	Form 10-900	OMB No. 10	024-0018
•	. 10-90)		111
Unite	ed States Department of the Interior	007 23 200	1400
Natio	onal Park Service		
NATIONAL REGISTER OF HISTORIC PLACES REGISTRATION FORM		MATIONAL REGISTER, HISTORY	
1.	Name of Property	NATIONAL PARK SERVICE	
,		an a	

historic name: JOSEPHINE

other names/site number: 13806 (Official Number); JCNF (Signal Letters); 22HR843 (Site Number, preferred)

2.	Location		-
	et & number	not for publication. X	
vicin	or town		
3.	State/Federal Agency Certification		-

this <u>X</u> nomination <u>request</u> for determ properties in the National Register of Historic forth in 36 CFR Part 60. In my opinion, the pr I recommend that this property be considered continuation sheet for additional comments.)	al Historic Preservation Act of 1966, as amended, I hereby certify that nination of eligibility meets the documentation standards for registering Places and meets the procedural and professional requirements set roperty $X$ meets does not meet the National Register Criteria. d significant nationally $X$ statewide locally. ( See
Kumth H. P. Por	SEPT. 29,2000
Signature of certifying official	Date
Denote Obsta Lilatoria Dressantian Officer	
Deputy State Historic Preservation Officer State or Federal agency and bureau	
State of Federal agency and bureau	
In my opinion, the property meets sheet for additional comments.)	does not meet the National Register criteria. ( See continuation
Signature of commenting or other official	Date
State or Federal agency and bureau	
4. National Park Service Certification	1
4. National Park Service Certification	$-\#_{\partial}\mathcal{H}$
I, hereby certify that this property is: entered in the National Register, See continuation sheet. determined eligible for the	Signature of the Keeper Date of Action
National Register See continuation sheet.	· · · · · · · · · · · · · · · · · · ·
determined not eligible for the	
National Register	
removed from the National Register other (explain):	

•

5.

•

Own	ership of Property:	Number of Resou	rces within Property:
	PUBLIC-STATE		eviously listed resources in the count)
Cate	gory of Property:	Contributing	Noncontributing
	STRUCTURE		buildings
			sites
		1	structures
			objects
		1	Total
	e of related multiple property listing "N/A" if property is not part of a multiple property listing.)		buting resources previously listed ional Register
(Enter	WA in property is not part of a multiple property listing.)		ional Register
	N/A		
6.	Function or Use		
Histo	pric Functions:		
	COMMERCE/TRADE/merchant shipping TRANSPORTATION/water related		
	GOVERNMENT/mail transport		
Curr	ent Functions:		
Guin	NOT IN USE		
	NOT IN USE		
7.	Description		
<u> </u>			
Arch	itectural Classification(s): OTHER: sidewheel merchant steamship; mid	to late 19 <sup>th</sup> century	
Mate	rials:		
	dation: N/A		

roof: N/A walls: N/A other: iron hull; wood superstructure

### Narrative Description:

See Continuation Sheets

OMB No. 1024-0018

### United States Department of the Interior National Park Service

## NATIONAL REGISTER OF HISTORIC PLACES CONTINUATION SHEET

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Section: 7

JOSEPHINE (22HR843) Harrison County, Mississippi

### DESCRIPTION OF PROPERTY

The iron-hull sidewheel steamer *Josephine* was built in 1867 by the Harlan and Hollingsworth Company of Wilmington, Delaware. Designed for use along the U.S. Gulf coast, the ship was built for New York businessman Charles Morgan's Louisiana and Texas Railroad and Steamship Company (L&TR&S). While no plans have been identified for this vessel, she was registered at 1,282.53 tons, 235 feet long, 34 feet wide, with an 18.5' depth of hold. Though she operated primarily between New Orleans, Louisiana, and Galveston, Texas, the *Josephine* foundered in a storm in 1881 while enroute to New Orleans from Havana, Cuba. The wreck was identified by archaeologists from the U.S. Department of the Interior's Minerals Management Service (MMS) in 1997.

The iron hull of the vessel is buried, but appears to be mostly intact from the keel to the waterline (Figure 2). Included in the wreckage of the *Josephine* are the remains of her walking beam engine (Figure 3), built by the Morgan Iron Works Company of New York City.

