Line: L25411 Part: 1 State: NV Levelman: JMV

From: D 9 HN (0179) To: 70 TJS (0180)

Date: 02/17/93 Begin: 08:58 End: 09:45 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Partly cloudy (25%-75% clouds) Wind from the: South at 10-25 km/hr

Collimation check(s):
Time: 07:37 BSCWL= 19767 STADIA= 1716 FSCWL= 19753 C= .01346

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	14223	1120	40781	3768	100009	73452	46.9	50.0
002	23968	2098	36700	3370	95971	83241	47.0	47.9
003	30076	2679	36887	3361	96116	89307	46.5	46.8
004	24696	2149	28051	2482	87324	83965	46.7	46.6
005	33901	3041	32145	2879	91371	93125	48.0	48.5
006	34858	3142	32163	2869	91442	94135	48.2	49.4
007	42782	3939	34305	3111	93529	102007	39.1	49.1
008	29513	2625	27548	2426	86821	88789	48.8	49.4
009	41237	3761	11768	1517	70992	100460	49.4	49.4
010	34367	3168	10849	1347	70122	93643	48.4	50.3

BS stadia distance: 318.8 meters
FS stadia distance: 316.8 meters
Length of section: .636 kilometers

Low scale el. diff.: .92120 meters
High scale el. diff.: .92135 meters
Mean elevation diff.: .92128 meters

*** This data was collected according to 1st order. Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 70 TJS (0180) To: D 9 HN (0179)

Date: 02/18/93 Begin: 13:52 End: 14:30 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Overcast (>75% clouds) Wind from the: South at 10-25 km/hr

Collimation check(s):
Time: 07:38 BSCWL= 18348 STADIA= 1580 FSCWL= 18334 C= .01378

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	12279	1499	47551	4468	106780	71510	53.0	53.2
002	26308	2332	37420	3438	96692	85582	53.0	52.9
003	23065	1946	32529	2893	91756	82291	51.8	51.7
004	35178	3110	41243	3728	100519	94454	51.7	51.2
005	30728	2651	35860	3169	95081	89948	50.4	49.3
006	33232	2921	40894	3684	100169	92511	47.6	46.7
007	42952	3861	28095	2378	87311	102169	47.0	46.4
008	36480	3245	28085	2402	87359	95757	46.6	46.3
009	43491	4115	19627	1729	78857	102721	46.3	45.9
010	34327	3348	25176	2429	84435	93584	45.8	45.4

BS stadia distance: 328.0 meters Low scale el. diff.: -.92200 meters
FS stadia distance: 327.2 meters High scale el. diff.: -.92160 meters
Length of section: .655 kilometers Mean elevation diff.: -.92180 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 70 TJS (0180) To: D 8 HN (0181)

Date: 02/17/93 Begin: 10:45 End: 11:29 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: South at 10-25 km/hr

Collimation check(s):
Time: 07:37 BSOWL= 19767 STADIA= 1716 FSOWL= 19753 C= .01346

SETUP	BSOWL	BSSTAD	FSOWL	FSSTAD	FSOWH	BSOWH	UTEMP	LTEMP
001	14334	1138	45967	4294	105194	73560	49.5	52.4
002	22323	1935	20657	1778	79925	81596	52.1	53.5
003	32394	2935	33097	3008	92321	91623	51.8	52.6
004	37056	3431	23913	2121	83187	96331	52.3	53.3
005	36535	3355	28702	2577	87927	95760	52.7	53.7
006	40390	3741	28715	2582	87990	99663	53.6	54.7
007	38916	3593	26215	2313	85439	98144	52.8	54.7
008	36478	3345	16794	1373	76065	95752	53.5	55.2
009	46398	4386	21077	1870	80310	105633	53.7	55.6
010	41074	3877	22400	2014	81668	100344	52.4	54.5

BS stadia distance: 279.4 meters
FS stadia distance: 278.0 meters
Length of section: .557 kilometers
Low scale el. diff.: 3.91805 meters
High scale el. diff.: 3.91900 meters
Mean elevation diff.: 3.91853 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: D 8 HN (0181) To: 70 TJS (0180)

Date: 02/18/93 Begin: 12:32 End: 13:04 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Overcast (>75% clouds) Wind from the: South at <10 km/hr

Collimation check(s):
Time: 07:38 BSCWL= 18348 STADIA= 1580 FSCWL= 18334 C= .01378

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	17190	1439	45109	4239	104339	76419	53.8	54.3
002	22616	2043	38950	3671	98218	81881	53.7	54.2
003	15581	1161	38162	3420	97382	74801	53.7	54.0
004	23723	2002	37061	3337	96339	83000	53.7	53.9
005	22511	1861	37183	3319	96402	81731	53.2	53.7
006	21594	1762	35137	3120	94415	80872	53.0	53.7
007	31605	2781	29649	2583	88869	90829	54.2	54.9
008	42276	3852	14228	1054	73506	101550	53.8	55.0

BS stadia distance: 276.9 meters Low scale el. diff.: -3.91915 meters
FS stadia distance: 276.7 meters High scale el. diff.: -3.91935 meters
Length of section: .554 kilometers Mean elevation diff.: -3.91925 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: D 8 HN (0181) To: D 7 HN (0182)

Date: 02/17/93 Begin: 12:51 End: 13:39 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: South at 10-25 km/hr

Collimation check(s):
Time: 07:37 BSCWL= 19767 STADIA= 1716 FSCWL= 19753 C= .01346

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	21545	1915	38768	3629	97999	80776	54.5	56.6
002	18113	1547	30750	2802	90027	77386	54.2	59.0
003	36603	3368	29126	2617	88355	95832	53.2	57.0
004	32255	2932	38862	3600	98127	91532	56.4	57.0
005	29252	2671	37186	3468	96415	88477	55.8	57.3
006	27411	2458	17147	1426	76421	86687	56.1	58.6
007	30465	2761	27716	2487	86941	89691	55.3	57.5
008	36130	3339	25860	2313	85135	95405	56.5	58.6
009	35330	3252	32288	2935	91517	94557	55.8	58.0
010	16578	1450	33652	3166	92919	75848	54.8	57.5
011	40482	3782	27225	2467	86453	99712	55.1	58.0
012	38829	3594	25685	2290	84960	98106	54.9	58.0
013	38568	3583	27379	2469	86609	97796	55.7	56.0
014	32280	3093	24933	2346	84198	91541	56.0	58.4

BS stadia distance: 357.5 meters Low scale el. diff.: .86320 meters
FS stadia distance: 356.5 meters High scale el. diff.: .86300 meters
Length of section: .714 kilometers Mean elevation diff.: .86310 meters

*** This data was collected according to 1st order. Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: D 7 HN (0182) To: D 8 HN (0181)

Date: 02/18/93 Begin: 10:54 End: 11:38 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Overcast (>75% clouds) Wind from the: South at <10 km/hr

Collimation check(s):
Time: 07:38 BSCWL= 18348 STADIA= 1580 FSCWL= 18334 C= .01378

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	17355	1449	43933	4097	103164	76587	52.1	53.1
002	37044	3326	37159	3348	96432	96316	52.2	53.0
003	25054	2230	38016	3531	97248	84286	53.2	53.8
004	32627	2832	20277	1587	79551	91900	52.6	52.7
005	26555	2284	38300	3470	97525	85781	53.0	53.4
006	26553	2301	31579	2806	90853	85825	52.8	53.4
007	22454	2109	36305	3499	95546	81694	53.2	53.8
008	39443	3575	28892	2514	88165	98715	52.6	53.6
009	41105	3750	34873	3127	94099	100329	52.7	53.9
010	28276	2482	35884	3237	95157	87548	53.0	53.7
011	43889	4109	20463	1753	79692	103122	53.0	54.1
012	33132	3191	25074	2383	84332	92391	53.7	54.6

BS stadia distance: 365.2 meters Low scale el. diff.: -.86340 meters
FS stadia distance: 365.8 meters High scale el. diff.: -.86350 meters
Length of section: .731 kilometers Mean elevation diff.: -.86345 meters

*** This data was collected according to 1st order. Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: D 7 HN (0182) To: D 6 HN (0183)

Date: 02/17/93 Begin: 14:25 End: 15:25 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: South at 10-25 km/hr

Collimation check(s):
Time: 07:37 BSCWL= 19767 STADIA= 1716 FSCWL= 19753 C= .01346

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	29893	2706	39991	3720	99218	89119	56.5	60.4
002	13125	1071	36633	3413	95903	72397	56.0	58.5
003	30219	2723	26589	2351	85811	89443	56.8	58.6
004	32760	2938	33907	3058	93188	92039	57.0	59.8
005	30496	2745	33735	3078	92962	89722	56.7	60.0
006	29705	2658	26855	2368	86130	88983	56.6	59.4
007	35005	3200	42594	3958	101818	94228	56.7	58.3
008	28083	2469	18157	1479	77435	87365	56.1	59.1
009	33958	3088	34372	3123	93595	93183	57.0	59.4
010	19273	1771	43253	4168	102518	78538	56.0	58.2
011	48861	4643	22853	2048	82083	108090	56.9	59.7
012	27662	2480	35800	3312	95075	86940	58.2	59.4
013	37376	3452	33501	3070	92724	96603	56.1	57.8
014	36353	3374	31534	2874	90810	95627	55.8	57.3
015	29316	2587	24535	2114	83755	88532	56.6	58.4
016	44498	4067	15332	1172	74618	103781	56.7	57.9

BS stadia distance: 459.8 meters Low scale el. diff.: .34710 meters
FS stadia distance: 458.4 meters High scale el. diff.: .34735 meters
Length of section: .918 kilometers Mean elevation diff.: .34723 meters

*** This data was collected according to 1st order. Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: D 6 HN (0183) To: D 7 HN (0182)

Date: 02/18/93 Begin: 09:02 End: 10:01 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Overcast (>75% clouds) Wind from the: South at <10 km/hr

Collimation check(s):
Time: 07:38 BSCWL= 18348 STADIA= 1580 FSCWL= 18334 C= .01378

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	15882	1308	45098	4230	104331	75114	49.5	49.7
002	21642	1912	29324	2668	88591	80908	49.7	49.8
003	35122	3134	31571	2772	90796	94347	49.8	50.1
004	28909	2509	38199	3411	97473	88183	49.8	49.8
005	38581	3452	38920	3509	98146	97804	50.1	50.3
006	28505	2427	19514	1518	78795	87782	50.1	50.4
007	26739	2281	51892	4798	111119	85963	50.1	50.3
008	50758	4774	27485	2440	86754	110027	50.0	50.2
009	25108	2131	31035	2720	90262	84334	50.2	50.3
010	34585	3067	28881	2492	88157	93858	50.4	50.6
011	33227	2921	38259	3419	97483	92452	50.4	50.7
012	32589	2978	28028	2529	87298	91856	50.4	50.7
013	46402	4393	15491	1300	74723	105634	50.2	50.6
014	32303	3055	33603	3202	92864	91564	50.2	50.3

BS stadia distance: 463.8 meters Low scale el. diff.: -.34740 meters
FS stadia distance: 464.2 meters High scale el. diff.: -.34830 meters
Length of section: .928 kilometers Mean elevation diff.: -.34785 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: D 6 HN (0183) To: 71 TJS (0184)

Date: 02/18/93 Begin: 07:38 End: 08:15 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Overcast (>75% clouds) Wind from the: South at <10 km/hr

Collimation check(s):
Time: 07:38 BSCWL= 18348 STADIA= 1580 FSCWL= 18334 C= .01378

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	18349	1580	37309	3474	96534	77575	46.6	46.2
002	24344	2119	31328	2816	90608	83623	46.9	46.7
003	33939	3000	30029	2622	89247	93155	47.0	46.9
004	34852	3089	24301	2041	83586	94137	47.0	46.9
005	41271	3739	37070	3300	96290	100486	47.3	47.2
006	59921	5590	20574	1651	79851	119200	47.3	47.2
007	47612	4371	17349	1350	76572	106838	47.4	47.3
008	42290	3832	24059	2011	83337	101569	47.5	47.5
009	33484	3005	16458	1303	75684	92709	47.7	47.5
010	32093	3137	27779	2716	87034	91349	47.9	47.8

BS stadia distance: 329.8 meters Low scale el. diff.: 5.09495 meters
FS stadia distance: 329.6 meters High scale el. diff.: 5.09490 meters
Length of section: .659 kilometers Mean elevation diff.: 5.09493 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 71 TJS (0184) To: D 6 HN (0183)

Date: 02/24/93 Begin: 15:48 End: 16:26 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: South at 10-25 km/hr

Collimation check(s):
Time: 07:47 BSCWL= 24112 STADIA= 2133 FSCWL= 24101 C= .00989

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	17470	1420	32373	2902	91597	76696	54.2	56.1
002	19861	1608	40690	3682	99970	79137	54.1	54.5
003	17266	1321	48645	4463	107862	76486	54.4	55.0
004	17121	1368	57068	5371	116241	76395	54.1	55.7
005	37911	3387	39269	3520	98486	97127	54.1	55.0
006	22650	1859	37288	3318	96571	81931	53.8	54.3
007	29889	2576	33948	2979	93165	89107	54.3	55.1
008	38240	3610	24510	2223	83778	97508	53.2	54.2
009	32994	3129	26975	2539	86213	92231	52.8	54.1
010	31257	2932	25798	2390	85063	90521	52.7	53.9

BS stadia distance: 320.0 meters Low scale el. diff.: -5.09525 meters
FS stadia distance: 320.3 meters High scale el. diff.: -5.09535 meters
Length of section: .640 kilometers Mean elevation diff.: -5.09530 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 71 TJS (0184) To: D 5 HN (0185)

Date: 02/24/93 Begin: 07:47 End: 08:33 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Partly cloudy (25%-75% clouds) Wind from the: South at <10 km/hr

Collimation check(s):
Time: 07:47 BSOWL= 24112 STADIA= 2133 FSOWL= 24101 C= .00989

SETUP	BSOWL	BSSTAD	FSOWL	FSSTAD	FSOWH	BSOWH	UTEMP	LTEMP
001	24111	2133	35558	3268	94786	83338	39.4	40.2
002	29652	2569	18793	1475	78074	88933	40.0	40.3
003	41748	3775	22946	1907	82168	100970	41.1	40.9
004	38590	3458	27449	2350	86729	97869	42.0	41.8
005	38119	3409	20289	1622	79598	97339	41.4	41.1
006	42275	3826	24943	2091	84225	101556	41.4	41.0
007	32356	2844	22957	1910	82187	91584	41.6	41.5
008	42154	3817	21131	1720	80410	101434	41.5	41.2
009	41381	3741	20474	1653	79695	100602	41.1	41.1
010	42361	3840	14693	1079	73971	101637	42.4	42.7
011	39642	3705	20133	1760	79366	98874	43.7	43.8
012	32212	3142	26100	2519	85357	91468	43.3	44.0

BS stadia distance: 414.1 meters
FS stadia distance: 412.6 meters
Length of section: .827 kilometers

Low scale el. diff.: 8.45675 meters
High scale el. diff.: 8.45640 meters
Mean elevation diff.: 8.45658 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: D 5 HN (0185) To: 71 TJS (0184)

Date: 02/24/93 Begin: 14:25 End: 15:16 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Partly cloudy (25%-75% clouds) Wind from the: South at 10-25 km/hr

Collimation check(s):
Time: 07:47 BSOWL= 24112 STADIA= 2133 FSOWL= 24101 C= .00989

SETUP	BSOWL	BSSTAD	FSOWL	FSSTAD	FSOWH	BSOWH	UTEMP	LTEMP
001	18519	1578	39667	3673	98899	77754	53.8	56.9
002	19682	1662	42651	3950	101921	78950	55.2	56.6
003	22624	1962	38436	3553	97670	81855	55.3	56.8
004	21945	1878	38884	3570	98157	81214	55.0	57.3
005	21730	1848	39096	3583	98324	80961	54.1	56.4
006	23029	1976	31914	2870	91284	82297	54.0	55.6
007	28145	2476	40774	3738	100003	87373	53.9	54.9
008	22859	1948	40985	3761	100256	82127	54.3	55.6
009	27067	2371	37929	3462	97158	86293	54.8	57.1
010	29821	2640	42437	3898	101712	89095	54.6	55.2
011	27535	2410	41348	3793	100573	86756	53.8	55.6
012	19216	1587	23253	1990	82532	78495	53.8	55.6
013	29479	2731	26685	2448	85913	88711	53.8	55.2
014	31555	3082	28272	2753	87528	90810	54.5	55.6

BS stadia distance: 411.1 meters Low scale el. diff.: -8.45615 meters
FS stadia distance: 410.8 meters High scale el. diff.: -8.45695 meters
Length of section: .822 kilometers Mean elevation diff.: -8.45655 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: D 5 HN (0185) To: 73 TJS (0186)

Date: 02/24/93 Begin: 09:21 End: 10:00 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Partly cloudy (25%-75% clouds) Wind from the: South at 10-25 km/hr

Collimation check(s):
Time: 07:47 BSOWL= 24112 STADIA= 2133 FSOWL= 24101 C= .00989

SETUP	BSOWL	BSSTAD	FSOWL	FSSTAD	FSOWH	BSOWH	UTEMP	LTEMP
001	22100	1890	36835	3363	96071	81341	44.0	47.6
002	23965	2058	32202	2883	91468	83229	44.6	46.7
003	25502	2185	39467	3556	98696	84733	45.0	46.6
004	30712	2680	31116	2723	90384	89979	45.2	46.0
005	34339	3042	34351	3040	93581	93567	44.3	44.9
006	32341	2840	28708	2480	87984	91615	44.1	44.6
007	27845	2390	33965	3001	93197	87073	43.8	44.7
008	27912	2384	40515	3659	99786	87186	44.0	44.6
009	36320	3328	21218	1821	80449	95554	45.8	45.6
010	30410	2977	31255	3045	90511	89664	46.8	47.5

BS stadia distance: 336.6 meters
FS stadia distance: 335.9 meters
Length of section: .673 kilometers

Low scale el. diff.: -1.90930 meters
High scale el. diff.: -1.90930 meters
Mean elevation diff.: -1.90930 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 73 TJS (0186) To: D 5 HN (0185)

Date: 02/24/93 Begin: 13:09 End: 13:52 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Partly cloudy (25%-75% clouds) Wind from the: South at 10-25 km/hr

Collimation check(s):
Time: 07:47 BSCWL= 24112 STADIA= 2133 FSCWL= 24101 C= .00989

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	25313	2283	40896	3838	100133	84553	52.4	54.3
002	34348	3070	22327	1872	81600	93617	54.2	57.3
003	32876	2998	28574	2553	87807	92109	52.7	54.5
004	33844	3083	28786	2568	88051	93111	51.4	53.0
005	28698	2581	35079	3220	94312	87934	50.6	51.4
006	34837	3197	29223	2633	88487	94104	53.6	55.7
007	29056	2611	34083	3114	93320	88292	53.0	55.0
008	33246	3030	30264	2721	89531	92509	51.1	51.7
009	36027	3309	24794	2177	84029	95261	52.8	55.8
010	32949	2994	28957	2597	88223	92213	52.1	53.6
011	38109	3532	22771	1976	82007	97345	51.2	52.7
012	32900	3118	28270	2668	87529	92161	54.6	55.3

BS stadia distance: 336.3 meters Low scale el. diff.: 1.90895 meters
FS stadia distance: 338.3 meters High scale el. diff.: 1.90900 meters
Length of section: .675 kilometers Mean elevation diff.: 1.90898 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 73 TJS (0186) To: D 4 HN (0190)

Date: 02/24/93 Begin: 10:50 End: 11:49 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Partly cloudy (25%-75% clouds) Wind from the: South at 10-25 km/hr

Collimation check(s):
Time: 07:47 BSCWL= 24112 STADIA= 2133 FSCWL= 24101 C= .00989

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	19422	1736	44722	4268	103961	78662	48.3	52.6
002	17338	1598	47157	4580	106415	76595	47.3	49.2
003	25331	2151	39905	3627	99132	84563	50.2	50.8
004	29624	2632	36252	3283	95521	88897	51.5	52.8
005	47067	4428	22153	1941	81388	106300	48.6	50.2
006	20628	1726	39409	3608	98382	79902	49.6	50.6
007	31180	2788	35224	3183	94453	90411	48.6	49.7
008	25035	2183	35789	3251	95059	84309	49.1	49.7
009	24444	2121	35051	3183	94284	83673	49.8	50.4
010	32277	2908	33759	3067	93031	91546	50.7	51.5
011	26911	2378	40047	3688	99277	86144	48.9	49.2
012	34528	3132	19939	1677	79209	93799	48.0	48.4
013	31848	2889	26765	2380	86000	91083	48.6	49.5
014	42203	3883	16770	1342	76042	101479	49.5	50.8

BS stadia distance: 417.7 meters Low scale el. diff.: -3.25530 meters
FS stadia distance: 415.2 meters High scale el. diff.: -3.25455 meters
Length of section: .833 kilometers Mean elevation diff.: -3.25492 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: D 4 HN (0190) To: 73 TJS (0186)

Date: 03/04/93 Begin: 12:11 End: 13:12 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: South at <10 km/hr

Collimation check(s):
Time: 07:24 BSCWL= 20929 STADIA= 1973 FSCWL= 20921 C= .01681

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	19492	1666	41878	3912	101101	78712	62.2	64.6
002	24048	2173	32994	3083	92262	83318	61.0	64.6
003	28757	2631	38711	3620	97886	87931	62.8	67.4
004	29500	2748	32875	3078	92189	88814	63.6	66.8
005	36448	3433	26110	2410	85296	95632	62.4	64.7
006	34499	3226	30580	2830	89900	93816	63.5	65.4
007	33078	3087	33140	3099	92321	92258	63.2	65.8
008	33280	3120	26430	2432	85748	92594	66.2	66.6
009	36292	3406	29762	2750	88940	95474	62.2	64.5
010	35285	3317	26948	2490	86262	94602	64.1	67.0
011	35803	3379	33242	3117	92425	94986	62.8	64.3
012	32744	3067	28409	2641	87725	92060	64.4	66.9
013	37771	3569	25330	2323	84513	96955	64.0	67.0
014	37629	3549	47652	4552	106967	96947	64.2	67.8
015	21508	1948	34602	3258	93785	80691	63.0	66.5
016	39129	3697	30666	2844	89988	98447	63.0	65.8
017	32278	3013	25042	2300	84230	91462	62.2	65.8
018	30898	2861	18890	1655	78213	90219	62.3	66.3
019	56477	5446	18553	1662	77743	115664	63.6	65.2
020	36838	3569	24830	2375	84115	96125	63.1	66.8

BS stadia distance: 415.5 meters Low scale el. diff.: 3.25550 meters
FS stadia distance: 413.9 meters High scale el. diff.: 3.25490 meters
Length of section: .829 kilometers Mean elevation diff.: 3.25520 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: D-4 HN (0190) To: 74 TJS (0191)

Date: 03/01/93 Begin: 12:59 End: 13:45 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: South at <10 km/hr

Collimation check(s):
Time: 12:59 BSCWL= 21376 STADIA= 1894 FSCWL= 21388 C= -.01235

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	21396	1895	41892	3928	101123	80627	53.2	56.0
002	20714	1837	35634	3318	94906	79988	54.1	57.8
003	24824	2245	28743	2637	87972	84049	54.2	58.5
004	28084	2547	51950	4941	111224	87358	53.8	57.9
005	42665	4112	18202	1678	77437	101902	54.4	57.7
006	43325	4083	30189	2770	89452	102597	54.1	57.7
007	33063	3050	29850	2727	89077	92288	54.2	58.2
008	32384	2981	33859	3125	93130	91659	54.6	58.3
009	28659	2611	38588	3603	97816	87891	55.8	58.3
010	23583	2098	34704	3213	93976	82851	56.7	59.4
011	48658	4570	23582	2065	82805	107885	52.8	56.0
012	33837	3058	19174	1598	78452	93118	54.7	59.0

BS stadia distance: 296.3 meters
FS stadia distance: 296.7 meters
Length of section: .593 kilometers

Low scale el. diff.: -.25875 meters
High scale el. diff.: -.25835 meters
Mean elevation diff.: -.25855 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 74 TJS (0191) To: D 4 HN (0190)

Date: 03/04/93 Begin: 10:01 End: 10:51 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: East at 10-25 km/hr

Collimation check(s):
Time: 07:24 BSCWL= 20929 STADIA= 1973 FSCWL= 20921 C= .01681

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	19884	1738	35875	3331	95107	79119	56.8	58.8
002	29575	2623	50343	4692	109615	88849	56.2	58.0
003	29915	2743	25598	2311	84832	89146	57.7	58.4
004	42219	3902	28229	2511	87501	101496	56.6	57.5
005	34019	3082	33610	3031	92835	93245	58.0	59.4
006	30173	2712	34530	3146	93803	89449	55.8	57.4
007	20541	1818	55398	5303	114628	79774	56.5	57.9
008	46743	4410	22869	2027	82141	106014	56.3	58.8
009	38652	3537	23861	2052	83084	97877	61.0	62.5
010	42616	3878	18865	1499	78151	101897	61.1	62.2

BS stadia distance: 294.7 meters Low scale el. diff.: .25795 meters
FS stadia distance: 295.7 meters High scale el. diff.: .25845 meters
Length of section: .590 kilometers Mean elevation diff.: .25820 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 74 TJS (0191) To: D 3 HN (0192)

Date: 03/01/93 Begin: 14:35 End: 15:10 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: North at 10-25 km/hr

Collimation check(s):
Time: 12:59 BSOWL= 21376 STADIA= 1894 FSOWL= 21388 C= -.01235

SETUP	BSOWL	BSSTAD	FSOWL	FSSTAD	FSOWH	BSOWH	UTEMP	LTEMP
001	25794	2309	35429	3262	94652	85018	58.0	60.4
002	27935	2511	35169	3228	94441	87210	57.8	59.8
003	27953	2552	35082	3252	94311	87180	56.7	58.6
004	27413	2470	34542	3183	93817	86687	56.6	59.9
005	37872	3498	32200	2938	91428	97096	56.0	60.0
006	32765	3000	28721	2618	87995	92039	57.7	59.8
007	34312	3163	27297	2453	86522	93542	57.4	61.0
008	41686	3895	22363	1957	81635	100962	56.6	60.0
009	28818	2541	26750	2339	85971	88037	56.7	59.6
010	42767	3959	25217	2227	84494	102045	58.2	59.6

BS stadia distance: 278.2 meters Low scale el. diff.: 1.22725 meters
FS stadia distance: 277.3 meters High scale el. diff.: 1.22750 meters
Length of section: .556 kilometers Mean elevation diff.: 1.22738 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: D 3 HN (0192) To: 74 TJS (0191)

Date: 03/04/93 Begin: 08:43 End: 09:22 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: East at 10-25 km/hr

Collimation check(s):
Time: 07:24 BSCWL= 20929 STADIA= 1973 FSCWL= 20921 C= .01681

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	25471	2259	39644	3660	98873	84701	51.6	52.6
002	29634	2592	38106	3440	97383	88909	52.1	53.2
003	23037	1980	41291	3803	100522	82266	53.0	53.5
004	28021	2469	36473	3307	95746	87291	52.8	54.2
005	32307	2902	34826	3160	94053	91535	52.1	53.6
006	27685	2433	24840	2147	84110	86956	52.6	53.8
007	31954	2863	32917	2973	92140	91181	52.9	54.6
008	28153	2496	21740	1851	81013	87425	53.5	54.8
009	35136	3349	23935	2233	83175	94374	54.5	56.6
010	36022	3450	28196	2677	87455	95285	54.9	57.5

BS stadia distance: 290.7 meters Low scale el. diff.: -1.22740 meters
FS stadia distance: 289.9 meters High scale el. diff.: -1.22735 meters
Length of section: .581 kilometers Mean elevation diff.: -1.22738 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: D 3 HN (0192) To: 75 TJS (0193)

Date: 03/02/93 Begin: 07:31 End: 08:09 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: South at <10 km/hr

Collimation check(s):
Time: 07:31 BSCWL= 22161 STADIA= 1918 FSCWL= 22144 C= .01426

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	22161	1918	22845	1988	82063	81377	42.4	43.3
002	50641	4680	23691	1964	82983	109931	43.0	42.9
003	30754	2700	32072	2843	91291	89969	43.5	42.6
004	35175	3113	27355	2330	86645	94463	44.0	43.8
005	46863	4303	44570	4091	103787	106079	44.3	44.5
006	14232	1027	46362	4237	105645	73514	46.7	47.9
007	21353	1741	39901	3582	99121	80574	47.8	48.6
008	24866	2278	35671	3349	94935	84133	43.4	45.1
009	30977	2957	23381	2190	82621	90217	44.6	44.8
010	43309	4240	26088	2523	85344	102566	46.2	45.7

BS stadia distance: 302.3 meters Low scale el. diff.: -.08025 meters
FS stadia distance: 303.3 meters High scale el. diff.: -.08060 meters
Length of section: .606 kilometers Mean elevation diff.: -.08043 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 75 TJS (0193) To: D 3 HN (0192)

Date: 03/04/93 Begin: 07:25 End: 08:00 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: North at <10 km/hr

Collimation check(s):
Time: 07:24 BSCWL= 20929 STADIA= 1973 FSCWL= 20921 C= .01681

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	28363	2736	39858	3884	99097	87603	44.0	42.5
002	30963	2742	27510	2386	86804	90253	45.2	44.4
003	42889	3680	16272	1228	75484	102102	46.1	45.7
004	49813	4579	19405	1543	78693	109099	46.4	46.6
005	17650	1353	35004	3106	94221	76865	47.7	48.0
006	27273	2311	31949	2763	91233	86555	47.6	47.9
007	31953	2802	45314	4157	104536	91173	48.6	48.5
008	19195	1719	33619	3172	92883	78460	48.8	48.6
009	28247	2616	25448	2328	84683	87485	48.5	48.9
010	29547	2910	29897	2938	89150	88800	48.6	48.8

BS stadia distance: 288.2 meters Low scale el. diff.: .08085 meters
FS stadia distance: 288.5 meters High scale el. diff.: .08055 meters
Length of section: .577 kilometers Mean elevation diff.: .08070 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 75 TJS (0193) To: D 2 HN (0194)

Date: 03/02/93 Begin: 08:48 End: 10:26 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: South at <10 km/hr

