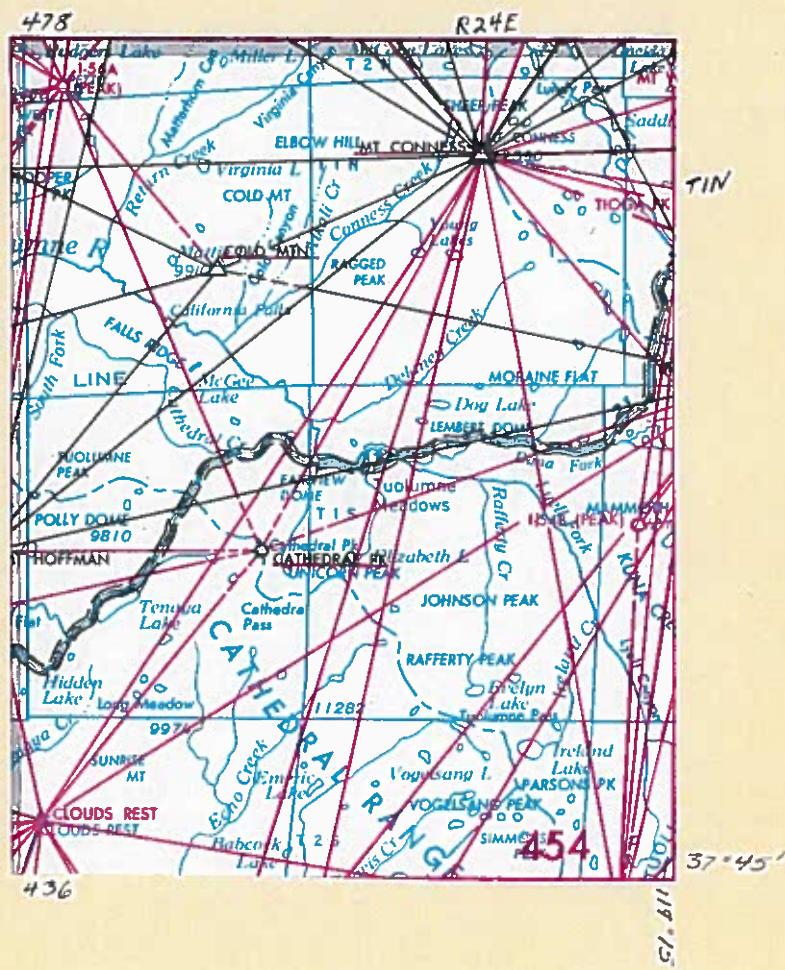


37° 45'
119 15



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 ✓dc

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.

~~SUMMIT~~ 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 ✓

FILE COPY

CBG. 204/E 3
* X = 2,340,076.90
* Y = 536,324.20
CBG. 204/E 2
* Y = 2,772,524.57

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.

FILE COPY

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

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

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 ✓

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COLD MTN (C&GS)

Mariposa County

Calif. (454)

USC&GS, 1956

1927 N.A.D.

USGS, 1956 (Not occupied)

Books: PH 469-470

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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: $37^{\circ}55'58.45''$ *Longitude: $119^{\circ}25'13.75''$

*=C&GS Field values

**=Computed from USGS AND C&GS data

11/9/56 mk ✓

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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: $37^{\circ}59'08.77''$ Longitude: $119^{\circ}26'46.31''$

To Station	Azimuth	Back Azimuth	Feet
Mt. Hoffmann (C&GS)	$9^{\circ}43'32.''$	$189^{\circ}42'26.$	51,280.
Richardson (C&GS)	120 23 22.	300 15 32.	70,753.

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11/9/56 mk ✓

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 $37^{\circ}51'19.845''$

Longitude $119^{\circ}15'45.015''$

<u>To Station</u>	<u>Azimuth</u>	<u>Back Azimuth</u>	<u>Log Meters</u>
Tioga Pk.	$188^{\circ}07'56''$	$8^{\circ}08'33''$	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 ✓

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NAME

COLD MOUNTAIN
MOUNT CONNESS
CATHEDRAL PEAK

STATION

1002
1005
1011

37 119 1

CALIF.
37°45'
119°15'
454

TYPE E

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200

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JULY 1963 AND PRINTED BY:

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

WASHINGTON D.C.

