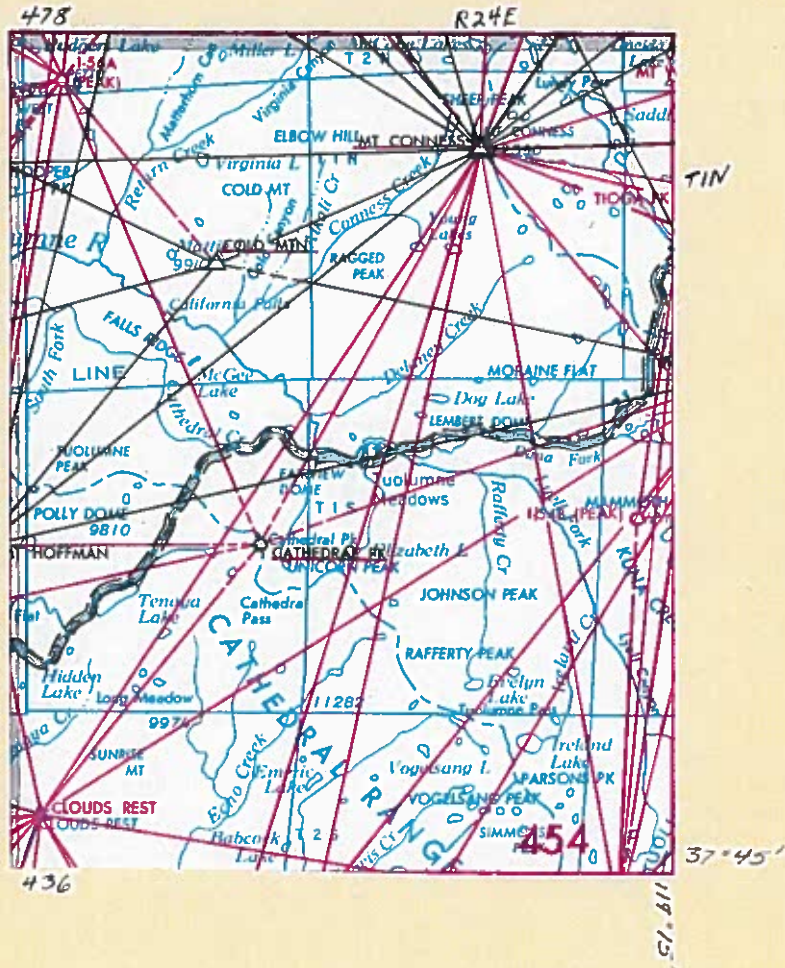


37° 45'
119 15



California (454)

Mariposa County

CLOUDS REST (324 EM)

1927 N.A.D.

C.F. Urquhart, 1905

D.R. Steele, 1952

L.B. Mansfield, 1956

Book: A 244-247; PH 207-208;
PH 244; PH 469-470

Located about 11 mi. SW. of Tuolumne Meadows R.S., 5.5 mi. E. of Yosemite, on highest point of Clouds Rest.

To reach from Tuolumne Meadows R.S., drive W. on State Highway 120 (Tioga Rd.) to Forsyth Trail at W. end of Tanaya Lake and end of rd. Pack S. on Forsyth Trail for 4.6 mi. to Clouds Rest Trail, turn right W. on Clouds Rest Trail for 2.5 mi. to highest point and station. A 3 hour pack.

Station mark: Lead plug in drill hole stamped "324 EM" (stamping very poor). Previously reported as stamped "VA BM 9929".

Reference mark No. 1: Standard reference mark tablet stamped "NO 1 1956" cemented in drill hole in top of solid granite, 18.45 ft. from station mark in azimuth $82^{\circ}07'$.

Reference mark No. 2: Standard reference mark tablet stamped "NO 2 1956" cemented in drill hole in top of solid granite, 19.18 ft. from station mark in azimuth $210^{\circ}56'$.

Image point No. 1: Small bush on top, 41 ft. from station mark and 5 ft. lower in azimuth $190^{\circ}48'$.

