F00003

NOAA FORM 76-35A

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE

DESCRIPTIVE REPORT

Type of Survey: Field Edit

Field No.:

Registry No.: F00003

LOCALITY

State: TEXAS

General Locality: MATAGORDA BAY

Sublocality: CULVER CUT

BRAZOS R. TO PASS CAVALLO

1934

CHIEF OF PARTY

LIBRARY & ARCHIVES

DATE

NOTE: A new system for registering Field Examinations (FE's) was established in 1980. All FE's are now consecutively numbered as shown hereon. The date shown in the new format is the actual date of survey. This material was previously registered as: FE No.99 1934

F00003

POST-OFFICE ADDRESS: 230 Nixon Bldg.; Corpus Christi, Texas

TELEGRAPH ADDRESS:

EXPRESS ADDRESS:

Transferred to Field Examination File.
Sept. 21, 1934 (F.E. 99)-1934.

~~225~~ F.E. 99 (1934)

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

March 28, 1934.

225.

20

1934 MAR - 31 - PM 12:07

ANSWERED APR 4 1934 DIVISION OF CHARTS

To: The Director,
Coast and Geodetic Survey,
Washington, D. C.

From: Earl O. Heaton, Lieut., C. & G.S.

Subject: Corrections to chart #1284.
Ref. 22MG 1990 (8)

The questions noted by the Office on the U. S. Engineer's print have been numbered and the answers are given below.

Photographs returned.

1. See blue line print of Matagorda County and Reclamation Dist. #1. (Bp. 27375)

2. See photographs and above blue line print. The shore line on this print is approximately as indicated but the low water line is more probable as indicated by red line drawn by us.

3. See bromide sent to me by office and blue line print. (Bp. 27375) The only beacons in the questionable area that are of any value at present are beacons #3 and #5 at Middle Channel and the beacon at Raymond landing shoal.

4. The intracoastal waterway between Galveston and Corpus Christi has been cut only from Galveston to the Brazoria County line on the north shore of West Bay. In the area covered by chart #1284 only survey work has been completed.

5. See blue line print. From end of line of soundings a boat can go in any direction in 4 ft. of water.

In addition to the questions asked I wish to make a few additional comments.

The depth of water as indicated from the mouth of the Colorado River to Middle Pass is controlled by soundings of 2 ft. The bottom here, however, is very soft and it is possible for a boat drawing 4 ft. of water to work its way through.

The entire area around the mouth of the Colorado is changing very rapidly and will eventually build up all the way across the bay. A blue line print of the U.S. Engineers is being submitted showing the rate of progression of the delta.

225

Bps. 27271, 27272, 27374, 27375 ✓

At the lower end of the delta there is a spoil bank on both sides as indicated by red dotted line on the blue line print.

It is requested that the photographs be returned as soon as possible so that they may be properly compiled here.

Earl O. Heaton

Earl O. Heaton,
Lieut., C. & G. S.

1 Vol. "Leveling Record - Tide Station" USE Staff on Docks Matagorda, Texas - Mar. 23, 1934

to Div. of Tides 4-4-34.
DN

80-DRM

April 4, 1934.

To: Lieut. Earl O. Heaton,
U. S. Coast and Geodetic Survey,
230 Nixon Building,
Corpus Christi, Texas.

From: The Director,
U. S. Coast and Geodetic Survey.

Subject: Vicinity of mouth of Colorado River, Matagorda Bay, Texas.

Receipt is acknowledged, with thanks, of your letter dated March 28, 1934, with inclosures, relative to Matagorda Bay, Texas, in the vicinity of the mouth of Colorado River.

The ten aerial photographs forwarded by you are returned under separate cover, as requested.

(Signed) J. H. HAWLEY

Acting Director.

(1934)

Form 275
Ed. Mar., 1929

(SPACE FOR ARCHIVES STAMP)

Letter 225
1934

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

R. S. Patton, Director.

~~HYDROGRAPHIC SHEET NO.~~ Bp. 27375

SOUNDINGS

Locality:

Matagorda Bay

Culver Cut, Colorado River & Matagorda Bay

Boat Francis "S"

Vol. No. 1 1 *Vols.*

From March 23, 1934, *Pos.* 1

To March 23, 1934, *Pos.* 35

Statute miles of sounding lines

Number of soundings

Number of positions

1934

Name of Vessel:

Project H.T. 118

Chief of Party:

E. O. Heaton

Lieut., *U. S. C. and G. Survey.*

11—740

U. S. GOVERNMENT PRINTING OFFICE, 1929

DEVIATION TABLE

(FOR AREA COVERED BY HYDROGRAPHIC SHEET)

VESSEL _____

DATE _____

LATITUDE _____

LONGITUDE _____

VARIATION (CHART NO. _____ OR OBSERVED) _____

SHIP'S HEAD ——Compass	DEVIATION + East − West
°	° ′
0	
15	
30	
45	
60	
75	
90	
105	
120	
135	
150	
165	
180	
195	
210	
225	
240	
255	
270	
285	
300	
315	
330	
345	
360	

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OBJECTS LOCATED BY HYDROGRAPHIC PARTY

NAME OF OBJECT	PAGE	NUMBER OF CUTS ON PAGE

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HYDROGRAPHIC INFORMATION

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SUBJECT	PAGE	NUMBER OF REFS. ON PAGE

SOUNDINGS Matagorda

Year 1934 Month March Day of Month 23

POSITION NUMBER	TIME MER. 90 A M. h. m. s.	SOUNDINGS FEET (FATHOMS)	SOUNDINGS TENTHS (FEET)	CORRECTIONS LEAD LINE / TUBES / ECHO FEET (FATHOMS)	CORRECTIONS SLOPE FACTOR (FATHOMS)	CORRECTIONS RED. FOR TIDE FEET (FATHOMS)	REDUCED SOUNDINGS FIELD FEET (FATHOMS)	REDUCED SOUNDINGS FIELD TENTHS (FEET)	REDUCED SOUNDINGS OFFICE FEET (FATHOMS)	REDUCED SOUNDINGS OFFICE TENTHS (FEET)
	No. 14									
	In charge W.C. Russell									
	R angle			Sextant						
	L angle			Sextant						
	Plotting			Protractor						
	Recorder L.D. Williams			Clock 1300K						
	Automatic / Wire portable time			Gauge No. Staff at						
	Note: Hired launch Francis "S" of Matagorda Tide Staff Used - USE staff at Docks on									
1	8-59-30	9	6			0.7	9			
	50	9	0				0			
	9-00-10	9	0				0			
	30	9	0				0			
	50	9	0				0			
	01-10	9	0				0			
	30	9	0				0			
	50	9	0				0			
	02-10	9	0				0			
	30	10	3				9	1/2		
	50	10	2				9	1/2		
	03-10	9	9				9			
	30	10	8				10			
	50	9	0				0			
	04-10	9	0				0			
2	30	9	0				0			
	50	11	0				10			
	05-10	9	0				0			
	30	9	0				9			
	50	10	5				10			
	06-10	10	0				9			
	30	9	0				0			
	50	9	0				0			
3	07-10	9	0				0			
	30	9	0				0			
	50	10	6				10			