HORIZONTAL CONTROL DATA

Coast and Geodetic Survey
NORTH AMERICAN 1927 DATUM

CALIFORNIA 454

QUAD 371191 STATION 1002
CALIF LATITUDE $37^{\circ}30'$ TO $38^{\circ}00'$
LONGITUDE $119^{\circ}00'$ TO $119^{\circ}30'$
DIAGRAM NJ 11-7 MARFOSSA

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

DESCRIPTION OF TRIANGULATION STATION

ADJUSTED HORIZONTAL CONTROL DATA			
NAME OF STATION: COLD MOUNTAIN			
STATE: California LOCALITY: Hatch Hollow to Mono Lake			
YEAR: 1956	YEAR: 1956	YEAR: 1956	YEAR: 1956
NAME OF STATION: COLD MOUNTAIN	LOCALITY: Hatch Hollow to Mono Lake	NAME: COLD MOUNTAIN	LOCALITY: Hatch Hollow to Mono Lake
CHIEF OF PARTY: R.J. Englehardt	YEAR: 1956	Described by R.P. Kotterman	YEAR: 1956
NOTE: Height of station above mean sea level	MEASURED BY: NITEL	Height of station above mean sea level	MEASURED BY: NITEL
Surficial station mark	DISTANCES AND DIRECTIONS TO AZIMUTH MARK, REFERENCE MARKS AND PRECISELY DETERMINED OBJECTS	Surficial station mark	DISTANCES AND DIRECTIONS TO AZIMUTH MARK, REFERENCE MARKS AND PRECISELY DETERMINED OBJECTS
Underground station mark	WHICH CAN BE SEEN FROM THE GROUND AT THE STATION	Underground station mark	WHICH CAN BE SEEN FROM THE GROUND AT THE STATION
OBJECT	BEARING	BEARING	BEARING
	feet	feet	feet
JUDITH CONNESS 1890	SE	00 00 00.00	00 00 00.00
12c R.M. No. 1	42.38	12.919	75 19 37
R.M. No. 2	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 $3\frac{1}{2}$ miles north of Glen Aulin, 1 mile east of Virginia Lake and 1 mile west of Gold 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 '56 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 '56 1956 and is set flush. Reference Mark No. 2 is set near the west edge of the mountain, 18 feet north of a dead scrub pine tree and is 1 foot lower than the station. It is stamped GOLD '56 1956 and is set flush.

