

LEVELING  
AIRPORTS IN CA  
8 MI NE OF EUREKA TO EUREKA NAVAL AUXILIARY AIR FACILITY  
CS /NGS

RUN DATE: 23 OCT 84 TIME: 14:24  
12 DEC 1944 16 DEC 1944

PAGE 1  
HGZ L11271 PART 15  
4.0 MM 1ST-ORDER/CLASS II

SPSN	ACRN	DESIGNATION	SPUR CODES	DISTANCE KM	OBSERVED HT METERS	NORMAL ORTHO HT METERS	RUNS	LATITUDE DD MM SS	LONGITUDE DDD MM SS
4	LVO478	D 75		0.000	16.48910	16.48910	0	40 53 22	124 04 43
5		TBM 5 V		0.798	18.15377	18.15378	2	40 53 01	124 04 53*
6		TBM 6 V		1.568	19.14028	19.14030	2	40 52 41	124 05 03*
7	LVO303	E 75		2.005	24.64557	24.64560	2	40 52 29	124 05 09
8		TBM 1 V		2.858	11.74343	11.74347	2	40 52 16	124 05 36*
9	LVO302	N 735	)	2.989	9.88075	9.88079	2	40 52 02	124 05 00
8		TBM 1 V	*	2.858	11.74343	11.74347	2	40 52 16	124 05 36*
10		TBM 2 V		3.355	3.10340	3.10344	2	40 52 09	124 05 51*
11		TBM 3 V	)	4.404	1.52956	1.52960	2	40 51 32	124 05 27*
12	LVO299	P 735	))	4.449	1.06859	1.06863	2	40 51 23	124 05 17
11		TBM 3 V	)*	4.404	1.52956	1.52960	2	40 51 32	124 05 27*
13		TBM 4 V	)	5.271	2.34912	2.34916	3	40 51 02	124 05 07*
14	LVO297	G 75	)	5.994	2.41800	2.41804	4	40 50 37	124 04 50
10		TBM 2 V	*	3.355	3.10340	3.10344	2	40 52 09	124 05 51*
15	LVO477	M 735		3.837	3.60643	3.60647	2	40 52 02	124 06 06
16		TBM 11 V		4.634	2.49566	2.49570	2	40 52 04	124 06 46*
17	LVO342	L 735		5.156	1.87688	1.87692	2	40 52 05	124 07 12
18		TBM 12 V		5.898	1.98900	1.98904	2	40 52 05	124 07 24*
19	LVO343	K 735		7.013	0.42812	0.42816	2	40 52 06	124 07 43
20		TBM 13 V		7.831	1.40251	1.40255	2	40 52 01	124 08 16*
21	LVO345	J 735		8.798	2.01308	2.01312	2	40 51 56	124 08 56
22		TBM 14 V		9.746	4.32503	4.32507	2	40 51 31	124 09 19*
23	LVO348	H 735		10.594	3.50986	3.50990	2	40 51 09	124 09 40
24		TBM 15 V		11.508	8.35767	8.35771	2	40 50 42	124 09 53*
25		TBM 16 V		12.126	7.05666	7.05670	3	40 50 24	124 10 01*
26		TBM 19 V	)	12.383	4.00548	4.00552	1	40 50 18	124 10 10*
27	LVO349	G 735	)	12.425	4.00549	4.00553	2	40 50 17	124 10 11
25		TBM 16 V	*	12.126	7.05666	7.05670	3	40 50 24	124 10 01*
28		TBM 17 V		13.263	4.15697	4.15701	2	40 49 50	124 10 17*
29	LVO351	F 735		14.300	3.95940	3.95944	2	40 49 20	124 10 31
30		TBM 7 V		15.134	6.07042	6.07046	3	40 49 03	124 10 55*
31	LVO353	E 735		16.000	5.02001	5.02005	2	40 48 45	124 11 20
32		TBM 8 V		16.705	2.68973	2.68977	3	40 48 25	124 11 28*
33		TBM 9 V		17.395	2.10671	2.10675	3	40 48 06	124 11 35*
34	LVO355	D 735		18.105	5.83386	5.83390	2	40 47 46	124 11 43

LEVELING  
AIRPORTS IN CA  
8 MI NE OF EUREKA TO EUREKA NAVAL AUXILIARY AIR FACILITY  
CS /NGS

RUN DATE: 23 OCT 84 TIME: 14:24

12 DEC 1944 16 DEC 1944

PAGE 2  
HGZ L11271 PART 15  
4.0 MM 1ST-ORDER/CLASS II

SPSN	ACRN	DESIGNATION	SPUR CODES	DISTANCE KM	OBSERVED HT METERS	NORMAL ORTHO HT METERS	RUNS	LATITUDE DD MM SS	LONGITUDE DDD MM SS
35		TBM 10 V							
36	LVO356	C 735		18.960	2.45810	2.45814	2	40 47 22	124 11 59*
37	LVO357	A 735		19.750	3.73056	3.73060	2	40 47 00	124 12 13
38	LVO485	B 735		20.321	2.92120	2.92124	2	40 46 47	124 12 26
39		TBM 18 V		20.553	2.42499	2.42503	4	40 46 50	124 12 30
				20.999	6.12948	6.12952	3	40 46 50	124 12 30*