Sublocality

Culver Cut

Boat used Francis S ; day

BOTTOM	HEADING BY BOAT COMPASS	ANGLES AND RANGES BEARINGS LOG READINGS ENGINE REVOLUTIONS	REMARKS
No. 19 Left anchorage at 8.30 AM Distance to working grounds 1.0 mi			No. 20 Weather Clear Wind So.S.E-2 Sea Calm
Bay -			W. H. White, Sounding (Pole)
Colorado River, Matagorda, Texas.			
Hrd S	214	1) Fork of Culver Cut and Colorado River Running down Ctr. of Culver Cut.	Culver Cut about 35 Meters Wide - Banks on both sides about 4 ft high - Tall Willows on both sides prevents seeing Signals.
Hrd S			See level record for tides. EOH
	c/c 253	2) Bend Right	
Hrd S.			
Hrd S			
	c/c 220	3) Bend Left	
Hrd S			

Locality

SOUNDINGS Matagorda

Year 19 34 Month March Day of Month 23

POSITION NUMBER	TIME MER. 90 A M.	SOUNDINGS FEET (FATHOMS)	SOUNDINGS TENTHS (FEET)	CORRECTIONS LEAD LINE / TUBES / ECHO FEET (FATHOMS)	CORRECTIONS SLOPE FACTOR (FATHOMS)	CORRECTIONS RED. FOR TIDE FEET (FATHOMS)	REDUCED SOUNDINGS FIELD FEET (FATHOMS)	REDUCED SOUNDINGS FIELD TENTHS (FEET)	REDUCED SOUNDINGS OFFICE FEET (FATHOMS)	REDUCED SOUNDINGS OFFICE TENTHS (FEET)
	9-08-10	10	1			0.7	9	1/2		
	30	8	0				7			
	50	7	9				7			
	09-00	8	4				7	1/2		
	10	10	3				9	1/2		
	30	9/11	0				9/10			
	50	9/11	0				9/10			
4	10-10	9/11	0				9/10			
	30	10	3				9	1/2		
	50	9	5				9			
	11-10	8	4				7	1/2		
	30	8	2				7	1/2		
	50	7	2				6	1/2		
5	12-10	7	5				7			
	30	9/11	0				9/10			
	50	10	3				9	1/2		
6	13-10	9/11	0				9/10			
	30	10	1				9	1/2		
	50	9	7				9			
	14-10	10	1				9	1/2		
	30	9/11	0				9/10			
	50	10	3				9	1/2		
	15-10	9	8				9			
	30	8	9				8			
	50	7	7				7			
7	16-10	8	0				7			
	30	9/11	0				9/10			
	50	9	6				9			
	17-10	9	8				9			
	30	10	2				9	1/2		
	50	10	3				9	1/2		
	18-10	10	3				9	1/2		
/										

Culver Cut

Boat used Francis S ; day

BOTTOM	HEADING BY BOAT COMPASS	ANGLES AND RANGES BEARINGS LOG READINGS ENGINE REVOLUTIONS	REMARKS
Hrd S			
Sft M			
			Tall Cane & Brush on both sides about 12ft high
	c/c 208	4) Bend Left	
Hrd S			
	c/c 218	5) Bend Right	Cut on port beam jammed at mouth by logs
Hrd S			
	c/c 235	6) Bend Right	
Hrd S			Cut 35 Meters Wide
	c/c 214	7) Bend Left	
Hrd S			

SOUNDINGS Matagorda

Year 1934 Month March Day of Month 23

POSITION NUMBER	TIME MER. 90 M. 4	SOUNDINGS FEET	SOUNDINGS TENTHS	CORRECTIONS LEAD LINE / TUBES / ECHO	CORRECTIONS SLOPE	CORRECTIONS RED. FOR TIDE	REDUCED SOUNDINGS FIELD FEET	REDUCED SOUNDINGS FIELD TENTHS	REDUCED SOUNDINGS OFFICE FEET	REDUCED SOUNDINGS OFFICE TENTHS
	~~FATHOMS~~	~~FEET~~		FEET FATHOMS	FACTOR FATHOMS	FEET ~~FATHOMS~~	~~FATHOMS~~	FEET	FATHOMS	FEET
	H. M. S. 9-18-30	9	0			07	8			
	50	7	6				7			
	19-10	9	0				8			
8	20	10	4				9	1/2		
	40	10	2				9	1/2		
9	20-00	9	9				9			
	10	0/11	0				0/10			
	30	0/11	0				0/10			
	50	0/11	0				0/10			
	21-10	10	4				9	1/2		
	30	10	0				9			
	50	10	0				9			
	22-10	0/11	0				0/10			
	30	0/11	0				0/10			
	50	0/11	0				0/10			
	23-10	0/11	0				0/10			
	30	0/11	0				0/10			
	50	11	0				10			
	24-10	11	0				10			
	30	0/11	0				0/10			
	50	0/11	0				0/10			
	25-10	10	8				10			
	30	11	0				10			
	50	11	0				10			
	26-10	10	8				10			
	30	10	6				10			
	50	10	6				10			
	27-10	10	6				10			
	30	11	0				10			
	50	0/11	0				0/10			
	28-10	0/11	0				0/10			
	30	0/11	0				0/10			

Culver Cut

Boat used Francis S ; day

BOTTOM	HEADING BY Boat COMPASS	ANGLES AND RANGES BEARINGS LOG READINGS ENGINE REVOLUTIONS	REMARKS
Hrd S			
	c/c 241	8) Bend Rt.	
	c/c 195	9) Bend Left	Bayou at bend leading off to right 35 Meters Wide
SftM			
Hrd S			
SftM			Average height of Cane and brush 6ft high - Banks about 3 ft high