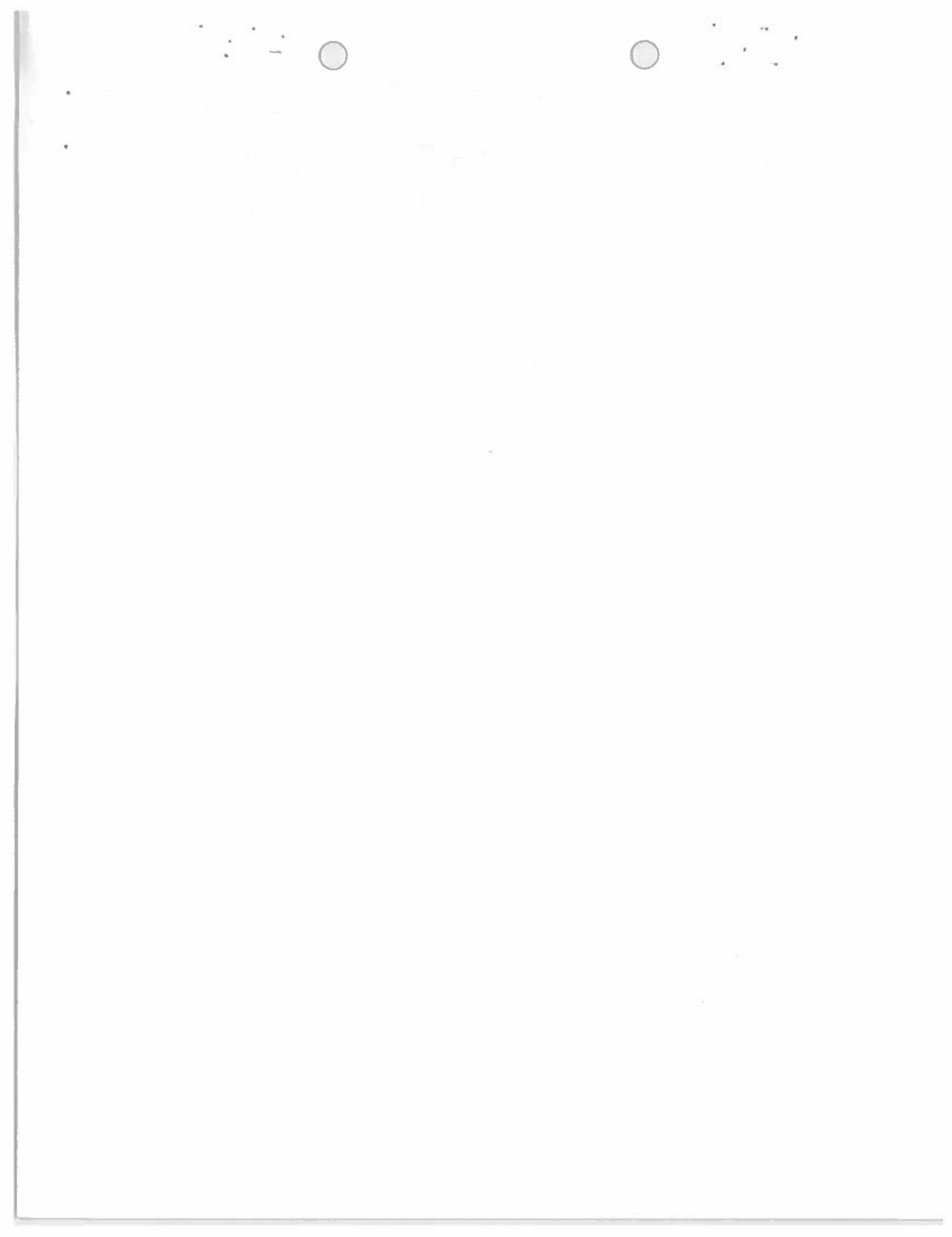
To reach the station from Sunuya Lake, follow the trail north to Glen Aulin camp, from Glen Aulin Camp follow the trail north up Gold Canyon for about 3 miles to a small camp ground on the right and a triangle blazed tree on the left. From here horses can be taken west up through the trees about $\frac{1}{2}$ mile to the base of the mountain, from here pack northward up the hill to the top of the ridge, then follow the ridge north, going down into a small canyon which has two 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 buck pack.

ADJUSTED HORIZONTAL CONTROL DATA			
NAME OF STATION: COLD MOUNTAIN			
STATE: California LOCALITY: Hatch Hollow to Mono Lake			
YEAR: 1956	YEAR: 1956	YEAR: 1956	YEAR: 1956
NAME OF STATION: COLD MOUNTAIN	LOCALITY: Hatch Hollow to Mono Lake	NAME: COLD MOUNTAIN	LOCALITY: Hatch Hollow to Mono Lake
STATE: California LOCALITY: Hatch Hollow to Mono Lake	NAME: COLD MOUNTAIN	STATE: California LOCALITY: Hatch Hollow to Mono Lake	NAME: COLD MOUNTAIN
SECOND-ORDER TRIANGULATION SOURCE: G-11404	FIELD SKETCH: CALIF 430	SECOND-ORDER TRIANGULATION SOURCE: G-11404	FIELD SKETCH: CALIF 430
GRIDS DATA	COORDINATES (FEET)	PLANE AZIMUTH	MARK
STATE: Calif	2,311,336.44	8 (CONSONANT ANGLE)	
ZONE: 3	523,525.99	+ 0 39 39	
CODE: 0403			
STATE: Calif	2,311,336.44	8 (CONSONANT ANGLE)	
ZONE: 3	523,525.99	+ 0 39 39	
CODE: 0403			
GEODETIC DATA	POSITION	SECOND IN METERS	ELEVATION
LATITUDE: $37^{\circ}55'58.1''$ N	119 25 13.797	NORTH	3,020.2 METERS
LONGITUDE: $119^{\circ}25'13.797''$ W		WEST	9,909 FEET
MOUNT CONNESS	TO STATION	GEODETIC AZIMUTH (FEET)	DISTANCE
		246°39'26.1"	LOGARITHM (FEET)
			METERS

*Refers to marks or monuments of reference stations and sets of triangulation. **Monuments measured directly referred to initial station.
†To control points only, which are designated by dots.

