Condition
8FL02@5.0'	8FL03@4.5'	135	2" Sch 80 welded steel pipe, Wrapped in Black Non ACM Tape, Good Condition
8FL03@4.5'	8FL04@5.0'	180	2" Sch 80 welded steel pipe, Wrapped in Black Non ACM Tape, Good Condition
8FL04@5.0'	8FL05@5.0'	220	2" Sch 80 welded steel pipe, Wrapped in Black Non ACM Tape, Good Condition
8FL05@5.0'	8FL06@4.0'	300	2" Sch 80 welded steel pipe, Wrapped in Black Non ACM Tape, Good Condition

950 Total linear feet of flow line



USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP

Noble Energy, Inc. ~ PTF C 32-8
 SENE Sec. 32, T4N, R64W, 6th PM
 Weld County, Colorado
 40.270210°, -104.567750°

Project # C022-089	API # 05-123-14879	Facility # 247082
Date 2/7/23	Remediation # 23204	Filename 22089T4





LEGEND

- ▲ PID READING LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- BUILDING
- BUILDING
- CONTAINMENT BERM
- FLOW LINE
- FENCE LINE

25.01 (2.5') PID READING LOCATION IDENTIFICATION
5.0 (0.5 ppm) PHOTO IONIZATION DETECTION (ppm)

**Figure 2
SITE MAP**

Noble Energy, Inc. ~ PTF C 32-8
 SENE Sec. 32, T4N, R64W, 6th PM
 Weld County, Colorado
 40.270210°, -104.567750°

Project No. C022-089	API # 05-123-14879	Facility # 247082
Date 2/7/23	Reviewed By 23204	Filename 22089Q32-8





#1A – PTF C 32-8 Flowline Removal – 8FL01@3.0' – Wellhead Tie-in - No Impacts Noted - PID 0.3ppm



#1B – PTF C 32-8 Flowline Removal – 8FL03@4.5' – No Impacts Noted - PID 1.0ppm



#1C – PTF C 32-8 Flowline Removal – 8FL04@5.0' – No Impacts Noted - PID 1.0ppm



#1D – PTF C 32-8 Flowline Removal – 8FL05@5.0' – No Impacts Noted - PID 0.1ppm



#1E – PTF C 32-8 Flowline Removal – 8FL06@4.0' – Separator Tie-in – No Impacts Noted -
PID 1.0ppm