

Region 6 - Enforcement & Compliance Assurance Division
INSPECTION REPORT

Inspection Date(s):	5/24/2023	
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: 36.529327, Longitude: -96.411303	
(city, state, zip code)	Hominy, OK, 74035	
Mailing address:	4444 E. 146 th St. N	
(city, state, zip code)	Skiatook, Oklahoma, 74070	
County/Parish:	Tulsa	
Facility Phone Number	918-798-4510	
Facility Contact:	Blaine Haag	Co-Owner
	Bhaag.calgaryenergyllc@gmail.com	
FRS Number:	NA	
Identification/Permit Number:	OKU002161	
Media Identifier Number:	NA	
NAICS:	211111	
SIC:	1311	
Personnel participating in inspection:		
Michael Blaha	EPA/Region 6 ECDW	Enforcement Officer/Inspector
Tamara Griffin	EPA/Region 6 ECDW	Inspector
Matt Allen	EPA/Region 6 ECDW	Inspector
Jeanne Eckhart	EPA/Region 6 ECDW	Enforcement Officer/Inspector
EPA Lead Inspector Signature/Date		
	Michael Blaha	Date
Supervisor Signature/Date		
	Enoch Johnbull (<i>acting</i>)	Date

Section I – INTRODUCTION

PURPOSE OF THE INSPECTION

EPA Region 6 inspectors Michael Blaha, Tamara Griffin, Matt Allen, and Jeanne Eckhart arrived at the Calgary Energy, LLC, Tidal Osage II Lease (EPA ID No. OKU002161) at 5:15 PM on 5/24/2023 for an unannounced follow-up inspection. This was a follow-up inspection in response to a National Response Center Spill Report (NRC No. 1366143) which was received by EPA Region 6. No facility representatives were present at the time of the inspection. The inspection was conducted by the authority of the Clean Water Act (CWA) to determine compliance with Environmental Protection Agency (EPA) regulation. There were no other federal, state, or local agency representatives present at the time of the inspection.

FACILITY DESCRIPTION

EPA conducted a follow-up inspection on the Tidal Osage II Lease, where a 3-inch diameter poly flowline ruptured at a “butt weld”, releasing a company reported volume of 300 barrels oilfield brine and 1 barrel of crude oil onto the land which migrated downgradient approximately 35 feet where it entered a tributary of Little Hominy Creek. The pipeline failure occurred on a main “trunk line” which was carrying produced water and oil to the Tidal Osage II tank battery.

Section II - OBSERVATIONS

I observed the lease identification sign upon entry into the lease, see Appendix 1 (photo log), photo No. 1. For additional GPS location and photo metadata, see Appendix 1.

I observed the repaired section of 3-inch poly flowline which had ruptured. This section of repaired flowline was the Release Point of the Spill (36.529327, -96.411303). Oil staining and brine impacts were observed near the release point. See photos No. 2 and 3 of the photo log.

I observed an elevated TDS field reading of 61,621 mg/L in the main channel of the impacted tributary at the Point of Entry (POE), this location was approximately 35 feet from the release point (36.529259, -96.411136). See photos No. 4 through 7.

Working downstream, I observed an elevated TDS field reading of 2,622 mg/L as well as the bed and bank features of the tributary at the sample location. See photos No. 8, 9 and 10.

Further downstream, I observed a slightly elevated TDS field reading of 1,315 mg/L as well as the bed and bank features of the tributary. A transfer pump was present in this section of the tributary but was not active. See photo No. 11 through 14.

At the lowermost containment dam (36.531594, -96.403942), I observed a below background TDS field reading of 712 mg/L, this was the lowest TDS field reading observed during the inspection. At the same

location, I observed a vacuum truck load hose which was not being used at the time of the inspection. See photos No. 15 through 17.

All TDS field readings observed throughout the inspection were taken with a properly calibrated, EPA issued, YSI Pro 30 conductivity meter.

Section III – AREAS OF CONCERN

No closing conference was held due to no Calgary Energy, LLC staff being present during the inspection.

My primary areas of concern were the remaining oil and brine impacts along the impacted tributary of little Hominy Creek, and possible downstream migration of contaminated waters.