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

Coast and Geodetic Survey
NORTH AMERICAN 1927 DATUM
by the
JULY 1963

HORIZONTAL CONTROL DATA

QUAD 371191 STATION 1004
CALIF.
LATITUDE $37^{\circ}30' 10''$
LONGITUDE $119^{\circ}00' 20''$
DIAGRAM NJ 11-7 MARIPOSA

DESCRIPTION OF TRIANGULATION STATION

NAME OF STATION: LEE VINKO		STATE: California		COUNTRY: Mono	
CHIEF OF PARTY: R.L. Engdahl	YEAR: 1956	Described by: L.D. Fraser			
NOTE: HEIGHT OF TELESCOPE ABOVE STATION MARK	1.78 METERS	HEIGHT OF TUBE ABOVE STATION MARK	1.0	REFLECTOR	
7a Series of station mark		DISTANCES AND DIRECTIONS TO NEAREST MARKS, REFERENCE MARKS AND PROMINENT OBJECTS WHICH CAN BE SEEN FROM THE GROUND AT THE STATION			
Azimuth Mark 1					
Reference Mark 2					
Reference Mark 3					

The station is located 0.5 mile southeast of Lee Vinko, 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 VINKO 1956".

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

Reference mark 2 is 35 feet northeast of U.S. Highway 395. It is a standard mark as described in note 1a, projects 2 inches above the surface of the ground, and is stamped "LEE VINKO NO 2 1956".

Azimuth mark 1a is a standard disk, cemented in a drill hole in the northeast end of a concrete flood bridge, and is stamped "LEE VINKO 1956".

To reach the station from the Lee Vinko 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 is 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.

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: LEE VINKO		STATE: California		LOCALITY: Owens Valley		YEAR: 1956	
Second-order Triangulation		SOURCE: G-1177		FIELD SKETCH: Calif 436			
GRID DATA		COORDINATES (FEET)		PLANE AZIMUTH & PLANE ANGLE		MARK	
STATE: CALIF	ZONE:	2,399,791.27	3	253°03'34"	4	AZIMUTH MARK	
	ZONE:	531,240.64	0403	+0 50 56			
GEODETIC DATA		POSITION		SECONDS IN ELEVATION			
STATE:	TIME:	LATITUDE:	37°57'03".216	NORTH	2,082.7	METERS	
		LONGITUDE:	119°06'48.392	WEST	6,833	FEET	
TO STATION		GEODETIC AZIMUTH (FROM GRID)		LOG MANTISSA (BASE 10)		DISTANCE (METERS)	
AZIMUTH MARK		THIRD ORDER	253°54'29.6				

*Refers to points in minimum of triangulation and ratio projections of triangulation.

1D=Distance in kilometers referred to initial baseline.

2D=Distance in kilometers referred to initial baseline.

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JULY 1963
PUBLISHED AND PRINTED BY:

HORIZONTAL CONTROL DATA

CALIFORNIA

by the

MOUNT CONNESS (Tuolumne County, Calif., L.A.S., 1879; 1934) --
About 4 miles NW of E gate to Yosemite Park, 4 miles SW of Saddle-
bag Lake, and on highest point of Mount Conness. To reach from
Leaving, 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
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 1880 the Geodetic
position of the station was determined. Concrete pier 28 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 sta-
tion", 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 090°20'; vertical-circle pier was
6.72 meters (28.6 feet) W and 24.81 meters (81.4 feet) S of mag-
netic pier; and transit pier was 1.545 meters (5.07 feet) W of
latitude pier. In 1884 two standard reference disks in bedrock,
note 12s, were established. No. 1 is 14.304 meters (46.93 feet)
from station in azimuth 337°52'; No. 2 is 22.126 meters (72.59
feet) from station in azimuth 93°41'. Reference mark No. 3 (prob-
ably 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 or Station: MOUNT CONNESS
Established by: L.A.S.
Recovered by: R.I.E.

Year: 1879 State: California

Year: 1886 County: Tuolumne

Detailed statement as to the status of the original description including marks found, stations, changes made and other pertinent facts:
The station mark as originally established in 1879 and the reference
marks established in 1884 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 1880 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 1880
pier.

A discrepancy was found in the horizontal measurements of reference
mark No. 1 and reference mark No. 2 established in 1944.

Following is a new and complete description:

The station mark is on the highest point of Mount Conness, about 4½
miles NW 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 Mono 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 1a).

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 1c).