Few specifics have been identified about the construction of the sidewheel steamer *Josephine*. However, the following information is available. The vessel's official registration number was 13806 (Lytle 1952:103). Advertised as a low-pressure steamship, she was powered by a 50-inch diameter engine with an 11-foot stroke. The *Josephine* had a round stern, two decks, and two masts (Figure 4). These design features were similar to most of the sidewheel steamers constructed along the Atlantic Coast during the middle 1800s. The ship included two cabins and could transport up to 250 passengers (Hall 1884:21; Gause 1886:382).

IS divers carried out investigations on this wreck during the summers of 1997 and 1999. These investigations were limited to just a few days, with the primary purpose of photo-documenting the site. The investigations also aimed to collect as much information as possible to confirm the identification of the vessel using non-invasive techniques.

At present, much of the iron hull of the wreck is buried. The upper hull the second se

### NATIONAL REGISTER OF HISTORIC PLACES CONTINUATION SHEET

Section:	7	Page: 2	JOSEPHINE (22HR843)
			Harrison County, Mississippi

for the paddlewheels, which are still intact, and the iron spokes of the paddlewheels, some of which survived (Figure 5). The authors surmise that the hull is intact from the keel to the waterline. The bow of the vessel is completely buried, but the line of the hull may be followed with only short interruptions to the vessel's rudder.

One of the most dramatic features of the wreck is the walking beam, the diamondshaped feature that connected the engine piston to the eccentric of the paddlewheels, which lies collapsed against the starboard side (Figure 6). Both paddlewheel shafts are still mounted in their pillow blocks (Figure 7). By measuring the paddlewheel eccentrics MMS divers were able to derive the stroke of the engine: 11 feet, the same dimension published for the *Josephine's* engine. The engine cylinder itself does not appear to be extant, or it may have toppled and lies buried inside the hull. What appears to be a small piston cylinder just forward of the paddlewheels may be the engine's air pump, which drew water condensed from steam from the main piston cylinder and pumped it back to the boiler. The sidescan image collected in 1997, when the interior of the hull was slightly more exposed, shows two cylinders lying forward of the paddlewheels. These have been interpreted as twin boilers. Only the upper surfaces of these features were visible in 1999. In between the two boilers is the large, baffled base of the smokestack (Figure 8).

Based on observations made by the MMS scientific dive team -- the iron hull, the stroke of the engine, the design of the walking beam that is identical to the 19th century photograph of the ship, and the position of the wreck with respect to its position on an 1883 navigation chart -- the authors are confident in identifying the wreck, which has been assigned site number 22HR843, as Morgan's *Josephine*.

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#### 8. Statement of Significance

Appli	cable N	ational Register Criteria	Areas of Significance
	A	Property is associated with events that have made a significant contribution to the broad patterns of our history.	ENGINEERING MARITIME HISTORY TRANSPORTATION
	В	Property is associated with the lives of persons significant in our past.	
Х	С	Property embodies the distinctive characteristics of a type, period, or method	
		of construction or represents the work of a master, or possesses high artistic values, or represents a significant and distinguishable entity whose components lack individual distinction.	Period of Significance 1867-1881
Х	D	Property has yielded, or is likely to yield information important in prehistory or history.	
			Significant Dates
Crite	ria Cons	siderations:	1867
Prope	erty is:		1868
	A	owned by a religious institution or used for	1875
		religious purposes.	1881
	В	removed from its original location.	
	C D	a birthplace or a grave. a cemetery.	Significant Person(s)
	E F G	a reconstructed building, object, or structure. a commemorative property. less than 50 years of age or achieved significance within the past 50 years.	<b>Cultural Affiliation(s)</b> EUROPEAN/AMERICAN <b>Architect/Builder</b> HARLAN AND HOLLINGSWORTH MORGAN IRON WORKS

#### Narrative Statement of Significance:

See continuation sheets.