Photo No. 1-62 GS VJS Dup

CALIFORNIA ZONE 3
X=2,292,455.
Y= 463,226.

V.A. Elevation: 9926 ft.
(1952)

Latitude: $37^{\circ}46'04.45''$

Longitude: $119^{\circ}29'17.60''$

FILE COPY

3/6/62 lcl *de*

MT. CONNESS (C&GS)

Mono-Tuolumne Counties

Calif. (454)

USC&GS, 1879, 1890, 1934, 1941

1927 N.A.D.

C. F. Urquhart, 1904-05

A. H. Sylvester, 1905

D. R. Steele, 1952

J. C. O'Dea, 1953

USGS, 1956 (not occupied)

Books: A218-247; A677-79; PH 207-08; PH 269-270; PH 469-470

Described in Bul. 181, pages 208-209 and Bul. 310, p. 172.

Described by U. S. Coast and Geodetic Survey in Special Publication 202 and description list 736, p. 31.

Described in Bul. 310, page 172 as follows:

"A primary station of the C&GS, 10 mi. N. of Soda Springs. In shape an irregular parallelogram of granite, from NW. portion of which rises top of peak, with precipitous side of 1,000 ft. or more. It can be ascended from Soda Springs in four hours by trail made by the C&GS. Grass and water can be found within 1 mi. of summit.

"Station mark: Concrete pier, with 5/8-in. copper bolt in center."

Recovered by D.R. Steele, 1952: Station found as described. Original station mark, however, the concrete pier was almost destroyed, but the mark was still solid and in place. Reference mark No. 1 and 3 were found. Reference mark No. 2 and other concrete piers described in Special Publications 202, page 293 were not found.

Recovered by J. C. O'Dea, 1953: Found as described by C&GS in Special Publication 202, pages 293 and 294 and all marks found in good condition. Pier was badly chipped, but the 5/8" copper bolt with cross remains in good shape. Reference mark 3 is standard C&GS tablet and is set in pier as described and is at bottom of saddle about 400 ft. below station.

Station should be reached by driving about 2 mi. past Saddlebag Lake and walking SW. to highest peak and station. Station is on highest lone square-topped mtn. and is 1.6 ft. above highest ground at station.

Station mark: Cross in copper bolt in pier.

Signal: White flag over red over white X-tgts. on pole centered over station mark.

Signal data:	Top flag	14.2 ft.
	Bottom flag	12.5
	Top red X-tgt.	11.1
	Bottom red X-tgt.	8.0
	Top white X-tgt.	8.0
	Bottom white X-tgt.	5.1

Station is 0.8 ft. below top of pier and 1.6 ft. above average ground.

Note: Intersected by USGS, 1956.

~~CALIFORNIA ZONE 3~~

~~X=2,340,081.3~~

~~Y=536,318.2~~

V.A. elevation 12,590.2 (USGS, 1952)

*Latitude: 37°58'01.537"

*Longitude: 119°19'13.018"

*=C&GS Field Values

11/9/56 mk *mt*

FILE COPY

CAL. ZONE 3
 * X = 2,340,076.90
 * Y = 536,324.20
 CAL. ZONE 2
 * X = 2,772,524.57
 * Y = 120,811.76

FILE COPY

37°45'
119 15

CALIFORNIA 454

Index

<u>Station</u>	<u>Project</u>
Cathedral Peak	Yosemite
Clouds Rest (324 EM)	- - - -
Cold Mtn. (C&GS)	Yosemite
Mt. Conness (C&GS)	Yosemite
1-56 A	Yosemite
1-154 B	- - - -

Yosemite Project Master in CALIFORNIA 437 - Book: PH 470

CATHEDRAL PEAK

Mariposa County

Calif. (454)

L. B. Mansfield, 1956 (Not occupied)

1927 N.A.D.(Prelim.)

Books: PH 469-470

No description.

Intersected by U. S. Coast and Geodetic Survey and USGS in 1956

Note: Positions and triangles computed from C&GS field data by USGS.

FILE COPY

CALIFORNIA ZONE 3

X=2,316,308.

Y= 492,631.

