HORIZONTAL CONTROL DATA

by the National Ocean Survey OLD HAWAIIAN DATUM QUAD 211572 STATION 1051 HAWAII LATITUDE 21 ° 00' TO 21 ° 30' LONGITUDE 157 ° 00' TO 157 ° 30' DIAGRAM NF 4-16

Port (Molokai Island, R. W. Woodworth, 1925).—On western coast of Molokai, 25 feet above high water on the southerly side of the rocky point ½ mile north of Puu o Kaiaka (the hill on which the loading tower is situated), and ½ mile north of a frame house, the only one in the vicinity. Station is 5 feet lower in elevation than the highest part of the point, and is marked according to note 3, a standard bronze tablet set in concrete in a depression in outcropping bedrock. Three reference marks all standard bronze tablets with arrows pointing toward Three reference marks, all standard bronze tablets with arrows pointing toward the station, were set in concrete in depressions in outcropping bedrock, note 12b, at the following distances and azimuths from the station: No. 1, 13.92 meters (45.7 feet), 350° 07'; No. 2, 18.20 meters (59.7 feet), 153° 45'; No. 3, 14.01 meters (46.0 feet), 246° 00'.

RECOVERY NOTE. TRIANGULATION STATION RECOVERY NOTE, TRIANGULATION STATION

R

NAME OF STATION: Port

ESTABLISHED BY: 2. W. .. RECOVERED BY: " .. T.S.

YEAR: 1025 STATE: Hawaii YBAR: 1962 COUNTY: Mau!

Detailed statement as to the fitness of the original description; including marks found, stampings, changes made, and other pertinent facts:

Station and reference marks were recovered in good condition. No check was made on the distance to the reference marks. Description is adequate and correct except for the loading tower and frame house which have been removed.

RECOVERY NOTE, TRIANGULATION STATION

NAME OF STATION: Port

ESTABLISHED BY: R. W. W. YEAR: 1926 RECOVERED BY-

R.L. Newsom YEAR: 1967

STATE: Hawaii BENCH MARK(8) ALSO COUNTY Maui

AIRLINE DISTANCE AND DIRECTION FROM NEAREST TOWN:

Six (6) miles NW of Mauna Loa

Detailed statement as to the fitness of the original description; including marks found, stampings, changes made, and other pertinent facts: Station and reference marks recovered as previously described

and found to be in good condition.

PORM C&G5-526 (11-68)

U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION

STATE HAWAII

1925

THIRD

G-SP156 SOUND OBSERVATION CHECK ON THIS POSITION

21 °11 '41.34 GEODETIC LATITUDE: SCALED 157 15 06.76 GEODETIC LONGITUDE: FEET

A ANGLE
12 42

PLANE AZIMUTH HAS BEEN COMPUTED BY THE B OR & FORMULA NEGLECTING THE SECOND TERM.

TO STATION OR OBJECT	GEODETIC AZIMUTH (From south)	PLANE AZIMUTH *	CODE
	diction and the Control		
		-	

Q1 590

HORIZONTAL CONTROL DATA

by the National Ocean Survey OLD HAWAIIAN DATUM QUAD 211572 STATION 1052
HAWAII
LATITUDE 21 °00' TO 21 °30'
LONGITUDE 157 °00' TO 157 °30'
DIAGRAM NF 4-16 MAUI

Pukauahi (Molokai Island, Hawaiian Government Survey; R. W. Woodworth, 1925).—In southwest Molokai. In 1925 station searched for and that the pile of stones marking the station had been removed.

Porn 328

RECOVERY NOTE, TRIANGULATION STATION

R

NAME OF STATION: PUPAUATI

EGYARLISHED BY: P., V.W. YEAR: 1925 STATE: HEWE'L RECOVERED BY: H.J.S. YEAR: 1962 COUNTY: L'EUI

Island-1'olokai

Detailed statement as to the Stness of the original description; including marks found, stampings, changes made, and other pertinent facts:

The location of the station was plotted on m U.S. O.S. oundrands and the orea visited. A thorough search of the area was mide but not — the that might have been used to mark the station was found.

The station should be considered lost.

Name of chief of party should be inserted here. The officer who actually visited the station should says us name at the end of the recovery nets.

Norm.—One of these forms must be used for every station recovered,

Coms.—DC 24314

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION

STATE: HAWAII

1925

SECOND

-OBOEB

SOURCE: G-SP156

GEODETIC LATITUDE:	21 06 45.628	ELEVATION	250	METERS
GEODETIC LONGITUDE	157 10 31.508	SCALED		FEET

STATE & ZONE	CODE	×	Υ	8 IOR A BI ANGLE
HI 2	5102	326,591.69	283,335.70	- 0°11'00

*PLANE AZIMUTH HAS BEEN COMPUTED BY THE $\, g \, \, {
m ior} \, \Delta \, \, a_1 \, \, {
m formula}$ neglecting the second term

TO STATION OR OBJECT	GEODETIC AZIMUTH (From south)	PLANE AZIMUTH (From south)	CODE
	0 , ,	0 , "	11
	1000		
	Company of the last of the las		

Q1 569

HORIZONTAL CONTROL DATA

by the National Ocean Survey OLD HAWAIIAN DATUM QUAD 211572 STATION 1053 HAWAII 21 °00' TO 21 °30' LATITUDE LONGITUDE 157 ° 00' TO 157 ° 30' DIAGRAM NF 4-16 MAUI

RM 1

RM 2

12c

12c

DESCRIPTION OF TRIANGULATION STATION

NAME OF STATION: FULAKOU

Surface-station mark, Underground-station mark

VCR. Molokai MKK

STATE: Hawaii

COUNTY: Maui Island: Molokai

YEAR: 1962 CHIEF OF PARTY: H.J. 308 DOTE NOTE, | HEIGHT OF TELESCOPE ABOVE STATION MARK 1.46 METERS.

MAUNA LOA 1872 1926 (HGS)

Described by: J. R. S. HEIGHT OF LIGHT ABOVE STATION MARK METERS. DISTANCES AND DIRECTIONS TO AZIMUTH MARK, REFERENCE MARKS AND PROMINENT OBJECTS WHICH CAN BE SEEN FROM THE GROUND AT THE STATION DISTANCE 00 00 00.00 68 50 05 -182 29 27 -7.967 7.511 26.14 24.65

(about 1.5 mile) 329 49 13.4

Station is located, airline, about 9 miles west of Kaunakakai, 4.0 east northeast of the town of Mauna Loa, on the east end of a small ridge.
To reach the station from the junction of State mighways 45 & 46, just south of the Post Office in Kaunakakai, go westerly on State Highway 46 for 7.1 miles to a fork and sign "MAUNA EOA". Keep left and follow State Highway 46 for 5.75 miles to a dirt crossroad at the top of the grade, and sign on right "UNITED STATES COAST GUARD". Turn left and go southerly on road through pineapple field for 0.2 mile to gate on right, at north end of grove of trees. Bear right, through gate, and follow graded road for 0.4 mile to a T-intersection, turn left and go 0.1 mile to a looked gate on the left; pass through gate and follow road .7 mile to a board gate, pass through gate and follow road southeast 0.7 mile to the top of the hill and a track road on the right.

ENE

SSE

Turn right and follow the track road for 0.2 mile to the southeast edge of the hill and the station mark.

The station mark is a standard disk stamped, PUNAKOU 1962, set in the top of a concrete post that projects 1 inch, 4.8 feet east of a white witness post.

Reference mark No. 1 is a standard disk stamped, PUNAKOU NO 1 1962 cemented in a drill hole in a boulder that projects about 1 foot above the surface of the ground.

Reference mark No. 2 is a standard disk stamped, FUNAKOU NO 2 1962, cemented in a drill hole in a boulder that projects about 1 foot above ground.

MAUNA LOA can be used as the azimuth.

Porm 526 (11-8-85)

U.S. DEPARTMENT OF COMMERCE - COAST AND GRODETIC SURVEY RECOVERY NOTE, TRIANGULATION STATION

R

NAME OF STATION: PURAKOU

ESTABLISHED BY: H.J. Seaborg YBAR: 1962 STATE: Hawaii RECOVERED BY: E.P. Cline YBAR: 1964 COUNTY: Haui

Island: Molokai

Detailed statement as to the fitness of the original description; including marks found, stampings, changes made, and other pertinent facts:

was recovered as described in 1962. The original to-reach description is adequate.

