

Region 6 - Enforcement & Compliance Assurance Division
INSPECTION REPORT

Inspection Date(s):	04/13/2023	
Media Program:	Water	
Regulatory Program(s)	Clean Water Act-National Pollution Discharge Elimination System (Brine)	
Company Name:	Calgary Energy, LLC	
Facility Name:	Tidal Osage	
Facility Physical Location:	Latitude: 36.541797, Longitude: -96.401344	
(city, state, zip code)	Hominy, OK, 74035	
Mailing address:	4444 E. 146 th St. N	
(city, state, zip code)	Skiatook, OK, 74070	
County/Parish:	Tulsa	
Facility Phone Number	918-798-4510	
Facility Contact:	Blaine Haag	Co-Owner
	bhaag.calgaryenergyllc@gmail.com	
FRS Number:	n/a	
Identification/Permit Number:	OKU000893	
Media Identifier Number:	n/a	
NAICS:	211111	
SIC:	1311	
Personnel participating in inspection:		
Matthew Allen	EPA/Region 6 ECDW	Inspector
EPA Lead Inspector Signature/Date		
	Matthew Allen	Date
Supervisor Signature/Date		
	Damon McElroy (<i>acting</i>)	Date

Section I – INTRODUCTION

PURPOSE OF THE INSPECTION

EPA Region 6 Inspector, Matthew Allen, arrived at the Calgary Energy, LLC / Tidal Osage I Lease (EPA ID No. OKU000893) at 08:00 AM on 04/13/2023 for an inspection in response to a citizen complaint. This was an EPA inspection in response to the complaint of a purging well located very near, and possibly impacting a nearby waterbody. The purpose of the inspection was to investigate possible brine impacts into Little Hominy Creek from the purging well. There was no operator representative present during the inspection. The inspection was conducted by the authority of the Clean Water Act (CWA) to determine compliance with Environmental Protection Agency (EPA) regulations. There was no other federal, state, or local agency representative present at the time of the inspection.

FACILITY DESCRIPTION

EPA conducted an inspection at the Calgary Energy, LLC, Tidal Osage I Lease, where a temporarily abandoned production well was purging brine to the surface. The brine was migrating toward nearby Little Hominy Creek.

Section II - OBSERVATIONS

I observed the capped well and the area of brine saturated soil around the well, which can be seen in photos No. 1 and 2 of Appendix 1 (photo log). All photos in the inspection were taken within 30 feet of GPS location (36.541797, -96.401344).

I observed the area where brine impacts travelled over the bank and migrated downgrade toward Little Hominy Creek. Damp soil and white crystalized brine was visible across the impacted area. See photos No. 3 and 4 in the attached photo log.

I observed a small area where brine/air/gas was bubbling up approximately 5 feet from the capped well, evidence of an ongoing leak from the well. See photo No. 5.

Section III – AREAS OF CONCERN

The primary area of concern is to immediately stop the well from purging brine and prevent brine from entering nearby Little Hominy Creek.

Brine impacted soil should be removed from the location to prevent brine washing into the waterway during future rainfall events.

Section IV – FOLLOW UP

As a closing conference, inspector contacted Blaine Haag and Duane Easley, Calgary Energy representatives, and requested immediate action related to the areas of concern and to prevent additional brine being released from the well. Calgary Energy responded within an hour, dug around the well and replaced the leaking fittings to prevent further brine from escaping the well. Calgary Energy also agreed to seek emergency approval from the Bureau of Indian Affairs (BIA) to properly plug the well to prevent future recurrence.

Inspector also contacted BIA Osage Agency, Lee Burnett, Mike Perrier, Alfred McKinley and Steven Kohler to alert their office of the importance of the emergency plugging request from Calgary Energy.

Section V – LIST OF APPENDICES

Appendix 1 – Photo Log – 5 photos taken 04/13/2023

Note: The time stamp overlay on the photos was 1 hour behind on the day of the inspection. The correct time when each photo was taken is noted in the metadata listed below each photo in the photo log.

Appendix 1

Photograph Log 5 Photos



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 1

Location: 36.541797, -96.401344		
City: Hominy	County/Parish: Osage	State: Oklahoma



Photo File Name: R0010099

Orientation: SE

Date of Photo: 04/13/2023

Time of Photo: 8:10 AM

Latitude: 36.541797

Longitude: -96.401344

Photographer: Matthew Allen

Description: This was the capped, unmarked well that was leaking brine to the surface.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 2

Location: 36.541797, -96.401344		
City: Hominy	County/Parish: Osage	State: Oklahoma



Photo File Name: R0010100

Orientation: S

Date of Photo: 04/13/2023

Time of Photo: 8:11 AM

Latitude: 36.541797

Longitude: -96.401344

Photographer: Matthew Allen

Description: This was an overview showing the purging well, brine impacted area around the well and the proximity of the location in relation to Little Hominy Creek which was seen in background.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 3

Location: 36.541797, -96.401344		
City: Hominy	County/Parish: Osage	State: Oklahoma