Collimation check(s):
Time: 07:31 BSOWL= 22161 STADIA= 1918 FSOWL= 22144 C= .01426

SETUP	BSOWL	BSSTAD	FSOWL	FSSTAD	FSOWH	BSOWH	UTEMP	LTEMP
001	20786	1938	37227	3568	96465	80025	55.8	53.8
002	28714	2626	32214	2965	91483	87980	53.5	54.7
003	26692	2422	28967	2650	88203	85923	54.5	54.6
004	32635	3069	25200	2343	84463	91898	55.8	55.5
005	25761	2308	30530	2804	89764	84993	54.1	54.2
006	29532	2713	31140	2868	90407	88797	54.5	54.7
007	28838	2642	35082	3272	94316	88068	55.4	57.5
008	30908	2858	31112	2871	90375	90175	57.0	56.8
009	34532	3247	41470	3926	100703	93766	54.2	55.2
010	40327	3808	27592	2532	86857	99595	56.7	56.4
011	35466	3308	33964	3161	93200	94698	54.5	55.3
012	30773	2839	33048	3063	92319	90045	56.0	56.0
013	22938	2070	29822	2760	89053	82174	57.4	56.2
014	22027	2040	22560	2083	81827	81289	58.6	57.5
015	37978	3567	24384	2221	83616	97207	56.5	57.8
016	35223	3309	23627	2139	82897	94488	55.4	57.8
017	32878	3070	19507	1730	78737	92109	57.8	60.5
018	32422	3180	27195	2660	86450	91677	58.2	61.2

BS stadia distance: 374.6 meters
FS stadia distance: 376.4 meters
Length of section: .751 kilometers

Low scale el. diff.: .68945 meters
High scale el. diff.: .68860 meters
Mean elevation diff.: .68902 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: D 2 HN (0194) To: 75 TJS (0193)

Date: 03/03/93 Begin: 15:38 End: 16:23 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Partly cloudy (25%-75% clouds) Wind from the: North at <10 km/hr

Collimation check(s):
Time: 07:41 BSOWL= 33246 STADIA= 2978 FSOWL= 33228 C= .01301

SETUP	BSOWL	BSSTAD	FSOWL	FSSTAD	FSOWH	BSOWH	UTEMP	LTEMP
001	19297	1598	40596	3722	99821	78524	56.9	57.9
002	14871	1114	32856	2922	92134	74150	56.6	57.2
003	21367	1767	28400	2479	87620	80591	56.8	57.0
004	41194	3714	28317	2440	87596	100475	57.4	57.9
005	31326	2722	39178	3516	98397	90545	57.8	58.5
006	34381	3131	35484	3228	94757	93652	58.5	59.5
007	28383	2472	29600	2593	88822	87606	60.6	61.4
008	32957	2919	32410	2879	91687	92237	60.0	62.0
009	28962	2507	32280	2830	91499	88182	60.6	62.4
010	35337	3158	14044	1021	73324	94615	58.3	60.2
011	35834	3400	41849	4004	101087	95073	59.4	60.2
012	43955	4307	26642	2576	85898	103212	60.6	60.8

BS stadia distance: 390.1 meters Low scale el. diff.: -.68960 meters
FS stadia distance: 390.0 meters High scale el. diff.: -.68900 meters
Length of section: .780 kilometers Mean elevation diff.: -.68930 meters

*** This data was collected according to 1st order. Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: D 2 HN (0194) To: 76 TJS (0195)

Date: 03/02/93 Begin: 11:14 End: 11:58 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: South at <10 km/hr

Collimation check(s):
Time: 07:31 BSOWL= 22161 STADIA= 1918 FSOWL= 22144 C= .01426

SETUP	BSOWL	BSSTAD	FSOWL	FSSTAD	FSOWH	BSOWH	UTEMP	LTEMP
001	26894	2459	30209	2788	89441	86126	61.0	62.8
002	29315	2710	31579	2923	90849	88584	60.7	63.2
003	29497	2721	34045	3195	93277	88727	60.2	63.4
004	32373	3013	33634	3129	92906	91643	59.6	61.5
005	33304	3096	27949	2553	87180	92531	59.2	61.3
006	29397	2753	25517	2370	84782	88663	61.5	62.2
007	36073	3373	33284	3103	92516	95304	60.8	62.4
008	29001	2683	28545	2628	87817	88272	59.1	61.6
009	28255	2601	28233	2586	87465	87483	59.2	59.6
010	38077	3572	25766	2353	85035	97347	63.0	63.2
011	25615	2382	24353	2261	83589	84849	61.8	63.5
012	38983	3714	25029	2313	84297	98249	60.0	63.4
013	31535	3022	26370	2521	85611	90772	60.3	64.5
014	31747	3081	26122	2529	85381	91005	61.8	65.2

BS stadia distance: 275.0 meters
FS stadia distance: 274.8 meters
Length of section: .550 kilometers

Low scale el. diff.: 1.97155 meters
High scale el. diff.: 1.97045 meters
Mean elevation diff.: 1.97100 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 76 TJS (0195) To: D 2 HN (0194)

Date: 03/03/93 Begin: 14:26 End: 15:00 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Overcast (>75% clouds) Wind from the: North at <10 km/hr

Collimation check(s):
Time: 07:41 BSCWL= 33246 STADIA= 2978 FSCWL= 33228 C= .01301

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	17947	2096	40031	3689	99262	77176	56.7	57.6
002	26800	2281	34511	3035	93789	86077	57.3	57.9
003	21880	1769	31882	2770	91101	81101	57.7	58.2
004	33011	2899	33451	2950	92730	92289	56.7	57.0
005	26842	2272	37873	3358	97092	86061	56.7	57.2
006	29756	2568	23791	1973	83072	89038	57.2	57.6
007	31389	2838	29380	2655	88608	90615	56.8	57.3
008	29187	2690	25310	2308	84577	88452	56.9	57.5

BS stadia distance: 283.9 meters Low scale el. diff.: -1.97085 meters
FS stadia distance: 284.2 meters High scale el. diff.: -1.97110 meters
Length of section: .568 kilometers Mean elevation diff.: -1.97098 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 76 TJS (0195) To: D 1 HN (0196)

Date: 03/02/93 Begin: 13:00 End: 13:47 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: South at <10 km/hr

Collimation check(s):
Time: 07:31 BSCWL= 22161 STADIA= 1918 FSCWL= 22144 C= .01426

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	24285	2226	28232	2623	87463	83516	62.0	66.1
002	28264	2588	26916	2441	86193	87541	65.6	67.0
003	36832	3450	27097	2470	86325	96057	66.2	66.3
004	37786	3542	25551	2340	84819	97059	63.2	66.3
005	38526	3622	30229	2789	89457	97754	64.5	66.4
006	34471	3219	25529	2332	84800	93744	63.2	66.1
007	38904	3662	26094	2373	85322	98133	63.0	66.8
008	36442	3410	26248	2390	85527	95716	63.7	67.1
009	35876	3342	29459	2712	88693	95108	63.0	67.2
010	34793	3239	27546	2536	86819	94066	64.1	67.8
011	38075	3570	32422	2998	91645	97303	63.4	64.8
012	39854	3760	21129	1872	80401	99124	62.7	65.9
013	38721	3620	21392	1881	80618	97942	64.8	66.3
014	40724	3828	19912	1750	79185	99997	62.0	66.7

BS stadia distance: 320.2 meters
FS stadia distance: 320.3 meters
Length of section: .641 kilometers

Low scale el. diff.: 6.78985 meters
High scale el. diff.: 6.78965 meters
Mean elevation diff.: 6.78975 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: D 1 HN (0196) To: 76 TJS (0195)

Date: 03/03/93 Begin: 12:53 End: 13:42 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Overcast (>75% clouds) Wind from the: North at 10-25 km/hr

Collimation check(s):
Time: 07:41 BSCWL= 33246 STADIA= 2978 FSCWL= 33228 C= .01301

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	16951	1313	43691	3990	102918	76180	58.6	59.2
002	22488	1960	39463	3660	98730	81757	57.8	60.4
003	27210	2450	42376	3961	101608	86443	58.1	61.7
004	33340	3033	39608	3664	98880	92613	58.4	60.8
005	27941	2504	36445	3349	95675	87173	58.5	61.2
006	26839	2403	36978	3410	96247	86110	58.5	61.2
007	24387	2148	41065	3820	100294	83615	56.3	58.6
008	25406	2259	31527	2860	90800	84677	57.3	59.2
009	21898	1888	39973	3700	99202	81127	57.0	59.2
010	24387	2117	38260	3509	97531	83661	56.7	58.7
011	29782	2752	28995	2673	88229	89016	55.8	57.6
012	28795	2661	26840	2470	86106	88063	57.4	58.4

BS stadia distance: 338.2 meters Low scale el. diff.: -6.78985 meters
FS stadia distance: 338.4 meters High scale el. diff.: -6.78925 meters
Length of section: .677 kilometers Mean elevation diff.: -6.78955 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: D 1 HN (0196) To: 77 TJS (0197)

Date: 03/02/93 Begin: 14:35 End: 15:22 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: South at <10 km/hr

Collimation check(s):
Time: 07:31 BSCWL= 22161 STADIA= 1918 FSCWL= 22144 C= .01426

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	27301	2487	32707	3031	91933	86527	63.4	67.8
002	25327	2280	34681	3212	93955	84604	64.4	66.9
003	27069	2400	25339	2239	84562	86288	64.1	66.3
004	34080	3110	20965	1802	80247	93359	63.8	66.0
005	28848	2565	31626	2830	90844	88066	65.7	67.2
006	37125	3382	19533	1619	78813	96406	65.0	66.7
007	21161	1975	42903	4149	102140	80400	65.2	67.3
008	42124	3878	26897	2342	86179	101406	64.9	67.8
009	42770	3939	12438	1584	71651	101984	64.1	67.1
010	43955	4203	18097	1599	77369	103223	62.8	66.1
011	37599	3604	27186	2584	86425	96836	63.6	66.1
012	35261	3413	27089	2603	86349	94521	63.2	64.4

BS stadia distance: 296.4 meters Low scale el. diff.: 4.15795 meters
FS stadia distance: 297.4 meters High scale el. diff.: 4.15765 meters
Length of section: .594 kilometers Mean elevation diff.: 4.15780 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 77 TJS (0197) To: D 1 HN (0196)

Date: 03/03/93 Begin: 11:09 End: 11:52 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Overcast (>75% clouds) Wind from the: South at <10 km/hr

Collimation check(s):
Time: 07:41 BSCWL= 33246 STADIA= 2978 FSCWL= 33228 C= .01301

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	20189	1730	44726	4194	103959	79421	54.6	55.2
002	20938	1789	47721	4475	106991	80205	54.6	54.6
003	12016	1550	29386	2580	88614	71242	54.6	55.0
004	13107	1642	18068	1460	77341	72380	54.3	54.6
005	25707	2167	37545	3338	96768	84931	55.0	54.6
006	36502	3258	38568	3462	97843	95780	55.3	55.8
007	22591	1867	37743	3387	96967	81818	55.4	55.8
008	41183	3731	24936	2108	84214	100459	55.5	56.0
009	30751	2980	28393	2742	87637	89994	54.8	55.4
010	32619	3149	31674	3052	90932	91876	54.5	54.8

BS stadia distance: 302.1 meters Low scale el. diff.: -4.15785 meters
FS stadia distance: 302.2 meters High scale el. diff.: -4.15800 meters
Length of section: .604 kilometers Mean elevation diff.: -4.15793 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 77 TJS (0197) To: DA HN (0198)

Date: 03/02/93 Begin: 16:05 End: 16:41 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: South at <10 km/hr

Collimation check(s):
Time: 07:31 BSCWL= 22161 STADIA= 1918 FSCWL= 22144 C= .01426

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	25162	2301	39056	3698	98287	84392	62.5	64.2
002	22977	2056	19171	1688	78443	82249	62.9	63.3
003	26533	2353	23157	2003	82378	85753	62.4	62.9
004	41460	3741	35672	3164	94952	100748	62.7	63.0
005	16811	1462	33067	3082	92298	76040	61.7	62.3
006	43207	3921	22056	1787	81344	102493	61.2	61.9
007	52830	4968	33205	3017	92428	112050	62.8	64.4
008	34879	3181	19740	1670	79018	94154	61.4	61.7
009	58465	5492	15062	1149	74280	117683	61.2	61.7
010	43473	4107	28765	2648	88036	102746	61.2	61.4

BS stadia distance: 294.8 meters Low scale el. diff.: 4.84230 meters
FS stadia distance: 293.4 meters High scale el. diff.: 4.84185 meters
Length of section: .588 kilometers Mean elevation diff.: 4.84207 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: DA HN (0198) To: 77 TJS (0197)

Date: 03/03/93 Begin: 09:33 End: 10:21 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Partly cloudy (25%-75% clouds) Wind from the: South at <10 km/hr

Collimation check(s):
Time: 07:41 BSCWL= 33246 STADIA= 2978 FSCWL= 33228 C= .01301

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	28620	2589	42667	3997	101900	87852	58.3	59.3
002	22980	2098	38502	3663	97767	82246	57.8	57.5
003	22734	2091	49856	4800	109094	81973	58.4	58.7
004	21771	1941	35979	3350	95248	81039	57.2	58.0
005	22901	2068	27949	2578	87181	82128	57.3	58.3
006	25460	2322	44160	4197	103426	84725	55.4	57.2
007	25401	2296	39247	3679	98479	84632	57.0	57.5
008	25754	2303	21744	1903	81013	85026	57.2	57.4
009	43619	4021	39347	3573	98568	102841	57.0	57.4
010	25050	2216	37884	3481	97165	84327	56.1	56.5
011	23714	2040	36101	3265	95321	82939	56.2	56.4
012	50283	4740	21683	1884	80955	109555	54.4	55.6

BS stadia distance: 305.5 meters Low scale el. diff.: -4.84160 meters
FS stadia distance: 308.0 meters High scale el. diff.: -4.84170 meters
Length of section: .614 kilometers Mean elevation diff.: -4.84165 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: DA HN (0198) To: 78 TJS (0199)

Date: 03/03/93 Begin: 07:41 End: 08:36 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: North at <10 km/hr

Collimation check(s):
Time: 07:41 BSOWL= 33246 STADIA= 2978 FSOWL= 33228 C= .01301

SETUP	BSOWL	BSSTAD	FSOWL	FSSTAD	FSOWH	BSOWH	UTEMP	LTEMP
001	33247	2978	44099	4073	103323	92470	50.2	51.6
002	40871	3697	17721	1398	76999	100148	48.6	50.8
003	31161	2740	32671	2878	91898	90392	48.8	49.8
004	40123	3628	24655	2062	83931	99400	48.5	49.6
005	37888	3397	34176	3030	93405	97118	49.4	50.8
006	40308	3656	20070	1627	79340	99582	50.3	50.6
007	35678	3175	17537	1368	76767	94908	50.1	51.6
008	47519	4362	21856	1789	81130	106790	51.2	53.9
009	41970	3817	12148	1596	71372	101197	52.3	53.6
010	53931	4986	18667	1453	77938	113206	51.2	52.7
011	52871	4879	13213	1718	72436	112096	51.5	54.0
012	54883	5088	14755	1081	74028	114155	52.7	54.2
013	40779	3871	27314	2541	86551	100018	53.3	53.6
014	37833	3677	25319	2426	84577	97091	51.8	55.4

BS stadia distance: 487.9 meters Low scale el. diff.: 13.24305 meters
FS stadia distance: 487.8 meters High scale el. diff.: 13.24380 meters
Length of section: .976 kilometers Mean elevation diff.: 13.24343 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 78 TJS (0199) To: DA HN (0198)

Date: 03/10/93 Begin: 07:45 End: 08:53 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460673 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Partly cloudy (25%-75% clouds) Wind from the: South at <10 km/hr

Collimation check(s):
Time: 07:44 BSCWL= 18907 STADIA= 1683 FSCWL= 18900 C= .00845

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	18907	1683	36870	3489	96106	78140	55.8	56.2
002	23553	2142	38817	3678	98083	82821	55.5	56.4
003	19885	1772	44057	4191	103291	79120	55.4	55.8
004	21385	1912	46393	4408	105661	80652	54.9	55.2
005	16681	1412	41055	3853	100285	75911	55.8	55.4
006	24198	2125	44994	4191	104266	83469	54.7	55.0
007	16082	1281	51384	4818	110613	75308	55.1	55.2
008	22253	1890	38245	3489	97526	81530	56.2	57.2
009	24251	2149	48004	4530	107234	83480	58.8	60.0
010	24055	2122	32468	2953	91736	83327	60.0	61.8
011	21009	1778	33800	3062	93027	80238	59.3	60.6
012	18392	1431	26327	2218	85601	77668	58.4	59.6
013	21364	1740	42878	3890	102107	80591	58.5	59.2
014	34191	3021	32115	2811	91385	93460	59.0	59.2
015	27630	2352	40361	3640	99589	86858	59.6	59.2
016	43035	4020	43978	4108	103246	102302	61.5	61.3

BS stadia distance: 476.0 meters Low scale el. diff.: -13.24375 meters
FS stadia distance: 476.1 meters High scale el. diff.: -13.24405 meters
Length of section: .952 kilometers Mean elevation diff.: -13.24390 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 78 TJS (0199) To: 79 TJS (0200)

Date: 03/09/93 Begin: 07:32 End: 08:54 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460673 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Partly cloudy (25%-75% clouds) Wind from the: South at <10 km/hr

Collimation check(s):
Time: 07:32 BSCWL= 41062 STADIA= 3878 FSCWL= 41050 C= .01316

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	41062	3878	18783	1650	78010	100288	50.0	49.8
002	44613	4193	25331	2262	84611	103891	50.8	51.0
003	46823	4419	10539	1322	69768	106051	52.5	52.6
004	53686	5050	13440	1019	72721	112963	52.7	52.6
005	48970	4670	20943	1877	80176	108203	53.2	53.4
006	46500	4438	21568	1936	80835	105767	54.3	53.9
007	50027	4792	17613	1559	76850	109261	54.6	54.7
008	45792	4357	24505	2238	83772	105059	55.0	55.3
009	53263	5112	15541	1343	74776	112497	56.3	56.5
010	45937	4388	16045	1390	75310	105203	57.2	57.5
011	46401	4427	17049	1492	76283	105634	57.9	58.8
012	42871	4069	13467	1122	72736	102139	59.0	60.3
013	42681	4057	22709	2073	81946	101916	59.0	60.8
014	53641	5143	21362	1917	80627	112906	59.2	60.8
015	52217	4998	20304	1808	79539	111448	60.4	61.6
016	51495	4927	19875	1755	79142	110763	60.8	61.8
017	51950	4979	20069	1795	79303	111183	61.2	61.5
018	49760	4767	17450	1543	76716	109027	60.2	61.8
019	44526	4243	23767	2162	83003	103760	61.0	62.0
020	52851	5067	18220	1608	77485	112115	61.4	61.6
021	49438	4728	15892	1362	75130	108675	61.0	61.9
022	33757	3189	28635	2683	87900	93021	52.3	62.2
023	38952	3732	25151	2353	84390	98190	61.4	61.9
024	35941	3526	30441	2971	89698	95197	61.0	61.6

BS stadia distance: 505.1 meters Low scale el. diff.: 32.22275 meters
FS stadia distance: 506.4 meters High scale el. diff.: 32.22150 meters
Length of section: 1.012 kilometers Mean elevation diff.: 32.22212 meters

*** This data was collected according to 1st order. Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 79 TJS (0200) To: 78 TJS (0199)

Date: 03/17/93 Begin: 10:03 End: 11:32 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: South at 10-25 km/hr

Collimation check(s):
Time: 07:29 BSCWL= 12685 STADIA= 1067 FSCWL= 12679 C= .00746

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	30418	2800	30537	2794	89783	89666	63.4	64.7
002	22615	2073	44618	4268	103872	81865	65.1	65.7
003	16073	1391	46237	4418	105485	75322	65.0	65.9
004	13488	1103	46214	4392	105465	72739	65.2	65.7
005	13182	1068	47231	4486	106478	72428	65.5	66.0
006	14032	1161	47846	4543	107100	73288	66.2	66.8
007	13472	1105	47520	4512	106766	72717	66.3	67.0
008	13122	1061	49234	4658	108487	72374	66.5	67.1
009	14158	1169	49242	4690	108492	73408	66.3	67.2
010	14362	1190	47431	4500	106681	73615	66.3	66.4
011	12444	1509	50728	4800	109973	71690	66.0	66.1
012	13422	1072	50045	4725	109300	72674	67.0	66.6
013	13376	1082	51637	4912	110884	72625	66.3	66.0
014	16535	1396	47597	4490	106851	75788	66.0	66.5
015	14073	1154	46459	4392	105708	73320	66.8	67.1
016	11910	1448	49606	4707	108864	71168	68.0	68.2
017	17445	1509	49562	4730	108807	76689	67.6	67.5
018	22647	2027	51659	4918	110913	81901	68.0	68.0
019	14989	1258	46496	4417	105744	74233	69.4	70.2
020	26187	2348	49641	4689	108895	85444	67.8	70.8
021	25329	2376	40478	3879	99724	84576	70.1	71.4
022	27927	2678	35621	3458	94874	87181	68.1	69.3

BS stadia distance: 508.6 meters Low scale el. diff.: -32.22165 meters
FS stadia distance: 509.2 meters High scale el. diff.: -32.22175 meters
Length of section: 1.018 kilometers Mean elevation diff.: -32.22170 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 79 TJS (0200) To: 24 A HN (0201)

Date: 03/09/93 Begin: 09:41 End: 11:24 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460673 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Partly cloudy (25%-75% clouds) Wind from the: East at <10 km/hr

Collimation check(s):
Time: 07:32 BSOWL= 41062 STADIA= 3878 FSOWL= 41050 C= .01316

SETUP	BSOWL	BSSTAD	FSOWL	FSSTAD	FSOWH	BSOWH	UTEMP	LTEMP
001	44864	4287	15679	1385	74917	104102	62.6	63.2
002	52955	5096	20508	1850	79770	112216	61.8	63.5
003	51973	4972	21434	1912	80675	111213	61.2	62.8
004	51222	4902	13940	1183	73200	110482	62.0	63.2
005	43951	4179	17009	1482	76248	103192	63.0	64.6
006	42138	4000	29462	2729	88723	101400	63.1	64.5
007	51160	4897	16858	1469	76099	110400	64.2	66.2
008	41101	3910	19883	1760	79145	100364	64.5	66.1
009	43294	4103	20001	1790	79243	102533	64.0	66.2
010	41214	3898	26562	2417	85826	100479	65.0	65.7
011	52703	5068	29057	2701	88297	111940	64.4	66.3
012	49194	4702	35063	3298	94326	108457	65.5	67.0
013	56478	5432	28186	2591	87427	115716	65.2	67.0
014	52788	5064	20112	1805	79375	112051	64.7	65.6
015	43167	4098	21200	1916	80442	102407	65.4	66.9
016	50830	4868	13789	1152	73049	110087	65.0	66.2
017	51056	4868	14881	1243	74120	110295	65.0	66.3
018	55430	5320	12088	1415	71345	114690	64.8	65.9
019	47502	4551	18970	1689	78210	106745	65.8	66.9
020	54186	5208	13411	1141	72670	113445	65.7	65.8
021	49629	4759	10686	1257	69929	108870	65.6	67.1
022	50485	4850	17399	1541	76657	109744	65.2	65.6
023	52653	5065	12977	1094	72221	111897	67.4	68.1
024	45886	4389	13571	1163	72830	105144	66.8	67.1
025	46188	4419	14757	1273	73999	105431	65.6	66.3
026	44115	4212	14709	1270	73967	103374	65.8	66.4
027	41766	3979	14037	1215	73281	101010	65.6	67.6
028	41107	3933	32603	3083	91859	100363	65.6	66.7
029	54214	5286	14392	1299	73638	113458	66.7	71.4
030	47009	4653	15463	1501	74716	106262	67.5	71.9

BS stadia distance: 591.2 meters Low scale el. diff.: 44.07855 meters
FS stadia distance: 589.0 meters High scale el. diff.: 44:07815 meters
Length of section: 1.180 kilometers Mean elevation diff.: 44.07835 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 24 A HN (0201) To: 79 TJS (0200)

Date: 03/17/93 Begin: 07:29 End: 09:15 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Partly cloudy (25%-75% clouds) Wind from the: South at 10-25 km/hr

Collimation check(s):
Time: 07:29 BSCWL= 12685 STADIA= 1067 FSCWL= 12679 C= .00746

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	13499	1297	45129	4470	104378	72747	55.6	55.0
002	24331	2311	42274	4096	101527	83585	55.4	54.1
003	16033	1403	44979	4292	104221	75277	56.0	55.4
004	15318	1330	42507	4047	101763	74574	56.2	55.2
005	14728	1260	45828	4368	105073	73971	56.1	55.2
006	12936	1061	51715	4943	110972	72192	56.4	55.6
007	13551	1132	48438	4628	107681	72793	56.6	56.1
008	11480	1358	52758	5053	112014	70737	57.0	56.6
009	11361	1324	50960	4891	110204	70603	57.8	57.3
010	12730	1083	46663	4472	105918	71985	58.0	58.0
011	14956	1317	45951	4417	105198	74201	58.3	58.5
012	14582	1257	47551	4558	106807	73838	58.5	58.8
013	12993	1085	48388	4622	107631	72238	59.2	59.6
014	12758	1053	51676	4949	110931	72013	59.8	60.4
015	13520	1113	48844	4639	108087	72763	60.2	61.4
016	16663	1420	45535	4308	104791	75918	60.7	62.0
017	15899	1311	45015	4236	104258	75144	60.8	61.6
018	13917	1093	46195	4309	105455	73177	60.2	60.6
019	17017	1401	49543	4655	108784	76260	60.7	61.2
020	16059	1299	47564	4437	106823	75319	61.0	62.0
021	14774	1162	47871	4482	107113	74014	62.0	62.6
022	14730	1172	48520	4542	107781	73990	62.3	63.1
023	16605	1390	49618	4699	108859	75846	62.4	62.6
024	11707	1446	50775	4794	110031	70965	62.6	63.1
025	14652	1219	49324	4687	108574	73902	62.4	63.0
026	12144	1441	55487	5299	114742	71394	62.0	62.8
027	28026	2728	36575	3589	95823	87275	62.4	62.7
028	27756	2704	30603	2988	89855	87006	63.5	63.5

BS stadia distance: 600.8 meters Low scale el. diff.: -44.07805 meters
FS stadia distance: 602.0 meters High scale el. diff.: -44.07835 meters
Length of section: 1.203 kilometers Mean elevation diff.: -44.07820 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 24 A HN (0201) To: 80 TJS (0202)

Date: 03/09/93 Begin: 12:39 End: 13:52 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460673 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Overcast (>75% clouds) Wind from the: South at <10 km/hr

Collimation check(s):
Time: 07:32 BSCWL= 41062 STADIA= 3878 FSCWL= 41050 C= .01316

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	15465	1501	47011	4653	106259	74712	67.8	71.2
002	27193	2583	26089	2466	85344	86449	67.6	68.9
003	55316	5341	18873	1701	78117	114562	68.6	69.8
004	54389	5220	12992	1079	72251	113645	67.9	69.1
005	47174	4519	14121	1223	73365	106419	67.6	69.6
006	49903	4793	12382	1031	71637	109157	66.7	68.3
007	46101	4419	13770	1176	73020	105347	66.5	67.2
008	51871	4992	13715	1188	72968	111126	65.7	66.7
009	54228	5238	10731	1257	69978	113473	67.2	68.3
010	53040	5137	14020	1243	73273	112294	66.1	67.2
011	48104	4637	17760	1597	77006	107350	66.2	67.0
012	53673	5186	14787	1309	74042	112928	67.0	66.8
013	50225	4838	12864	1100	72107	109470	66.1	66.7
014	49805	4800	13788	1199	73041	109060	65.7	66.3
015	47991	4608	12638	1078	71887	107238	65.9	65.2
016	47566	4559	12933	1106	72189	106822	65.4	65.4
017	44528	4248	12746	1053	71992	103771	65.4	65.6
018	49870	4814	11623	1322	70877	109126	64.9	66.0
019	40855	3948	26874	2533	86120	100100	65.2	65.4
020	37477	3561	26125	2423	85383	96733	64.8	66.1
021	45346	4417	25930	2472	85177	104592	64.6	65.6
022	39278	3847	27512	2677	86764	98531	64.4	65.6

BS stadia distance: 362.4 meters Low scale el. diff.: 30.50570 meters
FS stadia distance: 363.2 meters High scale el. diff.: 30.50540 meters
Length of section: .726 kilometers Mean elevation diff.: 30.50555 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 80 TJS (0202) To: 24 A HN (0201)

Date: 03/16/93 Begin: 14:49 End: 15:54 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: North at <10 km/hr

Collimation check(s):
Time: 07:34 BSCWL= 31186 STADIA= 2883 FSCWL= 31188 C= -.00213

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	20189	1866	44162	4271	103407	79434	71.7	74.0
002	12297	1057	50937	4923	110195	71552	69.8	72.6
003	16930	1538	30978	2929	90221	76173	72.0	74.4
004	34278	3232	44413	4247	103672	93536	72.3	74.2
005	10503	1250	45130	4315	104371	69743	71.8	72.9
006	14918	1313	47576	4578	106832	74175	71.7	73.6
007	11530	1343	49576	4755	108820	70773	70.3	72.6
008	11532	1348	51221	4917	110480	70790	71.3	73.3
009	14383	1257	49014	4732	108260	73624	71.7	72.9
010	11986	1000	50984	4902	110244	71246	71.0	74.3
011	14176	1238	48384	4658	107625	73415	71.9	74.5
012	12838	1121	50156	4857	109413	72095	70.6	72.2
013	13241	1165	47897	4634	107140	72482	71.1	73.4
014	11824	1022	46859	4526	106116	71080	70.5	72.9
015	15487	1359	48755	4684	107998	74725	70.4	72.6
016	13822	1208	46151	4437	105407	73077	70.3	72.6
017	13527	1161	48623	4653	107868	72770	69.8	71.8
018	12036	1403	46991	4486	106249	71296	69.6	70.9
019	11555	1401	32650	3021	91887	70793	71.5	73.0
020	36385	3488	43058	4169	102315	95641	73.4	74.9

BS stadia distance: 356.0 meters
FS stadia distance: 354.6 meters
Length of section: .711 kilometers