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION PUNAKOU

STATE: HAWAII

1962

SECOND

SOURCE G-12734

STATE COORDINATES (Feet)							
STATE & ZONE	CODE	* ×	٧	OR A B ANGLE			
HI 2	5102	354,740.92	289,369.87	- 0 10 25			

PLANE AZIMUTH HAS BEEN COMPUTED BY THE # OR A 4 FORMULA NEGLECTING THE SECOND TERM,

TO STATION OR OBJECT	GEODETIC AZIMUTH (From south)	PLANE AZIMUTH * (From south)	CODE
MAUNA LOA	154 25 58.7	154 36 28	5102

HORIZONTAL CONTROL DATA

by the National Ocean Survey OLD HAWAIIAN DATUM

OUAD 211572 STATION 1054
HAMAII
LATITUDE 21 °00' TO 21 °30'
LONGITUDE 157 °00' TO 157 °30'
DIAGRAM NF 4-16 MAUI STATION 1054

NO. TEXT

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION PUNAKUA

STATE: HAWAII

YEAR. 1925

THIRD

ORDER

SOURCE G-SP156

DECORATION 1006: 21 00 03.66 157 16 32.08	ELEVATION	METERS FEFT
---	-----------	----------------

STATE COORDINATES (Fert)							
STATE & ZONE	CODE	×	ν	# IOR A BI ANGLE			
HI 2	5102	292,435.42	279,221.15	- 0°13′09			
	The same of the same						

 ullet PLANE AZIMUTH HAS BEEN COMPUTED BY THE ~artheta~ I OR Δ ~arphi I FORMULA NEGLECTING THE SECOND TERM,

TO STATION OR OBJECT	GEODETIC AZIMUTH (From south)	PLANE AZIMUTH * (From south)	CODE
	0	36	
		* * *	

HORIZONTAL CONTROL DATA

by the National Ocean Survey OLD HAWAIIAN DATUM QUAD 211572 STATION 1055
HAWAI I
LATITUDE 21 ° 00' TO 21 ° 30'
LONGITUDE 157 ° 00' TO 157 ° 30'
DIAGRAM NF 4-16 MAUI

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY FORTEL 893 DESCRIPTION OF TRIANGULATION STATION

NAME OF STATION: PUNAKUA 2

STATE: Hawaii

County: Maui
Island: Molokai

Described by: R.F. Hanson

NOTE,	HEIGHT OF TELESCOPE ABOVE		1.37	WETERS.1		LIGHT ABOVE STA	
2	Surface-station mark, Underground-station mark Underground-station mark						S AND PROMINENT OBJECTS STATION
		BEARING	D15	TANCE	DIRECTION		
		NECT			feet	metere	
	HALENA	-					00 00 00.00
120	RM 2			SE	14.81	4.513	67 12 22 -
12c	RM 1			NNE	22.70	6.918	340 45 17 -
	1						

Station is located, airline, about h-3/h miles southwest of the village of Mauna Loa, 1-3/h miles west-northwest of the sand-loading plant at Hale O Lono Point, 2-1/2 miles east of Laau Point which is the westernmost point of Molokai Island, and 1/2 mile north of the south coast of the island, on the summit of a redrock and brushy knoll of about 298 feet elevation.

To reach from the post office in Mauna Loa, go westerly on State Highway 46 for 0.25 mile to a graded side road sharp left, after rounding a right curve in the highway. Turn sharp left and go southwest for 1.0 mile to a Tourction. Turn right and go west on wide graded road for 0.4 mile to a fork. Take right fork and go 0.25 mile to station FOHAKUHOA on the right. Continue westerly on graded road for 1.05 miles to wash. Cross wash and continue on graded road along fence line for 0.5 mile to a locked gate. Pass through gate and continue for 0.4 mile to a T-junction just

left of a cattleguard. Turn left and follow wide sand road for 1.7 miles to a track road right, at top of grade. Turn right and go westerly for 0.65 mile to a fork. Take left fork for 0.15 mile to crossroad at stake. Turn left for 20 yards then take right fork and follow main road for 0.6 mile to grove of trees on right, where fence begins to bear away from road on left. Continue ahead for 0.1 mile to dim side road left. Go left for 0.1 mile to fence corner on left. Pass around fence corner and bear southeast on old track road for 0.3 mile to cairn on right. Turn right and go cross-country south-southwest for 0.15 mile to end of truck travel at left side of shallow rocky wash at edge of dense brush. Pack south-southwest through trees for about 250 yards to summit of knoll and station.

Station mark is a standard disk stamped "PUNAKUA 2 1962", cemented in a drill hole in a 3-foot-diameter red rock outcrop that projects 16 inches above ground. It is on the open north side of the hill, about 10 yards northeast of dense brush.

Reference mark number one is a standard disk stamped "PUNAKUA 2 NO 1 1962", cemented in a drill hole in the west end of a 6-foot-diameter red rock outcrop that projects 2 feet above ground. It is on the northeast slope of the hill and about 2 feet lower than the station.

Reference mark number two is a standard disk stamped "PUNAKUA 2 NO 2 1962", cemented in a drill hole in a 4-foot-diameter, red rock outerop that projects about 2-1/2 feet above ground. It is the highest outerop in the vicinity, is 20 feet northwest of dense brush and is about 1 foot higher than the station.

Station HALENA will serve as the azimuth mark. NOTE: Key for locked gate may be obtained from the Molokai Ranch office in Kaunakakai.

*Refers to notes in manuals of triangulation and state publications of triangulation.

| To nearest motor only, when no trigonometric leveling to being done. | 10-0000-1 | 0. 2. comment reasons over

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION PUNAKUA 2

I I AWAI I

1962

SECOND

SOURCE G-12734

GEODETIC LATITUDE	21 °36 '03.834 157 16 31.878	SCALED	86	METERS FEET

		STATE COORDINATES (Fert)		
STATE & ZONE	CODE	×	¥	# IOR △ #I ANGLE
1 2	5102	292,454.62	279,238.63	- 0°13′.09

PLANE AZIMUTH HAS BEEN COMPUTED BY THE \$ 108 A 41 FORMULA NEGLECTING THE SECOND TERM.

TO STATION OR OBJECT	GEODETIC AZIMUTH (From south)	PLANE AZIMUTH * (Fram south)	CODE
HALENA	263 12 26.0	263 25 35	5102

HORIZONTAL CONTROL DATA

by the National Ocean Survey OLD HAWAIIAN DATUM QUAD 211572 STATION 1056
HAWAII
LATITUDE 21 ° 00' TO 21 ° 30'
LONGITUDE 157 ° 00' TO 157 ° 30'
DIAGRAM NF 4-16 MAUI

NO ORIGINAL TEXT

Porm 526 (11-8-85 U.S. DEPARTMENT OF COMMERCE - COAST AND GEODETIC SURVEY RECOVERY NOTE, TRIANGULATION STATION

NAME OF STATION: PUU ANOANO

ESTABLISHED BY: R.W.W. RECOVERED BY: H.J.S.

Ymam: 1925 Statm: Hawaii Ymam: 1962 County: Maui

Island-Folokni
Detailed statement as to the fitness of the original description; including marks found, stampings, changes made, and other pertinent facts:

was plotted on a U.S.G.S. quadrangle and the area visited. A 2 inch iron pipe, projecting about 12 inches, and in a leaning position was found in the approximate location of the station.

Station is located on a prominent grass covered hill, about 1.3 miles east-northeast of Kalae, about 1.2 miles northwest of Kualapuu, and about 1.2 miles south of the

To reach the station from the post office in Kaulapuu, go 0.7 mile west on State Route 48 to road on right, turn right and take right fork in road, go about 0.9 mile northerly to a gate at the end of cultivated pineapple field, turn right and follow road around edge of pineapple field 1.0 mile to prominent hill on left and end of truck travel. From here pack about 0.1 mile to highest part of hill and station.

Nors.—One of these forms must be used for every station reserved.

Comm.—One of these forms must be used for every station reserved.

Comm.—One of these forms must be used for every station reserved.

NAME OF STATION PUU ANDAND

STATE: HAWAII

YEAR. 1925

THIRD

ORDER

SOURCE: G-SP156

GEODETIC LATITUDE: 21 °10 '07.74 GEODETIC LONGITUDE: 157 01 40.26	ELEVATION.	METERS FEET
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ADJUSTED HORIZONTAL CONTROL DATA

STATE COORDINATES (Feet)				
STATE & ZONE	CODE	×	¥	ORA GIANGLE
HI 2	5102	376,937.54	303,590.43	- 0° 07′50

PLANE AZIMUTH HAS BEEN COMPUTED BY THE # (OR A 4) FORMULA NEGLECTING THE SECOND TERM

TO STATION OR OBJECT	GEODETIC AZIMUTH (From south)	PLANE AZIMUTH * (From south)	CODE
	G. Section Co.		

HORIZONTAL CONTROL DATA

by the National Ocean Survey OLD HAWAIIAN DATUM

QUAD 211572 HAWAI I LATITUDE LATITUDE 21 ° 00' TO 21 ° 30' LONGITUDE 157 ° 00' TO 157 ° 30' DIAGRAM NF 4-16 MAUI

MEPARTMENT OF COMMERCE			and the second second	
U. S. COAST AND GEODETIC SURVEY	DESCRIPTION	OF TRIANGULATION	Intersection	STATIO

Name of Station: Puu Apalu, Tankyear: 1962 State: Hawaii

COUNTY: Maui Island-Molokai

CHIEF OF PARTY: HJS

Description, including sketch of object:

Station is located on Puu Apalu, about 3.5 miles south-southeast of the U.S. Coast Guard, Thio Point, Loran Transmitting Station, about 3 miles north-northwest of Maunaloa, and about 1.5 miles east of the west coast of Molokai Island.

Station is the center of finial on a brownish grey wooden water tank. Tank is about 18 feet high.

Station was located for charting as a landmark.

Described by	

ADJUSTED HORIZONTAL CONTROL DATA

PUU APALU TANK

STATE HAWAII

1962

THIRD

SOURCE G-12734

EVATION	METERS FEET
	LEVATION

STATE & ZONE	CODE	×	¥	B OR A BI ANGLE
HI 2	5102	307,092.61	307,806.13	- 0 12 17

PLANE AZIMUTH HAS BEEN COMPUTED BY THE & IOR A & FORMULA NEGLECTING THE SECOND TERM.