Reference mark No. 3 (azimuth mark) is located on a shelf at the base
of the west 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 16 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 vertical 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 60.25 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 Saddle-
bag Lake. A "T" monument pack to the top and the station from this point.

ADJUSTED HORIZONTAL CONTROL DATA

YEAR: 1890

NAME OF STATION: MOUNT CONNESS

STATE: California

LOCALITY: 39th Parallel Arc

FIRST -order Triangulation

SOURCE: G-275

FIELD SKETCH: SP 202-21

GRID DATA

COORDINATES (F.M.S.)

PLANE AZIMUTH
& TIRE ANGLE

MARK

STATE: Calif

ZONE: 2, 7772, 520.57

RM NO 3

CODE: 0402

y 120, 811.76

+ 1 41 22

STATE: Calif

ZONE: 2, 340, 076.90

RM NO 3

CODE: 0403

y 536, 324.20

+ 0 43 20

STATE: Calif

ZONE: 1, 907, 638.61

- 0 11 28

CODE: 0404

y 959, 058.18

- 0 11 28

STATE: Nev

ZONE: W

287, 553.32

- 0 27 12

CODE: 2703

STATE: Calif

ZONE: 1, 907, 638.61

- 0 11 28

CODE: 0404

STATE: Calif

ZONE: 1, 171, 916.22

- 0 27 12

CODE: 0403

STATE: Calif

ZONE: 1, 907, 638.61

- 0 11 28

CODE: 0404

STATE: Calif

ZONE: 1, 171, 916.22

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CODE: 0403

STATE: Calif

ZONE: 1, 171, 916.22

- 0 27 12

CODE: 0403

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

JUL
1979

HORIZONTAL CONTROL DATA

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 NO 11-7 MARINUSA

WILLIAMS BUTTE L.M. (Mono County, Calif., C.P., 1934)--The station is on William Butte, which lies about $2\frac{1}{2}$ miles S of Leevining 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 $1\frac{1}{2}$ miles S on the first white rock across the saddle. A point of gable roof on house azimuth mark is 1 mile W just across the highway.

Reaches from Leevining 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 $\frac{1}{2}$ -hour-park.

OBJECT	DISTANCE	DIRECTION		ELEVATION:	METERS
		DEGREES	MINUTES		
PROA	0.000	000	000	2569.3	
5 point of Gable roof	15.21	26	49		
R.M.No.2 E	65.15				
R.M.No.3 AS. MR. S	153.48	09	06		
R.M.No.1 N	338.13	36			
	12.502				

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.

RECOVERY NOTE, TRIANGULATION STATION

Quad No. 371191 R

NAME OF STATION: WILLIAMS BUTTE (L.M.D.) 1934
ESTABLISHED BY: C. P.
YEAR: 1934 STATE: CALIFORNIA
RECOVERED BY: R. L. CLARK
YEAR: 1973 COUNTY: MONO
AIRLINE: SOUTH OF LEEVING
ARCHE DISTANCE AND DIRECTION FROM NEAREST TOWN: 2.2 MILES
HEIGHT OF TELESCOPE ABOVE STATION MARK: 1.4 METERS
HEIGHT OF VELCRO ABOVE STATION MARK: 1.4 METERS

DISTANCES AND DIRECTIONS TO AZIMUTH MARKS, REFERENCE MARKS AND PROMINENT OBJECTS WHICH CAN BE SEEN

OBJECT	BEARING	DISTANCE	DIRECTION		ELEVATION:
			DEGREES	MINUTES	
MT. DANA (NGS) 1934 "V.G." N	NNE	40.796	12.472	00 00	
R.M. 1	WNN	17.659	5.399	31 02	
R.M. 2	WNN	208	34	19	

The station mark and reference marks 1 and 2 were recovered in good condition as described in 1940. No search was made for the azimuth mark.

