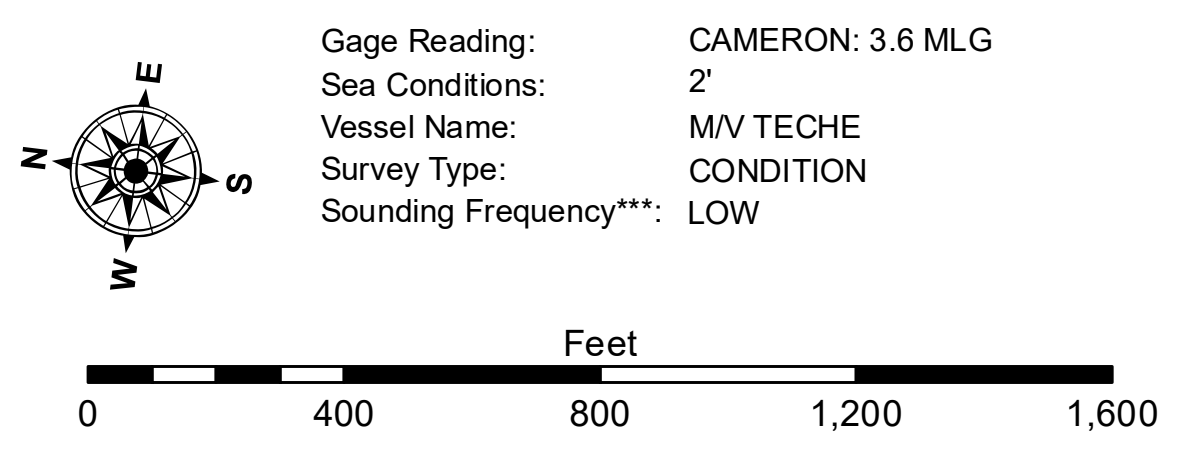


**LEGEND**

|                                  |                     |                           |                  |
|----------------------------------|---------------------|---------------------------|------------------|
| --- Federal Navigation Channel   | ○ Cable Area        | 3 Fluff Thickness (feet)* | ■ -15' and above |
| — Federal Navigation Center Line | □ Placement Area    | ● Shoalest Sounding**     | ■ -15' to -20'   |
| — As-built Pipeline/Cable        | □ Anchorage Area    | ★ Beacon, General         | ■ -20' to -25'   |
| ..... Unconfirmed Pipeline/Cable | ⊗ Obstruction Point | ◆ Red Navigation Buoy     | ■ -25' to -32'   |
| — Project Depth Contour          | ⚓ Wrecks-Submerged  | ◆ Green Navigation Buoy   | ■ -32' to -38'   |
|                                  |                     |                           | ■ -38' to -40'   |
|                                  |                     |                           | ■ -40' to -42'   |
|                                  |                     |                           | ■ -42' and below |



**NOTES 446,000**  
 Horizontal Coordinate System: North American Datum of 1983 (NAD83), projected to the State Plane Coordinate System (SPCS), Louisiana South Zone. Distance units in U.S. Survey Feet.  
 Vertical Datum: Soundings are shown in feet and indicate depths below Mean Low Gulf Datum (MLG). Datum Relationships for gage 73650 as of December 2013: 0.0' NAVD88 (2009.55) = 1.3' MLLW = 2.3' MLG or 0.0' MLLW = 1.0' MLG  
 Distances on the Calcasieu River are shown at 1 mile intervals.  
 The location of navigation aids are base on and provided by the U.S. Coast Guard and USACE survey crews.  
 2015 Aerial Photography data source: NAIP  
 Reference is N.O.A.A. Navigation Chart No. 11339.  
 \* Difference between high and low frequency elevations where greater than 1.0'.  
 \*\* Shoalest Sounding per Quarter per Reach.  
 \*\*\* High frequency (200 kHz) survey data represents the first signal return at a sounding location and will include suspended solids, known as "fluff", if present. Low frequency (20 kHz) survey data normally penetrates through this "fluff" layer to depict elevations of consolidated bottom material. Low frequency accuracies may vary depending on channel conditions and fathometer settings.



**DISCLAIMER**  
 The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the data are not warranted for any purpose other than that for which they were prepared, and that the user is responsible for the results of their use. The user is responsible for the results of their use. The user is responsible for the results of their use. The user is responsible for the results of their use.  
 Distribution Liability: The data represents the results of data collection/processing for a specific US Army Corps of Engineers project. The data is not warranted for any purpose other than that for which it was prepared. The user is responsible for the results of their use. The user is responsible for the results of their use. The user is responsible for the results of their use.

U.S. ARMY CORPS OF ENGINEERS  
 NEW ORLEANS DISTRICT

|              |                    |
|--------------|--------------------|
| Submitted:   | Surveyed By: SP-SR |
| Recommended: | Plotted By: AO     |
| Approved:    | Checked By: AC     |

**CALCASIEU SHIP CHANNEL**  
**BAR SHEET 29**  
**CR\_29\_BAR\_20171001\_CS**  
**01 October 2017**

**Sheet Reference Number**  
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