TO STATION OR OBJECT	GEODETIC AZIMUTH (From seuth)	PLANE AZIMUTH * (From south)	CODE
		0	

HORIZONTAL CONTROL DATA

by the National Ocean Survey OLD HAWAIIAN DATUM QUAD 211572 STATION 1058
HAWAII
LATITUDE 21 ° 00' TO 21 ° 30'
LONGITUDE 157 ° 00' TO 157 ° 30'
DIAGRAM NF 416 MAUI

NO ORIGINAL TEXT

FORM 526-

U.S. DEPARTMENT OF COMMERCE

RECOVERY NOTE, TRIANGULATION STATION

NAME OF STATION: PUU HAKINA ESTABLISHED BY: R.W.W. RECOVERED BY: H.J. SONDOR

YEAR: 1925 YEAR: 1962 STATE: Hawaii COUNTY: Maui

Island: Molokai

A 1-inch iron pipe with a target pole centered

over it was recovered. A complete description follows:

Station is located, airline, about 3-1/2 miles southwest of the village of kauna Loa, 1/2 mile north of the south shore line and 0.6 mile northwest of the H.C.& D. Company's sand loading plant at Hale O Lone Point, on the west slepe of a brushy knoll of about 325 feet elevation.

To reach from the post office in Mauna Loa, go west on State Highway 46 for 0.25 mile to a graded side road left, after rounding a right turn in the highway. Turn sharp left and go southwest for 1.0 mile to a T-junction. Turn right and go west on wide graded road for 0.4 mile to fork. Take left fork, main cindered road, and go 0.5 mile to fence corner on left. Continue ahead on main road for 0.25 mile to a graveled side road left, 0.1 mile before reaching a black water tank. Turn left and go southerly 0.15 mile to a fence corner on left. Continue southerly along fence line for 0.6 mile to fork. Take left fork, through gate, then take right fork and go 0.15 mile to locked gate. Pass through gate and go 0.15 mile to fork. Take right fork and continue on main graveled road for 0.35 mile to a side road right. Turn right and go 0.4 mile to a fork. Take left fork and go 0.1 mile to junction with wide sand road. Turn left and go downgrade on sand road for 0.15 mile to a left curve in road. Here leave road and turn back sharp right down through trees and across draw fer 0.1 mile to dim crossroad. Bear left and follow track road southwest down along crest of ridge for 0.3 mile to station on left.

Station is marked by a l-inch iron pipe projecting 10 inches above ground and surrounded by a circle of rocks. It is 27 yards south of center line of track road and about 50 yards west of high point of hill.

No reference objects were found.

NOTE: Key to locked gate may be obtained from the Molokai Ranch Office in Kaurakakai.

*Name of chief of party should be inserted here. The officer who actually visited the station should sign his name at the end of the recovery note.

NOTE - One of these forms must be used for every station recovered.

USCOMM-DC 27179-P91

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION PUU HAKINA

HAWAII

1925

THIRD

- ORDER

G-SP156

GEODETIC LATITUDE: 21 °05 '55.25 ELEVATION: GEODETIC LANGITUDE: 157 15 19.48	METERS FEET
--	----------------

		STATE COORDINATES (Feet)		
STATE & ZONE	CODE	×	Ψ	# IOR A # I ANGLE
HI 2	5102	299,306.84	278,344.71	- 0°12′43

* PLANE AZIMUTH HAS BEEN COMPUTED BY THE # IOR A PI FORMULA NEGLECTING THE SECOND TERM

GEODETIC AZIMUTH (From south)	PLANE AZIMUTH * (From worth)	con
36	2342	
-		
	(From south)	(From south) (From wouth)

HORIZONTAL CONTROL DATA

by the National Ocean Survey OLD HAWAIIAN DATUM

QUAD 211572 STATION 1059 HAWAII 21 ° 00' TO 21 ° 30' LATITUDE LONGITUDE 157 ° 30' TO 157 ° 30' DIAGRAM NF 4-16

NO ORIGINAL TEXT

Puu Iloli (Maui County, Hawaii, H.G.S., 1885; E. R. Hand, 1915).— On southern coast of Molokai, on small hill of same name, 400 meters from shore, 160 meters above road, at a point 6½ miles west from Kaunakakai. It is 1½ miles west of deep cove where mangrove is planted, and at base where the steep slopes of Mauna Loa join the comparatively gentle slopes which lie west of Kaunakakai. In 1915 a large whitewashed cairn was found over the station, so marks were not searched for.

PUU ILOLI (Maui County, Hawaii, H.G.S., 1885; 1930) --Station was recovered as described. A large whitewashed cairn still exists over the station, so the marks were not searched for.

COAST AND GEODETIC SURVEY

RECOVERY NOTE, TRIANGULATION STATION

PUU ILCLI NAME OF STATION: HGS ESTABLISHED BY: RECOVERED BY: H. J. Seaborg

YEAR: 1885 YEAR1962

STATE: Hawaii Island: Molokai COUNTY: Mau1

HEIGHT OF TELESCOPE ABOVE STATION MARK 1.39 METERS. HEIGHT OF LIGHT ABOVE STATION MARK

OBJECT	DISTA		ANCE	1		
	BEARING	PEET	METERS	l °	IRECTI	ON
PUNAKOU RM 1 RM 2	ne wy	24.85 24.87	7•576 7•583	00 92 343	00 11 18	00.0 21 17

Station is located about 6 a miles miline west of Kaunakakai, along the south shore of Molokai Island, on a small hill of the same name,

To reach the station from the Post Office in Kaunakakai go westerly on State Highway 46 for 2.6 miles to a reverse-Y on left at bottom of grade. Turn sharp right and go south on old paved road to second side road right. Turn right and go west on gravel road for 1.45 miles to a fork, take right fork across cattle guard for 0.15 mile to a reverse-Y on right. Angle left and go west for 0.65 mile to a fork.

Take right fork straight ahead for 0.9 mile to a fork. Take right fork along the top of a dike for 0.6 lile to a crossroad. Continue ahead on dike road for 1.0 mile to fork, take right fork off of dike and continue on track road for 0.7 mile to metal gate. Pass through gate for 0.25 mile to the end of truck travel. From here pack northerly through trees to the base of a ridge. Follow game trail up left side of ridge for about 200 yards to the top of the hill and station.

The station mark is a standard disk stamped, PUU ILOLI 1915 1962, brazed to the top of a 1-k inch iron pipe that is set in cement and projects 8 inches above the surface of the ground, 7 feet northwest of a 4 X 4 post that is set on top of a group of large boulders that projects about 3 feet above the surrounding area.

Reference mark No. 1 is a standard disk stamped, PUU ILOLI NO 1 1915 1962, cemented in a drill hole in a lave boulder that projects two feet above ground and about two feet higher than the station.

Reference mark No. 2 is a standard disk stamped, PUU ILOLI NO 2 1915 1962, cemented in a drill hole in a lava boulder that projects I foot and is about level with the station mark.

Station KALA will serve as the azimuth mark.

(R.L.N., 1967) -- Station and all reference marks recovered as described. Description adequate and correct.

Name of chief of party should be inserted here. The officer what the trially visited the station should sign his name at the end of the recovery note.

> NOTE - One of these forms must be used to station recovered.

USCOMM-DC 27178-PS9

ADJUSTED HORIZONTAL CONTROL DATA

PUU ILOLI NAME OF STATION

STATE HAWAII

1885

SECOND

OBOFR

SOURCE G-12734

GEODETIC LATITUDE:	21 °06 ′28.859 157 07 08.538	SCALED	7 METERS

STATE & ZONE	CODE	x	*	B IOR A BI ANGLE
HI 2	5102	345,804.52	281,585.71	- 0°09′47

TO STATION OR OBJECT	GEODETIC AZIMUTH (From south)	PLANE AZIMUTH * (From wath)	CODE
PUNAKOU	124 57 59.6	125 07 47	5102

HORIZONTAL CONTROL DATA

by the National Ocean Survey OLD HAWAIIAN DATUM QUAD 211572 STATION 1060 HAWAII LATITUDE 21 ° 00' TO 21 ° 30' LONGITUDE 157 ° 00' TO 157 ° 30' DIAGRAM NF 4-16 MAUI

NO ORIGINAL TEXT

Hawaii, Hawaiian Government

PUU KAPELE (Maui County, Hawaii, Hawaiian Government Survey, 1885; Hawaiian Territorial Survey, 1932)
--Station was originally marked with a redwood post and box signal, which finally rotted down, and the station was marked by a 2-in. pipe in 1924 by the H.T.S.

Station, now marked by a Type B monument, is situated on the summit of the hill of the same name, 200 ft. from the edge of the seacoast, and about 1000 ft. N of the N boundary of Lot 91 of the Hoolehua-Palaau Homesteads. The present station mark is 1 ft. lower than the original station.

There is an observation sheet for this station in the H.T.S. files.

(11-8-85)

RECOVERY NOTE, TRIANGULATION STATION

NAME OF STATION: PULL KAPILI

ESTABLISHED BY: GOV't. of ". YEAR: 1885 STATE: Hownii RECOVERED BY: " .J.S. YBAR: 1962 County: l'aui

H.I. 1.75m

Island-l'olokai
Detailed statement as to the fitness of the original description; including marks found, stampings, changes made, and other pertinent facts:

Station recovered in good

Station is located on the north coast on a prominent hill, about 7.0 miles west of Kalaurana, about 2.5 riles north of the Molokai Mi port, about 2.4 riler northnorthwest of Kualanuu, and about 200 feet south of the coast.