Section IV – FOLLOW UP

Inspector will conduct follow-up phone calls with the company representatives as well as follow-up inspections to measure cleanup progress over the coming days and weeks.

Section V – LIST OF APPENDICES

Appendix 1 – Photo Log – 17 photos taken 5/24/2023

Appendix 1

Photograph Log

17 Photos



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 1

Location: 36.529330, -96.411325		
City: Hominy	County/Parish: Osage	State: Oklahoma



Photo File Name: R0010231

Orientation: N

Date of Photo: 5/24/2023

Time of Photo: 6:16 PM

Latitude: 36.521125

Longitude: 96.407711

Photographer: Jeanne Eckhart

Description: Calgary Energy, LLC Tidal Osage I and Tidal Osage II lease gate entry sign.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 2

Location: 36.529330, -96.411325		
City: Hominy	County/Parish: Osage	State: Oklahoma



Photo File Name: R0010215

Orientation: SW

Date of Photo: 5/24/2023

Time of Photo: 5:24 PM

Latitude: 36.529327

Longitude: -96.411303

Photographer: Jeanne Eckhart

Description: This was the repaired section of 3-inch diameter poly flowline where the spill originated (release point). The operator stated there was a poly "butt weld" exposed, which developed a crack, causing the oil and brine to be released.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 3

Location: 36.529330, -96.411325		
City: Hominy	County/Parish: Osage	State: Oklahoma



Photo File Name: R0010216

Orientation: NA

Date of Photo: 5/24/2023

Time of Photo: 5:24 PM

Latitude: 36.529327

Longitude: -96.411303

Photographer: Jeanne Eckhart

Description: This photo of oil caught in debris is next to the 3-inch diameter poly flowline release point.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 4

Location: 36.529330, -96.411325		
City: Hominy	County/Parish: Osage	State: Oklahoma



Photo File Name: R0010217

Orientation: NA

Date of Photo: 5/24/2023

Time of Photo: 5:28 PM

Latitude: 36.529259

Longitude: -96.411136

Photographer: Jeanne Eckhart

Description: This was an elevated TDS field reading of 61,621 mg/L taken at the POE into the impacted tributary of Little Hominy Creek. This was the highest TDS level observed during the inspection.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 5

Location: 36.529330, -96.411325		
City: Hominy	County/Parish: Osage	State: Oklahoma



Photo File Name: R0010218

Orientation: NE

Date of Photo: 5/24/2023

Time of Photo: 5:28 PM

Latitude: 36.529259

Longitude: -96.411136

Photographer: Jeanne Eckhart

Description: This was the pool of water where the elevated TDS of 65,862 mg/L measurement was taken at the POE, with a view looking downstream. Oil sheen was also present at the POE.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 6

Location: 36.529330, -96.411325		
City: Hominy	County/Parish: Osage	State: Oklahoma



Photo File Name: R0010219

Orientation: SW

Date of Photo: 5/24/2023

Time of Photo: 5:28 PM

Latitude: 36.529259

Longitude: -96.411136

Photographer: Jeanne Eckhart

Description: This was a photo standing at the POE with a view to the SW or upstream.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 7

Location: 36.529330, -96.411325		
City: Hominy	County/Parish: Osage	State: Oklahoma



Photo File Name: R0010220

Orientation: E

Date of Photo: 5/24/2023

Time of Photo: 5:28 PM

Latitude: 36.529259

Longitude: -96.411136

Photographer: Jeanne Eckhart

Description: This was a photo standing at the POE with a view to the NE or downstream.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 8

Location: 36.529330, -96.411325		
City: Hominy	County/Parish: Osage	State: Oklahoma



Photo File Name: R0010221

Orientation: NA

Date of Photo: 5/24/2023

Time of Photo: 5:39 PM

Latitude: 36.530134

Longitude: -96.408909

Photographer: Jeanne Eckhart

Description: This was an elevated TDS field reading of 2,622 mg/L taken downstream from the POE.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 9

Location: 36.529330, -96.411325		
City: Hominy	County/Parish: Osage	State: Oklahoma



Photo File Name: R0010222

Orientation: E

Date of Photo: 5/24/2023

Time of Photo: 5:40 PM

Latitude: 36.530134

Longitude: -96.408909

Photographer: Jeanne Eckhart

Description: This was a photo taken at the same location as Photo No. 8 on the previous page. This is a view looking E or upstream, this photo shows the topography of the impacted tributary.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 10

