

CURVE 2 DATA
 $\Delta = 30^\circ 25' 35.6462''$
 $D = 00' 44' 58.9198''$
 $T = 2078.3228'$
 $R = 7642.4949'$
 $L = 4056.4995'$

FRONT LIGHT RANGE "A"
 X=3,511,088
 Y=251,869

P.C. 4 155
 X=3,509
 Y=252

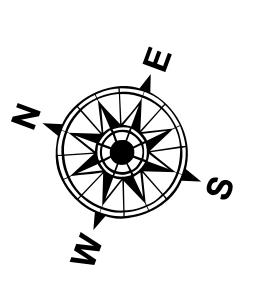
SPD MI. 6.5
 X=3,510,227
 Y=246,843

REAR LIGHT RANGE "B"
 X=3,514,958
 Y=248,034

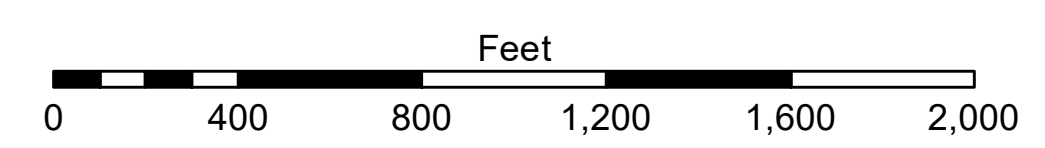
BURLINGTON RES OIL & GAS
 PROPOSED 16" & 20"

HILCORP ENERGY
 8" PIPELINE EL. -26.0' MLG
 16" PIPELINE EL. -26.0' MLG
 20" PIPELINE EL. -25.0' MLG

LEGEND			
--- Federal Navigation Channel	○ Cable Area	□ Borrow Area	■ -12' and above
— Federal Navigation Center Line	■ Placement Area	● Shoalest Sounding**	■ -12' to -15'
— As-built Pipeline/Cable	□ Anchorage Area	★ Beacon, General	■ -15' to -18'
..... Unconfirmed Pipeline/Cable	⊗ Obstruction Point	◆ Red Navigation Buoy	■ -18' and below
— Project Depth Contour	✈ Wrecks-Submerged	◆ Green Navigation Buoy	



Gage Reading: COCODRIE: 1.39 MLG
 Sea Conditions: CALM
 Vessel Name: OB-167
 Survey Type: CONDITION
 Sounding Frequency***: LOW



NOTES:
 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 Relationship for 76305 as of August 2014:
 0.0' NAVD88 (OPUS 2010) = 0.42' MLLW (2007-2011) = 1.34' MLG
 Distances on the Houma Nav. Canal 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. 11355.
 ** 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 information depicted on this map represents the results of a survey conducted by the U.S. Army Corps of Engineers. It is not intended to be used for any purpose other than that for which it was prepared. The user is responsible for the accuracy, reliability, usability, or suitability of the information for any particular purpose. The user is responsible for the accuracy, reliability, usability, or suitability of the information for any particular purpose. The user is responsible for the accuracy, reliability, usability, or suitability of the information for any particular purpose. The user is responsible for the accuracy, reliability, usability, or suitability of the information for any particular purpose.

Submitted:	Surveyed By: SPPM
Recommended:	Plotted By: BD
Approved:	Checked By: AC

U.S. ARMY CORPS OF ENGINEERS
 NEW ORLEANS DISTRICT
 Chief, Waterways Maintenance Section

**HOUMA NAVIGATION CANAL
 BAY CHANNEL
 HN_14_BAY_20190321_CS
 21 March 2019**

**Sheet Reference Number
 14 of 19**