To reach the station from the junction of State Routes 46 and 481 about 1.5 miles east of the Molokai Airport, so 1.4 miles north on State Houte 481 to junction with State Route 48, turn left go 2.0 miles west to intersection with field road, turn right 70 0.7 mile north to intersection with field road, turn left and cross cattleguard in fenceline on right, take track road on right just after crossing cattleguerd, so 0.5 mile north to fork in road, take right fork shout 0.5 mile north to base of prominent hill and end of truck travel. From here pack about 0.05 mile northwest to station on murrit of hill. & A-wheel vehicle can be driven up the southeast slope of the hill to the surmit and along the surmit to the station.

State survey, Type B now over station.

Porm 526 (11-8-55)

U.S. DEPARTMENT OF COMMERCE - COAST AND GRODETIC SURVEY RECOVERY NOTE, TRIANGULATION STATION

R

NAME OF STATION: PUU KAPELE ESTABLISHED BY: Haw . GOV . SURV . YEAR: 1885 STATE: Hawaii RECOVERED BY: E.P. Cline YEAR: 1964 COUNTY: Maui

Island: Molokai

Detailed statement as to the fitness of the original description; including marks found, stampings, changes made, and other pertinent facts:

Station was not visited but the Hawaii Territorial Survey "Type B" signal was seen and observations made on it.

RECOVERY NOTE, TRIANGULATION STATION

R

NAME OF STATION: PUU KAPELE ESTABLISHED BY: Gov't of HawaiiYEAR: 1885

STATE: Hawaii BENCH MARK(S) ALSO COUNTY: Maui

Island: Molokai

RECOVERED BY: R. L. N. YEAR: 1967 AIRLINE DISTANCE AND DIRECTION FROM NEAREST TOWN:

Detailed statement as to the fitness of the original description; including marks found, stampings, changes made, and other pertinent facts:

Station found in good condition as previously described.

ADJUSTED HORIZONTAL CONTROL DATA

PUU KAPELE

HAWAII

1885

SECOND

SOURCE: G-12734

2i °11 '47.765 GEODETIC I ATITUDE METERS SCALED 157 35 40.474 GEODETIC LONGITUDE: PEET

STATE COORDINATES (Feet)				
STATE & ZONE	CODE	×	٧	# IOR A BI ANGLE
H1 2 '	5102	354,229.55	313,739.20	- 0 09 17
				10.0

PLANE AZIMUTH HAS BEEN COMPUTED BY THE # IOR A Q FORMULA NEGLECTING THE SECOND TERM

TO STATION OR OBJECT	GEODETIC AZIMUTH	PLANE AZIMUTH " (From mustl-)	CODE	
- H		#I 5,#31		

HORIZONTAL CONTROL DATA

by the National Ocean Survey OLD HAWAIIAN DATUM QUAD 211572 STATION 1061
HAWAII
LATITUDE 21 ° 00' TO 21 ° 30'
LORGITUDE 157 ° 00' TO 157 ° 30'
DIAGRAM NF 4-16 MAUI

NO ORIGINAL TEXT

Porm 526 (11-8-55) U.S. DEPARTMENT OF COMMERCE - COAST AND GEODETIC SURVEY RECOVERY NOTE, TRIANGULATION STATION

NAME OF STATION: PUU LUA

ESTABLISHED BY: R.W.W. RECOVERED BY: H.J.S.

Ymam: 1925 Statu: Hawaii Ymam: 1962 County: Maui

Islanti-/clokai
Detailed statement as to the fitness of the original description; including marks found, stampings, changes made, and other pertinent facts:

The station was originally marked with a

red wood post but in 1935 the post war replaced with a 2 inch iron ripe.

Station is located on the northwest one of two wooded hills, about 2 miles north-

Strtion is located on the northwest one of two wooded hills, about 2 miles northeast of Kualapuu, about 2 miles southwest of Kalaupapa, and about0.5 mile south of the coast.

Station is marked by a 2' inch iron pipe that projects about 4 inches. A 4 inch iron pipe is located 4.3 feet northwest of the station.

To reach the station from the rost diffice in Kualapuu, go 0.3 mile east on State Route 4S to junction with State Route 47, turn left go 4.3 miles north on State Route 47 to entrance to Palaau State Park on the left, turn left follow road through park 0.6 mile w st to locked gate and end of truck travel. From here pack 0.1 mile west along road to trail on right, take trail to highest part of hill and station in a clumn of tall trees.

"Name of chief of party aboutd be inserted here. The officer who actually valided the station aboutd sign his name at the end of the receivery note.

Nova.—One of these forms must be used for every station received.

Come-DC 34214

ADJUSTED HORIZONTAL CONTROL DATA

R

NAME OF STATION

STATE HAWA

II

YEAR 1925

THIRD

-ORDER

SOURCE: G-SP156

GEODETIC LATITUDE	21 10 43.09	ELEVATION	METERS
GEODETIC LONGITUDE	157 33 38.16		FEET

		STATE COOPDINATES (Feet	100	
STATE & ZONE	CODE	×	¥	# OR A MI ANGLE
HI 2	5102	382,822.75	337,144.06	- 0 07 27

PLANE AZIMUTH HAS BEEN COMPUTED BY THE # IGR & 91 FORMULA NEGLECTING THE SECOND TERM.

TO STATION OR OBJECT	GEODETIC AZIMUTH (From south)	PLANE AZIMUTH * (From worth)	CODE
	40	* *	
		man of	
	The same of the sa		
		126	

HORIZONTAL CONTROL DATA

National Ocean Survey OLD HAWAIIAN DATUM QUAD 211572 STATION 1062 HAWAII LATITUDE 21 ° 00' TO 21 ° 30' LONGITUDE 157 ° 00' TO 157 ° 30' DIAGRAM NF 4-16 MAUI

Puu Luahine (Maui County, Hawaii,

R. W. Woodworth, 1925).—In central Molokai, on the higher and more westerly of two red hills seen about 3 miles north of Kaunakakai village. The hill is most symmetrical and shows up prominently against the skyline. It appears to be elongated in an east and west direction, and a cairn marking station is seen plainly at its western end.

PUU LUAHINE (Maui County, Hawaii, R.W.W., 1925:

ian Territorial Survey, 1930) Station is on a prominent red hill, 5 mi. back of Kaunakakai, elevation is 1210 ft., in the Land of Hoolehua.

Found all three witness crosses on rocks, and a 2- by 3-in. in a large pile of stones agreeing well with the witness marks, but the azimuths to and from other stations (equally well marked) do not agree very precisely with the recorded values. This was

noted by others as well as myself.

Bronze disk, B.M. EL. 1210 FT., was set by the U.S.G.S. and cemented in the same rock as one of the original witness crosses.

Built a concrete monument, with an Hawaii Territory Survey bronze disk, 12- by 12-in., 18 in. below the surface of the ground, and a Type Bl superstructure about 1 ft. above ground, with edges extending 1 ft. below the ground surface, and 1 ft. thick all around, all of boulder concrete. Bench mark and two witness crosses are exposed a little below the surface of the platform.

This is a very valuable station.

RECOVERY NOTE, TRIANGULATION STATION

R

NAME OF STATION: PUU LUAHINE

ESTABLISHED BY: R.W.W. RECOVERED BY: H. J. S.

YEAR: 1925 STATE: Hawaii YMAN: 1962 COUNTY: Maui

Island: Molokai

H.I. 1.82m Detailed statement as to the fitness of the original description; including marks found, stampings, changes made, and other pertinent facts:

OBJECT	BEARING	DISTANCE	DI	RECT	ION
MIDDLE HILL (HGS) 1885			ਨਾ	00	00"
Cross on Boulder	E	2.56 ft.	162	09	50
Cross on Boulder	SW	2.36 ft.	296	00	08
PBM Maunahui (USGS)	WSW	2.56 ft.	306	06	41
Waiahewahewa, Aero Beacon	W	7.0 miles	334	16	41.7

Station was recovered in good condition as described in 1930 by Hawaiian Territory Survey,

To reach the station from the junction of State Routes 45 and 46 at the post office in Kaunakakai, go 4.1 miles northwest on State Route 46 to road on right, turn right go 3.8 miles easterly on grade gravel road to road on right, turn right go 0.4 mile south to end of truck travel at the north edge of gravel pit. Pack easterly up steep slope to station on highest part of hill. About a 5 minute pack. State Survey monument, Type B, now over station.

U.S. DEPARTMENT OF COMMERCE - COAST AND GEODETIC SURVEY RECOVERY NOTE, TRIANGULATION STATION

R

NAME OF STATION:PUU LUAHINE ESTABLISHED BY: R.W.W.

YEAR: 1925 STATE: Hawaii RECOVERED BY: * L.F. WOODCOCK YEAR: 1965 COUNTY: Maui

ISLAND: Molokai

Detailed statement as to the fitness of the original description; including marks found, stampings, changes made, and other pertinent facts:

Station was recovered as described in good condition.