Richard L. Clark

7B 058

ADJUSTED HORIZONTAL CONTROL DATA

BY CGS

NAME OF STATION	STATE	YEAR	OBS BY CGS		FIRST	SECOND
			STATE & ZONE	CODE	X	Y
WILLIAMS BUTTE LAND RM 3	CALIFORNIA	1934	CA 3	0403	2.0399+64.89	519.667+39 + 0 50 55

STATION OBJECT	AZIMUTH (DEGREES)		ELEVATION (FEET)	COG
	FROM POINT	AT ANGLE		
WILLIAMS BUTTE LAND RM 3	354.16	55.2	353.26 01	0403

THESE DATA ARE OBTAINED FROM ADJUSTMENT OF 1936

CALIFORNIA 464

HORIZONTAL CONTROL DATA

by the
Coast and Geodetic Survey
NORTH AMERICAN 1927 DATUM

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

NO TEXT

ADJUSTED HORIZONTAL CONTROL DATA

YEAR: 1956

QUAD 371191 STATION 1011
CALIF LATITUDE 37°30' TO 38°00'
LONGITUDE 119°00' TO 119°30'

DIAGRAM NJ 11-7 MARIPOSA

STATE: California LOCALITY: Hatch Hatch to Mono Lake

THIRD-ORDER Triangulation SOURCE: G-11404 FIELD SKETCH: CALIPR 430

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

GEODETIC DATA	POSITION	SECOND IN METERS	ELEVATION	DISTANCE	
				FEET	METERS
	LATITUDE: 37°50'52" N LONGITUDE: 119°24'16.25" E	10,939	3,334.1 10,939 FEET METERS		

TO STATION

Computed from stations MT HOFFMAN, PRICE PEAK, MT CONNESS, MT DANA

FILE COPY
FEB 6 1981

uncompteable

PP-24 (2-68)

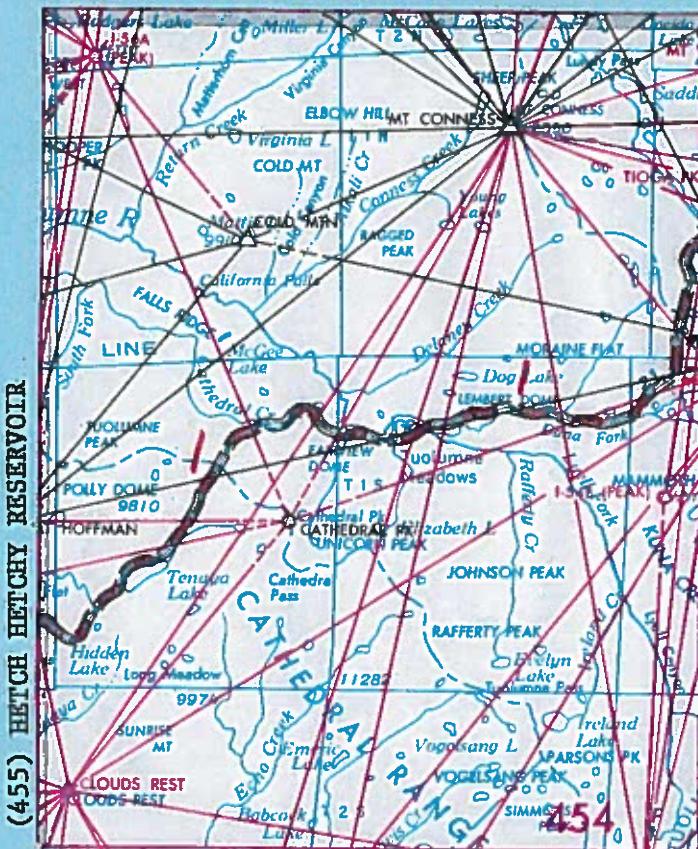
TUOLUMNE MEADOWS

37°45'
119 15

CALIFORNIA 454

NGS 37 119 14 (79)

(471) MATTERHORN PEAK



(436) MERCED PEAK

(1) C.R. Smith	1898	6274, Bul. 766
(2) C.R. Smith	1898	6274, Bul. 766

(453) MONO CRATERS

TUOLUMNE MEADOWS

MT. CONNESS (454) STATE

Page 1 of 1

CALIFORNIA

By C.R. SMITH, 1898.

ALTITUDE ABOVE
MEAN SEA LEVEL

(Feet)

THIRD

ADJ.