SOUNDINGS Matagorda

Year 1934 Month March Day of Month 23

POSITION NUMBER	TIME MER. 90 A M.	SOUNDINGS FEET	SOUNDINGS TENTHS	CORRECTIONS LEAD LINE / TUBES / ECHO FEET FATHOMS	CORRECTIONS SLOPE FACTOR FATHOMS	CORRECTIONS RED. FOR TIDE FEET	REDUCED SOUNDINGS FIELD FEET	REDUCED SOUNDINGS FIELD TENTHS	REDUCED SOUNDINGS OFFICE FEET	REDUCED SOUNDINGS OFFICE TENTHS
10	h. m. s. 9-28-50	0/11	0			0.7	0/10			
	29-10	0/11	0				0/10			
	30	0/11	0				0/10			
	50	0/11	0				0/10			
	30-10	0/11	0				0/10			
11	30	0/11	0				0/10			
	50	0/11	0				0/10			
	31-10	0/11	0				0/10			
12	30	10	7				10			
	50	10	3				9	1/2		
	32-10	10	0				9			
	30	9	0				8			
	50	8	3				7	1/2		
	33-10	8	0				7			
	30	7	8				7			
	50	7	8				7			
	34-10	7	0				6			
	30	6	6				6			
	50	7	0				6			
	35-10	7	0				6			
	30	7	7				7			
	50	7	0				6			
	36-10	7	5				7			
	30	6	7				6			
	50	8	0				7			
	37-10	7	5				7			
	30	7	5				7			
	50	7	5				7			
	38-10	7	5				7			
	30	8	5				8			
	50	10	0				9			
	39-10	8	5				8			
	30	8	5				8			
	50	9	0				8			
	40-10	8	8				8			
	30	9	0				8			
	50	8	5				8			
	41-10	8	5				8			

Culver Cut

Boat used Francis S ; day

11-740

BOTTOM	HEADING BY Boat COMPASS	ANGLES AND RANGES BEARINGS LOG READINGS ENGINE REVOLUTIONS	REMARKS
	c/c 180	(10) Bend Left	Cut about 35 Meters Wide
	c/c 158	(11) Bend Left	
Sft M			
Sft M	c/c 199	(12) Bend Right	
			Cut about 40 Meters Wide - Banks 2 ft high
			Cave on both sides about 8 ft high
Hrds Sft M			
Hrds Sft M (Black)			
Hrds			
Sft M Hrds			
Sft M			
			Banks on both sides about 1 ft. high

SOUNDINGS Matagorda

Year 1934 Month March Day of Month 23

POSITION NUMBER	TIME MER. 90 A M. h. m. s.	SOUNDINGS FEET	SOUNDINGS TENTHS	CORRECTIONS LEAD LINE TUBES ECHO FEET FATHOMS	CORRECTIONS SLOPE FACTOR FATHOMS	CORRECTIONS RED. FOR TIDE FEET FATHOMS	REDUCED SOUNDINGS FIELD FEET	REDUCED SOUNDINGS FIELD TENTHS FATHOMS FEET	REDUCED SOUNDINGS OFFICE FEET	REDUCED SOUNDINGS OFFICE TENTHS FATHOMS FEET
	9-41-30	8	7			0.7	8			
	50	9	5				9			
	42-10	9	0				8			
	30	9	9				9			
	50	9	7				9			
	43-10	10	5				10			
	30	9	5				9			
13	50	9	0				8			
	44-10	6	2				5	1/2		
	30	5	3				4	1/2		
	50	5	3				4	1/2		
	45-10	5	3				4	1/2		
	30	5	8				5			
	50	5	5				5			
	46-10	5	3				4	1/2		
	30	5	4				4	1/2		
	50	5	2				4	1/2		
	47-10	4	5				4			
	30	4					3			
	50	3	8				3			
	48-10	3	4				2	1/2		
	30	3	8				3			
14	50	3	7				3			

Surrocating

Culver Cut

Boat used Francis S ; day

BOTTOM	HEADING BY Boat COMPASS	ANGLES AND RANGES BEARINGS LOG READINGS ENGINE REVOLUTIONS	REMARKS
Sft M Gray			
HrdS Sft M.	cf 1,49	13) Bend Left	HAZY Horizon Dec Speed. Channel 25M Wide-Logs on both sides- Mud and Sand flats on both side Impossible to obtain fixes
HrdS			
		14) Line ends about 600 M beyond last bend -	Channel 15M Wide Log Jams ahead about 3/4 of Mile long, completely blocking pass- Flats on both sides at the fix, extending out 1/4 Mile- 1 Ft. Bare - Channel impossible for navigation

SOUNDINGS Matagorda

Year 1934 Month March Day of Month 23

11—740

POSITION NUMBER	TIME MER. 90 A M.	SOUNDINGS FEET / TENTHS (FATHOMS / FEET)	CORRECTIONS LEAD LINE / TUBES / ECHO (FEET / FATHOMS)	CORRECTIONS SLOPE (FACTOR / FATHOMS)	CORRECTIONS RED. FOR TIDE (FEET / FATHOMS)	REDUCED SOUNDINGS FIELD FEET / TENTHS (FATHOMS / FEET)	REDUCED SOUNDINGS OFFICE FEET / TENTHS (FATHOMS / FEET)
15	h. m. s. 10-49-30	9.5			0.7	9 0	
	50	0 / 11.0				7.0	
	50-10	5 / 11.0				0 / 10	
	30	0 / 11.0				0 / 10	
	50	9.0				8	
	51-10	9.2				8 1/2	
	30	8.5				8	
	50	8.0				7	
16	52-00	5.5				5	
	20	6.3				5 1/2	
	40	5.0				4	
17	50	7.3				6 1/2	
	53-10	8.0				7	
	30	5.5				5	
	50	6.0				5	
	54-10	7.5				7	
	30	7.8				7	
	50	0 / 10.0				0 / 9	
	55-10	0 / 11.0				0 / 10	
	30	10.5				10	
	50	10.5				10	
	56-10	9.0				8	
18	20	8.0				7	
19	10-57-30	5.2				4 1/2	
	50	4.7				4	
	58-10	4.1				3 1/2	
	30	3.7				3	
	50	3.2				2 1/2	
	59-10	2.9				2	

Soundings

Colorado River

Boat used Francis S ; day

BOTTOM	HEADING BY Boat COMPASS	ANGLES AND RANGES BEARINGS LOG READINGS ENGINE REVOLUTIONS	REMARKS
Hrd.S	152	15) Fork of Colorado River and Culver Cut.	Running down Colorado River in deepest water
Hrd S			
	c/c 60	16) Running Across River	
Hrd S	c/c 167	17) Running 5M from East Bank	Low Speed
	c/c 175		
Mud.			
Hrds.			
	c/c 183	18) Ctr. Line of Main Street Dock	Line Ends
Hrds	183	19) Running 15M off East Bank - 125M South of Ctr. Line of Dock	Line Begins Sand Bar in River River 70M Wide - Passing Shell dredge digging out Channel - about 5M Stb. Beam.