LEVELING  
 AIRPORTS IN CA  
 8 MI NE OF EUREKA TO EUREKA NAVAL AUXILIARY AIR FACILITY  
 CS /NGS

RUN DATE: 23 OCT 84 TIME: 14:24

PAGE 1  
 HGZ L11271 PART 15  
 4.0 MM 1ST-ORDER/CLASS II

12 DEC 1944 16 DEC 1944

-- ROD STANDARDIZATION --

EQUIP CODE	SERIAL NO	MANUFACTURER	MODEL	GRAD CODE	ROD UNITS	STD TEMP (C)	COEF EXPN (/C)	ROD EXCESS	INDEX ERROR
							X.0001	X.001	
312	435	USC&GS	INVAR		CM	22.3	0.0050A	-0.0643C	0.0000C
312	427	USC&GS	INVAR		CM	23.7	0.0050A	-0.0643C	0.0000C
MEANS FOR ROD PAIR NUMBER 1						23.0	0.0050	-0.0643	

PARAMETER FLAGS: A - ASSUMED, C - COMPUTED, R - FROM ARCHIVAL RECORDS  
 U - USED PREVIOUSLY COMPUTED VALUE, ? - REDUC4 DEFAULT  
 I - INTERPOLATED (25\*), \* - TAKEN FROM 16\* RECORD

LEVELING  
 AIRPORTS IN CA  
 8 MI NE OF EUREKA TO EUREKA NAVAL AUXILIARY AIR FACILITY  
 CS /NGS

RUN DATE: 23 OCT 84 TIME: 14:24

PAGE 1  
 HGZ L11271 PART 15  
 4.0 MM 1ST-ORDER/CLASS II

12 DEC 1944 16 DEC 1944

-- INSTRUMENT INFORMATION AND COLLIMATION DATA --

INST	EQ CODE	SERIAL NO	MODEL	STADIA CONST	STADIA DATE	MICRO METER	MAG CONST	MAG POWER	MAG DATE	CAL	ROD PAIR	40*
1	211	G81	FISCHER	USC&GS								
	12 DEC 44	925	-0.0020 *	337	19441204							
	13 DEC 44	855	-0.0030 *	337	19441204						1	1
	14 DEC 44	900	-0.0030 *	337	19441204						1	2
	15 DEC 44	900	-0.0010 *	337	19441204						1	3
	15 DEC 44	1435	-0.0090 *	337	19441204						1	4
	16 DEC 44	835	-0.0020 *	337	19441204						1	5
											1	6

\* - COLLIMATION CORRECTION FACTOR (ROD UNIT PER ROD UNIT OF STADIA INTERVAL)  
 \$ - COLLIMATION ERROR (MM/M OR RADIANS X 1000)

LEVELING                      RUN DATE: 23 OCT 84     TIME: 14:24  
AIRPORTS IN CA  
8 MI NE OF EUREKA TO EUREKA NAVAL AUXILIARY AIR FACILITY  
CS /NGS                                      12 DEC 1944                      16 DEC 1944

PAGE 3  
HGZ L11271     PART 15  
4.0 MM 1ST-ORDER/CLASS II

PROCESSING OPTIONS USED

" " REFRACTION CODE  
"2" POSITION CODE  
"A" REJECTION CODE  
" " MAGNETIC CODE

PERCENT OF RUNNINGS CORRECTED

100.0 LEVEL COLLIMATION

100.0 ROD CALIBRATION

100.0 AVERAGE EXCESS  
0.0 DETAILED CALIBRATION (FROM 43\* RECORDS)

100.0 TEMPERATURE

0.0 PREDICTED TEMPERATURES  
100.0 OBSERVED TEMPERATURES

100.0 ASTRONOMIC

0.0 MAGNETIC

100.0 REFRACTION

100.0 COMPUTED BY REDUC4  
0.0 TAKEN FROM 43\* RECORDS (PREDICTED TEMPERATURES)  
0.0 TAKEN FROM 43\* RECORDS (OBSERVED TEMPERATURES)

PREDICTED TEMPERATURES ARE COMPUTED FROM THE SOLAR RADIATION MODEL

NORMAL ORTHOMETRIC HEIGHTS HAVE BEEN COMPUTED BASED ON NORMAL GRAVITY  
(USC & GS SPECIAL PUBLICATION 240)

ASSUMED THERMAL EXPANSION VALUES WERE USED FOR SOME OR ALL OF THE RODS

LEVELING                      RUN DATE: 23 OCT 84      TIME: 14:24  
AIRPORTS IN CA  
8 MI NE OF EUREKA TO EUREKA NAVAL AUXILIARY AIR FACILITY  
CS /NGS                                      12 DEC 1944                      16 DEC 1944

PAGE 1  
HGZ L11271      PART 15  
4.0 MM 1ST-ORDER/CLASS II

1.79 MM STANDARD DEVIATION OF A 1 KM SINGLE RUN SECTION  
1.27 MM STANDARD DEVIATION OF A 1 KM DOUBLE RUN SECTION  
34                      SECTIONS USED TO COMPUTE STANDARD DEVIATIONS  
20.999 KM MAIN LINE LENGTH  
3.114 KM SPUR LINE LENGTH  
54.161 KM UNREJECTED LEVELING  
17                      BENCHMARKS  
19                      TEMPORARY BENCHMARKS  
35                      SECTIONS  
0                      RIVER/VALLEY CROSSINGS  
79                      RUNNINGS  
0.0                      PERCENT OF RUNNINGS REJECTED  
12.7                      PERCENT RERUNS