Location: 36.529330, -96.411325		
City: Hominy	County/Parish: Osage	State: Oklahoma



Photo File Name: R0010223

Orientation: W

Date of Photo: 5/24/2023

Time of Photo: 5:40 PM

Latitude: 36.530134

Longitude: -96.408909

Photographer: Jeanne Eckhart

Description: This was a photo taken from the same location as photos No. 8 and 9. This was a photo with a W or downstream view, showing the topography of the tributary.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 11

Location: 36.529330, -96.411325		
City: Hominy	County/Parish: Osage	State: Oklahoma



Photo File Name: R0010224

Orientation: NA

Date of Photo: 5/24/2023

Time of Photo: 5:45 PM

Latitude: 36.530396

Longitude: -96.408245

Photographer: Jeanne Eckhart

Description: This was an elevated TDS field reading of 1,315 mg/L taken downstream from the POE along the main channel of the impacted tributary.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 12

Location: 36.529330, -96.411325		
City: Hominy	County/Parish: Osage	State: Oklahoma



Photo File Name: R0010225

Orientation: W

Date of Photo: 5/24/2023

Time of Photo: 5:45 PM

Latitude: 36.530396

Longitude: -96.408245

Photographer: Jeanne Eckhart

Description: This was a photo taken from the same location as Photo No. 11. This was a view looking W or upstream showing the bed and bank features of the impacted tributary.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 13

Location: 36.529330, -96.411325		
City: Hominy	County/Parish: Osage	State: Oklahoma



Photo File Name: R0010226

Orientation: NW

Date of Photo: 5/24/2023

Time of Photo: 5:45 PM

Latitude: 36.530396

Longitude: -96.408245

Photographer: Jeanne Eckhart

Description: This was a photo taken from the same location as Photo No. 11 and 12. This was a view looking NW across the tributary showing the inactive transfer pump.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 14

Location: 36.529330, -96.411325		
City: Hominy	County/Parish: Osage	State: Oklahoma



Photo File Name: R0010227

Orientation: NE

Date of Photo: 5/24/2023

Time of Photo: 5:45 PM

Latitude: 36.530396

Longitude: -96.408245

Photographer: Jeanne Eckhart

Description: This was a photo taken from the same location as Photos No. 11, 12, and 13. This was a view looking NE or downstream showing the bed and bank features of the impacted tributary.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 15

Location: 36.529330, -96.411325		
City: Hominy	County/Parish: Osage	State: Oklahoma



Photo File Name: R0010228

Orientation: NA

Date of Photo: 5/24/2023

Time of Photo: 5:55 PM

Latitude: 36.5312461

Longitude: -96.403969

Photographer: Jeanne Eckhart

Description: This was a below background TDS field reading of 712 mg/L taken in the lowermost pool of the impacted tributary. This field reading was taken in the pool of water immediately upstream from the lower, temporary containment dam which had been placed by the operator to prevent further downstream migration of impacted waters.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 16

Location: 36.529330, -96.411325		
City: Hominy	County/Parish: Osage	State: Oklahoma



Photo File Name: R0010229

Orientation: W

Date of Photo: 5/24/2023

Time of Photo: 5:56 PM

Latitude: 36.5312461

Longitude: -96.403969

Photographer: Jeanne Eckhart

Description: This was a photo taken from the same location as photo No. 15. This was the lowermost pool of water immediately upstream from the lower, temporary containment dam which had been placed by the operator to prevent further downstream migration of impacted waters. The vacuum truck loading hose in the photo was not operating at the time of inspection.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 17

Location: 36.529330, -96.411325		
City: Hominy	County/Parish: Osage	State: Oklahoma



Photo File Name: R0010230

Orientation: NE

Date of Photo: 5/24/2023

Time of Photo: 5:56 PM

Latitude: 36.531594

Longitude: 96.403942

Photographer: Jeanne Eckhart

Description: This was a photo taken from the same location as photo No. 15 and 16. This is a downstream view toward the east. I did not observe spill impacts at any point downstream from the temporary containment dam at the time of the inspection.