SOUNDINGS Matagorda

Year 1934 Month March Day of Month 23

POSITION NUMBER	TIME MER. 90 A M.	SOUNDINGS FEET	SOUNDINGS TENTHS	CORRECTIONS LEAD LINE / TUBES / ECHO FEET FATHOMS	CORRECTIONS SLOPE FACTOR FATHOMS	CORRECTIONS RED. FOR TIDE FEET FATHOMS	REDUCED SOUNDINGS FIELD FEET FATHOMS	REDUCED SOUNDINGS FIELD TENTHS FEET	REDUCED SOUNDINGS OFFICE FEET FATHOMS	REDUCED SOUNDINGS OFFICE TENTHS FEET
	h. m. s.									
	10-59-30	3	8			0.7	3			
	50	8	7				8			
	11-00-10	0/11	0				0/10			
	30	0/11	0				0/10			
	50	0/11	0				0/10			
	01-10	0/11	0				0/10			
	30	8	8				8			
	50	6	3				5	1/2		
	02-10	6	3				5	1/2		
	30	5	7				5			
	50	5	5				5			
	03-10	5	3				4	1/2		
	30	0/10	5				0/9			
	50	0/11	0				0/10			
	04-10	9	0				8			
	30	5	4				4	1/2		
	50	4	5				4			
	05-10	3	2				2	1/2		
	30	2	8				2			
	50	3	0				2			
	~~06-10~~									
20	06-10	6	3				5	1/2		
	30	8	3				7	1/2		
	50	7	8				7			
	07-10	9	4				8	1/2		
	30	10	6				10			
	50	5	0				4			
	08-10	7	8				7			
	30	6	0				5			
21	50	7	0				6			
	09-10	7	8				7			
	30	10	0				9			
	50	0/11	0				0/10			
	10-10	10	7				10			
	30	0/11	0				0/10			
	50	7	8				7			
	11-10	0/11	0				0/10			

Sublocality 9

Colorado River

Boat used Francis S ; day

BOTTOM	HEADING BY Boat COMPASS	ANGLES AND RANGES BEARINGS LOG READINGS ENGINE REVOLUTIONS	REMARKS
Hrds	c/c 178		
			8 M. from West Bank.
	c/c 162		
Hrds			
			Inc. Speed
			throttle loose on engine
			Speed somewhat Variable
	c/c 130		Passing thru deepest part of River
	c/c 125		
Hrds.			Willows 30 ft high on bank
			prevents seeing any signals
			Banks about 5 ft. high
	c/c 130	(20) 8 M. from East Bank	
	of c/c 135		
S Mud Hrds			Inc. Speed.
S H M Hrds	c/c 180	(21) Bend Rt	Running about ctr of River
M & S.			

Locality

SOUNDINGS Matagorda

Year 1934 Month March Day of Month 23

POSITION NUMBER	TIME MER. 90 A M.	SOUNDINGS FEET	SOUNDINGS TENTHS	CORRECTIONS LEAD LINE / TUBES / ECHO FEET FATHOMS	CORRECTIONS SLOPE FACTOR FATHOMS	CORRECTIONS RED. FOR TIDE FEET FATHOMS	REDUCED SOUNDINGS FIELD FEET FATHOMS	REDUCED SOUNDINGS FIELD TENTHS FEET	REDUCED SOUNDINGS OFFICE FEET FATHOMS	REDUCED SOUNDINGS OFFICE TENTHS FEET
22	h. m. s. 11-11-30	0	10			0.7	0	10		
	50	8	0				7			
	12-10	10	7				10			
	30	7	7				7			
	50	5	5				5			
	13-10	5	5				5			
	30	6	5				6			
	50	7	8				7			
	14-10	8	0				7			
	30	7	3				6	1/2		
	50	7	0				6			
	15-10	7	5				7			
	30	6	2				5	1/2		
	50	8	2				7	1/2		
	16-10	6	5				6			
	30	7	5				7			
	50	7	2				6	1/2		
	17-10	7	3				6	1/2		
	30	7	3				6	1/2		
	50	8	7				8			
	18-10	7	2				6	1/2		
23	30	8	7				8			
	50	9	10				9			
	19-10	8	5				8			
	30	7	0				6			
	50									
24	50	6	5				6			
	20-10	7	0				6			
	30	6	5				6			
	50	6	3				5	1/2		
	21-10	6	5				6			
	30	7	5				7			
	50	8	5				8			
	22-10	7	3				6	1/2		
	30	7	0				6			
	50	7	8				7			

Colorado River

Boat used Francis S ; day

BOTTOM	HEADING BY Boat / COMPASS	ANGLES AND RANGES BEARINGS LOG READINGS ENGINE REVOLUTIONS	REMARKS
	c/c 167	22) Bend Left	
Blue Clay			
Hrds			
			Wind Inc. S.S.E Force 4
			Lg. Chop - Sea
Sft Mud			
& Sand			
Brown Clay	c/c 183	23) Bend Rt	
	c/c 193	24) Bend Rt	Flat - Marsh Land on
			both sides - Banks on
			both side 2½' high.
			Spoil Banks on both
			sides

Locality

SOUNDINGS Matagorda

Year 1934 Month March Day of Month 23

POSITION NUMBER	TIME Mer. 90 A M.	SOUNDINGS FEET / FATHOMS	SOUNDINGS TENTHS / FEET	CORRECTIONS Lead Line / Tubes / Echo FEET FATHOMS	CORRECTIONS SLOPE FACTOR FATHOMS	CORRECTIONS Red. for Tide FEET FATHOMS	REDUCED SOUNDINGS FIELD FEET FATHOMS	REDUCED SOUNDINGS FIELD TENTHS FEET	REDUCED SOUNDINGS OFFICE FEET FATHOMS	REDUCED SOUNDINGS OFFICE TENTHS FEET
	h m s 11-23-10	6	8			0.7	6			
	30	7	4				6	1/2		
	50	0	0				9			
	24-10	8	5				8			
	30	7	5				7			
	50	7	3				6	1/2		
	25-10	0	0				9			
	30	10	0				9			
	50	9	3				8	1/2		
	26-10	10	2				9	1/2		
	30	8	5				8			
	50	8	0				7			
	27-10	8	6				8			
	30	8	5				8			
	50	0	0				9			
	28-10	10	0				9			
	30	9	5				9			
	50	10	0				9			
	29-10	8	5				8			
	30	9	0				8			
	50	7	5				7			
	30-10	8	5				8			
	30	8	5				8			
	50	7	8				7			
	31-10	7	8				7			
	30	7	8				7			
	50	7	4				6	1/2		
	32-10	7	5				7			
	20	7	5				7			
	40	7	3				6	1/2		
	33-00	8	0				7			
	20	8	2				7	1/2		
	40	8	5				8			
	34-00	8	3				7	1/2		
	20	8	5				8			
25	40	9	8				9			

