Couvillion Group, LLC

MC 20 Hydrocarbon Pump-Off #7 Results Report

Document #: Couv-MC20-O&M-RPT-DOC-00018

9/30/2019

Revision	Date	By	Check	Approve	Remarks
0	9/30/19	[redacted]			Initial Document

Summary:

Couvillion Group's Rapid Response Collection System initiated its seventh collection cycle on 8/18/19 and completed the cycle on 9/12/19 resulting in a collection duration of 25.8 days. Using the OSV Chloe Candies the collected hydrocarbon fluid recovered from the subsea oil containment vessels was taken to the Couvillion Dock in Venice, Louisiana. Dockside Transfer commenced on 9/14/2019, with 880.4 bbl of hydrocarbon fluids transferred to an onshore frac tank. Over the next 9-day period water separated from the oil and was collected in the bottom of the frac tank. On the morning of 9/23/2019 Couvillion Group reconfirmed that 880.4 bbl of hydrocarbon fluids remained in the tanks via strap measurements. After a decant of 41.3 bbl, a total of 768.3 bbl of fluid was transferred from the Venice Yard to the Acadiana Oil Company in Berwick, Louisiana using six tank trucks. A total of 55.3 bbl of residual fluid remained in the frac tank. Total fluids reconciliation was within –1.8%.

After measuring the BS&W content and taking specific gravity and temperature into account at the Acadiana Oil Company site, the net crude oil collected during this collection cycle was 749 bbl.

Procedures Followed:

Couvillion Group and the associated companies participating in the collection and transportation of hydrocarbon fluids from the MC-20 site to the Acadiana Oil Company site have compiled a set of procedures that are followed throughout the process. The MC20 Response Disposal Plan with associated documentation pertaining to custody transfer and hydrocarbon fluids measurements for this report are in Appendix I. Appendix II includes the NRC waste handling documentation.

Execution:

Offshore Collection of Hydrocarbon Fluids at MC 20 Site:

The Chloe Candies OSV moved in place on location at MC20 on 9/11/2019 at 13:05 hrs. An as-found ROV survey was conducted prior to commencement of pump off operations. To begin pump off operations ROV's were launched and thereafter the hydraulic subsea pump and hoses were over boarded. The inlet hose to the hydraulic subsea pump was connected to the offload outlet on the subsea oil storage containers. Pumping commenced at 2230 hrs on 9/11/2019 and ended at 2230 on 9/21/19. Pump off 7 took longer than expected due to high currents that cause the operation to go down on weather watch from 0830 on 9/12/2019 to 1500 on 8/17/2019. Fluid was sampled on the vessel every 20 minutes for field analysis to determine the estimated oil to water ratios until water breakthrough occurred and collection operations were then stopped. **A total of 891.4 bbl of hydrocarbon fluid was collected according to the tank strap measurement taken offshore.** Upon pump off completion the hoses and pump were surfaced and flushed with saltwater that was sent to a filtration system for treatment and over boarding.

Vessel to Dockside Transfer

The Chloe Candies arrived at the Couvillion Dock in Venice, Louisiana on 9/14/2019. On the Morning of 9/15/2019 hoses were run from the tanks on the vessel through a diaphragm pump which was on a Couvillion provided barge and then run to 500 bbl frac tanks onshore. The pump-off process was begun and continued until

all MPT tanks aboard the OSV Chloe Candies were empty. Tankermen from Team Services verified that the MPT tanks onboard the vessel was empty and then an NRC representative strapped the dockside frac tank to determine **the total quantity transferred which was 880.4.** With dockside transfer complete, the fluid was allowed to settle out water from the oil over a period of 9 days before transfer of the oil from the frac tanks to tank trucks. On 9/20/2019 41.3 bbl of water that had separated from the oil in the frac tanks and was decanted then sent to a fourth frac tank. The fourth frac tank is used for residuals, decanted water, and tank bottoms, which will be processed and transferred to trucks for disposal and sale at a later time.

Dockside Frac Tanks to Truck Transfers

On the morning of 9/23/2019 at 06:30 hrs the first round of frac tanks to tank truck transfers commenced. An initial measurement was taken to verify that 880.4 bbl of hydrocarbon fluids remained in the tank. A hose was then attached to the frac tanks and ran through a diaphragm pump into a tank truck. Pumping commenced and the first truck received 138.0 bbl of hydrocarbon fluids. The second tank truck was loaded with 144.3 bbl. The third truck was loaded with 142.6. The second day of frac tank to tank truck transfers began on 9/24/2019 at 06:30. The first truck was loaded with 144.4 bbl, the second truck was loaded with 143.7 The third truck was loaded with 55.3 bbl. At this time an NRC representative and a Couvillion Representative double checked all strap measurements in the trucks, and residual left in the frac tank (55.3 bbl). All residuals and decanted water from pump off 6 and 7 have been stored in a 4th frac tank which has a total of 205.1 bbl of hydrocarbon fluids. This tank is used to allow for oil and water to separate to aid in efforts to keep water content to a minimum at the Acadiana Oil Company. All values were recorded in the appropriate forms in the MC-20 Response Disposal Plan (see report Appendix I). Trucks were then released and began transport to the Acadiana Oil Company site in Berwick, Louisiana.

Truck to Facility Transfer

Upon arrival at the Acadiana Oil Company site each truck enters a loading bay. Before any fluids are transferred an Acadiana Oil Representative straps their tank for an initial measurement and then transfer of fluid begins. While the pump off is underway an Acadiana Oil Company Representative takes three fluid samples during the transfer process from the pump outlet from which hydrocarbon fluid is flowing. These samples are taken at the beginning of the transfer, mid-way through the transfer, and at the end of the transfer process. In other words when the tank truck volume is full, half-full and nearly empty. These readings are referred to as top, middle and bottom readings, respectively. These (3) samples are mixed together and then shaken vigorously to ensure a full mixture. The sample is then taken to their testing area where tests are run to determine: % BS&W content, temperature, and specific gravity. Temperature and specific gravity are recorded via the use of a hydrometer, while BS&W content is determined via the use of a centrifuge with a 50/50 mixture of the sample with mineral spirits. Once all sampling is completed and recorded (see copy in Appendix I) the Acadiana Oil Company Representative again straps their tank in order to obtain a post transfer level. The gross fluids that are recorded is determined by subtracting the initial pump off tank strap level from the post transfer tank strap level. This gross fluid value is corrected for temperature, specific gravity and BS&W content to determine the net oil value that is recorded. This process is repeated for each truck offload.