**V.A. elevation 10,940.3 ft.

Latitude: 37°50'52.50"

Longitude: 119°24'16.26"

<u>To Station</u>	<u>Azimuth</u>	<u>Back Azimuth</u>	<u>Feet</u>
Mt. Conness(C&GS)	209°13'00."	29°16'06."	49,743.
Mount Dana (C&GS)	250 20 39.	70 27 26.	56,507.

**=Computed from USGS and C&GS data

11/9/56 mk ✓

FILE COPY

COLD MTN (C&GS)

Mariposa County

Calif. (454)

USC&GS, 1956

1927 N.A.D.

USGS, 1956 (Not occupied)

Books: PH 469-470

FILE COPY

U. S. Coast and Geodetic Survey description not received
as yet.

CALIFORNIA ZONE 3

X=2,311,340.3

Y= 523,520.6

**V.A. elevation 9910.0 ft.(USGS,
1956)

*Latitude: 37°55'58.45"

*Longitude: 119°25'13.75"

*=C&GS Field values

**=Computed from USGS AND C&GS data

11/9/56 mk *✓*

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FILE COPY

1-56 A

Tuolumne County

Calif.(454)

L. B. Mansfield, 1956

1927 N.A.D.(Unadj.)

Books: PH 469-470

Located about 10.8 mi. NW. of Tuolumne Meadows Ranger Station and 10.5 mi. N. of Tenaya Lake on highest point of top, a high and prominent top known as "PETTIT PK". Station is on a small rock.

Station was reached by helicopter.

Station mark: Nail in top cedar stake wedged in crack of large boulder.

Signal: Fluorescent over white flag on pole centered over station mark.

Signal data:	Top fluorescent flag	8.0 ft.
	Top white flag	6.5
	Bottom white flag	3.5

Photo No. 1-56 GSVJS

CALIFORNIA ZONE 3

X=2,294;102

Y= 542,579.

V.A. elevation 10,788. ft.

Latitude: 37°59'08.77"

Longitude: 119°28'46.31"

<u>To Station</u>	<u>Azimuth</u>	<u>Back Azimuth</u>	<u>Feet</u>
Mt. Hoffmann (C&GS)	9°43'32."	189°42'26.	51,280.
Richardson (C&GS)	120 23 22.	300 15 32.	70,753.

11/9/56 mk *mk*

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1-154B

Tuolumne County

Calif. (454)

J. C. Savage

1952

1927 N.A.D. (Unadjusted)

Books: PH 207 & 208

Located about 15 mi. W. of Mono Craters, about 4 mi. SSW. of Mt. Dana (airline distances), on the summit of Mammoth Peak. (Note: There is a higher point about 1 mi. SE. of station on same ridge.)

To reach from the East Gate to Yosemite Park (Tioga Pass), drive W. on State Hwy. 120 for 4.0 mi. to a stone culvert and E.T.T. Pack SE. across Dana Fork of the Tuolumne River and up ridge to the top. A 3.5-hr. pack.

STATION MARK AND SIGNAL: White flag in cairn.

SIGNAL DATA:	Top white flag	7.0 ft.
	Bottom white flag	5.5
	Top cairn	3.0

CALIF. ZONE 3
 X=2,357.274.
 Y= 495,908.

V.A. ELEVATION: 12,117 ft.

Latitude 37°51'19.845"

Longitude 119°15'45.015"

<u>To Station</u>	<u>Azimuth</u>	<u>Back Azimuth</u>	<u>Log Meters</u>
Tioga Pk.	188°07'56"	8°08'33"	4.02255
Mt. Dana, C.&G.S.	217 04 32	37 06 05	3.79138
Mono L.A.W.D.			4.35593

10/22/52 mc ✓

FILE COPY

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37 119 1

CALIF. 454
37°45'
119°15'

<u>NAME</u>	<u>STATION</u>
COLD MOUNTAIN	1002
MOUNT CONNESS	1005
CATHEDRAL PEAK	1011

JULY 1963
 PUBLISHED AND PRINTED BY:
 U.S. DEPARTMENT OF COMMERCE
 COAST AND GEODETIC SURVEY
 WASHINGTON D.C.

