TECHNICAL REVIEW: Oil and Gas Checklist

Permit No.:	89069	***Company Name:***	Hilcorp Energy Company	***APD Reviewer:***	Mr. Hung Chau
Project No.:	391338	***Unit Name:***	Flanagan Central Oil And Gas Production Facility	***PBR No(s).:***	106.492, 106.352 2012-NOV-22, 106.359

GENERAL INFORMATION			
Regulated Entity No.:	RN105746192	**Date Received by TCEQ:**	April 8, 2025
Customer Reference No.:	CN600125991	**Date Received by Reviewer:**	April 9, 2025
City/County:	Seminole, Gaines County	**Physical Location:**	from seminole intersection hwy 62 and hwy 385 go s on hwy 385 9.5 mi turn right onto fm 2885 go 4.0 mi turn left go 1.0 mi turn right go 0.6 mi turn right go 0.11 mi turn left go 0.12 mi to facility

CONTACT INFORMATION					
Responsible Official/ Primary Contact Name and Title:	Matt Henderson Environmental Manager	**Phone No.:** **Fax No.:**	(713) 289-2970	**Email:**	MHENDERSON@HILCORP.COM
Technical Contact/ Consultant Name and Title:	Clara Cardoza Environmental Specialist	**Phone No.:** **Fax No.:**	(505) 564-2970	**Email:**	CCARDOZA@HILCORP.COM

GENERAL PROJECT INFORMATION	**YES**	**NO**	**COMMENTS**
Is confidential information included in the application?		X	
Are there affected NSR or Title V permits for the project?		X	
Are there permit limits on using PBRs at the site?		X	
Is PSD or Nonattainment netting required?		X	
Has the fee been paid?	X		761379 / 582EA000662939
Was an impacts evaluation required for the project?		X	
Have MSS emissions been accounted for in site-wide totals?	X		MSS is certified under 106.359
Site Specific Analysis used?		X	Representative gas and liquid analyses meet TCEQ Criteria.
Are all vents ≥ 20 ft, and meet 352(l)(4) as applicable?	X		>20 ft

Compliance History Evaluation - 30 TAC Chapter 60 Rules	
A compliance history report was reviewed on:	**April 9, 2025**
Site rating & classification:	**N/A**
Company rating & classification:	**3.64 / Satisfactory**
If site was rated unsatisfactory, what action(s) occurred as a result:	**N/A**

PROJECT RULES	**How was rule compliance demonstrated?** *(i.e., checklist, rule language, etc.)*
106.352	106.352 checklist provided
106.359	106.359 checklist provided
106.492	106.492 checklist provided

DESCRIBE THE OVERALL PROCESS AT THE SITE

The Flanagan Central Oil and Gas Production Facility receives production from offsite wells. The commingled stream enters separators that split the incoming streams into oil, produced water and gas phases. Oil from the separators is sent to the crude oil storage tanks. Oil tank vapors are controlled by the flare. From the crude oil storage tanks, the oil is sent offsite via pipeline and occasionally via uncontrolled oil truck loading. The produced water is sent to a gunbarrel tank and then to the produced water storage tanks on site. The vapors from the tanks are controlled by the flare. From the tanks, the water is sent offsite mainly via pipeline and occasionally loaded via uncontrolled truck loading. Gas from the separators is sent to the sales line. When the sales line is down, the gas will be sent to an onsite, high-pressure flare for control as alternative operating scenario (AOS). The permit has accounted for 16 MSCF/D of AOS gas flaring.

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DESCRIBE THE PROJECT

Hilcorp Energy Company is certifying revised site emission under 106.352(l), 106.359, and 106.492 using a PI-7 CERT

Changes associated with this revision are as follows:

- Update all site-wide emission sources, calculations and methodologies
- Revise production data:
  - Crude oil daily max (decrease)
  - Produced water daily max (decrease)
  - Produced gas daily max (increase)
- Add Tank forced and Non-Forced Ventilation (MSS-TK)
- Add Vessel Blowdowns (VSSL-BD)
- Add Miscellaneous Tanks (MISC-TK)
- Add Miscellaneous MSS Activities (MSS-MISC)
- Add Painting and Sandblasting (MSS-PB)
- Add 1x500 bbl Gunbarrel Tank (GB-1)
- Add Oil Truck Loading (OLOAD)
- Add Produced Water Truck Loading (PWLOAD)
- Remove 1x500 bbl Oil Tank (1)
- Remove 1x00 bb Water Tank (2)
- Remove 3x0.50 MMBtu/hr Heater Treater (3,4,5)