Summary Tally and Running Totals:

The tables below show an oil tally, a total fluid reconciliation and a flow rate calculation. In total 880.4 bbl of hydrocarbon fluid was transferred from the Chloe Candies into an onshore frac tank. Tank trucks transported 768.3 bbl to the Acadiana Oil Company site which netted out 749.2 bbl of crude oil. From a total fluid reconciliation standpoint measurement at different site locations were within -1.8%. The calculated flow rate during the 25.8-day collection cycle offshore was 29 bbl/day or 1219.6 gallon/day. **As of the end of this pump off campaign 168210 gallons of salvaged crude oil has been contained from the MC-20 site.**

Oil Tally

					Truck 1				Truck 2				Truck 3				Truck 4					Running
Oil Tally	Date	Total Fluid Transfer by Cypress (bbl)	Total Fluid Frac Tank Strap by NRC (bbl)	% Diff	Total Fluids to Acadiana NRC Frac Strap (bbl)	Total Fluid at Acadiana by strap (bbl)	% Diff	Net Oil (bbl)	Total Fluids to Acadiana NRC Frac Strap (bbl)	Total Fluid at Acadiana by strap (bbl)	% Diff	Net Oil (bbl)	Total Fluids to Acadiana NRC Frac Strap (bbl)	Total Fluid at Acadiana by strap (bbl)	% Diff	Net Oil (bbl)	Total Fluids to Acadiana NRC Frac Strap (bbl)	Total Fluid at Acadiana by strap (bbl)	% Diff	Net Oil (bbl)	Total Net Oil (bbl)	Total Net Oil (bbl)
Pump Off #1	4/26/2019	220.0	215.7	-2.0																		
	5/6/2019				113.7	110.0	3.3	108.8	97.0	87.4	9.9	78.6									187.4	187.4
Pump Off #2	5/3/2019	246.3	223.5	-10.2																		
	5/8/2019				101.3	102.0	-0.7	99.7	82.8	83.8	-1.2	81.9									181.6	369.0
Pump Off #3	5/13/2019	335.0	331.2	-1.1																		
	5/16/2019				103.2	89.1	13.7	82.9	126.4	136.4	-7.9	132.1	108.5	99.5	8.3	80.7					295.7	664.8
Pump Off #4	6/19/2019	901.7	905.5	0.4	139.4	145.8	-4.6	143.0	138.7	139.4	-0.5	137.4										
	6/20/2019				137.7	136.2	1.1	113.0	140.7	141.4	-0.5	139.4	140.6	141.4	-0.6	134.2	144.1	141.4	1.9	138.4		
	6/21/2019				48.5	47.1	2.8	44.6													850.0	1514.8
Pump Off #5	7/31/2019	1200.2	1196.6	-0.3	139.2	138.3	0.6	133.7	142.7	150.0	-5.1	146.5										
	8/1/2019				139.1	145.7	-4.7	135.1	140.7	138.4	1.6	131.9	146	142.0	2.7	81.3	138	142.0	-2.9	140.0		
	8/2/2019				99.8	112.9	-13.1	111.0	101.1	105.6	-4.5	104.2									983.7	2498.5
Pump Off #6	8/26/2019	848.0	874.6	3.0	141.7	138.4	2.3	134.6	140.3	145.7	-3.8	140.6	141.5	145.7	3.0	143.2						
	8/27/2019				140.5	138.4	1.5	135.5	137.2	142.0	-3.5	139.1	61.3	65.6	-7.0	64.2						
																					757.2	3255.7
Pump Off #7	9/23/2019	891.9	880.4	-1.3	138	134.68	2.4	132.4	144.3	151.8	-5.2	148.9	142.6	142	0.4	139.7						
	9/24/2019				144.4	142	1.7	139.1	143.7	138.4	3.7	135.5	55.3	54.6	1.3	53.7					749	4005.0

Total Fluid Reconciliation

				Truck 1	Truck 2	Truck 3	Truck 4			
	Date	Total Fluid Frac Tank Strap at Venice by NRC (bbl)	Water Decanted From Frac Tank Using Strap Measurement (bbl)	Total Fluids to Acadiana NRC Frac Strap (bbl)	Total Fluids to Acadiana NRC Frac Strap (bbl)	Total Fluids to Acadiana NRC Frac Strap (bbl)	Total Fluids to Acadiana NRC Frac Strap (bbl)	Residual left in Frac Tanks (bbl)	Total of Fluid From Trucks, Residual & Decant (bbl)	% Diff
Pump Off #1	4/26/2019	215.7	0.0							
	5/6/2019			113.7	97.0	0.0	0.0	5.2	215.9	0.1
Pump Off #2	5/3/2019	223.5	15.6							
	5/8/2019			101.3	82.8	0	0	17.6	217.3	-2.8
Pump Off #3	5/13/2019	331.2	0.0							
	5/16/2019			103.2	126.4	108.5	0	16.2	354.3	-1.6
Pump Off #4	6/19/2019	905.5	32.5	139.4	138.7	0.0	0.0		310.6	
	6/20/2019			137.7	140.7	140.6	144.1		563.1	
	6/21/2019			48.5	0	0	0	0.6	49.1	
	PO4: Total								922.8	-1.8
Pump Off #5	7/31/2019	1196.6	96.3	139.2	142.7				281.9	
	8/1/2019			139.1	140.7	146	138		563.8	
	8/2/2019			99.8	101			45.2	246.0	-0.7
	PO5: Total								1188.0	
Pump Off #6	8/26/2019	874.6	56.8	141.7	140.3	141.5			480.3	
	8/27/2019			140.5	137.2	61.3		57.9	396.9	
	PO6: Total								877.2	0.3
Pump Off #7	9/23/2019	880.4	41.3	138	144.3	142.6			466.2	
	9/24/2019			144.4	143.7	55.3		55.3	398.7	
									864.9	-1.8