1929 GENERAL

6274

766, pg. 446

THIRD ORDER

for Publication

CALIFORNIA

not distribute

MT. CONNESS QUADRANGLE

(Latitude $37^{\circ}45'$ - $38^{\circ}00'$; Longitude $119^{\circ}15'$ - $119^{\circ}30'$)

MARIPOSA-TUOLUMNE-MONO COUNTIES

FILE COPY

1) FROM DANA FORK TRAIL WEST TO SODA SPRINGS

Soda Springs, 3.5 mi. east of, on north side of Tioga rd., where trail comes in from the meadows east of rd., in ledge of rock; aluminum bolt stamped "U.S.G.S. 9270 ft. B.M.O." Not Found 87 9275.559

Soda Springs, 100 ft. west of, in large granite boulder on south side of trail; aluminum bolt stamped "U.S.G.S. 8594 ft. B.M.O." OK 8599.441

T. 1 S., R. 23 E., SE corner of sec. 1, Diablo meridian; iron post stamped "8555 0" CK 8560.883

Cathedral Creek, in conspicuous rock in north side of creek bed, 50 ft. from rd.; aluminum bolt stamped "U.S.G.S. 8337 ft. B.M.O." Not Found 87 8342.940

Lake Tenaya, on west shore of, about 300 ft. east of three log cabins in grove of trees, in large boulder between rd. & lake shore; aluminum tablet stamped "U.S.G.S. 8146 ft. B.M.O." Not Found 87 8151.312

Lake Tenaya; surface of water, September 17, 1898

8146.7

Snow Flat, 300 ft. SW of wooden culvert in rd. X-ing, in large granite boulder, on west side of rd.; aluminum tablet stamped "U.S.G.S. 8705 Ft. B.M.O." (recovered in 1905 by leveling from Merced, and correction made) 8710.07 8711.206

-END OF LINE-

7/27/54 is ✓

1957

37-119-1

haw 103

7-59

P-A TUOLUMNE MEADOWS
D. MT. CONNESS (454) STATE

Page 1 of 1

CALIFORNIA

BY C.R. SMITH, 1898

(2) 37°45'
119°15'
ALTITUDE ABOVE
MEAN SEA LEVEL
(Feet)

ER THIRD

ADJ.

1929 GENERAL

K: 6274

L: 766, pg. 446

Third Order

for Publication

CALIFORNIA

Not Distribute

MT. CONNESS QUADRANGLE

(Latitude 37°45'-38°00'; Longitude 119°15'-119°30')

MARIPOSA-TUOLUMNE-MONO COUNTIES

(2) FROM DANA FORK TRAIL NORTH TO TIOGA

Tioga Pass summit, on rock on east side of rd., aluminum tablet stamped "9941 ft. B.M.O."

Tioga mine, at SW corner of assay office, in ledge of rock; round iron plug set in cement and marked "9795"

C.G.C.-1957
7/14/10
9946.953
Destroyed 86
9800.510

-END OF LINE-

7/27/54 is ✓

REPORT ON CONDITION OF SURVEY MARK

USGS LINE 1

MAPPING CENTER

NGS Line #103

STATE California COUNTY Madera QUAD NAME Tuolumne Mdws
STATION NAME and/or NUMBER 8705 USGS QUAD NUMBER 371191/454
LATITUDE ° ' " TYPE of MARK: BM TRAV. TRIANG. DOPPLER
LONGITUDE ° ' " YEAR ESTABLISHED May 1898
ELEVATION 8710.107 ft ft/meter By USGS NGS OTHER _____
CONDITION Good MARK STAMPED 8705

REMARKS or REVISED DESCRIPTION

12.6 miles west along Tioga Road (Calif Hwy 120) from the bridge over Tuolumne River at Tuolumne Meadows, to a side road leading northeast to May Lake Trailhead, 0.8 mile northeast along road to May Lake trailhead, at the south end of Snow Flat, on the inside of a curve, at a creek crossing, 300 feet south of a wooden sign "Snow Flat E'lev 8710" on the top of a 7'x15' granite outcrop which projects about 5 feet above the road. 14½ feet west of the center line of the road, and about 5 feet higher than the road.

SUBMITTED BY R. F. Wilson AGENCY USGS NMD DATE 9/17/86

Marks found in good condition need not be reported unless description is inadequate.

Please prepare in triplicate.

GSC-178

REPORT ON CONDITION OF SURVEY MARK

MAPPING CENTER

USGS Line #2

NGS Line #103

QUAD NAME Tuolumne Meadows
QUAD NUMBER 371191/454

STATE California COUNTY Tuolumne
STATION NAME and/or NUMBER 9941 (USGS)
LATITUDE ° ' " TYPE of MARK: BM TRAV. TRIANG. DOPPLER
LONGITUDE ° ' " YEAR ESTABLISHED Undetermined 1898
ELEVATION 9944.160 ft/meter By USGS NGS OTHER _____
CONDITION Destroyed MARK STAMPED _____

REMARKS or REVISED DESCRIPTION

Found shank and depressed circle in overturned boulder.
Tablet is gone.