Low scale el. diff.: -30.50390 meters
High scale el. diff.: -30.50500 meters
Mean elevation diff.: -30.50445 meters

*** This data was collected according to 1st order. Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 80 TJS (0202) To: 23 A HN (0203)

Date: 03/09/93 Begin: 14:37 End: 15:50 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460673 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Overcast (>75% clouds) Wind from the: South at <10 km/hr

Collimation check(s):
Time: 07:32 BSCWL= 41062 STADIA= 3878 FSCWL= 41050 C= .01316

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	55409	5349	13653	1161	72897	114654	66.0	67.2
002	54833	5302	10469	1214	69724	114087	65.7	66.6
003	47517	4608	11946	1057	71193	106764	66.7	68.6
004	53234	5183	16442	1497	75697	112489	66.2	67.0
005	48015	4636	16712	1509	75959	107262	66.1	68.0
006	50340	4858	13952	1222	73208	109594	66.0	67.2
007	46950	4522	14518	1281	73762	106196	71.0	72.7
008	45215	4351	20694	1880	79950	104472	68.3	70.8
009	45084	4320	21588	1973	80836	104331	68.2	70.8
010	45603	4350	21365	1914	80617	104856	66.8	67.9
011	39067	3657	22221	1970	81467	98311	67.2	68.5
012	32667	2961	28617	2563	87876	91924	66.1	67.1
013	24810	2120	36224	3462	97470	84053	65.0	66.1
014	16045	1287	44619	4158	103873	75299	64.5	65.4
015	16179	1391	46098	4393	105345	75425	64.6	65.1
016	16181	1461	53489	5188	112743	75434	64.3	65.0
017	20111	1819	54941	5301	114187	79356	64.2	64.8
018	19090	1776	57366	5594	116622	78344	63.0	63.6
019	27499	2688	46587	4601	105835	86746	63.4	63.9
020	16850	1577	37017	3593	96269	76104	63.8	64.0

BS stadia distance: 376.4 meters Low scale el. diff.: 6.50905 meters
FS stadia distance: 376.1 meters High scale el. diff.: 6.50855 meters
Length of section: .752 kilometers Mean elevation diff.: 6.50880 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 23 A HN (0203) To: 80 TJS (0202)

Date: 03/16/93 Begin: 13:02 End: 14:12 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: North at <10 km/hr

Collimation check(s):
Time: 07:34 BSCWL= 31186 STADIA= 2883 FSCWL= 31188 C= -.00213

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	43552	4243	17845	1670	77091	102798	67.6	70.0
002	44664	4338	10312	1147	69568	103920	69.0	71.1
003	55525	5472	23387	2247	82633	114771	70.0	71.8
004	47038	4527	15833	1415	75039	106295	67.8	69.2
005	55714	5403	31244	2948	90486	114954	71.5	72.5
006	43903	4199	18390	1633	77649	103161	70.1	71.0
007	41400	3933	18098	1587	77338	100641	71.7	72.4
008	40217	3817	24973	2289	84235	99479	71.4	72.0
009	34998	3286	27640	2560	86883	94242	68.3	70.7
010	32883	3045	32496	3009	91756	92142	67.6	69.4
011	28991	2647	37242	3468	96481	88228	67.5	69.6
012	22589	2011	42652	4027	101910	81851	68.1	71.2
013	17822	1527	44663	4219	103903	77060	68.6	70.7
014	15350	1318	49186	4697	108447	74607	68.3	70.1
015	13426	1143	51547	4951	110788	72670	70.5	71.0
016	12438	1048	51429	4944	110689	71696	68.3	71.2
017	13243	1141	48825	4703	108066	72485	71.4	71.5
018	14233	1237	47902	4607	107162	73493	69.6	72.2
019	12730	1161	45749	4474	104995	71975	68.5	71.6
020	11459	1013	49494	4811	108751	70716	68.5	71.1
021	23730	2261	44346	4319	103590	82975	69.8	72.3
022	22747	2191	45558	4453	104814	82001	69.0	71.2

BS stadia distance: 380.9 meters Low scale el. diff.: -6.50795 meters
FS stadia distance: 381.6 meters High scale el. diff.: -6.50820 meters
Length of section: .763 kilometers Mean elevation diff.: -6.50808 meters

*** This data was collected according to 1st order. Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 23 A HN (0203) To: 81 TJS (0204)

Date: 03/10/93 Begin: 10:29 End: 11:36 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460673 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: South at <10 km/hr

Collimation check(s):
Time: 07:44 BSCWL= 18907 STADIA= 1683 FSCWL= 18900 C= .00845

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	59632	5849	25730	2461	84975	118877	63.6	67.5
002	46925	4532	23776	2201	83032	106182	63.5	65.2
003	25720	2457	37454	3637	96701	84964	64.2	66.9
004	12899	1109	44130	4245	103387	72156	63.6	65.4
005	11535	1317	45163	4347	104407	70777	64.5	67.0
006	16030	1424	45050	4322	104306	75286	64.1	67.3
007	12532	1051	47698	4569	106942	71774	65.0	70.0
008	13739	1208	43317	4179	102574	72993	66.2	70.4
009	16965	1527	46275	4459	105518	76211	65.3	69.4
010	13852	1233	44526	4291	103781	73108	64.8	69.3
011	16634	1499	45893	4417	105141	75879	62.8	67.0
012	13660	1197	47569	4590	106825	72917	63.4	67.2
013	15249	1357	56193	5443	115439	74495	65.9	68.5
014	11229	1249	50713	4941	109969	70482	65.2	69.3
015	16362	1500	48759	4745	108006	75608	66.8	71.9
016	19293	1822	46269	4507	105524	78545	65.3	68.8

BS stadia distance: 241.1 meters Low scale el. diff.: -18.81295 meters
FS stadia distance: 240.6 meters High scale el. diff.: -18.81360 meters
Length of section: .482 kilometers Mean elevation diff.: -18.81328 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 81 TJS (0204) To: 23 A HN (0203)

Date: 03/16/93 Begin: 11:04 End: 11:58 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: South at <10 km/hr

Collimation check(s):
Time: 07:34 BSCWL= 31186 STADIA= 2883 FSCWL= 31188 C= -.00213

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	48594	4703	13000	1141	72245	107839	67.4	70.4
002	48325	4669	11575	1303	70828	107582	68.7	69.7
003	54730	5322	16852	1542	76095	113975	67.6	70.7
004	50766	4904	16133	1443	75390	110021	67.4	70.3
005	48926	4723	15871	1418	75112	108170	66.2	70.4
006	46861	4507	14386	1253	73641	106118	67.2	71.8
007	49833	4803	15215	1339	74459	109078	66.5	71.4
008	48928	4712	16376	1460	75632	108183	67.5	72.1
009	46556	4487	15903	1418	75148	105800	67.7	70.8
010	47145	4538	15831	1407	75086	106402	69.2	72.7
011	46746	4503	16319	1457	75561	105990	68.2	70.2
012	51150	4929	13520	1168	72781	110410	68.5	71.7
013	45420	4361	10226	1210	69471	104660	68.4	71.2
014	45111	4343	50158	4838	109416	104367	68.8	72.6
015	13254	1233	48983	4796	108230	72500	70.0	72.7
016	17826	1670	43549	4244	102803	77081	68.2	71.5

BS stadia distance: 254.3 meters Low scale el. diff.: 18.81370 meters
FS stadia distance: 256.9 meters High scale el. diff.: 18.81390 meters
Length of section: .511 kilometers Mean elevation diff.: 18.81380 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 81 TJS (0204) To: 22 A HN (0205)

Date: 03/10/93 Begin: 12:44 End: 13:40 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460673 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: South at <10 km/hr

Collimation check(s):
Time: 07:44 BSCWL= 18907 STADIA= 1683 FSCWL= 18900 C= .00845

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	28606	2682	35766	3387	95009	87850	70.0	70.9
002	26829	2493	27525	2558	86781	86085	68.4	71.2
003	15452	1365	50710	4887	109957	74699	67.5	69.7
004	14796	1298	50929	4913	110183	74051	68.2	68.7
005	14574	1283	47798	4612	107044	73821	68.5	68.6
006	10945	1268	49852	4812	109104	70200	67.1	67.8
007	10937	1261	54314	5268	113562	70184	69.6	70.2
008	10490	1177	47502	4614	106753	69746	70.2	69.8
009	14386	1253	52457	5074	111705	73632	69.2	70.0
010	20396	1853	43198	4131	102452	79650	68.0	69.0
011	13219	1160	49558	4775	108806	72465	69.2	70.0
012	11360	1308	46532	4479	105785	70616	68.5	70.3
013	13392	1130	54180	5222	113430	72638	66.3	70.6
014	10785	1203	46894	4535	106150	70038	67.3	72.1
015	18839	1772	42711	4155	101959	78085	68.6	72.1
016	23928	2332	35950	3537	95203	83180	69.0	71.0

BS stadia distance: 255.6 meters
FS stadia distance: 255.1 meters
Length of section: .511 kilometers

Low scale el. diff.: -23.84710 meters
High scale el. diff.: -23.84715 meters
Mean elevation diff.: -23.84713 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 22 A HN (0205) To: 81 TJS (0204)

Date: 03/16/93 Begin: 09:22 End: 10:14 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: South at <10 km/hr

Collimation check(s):
Time: 07:34 BSCWL= 31186 STADIA= 2883 FSCWL= 31188 C= -.00213

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	47269	4548	10090	1178	69337	106517	63.8	67.3
002	53578	5161	13608	1151	72863	112830	62.8	64.9
003	55672	5392	12486	1078	71731	114916	65.0	67.3
004	47737	4603	16468	1479	75723	106994	64.1	65.8
005	48449	4669	14142	1242	73388	107695	63.8	65.5
006	50014	4829	13905	1223	73161	109271	64.2	65.3
007	49918	4817	13183	1137	72429	109162	64.4	65.9
008	50118	4839	12237	1043	71493	109374	64.4	66.1
009	48728	4696	12563	1089	71811	107973	65.7	68.6
010	49054	4732	12317	1056	71573	108308	65.0	65.6
011	48580	4689	14651	1304	73898	107826	66.0	67.5
012	48782	4711	37251	3567	96505	108037	63.7	64.9
013	32260	3079	18317	1693	77564	91507	65.6	68.0
014	45345	4371	18869	1703	78122	104601	63.0	68.5
015	36576	3552	24055	2310	83304	95825	64.5	68.0
016	32883	3192	23804	2286	83056	92135	64.5	67.7

BS stadia distance: 253.0 meters Low scale el. diff.: 23.85085 meters
FS stadia distance: 253.7 meters High scale el. diff.: 23.85065 meters
Length of section: .507 kilometers Mean elevation diff.: 23.85075 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 81 TJS (0204) To: 22 A HN (0205)

Date: 03/17/93 Begin: 13:00 End: 13:53 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: South at 10-25 km/hr

Collimation check(s):
Time: 07:29 BSCWL= 12685 STADIA= 1067 FSCWL= 12679 C= .00746

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	31876	2963	26948	2472	86196	91124	69.7	73.2
002	26292	2473	45000	4354	104254	85546	70.6	74.2
003	25524	2385	46482	4479	105730	84770	69.7	71.7
004	12255	1044	49592	4768	103845	71507	68.6	70.3
005	12050	1029	48683	4692	107931	71298	70.0	70.8
006	11688	1336	48235	4652	107489	70945	68.8	70.4
007	12249	1068	46401	4481	105647	71493	68.7	70.8
008	11632	1000	49530	4789	108784	70886	69.9	71.7
009	14515	1289	45925	4428	105171	73762	68.7	70.0
010	12507	1082	49054	4734	108310	71762	69.0	70.2
011	14688	1295	48030	4632	107278	73936	68.5	70.2
012	14877	1301	49558	4768	108813	74133	69.0	69.6
013	12597	1068	51667	4988	110913	71842	70.3	71.8
014	13828	1231	48285	4663	107541	73083	70.2	72.1
015	18401	1719	44644	4342	103891	77648	71.8	73.2
016	17865	1670	41833	4069	101086	77118	72.5	73.3

BS stadia distance: 259.9 meters Low scale el. diff.: -23.85115 meters
FS stadia distance: 259.9 meters High scale el. diff.: -23.85130 meters
Length of section: .520 kilometers Mean elevation diff.: -23.85123 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 22 A HN (0205) To: 82 TJS (0206)

Date: 03/10/93 Begin: 14:27 End: 15:37 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460673 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: South at <10 km/hr

Collimation check(s):
Time: 07:44 BSCWL= 18907 STADIA= 1683 FSCWL= 18900 C= .00845

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	24805	2299	40384	3856	99633	84052	70.6	74.1
002	16084	1423	40055	3826	99309	75337	70.3	73.2
003	24500	2265	48205	4650	107453	83746	68.1	71.1
004	14412	1251	51056	4909	110309	73667	69.3	71.8
005	18163	1630	48047	4630	107294	77409	69.6	70.8
006	17458	1583	47886	4612	107141	76714	69.6	72.0
007	15696	1388	46906	4509	106154	74943	70.0	71.5
008	16165	1443	48218	4646	107472	75420	69.7	70.8
009	14684	1270	50045	4810	109292	73932	69.6	71.2
010	14106	1223	46233	4434	105487	73362	69.9	73.2
011	12934	1102	49682	4756	108928	72180	69.4	71.2
012	11997	1388	49880	4777	109137	71252	69.7	71.6
013	13903	1181	49069	4701	108318	73149	68.7	71.1
014	12875	1071	50928	4883	110180	72128	70.2	71.5
015	10189	1238	54993	5263	114245	69441	69.1	71.0
016	17061	1488	54540	5232	113794	76310	69.6	69.5
017	13937	1168	51052	4876	110299	73181	69.4	70.0
018	14572	1194	46226	4350	105480	73830	70.8	71.1
019	14892	1280	33114	3115	92359	74139	69.8	69.7
020	24584	2333	38986	3792	98240	83839	69.6	69.0

BS stadia distance: 382.4 meters Low scale el. diff.: -31.12440 meters
FS stadia distance: 382.3 meters High scale el. diff.: -31.12465 meters
Length of section: .765 kilometers Mean elevation diff.: -31.12453 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 82 TJS (0206) To: 22 A HN (0205)

Date: 03/16/93 Begin: 07:35 End: 08:41 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: South at <10 km/hr

Collimation check(s):
Time: 07:34 BSCWL= 31186 STADIA= 2883 FSCWL= 31188 C= -.00213

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	31187	2883	21436	1908	80687	90440	53.1	55.0
002	47861	4562	20805	1849	80055	107110	51.8	54.8
003	50172	4812	14099	1205	73351	109422	55.2	56.7
004	51879	4974	16594	1451	75845	111131	55.6	56.5
005	52180	5009	13733	1163	72984	111430	56.4	56.0
006	50215	4811	11711	1377	70960	109464	56.8	57.1
007	50674	4848	12894	1077	72146	109925	57.4	57.7
008	49127	4708	13595	1151	72843	108375	56.6	58.2
009	50134	4802	11390	1334	70639	109387	58.3	59.2
010	49325	4738	13153	1117	72401	108572	57.4	60.4
011	46690	4469	12061	1006	71314	105941	57.2	59.2
012	49091	4708	14586	1259	73835	108341	58.5	59.6
013	49724	4775	14507	1253	73759	108975	58.6	60.0
014	49475	4739	11417	1343	70667	108726	60.0	61.6
015	49007	4712	12460	1056	71708	108257	61.0	62.3
016	49627	4767	10260	1212	69511	108881	60.8	62.1
017	48052	4618	20672	1883	79920	107300	62.8	63.5
018	37821	3583	20652	1877	79904	97075	62.8	63.4
019	37820	3647	25221	2375	84470	97070	65.0	64.8
020	37408	3637	23709	2266	82962	96660	63.6	64.7

BS stadia distance: 384.8 meters Low scale el. diff.: 31.12570 meters
FS stadia distance: 384.0 meters High scale el. diff.: 31.12605 meters
Length of section: .769 kilometers Mean elevation diff.: 31.12588 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 82 TJS (0206) To: 21 A HN (0207)

Date: 03/11/93 Begin: 07:37 End: 08:43 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460673 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: North at 10-25 km/hr

Collimation check(s):
Time: 07:37 BSCWL= 15936 STADIA= 1405 FSCWL= 15926 C= .01330

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	15935	1406	42186	4018	101423	75172	57.8	58.4
002	17129	1547	54486	5270	113750	76389	58.2	59.2
003	15803	1370	47538	4541	106776	75039	58.2	59.2
004	13788	1163	46981	4482	106245	73053	57.4	58.9
005	16081	1401	44104	4221	103342	75319	57.9	59.3
006	15782	1372	50401	4833	109665	75048	58.0	60.0
007	12930	1077	46868	4477	106108	72168	58.1	60.1
008	17073	1918	45891	4368	105154	76338	57.5	60.0
009	15582	1346	46088	4392	105328	74818	57.6	59.3
010	17651	1552	48632	4642	107894	76913	57.8	59.8
011	14993	1252	48303	4594	107540	74228	57.9	60.0
012	16801	1441	45264	4288	104528	76065	57.6	60.2
013	17777	1523	48464	4597	107700	77014	58.0	59.8
014	14734	1222	47692	4522	106954	73998	58.6	60.2
015	12780	1526	48247	4558	107484	72018	57.8	59.4
016	20792	1850	47368	4502	106632	80056	57.8	60.0
017	23311	2163	39770	3800	99011	82551	58.8	60.4
018	27823	2708	34098	3338	93354	87079	58.3	60.4

BS stadia distance: 369.1 meters Low scale el. diff.: -26.28080 meters
FS stadia distance: 368.7 meters High scale el. diff.: -26.28110 meters
Length of section: .738 kilometers Mean elevation diff.: -26.28095 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 21 A HN (0207) To: 82 TJS (0206)

Date: 03/15/93 Begin: 15:45 End: 16:35 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Overcast (>75% clouds) Wind from the: South at 10-25 km/hr

Collimation check(s):
Time: 07:42 BSCWL= 33805 STADIA= 3109 FSCWL= 33799 C= .00554

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	40806	3847	21100	1880	80340	100045	63.0	63.6
002	44007	4170	16413	1392	75673	103268	63.3	63.7
003	47229	4470	15131	1271	74369	106466	63.2	63.5
004	51333	4841	10269	1329	69534	110597	63.0	63.5
005	48145	4572	16873	1447	76111	107383	63.2	63.6
006	48578	4608	16353	1395	75613	107840	63.0	63.4
007	50476	4778	14134	1148	73371	109712	62.7	63.2
008	48811	4626	17027	1462	76288	108075	62.4	62.7
009	57437	5472	19277	1648	78508	116672	62.4	62.8
010	54886	5268	12930	1077	72193	114149	62.2	62.4
011	48796	4632	12318	1470	71554	108032	61.8	62.0
012	50836	4835	12257	1466	71519	110100	61.6	61.7
013	48175	4588	14357	1200	73595	107410	61.4	61.6
014	48799	4652	10294	1230	69556	108060	61.4	61.1
015	44955	4290	15661	1365	74900	104195	61.4	61.2
016	40838	3987	24101	2314	83358	100093	61.3	61.0

BS stadia distance: 369.4 meters Low scale el. diff.: 26.28060 meters
FS stadia distance: 369.6 meters High scale el. diff.: 26.28075 meters
Length of section: .739 kilometers Mean elevation diff.: 26.28068 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 21 A HN (0207) To: 83 TJS (0208)

Date: 03/11/93 Begin: 09:22 End: 10:43 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460673 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: North at 10-25 km/hr

Collimation check(s):
Time: 07:37 BSCWL= 15936 STADIA= 1405 FSCWL= 15926 C= .01330

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	14377	1246	36154	3421	95393	73615	61.4	61.6
002	28701	2631	47261	4480	106521	87963	59.9	61.9
003	23459	2102	44221	4179	103457	82696	60.5	61.2
004	12482	1512	45982	4311	105249	71745	59.1	60.2
005	18588	1591	47033	4442	106272	77823	58.8	60.1
006	17325	1452	47409	4468	106675	76587	59.1	61.9
007	16251	1342	45003	4221	104239	75487	59.2	61.0
008	17136	1433	48448	4570	107711	76401	60.4	60.4
009	14138	1120	45894	4298	105130	73373	59.6	61.4
010	15551	1280	46376	4353	105643	74814	59.2	60.6
011	18429	1583	44962	4238	104203	77669	60.2	61.7
012	17444	1463	38014	3521	97279	76710	60.3	61.8
013	32072	2951	27996	2543	87237	91309	61.4	62.6
014	34445	3180	26677	2398	85937	93710	62.0	63.0
015	32750	2996	32540	2978	91780	91988	60.7	61.0
016	27268	2464	39759	3719	99023	86528	62.4	64.3
017	29221	2643	36790	3391	96027	88460	63.4	63.8
018	36960	3468	33481	3112	92741	96223	62.1	64.0
019	34306	3353	34061	3333	93308	93552	62.7	65.0
020	30604	3022	33581	3303	92835	89858	61.8	63.5

BS stadia distance: 477.2 meters Low scale el. diff.: -16.50675 meters
FS stadia distance: 477.1 meters High scale el. diff.: -16.50745 meters
Length of section: .954 kilometers Mean elevation diff.: -16.50710 meters

*** This data was collected according to 1st order. Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 83 TJS (0208) To: 21 A HN (0207)

Date: 03/15/93 Begin: 14:10 End: 15:13 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Overcast (>75% clouds) Wind from the: South at 10-25 km/hr

Collimation check(s):
Time: 07:42 BSCWL= 33805 STADIA= 3109 FSCWL= 33799 C= .00554

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	22994	1970	26951	2363	86193	82235	64.8	66.1
002	38082	3471	24467	2118	83728	97345	66.7	67.5
003	37750	3422	28142	2462	87376	96984	66.9	67.2
004	31684	2809	36291	3262	95558	90954	65.6	65.4
005	25156	2158	32616	2917	91850	84389	67.6	67.9
006	40097	3620	10137	1400	69411	99368	66.7	66.4
007	50043	4650	14869	1140	74110	109283	65.6	66.2
008	51191	4780	12092	1529	71356	110454	66.4	66.7
009	50465	4732	15507	1240	74743	109699	64.8	65.3
010	46791	4353	14026	1090	73290	106054	64.8	65.0
011	48745	4568	14709	1155	73944	107982	64.2	65.0
012	49224	4603	14459	1117	73723	108490	64.6	65.5
013	49452	4657	13376	1048	72612	108688	64.7	65.8
014	34397	3197	25356	2310	84617	93656	64.3	65.4
015	25718	2422	10697	1199	69941	84962	64.6	65.4
016	44593	4348	22551	2133	81806	103850	64.4	64.9

BS stadia distance: 477.0 meters Low scale el. diff.: 16.50680 meters
FS stadia distance: 477.3 meters High scale el. diff.: 16.50675 meters
Length of section: .954 kilometers Mean elevation diff.: 16.50678 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 83 TJS (0208) To: 20 A HN (0209)

Date: 03/15/93 Begin: 07:42 End: 08:53 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: South at 10-25 km/hr

Collimation check(s):
Time: 07:42 BSOWL= 33805 STADIA= 3109 FSOWL= 33799 C= .00554

SETUP	BSOWL	BSSTAD	FSOWL	FSSTAD	FSOWH	BSOWH	UTEMP	LTEMP
001	33806	3109	44604	4194	103849	93048	55.4	55.8
002	24116	2082	35880	3260	95138	83370	55.9	56.0
003	24451	2117	35362	3203	94604	83695	54.5	55.4
004	23396	1992	36437	3293	95697	82659	54.2	55.1
005	23808	2042	36010	3270	95253	83051	54.4	55.2
006	25523	2219	36505	3320	95763	84785	54.4	55.4
007	23316	2008	35888	3251	95130	82559	54.7	55.3
008	24104	2093	36007	3284	95267	83364	54.8	55.8
009	23771	2027	36681	3321	95924	83009	55.2	55.6
010	22456	1912	34585	3128	93847	81713	55.8	56.8
011	25483	2198	35733	3219	94976	84721	56.0	57.3
012	27693	2422	30681	2722	89945	86958	55.6	57.8
013	28337	2501	34312	3103	93552	87576	55.9	56.2
014	26859	2337	40978	3760	100239	86124	55.4	55.6
015	20273	1700	38228	3498	97468	79514	57.2	57.9
016	21853	1843	40408	3697	99669	81115	56.7	57.2
017	21875	1860	37956	3479	97198	81115	57.1	56.9
018	29597	2753	45477	4328	104735	88856	58.1	60.4

BS stadia distance: 576.5 meters Low scale el. diff.: -11.05075 meters
FS stadia distance: 576.0 meters High scale el. diff.: -11.05110 meters
Length of section: 1.153 kilometers Mean elevation diff.: -11.05093 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 20 A HN (0209) To: 83 TJS (0208)

Date: 03/15/93 Begin: 11:56 End: 13:17 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Overcast (>75% clouds) Wind from the: South at 10-25 km/hr

Collimation check(s):
Time: 07:42 BSCWL= 33805 STADIA= 3109 FSCWL= 33799 C= .00554

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	49393	4686	35145	3277	94387	108631	66.0	69.3
002	37446	3557	26689	2475	85948	96705	68.0	70.4
003	38845	3651	26970	2452	86210	98088	68.2	69.4
004	40202	3793	25310	2307	84570	99459	66.2	67.3
005	35351	3300	22426	2012	81671	94593	66.8	67.2
006	39667	3712	25560	2298	84813	98925	65.3	66.7
007	36015	3307	28492	2540	87732	95255	65.6	66.6
008	33185	3051	31439	2883	90699	92441	66.4	66.3
009	32524	2945	27100	2390	86338	91763	65.7	65.9
010	35003	3208	26745	2377	86007	94265	65.6	66.7
011	33638	3062	23217	2037	82456	92878	65.3	66.5
012	35425	3230	23367	2013	82626	94688	66.8	66.8
013	36080	3302	25320	2242	84558	95316	65.8	66.2
014	35016	3190	22464	1935	81721	94275	65.5	66.1
015	35525	3236	25219	2202	84458	94762	65.8	66.8
016	36211	3311	25388	2221	84648	95471	64.8	65.2
017	38279	3485	26374	2301	85611	97517	65.8	66.1
018	37477	3400	23715	2721	82978	96741	65.6	65.8
019	37638	3379	24098	2012	83332	96876	65.6	65.2
020	36241	3303	23104	1990	82364	95502	64.4	65.7

BS stadia distance: 572.2 meters Low scale el. diff.: 11.05095 meters
FS stadia distance: 573.7 meters High scale el. diff.: 11.05120 meters
Length of section: 1.146 kilometers Mean elevation diff.: 11.05108 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 20 A HN (0209) To: 84 TJS (0210)

Date: 03/15/93 Begin: 09:42 End: 10:44 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Partly cloudy (25%-75% clouds) Wind from the: South at 10-25 km/hr

Collimation check(s):
Time: 07:42 BSOWL= .33805 STADIA= 3109 FSOWL= 33799 C= .00554

SETUP	BSOWL	BSSTAD	FSOWL	FSSTAD	FSOWH	BSOWH	UTEMP	LTEMP
001	58661	5688	12903	1111	72147	117904	61.3	64.8
002	45329	4352	18588	1670	77843	104585	62.7	64.5
003	44885	4261	20988	1875	80232	104129	61.6	63.4
004	41612	3867	14153	1122	73413	100874	61.6	63.2
005	37428	3439	29214	2620	88458	96668	62.7	64.1
006	34631	3152	28465	2531	87725	93892	61.6	63.2
007	29392	2649	36051	3322	95293	88633	62.4	63.9
008	25720	2291	42100	3927	101358	84980	62.4	63.4
009	17164	1422	46985	4407	106226	76406	62.0	63.2
010	14543	1240	47550	4538	106804	73798	62.6	64.2
011	16509	1482	48951	4726	108198	75755	64.3	65.4
012	15336	1369	45560	4394	104816	74592	63.8	65.2
013	18285	1642	43861	4199	103106	77530	64.4	64.9
014	17279	1612	56450	5521	115703	76532	62.2	62.6
015	26452	2564	35956	3522	95203	85700	61.4	64.4
016	25827	2519	38583	3770	97836	85080	62.8	66.3

BS stadia distance: 328.1 meters Low scale el. diff.: -4.86525 meters
FS stadia distance: 329.5 meters High scale el. diff.: -4.86515 meters
Length of section: .658 kilometers Mean elevation diff.: -4.86520 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 84 TJS (0210) To: 20 A HN (0209)

Date: 03/29/93 Begin: 14:30 End: 15:18 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Partly cloudy (25%-75% clouds) Wind from the: South at 10-25 km/hr

Collimation check(s):
Time: 08:14 BSCWL= 39861 STADIA= 3641 FSCWL= 39871 C= -.00725

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	43732	4228	20256	1877	79502	102980	64.5	69.3
002	57641	5662	24091	2301	83342	116892	62.5	64.7
003	42664	4069	18709	1677	77956	101911	63.8	65.4
004	46531	4476	14705	1293	73258	105783	62.9	64.4
005	51062	4919	15848	1409	75095	110310	63.0	63.7
006	47762	4557	14002	1183	73255	107012	65.2	66.8
007	45362	4273	17379	1478	76628	104612	65.0	67.2
008	41243	3846	23226	2029	82480	100498	67.2	69.4
009	36658	3369	29017	2612	88263	95902	65.5	67.4
010	30007	2698	36441	3345	95694	89258	66.5	67.9
011	29376	2632	35752	3278	95001	88623	64.5	64.6
012	18621	1591	52656	4983	111907	77875	61.8	62.4
013	13032	1088	49519	4734	108770	72279	62.0	62.4
014	13481	1100	43527	4113	102780	72735	62.7	63.1
015	22454	2038	46138	4410	105387	81701	61.2	62.2
016	35186	3366	36230	3476	95482	94438	61.0	62.0

BS stadia distance: 348.8 meters
FS stadia distance: 349.2 meters
Length of section: .698 kilometers

Low scale el. diff.: 4.86580 meters
High scale el. diff.: 4.86545 meters
Mean elevation diff.: 4.86563 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 84 TJS (0210) To: 19 A HN (0211)

Date: 03/18/93 Begin: 07:39 End: 08:07 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: North at <10 km/hr

Collimation check(s):
Time: 07:38 BSCWL= 46686 STADIA= 4442 FSCWL= 46684 C= .00221