Colorado River

Boat used Francis S ; day

BOTTOM	HEADING BY Boat COMPASS	ANGLES AND RANGES BEARINGS LOG READINGS ENGINE REVOLUTIONS	REMARKS
Sft Brown Clay			
Hrd Brown Mud (Sft)			
			Spoil bank on both sides 1½' high - Bay wash outside of Spoil Banks on both sides. Impossible to obtain fix
			Logs on flats in bay on both sides, outside of Spoil banks.
Hrd Sft M. Hrd			
			End of Logs on Port Beam - Spoil banks on both sides 10 M. Wide
Sft M Hrd			
		25 Ctr. of River about 70 M Wide	Line Breaks

Locality

SOUNDINGS Matagorda

Year 1934 Month March Day of Month 23

POSITION NUMBER	TIME Mer. 90 A M. h. m. s.	SOUNDINGS Feet / Fathoms	SOUNDINGS Tenths / Feet	CORRECTIONS Lead Line, Tubes, Echo — Feet Fathoms	CORRECTIONS Slope — Factor Fathoms	CORRECTIONS Red. for Tide — Feet Fathoms	REDUCED SOUNDINGS Field Feet / Fathoms	REDUCED SOUNDINGS Field Tenths / Feet	REDUCED SOUNDINGS Office Feet / Fathoms	REDUCED SOUNDINGS Office Tenths / Feet
26	11-37-00	9	5			0.7	9			
	20	10	5				10			
	40	6	0				5			
	38-00	4	7				4			
	20	4	3				3	1/2		
	40	4	0				3			
	39-00	3	8				3			
	20	4	0				3			
27	40	3	8				3			
	40-00	3	8				3			
	20	3	4				2	1/2		
	40	3	6				3			
	41-00	3	8				3			
	20	4	0				3			
	40	4	1				3	1/2		
28	42-00	4	2				3	1/2		
	P.M.									
29	12-38-30	6	4				5	1/2		
	50	6	6				6			
	39-10	6	7				6			
	30	6	5				6			
	50	6	0				5			
	40-10	5	0				4			
	30	4	8				4			
	50	4	6				4			
	41-10	4	6				4			
	30	4	4				3	1/2		
	50	4	2				3	1/2		
	42-10	4	0				3			
	30	3	8				3			
	50	3	9				3			
	43-10	3	8				3			
	30	3	7				3			
	50	3	6				3			

Sworocarry

Colorado River & Matagorda Bay

Boat used Francis S ; day

BOTTOM	HEADING BY Boat COMPASS	ANGLES AND RANGES BEARINGS LOG READINGS ENGINE REVOLUTIONS	REMARKS
Hrdb Sft M	193	26) Line Cont. Same as Pos. 25	Line Cont. Dec Speed.
			Channel 25 M. Wide Logs on both sides.
Sft M & Ck	188	27) Entrance to open Water in bay.	End of logs on both Sides at Spoil bank.
		28) Temp. Stake in Channel at Usual travelled Route	Line Ends
Hrd	200	29) BN. 5 Middle Channel 6 M Port Beam Day Beacon.	Begin Line
Sft M (Brown)			Impossible to obtain fixes.

Locality

SOUNDINGS Matagorda

Year 1934 Month March Day of Month 23

POSITION NUMBER	TIME MER. 90 M. P	SOUNDINGS FEET	SOUNDINGS TENTHS	CORRECTIONS LEAD LINE / TUBES / ECHO	CORRECTIONS SLOPE	CORRECTIONS RED. FOR TIDE	REDUCED SOUNDINGS FIELD FEET	REDUCED SOUNDINGS FIELD TENTHS	REDUCED SOUNDINGS OFFICE FEET	REDUCED SOUNDINGS OFFICE TENTHS
	~~FATHOMS~~	~~FEET~~		FEET FATHOMS	FACTOR FATHOMS	FEET ~~FATHOMS~~	~~FATHOMS~~	FEET	FATHOMS	FEET
	h. m. s.									
	12-44-10	3	5			0.7	3			
	30	3	5				3			
	50	3	5				3			
	45-10	3	5				3			
	30	3	6				3			
	50	3	7				3			
	46-10	3	8				3			
	30	3	8				3			
	50	3	7				3			
	47-10	3	7				3			
	30	3	8				3			
	50	3	8				3			
	48-10	3	9				3			
	30	3	9				3			
	50	4	0				3			
	49-10	4	0				3			
	30	4	0				3			
	50	4	0				3			
	50-10	4	0				3			
	30	4	0				3			
	50	4	1				3	1/2		
	51-10	4	1				3	1/2		
	30	4	1				3	1/2		
	50	4	2				3	1/2		
	52-10	4	3				3	1/2		
	30	4	4				3	1/2		
	50	4	4				3	1/2		
	53-10	4	4				3	1/2		
	30	4	5				4			
	50	4	5				4			
	54-10	4	5				4			
	30	4	6				4			
	50	4	8				4			
	55-10	4	8				4			
	30	4	7				4			
30	50	4	8				4			

Boat used Matagorda Bay Francis S ; day

BOTTOM	HEADING BY Boat COMPASS	ANGLES AND RANGES BEARINGS LOG READINGS ENGINE REVOLUTIONS	REMARKS
	Left M		Bottom extremely soft
			On range with Beacons
		30) Impossible to obtain fix	End of line Bay depth same Not dredged

Locality

SOUNDINGS Matagorda

Year 1934 Month March Day of Month 23

POSITION NUMBER	TIME MER. 90 D M. h. m. s.	SOUNDINGS FEET / FATHOMS	SOUNDINGS TENTHS / FEET	CORRECTIONS LEAD LINE / TUBES / ECHO FEET FATHOMS	CORRECTIONS SLOPE FACTOR FATHOMS	CORRECTIONS RED. FOR TIDE FEET FATHOMS	REDUCED SOUNDINGS FIELD FEET / FATHOMS	REDUCED SOUNDINGS FIELD TENTHS / FEET	REDUCED SOUNDINGS OFFICE FEET / FATHOMS	REDUCED SOUNDINGS OFFICE TENTHS / FEET
31	1-12-50	6	3			0.8	5	1½		
	13-10	6	5				5	1½		
	30	6	5				5	1½		
	50	6	7				6			
	14-10	6	7				6			
	30	8	8				8			
	50	0/10	0				0/10			
	15-10	0/11	0				0/11			
	20	8	0				7			
	30	7	5				6	1½		
	50	7	5				6	1½		
	16-10	6	8				6			
32	15	6	8				6			
33	1-18-20	6	8				6			
	40	4	5				3	1½		
	1900	4	4				3	1½		
	20	4	2				3	1½		
	40	4	1				3			
	20-00	3	6				3			
	20	3	6				3			
	40	3	6				3			
	21-00	3	5				2	1½		
	20	3	3				2	1½		
	40	3	2				2	1½		
	22-00	3	2				2	1½		
	20	3	1				2			
	40	3	1				2			
	23-00	3	0				2			
	20	3	0				2			
	40	3	0				2			
	24-00	2	9				2			
	20	3	0				2			
	40	3	0				2			