9. Major Bibliographical References			
Bibliography		See continuation sheet.	

#### Previous documentation on file (NPS)

\_\_\_\_preliminary determination of individual listing

- (36 CFR 67) has been requested.
- \_\_\_\_ previously listed in the National Register
- previously determined eligible by the National Register
- designated a National Historic Landmark
- recorded by Historic American Buildings Survey
- recorded by Historic American Engineering Record
  - #\_\_\_\_\_

#### **Primary Location of Additional Data**

\_\_\_\_ State Historic Preservation Office

- \_\_\_\_ Other State agency
- \_X\_ Federal agency
- \_\_\_\_Local government
- \_\_\_\_ University
- \_\_\_ Other

Name of repository:

#### MINERALS MANAGEMENT SERVICE

## NATIONAL REGISTER OF HISTORIC PLACES CONTINUATION SHEET

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*JOSEPHINE* (22HR843) Harrison County, Mississippi

### STATEMENT OF SIGNIFICANCE

#### **OVERVIEW:**

Owned by New York businessman Charles Morgan, one of the foremost figures in the development of the steamship trade along the Gulf Coast of the United States, the merchant steamship *Josephine* provided regular service between New Orleans, LA and Galveston, TX. The vessel was built at the Harlan and Hollingsworth Company (one of the premier companies to manufacture merchant steamers in the 19<sup>th</sup> century), and was supplied with a vertical walking-beam engine from the Morgan Iron Works (one of the leading producers of marine engines in the 19<sup>th</sup> century). The *Josephine* therefore meets the requirements for nomination under Criterion C. The potential for information that can be gathered from the shipwreck site of the *Josephine* also qualifies the site for nomination under Criterion D.

#### HISTORICAL SKETCH:

In 1867 Charles Morgan contracted the Harlan and Hollingsworth Company to construct the iron-hull sidewheel steamer *Josephine*. Completed in early 1868, the vessel first arrived at New Orleans on February 29, 1868, having departed from Wilmington, Delaware, on February 6. The *Josephine* made stops in Havana, Cuba, and Key West, Florida, along the way.

Among the passengers on her maiden voyage were the vessel's owner, Charles Morgan, and several members of his family. A contemporary account described the vessel as "...the most beautiful and elegant of any that have entered the port of Havana" (*Daily Picayune* 1868). The newspaper article also described the presence of a model of the vessel that was on board until her arrival at Havana. The model was depicted as being approximately three feet in length, constructed of gold and silver, with an estimated value of \$3,000. Beneath the model was a music box. Apparently the paddlewheels of the model rotated when the music played. According to the article, the model was removed in Havana and taken to "the Palace that our chief in authority may examine it and see its merits." No other reference to this model has been found.

## NATIONAL REGISTER OF HISTORIC PLACES CONTINUATION SHEET

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			Harrison County, Mississippi

Upon arrival in the Crescent City, the *Josephine* was assigned to run a new route from Brashear City (later renamed Morgan City in honor of Charles Morgan), Louisiana, to Galveston, Texas. In addition to carrying passengers and freight, the *Josephine* also served as a mail carrier between these cities. According to newspaper advertisements, the *Josephine* ran this route between two and three times per week.

Three events that were recorded in local newspapers during the *Josephine's* run between Louisiana and Texas are worth mentioning here. Shortly after beginning service along the Gulf coast in 1868, the steamer was almost lost when she ran aground at Brazos Bar, off the Texas coast. After about two weeks she was removed from the bar, taken back to New Orleans and placed in dry dock at the Vallette Dry Dock facility in Algiers. A copy of the marine surveyor's report, dated April 15, 1868 testified to the durability of this vessel:

...after having been so long ashore on the bar at Los Brazos de Santiago, and, as far as we can discover, not a single rivet has been started, and not a single drop of water came out of any part of her bottom.

This grounding apparently had little effect on the steamer, other than allowing people the opportunity to see the under side of the vessel, as the account continues by saying:

It is the intention of Mr. Morgan to allow his noble vessel to remain in the dock during to-day (Saturday), in order that those of our citizens who feel so inclined may have an opportunity of observing her out of water.

A contemporary photograph of the *Josephine* in dry dock may have been made to immortalize this occasion (Figure 9).

In June 1874 there was an account of the *Josephine* transporting the entire New Orleans Mechanic's Fire Company, No. 6, along with their steam engine, to Galveston and back, charged at standard excursion rates (*Daily Picayune* 1874). This event is significant only because it is symbolic of yet another major industry made possible by the regular and predictable schedules of the steam packets ... tourism.