HORIZONTAL CONTROL DATA

by the
 Coast and Geodetic Survey
 NORTH AMERICAN 1927 DATUM

CALIFORNIA

QUAD 371191 STATION 1002
 CALIF
 LATITUDE 37°30' TO 38°00'
 LONGITUDE 119°00' TO 119°30'
 DIAGRAM NJ 11-7 MARIPOSA

454

DEPARTMENT OF COMMERCE
 U.S. COAST AND GEODETIC SURVEY
 FORM 525
 Rev. Aug. 1962

DESCRIPTION OF TRIANGULATION STATION

NAME OF STATION: GOLD MTN STATE: California COUNTY: Tuolumne

NOTE	HEIGHT OF TELESCOPE ABOVE STATION MARK METERS	HEIGHT OF LIGHT ABOVE STATION MARK METERS	Described by: R.P.Kolterman			
4	Surface-station mark. Underground-station mark	DISTANCES AND DIRECTIONS TO AZIMUTH MARK, REFERENCE MARKS AND PROMINENT OBJECTS WHICH CAN BE SEEN FROM THE GROUND AT THE STATION				
	OBJECT	BEARING	DISTANCE		DIRECTION	
			feet	meters		
	MOUNT CONNESS 1890				00 00 00.00	
12c	R.M. No. 1	SE	42.38	12.919	75 19 37	
12c	R.M. No. 2	W	16.28	4.964	206 14 14	

The station is located on the summit of Gold Mountain, which is a granite bare topped mountain. It is about 3 1/2 miles north of Glen Aulin, 1 mile east of Virginia Lake and 1 mile west of Cold Canyon. The mark is on the highest point of the mountain, 20 feet north of a dead scrub pine and 10 feet southwest of a 6' by 6' boulder. It is stamped GOLD MTN 1956 and is set flush.

Reference Mark No. 1 is set near the east edge of the mountain, 25 feet east of a dead scrub pine and is about 3 feet lower than the station. It is stamped GOLD MTN NO 1 1956 and is set flush.

Reference Mark No. 2 is set near the west edge of the mountain, 18 feet north-west of a dead scrub pine tree and is 1 foot lower than the station. It is stamped GOLD MTN NO 2 1956 and is set flush.

To reach the station from Tanaya Lake, follow the trail north to Glen Aulin camp, from Glen Aulin Camp follow the trail north up Cold Canyon for about 3 miles to a small camp ground on the right and a triangle blazed tree on the left. From here horses can be taken west up through the trees about 1/2 mile to the base of the mountain, from here pack northwest up the hill to the top of the ridge, then follow the ridge north, going down into a small canyon which has trees and 2 small lakes in it, then pack north up out of the canyon to the highest point of the mountain and the station as described. A 4 hour horse pack and a 2 hour back pack.

Detailed description

*Refer to notes in manuals of triangulation and state publications of triangulation. (Direction-angle measured clockwise, referred to initial station.
 (To nearest meter only, when no trigonometric leveling is being done.)

16-50000-1 U. S. GOVERNMENT PRINTING OFFICE

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: GOLD MOUNTAIN YEAR: 1956

STATE: California LOCALITY: Hetch Hetchy to Mono Lake

Second-order Triangulation SOURCE: G-11404 FIELD SKETCH: CALIF 430

GRID DATA	COORDINATES (Foot)	PLANE AZIMUTH θ (OR Δθ) ANGLE	MARK
STATE: Calif ZONE: 3 CODE: 0403	x 2,311,336.44 y 523,525.99	+ 0 39 39	
STATE: ZONE: CODE:	x y		

GEODETIC DATA	POSITION		SECONDS IN METERS	ELEVATION
	LATITUDE:	LONGITUDE:		
	37°55'58"504	119°25'13.797		3,020.2 METERS 9,909 FEET

TO STATION	GEODETIC AZIMUTH (From south)	DISTANCE	
		LOGARITHM (Meters)	METERS
MOUNT CONNESS	246°39'26"1		

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JULY 1963
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 COAST AND GEODETIC SURVEY
 WASHINGTON D.C.