Middle Channel & Matagorda Bay

Boat used Francis S ; day

BOTTOM	HEADING BY Boat COMPASS	ANGLES AND RANGES BEARINGS LOG READINGS ENGINE REVOLUTIONS	REMARKS
~~SH~~	20	31 BN. 5-6 M. Stb. B. Ctr. of Middle Channel	Begin line Shell Reef on both sides
		Day Beacon	
~~SH~~			
		32 BN 3-8 M Stb. Beam	Line Breaks - Stopped to put footing on Sounding Pole.
		Day BN.	
~~SH~~	105	33 BN. 3-8 M	Line Continues
~~SH~~		Stb Beam Day Beacons	

Course Averaged - Engineer inexperienced in running Compass Course

Locality

SOUNDINGS Matagorda Bay

Year 1934 Month March Day of Month 23

POSITION NUMBER	TIME Mer. 90 / P M.	SOUNDINGS FEET / FATHOMS	SOUNDINGS TENTHS / FEET	CORRECTIONS Lead Line / Tubes / Echo FEET FATHOMS	CORRECTIONS Slope FACTOR FATHOMS	CORRECTIONS Red. for Tide FEET FATHOMS	REDUCED SOUNDINGS Field FEET / FATHOMS	REDUCED SOUNDINGS Field TENTHS / FEET	REDUCED SOUNDINGS Office FEET / FATHOMS	REDUCED SOUNDINGS Office TENTHS / FEET
	h. m. s.									
	1-25-00	2	9			0.8	2			
	20	3	0				2			
	40	2	9				2			
	26-00	3	0				2			
	20	2	9				2			
	40	2	9				2			
	27-00*	2	9				2			
	20	3	0				2			
	40	3	0				2			
	28-00	3	0				2			
	20	2	9				2			
	40	2	9				2			
	29-00	2	9				2			
	20	2	9				2			
	40	2	9				2			
	30-00	2	9				2			
	20	2	9				2			
	40	2	9				2			
	31-00	2	9				2			
	20	2	9				2			
	40	2	9				2			
	32-00	2	9				2			
	20	2	9				2			
	40	3	0				2			
	33-00	3	0				2	✓		
	20	3	2				2	1/2		
	40	3	5				2	1/2		
	34-00	3	7				3			
	20	3	8				3			
	40	3	8				3			
	35-00	3	8				3			
	20	3	8				3			
	40	3	8				3			
	36-00	3	9				3			
	20	4	1				3			
34	40	4	4				3	1/2		
	37-00	4	5				3	1/2		
	20	4	5				3	1/2		
	40	4	8				4			

Matagorda Bay

Boat used Francis S ; day

BOTTOM	HEADING BY Boat COMPASS	ANGLES AND RANGES BEARINGS LOG READINGS ENGINE REVOLUTIONS	REMARKS
Sft M			
			* Logs on both sides
			Wind So. East Force 3
Sft M	ofc 65	34) Bend at Intersection of River	

Locality

SOUNDINGS Matagorda

Year 19 34 Month March Day of Month 23

POSITION NUMBER	TIME MER. 90 M. 4	SOUNDINGS FEET	SOUNDINGS TENTHS	CORRECTIONS LEAD LINE / TUBES / ECHO	CORRECTIONS SLOPE	CORRECTIONS RED. FOR TIDE	REDUCED SOUNDINGS FIELD FEET	REDUCED SOUNDINGS FIELD TENTHS	REDUCED SOUNDINGS OFFICE FEET	REDUCED SOUNDINGS OFFICE TENTHS
	~~FATHOMS~~	~~FEET~~		FEET FATHOMS	FACTOR FATHOMS	FEET ~~FATHOMS~~	~~FATHOMS~~	FEET	FATHOMS	FEET
	h. m. s. 1-38-00	5	0			0.8	4			
	20	5	0				4			
	40	5	0				4			
	39-00	5	0				4			
	20	5	0				4			
	40	5	0				4			
	40-00	5	0				4			
	20	5	1				4			
	40	5	1				4			
	41-00	5	1				4			
	20	5	2				4	1/2		
	40	5	2				4	1/2		
	42-00	5	2				4	1/2		
	20	5	3				4	1/2		
	40	5	3				4	1/2		
	43-00	5	3				4	1/2		
	20	5	4				4	1/2		
	40	5	4				4	1/2		
	44-00	5	4				4	1/2		
	20	5	4				4	1/2		
	40	5	4				4	1/2		
	45-00	5	4				4	1/2		
	20	5	4				4	1/2		
	40	5	3				4	1/2		
	46-00	5	4				4	1/2		
	20	5	3				4	1/2		
	40	5	3				4	1/2		
	47-00	5	3				4	1/2		
	20	5	2				4	1/2		
	40	5	2				4	1/2		
	48-00	5	3				4	1/2		
	20	5	3				4	1/2		
35	40	5	2				4	1/2		