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The following year, in March 1875, the *Josephine* played a role in Texas history by functioning as a refuge vessel for the citizens of Corpus Christi when Mexican bandits raided the town (Sutherland 1916:46).

Around January 15, 1881, the *Josephine* was transferred to the New Orleans to Havana route, replacing the steamer *Morgan*, another vessel built by the Harlan and Hollingsworth Company. This was to be her last voyage.

On January 27, the *Josephine* left New Orleans, and arrived in Havana a few days later. On February 2 she departed Havana with several passengers and a cargo of tobacco and cigars (Irion 1989:8). Among the passengers was a family of musicians led by Professor Herman Franko.

According to Professor Franko's account of the foundering, the steamer began her return trip to New Orleans at 5 p.m. on February 2. She arrived in Key West the following afternoon and departed for Cedar Key that evening, arriving on the morning of Friday the fourth. At Cedar Key the *Josephine* picked up several more passengers. Included among the new passengers were 14 members of an Italian crew that had recently survived the sinking of their lumber ship, originally bound for London from Pensacola (*Daily Picayune* 1881).

The Josephine left Cedar Key around 4 p.m. Friday enroute to New Orleans, evidently sailing without incident until sometime Sunday when it was noticed that the vessel was leaking. Passengers and crew worked to bail water, but could not control the leak. Therefore, arrangements were made to abandon ship. Prior to the Captain giving the order however, the leak began to subside. Not long after, the seas picked up and the vessel began to take on water once more. On Monday evening the Captain again had the crew prepare to abandon ship. By 3 a.m. Tuesday morning all had escaped, and the vessel began to heel to one side. Though all passengers and crew were able to escape the sinking, the Franko family lost all of their band instruments. This included six trunks, six valises, two packages of costumes, and three violins, one of which he valued at \$1,000. Professor Franko estimated his total loss at \$15,000. Additionally, it was reported that the Captain's black dog was unable to make it off the vessel (ibid.).

According to another passenger's account of the sinking, the *Josephine* ran into a hurricane sometime Saturday afternoon, which did not let up until Monday. "On Sunday

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morning it was discovered that the pressure of the water against the side of the ship opened the seams and the water was pouring in at a fearful rate" (ibid.). This incident was reported as the first serious accident to a Morgan Line vessel in eleven years. The loss of the *Josephine* was valued at \$75,000.

Though it was described as a hurricane by one of the survivors, the time of the foundering was in early February, well after hurricane season ends on the Gulf coast. Nevertheless, it must have been a very severe winter storm, for several accounts of storm damage were detailed in the February 10, 1881, edition of the New Orleans *Daily Picayune*. Included in the reports was an account that most of the buildings at Pass Manchac were destroyed. Damage was also incurred at least as far east as Pensacola, Florida.

#### **Discovery of the** *Josephine:*

In 1997 the *Josephine* came to the attention of the U.S. Department of the Interior's Minerals Management Service (MMS) as a result of a sonar survey preformed by Klein and Associates nearly a decade earlier. Although its identity had long been forgotten, the location of this wreck was well known to locals as a good fishing spot.

Utilizing a newly acquired high-resolution sidescan sonar, the wreck site was investigated by archaeologists with the MMS as part of the Seafloor Monitoring Program (Figure 10). The MMS archaeologists running the survey were astonished by the excellent state of preservation of what was clearly a sidewheel steamship with a walking beam engine. Subsequent research, which included the discovery that the wreck was labeled on an 1883 navigation chart, identified the vessel as the *Josephine*, an iron-hulled steamer built in 1867 for the Morgan Line.

### **ELIGIBILITY UNDER CRITERION C:**

At the time of the *Josephine's* construction, the Harlan and Hollingsworth Company had already earned a reputation for manufacturing high quality iron hull vessels (Hall 1884:204). The company, which began building ships around 1844, played an integral role in the development of merchant ship design in the United States, and was

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eventually purchased by the Bethlehem Steel Corporation in 1906. Two of the first ironhull vessels built in the United States, the *Ashland* and the *Ocean*, were constructed at the Harlan and Hollingsworth yard. In 1883 they also built the first steel-hull vessel, the *Olympian* (Pearson and Simmons 1995:65). Construction on the *Josephine* began at the Harlan and Hollingsworth yard in 1867 and was completed in early 1868.