Barrels of Oil Collected Daily

	Start Date	Start Time (hrs)	End Date	End Time (hrs)	Total Collection Duration (Days)	Net Oil Collected (bbl)	RRS Collection Rate Of Oil (bbl/day)	Collection Rate of Oil (gallon/day)
Collection Duration for 1st Trip	4/12/2019	0:00	4/23/2019	1:05	11.0	187.4	17.0	715.7 gallons/day
Collection Duration for 2nd Trip	4/23/2019	1:05	4/30/2019	21:09	7.9	181.6	23.0	965.6 gallons/day
Collection Duration for 3rd Trip	4/30/2019	21:09	5/12/2019	23:20	12.1	295.7	24.4	1,026.5 gallons/day
Collection Duration for 4th Trip	5/12/2019	23:20	6/13/2019	17:17	31.5	850.0	27.0	1132.3 gallons/day
Collection Duration for 5th Trip	6/13/2019	17:17	7/21/2019	1:40	37.4	983.7	26.3	1104.7 gallons/day
Collection Duration for 6th Trip	7/21/2019	1:40	8/18/2019	3:15	28.6	757.2	26.5	1112.0 gallons/day
Collection Duration for 7th Trip	8/18/2019	3:15	9/12/2019	22:30	25.8	749.2	29.0	1219.6 gallons/day

Totals:

	Bbl	Gal
Net Oil collected"	4005.0	168210
Total Oily fluids collected in:	4627.5	194353.3

Appendix 1

MC20 Product Removal and Transportation with Completed Documentation

Phase #2 Pumping #4

United States Coast Guard

COUVILLION
Couvillion Group, LLC

Attachment A: Dockside Transfer – Transfer of Liquid and Crude Oil in Accordance with Maintenance

Date: 09/14/2019

Time Transfer Ended: 1845

	Column A	Column B	Column C	Column D	Column E
	Residual Tank Volume From Prior Operation (bbl)	On Board the Vessel Tank Strap Measurement Prior to Start of Offloading (bbl)	Onshore Frac Tank Strap Measurement after Offloading (bbl)	Volume of Fluid (Column C-A) (bbl)	% Difference Column (D-B)/D * 100
Tank 1	0	333.7	304.1		
Tank 2	0	235.2	272.8		
Tank 3	0	323.0	303.5		
Total	0	891.9	880.4	880.4	1.3%

Note: If the % Difference is greater than 3% please attempt to explain the difference: _____

Sign-off by:

USCG Rep Signed Name [redacted], Printed Name [redacted] Date: 9/14/2019

Couvillion Rep Signed Name [redacted], Printed Name [redacted] Date: 9/14/2019

Cypress Rep Signed Name [redacted], Printed Name [redacted] Date: 9/14/2019

NRC Rep Signed Name [redacted], Printed Name [redacted] Date: 9/14/2019

Phase #2 Pump Off #4

United States Coast Guard

COUVILLION

Couvillion Group, LLC

Attachment B: Venice Shore Base On-Site Interim Tank Storage Measurements Before Offloading to Tank Trucks (Decanting of Water)

Date: 9-20-19 **Time:** 05

Time Measurements begin after Vessel Offloading in hours: _____

	Column A Tank Strap from Offloading (Initially use Column C from Attach A and on subsequent decants use Column D from this form) bbl	Column B Today's Interim Tank Strap Measurement bbl	Column C Tank Strap Measurement after Decanting bbl	Column D Oily Water Mixture Volume Column (B-C) bbl
Tank 1	304.1	304.1	288.4	15.7
Tank 2	272.8	272.8	265.1	7.7
Tank 3	303.5	303.5	285.6	17.9
Total	880.4	880.4	839.1	41.3

Sign-off by: USCG Rep (optional) Signed Name: [redacted] Printed Name [redacted] Date: 9-23 19

Couvillion Rep Signed Name: [redacted] Printed Name [redacted] Date: 9-23 19

NRC Rep Signed Name: [redacted] Printed Name [redacted] Date: 9-23 19

Phase #2 Pump Off #4

United States Coast Guard

COUVILLION

Couvillion Group, LLC

Attachment C: WASTE MANAGEMENT TRACKING FORM

Oily Water Transportation and Net Crude Oil

Start Shipments Date: 9 23 -19

Manifest Number	Transporter	Truck Number	Date	Receiving Facility	Manifested Volume loaded from Venice Frac Tank into Truck (bbl from Strap)	Volume received by Buyer (bbl by Strap)	Net Crude Oil bbls (Acadiana Oil Ticket)
1	L+B	7573 Trailer 9980	9-23	AOC	139 bbl		
2	L+B	7584 90280	9-23	AOC	144.3		
3	L+B	7561 300483	9-23	AOC	142.6		
				Total Volumes Shipped by Gallons/bbls			

End of Shipments date: 9-23 19

Sign-off by: USCG Rep (Optional) Signed Nam[redacted], Printed Name[redacted] Date 9-23 19

Couvillion Rep Signed Name[redacted], Printed Name[redacted] Date: 9-23-19

NRC Rep Signed Name[redacted], Printed Name[redacted] Date 9-23-19

Phase #2 Pump off #4

United States Coast Guard

COUVILLION
Couvillion Group, LLC

Attachment C: WASTE MANAGEMENT TRACKING FORM
Residual Frac Tank Bottoms

Date: 09/23/2019

Residual Volume left in Tanks

		Strap Measurement after Trucks Loaded in each tank bbls
Truck	~~Tank~~ 1	295
Truck	~~Tank~~ 2	91
Truck	~~Tank~~ 3	285

Sign-off by: USCG Rep (Optional) Signed Nam [redacted] Printed Nam [redacted] Date 9-23 19

Couvillion Rep Signed Name [redacted] Printed Nam [redacted] Date: 9-23-19

NRC Rep Signed Name [redacted] Printed Nam [redacted] Date 9-23-19

Phase #2 Pump #4

United States Coast Guard

COUVILLION

Attachment C: WASTE MANAGEMENT TRACKING FORM

Oily Water Transportation and Net Crude Oil

Start Shipments Date: 9-24-19

Manifest Number	Transporter	Truck Number	Date	Receiving Facility	Manifested Volume loaded from Venice Frac Tank into Truck (bbl from Strap)	Volume received by Buyer (bbl by Strap)	Net Crude Oil bbls (Cleadiana Oil Ticket)
1	L+B	7573 3980	9/24	AOC	144.4		
2	L+B	7595 300230	9/24	AOC	143.7		
3	L+B	7560 300483	9/24	AOC	55.3		

Total Volume Shipped by Caillou Isle

End of Shipments date: 9-24-19

Sign-off by: USCG Rep (Optional) Signed Name [redacted] Printed Name [redacted] Date 245EA9