HORIZONTAL CONTROL DATA

by the
 Coast and Geodetic Survey
 NORTH AMERICAN 1927 DATUM

QUAD 371191 STATION 1004
 CALIF
 LATITUDE 37°30' TO 38°00'
 LONGITUDE 119°00' TO 119°30'
 DIAGRAM NJ 11-7 MARIPOSA

DEPARTMENT OF COMMERCE
 U. S. COAST AND GEODETIC SURVEY
 FORM 588
 Rev. Aug. 1946

DESCRIPTION OF TRIANGULATION STATION

NAME OF STATION: **LEE VINING** STATE: **California** COUNTY: **MONO**
 CHIEF OF PARTY: **R.L. Engdahl** YEAR: **1956** Described by: **L.D. Fraser**
 HEIGHT OF TELESCOPE ABOVE STATION MARK **1.78 METERS** HEIGHT OF LIGHT ABOVE STATION MARK **1.0 METERS**

NOTE*	HEIGHT OF TELESCOPE 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		DIRECTION†
			feet	meters	
7a	Surface-station mark				
7a	Underground-station mark				
		POTATO PEAK 1953 (USGS)		0 00	00.00
debc		Azimuth Mark		(0.25 mile)	69 31 18.6
11a		Reference Mark 1	E-SE	23.14	7.053 91 57 29
11a		Reference Mark 2	S-SW	20.39	6.214 163 15 24

The station is located 0.5 mile southeast of Lee Vining, 60 yards northwest of the intersection of U.S. Highway 395 and a gravel road, 50 feet northeast of U.S. Highway 395, and 22 feet north of a U.S. Forest Service Boundary signpost. It is a standard mark as described in notes 1a and 7a, projects 2 inches above the surface of the ground, and is stamped "LEE VINING 1956."

Reference mark 1 is 54 feet northeast of U.S. Highway 395. It is a standard mark as described in note 11a, projects 2 inches above the surface of the ground, and is stamped "LEE VINING NO 1 1956."

Reference mark 2 is 35 feet northeast of U.S. Highway 395. It is a standard mark as described in note 11a, projects 2 inches above the surface of the ground, and is stamped "LEE VINING NO 2 1956."

Azimuth mark is a standard disk, cemented in a drill hole in the northwest end of a concrete flood bridge, and is stamped "LEE VINING 1956."

To reach the station from the Lee Vining post office, go southeast on U.S. Highway 395 for 0.5 mile to a side road on the left, turn sharp left along the embankment for about 60 yards and the station as described.

To reach the azimuth mark from the station, go north on a gravel road for 0.05 mile to a side road on the right, turn right and go 0.2 mile to the flood bridge and mark as described.

* Refer to notes in manuals of triangulation and state publications of triangulation. † Direction-angle measured clockwise, referred to initial station.
 † To nearest meter only, when no trigonometric leveling is being done. 16-5229-1 U. S. GOVERNMENT PRINTING OFFICE

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: **LEE VINING** YEAR: **1956**
 STATE: **California** LOCALITY: **Owens Valley**
 Second -order Triangulation SOURCE: **G-11777** FIELD SKETCH: **Calif 436**

GRID DATA	COORDINATES (Feet)	PLANE AZIMUTH θ FOR Δθθ ANGLE	MARK	
STATE: Calif ZONE: 3 CODE: 0403	x 2,399,791.27 y 531,240.64	253°03'34" + 0 50 56	AZIMUTH MARK	
STATE: ZONE: CODE:	x y			
GEODETIC DATA	POSITION		SECONDS IN METERS	ELEVATION
	LATITUDE: LONGITUDE:	37°57'03"240 119 06 48.392	NORTH WEST	2,082.7 METERS 6,833 FEET
TO STATION		GEODETIC AZIMUTH (From 0000)	DISTANCE	
AZIMUTH MARK		THIRD ORDER 253°54'29"6	LOGARITHM (Meters)	METERS