FEDERAL STANDARDS APPLICABILITY

Applicable Rule(s) :	*Y*	*NA*	*Explanation of how it meets (if applicable), or why it isn't applicable:*
NSPS Subpart OOOO		X	The site does not have any affected facilities constructed, modified or reconstructed after 8/23/2011 and on or before 9/18/2015
NSPS Subpart OOOOa		X	The site does not have any affected facilities constructed, modified or reconstructed after 9/18/2015 and on or before 12/06/2022
NSPS Subpart OOOOb		X	The storage tanks are subject to OOOOb but not applicable since the VOC PTE from all tanks is less than 6 tpy and methane PTE is less than 20 tpy

SITE INFORMATION

What is the Natural Gas Throughput?	16	MMSCF/YR
What is the Oil/Condensate Throughput?	48	bbl/day
What is the Produced Water Throughput?	700	bbl/day
Site specific H2S content of inlet gas (ppm)	31,310	ppm
If sour, provide distance (ft.) to nearest off property receptor.	>5280	ft.

FACILITY INFORMATION

Equipment:	**# of each**	**Calculation Methodology**
Storage Tanks	20 (2 oil, 2 produced water, 1 gunbarrel, 15 miscellaneous tanks)	ProMax and AP-42
Flares / Combustion Control Devices	1	TCEQ Guidance
Separators	Y	-
Truck Loading	Y	AP-42

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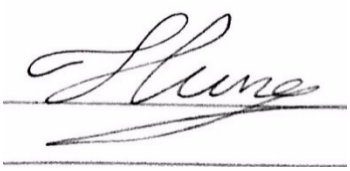
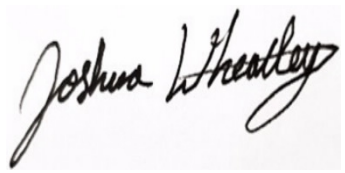
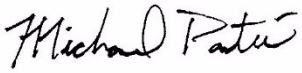
Fugitives	Y	EPA-453/R-95/017
MSS	Y	MSS is being certified under 106.359

CONTROL DEVICE(S)				
Flare	Destruction Efficiency:	98%	Controls what?	Tank emissions

MAXIMUM ALLOWABLE EMISSION RATES TABLE (MAERT)

EPN / Emission Source		VOC		NOx		CO		$PM_{2.5}$		PM_{10}		PM		SO_2		H_2S		HAP	
		lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lb/hr	tpy	lb/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy
New Emissions																			
FL-1	Flare Controlled Emission- Tank Vapors	0.08	0.21	0.02	0.06	0.05	0.13	-	-	-	-	-	-	1.31	5.20	0.02	0.06	0.01	0.01
	Tank Forced Ventilation	4.18	0.41	1.88	0.21	3.75	0.42	-	-	-	-	-	-	41.82	5.56	0.44	0.06	0.22	0.02
	Sales/ Process Gas (AOS)	0.18	0.77	0.08	0.33	0.15	0.66	-	-	-	-	-	-	2.20	9.64	0.02	0.10	-	-
	Flare Pilot	0.03	0.12	0.01	0.05	0.02	0.10	-	-	-	-	-	-	0.34	1.5	<0.01	0.02	-	-
OLOAD/ Oil Truck Loading		15.71	0.04	-	-	-	-	-	-	-	-	-	-	-	-	1.36	<0.01	0.68	<0.01
PWLOAD/ Produced Water Truck Loading		<0.01	<0.01	-	-	-	-	-	-	-	-	-	-	-	-	0.18	<0.01	<0.01	<0.01
FUG/ Fugitives		1.82	7.96	-	-	-	-	-	-	-	-	-	-	-	-	0.11	0.48	0.02	0.11
VSSL-BD/ Vessel Blowdowns		21.26	2.13	-	-	-	-	-	-	-	-	-	-	-	-	2.10	0.21	-	-
MISC-TK/ Miscellaneous Tanks		15.50	0.73	-	-	-	-	-	-	-	-	-	-	-	-	1.76	0.08	0.11	0.01
MISS-MISC/ Miscellaneous MSS Activities		0.03	0.14	-	-	-	-	-	-	-	-	-	-	-	-	<0.01	0.01	<0.01	<0.01
MSS-PB/ Painting and Blasting		0.11	0.48	-	-	-	-	<0.01	0.01	0.02	0.08	0.14	0.60	-	-	-	-	-	-
MSS-TK/ Tank Non-forced Ventilation		1.73	0.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.73	0.16
TOTAL EMISSIONS (TPY):		-	**13.15**	-	**0.66**	-	**1.31**	-	**0.01**	-	0.08	-	0.60	-	**21.90**	-	**1.02**	-	**0.31**
																	MAXIMUM OPERATING SCHEDULE: Hours/Year		8760

	TECHNICAL REVIEWER	**PEER REVIEWER**	**FINAL REVIEWER**
SIGNATURE:			
PRINTED NAME:	Mr. Hung Chau, Technical Reviewer	Joshua Wheatley, Team Lead	Michael Partee, Manager
DATE:	4/14/2025	4/15/2025	4/16/2025