The Morgan Iron Works, located in New York City, became one of the leading producers of marine steam engines in the United States in the mid 19<sup>th</sup> century. The company provided steam engines for numerous Atlantic coastal steamers. It also equipped most of the ships employed by Charles Morgan, as well as many of the American-owned steamships operating in China. At its peak, the company employed over 1,000 men (Dayton and Adams 1970[1925]:384-386).

The remains of the *Josephine* provide an excellent example of the type of construction that was carried out by both the Harlan and Hollingsworth Company and the Morgan Iron Works. The quality of workmanship at these companies was well respected and has been thoroughly documented (c.f. Hall 1884; Baughman 1968). It is believed that the remains of the hull **Generative** are intact. Evidence of the vertical walking beam is also present. Therefore, the vessel is eligible for nomination to the National Register under Criterion C.

### **ELIGIBILITY UNDER CRITERION D:**

Of the 117 steamships owned by Charles Morgan or his corporate enterprises between 1833 and 1885, the wrecks of three have been discovered in the Gulf of Mexico or contiguous waters. One of these, the *Mary* (built in 1866, sunk in 1876), was recorded by archaeologists off Aransas Pass, Texas, in 1995 (Pearson and Simmons 1995). The U.S. Department of the Interior's Minerals Management Service (MMS) has documented two others, the *New York* (built in 1837, sunk in 1846) and the *Josephine*. Taken together, these vessels represent the span of steamships employed by the Morgan Line and document the changing technology of steam navigation in the United States.

The remains of the *Josephine* are very well preserved, much more so than its contemporary the *Mary* in Corpus Christi, which also suffers from being located in

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			Harrison County, Mississippi

waters that make data recovery extremely hazardous (Pearson and Simmons 1995:130). Pearson wrote of the *Mary* that she was "a ship that played a central and critical role in the economic history of the Gulf coast region (and) serves as a model for understanding the workings of a critical element of the nineteenth century Gulf Coast trade and as a point of departure for studies of that trade" (Pearson and Simmons 1995:131). Not only are these words also true for the *Josephine* but because of its excellent state of preservation and the relatively benign environmental conditions at the site, its research potential is far higher. The *Josephine* is therefore eligible for National Register status under Criterion D.

## NATIONAL REGISTER OF HISTORIC PLACES CONTINUATION SHEET

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JOSEPHINE (22HR843) Harrison County, Mississippi

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# United States Department of the Interior National Park Service

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Shipwreck JOSEPHINE

Acreage of Property:					
UTM References: Zone Ea A B	C D	Zone	Easting	Northing	
See continuation sheet.					
Verbal Boundary Description	See continuation sheet.				
Boundary Justification:	See continuation sheet.				
11. Form Prepared By					
name/title: DAVE BALL/MARINE A organization: MINERALS MANAG				F, SOCIAL SCIENCES UNIT date: APRIL 27, 2000 telephone: (504) 736-2859 zip code: 70123	
street & number: 1201 ELMWOOL	PARK BLVD., MS 5411		telephone:	(504) 736-2859	
street & number: 1201 ELMWOOL city or town: NEW ORLEANS	PARK BLVD., MS 5411		telephone:	(504) 736-2859	
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**Estimated Burden Statement**: Public reporting burden for this form is estimated to average 18.1 hours per response including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding this burden estimate or any aspect of this form to the Chief, Administrative Services Division, National Park Service, P.O. Box 37127, Washington, DC 20013-7127; and the Office of Management and Budget, Paperwork Reductions Projects (1024-0018), Washington, DC 20503.

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# United States Department of the Interior National Park Service

## NATIONAL REGISTER OF HISTORIC PLACES CONTINUATION SHEET

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JOSEPHINE (22HR843) Harrison County, Mississippi

### VERBAL BOUNDARY DESCRIPTION

The boundary for the site consists of the area immediately around the shipwreck. A small buffer area (approximately 7.5 feet wide) has been added to the known dimensions of the vessel to comprise the site boundary.

### BOUNDARY JUSTIFICATION

The boundary of the shipwreck is slightly larger than its recorded dimensions in order to include associated material that may have settled nearby as a result of the wrecking process, or through natural decay.