HORIZONTAL CONTROL DATA

CALIFORNIA
QUAD-37191 STATION 1005

CALIF
LATITUDE 37°30' TO 38°00'
LONGITUDE 119°00' TO 119°30'
DIAGRAM NJ 11-7 MARIPOSA

454

MOUNT CONNESS (Tuolumne County, Calif., L.A.S., 1879; 1934)--
About 4 miles NW of E gate to Yosemite Park, 4 miles SW of Saddlebag Lake, and on highest point of Mount Conness. To reach from Leevining, go S 0.3 mile on highway, turn right on to Tioga Pass Road and go 12 miles, turn right onto road to Saddlebag Lake, and go 1.5 miles turn right and go about 0.6 mile to end of road, follow up creek about 1/4 mile, go to right up side of mountain to N point of high ridge and thence along ridge to highest point and station site. In 1879 station was marked by cross on copper bolt set in drill hole in solid rock. In 1890 the geodetic position of the station was determined. Concrete pier 26 inches in diameter and 40 inches above rock, was built; and 5/8-inch copper bolt with broad, flat, spherical head was placed in top. A silver pin was driven into head of bolt but cross on top a short distance away marks station. "Mount Conness latitude station", marked by concrete pier, was 194.5 meters (638 feet) from station in azimuth 301°59'; magnetic pier was 180.4 meters (592 feet) from station in azimuth 298°20'; vertical-circle pier was 8.72 meters (28.6 feet) W and 24.81 meters (81.4 feet) S of magnetic pier; and transit pier was 1.545 meters (5.07 feet) W of latitude pier. In 1934 two standard reference disks in bedrock, note 12a, were established--No.1 is 14.304 meters (46.93 feet) from station in azimuth 347°52'; No.2 is 22.126 meters (72.59 feet) from station in azimuth 93°44'. Reference mark No.3 (probably standard reference disk) was also established, at base of sharp peak, in concrete pier about 3 feet high, and about 1/4 mile from station in azimuth 301°59'32".

R

NAME OF STATION: MOUNT CONNESS
ESTABLISHED BY: L.A.S. YEAR: 1879 STATE: California
RECOVERED BY: R.L.E. YEAR: 1956 COUNTY: Tuolumne

Detailed statement as to the fitness of the original description, including marks found, stampings, changes made, and other pertinent facts:
The station mark as originally established in 1870 and the reference marks established in 1934 were recovered and found in good condition. The concrete pier with the copper bolt and a silver pin marking the center point which was established over the original mark in 1890 has since been partly destroyed and no evidence of the bolt or silver pin could be found. However, the original copper bolt marked by a cross and set in bedrock was found in excellent condition and well protected by the remains of the 1890 pier.

A discrepancy was found in the horizontal measurements of reference mark No. 1 and reference mark No. 2 established in 1934.

Following is a new and complete description:

The station mark is on the highest point of Mount Conness, about 4 1/2 miles NNW of the east gate of Yosemite National Park, 4 miles W of the north end of Saddlebag Lake, 4 miles NE of Young Lake and just W of the Tuolumne-Mono County Line and the boundary line between Yosemite National Park and Inyo National Forest. The station is marked by a cross on a copper bolt set in a drill hole in bedrock and is about surrounded by the remains of a concrete pier projecting about 16 inches above the mark. The copper bolt projects about 4 inches above the surface of the rock and bears no stamping.

Reference mark No. 1 is located on the south slope of the mountain about 9 feet below the elevation of the station. It is a standard bronze disk cemented in a drill hole in outcropping bedrock and the disk is stamped CONNESS NO 1 1934 (note 12a).

Reference mark No. 2 is located on the west slope of the mountain about 40 feet below the elevation of the station. It is standard bronze disk cemented in a drill hole in a large granite boulder and the disk is stamped CONNESS NO 2 1934 (note 12c).

Reference mark No. 3 (azimuth mark) is located on a shelf at the base of the last rise of the mountain and about 650 feet below the elevation of the station. It is a standard bronze disk cemented in a drill hole in the top of a concrete pier approximately 18 inches square and projecting 56 inches above the ground. This is the most easterly of two piers within a rock enclosure. The disk is stamped CONNESS NO 3 1934.