Photo File Name: R0010101

Orientation: N

Date of Photo: 04/13/2023

Time of Photo: 8:13 AM

Latitude: 36.541797

Longitude: -96.401344

Photographer: Matthew Allen

Description: This was a photo taken from just off the edge of the bank leading to Little Hominy Creek, with a view to the north showing the brine impacted area and the capped well.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 4

Location: 36.541797, -96.401344		
City: Hominy	County/Parish: Osage	State: Oklahoma



Photo File Name: R0010102

Orientation: ESE

Date of Photo: 04/13/2023

Time of Photo: 8:15 AM

Latitude: 36.541797

Longitude: -96.401344

Photographer: Matthew Allen

Description: This was a photo taken from the same locating as photo No. 3 on the previous page, with a view toward the ESE. Brine soaked soil was present in the lower left hand corner of the photo, brine impacts were within 20 feet of Little Hominy Creek in this photo.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 5

Location: 36.541797, -96.401344		
City: Hominy	County/Parish: Osage	State: Oklahoma

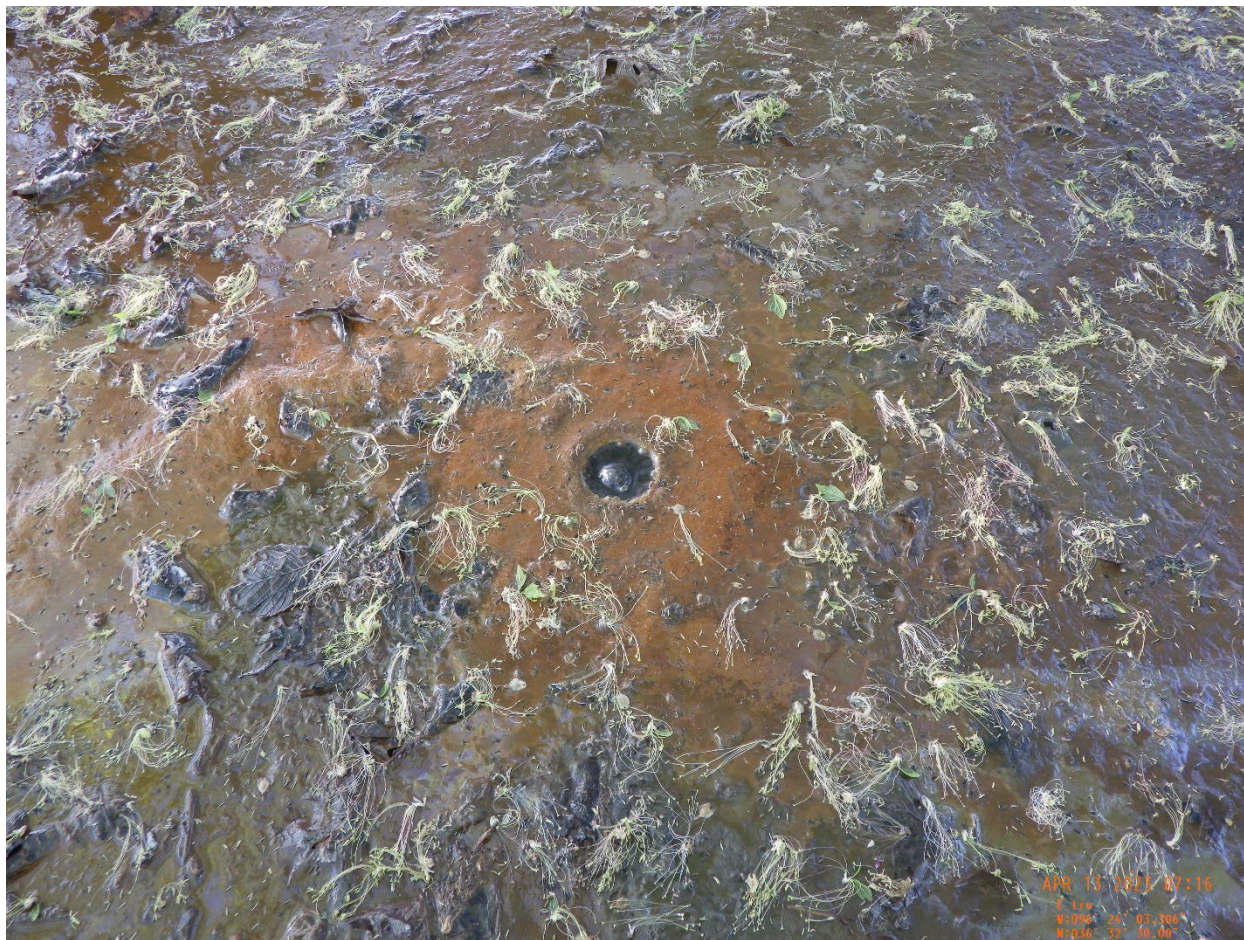


Photo File Name: R0010103

Orientation: N/A

Date of Photo: 04/13/2023

Time of Photo: 8:16 AM

Latitude: 36.541797

Longitude: -96.401344

Photographer: Matthew Allen

Description: This was a photo of brine/air/gas bubbling up to the surface approximately 5 feet from the capped well.