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	46684	4442	15228	1299	74481	105935	57.4	56.8
002	38689	3620	29910	2742	89160	97941	57.8	58.5
003	31749	2878	35007	3203	94256	90998	58.0	56.6
004	25257	2205	28916	2574	88167	84508	56.6	56.5
005	37071	3365	34775	3143	94022	96317	57.4	57.3
006	17299	1951	59146	5682	118395	76546	59.6	57.8
007	15029	1384	38532	3731	97785	74281	58.5	60.0
008	20742	1965	33855	3281	93106	79992	58.3	60.7

BS stadia distance: 185.2 meters Low scale el. diff.: -2.14245 meters
FS stadia distance: 185.5 meters High scale el. diff.: -2.14270 meters
Length of section: .371 kilometers Mean elevation diff.: -2.14258 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 19 A HN (0211) To: 84 TJS (0210)

Date: 03/29/93 Begin: 13:24 End: 13:55 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Partly cloudy (25%-75% clouds) Wind from the: North at <10 km/hr

Collimation check(s):
Time: 08:14 BSCWL= 39861 STADIA= 3641 FSCWL= 39871 C= -.00725

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	43497	4144	14120	1198	73369	102744	60.4	65.5
002	59472	5721	15444	1328	74698	118726	61.9	63.8
003	38784	3672	28774	2680	88022	98035	61.6	64.3
004	27518	2562	35821	3390	95073	86771	61.5	64.4
005	29758	2790	30641	2878	89887	89005	64.3	68.6
006	34457	3255	28610	2677	87864	93710	63.6	65.8
007	35196	3322	31287	2930	90531	94442	64.0	67.1
008	29155	2712	31257	2922	90511	88408	60.7	65.6
009	27149	2527	49119	4715	108368	86399	63.0	66.8
010	18189	1689	35264	3392	94515	77438	64.4	70.1

BS stadia distance: 185.6 meters Low scale el. diff.: 2.14190 meters
FS stadia distance: 188.0 meters High scale el. diff.: 2.14200 meters
Length of section: .374 kilometers Mean elevation diff.: 2.14195 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 19 A HN (0211) To: 85 TJS (0212)

Date: 03/18/93 Begin: 08:45 End: 09:41 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: North at <10 km/hr

Collimation check(s):
Time: 07:38 BSCWL= 46686 STADIA= 4442 FSCWL= 46684 C= .00221

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	34922	3272	19314	1727	78562	94169	64.0	66.0
002	41303	3853	34222	3150	93473	100557	64.4	65.2
003	41105	3839	26241	2343	85489	100354	64.0	64.7
004	31652	2873	32816	2992	92072	90906	64.0	62.9
005	29368	2657	33114	3034	92361	88614	63.4	63.3
006	26020	2311	38664	3569	97917	85270	62.8	63.4
007	22310	1938	41485	3830	100731	81557	63.4	61.7
008	23973	2118	39558	3676	98815	83231	61.8	61.8
009	23463	2062	41015	3833	100261	82706	62.7	63.4
010	24404	2162	35890	3291	95141	83657	64.8	64.2
011	29027	2669	25472	2310	84721	88275	63.4	64.0
012	36512	3420	23160	2081	82416	95767	62.1	62.9
013	43470	4072	26387	2356	85631	102714	67.0	65.8
014	36978	3508	33554	3163	92808	96234	62.8	62.9
015	32876	3153	37433	3620	96681	92124	63.5	64.3
016	31205	3041	35688	3496	94940	90457	64.4	67.2

BS stadia distance: 385.2 meters Low scale el. diff.: -.77125 meters
FS stadia distance: 384.9 meters High scale el. diff.: -.77135 meters
Length of section: .770 kilometers Mean elevation diff.: -.77130 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 85 TJS (0212) To: 19 A HN (0211)

Date: 03/29/93 Begin: 11:26 End: 12:32 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Partly cloudy (25%-75% clouds) Wind from the: North at <10 km/hr

Collimation check(s):
Time: 08:14 BSCWL= 39861 STADIA= 3641 FSCWL= 39871 C= -.00725

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	40973	3886	27952	2571	87199	100221	56.5	59.6
002	28863	2682	36743	3458	95994	88116	59.6	61.2
003	24698	2233	39022	3683	98271	83944	60.4	62.0
004	22824	2070	35793	3373	95042	82076	58.5	61.0
005	26727	2471	36046	3407	95294	85971	60.6	62.8
006	35817	3369	29310	2718	88563	95073	59.2	62.4
007	35507	3338	24670	2252	83916	94755	59.5	62.4
008	39156	3693	24703	2241	83959	98411	60.6	63.4
009	35856	3406	26480	2469	85728	95104	59.3	63.0
010	37584	3568	25879	2397	85129	96837	61.2	65.1
011	37259	3543	25508	2380	84758	96507	58.6	61.0
012	37173	3518	26813	2492	86062	96423	60.0	62.7
013	35112	3311	29636	2763	88886	94364	60.6	63.5
014	33302	3137	30472	2849	89724	92556	61.2	63.1
015	31788	2978	31939	2982	91188	91037	59.6	62.4
016	32743	3079	33405	3147	92657	91993	60.8	63.6
017	27308	2553	36195	3435	95444	86557	61.0	65.8
018	28414	2571	38224	3551	97474	87666	59.1	63.6
019	21301	1978	32059	3052	91306	80549	62.4	66.9
020	31095	2998	37238	3623	96487	90344	60.8	65.6

BS stadia distance: 387.8 meters Low scale el. diff.: .77065 meters
FS stadia distance: 387.7 meters High scale el. diff.: .77115 meters
Length of section: .776 kilometers Mean elevation diff.: .77090 meters

*** This data was collected according to 1st order. Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 85 TJS (0212) To: 18 A HN (0213)

Date: 03/18/93 Begin: 10:35 End: 11:24 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: North at 10-25 km/hr

Collimation check(s):
Time: 07:38 BSCWL= 46686 STADIA= 4442 FSCWL= 46684 C= .00221

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	40157	3789	15592	1321	74836	99404	66.0	68.2
002	30374	2817	27444	2518	86701	89632	66.3	67.8
003	33021	3069	35199	3283	94441	92267	65.2	66.9
004	27285	2507	31918	2973	91171	86537	65.6	71.6
005	31628	2909	36871	3431	96114	90874	66.3	67.7
006	26900	2446	33217	3083	92471	86157	67.7	68.9
007	25530	2307	34245	3172	93491	84773	67.1	68.3
008	22882	2024	39604	3713	98859	82132	65.3	67.6
009	24989	2250	39272	3665	98518	84236	66.9	68.3
010	34863	3238	24125	2177	83382	94121	69.7	70.2
011	42004	3963	19052	1660	78300	101251	66.3	68.5
012	40677	3818	23225	2077	82484	99935	66.2	69.3
013	39718	3777	25700	2380	84946	98961	66.4	68.7
014	38747	3682	27572	2571	86825	98003	67.2	70.3

BS stadia distance: 321.4 meters Low scale el. diff.: 2.28695 meters
FS stadia distance: 321.6 meters High scale el. diff.: 2.28720 meters
Length of section: .643 kilometers Mean elevation diff.: 2.28708 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 18 A HN (0213) To: 85 TJS (0212)

Date: 03/29/93 Begin: 09:33 End: 10:23 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: South at <10 km/hr

Collimation check(s):
Time: 08:14 BSOWL= 39861 STADIA= 3641 FSOWL= 39871 C= -.00725

SETUP	BSOWL	BSSTAD	FSOWL	FSSTAD	FSOWH	BSOWH	UTEMP	LTEMP
001	26992	2512	37989	3607	97239	86241	55.3	59.0
002	24395	2217	38840	3673	98096	83646	54.8	57.7
003	23377	2127	38556	3639	97805	82628	53.8	57.2
004	19472	1728	38630	3638	97802	78722	53.6	55.2
005	20802	1873	35435	3338	94684	80052	56.1	56.5
006	31407	2927	25218	2303	84470	90659	53.1	55.1
007	36391	3436	25014	2315	84265	95641	53.6	54.9
008	39506	3743	26630	2449	85879	98752	54.7	55.5
009	33687	3148	26412	2434	85661	92934	54.9	56.5
010	33026	3064	25446	2321	84695	92278	55.2	59.2
011	34872	3280	27921	2582	87171	94123	55.4	57.1
012	35206	3323	29240	2725	88493	94455	55.0	56.1
013	34706	3273	28637	2650	87886	93959	56.6	57.1
014	30850	2871	44748	4262	103998	90102	55.5	56.0
015	27089	2513	44759	4282	104007	86337	55.2	57.2
016	28989	2758	33021	3179	92272	88242	54.0	57.7

BS stadia distance: 319.7 meters Low scale el. diff.: -2.28645 meters
FS stadia distance: 319.3 meters High scale el. diff.: -2.28660 meters
Length of section: .639 kilometers Mean elevation diff.: -2.28653 meters

*** This data was collected according to 1st order. Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 18 A HN (0213) To: 86 TJS (0214)

Date: 03/18/93 Begin: 12:24 End: 13:04 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: North at 10-25 km/hr

Collimation check(s):
Time: 07:38 BSCWL= 46686 STADIA= 4442 FSCWL= 46684 C= .00221

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	32661	3060	34644	3247	93886	91905	67.3	68.9
002	33204	3091	32922	3061	92180	92459	68.0	69.5
003	32493	3043	39482	3749	98725	91737	67.8	70.4
004	23655	2145	45786	4352	105043	82915	66.5	69.8
005	21500	2000	33490	3203	92736	80744	68.5	73.2
006	23847	2176	39609	3749	98868	83105	68.0	71.1
007	24345	2230	39461	3739	98707	83588	70.0	72.2
008	17551	1498	41573	3901	100831	76807	68.7	70.4
009	22229	1968	34230	3160	93474	81475	68.6	72.3
010	38926	3692	21866	1987	81124	98184	72.4	73.5
011	33607	3280	29188	2826	88436	92855	71.4	74.8
012	32553	3178	32133	3152	91384	91806	68.6	71.6

BS stadia distance: 224.9 meters Low scale el. diff.: -4.39065 meters
FS stadia distance: 224.4 meters High scale el. diff.: -4.39070 meters
Length of section: .449 kilometers Mean elevation diff.: -4.39068 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 86 TJS (0214) To: 18 A HN (0213)

Date: 03/29/93 Begin: 08:14 End: 08:51 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: South at <10 km/hr

Collimation check(s):
Time: 08:14 BSCWL= 39861 STADIA= 3641 FSCWL= 39871 C= -.00725

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	39864	3641	54903	5168	114164	99123	53.2	55.0
002	26617	2369	23437	2036	82684	85860	52.4	51.4
003	40627	3825	19168	1675	78424	99880	49.6	50.7
004	41644	3928	22691	2021	81936	100890	49.2	49.5
005	39398	3712	22994	2073	82250	98649	51.2	50.0
006	39463	3732	24089	2193	83338	98709	50.1	50.7
007	35483	3323	28636	2642	87886	94732	52.0	50.5
008	40513	3844	21302	1918	80555	99763	51.3	50.6
009	33343	3112	31503	2942	90752	92594	50.9	51.6
010	31827	3030	32231	3085	91483	91079	53.4	53.4

BS stadia distance: 231.4 meters Low scale el. diff.: 4.39125 meters
FS stadia distance: 229.7 meters High scale el. diff.: 4.39035 meters
Length of section: .461 kilometers Mean elevation diff.: 4.39080 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JBV

From: 86 TJS (0214) To: 17 A HN (0215)

Date: 03/18/93 Begin: 13:46 End: 14:24 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: North at 10-25 km/hr

Collimation check(s):
Time: 07:38 BSOWL= 46686 STADIA= 4442 FSOWL= 46684 C= .00221

SETUP	BSOWL	BSSTAD	FSOWL	FSSTAD	FSOWH	BSOWH	UTEMP	LTEMP
001	33540	3103	20920	1832	80164	92783	68.5	73.6
002	17657	1551	16310	1417	75568	76916	68.5	72.6
003	46535	4448	16004	1403	75247	105780	70.5	73.1
004	44750	4257	17147	1506	76403	104006	71.5	76.4
005	40933	3875	24441	2232	83685	100179	69.2	72.5
006	33014	3079	27917	2566	87175	92273	70.1	72.2
007	28621	2652	32692	3051	91936	87867	71.7	74.1
008	23185	2101	48922	4668	108178	82442	67.9	69.8
009	27470	2496	33077	3059	92319	86713	72.3	75.2
010	27301	2559	37024	3517	96281	86558	72.2	75.2
011	32614	3048	30645	2832	89892	91860	70.5	74.6
012	28884	2817	34148	3358	93400	88137	72.3	76.3

BS stadia distance: 241.4 meters Low scale el. diff.: 2.26285 meters
FS stadia distance: 243.9 meters High scale el. diff.: 2.26330 meters
Length of section: .485 kilometers Mean elevation diff.: 2.26308 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 17 A HN (0215) To: 86 TJS (0214)

Date: 03/25/93 Begin: 14:50 End: 15:29 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Overcast (>75% clouds) Wind from the: South at >25 km/hr

Collimation check(s):
Time: 07:37 BSCWL= 20074 STADIA= 1783 FSCWL= 20070 C= .00446

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	39290	3657	30358	2747	89604	98534	64.3	65.8
002	40268	3738	28938	2617	88195	99526	65.2	66.2
003	29604	2585	31913	2799	91155	88841	65.1	65.8
004	47267	4368	20893	1733	80152	106525	64.3	65.3
005	34793	3098	33668	2998	92907	94031	63.6	63.9
006	21264	1752	49189	4545	108448	80521	63.6	64.4
007	12427	1489	49253	4677	108498	71671	63.0	63.8
008	12469	1522	25321	2251	84580	71726	62.8	63.4
009	22581	2082	35483	3377	94728	81824	62.2	62.4
010	32385	3136	32591	3162	91843	91638	62.2	62.8

BS stadia distance: 280.5 meters Low scale el. diff.: -2.26295 meters
FS stadia distance: 279.4 meters High scale el. diff.: -2.26365 meters
Length of section: .560 kilometers Mean elevation diff.: -2.26330 meters

*** This data was collected according to 1st order. Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 17 A HN (0215) To: 87 TJS (0216)

Date: 03/18/93 Begin: 15:04 End: 16:09 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: North at 10-25 km/hr

Collimation check(s):
Time: 07:38 BSCWL= 46686 STADIA= 4442 FSCWL= 46684 C= .00221

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	37625	3487	25654	2273	84896	96864	71.7	74.5
002	40456	3818	22971	2071	82230	99714	71.8	73.7
003	30906	2830	27046	2441	86289	90149	70.4	73.1
004	39719	3671	23792	2072	83053	98979	72.2	74.1
005	35767	3245	25760	2249	85003	95009	69.8	72.6
006	31970	2870	27343	2409	86604	91233	71.6	73.1
007	33209	3009	29044	2595	88282	92451	70.9	73.0
008	29518	2618	34623	3129	93888	88781	71.9	74.6
009	24729	2132	31760	2832	91000	83974	70.6	73.3
010	28494	2512	28671	2531	87927	87751	73.1	74.4
011	44961	4240	14285	1181	73529	104207	71.0	71.7
012	56839	5582	13976	1283	73230	116093	70.7	72.8
013	55274	5462	17607	1697	76855	114522	70.4	72.2
014	55799	5513	17533	1697	76785	115051	70.5	71.2
015	55956	5541	38731	3829	97980	115205	69.3	71.0
016	51899	5136	21609	2113	80860	111151	69.4	70.5

BS stadia distance: 356.4 meters Low scale el. diff.: 12.63580 meters
FS stadia distance: 355.8 meters High scale el. diff.: 12.63615 meters
Length of section: .712 kilometers Mean elevation diff.: 12.63598 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 87 TJS (0216) To: 17 A HN (0215)

Date: 03/25/93 Begin: 13:08 End: 14:14 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Overcast (>75% clouds) Wind from the: South at >25 km/hr

Collimation check(s):
Time: 07:37 BSCWL= 20074 STADIA= 1783 FSCWL= 20070 C= .00446

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	10916	1032	56991	5617	116241	70166	66.0	66.2
002	12461	1171	57124	5649	116375	71712	66.5	66.7
003	12445	1185	56800	5613	116050	71694	66.4	67.2
004	11154	1293	44080	4210	103335	70409	65.6	66.5
005	15424	1317	42791	4058	102037	74670	67.0	67.5
006	24910	2202	30965	2790	90222	84167	67.2	68.0
007	35641	3233	28560	2538	87805	94887	66.9	68.2
008	36773	3349	29050	2588	88309	96029	67.0	68.2
009	32354	2922	32788	2956	92031	91600	66.2	66.5
010	29012	2603	33180	3018	92438	88269	65.8	66.4
011	28735	2533	36025	3253	95269	87978	65.8	65.8
012	27100	2403	39166	3609	98422	86354	66.0	66.6
013	21041	1740	36347	3266	95592	80283	65.8	66.5
014	28111	2544	43349	4061	102605	87369	64.9	66.4
015	30004	2808	34544	3274	93791	89249	65.4	66.7
016	28823	2787	35866	3495	95118	88074	65.2	66.5

BS stadia distance: 368.4 meters Low scale el. diff.: -12.63610 meters
FS stadia distance: 367.5 meters High scale el. diff.: -12.63650 meters
Length of section: .736 kilometers Mean elevation diff.: -12.63630 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 87 TJS (0216) To: 16 A HN (0217)

Date: 03/22/93 Begin: 07:45 End: 08:38 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: South at 10-25 km/hr

Collimation check(s):
Time: 07:44 BSCWL= 35504 STADIA= 3357 FSCWL= 35500 C= .00518

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	12677	1211	59532	5891	118781	71926	56.3	57.2
002	12170	1148	58819	5800	118072	71423	56.8	58.4
003	10869	1038	42343	4187	101592	70117	58.3	60.8
004	20926	1980	39410	3824	98664	80181	58.9	61.1
005	33380	3106	23160	2086	82404	92623	59.4	60.2
006	26162	2384	22495	2013	81752	85420	59.2	59.7
007	39873	3738	19304	1700	78549	99116	59.3	59.6
008	42401	3992	20194	1772	79451	101655	59.2	59.5
009	44814	4240	17653	1525	76894	104055	59.3	60.2
010	45836	4333	17891	1543	77149	105092	60.0	61.2
011	45254	4309	17864	1571	77107	104496	60.6	62.2
012	49533	4841	12003	1081	71258	108787	62.8	63.5
013	35246	3455	30693	3000	89942	94493	62.9	63.6
014	29902	2933	26648	2608	85901	89155	64.1	65.2

BS stadia distance: 213.2 meters
FS stadia distance: 212.9 meters
Length of section: .426 kilometers

Low scale el. diff.: 2.05170 meters
High scale el. diff.: 2.05115 meters
Mean elevation diff.: 2.05143 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 16 A HN (0217) To: 87 TJS (0216)

Date: 03/25/93 Begin: 11:36 End: 12:16 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Overcast (>75% clouds) Wind from the: South at 10-25 km/hr

Collimation check(s):
Time: 07:37 BSCWL= 20074 STADIA= 1783 FSCWL= 20070 C= .00446

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	17175	1628	53025	5214	112275	76425	67.4	70.1
002	21409	1992	41844	4020	101096	80661	68.5	70.9
003	19167	1692	45001	4279	104250	78415	67.2	67.8
004	16683	1416	45142	4268	104395	75937	67.9	68.5
005	14413	1153	44209	4138	103455	73657	66.2	67.0
006	18880	1612	42992	4032	102252	78136	66.5	67.4
007	22450	1948	27362	2452	86608	81694	66.2	66.9
008	25071	2345	35182	3358	94435	84325	65.2	67.6
009	44556	4313	24410	2311	83656	103802	64.5	66.7
010	52952	5231	17096	1626	76348	112203	68.2	69.1
011	55717	5530	19306	1887	78555	114968	66.4	67.2
012	56990	5617	10918	1031	70169	116242	66.2	67.2

BS stadia distance: 200.3 meters
FS stadia distance: 198.4 meters
Length of section: .399 kilometers

Low scale el. diff.: -2.05120 meters
High scale el. diff.: -2.05145 meters
Mean elevation diff.: -2.05132 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 16 A HN (0217) To: 1 PDI (0218)

Date: 03/22/93 Begin: 09:22 End: 10:16 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: North at 10-25 km/hr

Collimation check(s):
Time: 07:44 BSCWL= 35504 STADIA= 3357 FSCWL= 35500 C= .00518

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	11756	1055	56248	5511	115496	71004	68.5	69.2
002	46860	4478	16781	1457	76038	106119	65.9	67.0
003	49842	4737	14420	1192	73662	109085	67.0	68.2
004	52109	4925	11790	1453	71043	111370	67.0	67.9
005	53510	5082	15453	1279	74696	112750	67.6	68.4
006	45300	4248	20254	1741	79512	104557	67.6	68.0
007	46192	4328	16998	1412	76239	105430	68.3	68.8
008	45101	4223	17189	1418	76448	104361	67.8	68.2
009	45289	4244	20265	1739	79505	104530	67.7	68.5
010	44197	4128	23154	2037	82414	103456	68.5	68.9
011	46249	4342	20267	1739	79507	105488	67.9	69.2
012	43284	4050	21175	1858	80431	102539	70.4	70.6
013	47800	4487	13100	1022	72341	107040	67.6	69.1
014	42046	4008	23244	2122	82502	101305	68.1	70.0

BS stadia distance: 355.5 meters Low scale el. diff.: 16.45985 meters
FS stadia distance: 353.6 meters High scale el. diff.: 16.45970 meters
Length of section: .709 kilometers Mean elevation diff.: 16.45978 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 1 PDI (0218) To: 16 A HN (0217)

Date: 03/25/93 Begin: 09:16 End: 10:06 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Overcast (>75% clouds) Wind from the: North at 10-25 km/hr

Collimation check(s):
Time: 07:37 BSCWL= 20074 STADIA= 1783 FSCWL= 20070 C= .00446

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	23795	2158	42198	3993	101444	83039	62.0	62.8
002	19466	1789	39035	3743	98288	78720	60.8	61.7
003	16800	1383	44106	4121	103350	76044	61.4	62.2
004	18275	1530	42803	3992	102064	77532	61.4	62.2
005	18121	1492	44222	4095	103467	77367	61.4	62.3
006	17020	1388	45969	4270	105223	76273	61.9	63.2
007	17340	1420	47074	4391	106315	76584	61.4	62.9
008	15852	1268	46423	4336	105677	75107	61.4	62.2
009	16320	1324	44889	4191	104136	75565	62.0	62.5
010	12949	1008	53174	5018	112431	72206	62.0	62.4
011	10077	1278	51490	4860	110735	69321	61.7	62.6
012	17943	1594	46242	4422	105493	77196	61.4	62.4
013	18072	1601	39446	3749	98695	77320	61.3	62.4
014	53024	5213	17174	1628	76425	112275	60.2	61.2

BS stadia distance: 355.0 meters Low scale el. diff.: -16.45955 meters
FS stadia distance: 354.1 meters High scale el. diff.: -16.45970 meters
Length of section: .709 kilometers Mean elevation diff.: -16.45963 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 1 PDI (0218) To: 2 PDI (0219)

Date: 03/22/93 Begin: 11:18 End: 12:16 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: North at <10 km/hr

Collimation check(s):
Time: 07:44 BSCWL= 35504 STADIA= 3357 FSCWL= 35500 C= .00518

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	39780	3714	28955	2631	88195	99023	73.2	75.0
002	50209	4770	16076	1342	75335	109468	70.9	71.8
003	51141	4839	16327	1368	75571	110381	73.2	73.5
004	48278	4538	16098	1313	75357	107535	72.9	73.1
005	50613	4771	13159	1008	72405	109855	71.6	72.5
006	48159	4553	18099	1553	77354	107417	73.6	73.9
007	38991	3611	27125	2437	86366	98231	71.6	71.8
008	32427	2960	37165	3428	96421	91684	72.6	73.5
009	33578	3061	24531	2158	83771	92818	72.6	73.5
010	44517	4179	21312	1862	80571	103773	74.0	75.0
011	46334	4362	17292	1449	76536	105580	73.3	73.9
012	48534	4580	18483	1576	77740	107793	75.0	75.5
013	45532	4278	20053	1729	79296	104773	72.9	73.8
014	43335	4068	19558	1699	78817	102595	73.5	74.6
015	45719	4333	18903	1652	78148	104967	75.3	77.0
016	35799	3456	24738	2346	83991	95052	74.0	75.4

BS stadia distance: 414.7 meters Low scale el. diff.: 18.25360 meters
FS stadia distance: 414.9 meters High scale el. diff.: 18.25355 meters
Length of section: .830 kilometers Mean elevation diff.: 18.25357 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 2 PDI (0219) To: 1 PDI (0218)

Date: 03/25/93 Begin: 07:37 End: 08:32 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Overcast (>75% clouds) Wind from the: North at <10 km/hr

Collimation check(s):
Time: 07:37 BSCWL= 20074 STADIA= 1783 FSCWL= 20070 C= .00446

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	20074	1783	41769	3959	101017	79322	56.6	56.8
002	20360	1821	42311	4022	101567	79616	56.8	57.0
003	17539	1468	43239	4033	102480	76781	56.6	57.0
004	16970	1401	45125	4220	104385	76226	56.2	56.9
005	14925	1213	47246	4448	106487	74168	56.0	56.6
006	16323	1329	45667	4254	104926	75582	55.7	56.6
007	20013	1725	39075	3627	98319	79259	57.0	57.3
008	33379	2997	28258	2483	87516	92637	56.8	57.2
009	28875	2530	40460	3700	99701	88117	56.2	57.2
010	15766	1270	49341	4628	108600	75025	56.4	57.3
011	11978	1493	49894	4678	109135	71217	56.8	57.9
012	14817	1202	49428	4661	108685	74072	57.0	58.1
013	16805	1405	49451	4664	108693	76049	57.9	59.4
014	13642	1077	48482	4560	107738	72900	58.1	59.7
015	27759	2631	31194	2978	90440	87006	59.9	59.8
016	30561	2978	33926	3319	93179	89813	59.6	59.8

BS stadia distance: 417.3 meters Low scale el. diff.: -18.25400 meters
FS stadia distance: 416.6 meters High scale el. diff.: -18.25390 meters
Length of section: .834 kilometers Mean elevation diff.: -18.25395 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 2 PDI (0219) To: 3 PDI (0220)

Date: 03/22/93 Begin: 13:38 End: 14:49 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: South at <10 km/hr

Collimation check(s):
Time: 07:44 BSCWL= 35504 STADIA= 3357 FSCWL= 35500 C= .00518

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	31174	2898	46222	4392	105463	90413	78.4	84.6
002	26950	2472	37645	3543	96905	86209	77.4	81.5
003	19281	1688	41912	3962	101152	78520	76.8	80.2
004	21666	1898	31575	2891	90835	80927	78.7	80.6
005	33013	3018	30690	2788	89929	92249	78.0	79.8
006	40256	3743	18236	1539	77500	99519	77.4	79.9
007	42775	4030	17973	1552	77214	102013	77.5	80.3
008	41280	3881	17583	1512	76845	100543	78.5	80.7
009	41205	3893	19281	1687	78520	100444	77.0	79.2
010	44562	4221	17355	1500	76616	103825	79.2	80.6
011	46272	4392	16333	1403	75575	105513	76.7	78.9
012	49028	4665	15977	1350	75241	108288	77.8	79.3
013	45340	4298	16554	1420	75793	104580	76.6	80.2
014	47058	4465	14714	1238	73978	106318	79.3	79.8
015	52589	5040	11111	1321	70354	111829	77.8	78.6
016	54130	5207	12800	1072	72059	113389	76.6	77.2
017	52362	4992	14256	1183	73497	111600	77.2	78.0
018	46484	4413	18169	1579	77430	105748	75.0	77.3
019	42130	3970	19666	1721	78905	101366	74.1	76.9
020	59420	5680	26309	2362	85571	118684	78.5	79.4
021	32032	3113	45602	4470	104848	91278	77.2	77.9
022	31506	3063	27761	2697	87015	90760	78.1	78.3

BS stadia distance: 490.0 meters Low scale el. diff.: 19.13945 meters
FS stadia distance: 491.0 meters High scale el. diff.: 19.13850 meters
Length of section: .981 kilometers Mean elevation diff.: 19.13898 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 3 PDI (0220) To: 2 PDI (0219)

Date: 03/23/93 Begin: 12:24 End: 13:43 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: South at >25 km/hr

Collimation check(s):
Time: 07:48 BSCWL= 23701 STADIA= 2177 FSCWL= 23703 C= -.00259

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	28939	2743	23046	2155	82292	88181	77.2	79.0
002	35785	3371	35816	3380	95076	95046	78.4	79.8
003	22219	1942	46949	4414	106188	81456	77.0	77.9
004	11202	1262	38142	3676	97397	70458	79.5	79.7
005	17267	1498	44864	4251	104108	76508	76.4	77.9
006	13371	1089	52659	5013	111920	72633	76.3	77.2
007	12324	1010	57122	5483	116366	71563	77.9	77.8
008	12495	1032	52476	5020	111734	71754	78.4	79.4
009	15257	1309	45031	4292	104272	74500	76.8	77.5
010	15835	1340	45448	4307	104709	75097	78.0	78.3
011	15918	1353	48717	4638	107957	75160	77.1	77.8
012	15015	1263	45355	4298	104615	74277	77.4	78.7
013	16769	1432	45767	4331	105005	76005	77.5	79.2
014	15204	1658	44304	4166	103565	78464	78.3	79.4
015	18101	1563	41648	3918	100885	77339	78.2	80.2
016	17177	1452	42699	4000	101962	76438	77.4	79.3
017	19917	1702	37124	3412	96363	79152	78.9	80.4
018	30883	2809	31788	2906	91053	90149	78.0	79.2
019	35640	3353	23326	2128	82564	94876	78.2	79.1
020	42941	4067	22499	2015	81764	102209	78.0	78.3
021	40546	3793	25338	2278	84573	99781	78.3	79.5
022	39138	3736	28571	2677	87831	98399	78.4	79.2

BS stadia distance: 500.7 meters Low scale el. diff.: -19.13730 meters
FS stadia distance: 500.2 meters High scale el. diff.: -19.13770 meters
Length of section: 1.001 kilometers Mean elevation diff.: -19.13750 meters