A direction was taken to two concrete piers at about the same elevation as reference mark No. 3, but no measurements could be made because of the distance and verticle angle involved. One of these piers is within the same rock enclosure and about 5 feet W of reference mark No. 3. The point observed upon was a small cross near the center of the pier which is 16 inches by 24 inches at the top and projects about 54 inches above the ground. The other pier is 60.23 feet SW of reference mark No. 3. The point observed upon was a small cross near the center of the pier which is approximately 22 inches square at the top and projects 51 inches above the surface of the ground.

A helicopter landing was made on the shelf at the base of the last rise of the mountain from a small meadow at the north end of Saddlebag Lake. A 30-minute pack to the top and the station from this point.

by the
1st and Geodetic Survey
17th AMERICAN 1927 DATUM

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: MOUNT CONNESS YEAR: 1890
STATE: California LOCALITY: 39th Parallel Arc
First -ORDER Triangulation SOURCE: G-275 FIELD SKETCH: SP 202-21

GRID DATA	COORDINATES (Feet)	PLANE AZIMUTH & CORRECT ANGLE	MARK
STATE: Calif ZONE: 2 CODE: 0402	x 2,772,524.57 y 120,811.76	300°18'10" + 1 41 22	RM NO 3
STATE: Calif ZONE: 3 CODE: 0403	x 2,340,076.90 y 536,324.20	301 16 12 + 0 43 20	RM NO 3
STATE: Calif ZONE: 4 CODE: 0404	x 1,907,638.61 y 959,058.18	- 0 11 28	
STATE: Nev ZONE: W CODE: 2703	x 287,553.32 y 1,171,916.22	- 0 27 12	

GEODEIC DATA	POSITION		SECONDS IN METERS	ELEVATION	
	LATITUDE:	LONGITUDE:		NORTH WEST	METERS FEET
	37°58'01"597	119 19 13.072		3,853.8 12,585	
TO STATION		GEODEIC AZIMUTH (From mark)	DISTANCE		
MOUNT HOFFMAN			51°21'33"6	LOGARITHM (Meters)	METERS

Station: MOUNT CONNESS (contd) County: Tuolumne State: Calif.

OBJECT	DIRECTION	DISTANCE	DIRECTION
MT HOFFMANN		feet meters	0° 00' 00"
R.M. No. 2	W	76.76 23.396	42 19 10
R.M. No. 3 (Az.Mk.)	SE	(0.1 mile)	250 37 36.0
Pier	SE	(0.1 mile)	250 52 13.3
Pier	SE	(0.1 mile)	255 25 57.8
R.M. No. 1	S	46.82 14.270	296 31 14

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JULY 1963
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 COAST AND GEODETIC SURVEY
 WASHINGTON D.C.

JUL 1979

HORIZONTAL CONTROL DATA

by the
 Coast and Geodetic Survey
 NORTH AMERICAN 1927 DATUM

QUAD 371191 STATION 1010
 CALIF
 LATITUDE 37°30' TO 38°00'
 LONGITUDE 119°00' TO 119°30'
 DIAGRAM NJ 11-7 MARIPOSA

WILLIAMS BUTTE L.A. (Mono County, Calif., C.P., 1934)--The station is on William Butte, which lies about 2 1/2 miles S of Leeving and 1 mile W of the highway. It is a sharp prominent butte which rises steep from the highway.

Reference and azimuth marks are standard bronze disks in outcropping bedrock as described in note 12a.

The station mark is a 1-inch galvanized pipe projecting about 1 foot above the ground. The pipe has a cap on top and a small hole bored in the cap.

Reference mark No. 3 (azimuth mark) is 1/2 mile S on the first white rock across the saddle. S point of gable roof on house azimuth mark is 1 mile NE just across the highway.

Reached from Leeving as follows: Take the highway going S and go 2.5 miles to some Indian shacks on the right of the road, leave the truck here and climb the sharp butte to the W and the station. A 1 1/2-hour pack.