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION PUU LUAHINE

IIAWAH HAWAII

YEAR 1925

SECOND

-ORDER

SOURCE. G-12734

GEODETIC LATITUDE	21 °07 ′56.615 157 00 55.87J	SCALED	369	METERS
deobe ne conditione				PEET

STATE COORD NATES (Feet)				
STATE & ZONE	CODE	×	٧	# OR A SI ANGLE
HI 2	5102	381,109.78	290,351.05	- 0°07′33

PLANE AZIMUTH HAS BEEN COMPUTED BY THE 8 OR A 4 FORMULA NEGLECTING THE SECOND TERM.

TO STATION ON OBJECT	GEODETIC AZIMUTH (From south)	PLANE AZIMUTH * (From sauth)	CODE
MIDDLE HILL	119 46 04.0	119 5 3 37	5102
	*		

HORIZONTAL CONTROL DATA

by the National Ocean Survey OLD HAWAIIAN DATUM

QUAD 211572 STATION 106
HAWAII
LATITUDE 21 °00' TO 21 °30' STATION 1063 LONGITUDE 157 ° 00' TO 157 ° 30' DIAGRAM NE 4-16 MAUI

NO ORIGINAL TEXT

Pora 526 (11-8-85)

U.S. DEPARTMENT OF CONMERCE - COAST AND GEODETIC SURVEY RECOVERY NOTE, TRIANGULATION STATION

NAME OF STATION: PUU O HOLEHUA

ESTABLISHED BY: R.W.W. RECOVERED BY: E.J.S.

YEAR: 1925 STATE: Hawaii YEAR: 1962 COUNTY: Maui

Island-Nologai
Detailed statement as to the fitness of the original description; including marks found, stampings, changes made, and other pertinent facts:

The location of the station was plotted on a U.S.

G.S. quadrangle and the area visite! A thorough search of the area was made but nothing that might have been used to mark the station was found.

The station should be considered lost.

*Name of chief of party should be inserted here. The officer who actually visited the station should sign his name at the end of the recovery not Norg.—One of these forms must be used for every station recovered. Conn-DC 34314

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: PUU O HOLEHUA

1925

SECOND

SOURCE: G-SP156

GEODETIC LATITUDE	21 °37 ′17.166 157 07 50.510	SCALED	229	METERS FEET

T		
×	▼	# IGR A BI ANGLE
341.844.62	286,471.16	- 0 10 02
	341.844.62	

PLANE AZIMUTH HAS BEEN COMPUTED BY THE BURN OF FORMULA NEGLECTING THE SECOND TERM

GEODETIC AZIMUTH (From south)	PLANE AZIMUTH *	CODE
	(Frame south)	(Fears south) (Fears south)

HORIZONTAL CONTROL DATA

National Ocean Survey OLD HAWAIIAN DATUM

R

QUAD 211572 STATION 1064 HAWATT LATITUDE 21 °00' TO 21 °30' LONGITUDE 157 ° 00' TO 157 ° 30' DIAGRAM NF 4-16 MAUL

Puu o Kahanui (Maui County, Hawaii, R. W. Woodworth, 1925).—On southern coast of Molokai, on a knoll 3% miles west along coast from Kaunakakai wharf, and 1 mile east of the deep cove where small mangrove is planted, 1,040 meters up from the sea, and 450 meters above government road. From the station the end of Kaunakakai Wharf bears 8. 65° E.; and a prominent square house, red, with pyramidal roof, located down on the beach and belonging to a native named Kahinu or Kanihu bears S. 25° W. Station is on an old grave. Underground mark is a bottle. Surface mark is concrete post 1 foot square, projecting 1 foot above surface of ground, with standard United States Coast and Geodetic Survey bronze disk in top, note 6½. Over the mark a semicircular cairn was erected and painted white.

PUU O KAHANUI (Maui County, Hawaii, R.W.W., 1925; --Station was recovered as described. A loose rock wall enclosure about 40- by 25- by 3ft. high, probably an old native house foundation, is 30 m. S of the station. (9-18-89)

COAST AND GEODETIC SURVEY

RECOVERY NOTE, TRIANGULATION STATION

NAME OF STATION: PUU O KAHANUI ESTABLISHED BY: R.W.W.

STATE: Hawaii Island: Molokai YEAR: 1925

HEIGHT OF TELESCOPE ABOVE STATION MARK 1.44 METERS, HEIGHT OF LIGHT ABOVE STATION MARK DISTANCES AND DIRECTIONS TO AZIMUTH MARK, REFERENCE MARKS AND PROMINENT OBJECTS WHICH CAN BE SEEN FROM THE GROUND AT THE STATION DISTANCE OBJECT DIRECTION FEET METERS PUU ILOLI (HCS) 1885-1915 00 00.00 RM 1 57 42 26 18.1 05 37 6.840 Aero beacon on pole, Waiahewahewa NW 3 Miles RM 2 NNW 39.72 12,100 89 26 21 -

Station is located about 3.75 miles westnorthwest of Kaunakakai, 3 miles southeast of the Molokai Airport and 0.75 mile north of the south coast of Molokai Island, on a low rocky knoll on the south slope of rolling brushy country that rises gradually to the north. The highest point of land is about i mile north of the station.

To reach the station from the junction of State Highways 45 & 46 just south of the Fost Office in Kaunakakai, go westerly on State High-way 46 for 2.6 miles to a reverse-Y on left. Turn sharp left and go 0.15 mile on old paved road to the second side road on the right. Turn right and so west 1.4 miles to a fork and cattle guard, cross cattle guard and go 0,1 mile to a reverse-Y on right. Angle left and go west for 0.2 mile to a power pole with white paint on it, continue anead for 0.05 mile to a point 50 feet before reaching the last power pole along road. At a point marked by a triangle blaze on Keawe tree go right, off of road, and pick way through trees and rocks north for 0.25 to station on rocky knoll.

on rocky knoil.

The station is a standard disk unstamped, set in the top of a 6 concrete post that projects 18 inches, 3.9 feet southwest of a white witness post and is near the center of a large pile of rocks.

Reference mark No. 1 is a standard disk stamped, FUU O KAHANUI NO 1 1>25 1962, cemented in a drill hole in rock outcop that projects

about 18 inches and about 1 g foot lower than the station.

Reference mark No. 2 is a standard disk stamped, FUU O KAHAKUI NO 1, 1925 1962, cemented in a drill hole in rock outcrop that projects 1 foot and is about 3 feet lower than the station.

Station PUU LUAHILE can be used as the azimuth mark.

(continued on next page)

ADJUSTED HORIZONTAL CONTROL DATA

PUU O KAHANUI

HAWAII

1925

SECOND

ORDER

SOURCE G-12734

GEODETIC LATITUDE:	21 °06 '53."771 157 04 33.815	ELEVATION. SCALED	41 METERS

STATE COORDINATES (Feet)				
STATE & ZONE	CODE	×	•	P OR A S ANGLE
HI 2	5102	360,460.88	284,059.55	- 0 08 51

PLANE AZIMUTH HAS BEEN COMPUTED BY THE $\,\,
ho$ for $\Delta\,$ GF. Formula neglecting the second term

TO STATION OR OBJECT	GEODETIC AZIMUTH (From south)	PLANE AZIMUTH * (From south)	CODE
PUU ILOLI	80 16 19.0	80 [°] 25 [′] 10 [°]	5102

HORIZONTAL CONTROL DATA

by the NATIONAL GEODETIC SURVEY OLD HAWAIIAN DATUM

QUAD 211572 STATION 1064 LATITUDE LONGITUDE · 10 · / TO 0 /

DIAGRAM

PUU O KAHANUI (continued)

RECOVERY NOTE, TRIANGULATION STATION

NAME OF STATION: PUU O KAHANUI STATE: Hawaii BENCH MARK(8) ALSO

ESTABLISHED BY: R.W.W. RECOVERED BY: R.L.N.

YEAR: 1925 AIRLINE DISTANCE AND DIRECTION FROM NEAREST TOWN:

YEAR: 1967

COUNTY: Maui

Island: Molokai

3.75 West North West of Kaunakaka1
Detailed statement as to the fitness of the original description; including marks tound, standings, changes made, and other pertinent facts:

Station and all reference marks recovered as described. Description adequate and correct.

PORM C&G\$-526 (11-68) USCOMM-DC 36260-Pes

U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY

HORIZONTAL CONTROL DATA

National Ocean Survey OLD HAWAIIAN DATUM

QUAD 211572 STATION 1065 HAWAI I LATITUDE 21 ° 00' TO 21 ° 30' LONGITUDE 157 ° 30' TO 157 ° 30' DIAGRAM NF 4-16 MAUI

Puu o Kaiaka (Maui County, Hawaii,
R. W. Woodworth, 1925).—On western coast of Molokai, on the most southerly of two 100-foot knobs about 60 meters apart on hill of same name, about 2½ miles south of Ilio Point, and at northeast end of beach 2 miles long. A derivative of the control of the control of the coast of th rick and loading platform for the near-by pineapple plantation is located on the western extremity of the same hill. Station is at the seaward or west end of a stone inclosure (fish lookout) about 20 by 30 feet in size. No center mark was found in 1915, but the three reference crosses were found, and a ring of paint placed around each. These marks were at the following distances from station: No. 1, to north, 3 feet; No. 2, to east and at end of stone wall, 5 feet; and No. 3, to west, 5 feet. The distances between reference marks were as follows: Nos. 1 to 2, 7.1 feet; Nos. 2 to 3, 7.9 feet; and Nos. 3 to 1, 8 feet. Paint was placed on corner of wall to serve as hydrographic signal. In 1925 the three reference marks were recovered, but the distances between them did not agree with the distances given in the earlier descriptions, the new distances being as follows: Nos. 1 to 2, 7.09 feet; Nos. 2 to 3, 8.14 feet; and Nos. 3 to 1, 7.21 feet. A new mark put in consisted of a standard United States Coast and Geodetic Survey bronze disk, stamped 1925, and set in a mass of concrete, bed rock, and bowlders. Its distances from the reference marks are as follows: No. 1, 3.0 feet; No. 2, 5.01 feet; and No. 3, 4.96 feet.