Sounding

Matagorda Bay

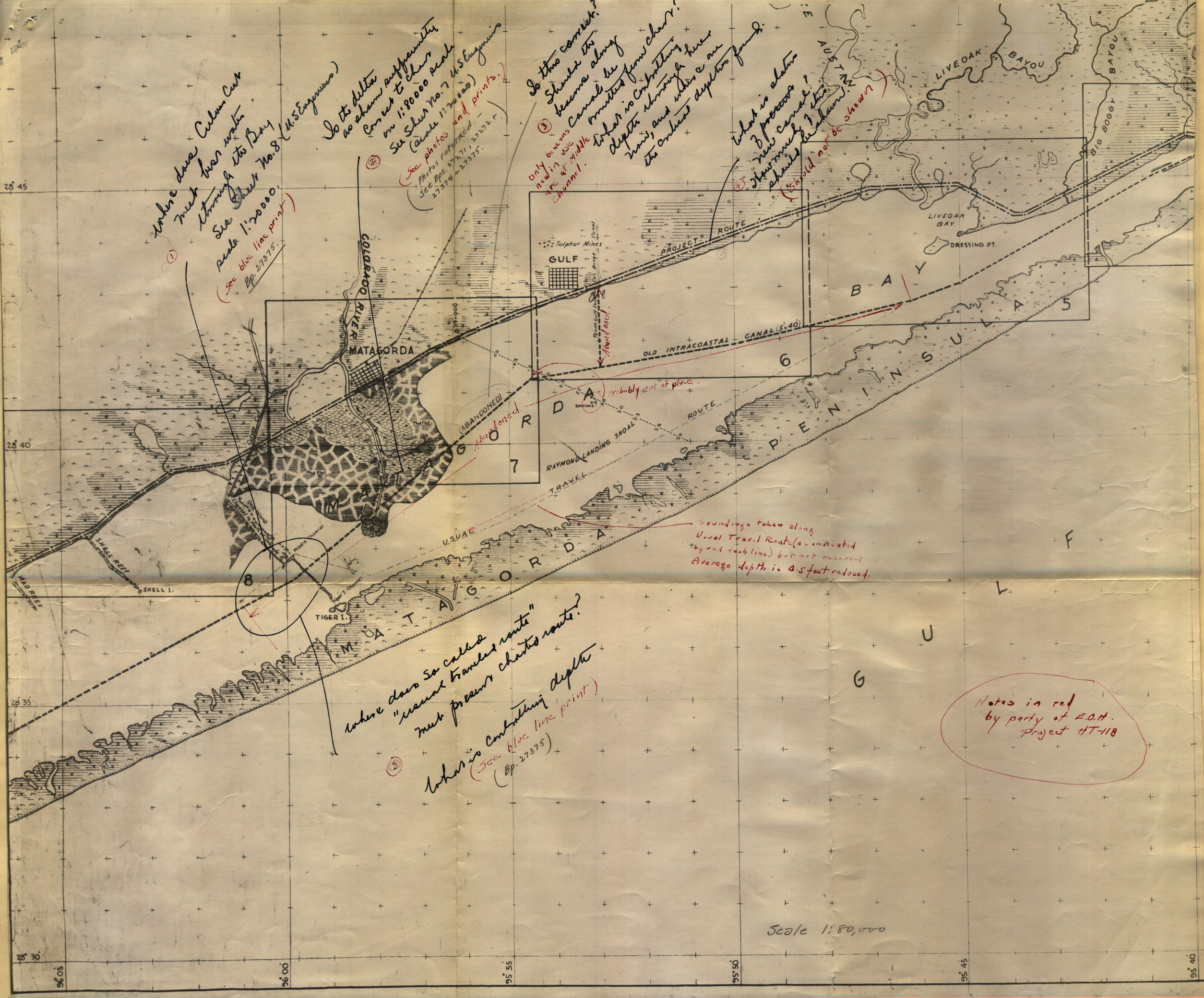
Boat used Francis S ; day

BOTTOM	HEADING BY Boat COMPASS	ANGLES AND RANGES BEARINGS LOG READINGS ENGINE REVOLUTIONS	REMARKS
Sft.M.			
	C/C 55		
			Running Approx. ½ Mile of Shore.
	C/C 50		
		Sounding Rd by W.H.W.	
		" Ckd by GEW	
		Trans Jerrid by LDW	
		Copy Ckd by GEW	
Sft M		35 Beam of Sta. USED about ½ Mile Off Shore	Line Ends

SOUNDINGS

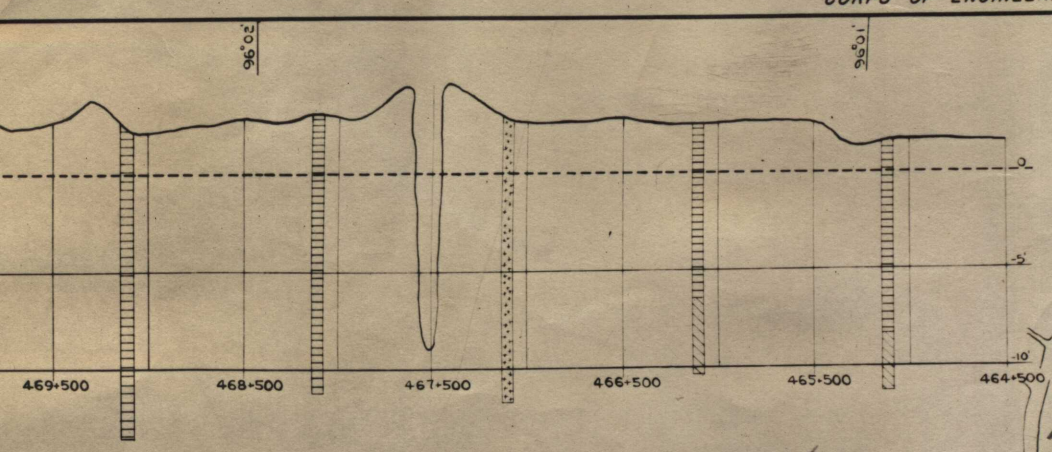
Year 19 *Month* *Day of Month*

POSITION NUMBER	TIME MER. ____ ____ M.	SOUNDINGS		CORRECTIONS			REDUCED SOUNDINGS			
				LEAD LINE / TUBES / ECHO	SLOPE	RED. FOR TIDE	FIELD		OFFICE	
		FEET	TENTHS				FEET	TENTHS	FEET	TENTHS
		FATHOMS	FEET	FEET FATHOMS	FACTOR FATHOMS	FEET FATHOMS	FATHOMS	FEET	FATHOMS	FEET
	h. m. s.									