Couvillion Rep Signed Name [redacted] Printed Name [redacted] Date 9-24-19

NRC Rep Signed Name [redacted] Printed Name [redacted] Date 9-24-19

Phase #2 Pumpoff #4

United States Coast Guard

COUVILLION

Attachment C: WASTE MANAGEMENT TRACKING FORM
Residual Frac Tank Bottoms

Date: 9-24-19

Residual Volume left in Tanks

	Strap Measurement after Trucks Loaded in each tank bbls
Tank 1	21.7 bbl
Tank 2	16.9 bbl
Tank 3	16.8 bbl

Sign-off by: USCG Rep (Optional) Signed Name: [redacted] Printed Name: [redacted] Date: 24SEP19

Couvillion Rep Signed Name: [redacted] Printed Name: [redacted] Date: 9-24-19

NRC Rep Signed Name: [redacted] Printed Name: [redacted] Date: 9-24-19

Appendix II

NRC Waste Handling Documentation

Phase 2 Pump off #4

SAFETY MANAGEMENT SYSTEM

SAFETY

Form 8 1 7

Site Specific Safety Plan

Revision 08 019

Project Name MC20 Recovered Crude Oil Transfer

NRC PROJECT PERSONNEL AND EMERGENCY CONTACTS

Shore side NRC Project Manager	[redacted]
Director of Marine Ops	
Director of Operations	
NRC HSEQ Manager	
NRC HSEQ Director	
Hospital / Medical Interventio	Plaquemines Medical Center – Port Sulfur La (504) 564-3344

Date: 9/14/2019 **Start Time:** ____________ **Job Number:** 19-0192

☐ Land Emergency Response Marine Emergency Response ☐ Land Service ☐ Marine Service

SITE DESCRIPTION / WORK SUMMARY

The site is the Couvillion Dockside Facility located at 433 McDermott Rd., Venice, La.

NRC will facilitate removing recovered crude oil from the well located at MC20 project. The M/V Chloe Cam has been collecting crude oil from the location and storing it on Marine Portable Tanks (MPTs) located on her deck. The M/V Chloe Cam will be moored to the dock at the above location and transfer the recovered crude from the MPTs on deck to double walled frac tanks on the dockside.

Once the frac tanks on the Couvillion docks are ready for transfer the crude will then be transferred into bulk transport trailers to be sent to its final destination.

SCOPE OF WORK

The M/V CC will send a [illegible] section of [illegible] inch petroleum duty hose to the dock where it will be connected to the hoses leading to a properly rated and tested manifold. The manifold has one inlet and three outlets. Each outlet will be fitted with a 3 inch transfer hose and affixed to the frac tanks. Once the connections are secured and the declaration of inspection (DOI) is complete the M/V CC will transfer the crude oil in her tanks using a 4-inch pneumatic diaphragm pump. As the frac tanks near capacity the dockside operator will open the next manifold valve and close the active one. This process will continue until all three frac tanks are at capacity. Once the transfer is complete a [illegible] inch airline with the proper fitting will be given to the M/V's crew to send compressed air [illegible] to [illegible] any residual product left in the hoses to ensure no product is spilled when the hoses are disconnected.

After the crude oil sits in the frac tank at the Couvillion Dock for 12 to 24 hours the crude oil will be pumped using a 3-inch pneumatic diaphragm pump [illegible] into bulk trailers to be sent to final destination.

Project Name: MC20 Recovered Crude Oil Transfer

EQUIPMENT

- Air Compressor (One aboard the M V CC – One on Couvillion Properties
- 4 inch pneumatic diaphragm pumps
- Petroleum Duty transfer hoses rated and inspected accordingly
- Safety Clips for Cam lock connections and Chicago fittings
- Containment pans for diaphragm pumps and each hose connection (on the deck of the M V at the Dock)
- Sorbent pads / Polly to wrap around each hose connection as spill prevention
- Whip Checks for each air line connection coming from the air compressor
- Intrinsically safe handheld VHF radios (Means of Communication between PIC of vessel and PIC of dock

ATTACHMENTS

A	Safety Data Sheets	F	Diagram of dock layout
B	SMS 8.1.5 Dailly Safety Meeting form - Maritime		
C	SMS 13 2 Respiratory Protection		
D	Incident / Near Miss / RCA		
E	DOI		

SAFETY MANAGEMENT SYSTEM

SAFETY

Form 8 1 7

Site Specific Safety Plan

Revision 08/2019

Project Name MC20 Recovered Crude Oil Transfer

SAFETY PLAN APPROVAL

Site Safety Officer [redacted] Date 09/14/2019

ACKNOWLEDGMENTS (signed by all NRC site personnel)

I have read and understand the tasks outlined on all pages of this HASP and will follow all the required safety rules
**I am aware that I am to sign in at the beginning of the shift and sign out at the end of my shift on the Daily Safety Meeting for
I must notify the on site supervisor of any injury /accident/ near miss that I had or observed during my shift**
I understand that I have the right to stand down for Safety and report any potential hazards to the NRC Site Supervisor
After an injury accident near miss is reported the Site Supervisor must call the H & S Manager at

Date	Print Name	Signature
9/14/19	[redacted]	
9-14-19		
9-14-19		
9/14/19		
9/14/19		
9/14/19		
"	"	
"	"	
"	"	
"	"	
9-14-19		
"	"	
"		
9-14-19		
9-14-19		
9-14-19		
9-14-19		
9-14-19		

Hose #2 Pump off #4

Form 8.1.7	SAFETY MANAGEMENT SYSTEM Site Specific Safety Plan Project Name: MC20 Recovered Crude Oil Transfer	SAFETY Revision: 04/2019

NRC PROJECT PERSONNEL AND EMERGENCY CONTACTS

Shore side NRC Project Manager	[redacted]
Director of Marine Ops	
Director of Operations	
NRC HSEQ Manager	
NRC HSEQ Director	
Hospital / Medical Intervention	Plaquemines Medical Center – Port Sulfur, La (504)564-3344

Date: 09/23/2019 **Start Time:** 0700 **Job Number:** 19-0192

☐ Land Emergency Response ☐ Marine Emergency Response ☐ Land Service ☒ Marine Service

SITE DESCRIPTION / WORK SUMMARY

The site is the Couvillion Dockside Facility located at 433 McDermott Rd., Venice, La.

NRC will facilitate removing recovered crude oil from the well located at MC20 project. The M/V Chloe Candies has been collecting crude oil from the location and storing it on frac tanks located on her deck. The M/V Chloe Candies will be moored to the dock at the above location and transfer the recovered crude from the frac tanks on her deck to double walled frac tanks on the dockside.