*** This data was collected according to 1st order. Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 3 PDI (0220) To: 15 A HN (0221)

Date: 03/22/93 Begin: 15:33 End: 16:15 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: South at 10-25 km/hr

Collimation check(s):
Time: 07:44 BSCWL= 35504 STADIA= 3357 FSCWL= 35500 C= .00518

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	40163	3687	34730	3132	93964	99400	75.4	76.9
002	29088	2600	43057	4001	102320	88351	74.7	75.4
003	14890	1209	38265	3567	97505	74128	74.3	75.6
004	24834	2187	35509	3260	94773	84097	75.6	77.4
005	29355	2665	26823	2413	86063	88595	76.0	77.1
006	37546	3511	17512	1507	76773	96806	77.0	77.5
007	41653	3924	24764	2241	84004	100893	74.4	75.8
008	43079	4033	20869	1823	80128	102338	74.5	75.4
009	40067	3791	15879	1363	75122	99306	73.7	74.2
010	56614	5476	13076	1123	72334	115874	73.6	74.6
011	48795	4672	25131	2309	84370	108036	73.0	73.2
012	30548	2920	41465	3996	100720	89804	73.7	74.8

BS stadia distance: 291.5 meters Low scale el. diff.: 4.97760 meters
FS stadia distance: 291.0 meters High scale el. diff.: 4.97760 meters
Length of section: .583 kilometers Mean elevation diff.: 4.97760 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 15 A HN (0221) To: 3 PDI (0220)

Date: 03/23/93 Begin: 09:51 End: 10:40 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: South at 10-25 km/hr

Collimation check(s):
Time: 07:48 BSCWL= 23701 STADIA= 2177 FSCWL= 23703 C= -.00259

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	41686	3979	32476	3078	91721	100931	73.7	75.4
002	22858	2128	44385	4263	103640	82113	72.1	74.8
003	12224	1052	49468	4772	108712	71468	73.2	75.7
004	13097	1152	36496	3492	95749	72352	73.0	74.3
005	23609	2173	38670	3675	97914	82854	73.7	73.4
006	22288	2019	40537	3851	99792	81543	74.2	73.6
007	25609	2338	41571	3928	100813	84852	74.4	73.9
008	19088	1657	38828	3631	98085	78345	75.2	74.0
009	29351	2648	29061	2621	88303	88591	74.9	75.0
010	36812	3441	27035	2452	86292	96068	73.0	73.6
011	43212	4052	18536	1573	77782	102457	72.7	75.4
012	41943	3946	25244	2273	84501	101201	73.0	74.2
013	32125	2968	45707	4340	104950	91366	73.7	76.0
014	30481	2932	25903	2493	85157	89733	74.9	76.8

BS stadia distance: 288.5 meters Low scale el. diff.: -4.97670 meters
FS stadia distance: 287.8 meters High scale el. diff.: -4.97685 meters
Length of section: .576 kilometers Mean elevation diff.: -4.97678 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 15 A HN (0221) To: 14 A HN (0222)

Date: 03/23/93 Begin: 07:48 End: 08:52 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: South at <10 km/hr

Collimation check(s):
Time: 07:48 BSCWL= 23701 STADIA= 2177 FSCWL= 23703 C= -.00259

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	23701	2177	45345	4353	104597	82952	61.0	60.4
002	23444	2123	47914	4569	107164	82693	61.2	60.8
003	16776	1465	48807	4678	108059	76026	61.1	62.4
004	14495	1268	46834	4501	106084	73744	61.5	61.8
005	17742	1626	41936	4041	101138	76992	61.0	61.9
006	16653	1486	46169	4432	105420	75903	61.5	63.4
007	12663	1022	52907	5050	112159	71912	61.8	63.9
008	13615	1143	45452	4322	104702	72866	62.4	63.7
009	16694	1426	44818	4241	104069	75942	62.6	64.3
010	18401	1579	44304	4162	103555	77652	62.6	64.2
011	18669	1581	44903	4219	104155	77918	63.2	64.9
012	25007	2254	38542	3603	97793	84260	63.5	64.8
013	21425	1869	33823	3707	99071	80673	63.1	65.4
014	22739	2010	40797	3808	100054	81993	63.5	65.2
015	24018	2146	40451	3789	99702	83267	64.2	66.9
016	22307	1972	39193	3643	98446	81563	63.4	66.1
017	22765	2013	40159	3761	99408	82012	64.4	66.1
018	24713	2275	18917	1702	78170	83965	64.4	66.8
019	40434	3932	17964	1697	77213	99684	67.4	68.5
020	42250	4042	22234	2048	81487	101504	68.1	69.8

BS stadia distance: 436.1 meters Low scale el. diff.: -18.44790 meters
FS stadia distance: 434.4 meters High scale el. diff.: -18.44875 meters
Length of section: .871 kilometers Mean elevation diff.: -18.44833 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 14 A HN (0222) To: 15 A HN (0221)

Date: 04/08/93 Begin: 11:25 End: 12:22 Time zone: Pacific Daylight
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: South at 10-25 km/hr

Collimation check(s):
Time: 07:45 BSCWL= 21449 STADIA= 1878 FSCWL= 21454 C= -.00470

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	22617	2073	54916	5298	114169	81870	68.8	71.1
002	19966	1779	38696	3643	97943	79211	67.4	68.5
003	41597	3858	22826	1985	82078	100849	66.7	69.8
004	39832	3700	21160	1836	80406	99080	69.1	70.2
005	42670	3959	23524	2059	32773	101922	69.0	70.6
006	42562	3931	20148	1684	79388	101804	69.4	69.3
007	40990	3788	21694	1849	80948	100239	70.2	70.2
008	42832	3967	18342	1529	77583	102075	70.0	70.2
009	42578	3992	17126	1452	76378	101829	69.4	69.9
010	42948	4043	16259	1370	75510	102194	69.6	70.6
011	46346	4388	12894	1038	72145	105598	69.7	70.3
012	51972	4950	10161	1263	69409	111222	70.6	70.7
013	52516	5008	13049	1073	72307	111775	70.6	70.2
014	48923	4671	13016	1075	72263	108170	69.8	69.9
015	49709	4744	14486	1213	73740	108965	68.9	69.3
016	46156	4400	17338	1523	76582	105402	69.0	69.3
017	42770	4144	24552	2332	83803	102022	68.6	69.6
018	37819	3682	25635	2470	84883	97067	69.7	70.6

BS stadia distance: 431.3 meters
FS stadia distance: 430.4 meters
Length of section: .862 kilometers

Low scale el. diff.: -18.44905 meters
High scale el. diff.: -18.44900 meters
Mean elevation diff.: -18.44903 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 14 A HN (0222) To: 13 A HN (0223)

Date: 03/30/93 Begin: 07:55 End: 08:58 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: North at <10 km/hr

Collimation check(s):
Time: 07:55 BSCWL= 38528 STADIA= 3630 FSCWL= 38533 C= -.00563

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	11978	1052	53782	5235	113036	71230	56.2	58.0
002	12156	1087	54677	5332	113927	71405	56.8	58.0
003	12717	1123	37429	3589	96682	71971	55.7	58.8
004	38636	3548	33182	3000	92426	97881	58.5	60.2
005	26239	2295	37641	3440	96895	85489	55.7	57.7
006	24288	2107	37585	3422	96832	83534	55.8	57.9
007	25255	2218	35214	3228	94467	84506	55.8	57.5
008	25570	2256	40055	3705	99298	84814	56.6	58.2
009	23953	2082	37592	3442	96845	83205	56.2	58.6
010	22943	1988	38136	3510	97384	82190	59.1	61.2
011	24476	2132	37115	3402	96370	83728	59.0	59.9
012	24028	2089	38743	3553	97991	83276	59.4	61.4
013	23410	2022	38353	3528	97604	82662	59.6	61.7
014	25375	2226	39396	3634	98645	84626	59.4	61.6
015	23865	2090	34035	3129	93285	83118	59.4	62.2
016	30357	2862	33791	3191	93041	89609	60.6	63.2

BS stadia distance: 426.3 meters Low scale el. diff.: -12.57400 meters
FS stadia distance: 424.0 meters High scale el. diff.: -12.57420 meters
Length of section: .850 kilometers Mean elevation diff.: -12.57410 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 13 A HN (0223) To: 14 A HN (0222)

Date: 04/08/93 Begin: 09:49 End: 10:42 Time zone: Pacific Daylight
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: South at <10 km/hr

Collimation check(s):
Time: 07:45 BSCWL= 21449 STADIA= 1878 FSCWL= 21454 C= -.00470

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	39977	3692	22078	2491	81337	99233	61.3	65.6
002	32940	2982	28003	2487	87245	92182	63.0	65.4
003	40947	3761	24443	2110	83700	100204	62.3	65.4
004	40615	3731	24572	2120	83816	99854	62.6	66.5
005	39712	3615	24230	2063	83487	98968	62.8	65.6
006	39805	3644	24878	2141	84121	99050	63.4	65.8
007	41338	3788	21958	1843	81214	100591	63.4	66.5
008	38645	3518	25930	2252	85172	97889	63.3	65.4
009	37789	3438	25863	2249	85119	97042	64.0	68.2
010	39620	3630	26342	2297	85589	98867	63.5	65.6
011	38415	3527	25905	2272	85157	97671	63.4	66.3
012	36442	3298	24241	2082	83483	95688	63.4	65.6
013	58029	5678	11377	1022	70630	117284	65.4	67.8
014	53819	5250	16785	1553	76031	113065	66.4	69.2

BS stadia distance: 420.8 meters
FS stadia distance: 419.0 meters
Length of section: .840 kilometers

Low scale el. diff.: 12.57440 meters
High scale el. diff.: 12.57435 meters
Mean elevation diff.: 12.57438 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 13 A HN (0223) To: 12 A HN (0224)

Date: 03/30/93 Begin: 09:44 End: 11:03 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: South at <10 km/hr

Collimation check(s):
Time: 07:55 BSCWL= 38528 STADIA= 3630 FSCWL= 38533 C= -.00563

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	26272	2353	46882	4397	106132	85520	63.2	68.9
002	30200	2757	36524	3392	95783	89458	64.7	69.0
003	25066	2231	39374	3663	98621	84315	64.4	66.3
004	23934	2110	40176	3732	99429	83188	63.6	64.0
005	22537	1988	44341	4180	103586	81785	64.6	64.8
006	15031	1231	49017	4630	108270	74284	64.1	64.5
007	16952	1423	48546	4587	107798	76200	63.6	64.5
008	15453	1282	45908	4332	105164	74704	62.6	63.0
009	17326	1476	40320	3763	99568	76574	63.4	63.6
010	26809	2408	33560	3079	92814	86065	63.8	63.9
011	38988	3621	27794	2502	87041	98236	63.0	63.4
012	33455	3072	34484	3178	93736	92708	64.2	64.1
013	28000	2528	39568	3677	98813	87249	65.5	65.6
014	20021	1740	46050	4342	105304	79273	65.6	65.7
015	14984	1219	49142	4638	108389	74234	65.6	66.7
016	14749	1228	47265	4481	106519	74003	64.1	65.2
017	15439	1279	48368	4566	107615	74690	64.6	65.0
018	14763	1199	49884	4703	109136	74018	64.5	65.0
019	14939	1232	49058	4638	108305	74183	63.9	64.6
020	19329	1661	41148	3858	100401	78579	64.0	64.7
021	34251	3213	20258	1823	79504	93500	67.2	67.8
022	54312	5191	21725	1920	80976	113564	65.6	69.8

BS stadia distance: 574.8 meters Low scale el. diff.: -18.82910 meters
FS stadia distance: 573.9 meters High scale el. diff.: -18.82870 meters
Length of section: 1.149 kilometers Mean elevation diff.: -18.82890 meters

*** This data was collected according to 1st order. Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 12 A HN (0224) To: 13 A HN (0223)

Date: 04/08/93 Begin: 07:45 End: 08:57 Time zone: Pacific Daylight
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: North at <10 km/hr

Collimation check(s):
Time: 07:45 BSCWL= 21449 STADIA= 1878 FSCWL= 21454 C= -.00470

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	21449	1878	57699	5507	116955	80707	48.2	48.6
002	21808	1813	21067	1752	80307	81050	49.8	49.6
003	45567	4305	14792	1208	74052	104824	50.5	51.1
004	48091	4546	15291	1278	74529	107328	51.5	52.3
005	48087	4548	15398	1272	74662	107350	52.4	53.2
006	46824	4427	13958	1132	73195	106061	53.8	54.3
007	51548	4850	12260	1530	71522	110811	54.5	54.8
008	52967	4919	14836	1117	74071	112202	55.8	55.8
009	41790	3781	28286	2432	87550	101056	54.6	55.7
010	29410	2610	37293	3302	96530	88646	55.1	56.6
011	29098	2518	25822	2190	85092	88366	53.9	55.5
012	46202	4292	13022	1635	72258	105437	55.2	56.2
013	49599	4658	13211	1033	72473	108859	56.3	56.0
014	48354	4542	13629	1070	72869	107594	56.4	57.4
015	53003	4930	18289	1455	77551	112268	56.2	57.5
016	43518	3976	21200	1735	80437	102756	55.8	57.2
017	42006	3850	27270	2272	86530	101266	56.2	57.2
018	34385	3248	21672	1969	80914	93627	56.9	57.5
019	34836	3377	29230	2821	88485	94090	58.1	58.5
020	34045	3327	31789	3111	91037	93293	57.5	58.5

BS stadia distance: 576.5 meters Low scale el. diff.: 18.82865 meters
FS stadia distance: 575.9 meters High scale el. diff.: 18.82860 meters
Length of section: 1.152 kilometers Mean elevation diff.: 18.82863 meters

*** This data was collected according to 1st order. Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 12 A HN (0224) To: 11 A HN (0225)

Date: 03/30/93 Begin: 12:07 End: 13:34 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Partly cloudy (25%-75% clouds) Wind from the: South at 10-25 km/hr

Collimation check(s):
Time: 07:55 BSCWL= 38528 STADIA= 3630 FSCWL= 38533 C= -.00563

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	20671	1853	42772	4052	102019	79920	68.5	71.9
002	21431	1940	40864	3900	100119	80684	67.5	70.1
003	24372	2294	31713	3032	90961	83618	67.8	71.7
004	28106	2522	38485	3556	97739	87359	68.2	70.8
005	21153	1823	41739	3889	100290	80406	68.8	69.0
006	21442	1848	39517	3661	98776	80697	67.6	68.0
007	23384	2062	37258	3447	96509	82635	70.3	71.2
008	27041	2467	35264	3284	94521	86294	68.8	70.2
009	27767	2520	36297	3352	95541	87014	69.4	71.1
010	27425	2497	34860	3233	94113	86678	69.4	70.7
011	28398	2581	36073	3362	95319	87641	69.2	70.3
012	30419	2793	36448	3385	95705	89675	68.6	70.7
013	27810	2528	37084	3452	96331	87055	68.0	69.4
014	27004	2455	34777	3227	94034	86262	67.7	68.4
015	26954	2432	38270	3558	97514	86201	68.0	68.2
016	28929	2611	36344	3350	95600	88187	67.6	68.8
017	26366	2330	37763	3462	97008	85610	67.5	68.2
018	25474	2223	34626	3157	93885	84734	67.5	67.8
019	25131	2194	37290	3398	96532	84377	67.6	69.0
020	26336	2309	37600	3433	96861	85596	68.3	69.4
021	25206	2202	39220	3613	98467	84452	69.2	70.3
022	22842	1942	46616	4332	105870	82096	67.6	68.2
023	16831	1422	23487	2603	82735	76077	67.5	69.3
024	51530	4897	12721	1008	71977	110784	66.2	69.0

BS stadia distance: 635.5 meters Low scale el. diff.: -11.75330 meters
FS stadia distance: 636.0 meters High scale el. diff.: -11.75370 meters
Length of section: 1.272 kilometers Mean elevation diff.: -11.75350 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 11 A HN (0225) To: 12 A HN (0224)

Date: 04/06/93 Begin: 14:58 End: 16:16 Time zone: Pacific Daylight
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: North at >25 km/hr

Collimation check(s):
Time: 08:00 BSCWL= 32589 STADIA= 3031 FSCWL= 32591 C= -.00220

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	24980	2322	36475	3473	95731	84236	67.0	70.3
002	17791	1615	50145	4839	109391	77036	68.2	70.1
003	37154	3470	17059	1461	76318	96411	66.8	68.6
004	40014	3741	24347	2165	83593	99256	64.2	65.3
005	37339	3468	25529	2302	84784	96594	65.2	66.9
006	36439	3357	27870	2500	87115	95682	67.9	69.0
007	38453	3552	28577	2567	87838	97710	65.4	70.2
008	38617	3573	28688	2573	87928	97862	65.6	67.9
009	39027	3589	26534	2327	85789	98281	66.0	67.1
010	36508	3340	27122	2402	86369	95754	67.3	69.3
011	36647	3332	25223	2204	84474	95898	66.5	67.6
012	38499	3502	26813	2342	86058	97739	63.4	66.3
013	37786	3451	26351	2316	85604	97040	63.8	65.4
014	35947	3252	26861	2333	86104	95192	63.9	65.7
015	36159	3287	26750	2349	86006	95412	65.0	67.2
016	36128	3289	25953	2263	85196	95371	65.7	68.2
017	38106	3479	23539	2017	82796	97352	66.2	68.5
018	40725	3749	20275	1699	79520	99970	63.7	65.8
019	41907	3862	19920	1664	79170	101160	63.0	65.8
020	41244	3791	27669	2434	86913	100487	66.0	67.2
021	42157	3933	18224	1523	77481	101415	66.5	68.8
022	44895	4247	21523	1929	80769	104138	65.4	67.4

BS stadia distance: 634.9 meters Low scale el. diff.: 11.75375 meters
FS stadia distance: 635.8 meters High scale el. diff.: 11.75295 meters
Length of section: 1.271 kilometers Mean elevation diff.: 11.75335 meters

*** This data was collected according to 1st order. Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 11 A HN (0225) To: 4 PDI (0226)

Date: 03/30/93 Begin: 14:31 End: 15:25 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: South at <10 km/hr

Collimation check(s):
Time: 07:55 BSCWL= 38528 STADIA= 3630 FSCWL= 38533 C= -.00563

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	12727	1009	59463	5698	118708	71973	70.0	72.6
002	10479	1187	30868	2916	90120	69733	72.5	73.8
003	37734	3522	37067	3453	96317	96981	70.4	72.8
004	18756	1550	45577	4223	104830	78011	70.0	71.8
005	16943	1369	48106	4487	107352	76184	70.0	71.4
006	18320	1508	41100	3781	100357	77579	70.3	70.6
007	24471	2118	37226	3409	96471	83715	70.5	71.4
008	27312	2397	37612	3427	96866	86569	70.7	71.4
009	25318	2200	37545	3418	96789	84564	70.8	72.1
010	26650	2332	37815	3460	97069	85901	71.6	73.3
011	25012	2162	38910	3546	98159	84260	70.5	72.1
012	24962	2151	36920	3351	96172	84216	70.7	71.5
013	28914	2739	20717	1929	79965	88162	71.8	72.2
014	31827	3116	30602	2990	89854	91078	69.1	70.2

BS stadia distance: 382.4 meters Low scale el. diff.: -10.50515 meters
FS stadia distance: 382.2 meters High scale el. diff.: -10.50515 meters
Length of section: .765 kilometers Mean elevation diff.: -10.50515 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 4 PDI (0226) To: 11 A HN (0225)

Date: 04/06/93 Begin: 13:08 End: 14:04 Time zone: Pacific Daylight
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: North at 10-25 km/hr

Collimation check(s):
Time: 08:00 BSCWL= 32589 STADIA= 3031 FSCWL= 32591 C= -.00220

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	30467	2832	40058	3791	99315	89722	63.9	66.2
002	36115	3377	27581	2519	86826	95360	64.7	64.9
003	35486	3301	24965	2250	84223	94746	60.8	63.0
004	35714	3313	26797	2410	86040	94958	59.4	61.5
005	36776	3392	26531	2379	85788	96033	62.6	63.0
006	34538	3200	26819	2421	86058	93782	62.9	64.9
007	37586	3510	27371	2493	86628	96847	62.2	64.6
008	35400	3293	29044	2647	88286	94639	59.8	62.7
009	38296	3586	27373	2502	86628	97551	63.3	66.4
010	37600	3513	20349	1738	79591	96845	62.6	63.5
011	42272	3973	20160	1767	79416	101525	63.5	64.2
012	43053	4060	25877	2342	85120	102297	63.6	64.1
013	15469	1400	32282	3073	91535	74722	63.7	66.1
014	50209	4888	21745	2032	80989	109457	63.1	66.8
015	51665	4929	13315	1098	72570	110918	61.3	67.9
016	59671	5729	19933	2225	79177	118912	66.2	70.7

BS stadia distance: 365.4 meters Low scale el. diff.: 10.50585 meters
FS stadia distance: 366.3 meters High scale el. diff.: 10.50620 meters
Length of section: .732 kilometers Mean elevation diff.: 10.50603 meters

*** This data was collected according to 1st order. Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 4 PDI (0226) To: 10 A HN. (0227)

Date: 03/30/93 Begin: 15:55 End: 16:39 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: South at <10 km/hr

Collimation check(s):
Time: 07:55 BSOWL= 38528 STADIA= 3630 FSOWL= 38533 C= -.00563

SETUP	BSOWL	BSSTAD	FSOWL	FSSTAD	FSOWH	BSOWH	UTEMP	LTEMP
001	25936	2308	48721	4587	107969	85183	70.8	71.8
002	24758	2074	38629	3450	97885	84018	70.3	71.0
003	23942	1988	38500	3450	97743	83182	69.4	70.7
004	25896	2180	35346	3140	94608	85154	69.6	70.2
005	26226	2217	34060	3000	93300	85464	69.7	70.6
006	27255	2316	36921	3283	96179	86511	69.1	69.6
007	19486	1542	50913	4691	110157	78729	68.4	68.8
008	14497	1108	48583	4523	107837	73753	68.6	68.7
009	12684	1582	51482	4811	110724	71928	68.5	68.8
010	16592	1375	22583	1979	81839	75848	68.6	69.3
011	48563	4750	19404	1843	78652	107811	68.0	69.4
012	37268	3662	31251	3062	90502	96519	68.4	69.6

BS stadia distance: 377.2 meters
FS stadia distance: 377.1 meters
Length of section: .754 kilometers

Low scale el. diff.: -7.66450 meters
High scale el. diff.: -7.66475 meters
Mean elevation diff.: -7.66463 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 10 A HN (0227) To: 4 PDI (0226)

Date: 04/06/93 Begin: 11:21 End: 12:11 Time zone: Pacific Daylight
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: North at 10-25 km/hr

Collimation check(s):
Time: 08:00 BSOWL= 32589 STADIA= 3031 FSOWL= 32591 C= -.00220

SETUP	BSOWL	BSSTAD	FSOWL	FSSTAD	FSOWH	BSOWH	UTEMP	LTEMP
001	21785	2014	54477	5284	113732	81039	58.3	62.4
002	18544	1608	19628	1702	78871	77789	57.3	58.7
003	48645	4583	14370	1160	73626	107901	56.0	57.1
004	46355	4360	18238	1552	77479	105600	56.8	58.2
005	47273	4431	18501	1570	77761	106534	56.9	57.7
006	42967	4009	28024	2521	87264	102205	58.7	59.8
007	38244	3532	28468	2557	87728	97505	58.2	59.6
008	37211	3443	32279	2936	91515	96447	59.2	59.9
009	35782	3281	28253	2532	87514	95042	56.2	56.9
010	34289	3140	27759	2483	86998	93532	57.2	58.2
011	36854	3393	27064	2413	86322	96110	58.7	59.0
012	37612	3463	26734	2372	85972	96854	58.4	59.0
013	38574	3518	14490	1753	73749	97832	56.9	59.3
014	38628	3653	31199	2902	90440	97870	57.7	59.8

BS stadia distance: 377.2 meters Low scale el. diff.: 7.66395 meters
FS stadia distance: 375.9 meters High scale el. diff.: 7.66445 meters
Length of section: .753 kilometers Mean elevation diff.: 7.66420 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 10 A HN (0227) To: 9 A HN (0228)

Date: 03/31/93 Begin: 07:45 End: 08:40 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: North at 10-25 km/hr

Collimation check(s):
Time: 07:45 BSCWL= 13267 STADIA= 1111 FSCWL= 13273 C= -.00698

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	13269	1111	52510	5026	111766	72523	57.0	58.8
002	18609	1759	49904	4889	109152	77856	59.0	59.3
003	13834	1319	45430	4473	104681	73085	60.0	59.7
004	12498	1574	46596	4333	105843	71744	57.8	58.8
005	21667	1837	39966	3678	99216	80917	57.4	58.4
006	23201	1959	40858	3720	100106	82449	57.3	58.7
007	24726	2126	40983	3743	100235	83979	56.8	57.9
008	23518	1992	41536	3789	100784	82769	57.8	58.7
009	24879	2122	43293	3970	102546	84131	57.9	59.2
010	19677	1620	46391	4232	105643	78929	57.9	59.2
011	17422	1392	59012	5555	118270	76677	57.5	58.5
012	18777	1653	39230	3697	98477	78026	60.8	62.2
013	27134	2617	23851	2283	83102	86384	61.6	63.7
014	49009	4834	21678	2101	80929	108259	60.5	64.1

BS stadia distance: 351.3 meters Low scale el. diff.: -14.15090 meters
FS stadia distance: 350.1 meters High scale el. diff.: -14.15110 meters
Length of section: .701 kilometers Mean elevation diff.: -14.15100 meters

*** This data was collected according to 1st order. Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 9 A HN (0228) To: 10 A HN (0227)

Date: 04/06/93 Begin: 09:46 End: 10:35 Time zone: Pacific Daylight
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: North at 10-25 km/hr

Collimation check(s):
Time: 08:00 BSCWL= 32589 STADIA= 3031 FSCWL= 32591 C= -.00220

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	18253	1731	52174	5119	111427	77506	53.3	55.5
002	39349	3602	15651	1250	74893	98593	54.3	57.4
003	49480	4783	23077	2138	82331	108735	53.3	54.0
004	45860	4253	17493	1410	76734	105101	54.2	54.9
005	45174	4172	21478	1803	80738	104432	53.7	55.8
006	40176	3663	23811	2033	83057	99417	52.4	54.6
007	39783	3612	22261	1863	81518	99042	53.8	55.7
008	38147	3472	23991	2063	83231	97384	53.3	54.9
009	43175	3972	25045	2167	84305	102440	53.8	55.7
010	41026	3788	20430	1727	79670	100268	54.2	56.4
011	46567	4413	26518	2402	85777	105822	54.9	56.5
012	54584	5338	14986	1372	74233	113830	54.1	57.3
013	56164	5536	15098	1413	74349	115415	55.3	57.5
014	47397	4603	20100	1900	79345	106644	54.6	55.9

BS stadia distance: 348.2 meters
FS stadia distance: 347.0 meters
Length of section: .695 kilometers

Low scale el. diff.: 14.15110 meters
High scale el. diff.: 14.15105 meters
Mean elevation diff.: 14.15108 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 9 A HN (0228) To: 8 A HN (0229)

Date: 03/31/93 Begin: 09:18 End: 10:33 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: North at <10 km/hr

Collimation check(s):
Time: 07:45 BSCWL= 13267 STADIA= 1111 FSCWL= 13273 C= -.00698

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	10222	1099	53066	5222	112316	69472	65.6	71.1
002	21082	1839	18926	1629	78179	80330	64.6	69.3
003	20932	1834	48273	4570	107522	80184	64.6	65.7
004	16430	1363	46610	4388	105860	75680	63.7	65.2
005	21250	1802	39044	3582	98291	80501	64.1	65.9
006	25360	2218	38250	3501	97502	84615	66.2	65.7
007	30633	2775	25919	2298	85166	89881	64.5	64.2
008	37244	3438	30845	2798	90100	96501	64.5	65.2
009	28175	2532	40525	3774	99771	87426	65.5	64.1
010	26158	2317	31795	2863	91047	85405	64.5	65.6
011	38178	3530	23577	2083	82826	97426	66.4	66.2
012	40288	3760	23000	2034	82253	99538	64.4	65.0
013	40029	3729	27424	2474	86669	99270	64.9	65.7
014	36491	3369	32508	2986	91761	95743	65.2	66.1
015	32384	2956	33098	3030	92348	91631	64.7	65.4
016	35494	3259	16640	1380	75893	94748	68.6	70.3
017	53137	5129	24556	2267	83805	112386	66.0	69.2
018	33719	3297	33857	3291	93108	92970	66.7	69.3

BS stadia distance: 453.2 meters Low scale el. diff.: -2.03535 meters
FS stadia distance: 454.0 meters High scale el. diff.: -2.03550 meters
Length of section: .907 kilometers Mean elevation diff.: -2.03542 meters

*** This data was collected according to 1st order. Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 8 A HN (0229) To: 9 A HN (0228)

Date: 04/06/93 Begin: 08:00 End: 09:00 Time zone: Pacific Daylight
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: North at <10 km/hr

Collimation check(s):
Time: 08:00 BSCWL= 32589 STADIA= 3031 FSCWL= 32591 C= -.00220

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	32590	3031	48087	4583	107339	91841	46.3	46.2
002	16441	1410	45930	4353	105181	75691	46.5	47.4
003	29949	2623	31759	2804	91011	89199	47.0	47.8
004	31618	2782	38851	3498	98094	90859	47.5	48.3
005	20290	1630	43627	3990	102887	79548	47.6	48.4
006	19263	1530	39336	3538	98579	78504	47.4	48.9
007	37064	3318	19375	1546	78631	96317	47.6	48.6
008	35452	3151	37458	3358	96705	94698	47.6	48.8
009	22553	1872	27129	2338	86386	81808	48.1	48.9
010	40467	3661	24488	2048	83730	99708	49.0	49.8
011	44580	4078	10363	1407	69622	103837	48.6	49.6
012	49180	4609	10631	1358	69875	108424	49.2	49.6
013	28785	2675	43309	4141	102563	88038	49.8	50.8
014	37833	3642	17337	1585	76586	97079	50.2	51.4
015	53285	5231	14079	1304	73331	112536	51.8	53.3
016	23678	2300	30554	2984	89803	82926	52.0	53.0