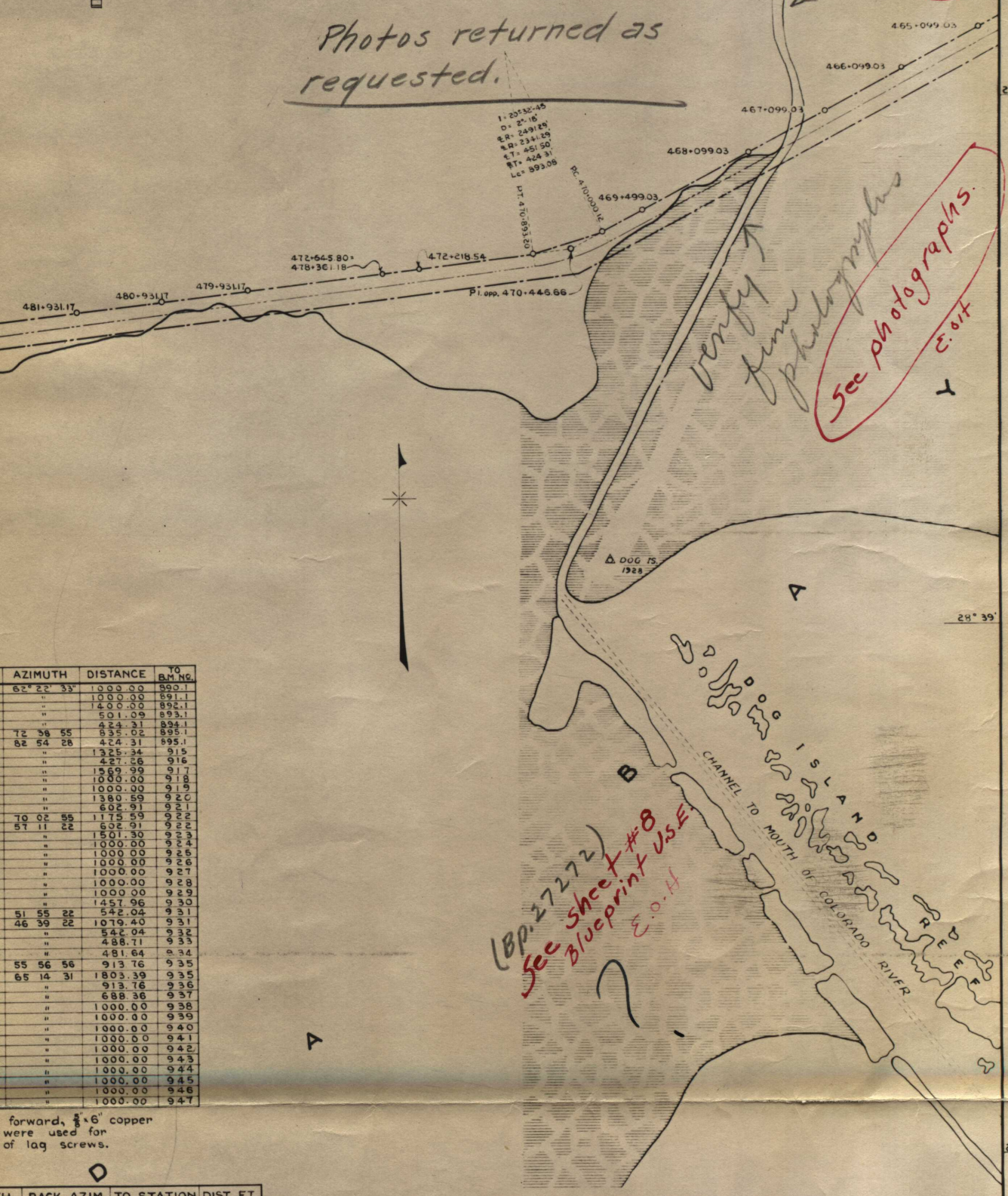


Where does Culver Cut meet bear water through the Bay
See Sheet No. 8 (U.S. Engineers) scale 1:20000.
(See blue line print) Bp. 27375.
Is the delta as shown sufficiently correct to chart on 1:80000 scale
See Sheet No. 7 U.S. Engineers (scale 1:20000)
(See photos and prints.)
Photos returned. See Bps. 27271, 27272 + 27374 + 27375.
Is this correct? Should the beacons along Canal be omitted from chart?
Only beacons now in use are at Middle Channel.
What is contrasting depth through here now, and where are the critical depths found.
What is status of present new canal? How much of this should be shown?
(Should not be shown)
Sulphur Mines
GULF
PROJECT ROUTE
LIVEOAK BAY
DRESSING PT.
BIG BOGGY BAYOU
LIVEOAK BAYOU
COLORADO RIVER
MATAGORDA
Texas Gulf Sulphur Co's Barge Canal
Abandoned
OLD INTRACOASTAL CANAL (5'x40')
Probably out of place
(ABANDONED)
Abandoned
RAYMOND LANDING SHOAL
ROUTE
TRAVEL
USUAL
Soundings taken along Usual Travel Route (as indicated by red dash line) but not recorded
Average depth is 4.5 feet reduced.
SHELL REEF
SHELL I.
MAD REEF
TIGER I.
Middle Channel
Tiger I. Channel
MATAGORDA BAY
PENINSULA
GULF
Where does so called "usual traveled route" meet present charted route?
What is contrasting depth
(See blue line print) (Bp. 27375)
Notes in red by party of E.O.H. Project HT-118
Scale 1:80,000
28° 45'
28° 40'
28° 35'
28° 30'
96° 05'
96° 00'
95° 55'
95° 50'
95° 45'
95° 40'

CORPS OF ENGINEERS, U. S. ARMY



Photos returned as requested.



	AZIMUTH	DISTANCE	TO B.M. NO.
	62° 22' 33"	1000.00	890.1
	"	1000.00	891.1
	"	1400.00	892.1
	"	501.09	893.1
	"	424.31	894.1
	72 38 55	835.02	895.1
	82 54 28	424.31	895.1
	"	1325.34	915
	"	427.26	916
	"	1569.99	917
	"	1000.00	918
	"	1000.00	919
	"	1380.59	920
	"	602.91	921
	70 02 55	1175.59	922
	57 11 22	602.91	922
	"	1501.30	923
	"	1000.00	924
	"	1000.00	925
	"	1000.00	926
	"	1000.00	927
	"	1000.00	928
	"	1000.00	929
	"	1457.96	930
	51 55 22	542.04	931
	46 39 22	1079.40	931
	"	542.04	932
	"	488.71	933
	"	481.64	934
	55 56 56	913.76	935
	65 14 31	1803.39	935
	"	913.76	936
	"	688.36	937
	"	1000.00	938
	"	1000.00	939
	"	1000.00	940
	"	1000.00	941
	"	1000.00	942
	"	1000.00	943
	"	1000.00	944
	"	1000.00	945
	"	1000.00	946
	"	1000.00	947

forward, $\frac{3}{8}$"x6" copper were used for of lag screws.

D

H	BACK AZIM.	TO STATION	DIST. FT.
77"	253° 28' 26.5"	MAD IS. 2	18471.7
.6"	243° 47' 55.0"	G	10286.0
.2"	256° 19' 33.3	R Sta 523+230	17025.3

LOUISIANA AND TEXAS

INTRACOASTAL WATERWAY

SECTION 8, BRAZOS RIVER TO PASS CAVALLO
SURVEY OF 1927-8-33

IN SHEETS SHEET NO. 8 SCALE, 1: 10,000

1000 0 1000 2000 3000 Ft.

U.S. ENGINEER OFFICE, GALVESTON, TEX. JAN. - 1934

SUBMITTED: R.B. Gillette, Jr. ENGINEER

SUBMITTED: E.H. Marks LT. COL., CORPS OF ENGINEERS DISTRICT ENGINEER

SURVEYED BY C.A.R.
DRAWN BY A.S.C.

FILE NO. 16-4-4