OBJECT	DISTANCE	DIRECTION
PAGA	meters	0°00'00"0
S point of gable roof		15 21 25.9
R.M.No.2 E	5.390	65 15
R.M.No.3 Az. Mk. S		133 48 09.8
R.M.No.1 N	12.502	336 13 36

WILLIAMS BUTTE (Mono County, Calif., C.P., 1934; Mono Aerial Survey, 1940)--Found as described. Recovered R.M. 1 and R.M. 2. Present condition of mark excellent.

Quad No. 371191

R

RECOVERY NOTE, TRIANGULATION STATION

NAME OF STATION: WILLIAMS BUTTE (LAWD) 1934
 ESTABLISHED BY: C. P. YEAR: 1934 STATE: California BENCH MARK ALSO
 RECOVERED BY: R. L. Clark YEAR: 1973 COUNTY: Mono
 AIRLINE DISTANCE AND DIRECTION FROM NEAREST TOWN: 2.2 miles, airline, south of Lee Vining
 HEIGHT OF TELESCOPE ABOVE STATION MARK 1.4 meters WEIGHT OF LIGHT ABOVE STATION MARK 1.4 meters

OBJECT	BEARING	DISTANCE		DIRECTION
		FEET	METERS	
MT DANA (NGS) 1934 "V.G."	NNE	40.796	12.432	00 00 00.0
RM 1	WNW	17.685	5.389	119 31 02
RM 2				208 34 19

The station mark and reference marks 1 and 2 were recovered in good condition as described in 1974. No search was made for the azimuth mark.

Richard L. Clark

ADJUSTED HORIZONTAL CONTROL DATA

ADJUSTMENT BY CGS

NAME OF STATION: WILLIAMS BUTTE LAWD

OBS BY CGS

STATE: CALIFORNIA

YEAR: 1934

FIRST

ORDER

SOURCE: G-03064

GEODETIC LATITUDE:	37 55 08.843	ELEVATION:	2569.3 METERS
GEODETIC LONGITUDE:	119 06 50.861		8429 FEET

STATE COORDINATES (Feet)				
STATE & ZONE	CODE	X	Y	S 10R Δ 41 ANGLE
CA 3	0403	2,399,764.89	519,667.39	+ 0 50 55

* PLANE AZIMUTH HAS BEEN COMPUTED BY THE S 10R Δ 41 FORMULA NEGLECTING THE SECOND TERM.

TO STATION OR OBJECT	GEODETIC AZIMUTH (From bench)	PLANE AZIMUTH (From bench)	CODE
WILLIAMS BUTTE LAWD RM 3	354 16 55.2	353 26 01	0403

THESE DATA ARE OBTAINED FROM ADJUSTMENT OF 1936

78 058

15711

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 WASHINGTON D.C.

HORIZONTAL CONTROL DATA

by the
 Coast and Geodetic Survey
 NORTH AMERICAN 1927 DATUM

CALIFORNIA

QUAD 371191 STATION 1011
 CALIF
 LATITUDE 37°30' TO 38°00'
 LONGITUDE 119°00' TO 119°30'
 DIAGRAM NJ 11-7 MARIPOSA

454

NO TEXT

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: CATHEDRAL PEAK YEAR: 1956
 STATE: California LOCALITY: Hetch Hetch to Mono Lake
 Third-Order Triangulation SOURCE: G-11404 FIELD SKETCH: CALIF 430

GRID DATA	COORDINATES (Feet)	PLANE AZIMUTH & ORIGIN ANGLE	MARK
STATE: Calif ZONE: 3 CODE: 0403	x 2,316,308.73 y 492,630.23	+ 0 40 14	
STATE: ZONE: CODE:	z y		

GEODETIC DATA	POSITION		SECONDS IN METERS	ELEVATION
	LATITUDE: LONGITUDE:	37°50'52.493 119 24 16.251	NORTH WEST	

TO STATION	GEODETIC AZIMUTH (From center)	DISTANCE	
		LOGARITHM (Meters)	METERS
Computed from stations MT HOFFMAN, PRICE PEAK, MT COMBESS, MT DANA			

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 FEB 6 1981

FORM 204 (10-21-60)

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