PUU O KAIAKA (Maui County, Hawaii, R. W. W., 1925 ; K.T.A -This station was re-1929) covered and conforms with the description in every detail except that the derrick, mentioned, no longer stands on the loading

(O.W.S., 1930) -- Station is on the W coast of Molokai Island. It was recovered as described. Boulders are around the end of the wall whitewashed for a signal.

(C.T.H.,1950) -- Station was recovered as described and in good condition. All reference marks are crosses cut on stone. Station is located on property of the Molokai Ranch, and a key to locked gates must be procured from their office.

ADJUSTED HORIZONTAL CONTROL DATA

PUU 0 KAIAKA

HAWAII STATE:

1925

SECOND

ORDER

SOURCE: G-12734

GEODETIC LATITUDE:	21 °11 ′03. °903 157 15 13. 588	SCALED	34	METERS FEET

STATE COORDINATES (Feet)				
STATE & ZONE	CODE	*** **********************************		# OR A ANGLE
HĮ 2	5102	299,979.87	309,487.27	- 0 12 44
	Section 1			

PLANE AZIMUTH HAS BEEN COMPUTED BY THE & OR A & FORMULA NEGLECTING THE SECOND TERM

TO STATION OR OBJECT	GEODETIC AZIMUTH (From tenth)	PLANE AZIMUTH * (From south)	CODE
NA PUU KULUA 2	321 23 39.0	321 36 23	5102
			- 20

QF 284

(continued on next page)

PUU O KAIAKA (continued)

HORIZONTAL CONTROL DATA

NATIONAL GEODETIC SURVEY OLD HAWATIAN DATUM

U.S. DEPARTMENT OF COMMERCE

RECOVERY NOTE, TRIANGULATION STATION

NAME OF STATION: PUU O KATAKA ESTABLISHED BY R.W.W. RECOVERED BY: "H.J.S.

YEAR: 1925 FSTATE: Hawaii YEAR: 1962 COUNTY: Maui

Island: Molokai

HEIGHT OF TELESCOPE ABOVE STATION MARK 1.59 METERS. HEIGHT OF LIGHT ABOVE STATION MARK DISTANCES AND DIRECTIONS TO AZIMUTH MARK, REFERENCE MARKS AND PROMINENT OBJECTS WHICH CAN BE SEEN FROM THE GROUND AT THE STATION DISTANCE OBJECT BEARING DIRECTION METERS NA PUU KULUA 2 1925 00 00.00 25 11 31 25 15.59 34 · 50 · 47 • 4 4.752 167 RM 2 Ilio Pt. Coast Guard Loran Mast NNW (about 2.5 miles 210 Molokai VOR (MKK) SE

The station is located on the western coast of Molokai, 2.5 miles south of the Coast Guard Station, on the most southerly of two 100 foot mobs about 200 feet apart. Station is at the west end of a stone enclosure about 20 by 30 feet in size.

To reach the station from the Post Office in Mauna Loa, go west

on State Highway 46 for 0.25 mile to a graded road on the left. Turn left and go southwest for 1.0 mile to a T-junction. Turn right and go 0.4 mile to a fork. Take right fork and go 0.25 mile to station Pohakuloa on the right. Continue westerly for 1.05 miles, cross wash and continue on graded road for 0.5 mile along fence to a locked gate. Pass through gate and continue westerly for 0.4 mile to a sand road. Turn right on sand road and go 1.7 miles to a fork, turn right and go 1.2 miles to a fork, keep right fork and continue on track road for 1.3 miles to a board gate, just after passing a water tank, pass through gate and continue on track road for 0.7 mile to a track road on the left, turn left and follow track road and wash for 0.2 mile to the end of truck travel. From here pack upnthe hill west and southwest for about

The station is a standard disk stamped 1925 set in the top of a concrete post that projects 1 inch. In the south-west corner of a rock wall that was used as a fish lookout.

Reference mark No. 1 is a standard disk stamped, PUU O KAIAKA NO 1 1915 1925 1962, cemented in a larger boulder that is about 3 feet lower than the station.

Reference Mark No. 2 is a standard disk stamped, PUU O KAIAKA NO 2 1915 1925 1962, cemented in a drill hole in a boulder that projects 6 inches and about 2 feet lower than the station.

RECOVERY NOTE, TRIANGULATION STATION

NAME OF STATION: PUU O KAIAKA ESTABLISHED BY: R.W.W. YEAR: 1925 STATE: BENCH MARK(S) ALSO Hawaii YEAR: 1967 RECOVERED BY: COUNTY: R.L.N. Maui

AIRLINE DISTANCE AND DIRECTION FROM NEAREST TOWN

6 Miles N.W. of Mauna Loa

Detailed statement as to the fitness of the original description, including marks found, stampings, changes made, and other pertinent facts:

Station has been bulldozed over. R.M. #1 was found and a search made for station, but R.M. #1 may have been moved by bulldozer. Station is assumed to be destroyed.

QUAD 211572

STATION 1065

LATITUDE LONGITUDE DIAGRAM

TO

R

HORIZONTAL CONTROL DATA

by the National Ocean Survey OLD HAWAIIAN DATUM

QUAD 211572 STATION 1066 HAWAII 21 ° 00' TO 21 ° 30' LATITUDE LONGITUDE 157 ° 00' TO 157 ° 30' DIAGRAM NF 4-16 MAUI

ADJUSTED HORIZONTAL CONTROL DATA

HAWAII

G-12734

1950

SECOND

ORDER

R

PURM 3400

No reference marks were set. U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

RECOVERY NOTE, TRIANGULATION STATION

SAND (Maui County, Hawaii, C.T.H., 1950) -- Station is located near the NE corner of Molokai Ialand, near the extreme W

end of Ilio Point, on a prominent sand point, about 700 ft. in from the shore, and on government owned land at the proposed site of a U.S. Coast Guard loran station. It is a 1-in. galvanizediron pipe driven into the ground, projecting 8 in. and painted white. The center of the pipe is the station.

NAME OF STATION: SAND ESTABLISHED BY: C.T.H RECOVERED BY: H.J.S.

YEAR: 1950 STATE: Hawaii YEAR: 1960 COUNTY: Maui

Island: Molokai

HEIGHT OF TELESCOPE ABOVE STATION MARK 1.46 METERS. HEIGHT OF LIGHT ABOVE STATION MARK METERS. DISTANCES AND DIRECTIONS TO AZIMUTH MARK, REFERENCE MARKS AND PROMINENT OBJECTS WHICH CAN BE SEEN FROM THE GROUND AT THE STATION OBJECT DIRECTION FEET METERS KAEO 1925 o o 00.00 Ilio Pt. Ceast Guard Loran Mast 10 34 16.6

The station is located on Ilio Pt. and about 300 yards west of the Coast Guard Station on a small sandy knoll.

The station was recovered and found to be in good shape no refer-

ence marks were set. A complete description follows.

ence marks were set. A complete description follows.

To reach the station from the Post Office in Kaunakakai, just north of junctions of State Highways 45 & 46, go westerly on State Highway 46 for 7.1 to a fork and sign "MAUNA LOA". Keep on Highway 46 for 5.75 miles to a dirt crossroad at the top of the grade, and sign on the left "UNITED STATES COAST GUARD". Turn right and go northwest on the graded road for 0.65 mile through the pineapple field to a locked gate. Pass through the gate and follow the Coast Guard road for 4.15 miles the about gate, its after passing correls and loading personal continue. to a board gate, just after passing corrals and loading pens, continue on Coast Guard road for 0.65 mile to a fork, keep left fork leading to the Coast Guard Station for 1.3 miles to a concrete water tank on the right, continue on Coast Guard road for 2.8 miles and just before reaching the Coast Guard Station turn sharp right to the top of a small sand knoll and the station.

The station is a standard disk stamped, SAND 1950, set in the top of a concrete post that is 6 by 6 inches square and projects 4 inches.

RECOVERY NOTE, TRIANGULATION STATION

NAME OF STATION: Sand STATE: Hawail BENCH MARK(B) ALSO C.T.H. YEAR: 1950 ESTABLISHED BY: COUNTY: Maui RECOVERED BY: R.L. Newsom YEAR: 1967 Island: Molokai AIRLINE DISTANCE AND DIRECTION FROM NEAREST TOWN:

7t miles NW of Mauna Loa Detailed statement as to the fitness of the original description; including marks found, stampings, changes made, and other pertinent facts:

Station recovered in good condition as described.