SUBMITTED BY R. F. Wilson AGENCY USGS NMD DATE 9/16/86

Marks found in good condition need not be reported unless description is inadequate.

Please prepare in triplicate.

GSC-178

REPORT ON CONDITION OF SURVEY MARK

MAPPING CENTER

STATE California COUNTY Tuolumne QUAD NAME Tuolumne Mdws
STATION NAME and/or NUMBER 9270 USGS QUAD NUMBER 454 (3711914)
LATITUDE ° ' " TYPE of MARK: BM TRAV. TRIANG. DOPPLER
LONGITUDE ° ' " YEAR ESTABLISHED 1898
ELEVATION _____ ft/meter By: USGS NGS OTHER _____
CONDITION SFNF (Name of agency)
MARK STAMPED _____

REMARKS or REVISED DESCRIPTION:

The description is inadequate. Obviously the road alignment has been changed since the 1898 level line was run. I searched all areas of probability without success.

SUBMITTED BY R. F. Wilson AGENCY USGS NMD _____ DATE 8/7/87

Marks found in good condition need not be reported unless description is inadequate.

Please prepare in triplicate

GSC-178

REPORT ON CONDITION OF SURVEY MARK

MAPPING CENTER

STATE California COUNTY Tuolumne QUAD NAME Tuolumne Mdws
STATION NAME and/or NUMBER 8337 USGS QUAD NUMBER 454 (3711914)
LATITUDE ° ' " TYPE of MARK: BM TRAV. TRIANG. DOPPLER
LONGITUDE ° ' " YEAR ESTABLISHED 1898
ELEVATION _____ ft/meter By: USGS NGS OTHER _____
CONDITION Not Found (Name of agency)
MARK STAMPED _____

REMARKS or REVISED DESCRIPTION:

The road at Cathedral Creek crossing has been extensively altered in reconstruction. The mark is probably permanently buried beneath the road fill.

SUBMITTED BY R. F. Wilson AGENCY USGS NMD _____ DATE 8/7/87

Marks found in good condition need not be reported unless description is inadequate.

Please prepare in triplicate

GSC-178

REPORT ON CONDITION OF SURVEY MARK

MAPPING CENTER

STATE California COUNTY Tuolumne QUAD NAME Tuolumne Mdws
STATION NAME and/or NUMBER 8146 USGS QUAD NUMBER 454 (3711914)
LATITUDE ° ' " TYPE of MARK BM TRAV. TRIANG. DOPPLER
LONGITUDE ° ' " YEAR ESTABLISHED 1898
ELEVATION ft/meter By USGS NGS OTHER _____
CONDITION Not found MARK STAMPED _____
(Name of agency)

REMARKS or REVISED DESCRIPTION:

The entire west and northwest shoreline of Lake Tanaya was searched without success. The three log cabins referred to in the description could not be found and probably don't exist.

SUBMITTED BY R. F. Wilson AGENCY USGS NMD NMD DATE 8/7/87

Marks found in good condition need not be reported unless description is inadequate.

Please prepare in triplicate.

GSC-178

TUOLUMNE MEADOWS
USGS Vertical Control 1898

LINE 1
454
3711914

Soda Springs, 3.5 mi. east of, on north side of Tioga Rd., where SFNF trail comes in from the meadows east of road, in ledge of rock, aluminum bolt stamped "USGS 9270 ft BMO" 9275.559 R

Soda Springs, 100 ft west of, in large granite boulder on south side of trail; aluminum bolt stamped "USGS 8594 ft B.M.O." OK

8599.441
(4-27)

T1S, R23E., SE corner of sec. 1, Diablo Meridian; iron post stamped stamped "8555.0".

OK
usgs BM pipe & cap - rocks for
3-c.t.

Cathedral Creek, in conspicuous rock in north side of creek bed, 50 ft from rd.; aluminum bolt stamped "USGS 8337 ft. B.M.O." 8343.940 R

JFNF

Lake Tanaya, on west shore of, in large boulder between rd. and lake shore, about 300 ft. east of three log cabins in grove of trees, al. tablet stamped "USGS 8146 ft. BMO." R

8151.312
SFNF

Snow Flat (Plotted last year.)

Rept
8/87