BS stadia distance: 465.7 meters Low scale el. diff.: 2.03575 meters
FS stadia distance: 466.5 meters High scale el. diff.: 2.03450 meters
Length of section: .932 kilometers Mean elevation diff.: 2.03513 meters

*** This data was collected according to 1st order. Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 8 A HN (0229) To: 7 A HN (0230)

Date: 03/31/93 Begin: 11:33 End: 13:00 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: North at <10 km/hr

Collimation check(s):
Time: 07:45 BSCWL= 13267 STADIA= 1111 FSCWL= 13273 C= -.00698

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	34400	3223	52133	4977	111378	93643	69.6	73.5
002	18722	1763	52122	5107	111377	77978	71.5	73.4
003	13918	1227	34336	3272	93580	73162	72.2	72.7
004	24453	2235	40330	3820	99586	83709	72.7	73.1
005	20820	1881	44150	4219	103393	80063	72.6	73.7
006	19446	1743	48528	4653	107786	78703	73.0	74.1
007	14342	1230	46036	4408	105281	73584	72.1	73.8
008	17632	1555	44000	4202	103257	76889	71.6	73.1
009	22367	2028	41441	3926	100685	81610	71.2	70.7
010	23599	2140	37116	3500	96372	82853	71.7	73.4
011	24986	2296	38584	3661	97826	84226	72.0	73.5
012	24837	2273	38564	3638	97822	84099	71.8	72.0
013	22733	2058	37303	3518	96546	81975	72.8	74.7
014	25235	2311	39407	3741	98660	84488	69.7	72.8
015	25928	2377	42796	4048	102043	85174	72.4	74.0
016	21364	1910	42571	4035	101830	80622	72.6	74.8
017	18402	1642	42974	4096	102217	77647	72.6	75.4
018	15816	1378	45664	4360	104914	75068	72.4	75.0
019	22114	2007	39083	3692	98328	81361	72.3	75.6
020	25812	2382	37719	3571	96974	85071	72.1	77.0
021	27536	2551	37932	3586	97177	86776	72.0	73.9
022	25960	2389	33044	3101	92299	85213	74.0	75.4
023	29015	2685	33398	3105	92640	88252	71.5	75.2
024	28143	2603	32272	3006	91532	87404	74.1	76.7
025	46685	4423	15719	1341	74958	105921	73.7	75.2
026	45910	4467	23329	2209	82586	105167	72.6	74.2

BS stadia distance: 514.3 meters Low scale el. diff.: -19.01830 meters
FS stadia distance: 514.8 meters High scale el. diff.: -19.01945 meters
Length of section: 1.029 kilometers Mean elevation diff.: -19.01913 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 7 A HN (0230) To: 8 A HN (0229)

Date: 03/31/93 Begin: 15:42 End: 16:54 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: South at 10-25 km/hr

Collimation check(s):
Time: 07:45 BSCWL= 13267 STADIA= 1111 FSCWL= 13273 C= -.00698

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	17923	1622	44995	4322	104240	77171	71.5	71.7
002	16660	1503	50405	4903	109660	75912	70.8	72.1
003	37630	3450	31082	2775	90322	96872	70.7	71.2
004	40020	3612	20657	1682	79204	99268	70.7	71.7
005	37840	3423	20100	1660	79350	97095	70.4	70.9
006	42657	3938	13118	1640	72369	101907	70.5	71.6
007	49616	4650	16285	1314	75537	108866	71.4	72.7
008	59186	5524	18281	1425	77531	118439	70.5	71.7
009	51121	4700	21255	1713	80501	110369	70.2	70.2
010	47016	4302	19559	1552	78811	106269	70.4	71.2
011	42441	3899	18139	1462	77390	101693	69.8	70.4
012	50083	4690	19478	1629	78729	109336	70.0	70.2
013	57669	5492	15686	1290	74937	116918	69.7	69.8
014	56963	5432	21037	1838	80287	116213	69.9	70.8
015	57075	5352	12837	1622	72085	116324	70.0	71.4
016	50800	4928	10393	1182	69644	110053	71.0	72.0
017	47644	4621	27912	2657	87164	106892	70.5	71.2
018	33055	3214	33815	3282	93065	92304	70.2	70.6

BS stadia distance: 510.8 meters Low scale el. diff.: 19.01825 meters
FS stadia distance: 511.0 meters High scale el. diff.: 19.01875 meters
Length of section: 1.022 kilometers Mean elevation diff.: 19.01850 meters

*** This data was collected according to 1st order. Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 7 A HN (0230) To: 5 PDI (0231)

Date: 03/31/93 Begin: 14:04 End: 15:02 Time zone: Pacific Standard
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: South at 10-25 km/hr

Collimation check(s):
Time: 07:45 BSCWL= 13267 STADIA= 1111 FSCWL= 13273 C= -.00698

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	14521	1302	50510	4899	109755	73767	72.7	74.2
002	19668	1795	54199	5252	113455	78924	72.1	73.0
003	21818	1991	39857	3787	99100	81061	71.8	71.9
004	25789	2214	33541	2992	92802	85053	71.2	71.9
005	36382	3339	20519	1762	79761	95623	74.2	74.6
006	45790	4278	19890	1690	79151	105054	72.8	73.0
007	47000	4409	26762	2372	86000	106238	73.3	73.3
008	47137	4376	23237	1976	82500	106403	74.4	76.1
009	50144	4682	31970	2865	91205	109383	74.3	74.7
010	37990	3465	32967	2968	92233	97254	74.0	74.8
011	27444	2418	42676	3942	101916	86681	74.7	76.0
012	23941	2067	55101	5187	114366	83205	72.7	73.0
013	18829	1583	53548	5057	112790	78071	72.0	72.2
014	19544	1681	51970	4912	111232	78803	73.0	73.3
015	16558	1343	28398	2532	87640	75796	74.8	75.4
016	34642	3419	29807	2941	89059	93894	78.3	74.2

BS stadia distance: 427.8 meters Low scale el. diff.: -5.38775 meters
FS stadia distance: 427.6 meters High scale el. diff.: -5.38775 meters
Length of section: .855 kilometers Mean elevation diff.: -5.38775 meters

*** This data was collected according to 1st order. Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 5 PDI (0231) To: 7 A HN (0230)

Date: 04/14/93 Begin: 09:24 End: 10:29 Time zone: Pacific Daylight
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: 21.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: North at <10 km/hr

Collimation check(s):
Time: 07:34 BSCWL= 39235 STADIA= 3659 FSCWL= 39238 C= -.00284

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	23507	2151	31967	2989	91223	82762	61.2	65.2
002	43825	4155	18925	1663	78170	103070	59.7	62.0
003	48621	4617	20566	1810	79819	107878	59.4	61.4
004	50927	4843	20373	1790	79617	110170	58.9	60.8
005	51344	4847	24316	2152	83573	110601	58.6	60.4
006	44834	4189	28186	2513	87427	104074	59.0	60.8
007	37139	3430	35557	3270	94813	96395	60.0	61.4
008	32621	3002	41440	3873	100682	91866	61.0	61.6
009	24795	2202	45111	4260	104366	84051	59.4	60.8
010	27272	2455	45365	4263	104615	86520	60.0	61.4
011	30121	2770	44668	4221	103926	89377	60.0	61.2
012	19845	1711	42605	3985	101849	79087	60.3	62.1
013	19344	1668	39918	3728	99172	78598	61.3	63.2
014	30709	2781	32501	2953	91747	89953	64.7	66.4
015	37670	3483	25324	2258	84581	96926	65.7	67.8
016	55226	5311	12381	1011	71626	114474	66.9	69.5
017	47094	4609	24699	2376	83952	106347	64.6	68.0
018	38813	3817	22047	2135	81296	98063	65.4	68.0

BS stadia distance: 425.9 meters Low scale el. diff.: 5.38790 meters
FS stadia distance: 426.0 meters High scale el. diff.: 5.38790 meters
Length of section: .852 kilometers Mean elevation diff.: 5.38790 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 5 PDI (0231) To: 6 PDI (0232)

Date: 04/12/93 Begin: 07:30 End: 08:53 Time zone: Pacific Daylight
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: North at 10-25 km/hr

Collimation check(s):
Time: 07:29 BSCWL= 40836 STADIA= 3871 FSCWL= 40842 C= -.00708

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	15597	1404	47365	4592	106612	74843	46.4	45.9
002	31425	2818	38445	3510	97706	90687	45.6	45.8
003	35355	3170	25001	2149	84237	94590	47.4	46.5
004	43953	4032	31240	2753	90500	103208	48.4	48.2
005	42325	3883	35369	3191	94608	101563	48.3	48.3
006	31135	2783	42356	3900	101611	90393	48.8	47.9
007	26310	2270	47174	4352	106414	85555	49.0	48.6
008	31309	2761	46648	4278	105907	90564	49.4	48.8
009	28081	2412	47176	4328	106419	87322	49.5	49.3
010	27552	2360	49751	4572	109006	86807	49.4	49.0
011	25170	2107	52453	4839	111696	84416	50.1	50.6
012	12315	1620	56169	5227	115431	71577	50.4	51.6
013	14208	1100	53915	5070	113157	73447	50.6	50.8
014	13349	1669	49778	4630	109037	72609	50.9	51.6
015	13370	1662	53071	4971	112314	72610	51.9	52.6
016	19069	1650	47675	4501	106932	78327	51.3	52.7
017	32743	3156	39403	3832	98649	91991	50.8	51.4
018	36450	3563	26004	2527	85256	95704	51.6	53.3

BS stadia distance: 559.2 meters Low scale el. diff.: -15.46385 meters
FS stadia distance: 558.8 meters High scale el. diff.: -15.46395 meters
Length of section: 1.118 kilometers Mean elevation diff.: -15.46390 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 6 PDI (0232) To: 5 PDI (0231)

Date: 04/13/93 Begin: 10:48 End: 12:10 Time zone: Pacific Daylight
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: North at 10-25 km/hr

Collimation check(s):
Time: 07:27 BSCWL= 35757 STADIA= 3268 FSCWL= 35767 C= -.00814

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	17113	1469	16812	1432	76069	76366	57.2	59.2
002	46920	4443	20295	1775	79538	106164	57.6	59.8
003	51704	4880	17562	1470	76819	110961	58.3	59.2
004	48158	4523	18333	1550	77577	107400	58.8	60.1
005	51948	4898	14275	1121	73536	111206	59.1	61.0
006	49562	4673	19088	1638	78324	108800	59.2	61.0
007	51386	4850	19991	1699	79256	110652	62.0	63.3
008	45906	4332	22569	2500	81816	105154	59.2	60.8
009	44329	4187	28565	2612	87823	103587	57.9	59.3
010	42792	4022	25466	2285	84708	102036	59.1	60.8
011	38073	3542	26144	2339	85404	97332	61.2	62.1
012	35977	3352	31605	2922	90848	95220	60.5	60.6
013	40331	3778	28961	2647	88219	99587	61.0	61.4
014	38637	3612	27453	2488	86696	97880	60.7	60.8
015	38137	3552	28422	2586	87675	97393	61.3	61.8
016	36902	3447	33006	3048	92254	93355	63.4	63.9
017	34101	3172	35190	3268	94447	90501	63.0	63.9
018	31259	2893	40345	3798	99590	87332	63.8	65.0
019	28072	2557	40971	3848	100231	88382	62.6	64.7
020	29137	2660	33315	3082	92557	93841	59.7	61.0
021	34584	3196	29947	2745	89203	102755	59.4	62.0
022	43511	4087	28824	2605	88072	105057	63.2	65.3
023	45804	4497	20502	1973	79754	87755	62.0	64.3
024	28506	2800	35930	3537	95179			

BS stadia distance: 576.8 meters Low scale el. diff.: 15.46390 meters
FS stadia distance: 577.2 meters High scale el. diff.: 15.46335 meters
Length of section: 1.154 kilometers Mean elevation diff.: 15.46363 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 6 PDI (0232) To: 7 PDI (0233)

Date: 04/12/93 Begin: 09:38 End: 10:55 Time zone: Pacific Daylight
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: North at 10-25 km/hr

Collimation check(s):
Time: 07:29 BSCWL= 40836 STADIA= 3871 FSCWL= 40842 C= -.00708

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	15237	1293	47605	4543	106845	74477	54.5	56.4
002	21654	1942	47582	4535	106841	80911	55.1	56.8
003	21671	1930	46623	4420	105862	80909	54.6	56.2
004	19151	1683	45788	4343	105047	78411	56.6	59.2
005	20389	1797	45500	4317	104739	79625	57.2	59.2
006	25860	2809	43020	4071	102280	85121	55.2	56.2
007	24851	2240	42294	3978	101536	84094	54.0	54.8
008	25982	2349	41695	3910	100953	85240	55.1	56.8
009	26100	2358	41303	3879	100544	85340	57.2	60.0
010	25044	2253	40046	3751	99304	84303	58.2	60.8
011	24739	2230	40274	3793	99514	83976	58.5	62.0
012	25780	2329	42725	4018	101982	85038	57.5	60.0
013	28010	2549	39719	3728	98959	87249	58.2	60.2
014	23640	2120	50396	4777	109658	82900	58.4	60.6
015	30081	2764	36228	3398	95472	89324	59.1	61.9
016	21935	1935	40709	3812	99968	81196	59.7	61.8
017	28450	2596	40807	3842	100051	87693	60.0	61.8
018	27126	2461	44654	4197	103908	86384	58.1	60.2
019	28977	2646	45204	4273	104445	88221	59.0	60.8
020	32617	3002	43403	4083	102661	91878	58.0	60.6
021	27967	2723	34176	3349	93424	87215	59.5	62.7
022	29751	2906	34335	3364	93589	89005	57.7	60.8

BS stadia distance: 493.3 meters Low scale el. diff.: -18.95370 meters
FS stadia distance: 493.9 meters High scale el. diff.: -18.95360 meters
Length of section: .987 kilometers Mean elevation diff.: -18.95365 meters

*** This data was collected according to 1st order. Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 7 PDI (0233) To: 6 PDI (0232)

Date: 04/13/93 Begin: 09:09 End: 10:13 Time zone: Pacific Daylight
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: North at 10-25 km/hr

Collimation check(s):
Time: 07:27 BSCWL= 35757 STADIA= 3268 FSCWL= 35767 C= -.00814

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	40652	3760	21551	1861	80812	99913	53.7	57.2
002	42306	3872	21994	1823	81231	101543	52.8	54.6
003	43266	3949	22440	1868	81697	102522	55.0	57.2
004	43825	4025	20663	1700	79901	103067	55.0	56.1
005	47219	4331	29905	2596	89165	106481	55.1	56.3
006	54207	5062	24691	2097	83929	113446	54.7	57.2
007	45520	4200	20577	1707	79837	104783	54.7	56.7
008	43474	3992	23208	1972	82441	102710	55.5	58.3
009	45139	4167	22448	1898	81712	104401	56.0	58.2
010	44696	4118	24831	2128	84070	103935	54.8	56.6
011	49666	4617	21727	1837	80986	108928	56.2	59.2
012	46926	4406	16643	1371	75882	106166	56.0	56.8
013	46366	4418	20051	1793	79309	105525	57.6	59.3
014	46889	4443	21172	1892	80415	106133	57.7	59.0
015	47750	4523	17155	1476	76415	107010	56.0	59.2
016	42358	4177	22150	2153	81398	101607	56.9	59.8

BS stadia distance: 489.0 meters Low scale el. diff.: 18.95265 meters
FS stadia distance: 486.8 meters High scale el. diff.: 18.95350 meters
Length of section: .976 kilometers Mean elevation diff.: 18.95308 meters

*** This data was collected according to 1st order, Class I, standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 7 PDI (0233) To: 8 PDI (0234)

Date: 04/12/93 Begin: 11:32 End: 12:50 Time zone: Pacific Daylight
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: North at 10-25 km/hr

Collimation check(s):
Time: 07:29 BSCWL= 40836 STADIA= 3871 FSCWL= 40842 C= -.00708

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	25019	2252	37443	3497	96702	84280	60.6	63.8
002	26954	2447	39469	3689	98708	86196	60.1	62.0
003	26922	2418	41529	3880	100784	86179	56.9	60.4
004	25805	2312	42150	3940	101390	85046	55.2	58.3
005	26650	2398	41040	3839	100302	85910	57.6	59.7
006	24377	2161	40336	3762	99578	83616	60.0	62.1
007	24224	2150	40281	3758	99537	83481	60.0	61.8
008	25695	2291	42161	3940	101397	84934	58.8	60.3
009	28117	2549	42950	4028	102214	87379	59.4	61.0
010	25852	2323	44209	4169	103444	85090	58.7	59.8
011	29519	2665	41580	3859	100845	88780	59.0	60.8
012	25178	2252	45033	4230	104274	84418	57.8	59.7
013	29794	2717	39876	3728	99140	88054	59.5	61.0
014	26602	2412	43687	4112	102929	85847	60.5	61.4
015	30609	2803	41620	3898	100878	89865	60.4	62.2
016	21979	1952	31493	2907	90751	81235	61.4	64.5
017	28796	2783	34436	3358	93684	88043	63.2	66.5
018	20515	1946	28780	2753	88033	79768	63.2	68.2

BS stadia distance: 434.9 meters Low scale el. diff.: -12.27330 meters
FS stadia distance: 436.3 meters High scale el. diff.: -12.27345 meters
Length of section: .871 kilometers Mean elevation diff.: -12.27338 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 8 PDI (0234) To: 7 PDI (0233)

Date: 04/13/93 Begin: 07:27 End: 08:17 Time zone: Pacific Daylight
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: North at 10-25 km/hr

Collimation check(s):
Time: 07:27 BSCWL= 35757 STADIA= 3268 FSCWL= 35767 C= -.00814

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	35757	3268	24445	2144	83704	95017	46.0	47.7
002	41205	3780	22689	1918	81925	100441	47.0	47.7
003	42406	3887	23860	2027	83131	101676	47.7	48.1
004	43589	3963	21342	1737	80573	102820	47.6	48.2
005	44137	4041	22720	1902	81987	103403	47.4	49.2
006	44520	4080	22007	1829	81241	103750	47.9	48.8
007	43502	3971	21666	1782	80931	102767	47.8	48.4
008	43020	3917	20979	1706	80215	102256	48.4	49.7
009	44299	4048	21384	1750	80647	103560	48.5	49.5
010	42638	3892	21721	1808	80956	101874	48.6	49.5
011	42882	3912	22472	1870	81739	102148	49.6	50.7
012	40628	3797	30668	2786	89906	99866	49.7	50.4
013	36173	3508	28540	2749	87795	95429	50.6	51.0
014	34789	3362	29595	2858	88842	94034	50.6	50.9

BS stadia distance: 446.4 meters Low scale el. diff.: 12.27285 meters
FS stadia distance: 446.4 meters High scale el. diff.: 12.27245 meters
Length of section: .893 kilometers Mean elevation diff.: 12.27265 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 8 PDI (0234) To: 9 PDI (0235)

Date: 04/12/93 Begin: 13:38 End: 15:13 Time zone: Pacific Daylight
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: North at >25 km/hr

Collimation check(s):
Time: 07:29 BSCWL= 40836 STADIA= 3871 FSCWL= 40842 C= -.00708

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	29530	2778	35172	3343	94414	88774	58.8	62.0
002	26118	2368	41927	3940	101190	85377	59.2	62.0
003	29552	2688	41581	3892	100824	88795	59.2	62.3
004	27911	2547	42506	3988	101761	87167	60.6	62.5
005	27523	2500	40883	3833	100121	86762	52.0	54.2
006	28040	2562	40535	3812	99794	87303	61.3	63.6
007	27000	2443	39412	3690	98654	86243	59.4	63.2
008	25296	2257	44240	4146	103502	84556	61.0	63.2
009	31333	2876	44949	4233	104191	90579	59.8	63.2
010	31363	2878	41357	3883	100613	90618	60.0	62.2
011	30355	2780	38841	3643	98079	89594	59.1	60.8
012	27625	2517	40359	3781	99620	86881	61.4	62.3
013	28608	2608	39793	3727	99035	87848	60.7	64.1
014	26843	2430	45002	4247	104258	86098	63.2	65.0
015	32144	2965	41260	3877	100504	91388	60.6	63.7
016	28075	2540	41542	3878	100799	87332	61.1	65.0
017	28795	2629	42057	3967	101300	88038	60.0	64.4
018	32191	2975	39742	3721	99003	91448	61.3	63.8
019	31218	2889	41504	3922	100752	90462	61.2	63.9
020	35252	3257	36218	3361	95476	94506	61.2	63.5
021	30289	2748	37987	3507	97228	89526	61.5	64.6
022	32424	2963	33800	3117	93057	91682	62.4	65.0
023	37193	3448	30578	2803	89817	96433	61.3	64.7
024	38353	3595	35323	3292	94578	97609	62.2	65.0
025	28876	2812	29093	2837	88341	88124	53.0	60.1
026	29808	2929	29623	2911	88876	89059	62.4	65.2

BS stadia distance: 606.8 meters Low scale el. diff.: -11.67845 meters
FS stadia distance: 605.9 meters High scale el. diff.: -11.67925 meters
Length of section: 1.213 kilometers Mean elevation diff.: -11.67885 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 9 PDI (0235) To: 8 PDI (0234)

Date: 04/14/93 Begin: 07:34 End: 08:37 Time zone: Pacific Daylight
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: North at <10 km/hr

Collimation check(s):
Time: 07:34 BSCWL= 39235 STADIA= 3659 FSCWL= 39238 C= -.00284

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	39237	3659	36491	3390	95745	98491	46.7	47.8
002	23886	1981	36492	3221	95735	83130	49.8	51.4
003	33940	2988	28284	2430	87550	93207	52.0	51.9
004	37098	3309	32940	2898	92193	96338	52.4	52.8
005	43339	3940	25060	2115	84320	102598	52.6	53.8
006	43669	3957	23529	1935	82761	102905	53.0	54.2
007	42106	3818	22096	1807	81356	101361	53.4	54.2
008	43229	3938	23011	1912	82250	102469	54.3	55.2
009	41790	3791	23451	1977	82716	101055	54.3	56.2
010	41846	3785	25302	2132	84541	101085	55.8	56.9
011	43781	3962	22229	1816	81488	103039	57.5	59.1
012	43039	3902	22834	1880	82073	102282	57.2	58.9
013	44271	4018	23158	1911	82425	103540	58.6	60.3
014	44367	4070	23026	1928	82255	103601	57.6	58.3
015	44909	4120	27914	2433	87179	104177	59.4	60.2
016	39651	3601	20782	1729	80019	98892	59.7	61.4

BS stadia distance: 609.1 meters
FS stadia distance: 606.6 meters
Length of section: 1.216 kilometers

Low scale el. diff.: 11.67795 meters
High scale el. diff.: 11.67870 meters
Mean elevation diff.: 11.67833 meters

*** This data was collected according to 1st order. Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: 9 PDI (0235) To: G 408 (0236)

Date: 04/13/93 Begin: 13:58 End: 15:40 Time zone: Pacific Daylight
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Partly cloudy (25%-75% clouds) Wind from the: North at <10 km/hr

Collimation check(s):
Time: 07:27 BSCWL= 35757 STADIA= 3268 FSCWL= 35767 C= -.00814

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	39255	3762	23406	2184	82659	98507	61.4	65.8
002	42820	4032	22737	2013	81988	102069	62.4	65.7
003	41844	3893	24034	2110	83290	101096	62.5	65.6
004	44920	4183	23298	2003	82542	104169	61.3	63.2
005	41665	3857	26461	2339	85718	100922	62.4	64.3
006	47488	4421	23129	2000	82379	106735	63.4	64.3
007	44132	4083	20616	1748	79867	103385	63.7	64.3
008	52339	4892	14760	1128	74003	111584	64.2	65.2
009	54923	5157	10900	1427	70151	114171	63.6	64.6
010	48771	4558	12521	1568	71770	108020	67.2	69.2
011	49359	4602	10383	1343	69635	108615	67.0	69.1
012	45184	4262	20258	1762	79511	104434	67.2	69.3
013	42961	4031	24054	2145	83310	102213	64.1	66.8
014	42395	3973	19898	1709	79144	101644	62.4	65.5
015	45089	4241	25149	2270	84403	104340	64.6	66.9
016	46468	4382	21755	1921	81003	105714	62.6	65.7
017	41689	3902	21845	1912	81100	100941	61.8	65.7
018	43221	4071	21689	1914	80941	102471	65.4	67.3
019	42116	3970	26149	2373	85399	101363	67.3	71.0
020	46449	4383	19945	1723	79190	105695	67.1	69.4
021	42949	4059	23769	2143	83025	102207	67.0	69.7
022	42636	3993	16892	1393	76134	101878	63.9	67.2
023	43996	4153	26913	2462	86169	103248	65.0	68.9
024	43570	4100	20108	1747	79360	102817	64.8	68.2
025	45409	4292	21554	1903	80808	104659	67.6	70.0
026	41357	3951	19402	1773	78647	100605	65.8	68.3
027	36541	3588	29101	2852	88351	95792	66.1	66.4
028	35873	3519	30759	3001	90007	95122	63.9	64.9

BS stadia distance: 708.0 meters Low scale el. diff.: 31.69670 meters
FS stadia distance: 709.0 meters High scale el. diff.: 31.69560 meters
Length of secti n: 1.417 kilometers Mean elevation diff.: 31.69615 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: G 408 (0236) To: 9 PDI (0235)

Date: 04/15/93 Begin: 07:22 End: 08:51 Time zone: Pacific Daylight
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Overcast (>75% clouds) Wind from the: North at <10 km/hr

Collimation check(s):
Time: 07:22 BSCWL= 19354 STADIA= 1669 FSCWL= 19359 C= -.00470

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	19356	1668	53419	5078	112675	78610	51.0	50.7
002	22140	1959	46481	4382	105727	81388	50.9	50.9
003	27158	2452	46733	4402	105986	86409	51.1	51.1
004	22949	2010	45433	4271	104683	82194	50.9	51.0
005	19673	1717	42264	3988	101515	78925	51.6	51.4
006	21757	1872	47934	4481	107183	81002	51.7	51.7
007	20426	1752	46079	4322	105332	79677	50.7	50.8
008	23036	1992	45572	4240	104820	82282	51.4	51.1
009	17962	1479	41046	3802	100305	77217	51.0	51.3
010	16585	1338	46368	4322	105614	75827	51.4	51.5
011	19693	1648	45227	4213	104485	78948	52.2	52.5
012	19862	1657	46667	4320	105909	79103	51.7	52.0
013	20372	1736	45025	4220	104284	79628	51.4	51.6
014	17259	1430	52239	4941	111483	76502	50.9	51.6
015	18592	1593	48002	4539	107260	77847	51.3	52.2
016	12938	1002	47051	4413	106297	72184	51.8	52.4
017	15238	1278	47080	4443	106336	74493	52.9	53.2
018	17995	1521	46737	4420	105980	77236	53.2	53.9
019	21668	1956	41784	3959	101038	80922	54.2	54.5
G20	24978	2250	35033	3252	94280	84225	55.4	55.4
021	19633	1720	42979	4052	102233	78887	55.5	55.2
022	24736	2183	40816	3799	100059	83983	53.5	53.7
023	22576	1930	44080	4068	103335	81829	53.6	53.2
024	23208	2030	42595	3961	101836	82450	54.2	54.1
025	24719	2137	50502	4731	109763	83979	54.4	54.6
026	25781	2464	37055	3583	96304	85030	56.1	56.0

BS stadia distance: 710.6 meters Low scale el. diff.: -31.69555 meters
FS stadia distance: 708.8 meters High scale el. diff.: -31.69725 meters
Length of section: 1.419 kilometers Mean elevation diff.: -31.69640 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: G 408 (0236) To: H 408 (0237)

Date: 04/14/93 Begin: 12:47 End: 15:01 Time zone: Pacific Daylight
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: North at 10-25 km/hr

Collimation check(s):
Time: 07:34 BSCWL= 39235 STADIA= 3659 FSCWL= 39238 C= -.00284

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	32382	3042	34865	3291	94116	91634	67.3	72.2
002	29976	2794	42094	4008	101344	89228	68.5	72.4
003	21011	1872	43469	4117	102717	80262	67.8	71.7
004	21815	1966	42322	4007	101574	81064	68.3	71.4
005	22551	2041	42770	4062	102022	81801	70.5	73.8
006	22673	2100	38121	3652	97371	81925	69.1	71.4
007	23335	2122	40296	3816	99545	82585	70.2	72.3
008	22664	2057	39032	3693	98288	81916	70.8	72.6
009	21428	1924	38153	3606	97402	80679	67.5	71.7
010	29100	2701	36080	3401	95329	88347	71.2	75.6
011	32983	3083	34343	3214	93593	92231	71.0	73.4
012	17746	1553	44282	4211	103534	76998	70.5	74.7
013	21446	1914	46364	4393	105614	80698	69.1	72.7
014	24511	2233	38723	3649	97970	83763	71.2	74.2
015	17927	1569	41704	3960	100954	77174	70.5	73.0
016	20307	1821	40896	3881	100150	79559	72.3	75.4
017	21343	1938	42078	3994	101328	80596	70.4	74.7
018	22599	2048	41066	3893	100318	81848	69.3	71.4
019	28185	2673	38614	3724	97863	87434	70.6	74.8
020	29357	2737	36775	3477	96024	88603	72.5	75.2
021	28823	2662	34184	3175	93438	88076	70.6	75.4
022	28281	2606	35598	3336	94850	87533	67.6	71.5
023	28969	2672	36198	3392	95445	88218	70.2	74.1
024	29196	2696	38487	3613	97736	88446	71.8	73.7
025	23411	2129	41344	3926	100593	82656	71.1	73.2
026	22125	1998	41360	3909	100610	81378	70.2	74.5
027	23302	2121	39821	3787	99071	82549	72.0	75.3
028	21892	1973	40674	3848	99927	81144	69.6	70.8
029	21858	1971	41240	3907	100487	81108	70.6	72.3
030	23233	2107	37626	3543	96879	82483	71.3	72.6
031	25252	2306	35975	3371	95225	84500	69.3	71.2
032	29150	2703	39151	3700	98402	88399	73.1	76.0
033	278[illegible]	2572	38404	3651	97654	87125	70.2	73.3
034	23933	2172	43367	4132	102617	83186	72.3	74.2
035	26894	2474	41897	3975	101146	86143	73.8	76.4
036	24400	2232	40178	3805	99428	83649	71.8	73.2
037	33491	3136	48031	4600	107279	92741	71.8	74.7
038	18484	1593	47398	4487	106646	77731	71.8	74.0
039	51771	5075	22844	2183	82093	111019	72.6	76.7