USCOMM-DC 27178-P81

21 °13 '13.018 20 GEODETIC LATITUDE: SCALED METERS 157 15 41.425 GEODETIC LONGITUDE: FEET

STATE COORDINATES (Feet)					
STATE & ZONE	CODE	×	·	8 OR A 41 ANGLE	
HI 2	5102	297,394.36	322,524.69	- 0°12′55	
				H / L	

PLANE AZIMUTH HAS BEEN COMPUTED BY THE | 8 | OR Δ | FORMULA NEGLECTING THE SECOND TERM

TO STATION OR OBJECT	GEODETIC AZIMUTH (From toath)	PLANE AZIMUTH * (From south)	CODE
KAEO	278 15 00.4	278 27 55	5102

HORIZONTAL CONTROL DATA

by the National Ocean Survey OLD HAWAIIAN DATUM

QUAD 211572 LIAWAH LATITUDE 21 °00' TO 21 °30' LONGITUDE 157 ° 00' TO 157 ° 30' DIAGRAM NF 4-16 MALII

NO ORIGINAL TEXT

W.C. 17 (Maui County, Hawaii, R.W.W., 1925

:0.W.S.,

1931)

This station was recovered and it was found to be marked by a cairn of rocks with an old signal pole in its center. A new signal pole was put in place, and the cairn was whitewashed.

DEPARTMENT OF COMMERCE FORM 536 (Rev. Feb. 1968)

RECOVERY NOTE, TRIANGULATION STATION

R

NAME OF STATION: W. C. 17

Hawaii

ESTABLISHED DY: R.W.W. YEAR: 1925 STATE:
RECOVERED DY: W. R. POTTET YEAR: 1957 COUNTY: MAULI

Detailed statement as to the fitness of the original description; including marks found, stampings, changes made, and other pertinent facts:

Recovered as described, except that signal pole has disappeared and most of the whitewash has washed off the cairn of rocks.

Pora 526 (11-8-55)

U.S. DEPARTMENT OF COMMERCE - COAST AND GEODETIC SURVEY RECOVERY NOTE, TRIANGULATION STATION

R

NAME OF STATION: N.C. 17

Established By: R.W.W. YEAR: 1905 State: Hawaii Recovered By: H.J. Seaborg Year: 1962 County: Mani

Island: Molokai

Detailed statement as to the fitness of the original description; including marks found, stampings, changes made, and other pertinent facts: Station was

recovered as described. A new description follows:

Station is located about 3-1/4 miles airline north-northeast of Laau Point, along the west coast of Molokai, on a brush-covered roint, on shore bank. It is marked by a large cairn with a 10-foot 2 x 4 in the center. It has a good view of the ocean but heavy keawe growth blocks view in all directions inland.

To reach from the post office in Mauna Loa, go westerly on State Highway 46 for 0.25 mile to side road left. Go left for 1.0 mile to T-intersection. Turn right and go west 0.4 mile to fork. Take right fork west for 0.25 mile to station POHAKULOA. Continue west for 1.05 miles, cross wash and continue for 0.5 mile to locked gate. Pass through gate and continue for 0.4 mile to T-junction. Turn right and follow wide sand road for 2.9 miles to side road sharp left, just before reaching fork in main road. Go sharp left on track road for 0.3 mile to fork. Take left fork and keep ahead for 0.15 mile to fork. Take right fork, main road, and go 0.75 mile to a side road sharp left and and of truck travel. Pack southwest across open rocky area for about 250 yards to station behind brush at northwest end of the clearing.

RECOVERY NOTE, TRIANGULATION STATION

NAME OF STATION:

ESTABLISHED BY: R.W.W.

YEAR: 1925

STATE:

BENCH MARK(S) ALSO Havaii

RECOVERED BY: R.L.N. YEAR: 1967 AIRLINE DISTANCE AND DIRECTION FROM NEAREST TOWN:

COUNTY: Maui Island; Molokai

8 Miles west of Mauna Loa, Detailed statement as to the fitness of the original description; including marks found, stampings, changes made, and other pertinent facts:

Station was recovered as previously described. A hydrographic signal (12' Tripod) was built over station. ADJUSTED HORIZONTAL CONTROL DATA

HAWAII

1925

THIRD

G-SP156

GEODETIC LATITUDE	21 °08 '56.26	ELEVATION	METERS
GEODETIC LONGITUDE	157 17 27.71	marks on special section in	FEET

IOR A BI ANGLE
0,656.68 - 0 13 31

PLANE AZIMUTH HAS BEEN COMPUTED BY THE $\, eta \,$ OR $\Delta \,$ $\,$ FORMULA NEGLECTING THE SECOND TERM.

TO STATION OR OBJECT	GEODETIC AZIMUTH (From senth)	PLANE AZIMUTH (From south)	CODE
	٠ , ,	0 , •	

HORIZONTAL CONTROL DATA

by the National Ocean Survey OLD HAWAIIAN DATUM

QUAD 211572 STATION 1068 HAWAII 21 ° 00' TO 21 ° 30' LONGITUDE 157 ° 00' TO 157 ° 30' DIAGRAM NF 4-16 MAUI

DESCRIPTION OF TRIANGULATION INTERSECTION STATION

Le COLAT FOR SET D

DESCRIPTION OF TRIANGULATION INTERSECTION STATION

Name of Station: Waishewshews Year: 1962 State: Hawaii Aero Beacon, Red Light CHIEF OF PARTY:HJS

COUNTY: Mau1 Island-Molokai

Description, including sketch of object:

Station is located about 7.5 miles northwest of Kaunakakai, about 5.5 miles east of Maunaloa, about 2.5 miles southwest of the Molokai Airport, and at the east end of eastwest ridge.

Station is center of flashing red warning light atop a 27 foot wooden pole.

Light appears on C&GS Charts 4II6 and 4I20 as a landmark.

RECOVERY NOTE, TRIANGULATION STATION

INTERSECTION NAME OF STATION: Waishewahewa Aero Beacon, Red Light ESTABLISHED BY: H.J.S. YEAR: 1962 STATE: Hawaii BENCH MARK(S) ALSO RECOVERED BY: E. Pursel Jr. YEAR: 1969 COUNTY: Maui Island of Melekai AIRLINE DISTANCE AND DIRECTION FROM NEAREST TOWN: 5.5 miles east of Maunalea

Detailed statement as to the fitness of the original description; including marks found, stampings, changes made, and other pertinent facts: This station was recovered in good condition as described.

PORM C&GS-526 (11-68)

U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION. WAI AHEWAHEWA A ERO BON RED LT

IIAWAH

YEAR 1962

THIRD

- cente

SOURCE: G-12734

GEODETIC LATITUDE: 21 *08 22.962 GEODETIC LONGITUDE: 157 07 34.882		METERS FEET
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STATE COORDINATES (Feet)					
STATE & ZONE	CODE	×	Y	# IOR A # I ANGLE	
HI 2	5102	343,343.43	293,105.47	- 0°09′57°	

PLANE AZIMUTH HAS BEEN COMPUTED BY THE $\, g \,$ OR $\Delta \,$ 4 FORMULA NEGLECTING THE SECOND TERM

TO STATION OR OBJECT	GEODETIC AZIMUTH (From 108(b)	PLANE AZIMUTH * (From santh)	CODE
	10 3.67	96	

HORIZONTAL CONTROL DATA

by the National Ocean Survey OLD HAWAIIAN DATUM

QUAD 211572 STATION 1069 IIAWAH LATITUDE 21 °00' TO 21 °30' LONGITUDE 157 ° 00' TO 157 ° 30' DIAGRAM NF 4-16 MAUI

NO ORIGINAL TEXT

Waieli (Molokai Island, Hawaiian Government Survey 1885; R. W. Woodworth, 1925).—Near southern coast of western Molokai, on prominent hill of same name, 5 miles east of Laau Point and 1 mile back from shore. In 1915 no center marks were found, and the point was reproduced from reference marks which were crosses cut in immovable rock outcroppings. The new mark is a concrete monument with bronze disk in top, note 6½. The distances to the reference marks are: No. 1, 6.7 feet; No. 2, 4.2 feet; and No. 3, 10.76 feet. The distances between the marks are: Nos. 1 to 2, 8.57 feet; Nos. 2 to 3, 14.08 feet; and Nos. 3 to 1, 15.57 feet.

Hawaii, Hawaiian Government Sur-WAIELI (Mau1 County, vey,1885;0.W.S.,1931) is on W Molokai. It was not visited. The highest point of mountain was used for hydrography.

(Hawaiian Territorial Survey,1932)--The original station of 1885 was replaced in 1915 by E.R. Hand with a concrete monument with a brass disk in the top. The station is, at present, marked with a Type B monument and is situated on a prominent hill of the same name, 5 mi. E of Laau Point, and 1 mi. back from shore. Reference ties were verified and checked and found to be correct. There is a triangulation sheet on this station in the H.T.S.

WAIELI (Mau1 County, vey, 1885; J.M.D., 1945)

Hawaii, Hawaiian Government Sur-

-- The station is soon to be disturbed by quarrying operations by Libby, McNeil and Libby,

who are building roads at the W end of the island. A new station, WAIELI 2, was established 319.76 ft. from the station in azimuth $164^{\circ}25^{\circ}30^{\circ}$.

(11-5-05)

files.

RECOVERY NOTE, TRIANGULATION STATION

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NAME OF STATION: WATER.I ESTABLISHED BY: 0.C.J. RECOVERED BY: " U.J.S.

YBAR: 1885 BTATE: Hawaii YEAR: 1962 COUNTY: Prui

Detailed statement as to the fitness of the original description, including maria ound, stampings, changes made, and other pertinent facter

Station is destroyed. Station was not recovered as reported by E.H.R. in 1015 racovery note.