Once the frac tanks on the Couvillion docks are ready for transfer the crude will then be transferred into bulk transporter trailers to be sent to its final destination.

SCOPE OF WORK

The M/V Chloe Candies will send a 100' section of 2-inch petroleum duty hose to the dock where it will be connected to the hoses leading to the double walled frac tanks on the dock. Once the connections are secured and the declaration of inspection (DOI) is complete, the M/V Chloe Candies will transfer the crude oil in her tanks using a 3-inch pneumatic diaphragm pump. Once the transfer is complete a 1-inch airline with the proper fitting will be given to the M/V's crew to send compressed air up the hose to "blow down" any residual product left in the hoses to ensure no product is spilled when the hoses are disconnected.

After the crude oil sits in the frac tank at the Couvillion Dock for 12 to 24 hours the crude oil will be pumped using a 3-inch pneumatic diaphragm pump to transport trailers to be sent to final destination.

#2 Pumpoll #4

Form 8 1 7

SAFETY MANAGEMENT SYSTEM

Site Specific Safety Plan

Revision 04/2019

Project Name MC20 Recovered Crude Oil Tra[illegible]r

SAFETY PLAN APPROVAL

Site Safety Officer [redacted] Date 09/23/2019

ACKNOWLEDGMENTS (signed by all NRC site personnel)

I have read and understand the topics outlined on all pages of th[illegible] and will follow all the required safety [illegible]s
**I am aware that I am to sign in at the beginning of the shift and sign out at the end of my shift on the Daily Safety M[illegible]g
I must notify the on site supervisor of any injury /accident near mi[illegible]s that I had or observed during my shift**
I understand that I have the right to stand down for Safety an[illegible] report any potential hazards to the NRC Site Supe[illegible]
After an injury/accident/near miss is reported the Site Supervisor must ca[illegible] H & S Manager at

Date	Print Name	Signature
09/23/2019	[redacted]	
09/23/19		
9/23/19		
9/23/19		
9-22-19		
9-22-19		

Phase 2 Pumpoff #4

Form 8 1.7	SAFETY MANAGEMENT SYSTEM	SAFETY
	Site Specific Safety Plan Project Name: MC20 Recovered Crude Oil Transfer	Revision: 04/2019

NRC PROJECT PERSONNEL AND EMERGENCY CONTACTS:	
Shore side NRC Project Manager	[redacted]
Director of Marine Ops	
Director of Operations	
NRC HSEQ Manager	
NRC HSEQ Director	
Hospital / Medical Intervention	Plaquemines Medical Center – Port Sulfur, La (504)564-3344

Date: 09/24/2019	Start Time: 0700	Job Number: 19-0192

☐ Land Emergency Response ☐ Marine Emergency Response ☐ Land Service ☒ Marine Service

SITE DESCRIPTION / WORK SUMMARY

The site is the Couvillion Dockside Facility located at 433 McDermott Rd., Venice, La.

NRC will facilitate removing recovered crude oil from the well located at MC20 project. The M/V Chloe Candies has been collecting crude oil from the location and storing it on frac tanks located on her deck. The M/V Chloe Candies will be moored to the dock at the above location and transfer the recovered crude from the frac tanks on her deck to double walled frac tanks on the dockside.

Once the frac tanks on the Couvillion docks are ready for transfer the crude will then be transferred into bulk transporter trailers to be sent to its final destination.

SCOPE OF WORK

The M/V Chloe Candies will send a 100' section of 2-inch petroleum duty hose to the dock where it will be connected to the hoses leading to the double walled frac tanks on the dock. Once the connections are secured and the declaration of inspection (DOI) is complete, the M/V Chloe Candies will transfer the crude oil in her tanks using a 3-inch pneumatic diaphragm pump. Once the transfer is complete a 1-inch airline with the proper fitting will be given to the M/V's crew to send compressed air up the hose to "blow down" any residual product left in the hoses to ensure no product is spilled when the hoses are disconnected.

After the crude oil sits in the frac tank at the Couvillion Dock for 12 to 24 hours the crude oil will be pumped using a 3-inch pneumatic diaphragm pump to transport trailers to be sent to final destination

Phase 2 Run off #4

Form 8 1 7

SAFETY MANAGEMENT SYSTEM

Site Specific Safety Plan

SAFETY

Project Name MC20 Recovered Crude O Transf

Revision 04/2019

[redacted] AFETY PLAN APPROVAL

Site Safety Officer [redacted] Date 09/24/19

ACKNOWLEDGMENTS (signed by all NRC site personnel)

I have read and understand the topics outlined on al pages of this HASP and will follow all the requi ed safety ru es
**I am aware that I am to sign in at the beginning of the shift and sign out at the end of my shift on the Dai y Safety Meet ng f
I must notify the on site supervisor of any injury /accident/ near miss that I had or observed during my shift**
I understand that I have the right to stand down for Safety and report any potential hazards to the NRC S te Superv s
After an injury/accident/near miss is reported, the Site Supervisor must call the H & S Manager at

Date	Print Name	Signature
9/24/19	[redacted]	
9/24/19		
9/24/19		
9/24/19		
9 2 1-		
9 24 19		

Phase 2
Pump off Eq

DECLARATION OF INSPECTION

LOCATION & NAME OF FACILITY: Venice, La. Cavillion Dock — DATE TRANSFER OPERATIONS STARTS: 09/14/2019

NAME OF VESSEL: Chloe Cavalles

An oil transfer operation may not commence to or from a vessel unless the following requirements are met and agreed upon by the respective transferring and receiving persons in charge.
Persons in charge indicate by a check (√), in the appropriate spaces, that the specific requirement has been met.