040 45229 4484 32224 3180 91475 104480 72.5 74.9

BS stadia distance: 802.0 meters
FS stadia distance: 800.1 meters
Length of section: 1.602 kilometers

Low scale el. diff.: -26.85705 meters
High scale el. diff.: -26.85740 meters
Mean elevation diff.: -26.85723 meters

*** This data was collected according to 1st order, Class I standards ***

Line: L25411 Part: 1 State: NV Levelman: JMV

From: H 408 (0237) To: G 408 (0236)

Date: 04/14/93 Begin: 15:25 End: 17:19 Time zone: Pacific Daylight
Level: Zeiss/Jena NI-002 Serial number: 460896 Micrometer: Yes
Average height of instrument: 168 cm Upper temperature probe height: 140 cm
Temperature probe units: Fahrenheit Lower temperature probe height: 40 cm
Rod A: Kern invar Serial number: 183157 Rod graduations: Half centimeter
Rod B: Kern invar Serial number: 183161 Matching rod scales: Yes
Mean optimum temperature for the rod pair: -3.2 degrees Centigrade
Sky: Clear (<25% clouds) Wind from the: North at 10-25 km/hr

Collimation check(s):
Time: 07:34 BSCWL= 39235 STADIA= 3659 FSCWL= 39238 C= -.00284

SETUP	BSCWL	BSSTAD	FSCWL	FSSTAD	FSCWH	BSCWH	UTEMP	LTEMP
001	32224	3180	45233	4484	104483	91474	71.7	72.9
002	22728	2181	51655	5058	110906	81978	72.7	74.8
003	40629	3830	13863	1142	73111	99872	72.0	72.8
004	40728	3863	25802	2368	85054	99978	71.2	75.6
005	41879	3930	22692	2022	81940	101129	71.1	73.2
006	42536	3993	20269	1757	79517	101789	69.5	72.3
007	41659	3906	24200	2179	83450	100907	73.8	75.0
008	38918	3638	26130	2358	85384	98168	72.8	74.1
009	37341	3470	26292	2368	85541	96590	71.4	74.4
010	39460	3661	18845	1608	78101	98714	74.8	75.6
011	44938	4193	18838	1578	78086	104187	74.2	76.1
012	43330	4046	19829	1690	79079	102580	73.0	75.1
013	45849	4292	19010	1612	78260	105097	71.8	74.5
014	42501	3957	26000	2317	85249	101752	72.0	73.8
015	38047	3501	27606	2457	86853	97297	71.5	72.7
016	37212	3440	29129	2628	88378	96465	74.2	75.8
017	36048	3362	27065	2459	86318	95300	73.9	75.4
018	38002	3543	22185	1950	81440	97253	73.8	73.8
019	45317	4233	17679	1467	76931	104567	71.5	73.8
020	46053	4293	14504	1143	73751	105300	74.1	76.1
021	45440	4240	17752	1470	77004	104689	73.0	75.1
022	45666	4273	19796	1685	79040	104914	72.7	73.1
023	54026	5117	19061	1619	78314	113280	72.2	73.3
024	36121	3318	33581	3051	92826	95371	70.4	71.0
025	38485	3542	22499	1942	81744	97734	71.8	73.3
026	45560	4258	22520	1950	81770	104810	69.2	70.3
027	47840	4450	14323	1108	73578	107096	72.0	72.4
028	48344	4493	17506	1429	76758	107594	72.9	73.3
029	47513	4405	10921	1418	70170	106762	72.2	73.2
030	29266	2733	26755	2470	86008	88516	71.2	73.0
031	37873	3716	30309	2955	89559	97122	71.8	72.7
032	32397	3176	34934	3428	94185	91641	71.9	72.8

BS stadia distance: 802.7 meters
FS stadia distance: 802.6 meters
Length of section: 1.605 kilometers

Low scale el. diff.: 26.85710 meters
High scale el. diff.: 26.85690 meters
Mean elevation diff.: 26.85700 meters

*** This data was collected according to 1st order, Class I standards ***

INFORMATION ONLY

GPS data (for quadrilateral surveys) calibration (i.e. check against known baseline) for GPS receivers - data and computations, 11/90 - 07/91

TRIMVEC GPS RELATIVE POSITIONING SOLUTION SUMMARY: VERSION 90.06Z

FIXED SOLUTION OUTPUT FILE: c:\tnl\postout\00140961.fix

STATION 1: Station ID: 0500 Session #: 096-1 Apr 6, 1991 21:12
Data-logging start time = 21:16 Data-logging stop time = 03:39

STATION 2: Station ID: 1014 Session #: 096-1 Apr 6, 1991 21:12
Data-logging start time = 21:17 Data-logging stop time = 03:39

STATION COORDINATES:

Sta	Ant (m)	Latitude	Longitude	Hgt (m)
1	1.644	39:43'30.43417" N	105:07'09.20018" W	1696.800
2 [FIX]	1.753	39:43'30.29933" N	105:07'30.75921" W	1711.061

Origin of station 1 coordinates : Trimvec pseudo range solution

SOLUTION SUMMARY:
Epochs/Rejected: 237/1 Epoch interval: 150 (s) Epoch increment: 5 (epochs)
Solution rms: 0.042 (cycles) RDOP: 0.030 (meters/cycle)
dx: -500.039 dy: 120.992 dz: 5.891 dh: 14.261 (m)
Slope distance: 514.5025 [0.002] (m)
Fixed solution quality factor: 20.0

TEST AFTER SURVEY
RECEIVERS 244 & 245
EIC ON BASELINE -0.2MM

TRIMVEC GPS RELATIVE POSITIONING SOLUTION SUMMARY: VERSION 90.06Q

FIXED SOLUTION OUTPUT FILE: c:\tnl\postout\00140971.fix

STATION 1: Station ID: 0500 Session #: 097-1 Apr 7, 1991 21:08
Data-logging start time = 21:13 Data-logging stop time = 03:35

STATION 2: Station ID: 1014 Session #: 097-1 Apr 7, 1991 21:08
Data-logging start time = 21:13 Data-logging stop time = 03:35

STATION COORDINATES:

Sta	Ant (m)	Latitude	Longitude	Hgt (m)
1	1.544	39:43'30.44925" N	105:07'09.23993" W	1701.414
2 [FIX]	1.755	39:43'30.31341" N	105:07'30.82904" W	1715.679

Origin of station 1 coordinates : Trimvec pseudo range solution

SOLUTION SUMMARY:
Epochs/Rejected: 234/5 Epoch interval: 150 (s) Epoch increment: 5 (epochs)
Solution rms: 0.037 (cycles) RDOP: 0.030 (meters/cycle)
dx: -500.042 dy: 120.990 dz: 5.894 dn: 14.266 (m)
Slope distance: 514.5049 [0.002] (m)
Fixed solution quality factor: 29.2

TEST AFTER SURVEY
RECEIVERS 247 & 248
E/C ON BASELINE +2.2 MM

US DEPARTMENT OF COMMERCE - NOAA
NOS - NATIONAL GEODETIC SURVEY
ROCKVILLE MD 20852

CALIBRATION BASE LINE DATA
BASE LINE DESIGNATION: DENVER COL
PROJECT ACCESSION NUMBER: 15707
NEAREST TOWN: LAKEWOOD

37
QUAD: NM21051
COLORADO
JEFFERSON COUNTY

LIST OF ADJUSTED DISTANCES (DECEMBER 14, 1989)

FROM STATION	ELEV.(M)	TO STATION	ELEV.(M)	ADJ. DIST.(M) HORIZONTAL	ADJ. DIST.(M) MARK - MARK	STD. ERROR(MM)
0	1600.000	150	1601.899	150.0067	150.0187	0.1
0	1600.000	500	1607.497	499.9655	500.0217	0.3
0	1600.000	1014	1621.731	1014.2716	1014.5043	0.4
150	1601.899	500	1607.497	349.9588	350.0036	0.3
150	1601.899	1014	1621.731	864.2648	864.4923	0.4
500	1607.497	1014	1621.731	514.3058	514.5027	0.3

A TAPE CALIBRATION MONUMENT WAS SET AT 100 FOOT POINT OF THE BASELINE. REDUCED MARK TO MARK DISTANCE IS 100.005 FT.

DESCRIPTION OF DENVER BASE LINE
YEAR MEASURED: 1976
YEAR REMEASURED: 1989
CHIEF OF PARTY: LPB

THE BASELINE IS LOCATED WITHIN THE DENVER FEDERAL CENTER, WHICH IS LOCATED IN THE WEST SIDE OF LAKEWOOD AND IS ABOUT 12.0 KM (8.0 MI) WEST OF THE COLORADO CAPITOL BUILDING IN DENVER. THE BASELINE LIES ON THE SOUTH SIDE AND APPROXIMATELY PARALLEL TO U.S. HIGHWAY 6, WITHIN THE NORTHEAST CORNER OF THE DENVER FEDERAL CENTER FACILITIES.

THE BASELINE IS AN EAST-WEST LINE WITH THE O-METER POINT ON THE EAST END. IT CONSISTS OF THE O, 150, 500, AND 1014 METER POINTS WITH A 100-FOOT TAPE CALIBRATION STATION LOCATED BETWEEN AND IN LINE WITH THE O AND 150-METER POINTS. ALL MARKS ARE SURROUNDED BY 3 STANDARD NGS VERTICAL CONTROL DISKS OR SQUARE METAL PLATES, PLACED AT 120-DEGREE INTERVALS, FOR USE AS FOOTPADS FOR TRIPOD SET-UP.

TO REACH THE O-METER POINT FROM THE JUNCTION OF U.S. HIGHWAY 6 (WEST 6TH AVENUE) AND STATE ROUTE 391 (KIPLING STREET), IN LAKEWOOD, GO SOUTH ON KIPLING STREET FOR 0.3 KM (0.2 MI) TO A ROAD RIGHT LEADING TO GATE #2 OF THE DENVER FEDERAL CENTER. TURN RIGHT AND GO WEST FOR 0.08 KM (0.05 MI) TO THE GATE. PROCEED THROUGH THE GATE AND CONTINUE WESTERLY FOR 0.16 KM (0.1 MI) THE INTERSECTION OF FIRST STREET. TURN RIGHT AND GO NORTHWEST ON FIRST STREET FOR 0.24 KM (0.15 MI) TO THE ENTRANCE OF THE ELMER E. FRYAR U.S.ARMY RESERVE CENTER ON THE RIGHT. TURN RIGHT AND GO EAST 0.16 KM (0.1 MI) ACROSS THE PARKING LOT TO ITS EASTERN EDGE. PARK YOUR VEHICLE AND WALK APPROXIMATELY 60 M (197 FT) NORTH ACROSS THE LAWN TO THE O-METER POINT, IN THE CORNER OF THE CHAIN LINK FENCE.

THE O-METER POINT IS A STANDARD NGS HORIZONTAL CONTROL DISK STAMPED "O POINT 1976" SET IN THE TOP OF A 30 CM (12 IN) DIAMETER CONCRETE POST FLUSH WITH THE SURFACE OF THE GROUND. IT IS 3.4 M (11.2 FT) WEST OF A CHAIN LINK FENCE, 3.4 M (11.2 FT) WEST OF A WITNESS POST, 2.7 M (8.9 FT) SOUTH OF A CHAIN LINK FENCE, AND 2.7 M (8.9 FT) SOUTH OF A WITNESS POST.

THE 150-METER POINT IS A STANDARD NGS HORIZONTAL CONTROL DISK STAMPED "POINT 150" SET IN THE TOP OF A 30 CM (12 IN) DIAMETER CONCRETE POST FLUSH WITH THE SURFACE OF THE GROUND. IT IS 2.6 M (8.5 FT) SOUTH OF A CHAIN LINK FENCE AND 2.6 M (8.5 FT) SOUTH OF A WITNESS POST.

THE 500-METER POINT IS A STANDARD NGS HORIZONTAL CONTROL DISK STAMPED "POINT 500 1976" SET IN THE TOP OF A 30 CM (12 IN) DIAMETER CONCRETE POST FLUSH WITH THE SURFACE OF THE GROUND. IT IS 2.4 M (7.9 FT) SOUTH OF A CHAIN LINK FENCE AND 2.1 M (6.9 FT) SOUTH OF A WITNESS POST.

THE 1014-METER POINT IS A STANDARD NGS HORIZONTAL CONTROL DISK STAMPED "1014 POINT 1976" SET IN THE TOP OF A 30 CM (12 IN) DIAMETER CONCRETE POST FLUSH WITH THE SURFACE OF THE GROUND. IT IS 18.0 M (59.1 FT) EAST OF THE EAST RAIL OF A RAILROAD TRACK, 12.7 M (41.7 FT) EAST OF THE CENTERLINE OF AN ABANDONED ROAD AND CHAIN LINK FENCE GATE, 1.8 M (5.9 FT) SOUTH OF A CHAIN LINK FENCE, AND 0.6 M (2.0 FT) NORTH OF A WITNESS POST.

Summary of directory: c:\tnl\postout

Session	From	To	rms	rdop	ratio	distance(m)	ah1(m)	ah2(m)
096-1	0500	1014	0.042	0.030	19.990	514.503	1.644	1.753
097-1	0500	1014	0.037	0.030	29.210	514.505	1.644	1.755

TRIMBLE NAVIGATION, LTD
585 NORTH MARY AVENUE
SUNNYVALE, CALIFORNIA 94086
U.S.A.

PROGRAM TRIMVEC
GPS RELATIVE POSITIONING SOLUTION
VERSION 90.060

File name: c:\tnl\postout\00140961.fix
Coordinate system - WGS-84

Type solution: Double difference

Start date/time: 1991/ 4/ 6 21:16:60. day of year 96 tow 595020.
Stop date/time: 1991/ 4/ 7 0:11:30. day of year 97 tow 690.

Data available

station: 1
sat:19 |.....|
sat:11 |.....|
sat:18 |.....|
sat: 2 |.....|
sat: 6 |.....|
sat:15 |.....|
sat:13 |.....|

station: 2
sat:19 |.....|
sat:11 |.....|
sat:18 |.....|
sat: 2 |.....|
sat: 6 |.....|
sat:15 |.....|
sat:13 |.....|

Ephemeris file used: c:\tnl\posttest\05000961.eph

SATELLITE	IODE	HEALTH	WEEK NO.	TOW(sec)	URA(m)
19	201	0	586	594780.00	2.0
11	165	0	586	594780.00	2.8
18	73	0	586	594780.00	2.0
2	239	0	586	594720.00	2.0
6	197	0	586	598110.00	11.3
15	206	0	586	601440.00	5.7
13	16	0	587	210.00	2.0

Broadcast satellite clock correction values

prn	af0	af1	af2	toc
19	.1307437196D-04	.1250555215D-11	.0000000000D+00	.5935D+06
11	-.2717575990D-03	-.4206412996D-11	.0000000000D+00	.6012D+06
18	.6868038327D-05	.4547473509D-12	.0000000000D+00	.5935D+06
2	-.3103492782D-04	-.1591615728D-11	.0000000000D+00	.5976D+06
6	-.2428847365D-03	-.1421085472D-10	.0000000000D+00	.6007D+06
15	.5627935752D-04	.3410605132D-11	.0000000000D+00	.0000D+00
13	.5321390927D-03	.1705302566D-11	.0000000000D+00	.7200D+04

Message file for station 1

```
Reference Position - LOW ACCURACY:
Lat.  = 39:42'40.000" N  Long. = 105:07'11.000" W  Height = 1706.0  [meters]
Antenna height   =  1.6540  [meters]  (entered in the field in meters)
Long station name:  POINT 500

Receiver serial # = 244
Antenna serial  # = 70  (entered in the office)
NP  oftware = 4.30      SP Software = 4.20      Download Software = 2.05.00

Survey schedule:  Start time = 21:16  Stop time = 03:39
Data-logging start time = 21:16
Data-logging stop  time = 03:39

Tracking    SV  2   SV  6   SV 11   SV 12   SV 13   SV 14   SV 15   SV 18   SV 19
total L1     1523    1170     627     341     866       2     632     392     837
cont  L1      870     675     562     300     865       2     226     358     653

SV Selection mode = AUTOMATIC
Elevation mask    = 15      [degrees]  Minimum # of SVs  =  3

3D Position       Best PDOP Position [ 2.7]     Mean Position [2976]
Latitude:          39:43'30.30105" N             39:43'30.23401" N
Longitude:        105:07'09.35923" W            105:07'09.15415" W
Height [m]:              1691.0                        1689.8

2D Position       Best PDOP Position [ 1.5]     Mean Position [1640]
Latitude:          39:43'30.28901" N             39:43'30.32237" N
Longitude:        105:07'09.06691" W            105:07'09.98048" W

.....

Origin of station 1 coordinates : Trimvec pseudo range solution

  STATION (mark)  1

input data file  1 : c:\tnl\posttest\05000961.dat
 antenna height(m)      1.644

met values used:  pressure(mb)            1013.0
                  temperature(deg C)       20.0
                  relative humidity(%)     50.0

  x (m)      -1281599.818      lat  (dms)  N    39   43  30.43417
  y (m)      -4743492.119      elon (dms)  E   254   52  50.79982
  z (m)       4055643.048      wlon (dms)  W   105    7   9.20018
                               ht (m)          1696.7997

Message file for station 2
.....
Station ID: 1014  Session #: 096-1      Apr  6, 1991 21:12
Reference Position - LOW ACCURACY:
Lat.  = 39:42'40.000" N  Long. = 105:07'11.000" W  Height = 1706.0  [meters]
Antenna height   =  1.7620  [meters]  (entered in the field in meters)
Long station name:  1014 POINT

Receiver serial # = 245
Antenna serial  # = 71  (entered in the office)
NP   ftware = 4.30      SP Software = 4.20      Download Software = 2.05.00

Survey schedule:  Start time = 21:16  Stop time = 03:39
Data-logging start time = 21:17
Data-logging stop  time = 03:39

Tracking    SV  2   SV  6   SV 11   SV 12   SV 13   SV 14   SV 15   SV 18   SV 19
total L1     1527    1282     627     419     879     127     723     405     840
```

```
:V Selection mode = AUTOMATIC
.levation mask    = 15      [degrees]   Minimum # of SVs  =  3

D Position       Best PDOP Position [ 2.7]      Mean Position [3625]
atitude:          39:43'30.13541" N               39:43'30.11676" N
.or itude:       105:07'30.95874" W              105:07'30.73783" W
leight [m]:              1703.2                          1705.5

.D Position      Best PDOP Position [ 1.5]      Mean Position [1047]
.atitude:         39:43'30.07205" N               39:43'30.16792" N
.ongitude:       105:07'30.84399" W              105:07'30.75519" W

.....

  STATION (mark)  2

input data file  1 : c:\tnl\posttest\10140961.dat
 antenna height(m)      1.753

met values used:  pressure(mb)          1013.0
                  temperature(deg C)      20.0
                  relative humidity(%)    50.0

  . (m)      -1282099.857      lat  (dms)  N   39   43  30.29833
  y (m)      -4743371.127      elon (dms)  E  254   52  29.21079
  z (m)       4055648.939      wlon (dms)  W  105    7  30.78921
                               ht (m)          1711.0610

slope distance (m)          514.5025      sigma (m)      .002

                                      Forward          Backward
n  mal section azimuth (dms)    269 32  6.20       89 31 52.41
vertical angle (dms)              1 35  9.82        0 -1 39.94

 east(m)    north(m)    up(m)          -514.288          -4.173          14.241

Delta lat(dms)      0    0   -.13584
Delta lon(dms)      0    0 -21.58903
Delta ht(m)     14.2613

Vector covariance matrix (m**2) :
                                  dx                   dy                   dz

        dx     .450665316249D-05
        dy     .485295377691D-05   .174594408098D-04
        dz    -.220626791966D-05  -.822444018661D-05   .943145328835D-05

 correlations:

             dx      dy      dz    trop bias 1 bias 2 bias 3 bias 4 bias 5 bias 6
bias 7
    dx:   1.000
    dy    .547   1.000
    dz   -.338   -.641   1.000
  trop    .000    .000    .000   1.000
bias 1    .000    .000    .000    .000   1.000
bias 2    .000    .000    .000    .000    .000   1.000
bias 3    .000    .000    .000    .000    .000    .000   1.000
bias 4    .000    .000    .000    .000    .000    .000    .000   1.000
bias 5    .000    .000    .000    .000    .000    .000    .000    .000   1.000
bias 6    .000    .000    .000    .000    .000    .000    .000    .000    .000   1.000
bias 7    .000    .000    .000    .000    .000    .000    .000    .000    .000    .000
  1.000
```

				Main station 1 coordinates	
dx (m)	-500.039	.002	10.000	.000	.000
dy (m)	120.992	.004	.000	10.000	.000
dz (m)	5.891	.003	.000	.000	10.000
trop (%)	.000	.000	.000	.000	.000
bias 1 (cycle)	.000	.000	.000	.000	.000
bias 2 (cycle)	.000	.000	.000	.000	.000
bias 3 (cycle)	.000	.000	.000	.000	.000
bias 4 (cycle)	.000	.000	.000	.000	.000
bias 5 (cycle)	.000	.000	.000	.000	.000
bias 6 (cycle)	.000	.000	.000	.000	.000
bias 7 (cycle)	.000	.000	.000	.000	.000

Results of integer bias search:

.18283	3.65494	4.23945
0	0	0
0	0	0
0	-1	1
0	-1	1
0	0	0
0	0	0

Ratio sum-of-squares(2) to sum-of-squares(1) 19.99

Interval between epochs (sec) 150.0
Epoch increment 5
Number of measurements used in solution 237
Number of measurements rejected 1
RMS (cycles) .042
PDOP(norm to 60 sec)(m/cycle) .030

Elevation mask (deg) 15.0
Sigma multiplier 3.5
Modified Hopfield troposphere model used

Best tracking C/A code positions

Station 1

Pdop	2.8					
x (m)	-1281603.000	lat (dms)	N	39	43	30.30246
y (m)	-4743489.337	elon (dms)	E	254	52	50.64043
z (m)	4055636.222	wlon (dms)	W	105	7	9.35957
		ht (m)		1691.0098		

clock offset(s) .41920789D-03
freq offset(s/s) -.33306653D-06

Code calibration(m)		Carrier calibration(m)
0 - 1	.0205	.0010
0 - 2	-.0322	.0008
0 - 3	-.0757	.0005
0 - 4	.3955	-.0002
0 - 5	.3955	.0007
0 - 6	.3018	.0003
0 - 7	.2974	.0000

Station 2

Pdop	2.8					
x (m)	-1282102.031	lat (dms)	N	39	43	30.03752
y (m)	-4743363.472	elon (dms)	E	254	52	29.03886
z (m)	4055632.809	wlon (dms)	W	105	7	30.96114
		ht (m)		1695.5049		

clock offset(s) .14343746D-03
freq offset(s/s) -.39169145D-06

Code calibration(m)		Carrier calibration(m)
0 - 1	-.1987	-.0010
0 - 2	-.3179	-.0010

0 - 4	.7754	-.0005
0 - 5	.0776	-.0014
0 - 6	-.1987	-.0014
0 - 7	1.5322	-.0015

TRIMBLE NAVIGATION, LTD
585 NORTH MARY AVENUE
SUNNYVALE, CALIFORNIA 94086
U.S.A.

PROGRAM TRIMVEC
GPS RELATIVE POSITIONING SOLUTION
VERSION 90.060

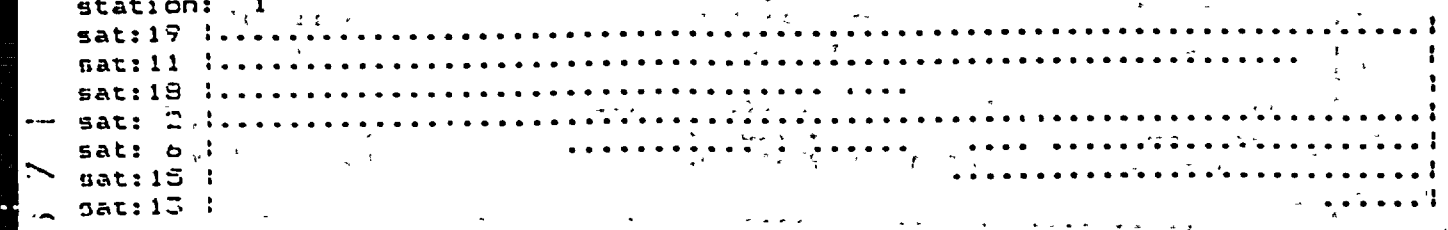
File name: c:\tnl\postout\00140971.fix
Coordinate system - WGS-84

Type solution: Double difference

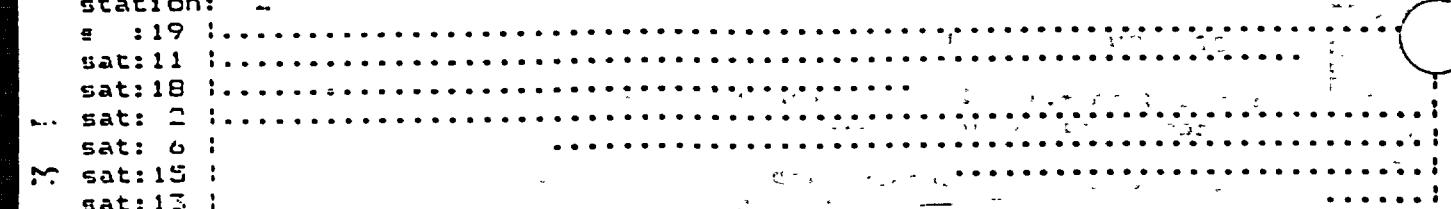
Start date/time: 1991/ 4/ 7 21:13:60. day of year 97 tow 76440.
Stop date/time: 1991/ 4/ 8 0: 8:30. day of year 98 tow 86910.