ADJUSTED HORIZONTAL CONTROL DATA

WAIELI NAME OF STATION

HAWAII

SECOND

ORDER

SOURCE G-SP156

ED 171	METERS FEET
ĂĹ	ALED

STATE & ZONE	CODE	×	Y	# IORA 4 ANGLE
1 2	5102	304,904.85	280,388.89	- 0 12 22

PLANE AZIMUTH HAS BEEN COMPUTED BY THE B OR A . FORMULA NEGLECTING THE SECOND TERM

TO STATION OR OBJECT	GEODETIC AZIMUTH (From seath)	PLANE AZIMUTH * (From south)	CODE
		:0 - , *	
	i		

HORIZONTAL CONTROL DATA

by the National Ocean Survey OLD HAWAIIAN DATUM QUAD 211572 HAWAII 21 °00' TO 21 °30' LATITUDE LONGITUDE 157 ° 00' TO 157 ° 30' DIAGRAM NF 4-16 MAUI

DESCRIPTION OF TRIANGULATION STATION

NAME OF STATION: WATELT 2

STATE: Havali

COUNTY: Maui

Described by: Office CHIEF OF PARTY: James M. Dunn YEAR: 1945 NOTE, HEIBHT OF TELESCOPE ABOVE STATION MARK HEIGHT OF LIGHT ABOVE STATION MARK METERS. METERS. DISTANCES AND DIRECTIONS TO AZIMUTH MARK, REFERENCE MARKS AND PROMINENT OBJECTS WHICH CAN BE SEEN FROM THE GROUND AT THE STATION Surface-station mark, Underground-station mark DISTANCE BEARING DIRECTION OBJECT

The station is located near the southern coast of the west and of Molokai Island. It is about 5 miles east of Laau Point and 1 mile back from the shore. The mark is a Territorial Survey brons disk set in the top of a four inch cast iron pipe, two feet long, filled with concrete, and set in concrete.

Three reference marks were set as follows. Reference mark No. 1 is marked by a cross on a cement block 15.75 feet away from the station, in asimuth 206 degrees 28 minutes.

Reference mark No. 2 is marked by a cross on cement filled in a hole in a large rock 19.06 feet away from the station, in azimuth 303 degrees 20 minutes.

Reference mark No. 3 is marked by a cross on a boulder 14.88 feet away from

the station, in asimuth 59 degrees 34 minutes.

Reference mark No. 1 to Reference mark No. 2: 26.14 feet Reference mark No. 2 to Reference mark No. 3: 28.92 feet

Reference mark No. 3 to Reference mark No. 1 : 29.02 feet

U.S. DEPARTMENT OF COMMERCE - COAST AND GEODETIC SURVEY RECOVERY NOTE. TRIANGULATION STATION

R

NAME OF STATION: MATELI 2 ESTABLISHED BY: J.M.D. RECOVERED BY: * 1 .J.S.

Yman: 1945 State: Howeii YEAR: 1062 COUNTY: L'aui

Tal and : 10 ologial statement as to the fitness of the original description; including marks found, stampings, changes made, and other pertinent facts:

Station destroyed. A new station was established in the approximate location MATELI 1915 by a Territory of Hawaii survey party in 1945. This station was destroyed about 2 months ago when the top of the hill was graded. The area is now being excevated for gravel.

This station was replaced by HALTMA 1962 which is located about 0.7 mile west.

Comm-DC 34314

ADJUSTED HORIZONTAL CONTROL DATA

WAIELI 2 NAME OF STATION

1945

THIRD

SOURCE: G- 6566

METERS FEET
LED

STATE COORDINATES (Feet)					
STATE & ZONE	CODE X		▼	8 IDH & BI ANGLE	
HI 2	5102	304,820.12	280,697.24	- 0°12′22	

PLANE AZIMUTH HAS BEEN COMPUTED BY THE & OR A DI FORMULA NEGLECTING THE SECOND TERM.

TO STATION OR OBJECT	GEODETIC AZIMUTH (From south)	PLANE AZIMUTH * (From south)	CODE	

POSITION DETERMINED BY TRAVERSE FROM STATION WAIELI AND CHECKED BY ADDITIONAL OBSERVATIONS

HORIZONTAL CONTROL DATA

by the National Ocean Survey OLD HAWAIIAN DATUM QUAD 211572 STATION 1071
HAWAI I
LATITUDE 21 ° 30′ TO 21 ° 30′
LONGITUDE 157 ° 00′ TO 157 ° 30′
DIAGRAM NF 4-16 MAUI

NO TEXT

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION WATELI

STATE: HAWAII

YEAR 1914

THIRD

HIKD

ORDER

SOURCE: G-SP156
NO OBSERVATION CHECK ON THIS POSITION

GEODETIC LATITUDE:	21 06 19:35		
GEODETIC LONGITUDE:	157 14 24.51	ELEVATION	METERS
			PEET

STATE COORDINATES (Feet)					
STATE & ZONE	CODE	×	٧	ORA STANGLE	
HI 2	5102	304,520.84	280.759.36	- 0°12°23	

*PLANE AZIMUTH HAS BEEN COMPUTED BY THE $\,\, heta\,$ (or $\Delta\,$ 4) Formula neglecting the second term.

	THE SECOND TEXAS.				
TO STATION OR OBJECT	GEODETIC AZIMUTH (From senth)	PLANE AZIMUTH * (From well)	CODE		
		9 6			

HORIZONTAL CONTROL DATA

by the National Ocean Survey OLD HAWAIIAN DATUM QUAD 211572 STATION 1072
HAWAII
LATITUDE 21 ° 00' TO 21 ° 30'
LONGITUDE 157 ° 30' TO 157 ° 30'
DIAGRAM NF 4-16 MAUI

SEE STATION HAUAKEA 2

AD JUSTED HORIZONTAL CONTROL DATA

	AD3031ED	HOMEON					
E OF STATION WALHUNA	AERO BEAC	ON RED LI	GHT				
HAWAI I	V#4	1962			THIR	-086	DE FI
re	764						
G-12734 OBSERVATION			ON	(0)			
ODETIC LATITUDE.	21 °09 ′34. 157 07 54.	145 359		ELE	VATION:		METERS
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STATE & ZONE	CODE	×		٧		в юя Д	a ANGLE
	5102	341.52	0.67	300,2	92.99	- 0	10 04
HI Z	7101						
PLANE AZIMUTH HAS BEEN COM		a A a somethia	NEGI SCTING	THE SECOND TER	м.		
PLANE AZIMUTH HAS BEEN CON	APUTED BY THE 8 TO	NZ 4 FORMOLE		IC AZIMUTH		ZIMUTH *	CODE
TOSTATE	ON OR OBJECT			(From south) (From		mark)	
POSITION DETERM	MINED BY TF	RAVERSE FF	ROM STA	TION HAUA	AKEA 2		
						QF 34	5

HORIZONTAL CONTROL DATA

by the National Ocean Survey OLD HAWAIIAN DATUM

QUAD 211572 STATION 1073 HAWAII 21 ° 00' TO 21 ° 30'

LONGITUDE 157 ° 00' TO 157 ° 30' DIAGRAM NF 4-16

ADJUSTED HORIZONTAL CONTROL DATA

WHITE

1925

THIRD

SOURCE G-SP156

21 °05 '34.813 GEODETIC LATITUDE SCALED 157 13 18.828 GEODETIC LONGITUDE FEET

CODE	×	Ψ.	# OR A 4 ANGLE
5102	310,724.44	276,243.63	- 0 11 59
		•	

TO STATION OR OBJECT	GEODETIC A ZIMUTH (From South)	PLANE AZIMUTH	₹ con€	
	3.83	U 4 A	1	
		1		
	I			

QI 596

NAME OF STATION: W'TT'S

ESTABLISHED BY: R.W.W.

RECOVERED BY: " H.J.S.

YEAR: 1925 STATE: Hawaii. YEAR: 1962 COUNTY: Paul

Island-l'olokal
Detailed statement as to the fitness of the original description; including marks found, stampings, changes made, and other pertinent factors.

White (Molokai Island, R. W. Woodworth, 1925).—On southwest coast of Molokai, about 1½ miles west from Kolo Wharf, atop of the most prominent

sand dune in the vicinity, 19 feet above and 15 meters back from high-water mark. No keawi trees grow within 8 meters of station. Mark is a standard United

No keawi trees grow within 8 meters of station. Mark is a standard United States Coast and Geodetic Survey bronze disk set in top of concrete post 6 inches square projecting 1 foot above surrounding sand. Reference marks, standard bronze tablets with arrows pointing toward station, note 12b, were placed in the immovable bedrock fringing the beach, the distance between the marks being 24.075 meters (78.99 feet). The distances between the station and the reference marks were measured on the slope, the station end of the tape being held 5 feet above the mark. Azimuths and distances were: No. 1, 22.605 meters (74.16 feet) (on slope), 320° 11′; No. 2, 24.078 meters (79.00 feet) (on slope), 26° 09′.

RECOVERY NOTE, TRIANGULATION STATION

The station has been destroyed. The ton 18 inches of the concrete most with dist was found broken off and lying on the surface of the sand. The sand had probably erroded away from around the post. A small section of the concrete post is in place. Reference mark 1 was searched for but not recovered. Reference mark I was recovered in good condition. It is located about 41 feet from the base of the sand hill and is awash at mean high water.

The station could still be used for hydrographic surveys.

Comp-DC 34314