VESSEL		FACILITY
✓	A. The mooring lines are adequate for all anticipated conditions.	TM
✓	B. Cargo hoses and or loading arms are long enough for intended use.	TM
✓	C. Cargo hoses are adequately supported to prevent undue strain on the couplings	TM
✓	D. The transfer system is properly lined up for discharging or receiving oil. (Additional checks shall be performed each time a valve is repositioned.)	TM
✓	E. Each flange connection on the cargo system not being used during the transfer operation is blanked or shut off.	TM
✓	F. The cargo hoses and or loading arms are connected to the manifolds using gaskets and a bolt in every other hole. (minimum of 4 bolts). Exception: Tanks without fixed loading systems per waiver from the Captain of the Port	TM
✓	G. The overboard or sea suction valves are sealed or lashed in the closed position.	TM
✓	H. Adequate spill containments have been provided for couplings.	TM
✓	I. All scuppers or other overboard drains are closed or plugged.	TM
✓	J. A communications system is provided between the facility and the vessel.	TM
✓	K. Emergency shutdown system is available and operable.	TM
✓	L. Communication procedures are established and understood between persons in charge.	TM
✓	M. Qualified and designated personnel are in charge and on duty at the terminal and vessel control stations.	TM
✓	N. One person at the vessel control station is present who fluently speaks the language of the terminal control station.	TM
✓	O. The owner of the cargo hoses will insure test requirements have been met and that the hose has no loose covers, kinks, bulges, soft spots or gouges, cuts and slashes which penetrate the hose reinforcement and that hoses are marked for identification and test data is maintained in a test log.	TM
✓	P. Adequate lighting of the vessel and terminal work areas and manifold areas is provided.	TM
✓	Q. Persons in charge have held a conference to assure the mutual understanding of the following transfer operations	
✓	1. Product identity to be transferred.	TM
✓	2. Sequence of transfer operation.	TM
✓	3. Transfer rate of flow	TM
✓	4. Name or title and location of each person participating in the transfer operation	TM
✓	5. Particulars of the transferring and receiving systems	TM
✓	6. Starting, stripping, topping and shutdown have been discussed and understood	TM
✓	7. Emergency procedures including notification, containment and cleanup of spills	TM
✓	8. Watch and shift arrangements	TM
✓	9. Notification before leaving stations	TM

The following items are to be filled out by Vessel personnel only.

✓	1. Warning signs and read warning signals (35.35-30).
✓	2. Repair work authorization (35.35-30)
✓	3. Boiler and galley fires safety (35.35-30).
✓	4. Fires or open flames (35.35-30).
✓	5. Safe smoking space (35.35-30).

I certify that I have read, understand and agree with the foregoing as marked and agree to begin continue the transfer operation

PERSON IN CHARGE OF VESSEL	Time	Date	PERSON IN CHARGE OF FACILITY	Time	Date
[redacted]	1015	9/14/2019	[redacted]	1020	9/14/2019

The operator of each facility and the operator of each vessel shall retain a signed copy for at least a month

COUVILLION *DECLARATION OF INSPECTION - DOI* 2019

DECLARATION OF INSPECTION PRIOR TO BULK CARGO TRANSFER

Date: 5-14-19	**Location:** Couvillion Venice La		
Facility/Vehicle Number:		**Start Time**	**End Time**
Vessel Name: Chloe Cendres		1030	1845
Vessel Official Number:	**Vessel Capacity** (Total) (bbls):		
Product Transferred: Crude oil	***Est.* Transfer Volume** (bbls):		

Note For Emergency Notification Discharge amounts (Gallons):

Average most probable:

Maximum most probable:

Worst case discharge:

The following list refers to requirements set forth in detail in 33 CFR 156.150 and 46 CFR 35.35-30.

- The spaces on the left are to be reviewed by ALL PIC's involved in the transfer and checked in agreement.
- The right hand columns are to be initialed by the appropriate PIC and/or noted as not applicable with (N/A).
- Items on the list are provided to indicate that the detailed requirements have been met

☑	*TOPIC*	PIC Delivering	PIC Receiving
	Verify PIC designation/qualification 33 CFR 154 710, 154 730, 154 740(b)	TS	TM
	Person In Charge (PIC): In Immediate Vicinity and Available	TS	TM
	Personnel: Capable/Unimpaired	TS	TM
	Name, title and location of each person participating in the transfer operation	TS	TM
	MC 20 Subsea Storage Offloading Operations & Maintenance Manual present with procedures and particulars of the transfer and receiving systems to be followed and verified with key personnel involved in these operations	TS	TM
	Watch and shift arrangements discussed	TS	TM
	Cargo is Authorized for transfer *to* or *from* tanks	TS	TM
	Discuss if transfer will need to stopped to change tanks – *supply or receiving facility*	TS	TM
	Discuss transfer rates and max allowable to receiving facility	TS	TM
	(Facility/Vessel) properly vented (monitoring vacuum and positive tanks pressure)	TS	TM
	Communications & No Language Barrier	TS	TM
§ Hoses and Connection - 33CFR 154.500			
	Nonmetallic hoses usable for oil or hazardous material service	TS	TM
	Proper connections (must be one of the following)	TS	TM
	Fusion 100 hammer union connections	TS	TM
	Quick-disconnect coupling present on suction side of pump	TS	TM
	Examine transfer hose markings or records	TS	TM
	Name of product handled, example "OIL SERVICE," or "HAZMAT SERVICE"	TS	TM
§ Examine Transfer Hose condition - 33CFR 156.170			
	No unrepaired kinks, bulges, soft spots, loose covers, other defects	TS	TM
	No cuts, slashes, or gouges that penetrate the first layer of hose reinforcement	TS	TM
	No external/internal deterioration	TS	TM
§ Emergency shutdown - 33CFR 156.170			
	Test emergency shutdown - 33CFR 154.550 - who controls the emergency shutdown	TS	TM
	Communication system continuously operated	TS	TM
	Verify operating properly (Electric, pneumatic, or mechanical link to facility, electronic voice)	TS	TM
	Record test info in physical information.	TS	TM
§ Examine closure device - 33CFR 154.520			
	Verify enough to blank off ends of each hose /loading arm not connected for transfer	TS	TM
§ Inspect Small Discharge Containment - 33CFR 154.530			
	Inspect handling area and verify capacity (not less than 5 gallons)	TS	TM

COUVILLION **DECLARATION OF INSPECTION - DOI** 2019

Pre-Transfer Conference and Agreement (Continued)