Data available

station: 1



station: 2



Ephemeris file used: c:\tnl\posttest\05000971.eph

SATELLITE	IODE	HEALTH	WEEK NO.	TOW(sec)	URA(m)
19	225	0	587	76200.00	2.0
11	179	0	587	76200.00	2.8
18	97	0	587	76230.00	2.0
2	24	0	587	76380.00	2.0
6	227	0	587	79470.00	11.3
15	230	0	587	82770.00	4.0
13	29	0	587	86160.00	2.0

Broadcast satellite clock correction values

prn	af0	af1	af2	toc
19	.1317774877D-04	.1136868377D-11	.0000000000D+00	.7510D+05
11	-.2721347846D-03	-.4206412996D-11	.0000000000D+00	.8280D+05
18	.6918795407D-05	.5684341886D-12	.0000000000D+00	.7510D+05
2	-.3118593943D-04	-.1705302566D-11	.0000000000D+00	.7920D+05
6	-.2442332916D-03	-.1489297574D-10	.0000000000D+00	.8640D+05
15	.5659833550D-04	.3524291969D-11	.0000000000D+00	.8640D+05
13	.5322736688D-03	.1705302566D-11	.0000000000D+00	.9000D+05

Message file for station 1

```
Reference Position - LOW ACCURACY:
Lat.  = 39:42'40.000" N  Long. = 105:07'11.000" W  Height = 1706.0  [meters]
Antenna height   =  1.6540  [meters]  (entered in the field in meters)
Long station name:  POINT 500

Receiver serial # = 247
Antenna serial  # = 72  (entered in the office)
NP  oftware = 4.30      SP Software = 4.20      Download Software = 2.05.00

Survey schedule:  Start time = 21:12  Stop time = 03:35
Data-logging start time = 21:13
Data-logging stop  time = 03:35

Tracking   SV  2  SV  6  SV 11  SV 12  SV 13  SV 15  SV 18  SV 19
total L1     1526   1143    617    347    878    617    390    823
cont  L1     1526    840    558    308    878    432    217    820

SV Selection mode = AUTOMATIC
Elevation mask    = 15      [degrees]   Minimum # of SVs  =  3

3D Position       Best PDOP Position [ 2.7]      Mean Position [3038]
Latitude:          39:43'30.29433" N              39:43'30.28587" N
Longitude:        105:07'09.15615" W             105:07'09.11680" W
Height [m]:              1699.3                         1698.9

2D Position       Best PDOP Position [ 1.5]      Mean Position [1604]
Latitude:          39:43'30.49925" N              39:43'30.36304" N
Longitude:        105:07'08.97416" W             105:07'09.13038" W

.....

Origin of station 1 coordinates : Trimvec pseudo range solution

 STATION (mark)  1

input data file  1 : c:\tnl\posttest\05000971.dat
 antenna height(m)      1.644

met values used:  pressure(mb)            1013.0
                  temperature(deg C)        20.0
                  relative humidity(%)      50.0

   x (m)      -1291601.581      lat  (dms)  N    39    43  30.44925
   y (m)      -4743495.011      elon (dms)  E   254    52  50.76007
   z (m)       4055646.354      wlon (dms)  W   105     7   9.23993
                                ht (m)           1701.4136

Message file for station 2
.....
Station ID: 1014  Session #: 097-1      Apr  7, 1991 21:08
Reference Position - LOW ACCURACY:
Lat.  = 39:42'40.000" N  Long. = 105:07'11.000" W  Height = 1706.0  [meters]
Antenna height   =  1.7640  [meters]  (entered in the field in meters)
Long station name:  1014 POINT

Receiver serial # = 248
Antenna serial  # = 73  (entered in the office)
NP  ftware = 4.30      SP Software = 4.20      Download Software = 2.05.00

Survey schedule:  Start time = 21:12  Stop time = 03:35
Data-logging start time = 21:13
Data-logging stop  time = 03:35

Tracking   SV  6  SV 11  SV 12  SV 13  SV 14  SV 15  SV 18  SV 19
total L1     1291    629    418    877    128    720    406    839
```

```
SV Selection mode = AUTOMATIC
Elevation mask    = 15     [degrees]   Minimum # of SVs  =  3

3D Position      Best PDOP Position [ 2.3]    Mean Position [3613]
Latitude:         39:43'30.19592" N            39:43'30.18629" N
Longitude:       105:07'30.65997" W           105:07'30.69661" W
Height [m]:             1699.7                       1712.3

2D Position      Best PDOP Position [ 1.5]    Mean Position [1083]
Latitude:         39:43'30.23192" N            39:43'30.21215" N
Longitude:       105:07'30.81504" W           105:07'30.93986" W

.....

  STATION (mark)  2

 input data file  1 : c:\tnl\posttest\10140971.dat
  antenna height(m)      1.755

 met values used:  pressure(mb)          1013.0
                   temperature(deg C)      20.0
                   relative humidity(%)    50.0

   x (m)      -1282101.623      lat (dms)  N   39   43  30.31341
   y (m)      -4745374.021      elon (dms) E  254   52  29.17096
   z (m)       4055652.248      wlon (dms) W  105    7  30.82904
                                ht (m)          1715.6790

 slope distance (m)          514.5049      sigma (m)      .002

                                    Forward          Backward
 normal section azimuth (dms)   269 32  6.21      89 31 52.42
 vertical angle (dms)             1 35 11.45       0 -1 39.97

  east(m)    north(m)    up(m)        -514.291         -4.173        14.245

 Delta lat(dms)    0    0   -.13584
 Delta lon(dms)    0    0 -21.58911
 Delta ht(m)     14.2655

 Vector covariance matrix (m**2) :
                                dx                    dy                    dz

          dx     .450707685722D-05
          dy     .496323873075D-05   .178907689872D-04
          dz    -.225026046544D-05  -.803204502508D-05   .920583439683D-05

  correlations:

              dx      dy      dz    trop  bias 1  bias 2  bias 3  bias 4  bias 5  bias 6
 bias 7
     dx    1.000
     dy     .553   1.000
     dz    -.349   -.626   1.000
   trop     .000    .000    .000   1.000
 bias 1     .000    .000    .000    .000   1.000
 bias 2     .000    .000    .000    .000    .000   1.000
 bias 3     .000    .000    .000    .000    .000    .000   1.000
 bias 4     .000    .000    .000    .000    .000    .000    .000   1.000
 bias 5     .000    .000    .000    .000    .000    .000    .000    .000   1.000
 bias 6     .000    .000    .000    .000    .000    .000    .000    .000    .000   1.000
 bias 7     .000    .000    .000    .000    .000    .000    .000    .000    .000    .000
  1.000
```

					in station 1 coordinates
dx (m)	-500.042	.002	10.000	.000	.000
dy (m)	120.990	.004	.000	10.000	.000
dz (m)	5.894	.003	.000	.000	10.000
trop (%)	.000	.000	.000	.000	.000
bias 1 (cycle)	.000	.000	.000	.000	.000
bias 2 (cycle)	.000	.000	.000	.000	.000
bias 3 (cycle)	.000	.000	.000	.000	.000
bias 4 (cycle)	.000	.000	.000	.000	.000
bias 5 (cycle)	.000	.000	.000	.000	.000
bias 6 (cycle)	.000	.000	.000	.000	.000
bias 7 (cycle)	.000	.000	.000	.000	.000

Results of integer bias search:

.15369	4.48942	5.18154
0	0	0
0	0	0
0	-1	1
0	-1	1
0	0	0
0	0	0

Ratio sum-of-squares(2) to sum-of-squares(1) 29.21

Interval between epochs (sec) 150.0
Epoch increment 5
Number of measurements used in solution 234
Number of measurements rejected 5
RMS (cycles) .037
PDOP(norm to 60 sec)(m/cycle) .030

Elevation mask (deg) 15.0
lt multiplier 3.5
Modified Hopfield troposphere model used

Best tracking C/A code positions

Station 1

Pdop	3.1					
x (m)	-1281600.559	lat (dms)	N	39	43	30.35828
y (m)	-4743497.060	elon (dms)	E	254	52	50.82389
z (m)	4055644.127	wlon (dms)	W	105	7	9.17611
		ht (m)		1701.3066		

clock offset(s) .69919281D-03
freq offset(s/s) -.60987836D-07

Code calibration(m)		Carrier calibration(m)
0 - 1	.1509	.0015
0 - 2	-.1304	.0004
0 - 3	-.1831	-.0001
0 - 4	.5669	-.0003
0 - 5	.4917	.0013
0 - 6	.3271	.0002
0 - 7	.1553	-.0003

Station 2

Pdop	2.8					
x (m)	-1282099.566	lat (dms)	N	39	43	30.12895
y (m)	-4743372.534	elon (dms)	E	254	52	29.23801
(m)	4055643.211	wlon (dms)	W	105	7	30.76199
		ht (m)		1708.3865		

clock offset(s) .78706930D-04
freq offset(s/s) -.30808211D-06

Code calibration(m)		Carrier calibration(m)
0 - 1	-.0708	-.0005
0 - 2	-.1577	-.0004

0 - 4	.4868	-.0005
0 - 5	.3657	-.0008
0 - 6	.1621	-.0004
0 - 7	.0664	.0030

TRIMBLE 4000ST

SITE LOG

FIELD OPERATOR: BENSEN/AUTO

PROJECT: BASELINE TEST

SITE ID: SOD/POINT SOD SESSION: 1 FILE #: CSOD096J

APPROX. COORD.:	LATITUDE	LONGITUDE	HEIGHT
	N-39 42 44	W-105 07 11	1706

DATE: 4/6/91
RECEIVER NO: 244
ANTENNA NO: 070

STATIC [X]
KINEMATIC [ ]
PSEUDORANGE [ ]

OBSTRUCTION OF HORIZON:	NORTH	EAST	SOUTH	WEST

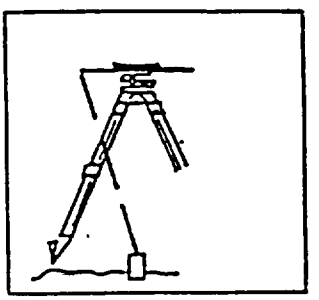
HEIGHT OF PHASE CENTER ABOVE MARKER:

STATIC

SCALE READING....1.654.....m

KINEMATIC/PSEUDORANGE

SCALE READING.....m



BATTERY 244-2

IMPORTANT OBSERVATIONS: (NOTE TIME ALSO)

NGS POINT SOD 1976

TRIMBLE 4000ST

SITE LOG

FIELD OPERATOR: BENSON/SMITH

PROJECT: BASELINE TEST

SITE ID: 1014/LOW POINT SESSION: 1 FILE #: 10140961

APPROX. COORD:	LATITUDE	LONGITUDE	HEIGHT
	N-39 42 40	W-105 07 11	1706

DATE: 4/6/91
RECEIVER NO: 245
ANTENNA NO: 071

STATIC ☒
KINEMATIC ☐
PSEUDORANGE ☐

OBSTRUCTION OF HORIZON:	NORTH	EAST	SOUTH	WEST
	—	—	—	—

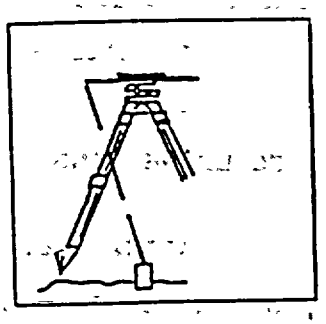
HEIGHT OF PHASE CENTER ABOVE MARKER:

STATIC

SCALE READING.....1.762.....m

KINEMATIC/PSEUDORANGE

SCALE READING.....m



BATTERY 245-2

IMPORTANT OBSERVATIONS. (NOTE TIME ALSO)

NGS 1014 POINT 1976

TRIMBLE 4000ST

SITE LOG

FIELD OPERATOR: BENSON / AUTO

PROJECT BASELINE TEST

SITE ID OSRD/SOO POINT SESSION 1 FILE # 05000971

APPROX. COORD.:	LATITUDE	LONGITUDE	HEIGHT
	N-39 42 40	W-105 07 11	1706

DATE: 4/7/91
RECEIVER NO: 247
ANTENNA NO: 022

STATIC ☒
KINEMATIC ☐
PSEUDORANGE ☐

OBSTRUCTION OF HORIZON:	NORTH	EAST	SOUTH	WEST

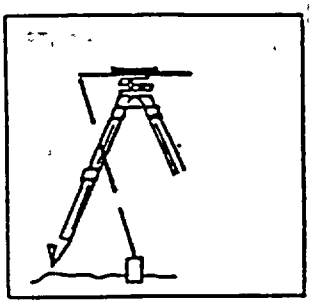
HEIGHT OF PHASE CENTER ABOVE MARKER:

STATIC

SCALE READING.....1.654✓.....m

KINEMATIC/PSEUDORANGE

SCALE READING.....—.....m



IMPORTANT OBSERVATIONS: (NOTE TIME ALSO)

BATTERY 247-2

NGS POINT SOO 1976

TRIMBLE 4000ST

SITE LOG

FIELD OPERATOR: BENSON/AUTO

PROJECT BASELINE TEST

SITE ID 1014/POINT 1014 SESSION 1 FILE # 10140971

APPROX. COORD:	LATITUDE	LONGITUDE	HEIGHT
	N-39 42 40	W-105 07 11	1706

DATE: 4/7/91
RECEIVER NO: 248
ANTENNA NO: 073

STATIC ☒
KINEMATIC ☐
PSEUDORANGE ☐

OBSTRUCTION OF HORIZON:	NORTH	EAST	SOUTH	WEST
	—	—	—	—

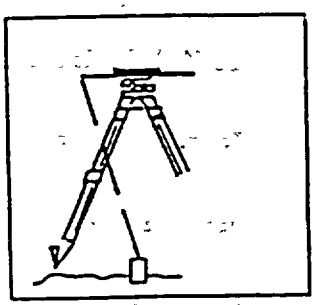
HEIGHT OF PHASE CENTER ABOVE MARKER:

STATIC

SCALE READING..... 1.764 ✓ m

KINEMATIC/PSEUDORANGE

SCALE READING..... m



BATTERY 248-2

IMPORTANT OBSERVATIONS: (NOTE TIME ALSO)

NGS 1014 POINT 1976

INFORMATION COPY

YMP-USGS NOTIFICATION OF CALIBRATION STATUS

Instrument Description Trimble GPS Receiver - Model 4000 ST

Unique Identification Number (i.e. Model #, Serial #, and/or other ID #)

(1) SN 2930A00247 (2) SN 2930ADD248

qvp 03-29-91

Calibration Date 02/17/91 Calibration Expiration Date Upon completion of quadrilateral survey project

Technical Procedure(s) Used for Calibration [including Revision number(s)]

NWM-USGS-GP-06, R3

Instrument Location Beatty, NV (03/28/91 - 04/03/91)

Organizational Unit (i.e. NHP, GD) USGS, National Mapping Div. (GD)

Calibrated By USGS - NMD, Br. of Geometronics, Denver, CO

Location of Calibration Data/Documentation (i.e. Notebook ID#, File #, etc.)

PI's Office (Room 1454-D), Bldg. 25, Denver Federal Center, Denver, CO

Comments Opening calibration prior to the start of the quadrilateral (GPS) survey project.

Name of Responsible PI G. C. Perasso

INFORMATION COPY

YMP-USGS NOTIFICATION OF CALIBRATION STATUS

Instrument Description Trimble GPS Receiver - Model 4000 ST

Unique Identification Number (i.e. Model #, Serial #, and/or other ID #)

(1) SN 2930A00044 (2) SN 2930A00045

GHP 03-29-91

Calibration Date 03/25/91 Calibration Expiration Date Upon completion of quadrilateral survey project

Technical Procedure(s) Used for Calibration [including Revision number(s)]

NWM-USGS-GP-06, R3

Instrument Location Beatty, NV (03/28/91-04/03/91)

Organizational Unit (i.e. NHP, GD) USGS, National Mapping Div. (GD)

Calibrated By USGS - NMD, Br. of Geometronics, Denver, CO

Location of Calibration Data/Documentation (i.e. Notebook ID#, File #, etc.)

PI's Office (Room 1454-D), Bldg. 25, Denver Federal Center, Denver, CO

Comments Opening calibration prior to the start of the quadrilateral (GPS) survey project.

Name of Responsible PI G. C. Perasso

TRIMVEC GPS RELATIVE POSITIONING SOLUTION SUMMARY: VERSION 90.06Q

SOLUTION OUTPUT FILE: 00140841.fix Receiver #s 2 4 3 2 45

STATION 1: Station ID: 0500 Session #: 084-1 Mar 25, 1991 22:01
Data-logging start time = 22:05 Data-logging stop time = 04:28

STATION 2: Station ID: 1014 Session #: 084-1 Mar 25, 1991 22:01
Data-logging start time = 22:06 Data-logging stop time = 04:28

STATION COORDINATES:

Sta	Ant (m)	Latitude	Longitude	Hgt (m)
1	1.587	39:43'30.57325" N	105:07'09.31148" W	1688.980 39
2 [TRP]	1.654	39:43'30.43794" N	105:07'30.89977" W	1703.144
2 [FLT]	1.654	39:43'30.43729" N	105:07'30.90099" W	1703.177
2 [FIX]	1.654	39:43'30.43749" N	105:07'30.90055" W	1703.163 201

Origin of station 1 coordinates : User input

SOLUTION SUMMARY:

Solution	dx (m)	dy (m)	dz (m)	dh (m)	RDOP
TRIPLE	-500.015	121.011	5.893	14.244	2.076
FLOAT	-500.053	120.982	5.898	14.277	0.142
FIXED	-500.039	120.993	5.895	14.263	0.031
FLT-FIX	-0.014	-0.011	0.003	0.013	

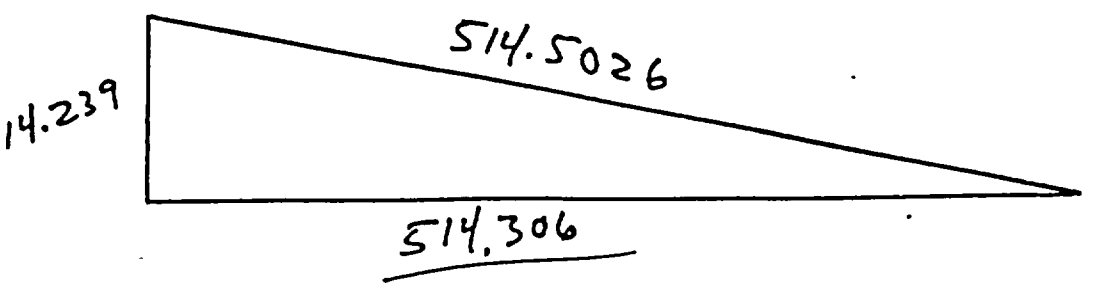
Solution	Slope (m)	sig	Epochs/Rejected	Epoch interval	Epoch increment
TRIPLE	514.4834	[0.050]	202/ 21	150 (secs)	5 (epochs)
FLOAT	514.5136	[0.009]	231/ 6	150 (secs)	5 (epochs)
FIXED	514.5026	[0.002]	229/ 8	150 (secs)	5 (epochs)

Fixed solution quality factor: 22.9
Fixed solution rms: 0.038 (cycles)
Maximum float - fixed delta: 1.4 (cm)

Integers found, RMS is large. (see Trimvec Manual, page 3-12)

summary of directory: c:\tnl\mcmc.OUT

Session	From	To	rms	rdop	ratio	distance(m)	ah1(m)	ah2(m)
084-1	0500	1014	0.038	0.031	22.910	514.503	1.587	1.654



PUBLISHED VALUE = 514.3058

TRIMBLE 4000ST

SITE LOG

FIELD OPERATOR: AUTO.

PROJECT: BASELINE TEST

SITE ID: 500/POINT 500 SESSION: 1 FILE #: 05000841

APPROX. COORD:	LATITUDE	LONGITUDE	HEIGHT
	N-39 43 30	W-105 07 09	1699.9

DATE: 3/25/91
RECEIVER NO: 244
ANTENNA NO: 070

STATIC ☒
KINEMATIC ☐
PSEUDORANGE ☐

OBSTRUCTION OF HORIZON:	NORTH	EAST	SOUTH	WEST
	45° Treeline No leaves	—	60° Tree No leaves	—

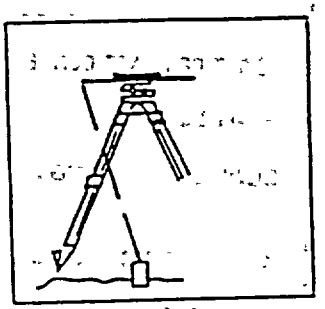
HEIGHT OF PHASE CENTER ABOVE MARKER.

STATIC

SCALE READING.....~~1.64~~ 1.598 m

KINEMATIC/PSEUDORANGE

SCALE READING.....m



BATTERY 24.8-2

IMPORTANT OBSERVATIONS (NOTE TIME ALSO)

NGS "POINT 500 1976"

Centered OK at end

TRIMBLE 4000ST

SITE LOG

FIELD OPERATOR: AUTO

PROJECT: BASELINE TEST

SITE ID 1014/1014 POINT SESSION 1 FILE # 10140841

APPROX. COORD.:	LATITUDE	LONGITUDE	HEIGHT
	N-39 43 30	W-105 07 31	1703.2

DATE: 3/25/91
RECEIVER NO: 245
ANTENNA NO: 071

STATIC ☒
KINEMATIC ☐
PSEUDORANGE ☐

OBSTRUCTIONS OF HORIZON:	NORTH	EAST	SOUTH	WEST
	—	—	—	—

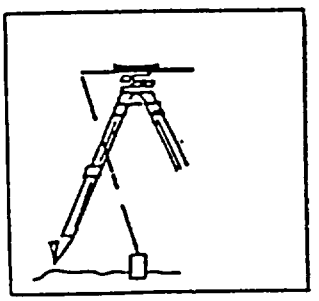
HEIGHT OF PHASE CENTER ABOVE MARKER:

STATIC

SCALE READING.....1.664.....m

KINEMATIC/PSEUDORANGE

SCALE READING.....—.....m



BATTERY 249-1

IMPORTANT OBSERVATIONS: (NOTE TIME ALSO)

NGS "1014 POINT 1976"

$N = h - H$

$-16.095 = h - 1705.033$

$= h = \underline{1688.938}$ = 500 Ellip Ht

1703.213 = 1014 Ellip Ht

H1

Geoid sep

500	39 43 30.19205	105 7 9.29544	-16.095
1014	39 43 30.08663	105 7 30.82880	-16.059

TRIMVEC GPS RELATIVE POSITIONING SOLUTION SUMMARY: VERSION 90.06

Rejected #s 247 & 248

SOLUTION OUTPUT FILE: 00140481.fix

STATION 1: Station ID: 0500 Session #: 048-1 Feb 17, 1991 00:31
Data-logging start time = 00:36 Data-logging stop time = 03:50

STATION 2: Station ID: 1014 Session #: 048-1 Feb 17, 1991 00:33
Data-logging start time = 00:36 Data-logging stop time = 05:43

STATION COORDINATES:

Sta	Ant (m)	Latitude	Longitude	Hgt (m)
1	1.623	39:43'30.19205" N	105:07'09:29544" W	1688.938
2 [TRP]	1.742	39:43'30.05564" N	105:07'30.88523" W	1703.273
2 [FLT]	1.742	39:43'30.05623" N	105:07'30.88472" W	1703.210
2 [FIX]	1.742	39:43'30.05626" N	105:07'30.88460" W	1703.202

Origin of station 1 coordinates : User input

SOLUTION SUMMARY:

Solution	dx (m)	dy (m)	dz (m)	dh (m)	RDOP
TRIPLE	-500.074	120.932	5.925	14.335	2.079
FLOAT	-500.046	120.986	5.899	14.272	0.140
FIXED	-500.042	120.993	5.894	14.264	0.030
FLT-FIX	-0.004	-0.007	0.005	0.009	

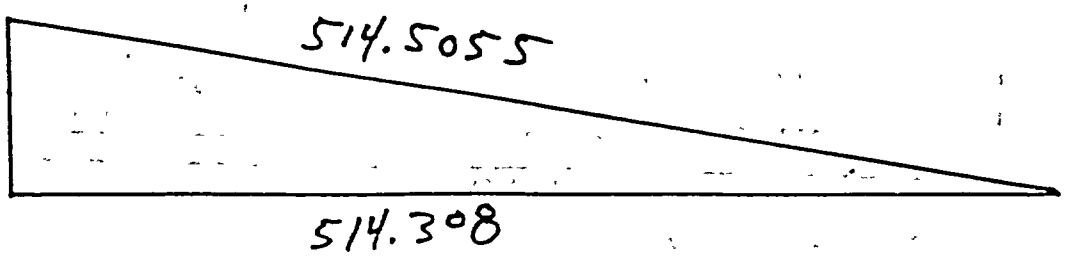
Solution	Slope (m)	sig	Epochs/Rejected	Epoch interval	Epoch increment
TRIPLE	514.5227	[0.039]	214/ 19	150 (secs)	5 (epochs)
FLOAT	514.5085	[0.008]	241/ 2	150 (secs)	5 (epochs)
FIXED	514.5055	[0.002]	242/ 1	150 (secs)	5 (epochs)

Fixed solution quality factor: 25.7
Fixed solution rms: 0.037 (cycles)
Maximum float - fixed delta: 0.7 (cm)

Integers found, RMS is large. (see Trimvec Manual, page 3-12)

Summary of directory: c:\tnl\testout

Session	From	To	rms	rdop	ratio	distance(m)	ah1(m)	ah2(m)
048-1	0500	1014	0.037	0.030	25.730	514.506	1.623	1.742



PUBLISHED VALUE = 514.3058

TRIMBLE 4000ST

SITE LOG

FIELD OPERATOR: AUTO

PROJECT BASELINE TEST

SITE ID 500/POINT 500 SESSION _____ FILE # 048-1

APPROX. COORD.:	LATITUDE	LONGITUDE	HEIGHT
	N-39 42 40	W-105 02 04	1706

DATE: 2/17/91
RECEIVER NO: 248
ANTENNA NO: A73

STATIC ☐
KINEMATIC ☐
PSEUDORANGE ☐

OBSTRUCTION OF HORIZON:	NORTH	EAST	SOUTH	WEST
	45° Treeline No leaves	—	60° Tree No leaves	—

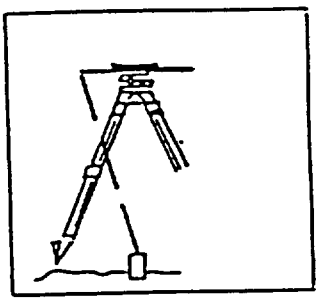
HEIGHT OF PHASE CENTER ABOVE MARKER:

STATIC

SCALE READING.....~~1.667~~ 1.633 ~~1.665~~.....m

KINEMATIC/PSEUDORANGE

SCALE READING.....m



IMPORTANT OBSERVATIONS: (NOTE TIME ALSO)

NGS "POINT 500 1976"

TRIMBLE 4000ST

SITE LOG

FIELD OPERATOR: AUTO

PROJECT BASELINE TEST

SITE ID: ~~1014~~ 1014 POINT SESSION 1 FILE # 0497

APPROX. COORD.: LATITUDE N-39 12 40 LONGITUDE W-105 02 09 HEIGHT 1706

DATE 2/17/91 UTC
RECEIVER NO: 247
ANTENNA NO: 072

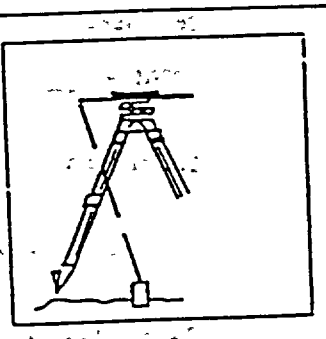
STATIC ☒
KINEMATIC ☐
PSEUDORANGE ☐

OBSTRUCTION OF HORIZON: NORTH — EAST — SOUTH — WEST —

HEIGHT OF PHASE CENTER ABOVE MARKER: ~~1.735~~ ~~1.729~~

STATIC SCALE READING 1.751 ~~1.731~~ m

KINEMATIC/PSEUDORANGE SCALE READING m



IMPORTANT OBSERVATIONS: (NOTE TIME ALSO)

NGS "1014 POINT 1976"

INFORMATION COPY

YMP-USGS NOTIFICATION OF CALIBRATION STATUS

Instrument Description Trimble GPS Receiver - Model 4000ST

Unique Identification Number (i.e. Model #, Serial #, and/or other ID #)

(1) SN 2930A00244 (2) SN 2930A00245

Calibration Date 04/06/91 Calibration Expiration Date Not applicable See Comments

Technical Procedure(s) Used for Calibration [including Revision number(s)]

NWM - USGS - GP-06, R3

Instrument Location Not applicable (MCMC - Rolla, Missouri)

Organizational Unit (i.e. NHP, GD) USGS, National Mapping Division (GD)

Calibrated By USGS - NMD, Br. of Geometronic Operations, Denver, CO

Location of Calibration Data/Documentation (i.e. Notebook ID#, File #, etc.)

PI's Office (Room 1454-D), Bldg. 25, Denver Federal Center, Denver, CO

Comments This is the closing calibration for the completed quadrilateral (GPS) survey project.

Name of Responsible PI G. C. Perasso

INFORMATION COPY

YMP-USGS NOTIFICATION OF CALIBRATION STATUS

Instrument Description: Trimble GPS Receiver - Model 4000ST

Unique Identification Number (i.e. Model #, Serial #, and/or other ID #)

(1) SN 2930A00247 (2) SN 2930A00248

Calibration Date: 04/07/91 Calibration Expiration Date: Not applicable See Comments

Technical Procedure(s) Used for Calibration [including Revision number(s)]

NWM - USGS - GP-06, R3

Instrument Location: Denver, CO (+ western U.S. and Alaska)

Organizational Unit (i.e. NHP, GD): USGS, National Mapping Division (GD)

Calibrated By: USGS - NMD, Bur. of Geometronic Operations, Denver, CO

Location of Calibration Data/Documentation (i.e. Notebook ID#, File #, etc.)

PI's Office (Room 1454-D), Bldg. 25, Denver Federal Center, Denver, CO

Comments: This is the closing calibration for the completed quadrilateral (GPS) survey project.

Name of Responsible PI: G. C. Perasso

INFORMATION COPY

YMP-USGS NOTIFICATION OF CALIBRATION STATUS

Instrument Description Trimble GPS Receiver - Model 4000 ST

Unique Identification Number (i.e. Model #, Serial #, and/or other ID #)
(1) SN 2935A00244 (2) SN 2930A00245

Calibration Date 04/06/71 Calibration Expiration Date Not applicable See comments

Technical Procedure(s) Used for Calibration [including Revision number(s)]
NWM-USGS-GP-06, R3

Instrument Location Not applicable (MCMC - Rolla, Missouri)

Organizational Unit (i.e. NHP, GD) USGS National Mapping Div. (GD)

Calibrated By USGS-NMD, Br. of Geometronics, Denver, CO

Location of Calibration Data/Documentation (i.e. Notebook ID#, File #, etc.)
PI's Office (Room 1454-D), Bldg. 25, Denver Federal Center, Denver, CO

Comments This is the closing calibration for the completed Quadrilateral (GPS) survey project.

Name of Responsible PI G. C. Ferrigno

INFORMATION COPY

YMP-USGS NOTIFICATION OF CALIBRATION STATUS

Instrument Description Trimble GPS Receiver - Model 4000ST

Unique Identification Number (i.e. Model #, Serial #, and/or other ID #)
(1) SN 2930A00247 (2) SN 2930A00243

Calibration Date 04/07/91 Calibration Expiration Date Not applicable See comments

Technical Procedure(s) Used for Calibration [including Revision number(s)]
NWM-USGS-GP-06, R3

Instrument Location Denver, CO. (+ western US and Alaska)

Organizational Unit (i.e. NHP, GD) USGS, National Mapping Div. (GD)

Calibrated By USGS-NMD, Br. of Geometronics, Denver, CO

Location of Calibration Data/Documentation (i.e. Notebook ID#, File #, etc.)
PI's office (Room 1454-D), Bldg. 25 Denver Federal Center, Denver, CO

Comments This is the closing calibration for the completed Semi-Interval (GPS) Survey project.

Name of Responsible PI G. C. Perreault

DESCRIPTION OF STAGE NW

Beatty, Nevada, from the intersection of U.S. 95 and State Highway 374, proceed SE along U.S. highway 95 for 14.0 miles. Turn northerly onto a graded road, thence 5.6 miles to a T-intersection E., thence East 3.2 miles to a bend in the road; proceed northeasterly 4.0 miles to a T-intersection South; thence 3.0 South on a graded road to a Y-intersection Southeast and South; proceeding South on the track road (four-wheel drive may be required) for 2.9 miles to an East-West T-intersection; thence proceeding East for 0.45 miles. Thence proceed on foot South perpendicular to road centerline for 1100 feet. The station is located on the Northeast side of a lone round top. The station is a standard tablet cemented in bedrock and located 10 feet northwest of a cairn. The cairn is visible from the road. The tablet is stamped "STAGE NW 1991".

DESCRIPTION OF STAGE NE

Beatty, Nevada, from the intersection of U.S. 95 and State Highway 374, proceed SE along U.S. highway 95 for 14.0 miles. Turn northerly onto a graded road, thence 5.6 miles to a T-intersection E., thence East 3.2 miles to a bend in the road; proceed northeasterly 4.0 miles to a T-intersection South; thence 3.0 South on a graded road to a Y-intersection Southeast and South; proceeding South on the track road (four-wheel drive may be required) for 2.9 miles to an East-West T-intersection;thence proceeding East for 1.2 miles. Thence proceed on foot North perpendicular to centerline for 1150 feet. The station is a standard tablet located on a lone round hill. The tablet is cemented in bedrock and is located 10 feet Northvest of a rock cairn. The cairn is visible from the road. The tablet is stamped "STAGE NE 1991".

DESCRIPTION OF STAGE SW

Beatty, Nevada, from the intersection of U.S. 95 and State Highway 374, proceed SE along U.S. highway 95 for 14.0 miles. Turn northerly onto a graded road, thence 5.6 miles to a T-intersection E., thence East 3.2 miles to a bend in the road; proceed northeasterly 4.0 miles to a T-intersection South; thence 3.0 South on a graded road to a Y-intersection Southeast and South; proceeding South on the track road (four-wheel drive may be required) for 2.9 miles to an East-West T-intersection;thence proceeding East for 0.85 miles. Proceed 4320 feet South on foot to the top of the first ridge to the South. The station is a standard tablet cemented in bedrock. The station is located 23 feet West of rock cairn. The tablet is stamped "STAGE SW 1991".