☑	TOPIC	PIC Delivering	PIC Receiving
§	**Inspect discharge containment equipment for oil & hazardous liquids - 33CFR 154.545**		
	Verify booming for oil or hazmat transfer (if required by COTP)	TS	TM
	Verify adequate amount of equipment and or absorbent material for initial response	TS	TM
	Inspect condition of response equipment stored on facility (if applicable)	TS	TM
	Verify availability of at least 200 feet of containment boom onsite within 1 hour	TS	TM
	Verify means of deployment	TS	TM
§	**Means of Communication - 33 CFR 154.560**		
	Verify continuous two-way voice communication between vessel and facility PICs	TS	TM
	Communications must meet the following requirements...		
	Portable Radio:		
	IF Flammable or Combustible Liquids	TS	TM
	1. Marked or documented as intrinsically safe	TS	TM
	2. Certified as intrinsically safe by national testing labor certification organization.	TS	TM
	Voice		
	1. Be audible.	TS	TM
	Test communications SAT ☐ UNSAT ☐	TS	TM
§	**Inspect lighting systems - 33 CFR 154.570**		
	Verify portable lighting for operations between sunrise and sunset *(if applicable)*	TS	TM
	At transfer operations work areas for facility and vessel	TS	TM
	At transfer connection points for facility and vessel	TS	TM
	Verify sufficient number or fire extinguishers	TS	TM
	Verify protective equipment is ready to operate	TS	TM
	Verify warning signs are adequate.	TS	TM
	§ VESSEL ONLY - 155.730 Compliance with VESSEL TRANSFER PROCEDURES §		
	PIC for vessel operator is required by §155.720 to have current transfer procedures		TS
	Require vessel personnel to use the transfer procedures for each transfer operation		TS
	Available for inspection by the COTP or OCMI whenever the vessel is in operation		TS
	Legibly printed language(s) understood by personnel engaged in transfer operation		TS
	Permanently posted or available and used by members of crew engaged in transfer operation		TS
	Appropriate tank level monitoring (visual, gauging, indicators, etc.)		TS
	Arrangements to monitor draft marks during transfer		TS
	Transfer Piping Line diagram, location of each valve, pump, control device, vent, and overflow		TS
	Shutoff valve location or isolation device separating bilge or ballast from the transfer system		TS
	Adequate containment on the vessel at loading or discharge connection		TS
	Drains, Scuppers and overboard discharges closed		TS
	The number of persons required to be on duty during transfer operations.		TS
	Procedures for emptying discharge containment system required by §§155.310 and 155.320		TS
	Procedures for tending the vessel's moorings during the transfer of oil or hazardous material		TS
	Procedures for emergency shutdown/communications required by §§155.780 and 155.785		TS
	Procedures for topping off tanks		TS
	Procedures ensuring all valves used during transfer are closed upon completion of transfer		TS

I do certify that I have personally inspected this facility or vessel with reference to the requirements aforementioned and that I have indicated that the regulations have been complied with if applicable.

[redacted]		9-14-19 DATE	1030 TIME
PIC RECEIVING NAME		9/14/19 DATE	1030 TIME
TRANSFER COMPLETED:	8804 Bbls AMOUNT (GALLONS)	9-14-19 DATE	1845 TIME

ACADIANA OIL & ENVIRONMENTAL CORPORATION

P. O. Box 9088 • New Iberia, LA 70562
337-560-5573

TRANSPORT MANIFEST

Lease Run Ticket

14360

Date 9/23 20 19

Operator Comilleu Lease No. C G

Lease Name Truck # 1

Field

GAUGE	OIL LEVEL FEET	OIL LEVEL INCHES		BS&W LEVEL FT.	BS&W LEVEL INCHES	TANK TEMP
1st	06	08	3/8			
2nd	07	01				

TANK NO.	SIZE	EST GROSS GALLONS @ °F
6200L	12,500	

SERIAL NUMBERS

OLD

NEW

OBSERVED GRAVITY 29 @ 87 °F

PERCENT BS & W 4/10 %

TEMPERATURE OF OIL IN TANK °F

LOG NUMBER

TIME ARRIVED AM PM

TIME DEPARTED AM PM

DELIVERY STATION Bennett

OFFICE USE ONLY

GRAVITY CORR TO 60 °F	
1st	
2nd	
GROSS BARRELS	134.68
X FACTOR	.9827
NET BBLS PER RUN TIC	132.35

TEMP FACTOR	X	BS & W FACTOR	X FACTOR
.9887		.9940	.9827

GROSS	OPEN	[redacted]
TARE		
NET	CLOSE	DRIVER
		OPERATOR'S WITNESS

PROPER SHIPPING NAME	HAZARD CLASS		I.D. NUMBER	TOTAL QUANTITY
PETROLEUM CRUDE OIL	III	3	UN 1267	132.33 BBLS
BS&W				.81
Temp. Deductio-				1.52

"THIS IS TO CERTIFY THAT THE ABOVE NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED, AND LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION, ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION".

ACADIANA OIL & ENVIRONMENTAL CORPORATION

P.O. Box 9088 • New Iberia, LA 70562
337-560-5573

TRANSPORT MANIFEST

Lease Run Ticket

14361

Date 9-23 20 19

Operator Courtlan Lease No C G

Lease Name Truck #2

Field

GAUGE	OIL LEVEL FEET	OIL LEVEL INCHES			BS&W LEVEL FT	BS&W LEVEL INCHES	TANK TEMP		
1st	0	7	0	1					
2nd	0	7	0	6					

TANK NO	SIZE	EST GROSS GALLONS @ °F
62006	12,500	

SERIAL NUMBERS

OLD

NEW

OBSERVED GRAVITY 30 @ 92 °F

PERCENT BS & W 4/10 %

TEMPERATURE OF OIL IN TANK °F

LOG NUMBER

TIME ARRIVED AM PM

TIME DEPARTED AM PM

DELIVERY STATION Bennick

TEMP FACTOR		BS & W FACTOR		X FACTOR
.9865	x	.9940	=	9805

OFFICE USE ONLY

GRAVITY CORR TO 60 °F	
1st	
2nd	
GROSS BARRELS	151.89
X FACTOR	.9805
NET BBLS PER RUN TIC	148.9

	OPEN	CLOSE
GROSS	DR [redacted]	
TARE	OP	
NET	GR	OPERATOR'S WITNESS

PROPER SHIPPING NAME	HAZARD CLASS		I.D. NUMBER	TOTAL QUANTITY
PETROLEUM CRUDE OIL	III	3	UN 1267	148.9 BBLS
BS&W				.92
Temp. Deduction				2.06

"THIS IS TO CERTIFY THAT THE ABOVE NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED, AND LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION, ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION".

ACADIANA OIL & ENVIRONMENTAL CORPORATION

P. O. Box 9088 • New Iberia, LA 70562
337-560-5573

TRANSPORT MANIFEST

Lease Run Ticket

14362

Date 9-23 20 19

Operator Comilla Lease No C G

Lease Name Truck # 3

Field

GAUGE	OIL LEVEL FEET	OIL LEVEL INCHES	
1st	07	06	1/4
2nd	07	11	1/8

BS&W LEVEL FT	BS&W LEVEL INCHES	TANK TEMP

TANK NO. 62006 SIZE 12,500

EST GROSS GALLONS @ °F

SERIAL NUMBERS

OLD

NEW

OBSERVED GRAVITY 30 @ 90 °F

PERCENT BS & W 4/10 %

TEMPERATURE OF OIL IN TANK °F

LOG NUMBER

TIME ARRIVED AM PM

TIME DEPARTED AM PM

DELIVERY STATION Berwick

OFFICE USE ONLY

GRAVITY CORR TO 60 °F

1st

2nd

GROSS BARRELS 142.04

X FACTOR .9834

NET BBLS PER RUN TIC 139.67

TEMP. FACTOR	X	BS & W FACTOR	=	X FACTOR
.9873		.9960		.9834

GROSS

TARE

NET

OPEN

CLOSE

DRIVER [redacted]

DRIVER

OPERATOR'S WITNESS

PROPER SHIPPING NAME	HAZARD CLASS		I.D. NUMBER	TOTAL QUANTITY
PETROLEUM CRUDE OIL	III	3	UN 1267	139.67 BBLS
BS&W				.57
Temp. Deduction				1.8

"THIS IS TO CERTIFY THAT THE ABOVE NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED, AND LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION, ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION".

ACADIANA OIL & ENVIRONMENTAL CORPORATION

P. O. Box 9088 • New Iberia, LA 70562
337-560-5573

TRANSPORT MANIFEST

Lease Run Ticket

14367

Date 9-24 20 19

Operator Carrillion Lease No C G

Lease Name Truck #4

Field

GAUGE	OIL LEVEL FEET	OIL LEVEL INCHES		BS&W LEVEL FT	BS&W LEVEL INCHES	TANK TEMP
1st	0 9	0 5	8			
2nd	0 9	1 0				

TANK NO	SIZE	EST GROSS GALLONS @ °F
6 2 0 0 6	12,500	

SERIAL NUMBERS

OLD

NEW

OBSERVED GRAVITY 30 @ 94 °F

PERCENT BS & W 4/10 %

TEMPERATURE OF OIL IN TANK °F

LOG NUMBER

TIME ARRIVED AM PM

TIME DEPARTED AM PM

DELIVERY STATION

TEMP FACTOR	X	BS & W FACTOR	=	X FACTOR
.9856		.9940		.9797

OFFICE USE ONLY

GRAVITY CORR TO 60 F	
1st	
2nd	
GROSS BARRELS	142.03
X FACTOR	.9797
NET BBLS PER RUN TIC	139.14

GROSS	OPEN	D[redacted]
TARE		Or
NET	CLOSE	DR 0
		OPERATOR'S WITNESS

PROPER SHIPPING NAME	HAZARD CLASS		I.D. NUMBER	TOTAL QUANTITY
PETROLEUM CRUDE OIL	III	3	UN 1267	139.14 BBLS
BS&W				.96
Temp. Deduction				2.03

"THIS IS TO CERTIFY THAT THE ABOVE NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED, AND LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION, ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION".

ACADIANA OIL & ENVIRONMENTAL CORPORATION
P O Box 9088 • New Iberia, LA 70562
337-560-5573

TRANSPORT MANIFEST
Lease Run Ticket
14368

Date 9-24 20 19

Operator Convillion Lease No C G

Lease Name

Field

GAUGE	OIL LEVEL FEET	OIL LEVEL INCHES	
1st	09	10	
2nd	10	02	3/4

BS&W LEVEL FT	BS&W LEVEL INCHES	TANK TEMP

TANK NO. 6206 SIZE 12,500

EST GROSS GALLONS @ °F

SERIAL NUMBERS
OLD
NEW

OBSERVED GRAVITY 29 @ 96 °F

PERCENT BS & W 1/10 %

TEMPERATURE OF OIL IN TANK °F

LOG NUMBER

TIME ARRIVED AM PM

TIME DEPARTED AM PM

DELIVERY STATION Berwick

OFFICE USE ONLY

GRAVITY CORR TO 60 °F	
1st	
2nd	
GROSS BARRELS	139.39
X FACTOR	.9789
NET BBLS PER RUN TIC	135.48

TEMP FACTOR	x	BS & W FACTOR	=	X FACTOR
.9849		.9940		9789

GROSS
TARE
NET

OPEN [redacted]
DRIVER
CLOSE
OPERATOR'S WITNESS

PROPER SHIPPING NAME	HAZARD CLASS		I.D. NUMBER	TOTAL QUANTITY
PETROLEUM CRUDE OIL	III	3	UN 1267	135.48 BBLS
BS&W				.93
Temp. deduction				2.09

"THIS IS TO CERTIFY THAT THE ABOVE NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED, AND LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION, ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION".

P O Box 9088 • New Iberia, LA 70562
337-560-5573

Lease Run Ticket

14369

Date 9-24 20 19

Operator Cowillion Lease No C G

Lease Name Truck #6

Field

GAUGE	OIL LEVEL FEET	OIL LEVEL INCHES
1st	1 0	0 2 3/4
2nd	1 0	0 4 5/8

BS&W LEVEL FT	BS&W LEVEL INCHES	TANK TEMP

TANK NO	SIZE
6 2 0 0 6	12,500

EST GROSS GALLONS @ °F

SERIAL NUMBERS

OLD

NEW

OBSERVED GRAVITY 30 @ 92 °F

PERCENT BS & W 4/10 %

TEMPERATURE OF OIL IN TANK °F

LOG NUMBER

TIME ARRIVED AM PM

TIME DEPARTED AM PM

DELIVERY STATION Berwick

OFFICE USE ONLY

GRAVITY CORR TO 60 °F	
1st	
2nd	
GROSS BARRELS	54.63
X FACTOR	.9826
NET BBLS PER RUN TIC	53.67

TEMP FACTOR	X	BS & W FACTOR	=	X FACTOR
.9865		.9960		.9826

GROSS

TARE

NET

OPEN

CLOSE

[redacted]

OPERATOR & WITNESS

PROPER SHIPPING NAME	HAZARD CLASS		I.D. NUMBER	TOTAL QUANTITY
PETROLEUM CRUDE OIL	III	3	UN 1267	53.67 BBLS
BS & W				.22
Temp Deduction				.74

"THIS IS TO CERTIFY THAT THE ABOVE NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED, AND LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION, ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION".