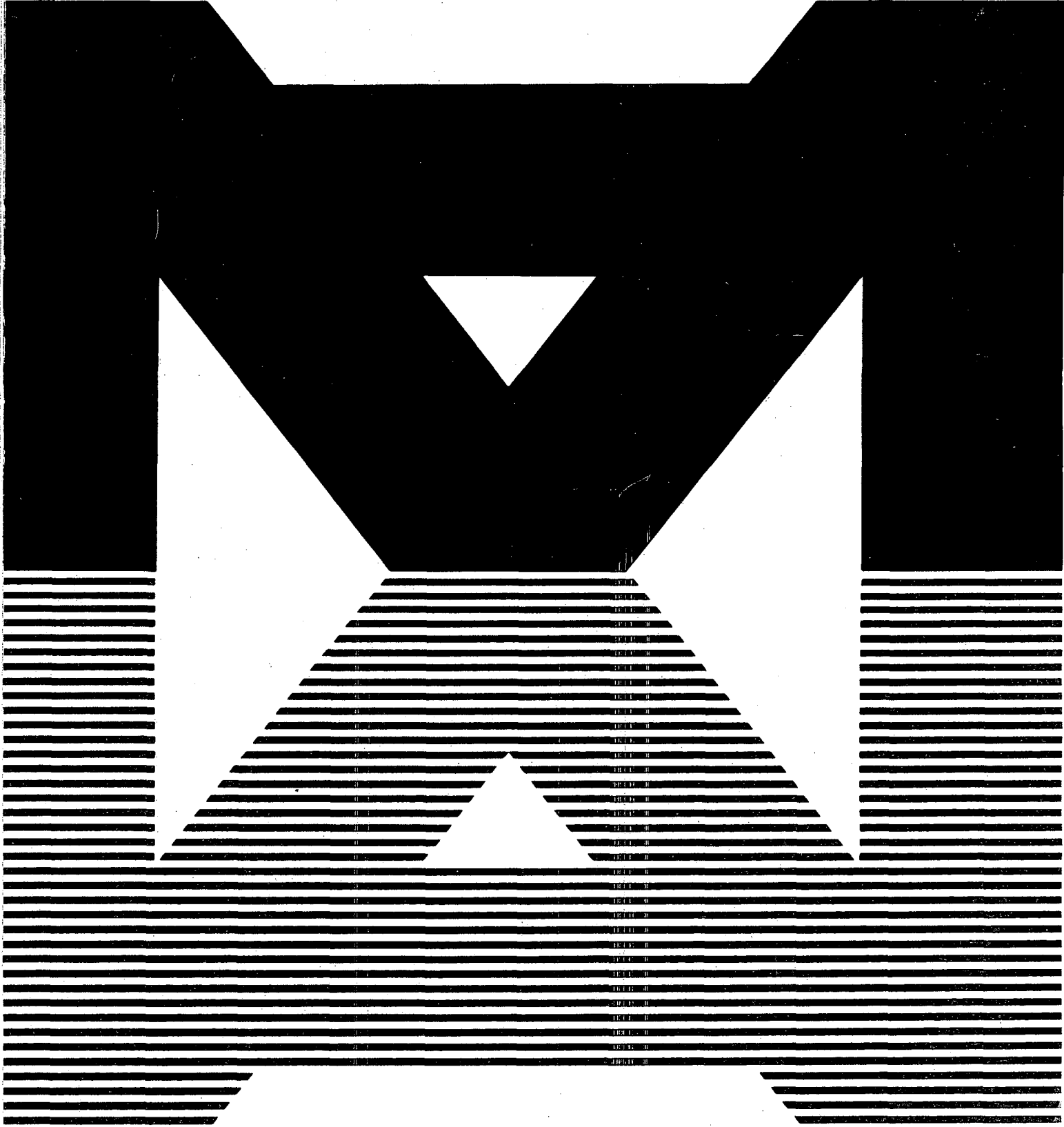


1734

PROJECT NAME:

**Leveling Sweet Lake Geopressured
Well Site**

MEYER AND ASSOCIATES, INC.



DISCLAIMER

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PROJECT REPORT
VERNON F. MEYER AND ASSOCIATES, INC.
RELEVELING: SWEETLAKE GEOPRESSURED TEST SITE
LOUISIANA
JULY, 1984

I. INTRODUCTION:

A. Authority

Office of the Director of Purchasing, Graham O. Peavy, Louisiana State University. Proposal #3873-First Order Leveling Surveys-Parcperdue and Sweet Lake Geopressured Test Sites. Purchase Order No. R102070.

B. Purpose

First Order leveling surveys to be conducted as part of an environmental monitoring program for geopressured test well.

C. Scope

Conduct first order leveling to determine the elevation of the previously installed and leveled bench marks in the area of the Sweetlake geothermal well. All leveling surveys to conform to NGS standards and specifications.

II. LOCATION:

A. Locality

Releveling was performed in and around Sections 4, 9, 16, 21, 28, 17, 18, 8, 7, and 6, Township 12 South, Range 7 West, and Sections 13, 14, 23 and 24, Township 12 South, Range 8 West, Cameron Parish. The well site is about 3 miles East of Grand Lake school.

B. Area Covered

Releveling: 19.28 kilometers of 1st order double-run
11.96 miles x 2 = 23.92 miles

III. CONDITIONS AFFECTING PROGRESS:

A. Climate

The leveling was performed in late June and early August and the weather was hot and humid.

B. Topography

The terrain was flat with the level line routed along parish and State highways, and some cross country.

C. Transportation

Two vehicles were used on the entire assignment. A 3/4-ton pickup and a 3/4 ton suburban. There were a few places the vehicles could not be used such as whenever heavy highway traffic and narrow roads were encountered.

IV. ORGANIZATION:

A. Party Personnel

The observing unit consisted of an observer who was the unit chief, a recorder, two rodmen and a pacer. The observer and recorder alternated duties on site, one of the rodmen served as a back-up recorder and the rodmen took turns with the pacing duties. The mark setting unit was not utilized on this project.

B. Equipment

Observations were accomplished using a Wild NA 2 Automatic Level with parallel plate micrometer; one set of double-scale, Wild: 1-centimeter matched rods with rod struts. Turning pins with removable driving caps were used to support the rods during observations. The Hewlett Packard 97 Programmable Printing Calculator was used to record observations. The mark setting equipment was not used on this project.

V. FIELD WORK

A. Chronology

The survey crews traveled to the project each day from our office location in Sulphur, Louisiana.

Recovery of marks was accomplished on July 30, 1984. During recovery of marks, LSU-S1 was found to be destroyed. Leveling began on July 30, 1984 at benchmark Q214 which is located on Highway 27, 4 miles Northeast of the test site. The 1970 observed elevation served as datum. Levels then extended South on Highway 27 to benchmark V214. A level line was then run from Highway 27 West along Highway 384 to the test site. Leveling continued through August 8, 1984 with the final tie in at LSU-S6.

B. Methods

All sections were recorded on the Hewlett Packard 97 Calculator, using the program for First Order, Class I, one centimeter - matched rods. First Order, Class I observing methods were used. The procedure for reading the rods at each set up is as follows: Backsite Lower Scale, Backsite Stadia, Foresite Lower Scale, Foresite Stadia (the

compensator is then checked), proceed to read foresite high scale, and finally backsite high scale.

The backrod is always read first at each set up, holding the stadia interval to two meters per set up and five meters per section. After completion of the set up, the rear rodman moves forward and becomes the forward rodman for the second set up and the forward rodman remains in place to become the rear rodman. This leapfrogging method used with even number of set ups for each section reduces the effect of the rod index and the rod verticality errors.

The direction of running levels were alternated on most days.

Collimation checks were made in accordance with NGS specifications.

C. Adjustments

The field elevations were not adjusted. They are used in comparison with previous adjusted elevations as published by Vernon F. Meyer and Associates, Inc. Project Report dated December 17, 1980, by Mr. Robert Gerrish, Chief Vertical Branch.

D. Summary

19.28 kilometers of double-run first order levels were run to NGS specifications. No bench marks were required to be set on this project.

SECTION COMPARISON

ELEVATION COMPARISON

B.M.S.	Year	SECTION COMPARISON			ELEVATION COMPARISON			Depth of Mark
		Difference Meters	1980-81 1981-83 1983-84	1980-84	Elevation Meters	Difference Meters 1980-81 1981-83 1983-84	Difference Meters 1980-84	
Q214	1970				4.25688			
R214	1980	-0.87540			3.38148			
	1984	-0.89000	+0.01460		3.36688	-0.01460		
R214								
S214	1980	-0.54048			2.84100			
	1984	-0.54113	+0.00065		2.82575	-0.01525		
S214								
B4142	1980	-0.31678			2.52422			
	1984	-0.31913	+0.00235		2.50662	-0.01760		
B4142								
TT159	1980	+0.07625			2.60047			
	1984	+0.07683	+0.00058		2.58345	-0.01702		
TT159								
TBM2	1980	-0.33272			2.26775			
	1984	-0.33140	-0.00132		2.25205	-0.01570		
TBM2								
T214	1980	-0.41122			1.85653			
	1984	-0.41075	-0.0047		1.84130	-0.01523		
T214								
U214	1980	NA						
	1984	-0.61008	NA		1.23122	NA		
U214								
V214	1980							
	1984	+0.31133	NA		1.54255	NA		
TT159								
S12	1980	-0.30482			2.29565			
	1984	-0.30553	+0.00071		2.27792	-0.01773		
S12								
S11	1980	-0.56520			1.73045			
	1984	-0.56540	+0.00020		1.71252	-0.01793		
S11								
12V4	1980	+0.47370			2.20415			
	1984	+0.47378	+0.00008		2.18630	-0.01785		

SECTION COMPARISON

ELEVATION COMPARISON

B.M.S.	Year	Difference Meters	1980-81		Elevation Meters	Difference Meters		Depth of Mark
			1981-83	1983-84		1980-81	1983-84	
12V4								
12V5	1980	+0.75025			2.95440			
	1984	+0.74955	-0.00070		2.93585	-0.01855		
S9	1980	-0.96135			1.99305			
	1984	-0.95853	-0.00282		1.97732	-0.01573		
S9								
S10	1980	-0.22148			1.77157			
	1984	-0.22018	-0.00130		1.75714	-0.01443		
S9								
12V6	1980	+0.74255			2.73560			
	1984	+0.73700	-0.00555		2.71432	-0.02128		
12V6								
S7	1980	+0.64430			3.37990			
	1984	+0.65118	+0.00688		3.36550	-0.01440		
S7								
S8	1980	-1.55585			1.82405			
	1984	-1.55365	-0.00220		1.81185	-0.01220		
S8								
12V19	1980	+0.39318			2.21723			
	1984	+0.39103	-0.00215		2.20288	-0.01435		
12V6								
TBM1	1980	+0.20545			2.94105			
	1984	+0.21005	+0.00460		2.92437	-0.01668		
TBM1								
S2	1980	-0.48035			2.46070			
	1984	-0.47913	-0.00122		2.44524	-0.01546		
S2								
S1	1980	-0.10022			2.36048			
	1984	Destroyed	NA			NA		
TBM1								
S3	1980	+0.04492			2.98597			
	1984	+0.04530	+0.00038		2.96967	-0.01630		

SECTION COMPARISON

ELEVATION COMPARISON

B.M.S.	Year	SECTION COMPARISON			ELEVATION COMPARISON			Depth of Mark
		Difference Meters	1980-81 1981-83 1983-84	1980-84	Elevation Meters	Difference Meters 1980-81 1981-83 1983-84	Difference Meters 1980-84	
S3								
S4	1980	-0.48122			2.50475			
	1984	-0.48185	+0.00063		2.48782	-0.01693		
S4								
12V7	1980	+0.26548			2.77023			
	1984	+0.28793	+0.02245		2.77575	+0.00552		
S4								
S5	1980	+0.016595			2.67070			
	1984	+0.16528	-0.00067		2.65310	-0.01760		
S5								
S6	1980	-0.38712			2.28358			
	1984	-0.37960	-0.00752		2.27350	-0.01008		

GEODETIC LEVELING FIELD ABSTRACT

62 L

SHEET 1

SHEETS OF 3

TITLE
First Order Re-Leveling @ Sweetlake Geopressured/Geothermal Test Site, August, 1984

DISTANCE UNITS: KM SM		D/F.E. UNITS: MT FT		Mo. / Day	F / B	DISTANCE Δ/Σ	D	-(B+F) Δ/Σ	D/F.E.
0026	TO	Q 2 14							4.25688
0001	TO	R 2 14		7/30	F	1.33	-0.89085	+170	-0.89000
				7/30	B	1.33	0.88915		
0002	TO	S 2 14				1.33		+170	3.36688
0003	TO	T 2 14		7/30	F	0.78	-0.54245	+265	-0.54113
				7/30	B	0.78	0.53980		
0004	TO	B 4 1 4 2				2.11		+435	2.82575
0005	TO	T T 1 5 9 Reset 1956		7/30	F	0.80	-0.3189	- 45	-0.31913
				7/30	B	0.80	0.31935		
0006	TO	T T 1 5 9 Reset 1956				2.91		+390	2.50652
0007	TO	T T 1 5 9 Reset 1956		7/30	F	0.01	0.07685	- 5	0.07683
				7/30	B	0.01	-0.07680		
0008	TO	T T 1 5 9 Reset 1956				2.92		+385	2.58345
0009	TO	T B M 2		7/30	F	0.90	-0.33180	+ 80	-0.33140
				7/30	B	0.90	0.33100		
0010	TO	T B M 2				3.82		+465	2.25205
0011	TO	T B M 2		8/1	F	0.69	-0.41035	- 80	-0.41075
				8/2	B	0.70	0.41115		
0012	TO	T 2 14				4.52		+365	1.84130
0013	TO	T 2 14		8/1	F	1.63	-0.60805	-405	-0.61008
				8/2	B	1.63	0.61210		
0014	TO	U 2 1 4				6.15		- 40	1.23122
0015	TO	U 2 1 4		8/2	F	0.78	0.31110	+ 45	0.31133
				8/2	B	0.78	-0.31155		
0016	TO	V 2 1 4				6.93		+ 5	1.54255
0017	TO								
0018	TO								

SUPERSEDES NOAA FORM 76-148 (11-72) WHICH IS OBSOLETE, AND EXISTING STOCK SHOULD BE DESTROYED UPON RECEIPT OF REVISION.

GEODETIC LEVELING FIELD ABSTRACT

GZ L SHEET 2 OF SHEETS 3

TITLE
First Order Re-Leveling @ Sweetlake Geopressured/Geothermal Test Site, August, 1984

DISTANCE UNITS: KM SM		D/F.E. UNITS: MT FT		M ₁ IDAY	F /R	DISTANCE Δ/Σ	σ	-(B+F) Δ/Σ	D.F.E.
						2.92		+385	
0006	FROM TIT 159 Reset 1956			8/2F		0.15	-0.30535	+ 35	-0.30553
				8/7B		0.15	0.30570		
	TO LSU S 1 2					3.07		+420	2.27792
0007	FROM LSU S 1 2			8/2F		1.69	-0.56630	+180	-0.56540
				8/7B		1.66	0.56450		
	TO LSU S 1 1					4.76		+600	1.71252
0008	FROM LSU S 1 1			8/2F		0.65	0.47350	+ 55	0.47378
				8/7B		0.64	-0.47405		
	TO 1 2 V 4					5.40		+655	2.18630
0009	FROM 1 2 V 4			8/3F		1.27	0.74985	- 60	0.74955
				8/3B		1.27	-0.74925		
	TO 1 2 V 5					6.67		+595	2.93585
0010	FROM 1 2 V 5			8/3F		0.32	-0.95820	- 65	-0.95855
				8/3B		0.32	0.95885		
	TO LSU 5 9					6.99		+530	1.97732
0011	FROM LSU 5 9			8/7F		1.12	-0.21955	-125	-0.22018
				8/7B		1.12	0.22080		
	TO LSU 5 10					8.11		+405	1.75714
0012	FROM LSU 5 9			8/7F		0.96	0.73690	+ 20	0.73700
				8/8B		0.96	-0.73710		
	TO 1 2 V 6					7.95		+550	2.71432
0013	FROM 1 2 V 6			8/7F		0.88	0.65155	- 75	0.65118
				8/8B		0.88	-0.65080		
	TO LSU 5 7					8.83		+475	3.36550
0014	FROM LSU 5 7			8/7F		0.99	-1.55405	+ 80	-1.55365
				8/7B		0.99	1.55325		
	TO LSU 5 8					9.82		+555	1.81185
0015	FROM LSU 5 8			8/7F		0.05	0.39100	+ 5	0.39103
				8/7B		0.05	-0.39105		
	TO 1 2 U 1 9					9.87		+560	2.20288

SUPERSEDES NOAA FORM 76-148 (11-72) WHICH IS OBSOLETE, AND EXISTING STOCK SHOULD BE DESTROYED UPON RECEIPT OF REVISION.

12019

Exhibit 3

AA FORM 76-187
761

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

GEODETIC LEVELING FIELD ABSTRACT

Z L

SHEET

3

SHEETS

OF

3

First Order Re-Leveling @ Sweetlake Geopressured/Geothermal Test Site, August, 1984

STANCE UNITS: KM SM		D/F.E. UNITS: MT FT		Mo. / Day	F / R	DISTANCE Δ/Σ	D	(B+F) Δ/Σ	B/F.E.
						7.95		+550	
30° FROM	L 2 V 6			8/8F		0.23	0.20980	+ 50	0.21005
				8/8B		0.24	-0.21030		
TO	T B M 1					8.18		+600	2.92437
30° FROM	T B M 1			8/8F		0.62	-0.47845	-135	-0.47913
				8/8B		0.62	0.47980		
TO	L S U 5 2					8.80		+465	2.44524
30° FROM	L S U 5 2								
TO	L S U 5 1			DESTROYED					
30° FROM	T B M 1			8/8F		8.18		+600	
				8/8F		0.39	0.04560	- 60	0.04530
				8/8B		0.39	-0.04500		
TO	L S U 5 3					8.57		+540	2.96967
30° FROM	L S U 5 3			8/8F		0.88	-0.48165	- 40	-0.48185
				8/8B		0.88	0.48205		
TO	L S U 5 4					9.45		+500	2.48782
30° FROM	L S U 5 4			8/8F		0.33	0.28750	+ 85	0.28793
				8/8B		0.34	-0.28835		
TO	L 2 V 7					9.79		+585	2.77575
30° FROM	L S U 5 4							+500	
				8/8F		1.02	0.16405	+245	0.16528
				8/8B		1.02	-0.16650		
TO	L S U 5 5					10.47		+745	2.65310
30° FROM	L S U 5 5			8/8F		0.80	-0.37940	- 40	-0.37960
				8/8B		0.80	0.37980		
TO	L S U 5 6					11.27		+705	2.27350
30° FROM									
TO									
30° FROM									
TO									

SUPERSEDES NOAA FORM 76-148 (11-72) WHICH IS OBSOLETE, AND EXISTING STOCK SHOULD BE DESTROYED UPON RECEIPT OF REVISION.

GEODETIC LEVELING

LINE										TAPE NO.																				
PROJ. NO. 5021										PAGE					OF															
ST 0		ST 1			ST 2		ST 3																							
DATA		YR. MO. DY.			ZONE		INST. NO.			CODE																				
40																														
ST 4					ST 5																									
ROD NO. 1					CODE					ROD NO. 2					CODE															
ST 6			ST 7			ST 8			ST 9			C																		
OBSERVER			TIME			LEVEL			CONST			C/F			UNITS			STAD			F									
															F M T K M			B			R									
0 - WRITE ON TAPE - 9										BLOCK										-										
ST 0		ST 1			DESIGNATION																									
DATA		FROM:			Q-214																									
41		0026																												
		ST 2			DESIGNATION																									
		TO:			R-214																									
		0001																												
ST 3			ST 4			ST 5			ST 6			ST 7			BLOCK															
TIME			TEMP			WIND			SUN			DATE			-															
1200			83			22			28			40730																		
0 - WRITE ON TAPE - 7										f-CLEAR										ST ^{CHS} SIGN 9										
ELEV. DIFF.										RCL 7										KM. RCL · NO. RCL 0										
-0.89085										1.33										16										
ST 0		ST 1			ST 2 - ST 3			ST 4			BLOCK																			
DATA		TIME			TEMP			WIND			SUN			OBS.			REC.			-										
41		1315			84			22			RH			RW																
0 - WRITE ON TAPE - 4																														
REMARKS																				REMARKS										

Q-214

8497301200.
 63.00
 1.00 ***
 1800250001. **
 195.15 ***
 217.40 ***
 148.02 ***
 169.70 ***
 739.52 ***
 785.64 ***
 0.02 ***
 1.12 ***
 2.00 ***
 1800250001. ***
 132.99 ***
 153.70 ***
 145.47 ***
 165.80 ***
 736.98 ***
 724.49 ***
 0.03 ***
 -0.12 ***
 3.00 ***
 1800250001. ***
 149.98 ***
 170.80 ***
 155.69 ***
 175.90 ***
 748.18 ***
 741.49 ***
 0.01 ***
 1.10 ***
 4.00 ***
 1800250001. ***
 147.52 ***
 167.70 ***
 150.22 ***
 170.80 ***
 741.73 ***
 739.01 ***
 0.03 ***
 0.30 ***
 5.00 ***
 1800250001. ***
 155.40 ***
 177.40 ***
 145.65 ***
 165.00 ***
 737.14 ***
 747.91 ***
 0.01 ***
 1.50 ***

5.00 ***
 1800250001. ***
 142.63 ***
 162.70 ***
 141.72 ***
 162.40 ***
 733.21 ***
 734.10 ***
 0.03 ***
 0.38 ***
 7.00 ***
 1800250001. ***
 146.54 ***
 167.80 ***
 151.59 ***
 173.00 ***
 743.08 ***
 738.02 ***
 0.04 ***
 0.08 ***
 8.00 ***
 1800250001. ***
 146.68 ***
 167.90 ***
 144.35 ***
 165.10 **
 735.96 **
 738.15 **
 0.07 **
 1.04 ***
 9.00 ***
 1800250001. ***
 149.30 ***
 170.60 ***
 155.65 ***
 175.60 ***
 747.15 ***
 749.78 ***
 0.09 ***
 1.75 ***
 10.00 ***
 1800250001. ***
 147.33 ***
 168.90 ***
 134.20 ***
 155.90 ***
 725.69 ***
 738.83 ***
 0.27 ***
 1.38 ***
 11.00 ***
 1800250001. ***
 141.73 ***
 165.40 ***
 143.40 **
 165.40 **
 734.97 **
 733.20 ***
 0.09 ***

12.00 ***
 1800250001. ***
 145.76 ***
 167.50 ***
 175.59 ***
 138.00 ***
 768.08
 737.27
 0.07
 1.54
 13.00
 1800250001.
 157.40
 183.90
 147.56
 169.20
 735.05
 758.91
 0.05
 1.25 ***
 14.00 ***
 1800250001. ***
 145.14 ***
 166.80 ***
 150.19 ***
 172.00 ***
 741.70 ***
 736.64 ***
 0.06 ***
 0.96 ***
 15.00 ***
 1800250001. ***
 135.20 ***
 157.30 ***
 150.34 ***
 172.60 ***
 741.85 ***
 726.68 ***
 0.09 ***
 0.64 ***
 16.00 ***
 1800250001. ***
 139.61 ***
 153.90 ***
 236.72 ***
 250.50 ***
 838.20 ***
 731.07 ***
 0.11 ***
 1.66 ***
 166.54 ***
 264.88 ***
 -39.03
 -89.14
 1.33
 -0.8909
 16.

Q-214

GEODETIC LEVELING

LINE										TAPE NO.														
PROJ. NO. 5021										PAGE					OF									
ST 0		ST 1			ST 2		ST 3																	
DATA		YR. MO. DY.			ZONE		INST. NO.			CODE														
40																								
ST 4					ST 5																			
ROD NO. 1					CODE					ROD NO. 2					CODE									
ST 6			ST 7			ST 8			ST 9			C												
OBSERVER			TIME			LEVEL CONST			C/F			UNITS STAD				F								
												F M T K M				B								
0 - WRITE ON TAPE - 9										BLOCK					-					R				
ST 0		ST 1			DESIGNATION																			
DATA		FROM:			R-214																			
41		0001																						
		ST 2			DESIGNATION																			
		TO:			Q-214																			
		0026																						
ST 3		ST 4		ST 5		ST 6		ST 7		BLOCK														
TIME		TEMP		WIND		SUN		DATE		-														
1230		90		22		28		40731																
0 - WRITE ON TAPE - 7										f-CLEAR					ST ^{CH} SIGN 9									
ELEV. OFF.										RCL 7					KM. RCL					NO. RCL. 0				
+0.88915										1.33					16									
ST 0		ST 1			ST 2 - ST 3		ST 4			BLOCK														
DATA		TIME			TEMP		WIND		SUN		OBS.		REC.			-								
41		1400			84		22		2		RH		RW											
0 - WRITE ON TAPE - 4																								
REMARKS										REMARKS														

R-214

8487311230.
 30.80
 1.00 ***
 1800010026. ***
 237.38 ***
 251.60 ***
 148.39 ***
 162.90 ***
 739.87 ***
 829.49 ***
 -0.83 ***
 -1.78 ***
 2.00 ***
 1800010026. ***
 165.19 ***
 187.60 ***
 137.10 ***
 159.20 ***
 728.58 ***
 756.68 ***
 -0.04 ***
 -1.16 ***
 3.00 ***
 1800010026. ***
 140.01 ***
 162.00 ***
 140.03 ***
 151.50 ***
 731.53 ***
 731.31 ***
 -0.04 ***
 -0.12 ***
 4.00 ***
 1800010026. ***
 148.41 ***
 170.50 ***
 143.74 ***
 165.20 ***
 735.25 ***
 739.92 ***
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 1.14 ***
 5.00 ***
 1800010026. ***
 151.74 ***
 172.60 ***
 151.38 ***
 173.00 ***
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 743.25 ***
 -0.05 ***
 -0.38 ***

6.00 ***
 1800010026. ***
 147.10 ***
 170.00 ***
 152.22 ***
 174.50 ***
 743.73 ***
 738.59 ***
 -0.03 ***
 0.86 ***
 7.00 ***
 1800010026. ***
 155.79 ***
 176.80 ***
 159.91 ***
 180.60 ***
 751.40 ***
 747.29 ***
 -0.04 ***
 1.50 ***
 8.00 ***
 1800010026. ***
 163.20 ***
 184.60 ***
 151.70 ***
 172.70 ***
 743.19 ***
 754.71 ***
 -0.06 ***
 2.30 ***
 9.00 ***
 1800010026. ***
 148.86 ***
 169.20 ***
 151.46 ***
 172.60 ***
 742.98 ***
 740.39 ***
 -0.09 ***
 0.74 ***
 10.00 ***
 1800010026. ***
 149.42 ***
 171.10 ***
 149.89 ***
 171.40 ***
 741.39 ***
 740.92 ***
 -0.09 ***
 1.08 ***
 11.00 ***
 1800010026. ***
 149.95 ***
 170.00 ***
 148.75 ***
 168.90 ***
 740.25 ***
 741.46 ***
 -0.09 ***

12.00 ***
 1800010026. ***
 143.48 ***
 154.00 ***
 152.56 ***
 173.20 ***
 741.05 ***
 739.08 ***
 13.00 ***
 1800010026. ***
 158.31 ***
 179.00 ***
 153.21 ***
 173.80 ***
 744.71 ***
 749.81 ***
 -0.10 ***
 0.84 ***
 14.00 ***
 1800010026. ***
 152.01 ***
 172.80 ***
 145.19 ***
 154.70 ***
 754.68 ***
 743.51 ***
 -0.11 ***
 -0.60 ***
 15.00 ***
 1800010026. ***
 146.83 ***
 167.90 ***
 129.44 ***
 791.25 ***
 734.84 ***
 -0.11 ***
 -3.32 ***
 16.00 ***
 8487311400.
 84.60

Q-214

Q-214

GEODETIC LEVELING

LINE										TAPE NO.									
PROJ. NO. 5021										PAGE OF									
ST 0		ST 1				ST 2		ST 3				CODE							
DATA		YR. MO. DY.				ZONE		INST. NO.											
40																			
ST 4					ST 5														
ROD NO. 1					CODE					ROD NO. 2					CODE				
ST 6			ST 7			ST 8			ST 9			C							
OBSERVER			TIME			LEVEL			CONST. C/F			UNITS			STAD. F				
									F M T K M			B							
0 - WRITE ON TAPE - 9										BLOCK - R									
ST 0		ST 1				DESIGNATION													
DATA		FROM:				R-214													
41		0001																	
		ST 2				DESIGNATION													
		TO:				S-214													
		0002																	
ST 3		ST 4		ST 5		ST 6		ST 7		BLOCK									
TIME		TEMP		WIND		SUN		DATE		-									
13/15		84		22		22		840730											
0 - WRITE ON TAPE - 7										f-CLEAR ST SIGN 9									
ELEV. DIFF.										RCL 7 KM. RCL NO. RCL 0									
-0.54245										0.78210									
ST 0		ST 1		ST 2 - ST 3		ST 4		BLOCK											
DATA		TIME		TEMP		WIND		SUN		OBS.		REC.							
341		1445		84		22		RH		RW									
0 - WRITE ON TAPE - 4																			
REMARKS					REMARKS														

R-214

8407301315.
 84.00
 1.00 ***
 1000010002. ***
 210.34 ***
 232.50 ***
 134.10 ***
 156.90 ***
 725.59 ***
 801.83 ***
 0.00 ***
 -1.28 ***
 2.00 ***
 1000010002. ***
 139.50 ***
 162.50 ***
 162.25 ***
 185.40 ***
 753.76 ***
 731.39 ***
 0.02 ***
 -2.38 ***
 3.00 ***
 1000010002. ***
 155.42 ***
 178.90 ***
 151.80 ***
 174.50 ***
 743.31 ***
 746.92 ***
 0.03 ***
 -0.82 ***
 4.00 ***
 1000010002. ***
 151.57 ***
 173.80 ***
 156.62 ***
 179.20 ***
 748.12 ***
 743.08 ***
 0.02 ***
 -1.52 **
 5.00 ***
 1000010002. ***
 148.30 ***
 171.90 ***
 159.55 ***
 183.00 ***
 751.14 ***
 739.81 ***
 0.00 ***
 -1.02 ***

6.00 ***
 1000010002. ***
 147.15 ***
 170.80 ***
 140.94 ***
 163.10 ***
 732.45 ***
 738.65 ***
 0.01 ***
 0.36 ***
 7.00 ***
 1000010002. ***
 142.31 ***
 164.90 ***
 146.45 ***
 169.70 ***
 737.95 ***
 733.80 ***
 0.02 ***
 -0.96 ***
 8.00 ***
 1000010002. ***
 136.93 ***
 160.00 ***
 150.34 ***
 174.00 ***
 741.85 ***
 728.44 ***
 0.02 ***
 -2.14 ***
 9.00 ***
 1000010002. ***
 147.25 ***
 154.00 ***
 152.35 ***
 158.90 ***
 743.85 ***
 738.78 ***
 0.00 ***
 -1.75 ***

10.00 ***
 1000010002. ***
 132.34 ***
 137.80 ***
 211.27 ***
 216.70 ***
 802.77 ***
 723.05 ***
 -0.01 ***
 -1.70 ***
 389.56 ***
 381.26 ***
 -54.25 ***
 -54.24 ***
 0.78
 -0.5425
 16.
 1445.00
 84.00

S-214

GEODETIC LEVELING

LINE										TAPE NO.																			
PROJ. NO. 5021										PAGE					OF														
ST 0		ST 1			ST 2		ST 3			CODE																			
DATA		YR. MO. DY.			ZONE		INST. NO.																						
40																													
ST 4					ST 5																								
ROD NO. 1					CODE					ROD NO. 2					CODE														
ST 6			ST 7			ST 8			ST 9			C																	
OBSERVER			TIME			LEVEL			CONST			C/F			UNITS			STAD			F								
															F			M			K			M			8		
0 - WRITE ON TAPE - 9										BLOCK					-					R									
ST 0		ST 1			DESIGNATION																								
DATA		FROM:			S-214																								
41		0002																											
		ST 2			DESIGNATION																								
		TO:			R-214																								
		0001																											
ST 3		ST 4		ST 5		ST 6		ST 7		BLOCK																			
TIME		TEMP		WIND		SUN		DATE																					
1035		84		22		28		40731																					
0 - WRITE ON TAPE - 7										f-CLEAR					ST ^{CHG} SIGN 9														
ELEV. DIFF.										RCL 7					KM. RCL. NO. RCL. 0														
70.53980										0.78					10														
ST 0		ST 1			ST 2		ST 3		ST 4			BLOCK																	
DATA		TIME			TEMP		WIND		SUN			OBS.			REC.			-											
341		1110			84		22		2			RH			RW														
0 - WRITE ON TAPE - 4																													
REMARKS															REMARKS														

S-214

8407311035.
 84.00
 1.00 ***
 1800020001. ***
 210.36 ***
 215.60 ***
 131.44 ***
 136.50 ***
 722.95 ***
 801.84 ***
 0.03 ***
 0.36 ***
 2.00 ***
 1800020001. ***
 154.94 ***
 161.00 ***
 157.66 ***
 164.00 ***
 749.15 ***
 746.42 ***
 0.04 ***
 -0.20 ***
 3.00 ***
 1800020001. ***
 154.42 ***
 188.00 ***
 148.51 ***
 171.80 ***
 740.01 ***
 755.50 ***
 0.06 ***
 0.38 ***
 4.00 ***
 1800020001. ***
 154.56 ***
 177.90 ***
 146.20 ***
 169.80 ***
 737.71 ***
 746.07 ***
 0.06 ***
 1.06 ***
 5.00 ***
 1800020001. ***
 148.52 ***
 171.00 ***
 153.97 ***
 176.30 ***
 745.48 ***
 740.02 ***
 0.07 ***
 2.16 ***

6.00 ***
 1800020001. ***
 161.02 ***
 195.20 ***
 154.50 ***
 177.90 ***
 746.00 ***
 752.51 ***
 0.00 ***
 3.72 ***
 7.00 ***
 1800020001. ***
 162.65 ***
 184.80 ***
 149.40 ***
 172.10 ***
 740.90 ***
 754.14 ***
 0.09 ***
 2.62 ***
 8.00 ***
 1800020001. ***
 150.55 ***
 173.60 ***
 153.00 ***
 176.80 ***
 744.50 ***
 742.06 ***
 0.00 ***
 1.28 ***
 9.00 ***
 1800020001. ***
 162.55 ***
 185.50 ***
 148.79 ***
 171.50 ***
 740.29 ***
 754.05 ***
 0.08 ***
 1.76 ***

10.00 ***
 1800020001. ***
 154.62 ***
 176.70 ***
 226.62 ***
 248.70 ***
 818.11 ***
 746.11 ***
 0.00 ***
 1.76 ***
 390.22 ***
 388.46 ***
 54.02 ***
 53.94
 0.78
 0.5399
 16.
 8407311110.
 84.00

R-214

GEODETIC LEVELING

LINE										TAPE NO.																													
PROJ. NO. 5021										PAGE OF																													
ST 0		ST 1				ST 2		ST 3																															
DATA		YR. MO. DY.				ZONE		INST. NO.		CODE																													
40																																							
ST 4					ST 5																																		
ROD NO. 1					CODE					ROD NO. 2					CODE																								
ST 6			ST 7			ST 8			ST 9			C																											
OBSERVER			TIME			LEVEL CONST.			C/F			UNITS			STAD.			F																					
												F M T K M						B																					
0 - WRITE ON TAPE - 9										BLOCK										-										R									
ST 0		ST 1		DESIGNATION																																			
DATA		FROM:		S-214																																			
41		0002																																					
		ST 2		DESIGNATION																																			
		TO:		B-4142																																			
		0003																																					
		ST 3		ST 4		ST 5		ST 6		ST 7		BLOCK																											
		TIME		TEMP		MNO		SUN		DATE		-																											
		1445		84		22		28		40730																													
0 - WRITE ON TAPE - 7										f-CLEAR										ST SIGN 9																			
ELEV. DIFF.										RCL 7										KM. RCL										NO. RCL 0									
										-0.31890										0.80										10									
ST 0		ST 1		ST 2		ST 3		ST 4		BLOCK																													
DATA		TIME		TEMP		MNO		SUN		OBS.		REC.		-																									
341		1555		84		22		2		RH		RW																											
0 - WRITE ON TAPE - 4																																							
REMARKS										REMARKS																													

S-214

8407301445.
 84.00
 1.00 ***
 1800020003. ***
 213.20 ***
 218.70 ***
 134.28 ***
 139.80 ***
 725.78 ***
 804.70 ***
 0.00 ***
 -0.04 ***
 2.00 ***
 1800020003. ***
 111.95 ***
 133.00 ***
 187.31 ***
 129.20 ***
 696.81 ***
 783.46 ***
 -0.81 ***
 -1.72 ***
 3.00 ***
 1800020003. ***
 118.28 ***
 138.50 ***
 128.18 ***
 151.00 ***
 719.69 ***
 787.77 ***
 0.01 ***
 -2.72 ***
 4.00 ***
 1800020003. ***
 122.48 ***
 145.50 ***
 142.45 ***
 165.30 ***
 733.98 ***
 713.97 ***
 0.03 ***
 -2.38 ***
 5.00 ***
 1800020003. ***
 120.72 ***
 143.00 ***
 119.19 ***
 142.00 ***
 710.70 ***
 712.21 ***
 0.05 ***
 -3.44 ***

5.00 ***
 1800020003. ***
 121.15 ***
 144.50 ***
 127.13 ***
 150.20 ***
 718.84 ***
 712.66 ***
 0.06 ***
 -2.90 ***
 7.00 ***
 1800020003. ***
 114.49 ***
 136.20 ***
 112.61 ***
 132.80 ***
 784.09 ***
 785.98 ***
 0.05 ***
 -1.86 ***
 8.00 ***
 1800020003. ***
 110.39 ***
 133.00 ***
 118.34 ***
 148.80 ***
 789.84 ***
 781.88 ***
 0.06 ***
 -1.56 ***
 5.00 ***
 1800020003. ***
 138.84 ***
 161.20 ***
 146.58 ***
 169.30 ***
 738.07 ***
 739.31 ***
 0.08 ***
 -2.28 **

10.00 ***
 1800020003. ***
 144.96 ***
 161.40 ***
 210.25 ***
 228.50 ***
 801.74 ***
 738.45 ***
 0.08 ***
 -1.90 ***
 481.26 ***
 483.16 **
 -31.85 **
 -31.93 **
 0.80 **
 -0.3189 **

16. *
 8407301555.
 84.00

B-4142

GEODETIC LEVELING

LINE										TAPE NO.									
PROJ. NO. 5021										PAGE OF									
ST 0		ST 1				ST 2		ST 3											
DATA		YR. MO. DY.				ZONE		INST. NO.				CODE							
40																			
ST 4					ST 5														
ROD NO. 1					CODE					ROD NO. 2					CODE				
ST 6			ST 7			ST 8			ST 9			C							
OBSERVER			TIME			LEVEL CONST			C/F			UNITS		STAD		F			
												F		M		T			
0 - WRITE ON TAPE - 9										BLOCK									
ST 0		ST 1		DESIGNATION															
DATA		FROM:		B-4142															
41		0003																	
		ST 2		DESIGNATION															
		TO:		S-214															
		0002																	
ST 3		ST 4		ST 5		ST 6		ST 7		BLOCK									
TIME		TEMP		MNO		SUN		DATE		-									
0945		04		22		20		40731		-									
0 - WRITE ON TAPE - 7										f-CLEAR ST SIGN 9									
ELEV. DIFF.										RCL 7 KM. RCL NO. RCL 0									
70.3										1935 0.80 10									
ST 0		ST 1		ST 2 - ST 3		ST 4		BLOCK											
DATA		TIME		TEMP		MNO SUN		OBS. REC.		-									
341		1030		24		22		RH RW											
0 - WRITE ON TAPE - 4																			
REMARKS										REMARKS									

?
B-4142 8497510345.

84.88
1.98 ***
1800030002. ***
211.92 ***
228.90 ***
138.52 ***
155.80 ***
730.03 ***
803.41 ***
0.02 ***
-0.50 ***

2.00 ***
1800030002. ***
152.35 ***
174.60 ***
151.49 ***
173.50 ***
742.98 ***
743.87 ***
-0.81 ***
-0.12 ***

3.00 ***
1800030002. ***
151.73 ***
173.20 ***
137.88 ***
159.90 ***
729.37 ***
743.21 ***
0.00 ***
-1.22 ***

4.00 ***
1800030002. ***
146.91 ***
158.10 ***
152.73 ***
174.00 ***
744.24 ***
738.40 ***
0.02 ***
-1.38 ***

5.00 ***
1800030002. ***
152.60 ***
175.40 ***
153.91 ***
176.20 ***
745.42 ***
744.10 ***
0.03 ***
-0.35 ***

5.00
1800030002. ***
161.86 ***
184.10 ***
158.52 ***
180.80 ***
750.03 ***
753.34 ***
0.06 ***
-0.44 ***

7.00 ***
1800030002. ***
152.75 ***
185.60 ***
145.63 ***
188.20 ***
737.12 ***
754.23 ***
0.07 ***
0.12 ***

8.00 ***
1800030002. ***
158.80 ***
180.90 ***
157.58 ***
179.78 ***
748.07 ***
750.29 ***
0.07 ***
0.08 ***

5.00 ***
1800030002. ***
159.22 ***
181.10 ***
151.00 ***
172.90 ***
742.50 ***
750.72 ***
0.07 ***
0.04 ***

10.00 ***
1800030002. ***
132.30 ***
137.50 ***
211.21 ***
216.60 ***
802.71 ***
723.80 ***
0.07 ***
-0.34 ***

397.52
398.25
31.87
31.90
0.80
0.3194 ***

16. ***

8497510350.
84.00

S-214

GEODETIC LEVELING

LINE										TAPE NO.											
PROJ. NO. 5021										PAGE OF											
ST 0		ST 1				ST 2		ST 3													
DATA		YR. MO. DY.				ZONE		INST. NO.		CODE											
40																					
ST 4					ST 5																
ROD NO. 1					CODE					ROD NO. 2					CODE						
ST 6			ST 7			ST 8			ST 9			C									
OBSERVER			TIME			LEVEL			CONST. C/F			UNITS			STAD.			✓ F			
									F			M T K M			B						
O - WRITE ON TAPE - 9										BLOCK - R											
ST 0		ST 1		DESIGNATION																	
DATA		FROM:		B-4142																	
41		0003																			
		ST 2		DESIGNATION																	
		TO:		TT-159																	
		0004																			
ST 3		ST 4		ST 5		ST 6		ST 7		BLOCK											
TIME		TEMP		WIND		SUN		DATE		-											
1600		84		22		28		40730													
O - WRITE ON TAPE - 7										f - CLEAR ST SIGN 9											
ELEV. DIFF.										RCL 7 KM. RCL NO. RCL 0											
40.07685										0.0102											
ST 0		ST 1		ST 2 - ST 3		ST 4		BLOCK													
DATA		TIME		TEMP		WIND SUN		OBS.		REC.		-									
41		1610		84		22		RH		RW											
O - WRITE ON TAPE - 4																					
REMARKS										REMARKS											

GEODETIC LEVELING

LINE		TAPE NO.					
PROJ. NO. 5021		PAGE		OF			
ST 0 DATA	ST 1 YR. MO. DY.	ST 2 ZONE	ST 3 INST. NO.	CODE			
40							
ST 4 ROD NO. 1			CODE	ST 5 ROD NO. 2		CODE	
ST 6 OBSERVER	ST 7 TIME	ST 8 LEVEL	ST 9 CONST. C/F	UNITS	STAD	C F	
				F	M	T	K
0 - WRITE ON TAPE - 9			BLOCK	-			
ST 0 DATA	ST 1 FROM:	DESIGNATION					
41	0004	TT-159					
	ST 2 TO:	DESIGNATION					
	0003	B-4142					
ST 3 TIME	ST 4 TEMP	ST 5 WIND	ST 6 SUN	ST 7 DATE	BLOCK		
1610	84	2	2	840730			
0 - WRITE ON TAPE - 7			f-CLEAR	ST SIGN 9			
ELEV. DIFF.		RCL 7	KM. RCL		NO. RCL 0		
-0.07680		0.01		02			
ST 0 DATA	ST 1 TIME	ST 2 - ST 3 TEMP	ST 4 WIND	ST 5 SUN	OBS.	REC.	BLOCK
41	1615	84	2	2	RH	RW	
0 - WRITE ON TAPE - 4							
REMARKS				REMARKS			

B-4142

TT-159

8407301600.
 84.00
 1.00 ***
 1800030004. ***
 103.65 ***
 104.90 ***
 138.33 ***
 140.00 ***
 729.82 ***
 695.13 ***
 0.01 ***
 -0.84 ***
 2.00 ***
 1800030004. ***
 151.02 ***
 153.00 ***
 108.66 ***
 110.29 ***
 700.13 ***
 742.51 ***
 -0.01 ***
 0.04 ***
 6.46 ***
 6.42 ***
 7.68 ***
 7.69 ***
 0.01 ***
 0.0769 ***
 16. ***
 1610.00
 84.00

8407301610.
 84.00
 1.00 ***
 1800040003. ***
 107.52 ***
 109.30 ***
 149.69 ***
 151.00 ***
 741.39 ***
 699.03 ***
 -0.01 ***
 1.34 ***
 2.00 ***
 1800040003. ***
 137.19 ***
 139.00 ***
 102.49 ***
 104.00 ***
 694.00 ***
 728.68 ***
 0.00 ***
 1.96 ***
 7.20 ***
 5.24 ***
 -7.68 ***
 -7.68 ***
 0.01 ***
 -0.0768 ***
 16. ***
 8407301615.
 84.00

TT-159

B-4142

GEODETIC LEVELING

LINE										TAPE NO.														
PROJ. NO. 5021										PAGE					OF									
ST 0		ST 1			ST 2		ST 3																	
DATA		YR. MO. DY.			ZONE		INST. NO.			CODE														
40																								
ST 4					ST 5																			
ROD NO. 1					CODE					ROD NO. 2					CODE									
ST 6			ST 7			ST 8			ST 9			C												
OBSERVER			TIME			LEVEL CONST			C/F UNITS			STAD ✓ F												
									F M T K M			B												
0 - WRITE ON TAPE - 9										BLOCK					-					R				
ST 0		ST 1			DESIGNATION																			
DATA		FROM:			T T - 159																			
41		0004																						
		ST 2			DESIGNATION																			
		TO:			TBM-2																			
		0024																						
ST 3		ST 4			ST 5		ST 6		ST 7		BLOCK													
TIME		TEMP			WIND		SUN		DATE		-													
14.15		85			22		28		40731															
0 - WRITE ON TAPE - 7										f-CLEAR					ST ^{CRG} SIGN 0									
ELEV. DIFF.										RCL 7					KM. RCL. NO. RCL. 0									
-0.33										180					090 12									
ST 0		ST 1			ST 2 - ST 3		ST 4			BLOCK														
DATA		TIME			TEMP		WIND		SUN		OBS.		REC.								-			
341		15.30			84		22		2		RH		RW											
0 - WRITE ON TAPE - 4																								
REMARKS										REMARKS														

TT-159

8407311415.
 85.00
 1.00 ***
 1800040024. ***
 204.11 ***
 226.00 ***
 142.23 ***
 163.60 ***
 733.73 ***
 795.61 ***
 0.90 ***
 1.04 ***

 2.00 ***
 1800040024. ***
 133.40 ***
 154.30 ***
 132.69 ***
 153.20 ***
 724.18 ***
 724.90 ***
 -0.01 ***
 1.82 ***

 3.00 ***
 1800040024. ***
 142.17 ***
 163.00 ***
 157.65 ***
 178.50 ***
 749.14 ***
 733.69 ***
 -0.04 ***
 1.79 ***

 4.00 ***
 1800040024. ***
 163.60 ***
 184.60 ***
 160.95 ***
 181.50 ***
 752.43 ***
 755.07 ***
 -0.03 ***
 2.68 ***

 5.00 ***
 1800040024. ***
 129.53 ***
 149.60 ***
 145.97 ***
 166.50 ***
 737.46 ***
 721.00 ***
 -0.01 ***
 1.76 ***

6.00 ***
 1800040024. ***
 133.73 ***
 154.30 ***
 134.44 ***
 155.60 ***
 725.93 ***
 725.20 ***
 0.01 ***
 0.58 ***

 7.00 ***
 1800040024. ***
 153.49 ***
 174.70 ***
 168.44 ***
 169.50 ***
 759.95 ***
 744.99 ***
 0.02 ***
 0.08 ***

 8.00 ***
 1800040024. ***
 158.11 ***
 179.50 ***
 151.96 ***
 172.50 ***
 743.45 ***
 749.63 ***
 -0.01 ***
 2.58 ***

 9.00 ***
 1800040024. ***
 116.46 ***
 137.10 ***
 134.45 ***
 155.70 ***
 725.96 ***
 707.96 ***
 0.00 ***
 1.36 ***

 10.00 ***
 1800040024. ***
 152.30 ***
 173.50 ***
 146.35 ***
 167.30 ***
 737.85 ***
 743.86 ***
 0.02 ***
 1.70 ***

11.00
 1800040024.
 115.33
 125.60
 120.50
 130.80
 712.00
 706.83 ***
 0.02 ***
 1.64 ***

 12.00 ***
 1800040024. ***
 119.34 ***
 124.40 ***
 159.18 ***
 165.00 ***
 750.68 ***
 710.82 ***
 0.04 ***
 0.12 ***

 449.90 ***
 449.78 ***
 -33.16 ***
 -33.20 ***
 0.90 ***
 -0.3318 ***

 16. ***

8407311530.
 84.00

TBM-2

GEODETIC LEVELING

LINE										TAPE NO.																
PROJ. NO. 5021										PAGE					OF											
ST 0		ST 1				ST 2		ST 3																		
DATA		YR. MO. DY.				ZONE		INST. NO.				CODE														
40																										
ST 4					ST 5																					
ROD NO. 1					CODE					ROD NO. 2					CODE											
ST 6			ST 7			ST 8			ST 9						C											
OBSERVER			TIME			LEVEL CONST			C/F			UNTS			STAD			F								
									F			M			T			K			M			B		
0 - WRITE ON TAPE - 9										BLOCK																
ST 0		ST 1		DESIGNATION																						
DATA		FROM:		TBM-2																						
41		0024																								
		ST 2		DESIGNATION																						
		TO:		TT-159																						
		0004																								
ST 3		ST 4		ST 5		ST 6		ST 7		BLOCK																
TIME		TEMP		WIND		SUN		DATE																		
1535		85		22		20		40731																		
0 - WRITE ON TAPE - 7										f-CLEAR					ST SIGN 9											
ELEV. DIFF.										RCL 7					KM. RCL					NO. RCL 0						
+0.33100										0.90					1.2											
ST 0		ST 1		ST 2 - ST 3		ST 4		BLOCK																		
DATA		TIME		TEMP		WIND SUN		OBS.		REC.																
341		1630		85		22		RH		RW																
0 - WRITE ON TAPE - 4																										
REMARKS										REMARKS																

TBM-2

8407311535.
85.80
1.00 ***
1800240004. ***
159.88 ***
164.50 ***
119.23 ***
124.40 ***
710.73 ***
750.57 ***
0.01 ***
0.50 ***

2.00 ***
1800240004. ***
116.01 ***
126.80 ***
112.03 ***
122.70 ***
703.53 ***
707.52 ***
0.00 ***
0.74 ***

3.00 ***
1800240004. ***
152.11 ***
173.20 ***
148.88 ***
169.50 ***
740.37 ***
743.58 ***
0.02 ***
1.68 ***

4.00 ***
1800240004. ***
120.34 ***
141.30 ***
121.39 ***
142.30 ***
712.90 ***
711.83 ***
0.04 ***
1.78 ***

5.00 ***
1800240004. ***
147.19 ***
168.20 ***
143.59 ***
164.60 ***
735.09 ***
738.68 ***
0.05 ***
1.78 ***

5.00 ***
1800240004. ***
132.62 ***
153.50 ***
117.73 ***
138.50 ***
709.22 ***
724.12 ***
0.04 ***
2.00 ***

7.00 ***
1800240004. ***
127.67 ***
148.40 ***
130.75 ***
151.60 ***
722.24 ***
719.18 ***
0.02 ***
1.75 ***

8.00 ***
1800240004. ***
131.42 ***
152.12 ***
113.35 ***
174.22 ***
704.33 ***
722.89 ***
2.02 ***
1.82 ***

9.00 ***
1800240004. ***
103.07 ***
151.42 ***
135.14 ***
159.70 ***
727.34 ***
721.58 ***
0.21 ***
2.75 ***

10.00 ***
1800240004. ***
133.42 ***
143.35 ***
154.42 ***
730.01 ***
731.01 ***
0.11 ***
1.75 ***

11.00 ***
12.00 ***
1800240004. ***
118.01 ***
139.70 ***
194.82 ***
216.00 ***
786.30 ***
709.50 ***
-0.02 ***
2.82 ***

451.16 ***
448.34 ***
33.89 ***
33.11 ***
0.90 ***
0.3310 ***

15. ***
1630.00
85.00

TT-153

GEODETIC LEVELING

LINE		TAPE NO.									
PROJ. NO. 5021		PAGE					OF				
ST 0	ST 1	ST 2	ST 3								
DATA	YR. MO. DY.	ZONE	INST. NO.	CODE							
4	0										
ST 4			ST 5								
ROD NO. 1			ROD NO. 2			CODE					
ST 6		ST 7		ST 8		ST 9		C			
OBSERVER		TIME		LEVEL CONST		C/F		UNITS STAD			
								F M T K M B			
0 - WRITE ON TAPE - 9				BLOCK				-			
ST 0		ST 1		DESIGNATION							
DATA		FROM:		TBM-2							
4		0024									
		ST 2		DESIGNATION							
		TO:		T-214							
		0005									
ST 3		ST 4		ST 5		ST 6		ST 7		BLOCK	
TIME		TEMP		WIND		SUN		DATE		-	
0900		84		22		28		40801			
0 - WRITE ON TAPE - 7				f-CLEAR				ST ^{CHS} SIGN 9			
ELEV. DIFF.		RCL 7		KM. RCL		NO. RCL		0			
		-0.41035		0.69		10					
ST 0		ST 1		ST 2 - ST 3		ST 4		BLOCK			
DATA		TIME		TEMP		WIND SUN		OBS.		REC.	
4		0940		85		22		RH		RW	
0 - WRITE ON TAPE - 4											
REMARKS						REMARKS					

TBM-2

8400010900.
 84.00
 1.00 ***
 1800240005. ***
 171.83 ***
 191.00 ***
 120.15 ***
 140.00 ***
 711.64 ***
 763.33 ***
 -0.01 ***
 -1.36 ***
 2.00 ***
 1800240005. ***
 143.96 ***
 163.90 ***
 159.24 ***
 179.30 ***
 750.75 ***
 735.47 ***
 -0.01 ***
 -1.60 ***
 3.00 ***
 1800240005. ***
 153.82 ***
 173.50 ***
 163.61 ***
 183.10 ***
 755.11 ***
 745.31 ***
 0.00 ***
 -1.22 ***
 4.00 ***
 1800240005. ***
 157.21 ***
 177.40 ***
 160.25 ***
 179.80 ***
 751.73 ***
 748.68 ***
 0.01 ***
 0.06 ***
 5.00 ***
 1800240005. ***
 131.71 ***
 151.00 ***
 138.86 ***
 157.50 ***
 730.35 ***
 723.18 ***
 0.03 ***
 1.36 ***

5.00 ***
 1800240005. ***
 151.34 ***
 170.90 ***
 147.30 ***
 167.00 ***
 738.80 ***
 742.85 ***
 0.02 ***
 1.08 ***
 7.00 ***
 1800240005. ***
 148.56 ***
 167.70 ***
 150.92 ***
 169.60 ***
 742.43 ***
 740.06 ***
 0.03 ***
 2.00 ***
 8.00 ***
 1800240005. ***
 144.17 ***
 164.00 ***
 144.47 ***
 164.10 ***
 735.98 ***
 735.67 ***
 0.04 ***
 2.40 ***
 3.00 ***
 1800240005. ***
 142.19 ***
 152.80 ***
 142.38 ***
 152.90 ***
 733.88 ***
 733.69 ***
 0.04 ***
 2.58 ***
 10.00 ***
 1800240005. ***
 145.95 ***
 151.20 ***
 204.57 ***
 210.40 ***
 735.87 ***
 737.44 ***
 0.05 ***
 1.42 ***

345.32 ***
 343.90 ***
 -41.01 ***
 -41.06 ***
 0.69 ***
 -0.4104 ***
 16. ***
 0540.00
 05.00

T-214

GEODETIC LEVELING

LINE										TAPE NO.																			
PROJ. NO. 5021										PAGE OF																			
ST 0		ST 1				ST 2		ST 3																					
DATA		YR. MO. DY.				ZONE		INST. NO.		CODE																			
40																													
ST 4					ST 5																								
ROD NO. 1					CODE					ROD NO. 2					CODE														
ST 6			ST 7			ST 8			ST 9			C																	
OBSERVER			TIME			LEVEL			CONST. C/F			UNITS			STAD.			F											
												F			M			T K M B B											
0 - WRITE ON TAPE - 9										BLOCK - R																			
ST 0		ST 1				DESIGNATION																							
DATA		FROM:				T-214																							
41		0005																											
		ST 2				DESIGNATION																							
		TO:				TBM-2																							
		0024																											
ST 3		ST 4		ST 5		ST 6		ST 7		BLOCK																			
TIME		TEMP		WIND		SUN		DATE		-																			
12:50		88		22		28		40802																					
0 - WRITE ON TAPE - 7										f-CLEAR ST SIGN 9																			
ELEV. DIFF.										RCL 7										IKM. RCL NO. RCL 0									
+0.41115										0.70										10									
ST 0		ST 1				ST 2 - ST 3		ST 4		BLOCK																			
DATA		TIME				TEMP		WIND SUN		OBS.		REC.		-															
41		13:30				88		22		RH		RW																	
0 - WRITE ON TAPE - 4																													
REMARKS										REMARKS																			

T-214

840001:250.

89.00
 1.00 ***
 1800050024. ***
 139.91 ***
 194.20 ***
 130.25 ***
 135.20 ***
 731.73 ***
 730.42 ***
 -0.01 ***
 -1.36 ***

2.00 ***
 1800050024. ***
 145.05 ***
 156.30 ***
 141.13 ***
 151.97 ***
 732.87 ***
 736.53 ***
 -0.01 ***
 -0.40 ***

3.00 ***
 1800050024. ***
 143.37 ***
 164.00 ***
 152.20 ***
 172.10 ***
 743.69 ***
 736.86 ***
 -0.01 ***
 -1.34 ***

4.00 ***
 1800050024. ***
 156.04 ***
 175.50 ***
 153.40 ***
 172.50 ***
 744.51 ***
 747.53 ***
 0.01 ***
 -1.42 ***

5.00 ***
 1800050024. ***
 154.12 ***
 173.90 ***
 141.35 ***
 161.10 ***
 732.86 ***
 745.68 ***
 0.04 ***
 -1.36 ***

6.00 ***
 1800050024. ***
 140.32 ***
 159.50 ***
 149.13 ***
 169.00 ***
 740.62 ***
 731.81 ***
 0.04 ***
 -2.74 ***

7.00 ***
 1800050024. ***
 163.15 ***
 183.00 ***
 160.35 ***
 180.20 ***
 751.85 ***
 754.65 ***
 0.04 ***
 -2.74 ***

8.00 ***
 1800050024. ***
 164.03 ***
 184.30 ***
 141.90 ***
 161.20 ***
 733.39 ***
 755.53 ***
 0.03 ***
 -0.88 ***

9.00 ***
 1800050024. ***
 152.64 ***
 173.00 ***
 153.54 ***
 173.60 ***
 745.05 ***
 744.13 ***
 0.05 ***
 -0.20 ***

10.00 ***
 1800050024. ***
 142.28 ***
 161.50 ***
 167.53 ***
 207.20 ***
 739.04 ***
 733.77 ***
 0.07 ***
 -1.10 ***

346.18 ***
 349.28 ***
 41.15 ***
 41.08 ***
 0.79 ***
 0.4112 ***
 16. ***

1330.00
 38.00

TBM-2

GEODETIC LEVELING

LINE		TAPE NO.					
PROJ. NO. 5021		PAGE				OF	
ST 0	ST 1	ST 2	ST 3				
DATA	YR. MO. DY.	ZONE	INST. NO.	CODE			
3 4 0							
ST 4			ST 5				
ROD NO. 1			CODE	ROD NO. 2		CODE	
ST 6	ST 7	ST 8	ST 9	C			
OBSERVER	TIME	LEVEL CONST	C/F	UNITS	STAC	F	
				F M T K M		B	
0 - WRITE ON TAPE - 9			BLOCK	R			
ST 0	ST 1	DESIGNATION					
DATA	FROM:	T-214					
3 4 1	0 0 0 5						
	ST 2	DESIGNATION					
	TO:	U-214					
	0 0 2 7						
ST 3	ST 4	ST 5	ST 6	ST 7	BLOCK		
TIME	TEMP	WIND	SUN	DATE	-		
0 9 4 0	8 5	2 2	2 8 4	0 8 0 1			
0 - WRITE ON TAPE - 7			f-CLEAR	ST SIGN 9			
ELEV. DIFF.		RCL 7	IKM. RCL		NO. RCL. 0		
- 0 . 6 0 8 0 5		1 . 6 3		2 0			
ST 0	ST 1	ST 2 - ST 3	ST 4	BLOCK			
DATA	TIME	TEMP	WIND SUN	OBS.	REC.	-	
3 4 1	1 1 2 0	8 5 2 2	RH RW				
0 - WRITE ON TAPE - 4							
REMARKS			REMARKS				

T-214

8400010940.
35.00
1.00 ***
1000050027. ***
192.64 ***
212.00 ***
140.92 ***
161.40 ***
732.42 ***
784.14 ***
0.00 ***
-0.64 ***

2.00 ***
1000050027. ***
143.24 ***
163.90 ***
147.37 ***
168.00 ***
738.88 ***
734.72 ***
0.03 ***
-0.50 ***

3.00 ***
1000050027. ***
148.96 ***
169.20 ***
146.21 ***
160.60 ***
739.70 ***
740.46 ***
0.02 ***
-0.80 ***

4.00 ***
1000050027. ***
142.02 ***
167.00 ***
154.00 ***
174.50 ***
745.56 ***
733.52 ***
0.00 ***
0.24 ***

5.00 ***
1000050027. ***
148.31 ***
168.40 ***
142.92 ***
165.20 ***
734.42 ***
739.92 ***
-0.01 ***
-0.14 ***

6.00 ***
1000050027. ***
151.60 ***
171.90 ***
136.41 ***
157.00 ***
727.90 ***
743.09 ***
-0.01 ***
-0.72 ***

7.00 ***
1000050027. ***
137.57 ***
150.30 ***
150.43 ***
171.00 ***
741.93 ***
739.07 ***
-0.01 ***
-0.40 ***

8.00 ***
1000050027. ***
150.63 ***
171.20 ***
154.40 ***
174.70 ***
745.89 ***
742.09 ***
0.02 ***
0.14 ***

9.00 ***
1000050027. ***
155.95 ***
177.20 ***
152.33 ***
174.20 ***
743.84 ***
747.44 ***
0.04 ***
-1.50 ***

10.00 ***
1000050027. ***
151.87 ***
173.00 ***
157.19 ***
178.70 ***
748.70 ***
743.16 ***
0.06 ***
-1.86 ***

11.00 ***
1000050027. ***
156.57 ***
177.70 ***
159.16 ***
180.40 ***
750.67 ***
746.97 ***
0.07 ***
-2.05 ***

12.00
1000050027.
152.76
173.40
150.25
170.80
741.77
744.28
0.00
-1.52 ***

13.00 ***
1000050027. ***
147.53 ***
166.00 ***
148.88 ***
169.50 ***
740.37 ***
739.03 ***
0.07 ***
-0.22 ***

14.00 ***
1000050027. ***
149.89 ***
170.80 ***
150.73 ***
171.70 ***
742.21 ***
741.36 ***
0.06 ***
-0.34 ***

15.00 ***
1000050027. ***
160.34 ***
181.40 ***
154.55 ***
175.20 ***
746.05 ***
751.86 ***
0.04 ***
0.48 ***

16.00 ***
1000050027. ***
140.59 ***
161.00 ***
148.79 ***
158.90 ***
740.29 ***
732.00 ***
0.05 ***
1.00 *

CONT. Next Page

17.00 ***
1800050027. ***
142.21 ***
162.79 ***
151.95 ***
172.50 ***
743.44 ***
733.70 ***
0.05 ***
0.96 ***

18.00 ***
1800050027. ***
151.57 ***
172.00 ***
152.05 ***
173.00 ***
743.55 ***
743.08 ***
0.04 ***
-0.08 ***

19.00 ***
1800050027. ***
146.76 ***
167.10 ***
142.96 ***
162.90 ***
734.46 ***
738.25 ***
0.05 ***
0.72 ***

20.00 ***
1800050027. ***
139.05 ***
152.60 ***
227.07 ***
241.10 ***
818.57 ***
738.55 ***
0.05 ***
-0.24 ***

812.64 ***
812.88 ***
-60.78 ***
-60.83 ***
1.63 ***
-0.6081 ***

16. ***

8408011120.
65.00

U-214

GEODETIC LEVELING

LINE										TAPE NO.									
PROJ. NO. 5021										PAGE OF									
ST 0		ST 1				ST 2		ST 3											
DATA		YR. MO. DY.				ZONE		INST. NO.				CODE							
40																			
ST 4					ST 5														
ROD NO. 1					CODE					ROD NO. 2					CODE				
ST 6			ST 7			ST 8			ST 9			C							
OBSERVER			TIME			LEVEL			CONST			C/F UNITS		STAD		F			
												F M T K M		✓ B					
0 - WRITE ON TAPE - 9										BLOCK - R									
ST 0		ST 1		DESIGNATION															
DATA		FROM:		U-214															
41		0027																	
		ST 2		DESIGNATION															
		TO:		T-214															
		0005																	
ST 3		ST 4		ST 5		ST 6		ST 7		BLOCK									
TIME		TEMP		WIND		SUN		DATE		-									
1040		86		22		28		40802											
0 - WRITE ON TAPE - 7										f-CLEAR ST SIGN 9									
ELEV. DIFF.										RCL 7 KM. RCL NO. RCL 0									
+0.61210										1.6320									
ST 0		ST 1		ST 2 - ST 3		ST 4		BLOCK											
DATA		TIME		TEMP		WIND SUN		OBS. REC.		-									
341		1200		88		22		RH RW											
0 - WRITE ON TAPE - 4																			
REMARKS										REMARKS									

U-214

8408021040.
 86.82
 1.35 ***
 1800270005. ***
 227.39 ***
 241.30 ***
 136.41 ***
 149.60 ***
 727.92 ***
 818.98 ***
 0.02 ***
 1.44 ***
 2.05 ***
 1800270005. ***
 147.65 ***
 158.00 ***
 157.99 ***
 178.10 ***
 749.45 ***
 739.14 ***
 0.02 ***
 1.62 ***
 3.03 ***
 1800270005. ***
 157.49 ***
 178.10 ***
 158.88 ***
 171.10 ***
 742.39 ***
 748.99 ***
 0.03 ***
 2.70 ***
 4.00 ***
 1800270005. ***
 160.58 ***
 191.30 ***
 157.05 ***
 177.90 ***
 748.55 ***
 752.07 ***
 0.04 ***
 2.44 ***
 5.00 ***
 1800270005. ***
 159.07 ***
 179.90 ***
 142.12 ***
 163.00 ***
 735.53 ***
 750.56 ***
 0.04 ***
 2.34 ***

5.00 ***
 1800270005. ***
 150.89 ***
 171.50 ***
 160.50 ***
 181.20 ***
 752.00 ***
 742.38 ***
 0.65 ***
 2.16 ***
 7.00 ***
 1800270005. ***
 157.25 ***
 178.50 ***
 150.50 ***
 172.00 ***
 742.01 ***
 748.73 ***
 0.06 ***
 1.70 ***
 8.00 ***
 1800270005. ***
 143.73 ***
 164.50 ***
 150.45 ***
 171.60 ***
 741.97 ***
 735.23 ***
 0.05 ***
 1.00 ***
 9.00 ***
 1800270005. ***
 156.92 ***
 177.30 ***
 158.65 ***
 179.20 ***
 750.17 ***
 748.41 ***
 0.07 ***
 0.68 ***
 10.00 ***
 1800270005. ***
 167.00 ***
 186.00 ***
 163.06 ***
 184.70 ***
 754.55 ***
 750.59 ***
 0.06 ***
 0.84 ***
 11.00 ***
 1800270005. ***
 181.91 ***
 182.60 ***
 150.91 ***
 172.00 ***
 742.42 ***
 753.42 ***
 0.08 ***

12.00
 1800270005. ***
 142.65
 164.00
 154.93
 175.60
 746.44 ***
 734.15 ***
 0.07 ***
 1.00 ***
 13.00 ***
 1800270005. ***
 166.65 ***
 166.40 ***
 162.59 ***
 183.00 ***
 754.00 ***
 757.15 ***
 0.06 ***
 1.68 ***
 14.00 ***
 1800270005. ***
 156.54 ***
 177.30 ***
 141.07 *
 162.10 *
 733.37 ***
 748.03 *
 0.07 *
 2.74 *
 15.00 ***
 1800270005. ***
 148.51 ***
 169.00 ***
 163.70 ***
 183.90 ***
 755.25 ***
 740.01 ***
 0.06 ***
 3.44 ***
 16.00 ***
 1800270005. ***
 148.22 ***
 168.70 ***
 155.45 *
 175.90 *
 746.94 *
 732.73 *
 0.04 *
 3.50 *

Cont. Next Page

17.00 ***
1900270005. ***
157.83 ***
177.80 ***
143.83 ***
164.40 ***
735.34 ***
749.33 ***
0.85 ***
1.90 ***

18.00 ***
1900270005. ***
146.56 ***
166.70 ***
147.37 ***
168.10 ***
738.87 ***
738.05 ***
0.06 ***
0.72 ***

19.00 ***
1900270005. ***
157.10 ***
177.90 ***
153.35 ***
173.90 ***
744.85 ***
746.59 ***
0.07 ***
1.22 ***

20.00 ***
1900270005. ***
149.74 ***
170.40 ***
199.79 ***
219.70 ***
791.28 ***
741.24 ***
0.06 ***
2.72 ***

814.12 ***
811.40 ***
61.24 ***
61.18 ***
1.63 ***
0.6121 ***

16. ***

1200.00
65.00

T-214

GEODETIC LEVELING

LINE										TAPE NO.														
PROJ. NO. 5021										PAGE					OF									
ST 0			ST 1				ST 2			ST 3														
DATA			YR. MO. DY.				ZONE			INST. NO.				CODE										
40																								
ST 4										ST 5														
ROD NO. 1					CODE					ROD NO. 2					CODE									
ST 6			ST 7				ST 8			ST 9				C										
OBSERVER			TIME				LEVEL			CONST. C/F				UNTS STAD. ✓ F										
										F M T K M				B										
0 - WRITE ON TAPE - 9										BLOCK					-					R				
ST 0			ST 1				DESIGNATION																	
DATA			FROM:				U-214																	
41			0027																					
			ST 2				DESIGNATION																	
			TO:				V-214																	
			0028																					
ST 3			ST 4				ST 5		ST 6		ST 7		BLOCK											
TIME			TEMP				WIND		SUN		DATE		-											
0915			85				22		28		40802													
0 - WRITE ON TAPE - 7										f-CLEAR					ST SIGN 9									
ELEV. DIFF.										RCL 7					KM. RCL. NO. RCL. 0									
+0.3110										0.78					10									
ST 0			ST 1				ST 2 - ST 3		ST 4		BLOCK													
DATA			TIME				TEMP		WIND SUN		OBS.		REC.											
341			1000				86		22		RH		RW											
0 - WRITE ON TAPE - 4																								
REMARKS										REMARKS														

U-214

8408028915.
 85.00
 1.00 ***
 1800270028. ***
 220.52 ***
 234.20 ***
 132.52 ***
 145.10 ***
 724.02 ***
 512.02 ***
 0.20 ***
 0.11 ***
 2.00 ***
 1800270028. ***
 144.48 ***
 155.80 ***
 132.53 ***
 153.60 ***
 724.04 ***
 735.99 ***
 0.00 ***
 0.70 ***
 3.00 ***
 1800270028. ***
 159.73 ***
 161.00 ***
 151.53 ***
 172.90 ***
 745.04 ***
 731.22 ***
 0.02 ***
 0.50 ***
 4.00 ***
 1800270028. ***
 152.10 ***
 174.50 ***
 137.93 ***
 160.30 ***
 729.43 ***
 743.58 ***
 0.04 ***
 0.55 ***
 5.00 ***
 1800270028. ***
 146.88 ***
 168.50 ***
 147.62 ***
 169.60 ***
 739.11 ***
 730.38 ***
 0.03 ***
 -0.15 ***

6.00 ***
 1800270028. ***
 175.12 ***
 157.60 ***
 148.95 ***
 170.50 ***
 749.44 ***
 726.61 ***
 0.03 ***
 1.70 ***
 7.00 ***
 1800270028. ***
 147.27 ***
 169.50 ***
 157.86 ***
 180.50 ***
 749.36 ***
 738.76 ***
 0.04 ***
 0.88 ***
 8.00 ***
 1800270028. ***
 155.34 ***
 178.00 ***
 137.21 ***
 159.20 ***
 729.71 ***
 746.83 ***
 0.05 ***
 2.22 ***
 9.00 ***
 1800270028. ***
 164.92 ***
 187.10 ***
 148.75 ***
 171.30 ***
 740.25 ***
 756.43 ***
 0.03 ***
 1.50 ***
 10.00 ***
 1800270028. ***
 84.27 ***
 90.00 ***
 164.59 ***
 170.50 ***
 756.89 ***
 675.76 ***
 0.04 ***
 1.14 ***
 391.14 ***
 390.00 ***
 31.13 ***
 31.29 ***
 0.78 ***
 0.7111 ***
 15. ***

U-214

GEODETIC LEVELING

LINE										TAPE NO.																													
PROJ. NO. 5021										PAGE OF																													
ST 0		ST 1				ST 2		ST 3																															
DATA		YR. MO. DY				ZONE		INST. NO.		CODE																													
40																																							
ST 4					ST 5																																		
ROD NO. 1					CODE					ROD NO. 2					CODE																								
ST 6			ST 7			ST 8			ST 9			C																											
OBSERVER			TIME			LEVEL CONST			C/F			UNTS			STAD			F																					
									F			M			T			K			M			B															
0 - WRITE ON TAPE - 9										BLOCK										-										R									
ST 0		ST 1		DESIGNATION																																			
DATA		FROM:		V-214																																			
41		0028																																					
		ST 2		DESIGNATION																																			
		TO:		U-214																																			
		0027																																					
ST 3		ST 4		ST 5		ST 6		ST 7		BLOCK																													
TIME		TEMP		WIND		SUN		DATE		-																													
1000		86		22		28		40802																															
0 - WRITE ON TAPE - 7										f-CLEAR										ST SIGN 9																			
ELEV. DIFF.										RCL 7										KM. RCL										NO. RCL. 0									
-0.31155										0.78										10																			
ST 0		ST 1		ST 2 - ST 3		ST 4		BLOCK																															
DATA		TIME		TEMP		WIND SUN		OBS.		REC.		-																											
41		1040		86		22		RH		RW																													
0 - WRITE ON TAPE - 4																																							
REMARKS										REMARKS																													

V-214

8400021000.
 26.00
 1.00 ***
 1800280027. ***
 161.83 ***
 167.30 ***
 81.52 ***
 87.20 ***
 673.02 ***
 753.33 ***
 6.00 ***
 -0.42 ***
 2.00 ***
 1800280027. ***
 149.36 ***
 172.30 ***
 165.53 ***
 188.00 ***
 757.04 ***
 740.86 ***
 0.01 ***
 0.52 ***
 3.00 ***
 1800280027. ***
 133.89 ***
 155.40 ***
 153.64 ***
 176.00 ***
 745.14 ***
 725.38 ***
 0.02 ***
 -1.18 ***
 4.00 ***
 1800280027. ***
 157.59 ***
 180.50 ***
 145.53 ***
 167.50 ***
 737.03 ***
 749.09 ***
 0.02 ***
 0.70 ***
 5.00 ***
 1800280027. ***
 147.57 ***
 169.60 ***
 137.57 ***
 159.60 ***
 729.07 ***
 739.07 ***
 0.02 ***
 0.70 ***

6.30 ***
 1800280027. ***
 152.30 ***
 174.70 ***
 155.53 ***
 177.50 ***
 747.03 ***
 745.50 ***
 0.02 ***
 1.55 ***
 7.00 ***
 1800280027. ***
 145.50 ***
 169.10 ***
 150.13 ***
 172.60 ***
 741.59 ***
 737.39 ***
 0.04 ***
 1.12 ***
 8.00 ***
 1800280027. ***
 155.71 ***
 176.90 ***
 151.44 ***
 172.90 ***
 742.95 ***
 747.20 ***
 0.06 ***
 0.58 ***
 9.00 ***
 1800280027. ***
 147.11 ***
 158.50 ***
 155.26 ***
 177.80 ***
 747.76 ***
 738.60 ***
 0.37 ***
 0.43 ***
 10.00 ***
 1800280027. ***
 143.53 ***
 157.10 ***
 228.70 ***
 242.30 ***
 820.21 ***
 735.02 ***
 0.09 ***
 0.42 ***
 391.42 ***
 391.00 ***
 -31.11 ***
 -31.60 ***
 0.78 ***
 -0.3115 ***
 15. ***

U-214

GEODETIC LEVELING

LINE		TAPE NO.					
PROJ. NO. 5021		PAGE				OF	
ST 0	ST 1	ST 2	ST 3				
DATA	YR. MO. DY.	ZONE	INST. NO.		CODE		
40							
ST 4			ST 5				
ROD NO. 1			CODE		ROD NO. 2		
ST 6		ST 7	ST 8		ST 9	C	
OBSERVER		TIME	LEVEL CONST		C/F	UNITS	
						STAD	
						F	
						B	
						R	
0 - WRITE ON TAPE - 9				BLOCK			
ST 0	ST 1	DESIGNATION					
DATA	FROM:	TT-159					
41	0004						
	ST 2	DESIGNATION					
	TO:	LSU-5-12					
	0006						
ST 3	ST 4	ST 5	ST 6	ST 7	BLOCK		
TIME	TEMP	WIND	SUN	DATE			
1415	88	2	2	640802			
0 - WRITE ON TAPE - 7				5 - CLEAR		ST SIGN 9	
ELEV. DIFF.		RCL 7	KM. RCL		NO. RCL 0		
-0.30535		0.15		02			
ST 0	ST 1	ST 2 - ST 3		ST 4	BLOCK		
DATA	TIME	TEMP	WIND	SUN	OBS.	REC.	
41	1425	88	2	2	RH	RW	
0 - WRITE ON TAPE - 4							
REMARKS			REMARKS				

GEODETIC LEVELING

LINE										TAPE NO.																			
PROJ. NO. 5021										PAGE OF																			
ST 0		ST 1				ST 2		ST 3																					
DATA		YR. MO. DY.				ZONE		INST. NO.		CODE																			
40																													
ST 4										ST 5																			
ROD NO. 1					CODE					ROD NO. 2					CODE														
ST 6			ST 7			ST 8			ST 9			C																	
OBSERVER			TIME			LEVEL CONST			C/F			UNITS			STAD			F											
										F M T K M B																			
0 - WRITE ON TAPE - 9										BLOCK																			
ST 0		ST 1		DESIGNATION																									
DATA		FROM:		LSU-5-12																									
41		0006																											
		ST 2		DESIGNATION																									
		TO:		TT-159																									
		0004																											
		ST 3		ST 4		ST 5		ST 6		ST 7		BLOCK																	
		TIME		TEMP		WIND		SUN		DATE		-																	
		10.05		83		22		20		40807																			
0 - WRITE ON TAPE - 7										f-CLEAR										ST SIGN 9									
ELEV. DIFF.										RCL 7										KM. RCL NO. RCL 0									
										+0.30570										0.1502									
ST 0		ST 1		ST 2 - ST 3		ST 4		BLOCK																					
DATA		TIME		TEMP		WIND SUN		OBS.		REC.		-																	
41		09.15		83		22		RH		RW																			
0 - WRITE ON TAPE - 4																													
REMARKS										REMARKS																			

TT-159

8400021415.
 88.00
 1.00 ***
 1800040006. ***
 159.74 ***
 188.10 ***
 133.11 ***
 155.10 ***
 726.69 ***
 751.21 ***
 0.02 ***
 -1.25 ***

 2.00 ***
 1800040006. ***
 133.75 ***
 158.10 ***
 188.90 ***
 264.80 ***
 788.41 ***
 725.25 ***
 0.03 ***
 -0.36 ***

 73.42 ***
 73.78 ***
 -30.52 ***
 -30.53 ***
 0.15 ***
 -0.3054 ***

 16. ***

 1425.00
 88.00

LSU-S-12

8400071005.
 83.00
 1.00 ***
 1800060004. ***
 201.28 ***
 317.30 ***
 143.98 ***
 168.50 ***
 735.47 ***
 792.77 ***
 0.00 ***
 -1.00 ***

 2.00 ***
 1800060004. ***
 149.69 ***
 170.20 ***
 176.41 ***
 197.10 ***
 767.92 ***
 741.18 ***
 0.02 ***
 -1.36 ***

 73.06 ***
 74.42 ***
 30.58 ***
 30.56 ***
 0.15 ***
 0.3057 ***

 16. ***

 0915.00
 83.00

LSU-S-12

TT-159

GEODETIC LEVELING

LINE		TAPE NO.					
PROJ. NO. 5021		PAGE		OF			
ST 0	ST 1	ST 2	ST 3				
DATA	YR. MO. DY.	ZONE	INST. NO.				CODE
40							
ST 4			ST 5				
ROD NO. 1			CODE		ROD NO. 2		CODE
ST 6	ST 7	ST 8	ST 9				C
OBSERVER	TIME	LEVEL CONST	C/F	UNTS	STAD	✓ F	
				F	M	T	K
0 - WRITE ON TAPE - 9			BLOCK				R
ST 0	ST 1	DESIGNATION					
DATA	FROM:	LSU-5-12					
41	0006						
	ST 2	DESIGNATION					
	TO:	LSU-5-11					
	0007						
ST 3	ST 4	ST 5	ST 6	ST 7	BLOCK		
TIME	TEMP	WIND	SUN	DATE			
1425	88	2	2	840802			
0 - WRITE ON TAPE - 7			f-CLEAR	ST SIGN			
ELEV. DIFF.		RCL 7	IKM. RCL		NO. RCL. 0		
-0.56630		1.69		20			
ST 0	ST 1	ST 2 - ST 3	ST 4	BLOCK			
DATA	TIME	TEMP	WIND	SUN	OBS.	REC.	-
41	1540	88	2	2	RH	RW	
0 - WRITE ON TAPE - 4							
REMARKS				REMARKS			

LSU-S-12

8469821425.
 88.88
 1.00 ***
 1800060007. ***
 185.58 ***
 194.88 ***
 138.64 ***
 148.40 ***
 722.13 ***
 777.87 ***
 -8.02 ***
 -1.84 ***
 2.00 ***
 1800060007. ***
 137.75 ***
 139.80 ***
 147.20 ***
 189.70 ***
 738.89 ***
 729.26 ***
 -8.84 ***
 -1.94 ***
 3.00 ***
 1800060007. ***
 118.95 ***
 148.50 ***
 133.41 ***
 155.28 ***
 724.92 ***
 718.46 ***
 -8.84 ***
 -2.42 ***
 4.00 ***
 1800060007. ***
 117.22 ***
 139.60 ***
 187.22 ***
 138.38 ***
 898.72 ***
 708.72 ***
 -8.84 ***
 -3.82 ***
 5.00 ***
 1800060007. ***
 114.38 ***
 137.98 ***
 137.54 ***
 139.90 ***
 729.85 ***
 785.76 ***
 -8.81 ***
 -3.18 ***

6.00 ***
 1380060007. ***
 148.55 ***
 163.48 ***
 143.51 ***
 185.38 ***
 735.81 ***
 732.85 ***
 -8.81 ***
 -2.98 ***
 7.00 ***
 1800060007. ***
 138.27 ***
 168.70 ***
 132.87 ***
 154.88 ***
 724.38 ***
 729.78 ***
 -8.81 ***
 -1.98 ***
 8.00 ***
 1800060007. ***
 133.78 ***
 156.88 ***
 141.31 ***
 164.48 ***
 732.88 ***
 725.19 ***
 -8.81 ***
 -3.56 ***
 9.00 ***
 1800060007. ***
 152.54 ***
 175.18 ***
 131.17 ***
 153.58 ***
 722.66 ***
 744.84 ***
 -8.82 ***
 -3.18 ***
 10.00 ***
 1800060007. ***
 117.35 ***
 139.78 ***
 151.29 ***
 173.28 ***
 742.79 ***
 788.86 ***
 -8.83 ***
 -2.22 ***

11.00 ***
 1800060007. ***
 147.81
 178.18
 146.59
 169.18
 738.88
 738.58 ***
 -8.83
 -1.86
 12.00
 1800060007. ***
 166.83 ***
 189.38 ***
 154.23 ***
 176.58 ***
 745.73 ***
 758.32 ***
 -8.82 ***
 -8.66 ***
 13.00 ***
 1800060007. ***
 129.85 ***
 151.58 ***
 141.68 ***
 164.98 ***
 733.11 ***
 728.54 ***
 8.88 ***
 -2.36 ***
 14.00
 1800060007. ***
 143.16
 166.18
 138.31
 152.68
 721.81
 734.63
 8.81
 -1.86 ***
 15.00 ***
 1800060007. ***
 139.88 ***
 162.28 ***
 148.83 ***
 171.88 ***
 739.53 ***
 731.37 ***
 8.82 ***
 -2.36 ***
 16.00 ***
 1800060007. ***
 147.48
 178.88
 159.78
 162.18
 731.28
 738.58
 8.82

Cont. Next Page

17.00 *
1800060007. *:
142.60 **
164.70 **
150.99 **
172.10 **
742.49 **
734.11 **
0.01 **
0.02 **

18.00 ***
1800060007. ***
144.45 ***
166.90 ***
145.45 ***
167.50 ***
736.94 ***
735.94 ***
0.01 ***
0.82 ***

19.00 ***
1800060007. ***
153.58 ***
176.00 ***
148.61 ***
170.50 ***
740.11 ***
745.19 ***
0.00 ***
1.60 ***

20.00 ***
1800060007. ***
163.14 ***
171.60 ***
228.33 ***
237.20 ***
819.83 ***
754.64 ***
0.00 ***
0.96 ***

843.26 ***
842.49 ***
-56.63 ***
-56.63 ***
1.69 ***
-0.5663 ***

16. ***

1540.00
88.00

LSU-5-11

GEODETIC LEVELING

LINE										TAPE NO.																													
PROJ. NO. 5021										PAGE OF																													
ST 0					ST 1					ST 2					ST 3																								
DATA					YR. MO. DY.					ZONE INST. NO.					CODE																								
40																																							
ST 4										ST 5																													
ROD NO. 1					CODE					ROD NO. 2					CODE																								
ST 6					ST 7					ST 8					ST 9					C																			
OBSERVER					TIME					LEVEL CONST					C/F UNITS					STAD	F																		
															F M T K M					✓	B																		
0 - WRITE ON TAPE - 9										BLOCK										-	R																		
ST 0					ST 1					DESIGNATION																													
DATA					FROM:					LSU-S-11																													
41					0007																																		
					ST 2					DESIGNATION																													
					TO:					LSU-S-12																													
					0006																																		
ST 3					ST 4					ST 5					ST 6					ST 7					BLOCK														
TIME					TEMP					WIND					SUN					DATE					-														
0900					81					22					2A					40807																			
0 - WRITE ON TAPE - 7										f-CLEAR										ST SIGN 9																			
ELEV. DIFF.										RCL 7										KM. RCL										NO. RCL 0									
										+0.56450										1.66										20									
ST 0					ST 1					ST 2 - ST 3					ST 4					BLOCK																			
DATA					TIME					TEMP					WIND					SUN					OBS.					REC.					-				
341					1005					8.3					22					RH					RW														
0 - WRITE ON TAPE - 4																																							
REMARKS																				REMARKS																			

LSU-S-11

8488878988.
 81.00
 1.00 ***
 1888878888. ***
 227.64 ***
 236.10 ***
 171.11 ***
 179.68 ***
 762.61 ***
 819.14 ***
 0.00 ***
 -0.06 ***
 2.00 ***
 1888878888. ***
 155.75 ***
 178.00 ***
 158.18 ***
 188.50 ***
 749.58 ***
 747.25 ***
 0.00 ***
 -0.28 ***
 3.00 ***
 1888878888. ***
 155.51 ***
 177.58 ***
 150.91 ***
 172.78 ***
 742.48 ***
 747.81 ***
 -0.01 ***
 0.28 ***
 4.00 ***
 1888878888. ***
 151.95 ***
 173.50 ***
 148.40 ***
 178.40 ***
 739.98 ***
 743.44 ***
 0.00 ***
 -0.78 ***
 5.00 ***
 1888878888. ***
 149.47 ***
 172.18 ***
 155.84 ***
 178.88 ***
 747.34 ***
 749.98 ***
 -0.01 ***
 0.24 ***

6.00 ***
 1888878888. ***
 154.88 ***
 177.88 ***
 141.89 ***
 164.28 ***
 733.58 ***
 746.38 ***
 0.00 ***
 0.06 ***
 7.00 ***
 1888878888. ***
 139.17 ***
 151.78 ***
 152.89 ***
 175.18 ***
 744.39 ***
 738.62 ***
 0.01 ***
 0.78 ***
 8.00 ***
 1888878888. ***
 146.42 ***
 168.58 ***
 133.86 ***
 155.88 ***
 725.35 ***
 737.93 ***
 -0.01 ***
 1.06 ***
 9.00 ***
 1888878888. ***
 159.82 ***
 181.68 ***
 171.99 ***
 194.38 ***
 753.49 ***
 751.38 ***
 0.01 ***
 0.00 ***
 10.00 ***
 1888878888. ***
 151.43 ***
 174.18 ***
 144.21 ***
 167.00 ***
 735.78 ***
 742.93 ***
 0.00 ***
 -0.24 ***
 11.00 ***
 1888878888. ***
 153.58 ***
 175.58 ***
 125.81 ***
 148.48 ***
 718.38 ***
 745.17 *
 0.00 *
 0.22 *

12.00 ***
 1888878888. *
 135.88 >
 157.78 :
 161.89 :
 184.88 :
 753.48 :
 727.38 :
 0.01 ***
 -0.28 ***
 13.00 ***
 1888878888. ***
 155.78 ***
 178.38 ***
 143.28 ***
 166.88 ***
 734.78 ***
 747.28 ***
 0.01 ***
 -0.44 ***
 14.00 ***
 1888878888. ***
 138.78 ***
 161.88 ***
 158.44 :
 172.68 :
 741.94 :
 738.29 :
 0.01 :
 -0.34 :
 15.00 ***
 1888878888. ***
 154.98 ***
 177.48 ***
 148.38 ***
 171.38 ***
 739.88 ***
 746.48 ***
 0.02 ***
 -1.52 ***
 16.00 ***
 1888878888. ***
 147.94 ***
 178.88 ***
 127.89 ***
 158.88 :
 719.39 :
 739.44 :
 0.82 :
 -1.62 :

Cont. Next Page

17.00 **
1000070006. **
133.85 **
156.00 ***
141.42 ***
164.00 ***
732.93 ***
725.35 ***
0.03 ***
-2.46 ***

18.00 ***
1000070005. ***
156.38 ***
178.20 ***
141.61 ***
163.50 ***
733.12 ***
747.88 ***
0.04 ***
-2.62 ***

19.00 ***
1000070005. ***
153.22 ***
175.50 ***
141.75 ***
164.00 ***
733.26 ***
744.71 ***
0.05 ***
-2.56 ***

20.00 ***
1000070005. ***
152.30 ***
180.50 ***
205.40 ***
213.50 ***
796.90 ***
743.80 ***
0.06 ***
-2.36 ***

831.10 ***
833.46 ***
56.48 ***
56.42 ***
1.66 ***
0.5645 ***

LSU-S-12

16. ***

1005.00
63.00

GEODETIC LEVELING

LINE										TAPE NO.																			
PROJ. NO. 5021										PAGE					OF														
ST 0		ST 1			ST 2		ST 3			CODE																			
DATA		YR. MO. DY.			ZONE		INST. NO.																						
40																													
ST 4					ST 5																								
ROD NO. 1					CODE					ROD NO. 2					CODE														
ST 6			ST 7			ST 8			ST 9			C																	
OBSERVER			TIME			LEVEL			CONST			C/F			UNTS			STAD			F								
												F			M			T			K			M			B		
0 - WRITE ON TAPE - 9										BLOCK										R									
ST 0		ST 1			DESIGNATION																								
DATA		FROM:			LSU-S-11																								
41		0007																											
		ST 2			DESIGNATION																								
		TO:			12-V-4																								
		0008																											
ST 3		ST 4			ST 5		ST 6		ST 7			BLOCK																	
TIME		TEMP			WIND		SUN		DATE																				
1540		88			22		22		840802																				
0 - WRITE ON TAPE - 7										f-CLEAR					ST SIGN 9														
ELEV. DIFF.										RCL 7					KM. RCL NO. RCL 0														
+0.47350										0.65					08														
ST 0		ST 1			ST 2 - ST 3			ST 4			BLOCK																		
DATA		TIME			TEMP			WIND			SUN			OBS. REC.			-												
41		1610			88			22			22			RH RW															
0 - WRITE ON TAPE - 4																													
REMARKS															REMARKS														

LSU-S-11

8400021540.	6.00	***	1800070000.	6.00	***
88.00			155.55	***	
1.00	***		177.90	***	
18000070000.	***		152.25	***	
227.37	***		174.50	***	
236.20	***		743.76	***	
162.16	***		747.04	***	
170.60	***		0.04	***	
753.67	***		0.18	***	
818.86	***				
0.02	***		7.00	***	
0.78	***		18000070000.	***	
			150.75	***	
2.00	***		174.20	***	
18000070000.	***		137.70	***	
139.43	***		160.50	***	
162.40	***		729.19	***	
146.02	***		742.24	***	
169.20	***		0.04	***	
737.51	***		1.48	***	
730.92	***				
0.02	***		8.00	***	
0.36	***		18000070000.	***	
			117.21	***	
3.00	***		134.30	***	
18000070000.	***		143.30	***	
148.40	***		161.10	***	
171.30	***		734.80	***	
145.48	***		700.71	***	
160.30	***		0.04	***	
736.97	***		0.06	***	
739.90	***				
0.01	***		324.70	***	
0.52	***		324.64	***	
			47.37	***	
4.00	***		47.33	***	
18000070000.	***		0.65	***	
144.45	***		0.4735	***	
167.50	***				
145.45	***		16.	***	
167.90	***				
736.96	***		1610.00		
735.95	***		88.00		
0.02	***				
1.72	***				
5.00	***				
18000070000.	***				
151.99	***				
173.70	***				
155.42	***				
170.00	***				
746.90	***				
743.47	***				
0.02	***				
-0.02	***				

12 V4

GEODETIC LEVELING

LINE										TAPE NO.									
PROJ. NO. 5021										PAGE					OF				
ST 0		ST 1			ST 2		ST 3			CODE									
DATA		YR. MO. DY.			ZONE		INST. NO.												
40																			
ST 4					ST 5														
ROD NO. 1					CODE					ROD NO. 2					CODE				
ST 6			ST 7			ST 8			ST 9			C							
OBSERVER			TIME			LEVEL			CONST. C/F			UNITS							
												S T A D							
												F M T K M V B							
0 - WRITE ON TAPE - 9										BLOCK					-				
ST 0		ST 1			DESIGNATION														
DATA		FROM:			12-V-4														
41		0008																	
		ST 2			DESIGNATION														
		TO:			LSU-S-77														
		0007																	
ST 3		ST 4		ST 5		ST 6		ST 7		BLOCK									
TIME		TEMP		WIND		SUN		DATE		-									
0840		81		22		28		40807											
0 - WRITE ON TAPE - 7										f-CLEAR					ST SIGN 9				
ELEV. DIFF.										RCL 7					KM. RCL · NO. RCL 0				
-0.47405										0.64					08				
ST 0		ST 1			ST 2 - ST 3		ST 4			BLOCK									
DATA		TIME			TEMP		WIND		SUN		OBS.		REC.						
41		0900			81		22		2		RH		RW						
0 - WRITE ON TAPE - 4																			
REMARKS										REMARKS									

12 V4

8400070040.
 61.00
 1.00 ***
 1800000007. ***
 151.76 ***
 160.40 ***
 138.55 ***
 155.00 ***
 730.05 ***
 743.25 ***
 0.01 ***
 -1.22 ***
 2.00 ***
 1800000007. ***
 144.20 ***
 157.60 ***
 157.27 ***
 181.20 ***
 740.76 ***
 735.69 ***
 0.01 ***
 -2.28 ***
 3.00 ***
 1800000007. ***
 164.53 ***
 180.60 ***
 155.00 ***
 179.50 ***
 747.31 ***
 756.02 ***
 0.03 ***
 -1.54 ***
 4.00 ***
 1800000007. ***
 154.67 ***
 175.40 ***
 150.03 ***
 171.00 ***
 741.54 ***
 746.15 ***
 0.05 ***
 -2.02 ***
 5.00 ***
 1800000007. ***
 149.90 ***
 172.50 ***
 150.05 ***
 180.50 ***
 750.36 ***
 741.49 ***
 0.05 ***
 -0.28 ***

6.00 ***
 1800000007. ***
 156.10 ***
 179.40 ***
 155.50 ***
 178.30 ***
 747.00 ***
 747.60 ***
 0.05 ***
 0.72 ***
 7.00 ***
 1800000007. ***
 152.00 ***
 175.60 ***
 148.80 ***
 170.90 ***
 740.30 ***
 744.29 ***
 0.06 ***
 2.28 ***
 8.00 ***
 1800000007. ***
 171.36 ***
 179.60 ***
 327.89 ***
 236.10 ***
 819.39 ***
 762.85 ***
 0.07 ***
 2.34 ***
 323.40 ***
 321.05 ***
 -47.37 ***
 -47.44 ***
 0.64 ***
 -0.4741 ***
 16. ***
 0900.00
 81.00

LSU-S-11

GEODETIC LEVELING

LINE										TAPE NO.														
PROJ. NO. 5021										PAGE					OF									
ST 0		ST 1			ST 2		ST 3																	
DATA		YR. MO. DY.			ZONE		INST. NO.			CODE														
40																								
ST 4					ST 5																			
ROD NO. 1					CODE					ROD NO. 2					CODE									
ST 6			ST 7			ST 8			ST 9			C												
OBSERVER			TIME			LEVEL			CONST			C/F			UNITS			STAD			✓ F			
															F M T K M						B			
0 - WRITE ON TAPE - 9										BLOCK					-					R				
ST 0		ST 1			DESIGNATION																			
DATA		FROM:			12-V-4																			
41		0008																						
		ST 2			DESIGNATION																			
		TO:			12-V-5																			
		0009																						
ST 3		ST 4			ST 5		ST 6		ST 7		BLOCK													
TIME		TEMP			WIND		SUN		DATE		-													
09.30		88			2		2		840803															
0 - WRITE ON TAPE - 7										f-CLEAR					ST SIGN 9									
ELEV. DIFF.										RCL 7					KM. RCL					NO. RCL 0				
70.74985										1.27					14									
ST 0		ST 1			ST 2 - ST 3		ST 4			BLOCK														
DATA		TIME			TEMP		WIND		SUN		OBS.			REC.			-							
341		10.15			88		2		2		RH			RW										
0 - WRITE ON TAPE - 4																								
REMARKS										REMARKS														

12 V 4

8400030030.
 89.00
 1.00 ***
 1800000000.
 149.52 ***
 165.90 ***
 132.91 ***
 149.00 ***
 724.41 ***
 741.03 ***
 -0.01 ***
 0.98 ***
 2.00 ***
 1800000000.
 144.53 ***
 166.60 ***
 133.44 ***
 156.10 ***
 724.93 ***
 736.32 ***
 -0.01 ***
 -0.20 ***
 3.00 ***
 1800000000.
 138.08 ***
 161.40 ***
 135.75 ***
 158.40 ***
 727.24 ***
 729.57 ***
 -0.01 ***
 1.14 ***
 4.00 ***
 1800000000.
 151.22 ***
 174.60 ***
 150.22 ***
 173.40 ***
 741.71 ***
 742.70 ***
 0.00 ***
 1.54 ***
 5.00 ***
 1800000000.
 140.55 ***
 164.30 ***
 143.86 ***
 167.30 ***
 735.37 ***
 732.05 ***
 0.00 ***
 2.16 ***

6.00 ***
 1800000000.
 156.20 ***
 160.00 ***
 132.78 ***
 156.30 ***
 724.20 ***
 747.77 ***
 0.02 ***
 2.56 ***
 7.00 ***
 1800000000.
 136.32 ***
 162.60 ***
 128.20 ***
 152.30 ***
 719.71 ***
 729.00 ***
 0.05 ***
 2.92 ***
 6.00 ***
 1800000000.
 147.05 ***
 171.20 ***
 141.20 ***
 166.00 ***
 732.77 ***
 738.55 ***
 0.04 ***
 1.78 ***
 9.00 ***
 1800000000.
 254.62 ***
 278.30 ***
 124.03 ***
 148.30 ***
 715.53 ***
 846.13 ***
 0.03 ***
 0.60 ***
 10.00 ***
 1800000000.
 55.70 ***
 78.50 ***
 173.87 ***
 197.60 ***
 765.38 ***
 647.21 ***
 0.03 ***
 -1.26 ***
 11.00 ***
 1800000000.
 148.98 ***
 172.30 ***
 125.98 ***
 149.60 ***
 717.49 ***
 740.46 ***
 0.06 ***

12.00
 1800000000.
 145.75
 159.10
 138.65
 162.30
 733.16
 737.23
 0.07
 -0.42 ***
 13.00 ***
 1800000000.
 138.36 ***
 166.30 ***
 148.64 ***
 172.00 ***
 740.15 ***
 727.85 ***
 0.09 ***
 0.14 ***
 14.00 ***
 1800000000.
 147.70 ***
 165.30 ***
 170.00 ***
 182.00 ***
 751.51 ***
 739.21 ***
 0.09 ***
 -0.66 ***
 532.92 ***
 533.52 ***
 75.03 ***
 74.94 ***
 1.27 ***
 0.7499 ***
 15. ***

12 V 5

GEODETIC LEVELING

LINE										TAPE NO.									
PROJ. NO. 5021										PAGE					OF				
ST 0			ST 1				ST 2		ST 3										
DATA			YR. MO. DY.				ZONE		INST. NO.			CODE							
40																			
ST 4					ST 5														
ROD NO. 1					CODE					ROD NO. 2					CODE				
ST 6			ST 7			ST 8			ST 9			C							
OBSERVER			TIME			LEVEL			CONST. C/F			UNITS							
												S T A D							
												F M T K M V B							
0 - WRITE ON TAPE - 9										BLOCK					-				
ST 0			ST 1			DESIGNATION													
DATA			FROM:			12-V-5													
41			0009																
			ST 2			DESIGNATION													
			TO:			12-V-4													
			0008																
ST 3			ST 4		ST 5		ST 6		ST 7		BLOCK								
TIME			TEMP		WIND		SUN		DATE		-								
1100			89		22		28		40803										
0 - WRITE ON TAPE - 7										f-CLEAR					ST SIGN 9				
ELEV. DIFF.										RCL 7					KM. RCL NO. RCL 0				
-0.74925										1.27					14				
ST 0			ST 1			ST 2 - ST 3		ST 4			BLOCK								
DATA			TIME			TEMP		WIND		SUN		OBS.		REC.					
41			1150			89		22		28		RH		RW					
0 - WRITE ON TAPE - 4																			
REMARKS															REMARKS				

12 V 5

8400031100.
 89.00
 1.00 ***
 1800090000.
 158.52 ***
 178.30 ***
 141.01 ***
 159.50 ***
 732.50 ***
 750.01 ***
 0.00 ***
 -1.42 ***
 2.00 ***
 1800090000.
 149.04 ***
 173.10 ***
 134.41 ***
 157.80 ***
 725.90 ***
 740.56 ***
 -0.03 ***
 -0.08 ***
 3.00 ***
 1800090000.
 140.05 ***
 164.20 ***
 145.80 ***
 169.10 ***
 737.31 ***
 731.54 ***
 -0.01 ***
 1.62 ***
 4.00 ***
 1800090000.
 124.71 ***
 148.10 ***
 148.19 ***
 171.80 ***
 739.60 ***
 716.22 ***
 -0.03 ***
 1.18 ***
 5.00 ***
 1800090000.
 176.67 ***
 200.50 ***
 59.60 ***
 62.60 ***
 651.17 ***
 753.17 ***
 -0.04 ***
 3.00 ***

6.00 ***
 1800090000.
 127.45 ***
 151.10 ***
 254.70 ***
 278.30 ***
 846.21 ***
 718.93 ***
 -0.01 ***
 3.10 ***
 7.00 ***
 1800090000.
 125.47 ***
 149.30 ***
 136.60 ***
 160.90 ***
 728.11 ***
 716.97 ***
 0.00 ***
 2.16 ***
 8.00 ***
 1800090000.
 129.08 ***
 153.30 ***
 140.56 ***
 164.60 ***
 732.05 ***
 720.59 ***
 -0.02 ***
 2.52 ***
 9.00 ***
 1800090000.
 134.16 ***
 156.90 ***
 152.81 ***
 176.20 ***
 744.30 ***
 725.63 ***
 -0.02 ***
 1.22 ***
 10.00 ***
 1800090000.
 144.27 ***
 168.10 ***
 146.51 ***
 170.50 ***
 738.02 ***
 735.76 ***
 0.00 ***
 0.90 ***
 11.00 ***
 1800090000.
 148.16 ***
 171.30 ***
 145.10 ***
 168.60 ***
 736.66 ***
 739.66 ***
 -0.02 ***

12.00
 1800090000.
 137.28
 160.40
 136.66
 159.50
 728.16
 728.76
 0.00 ***
 0.90 ***
 13.00 ***
 1800090000.
 121.63 ***
 144.00 ***
 131.63 ***
 153.70 ***
 723.13 ***
 713.13 ***
 0.00 ***
 1.50 ***
 14.00 ***
 1800090000.
 142.00 ***
 159.50 ***
 159.74 ***
 177.10 ***
 751.25 ***
 735.56 ***
 0.03 ***
 1.82 ***
 535.86 ***
 533.44 ***
 -74.91 ***
 -74.94 ***
 1.27 ***
 -6.7493 ***
 15. ***

8400031150.
 89.00

12 V 4

GEODETIC LEVELING

LINE										TAPE NO.																													
PROJ. NO. 5021										PAGE OF																													
ST 0		ST 1			ST 2		ST 3			CODE																													
DATA		YR. MO. DY.			ZONE		INST. NO.																																
40																																							
ST 4					ST 5																																		
ROD NO. 1					CODE					ROD NO. 2					CODE																								
ST 6			ST 7			ST 8			ST 9			C																											
OBSERVER			TIME			LEVEL			CONST. C/F			UNITS			STAD			F																					
												F M T K M						B																					
0 - WRITE ON TAPE - 9										BLOCK										-										R									
ST 0		ST 1			DESIGNATION																																		
DATA		FROM:			12-V-5																																		
41		0009																																					
		ST 2			DESIGNATION																																		
		TO:			LSU-S-9																																		
		0010																																					
ST 3		ST 4			ST 5		ST 6		ST 7			BLOCK																											
TIME		TEMP			WIND		SUN		DATE			-																											
10.15		88			2		2		840803																														
0 - WRITE ON TAPE - 7										f-CLEAR										ST ⁹ SIGN 9																			
ELEV. DIFF.										RCL 7										KM. RCL										NO. RCL. 0									
										-0.95820										9.32										04									
ST 0		ST 1			ST 2 - ST 3		ST 4			BLOCK																													
DATA		TIME			TEMP		WIND		SUN			OBS.			REC.			-																					
41		10.40			88		2		2			RH			RW																								
0 - WRITE ON TAPE - 4																																							
REMARKS																				REMARKS																			

GEODETIC LEVELING

LINE										TAPE NO.									
PROJ. NO. 5021										PAGE					OF				
ST 0		ST 1			ST 2		ST 3			CODE									
DATA		YR. MO. DY.			ZONE		INST. NO.												
40																			
ST 4					ST 5														
ROD NO. 1					CODE					ROD NO. 2					CODE				
ST 6			ST 7			ST 8			ST 9			C							
OBSERVER			TIME			LEVEL CONST.			C/F			UNITS							
												SSTAD							
												F M T K M							
0 - WRITE ON TAPE - 9										BLOCK					-				
ST 0		ST 1			DESIGNATION														
DATA		FROM:			LSU - S - 9														
41		0010																	
		ST 2			DESIGNATION														
		TO:			12 - V - 5														
		0009																	
ST 3		ST 4		ST 5		ST 6		ST 7		BLOCK									
TIME		TEMP		WIND		SUN		DATE		-									
10.40		88		2		2		040803											
0 - WRITE ON TAPE - 7										f-CLEAR					ST SIGN 9				
ELEV. DIFF.										RCL 7					KM. RCL NO. RCL 0				
70.95885										0.32					04				
ST 0		ST 1			ST 2 - ST 3		ST 4			BLOCK									
DATA		TIME			TEMP		WIND		SUN		OBS.		REC.						
341		11.00			89		2		2		RH		RW						
0 - WRITE ON TAPE - 4																			
REMARKS										REMARKS									

3400031015.
 88.00
 12-Y-5 1.00 ***
 1800090010. ***
 166.11 ***
 193.30 ***
 152.11 ***
 170.40 ***
 743.51 ***
 757.60 ***
 0.01 ***
 1.80 ***

2.00 ***
 1800090010. ***
 137.95 ***
 160.90 ***
 151.12 ***
 174.90 ***
 742.63 ***
 729.47 ***
 0.00 ***
 0.14 ***

3.00 ***
 1800090010. ***
 139.63 ***
 163.00 ***
 146.29 ***
 170.00 ***
 737.70 ***
 731.12 ***
 0.00 ***
 -0.54 ***

4.00 ***
 1800090010. ***
 123.90 ***
 139.10 ***
 213.89 ***
 229.20 ***
 805.38 ***
 715.39 ***
 0.00 ***
 -0.76 ***

161.42 ***
 162.18 ***
 -95.82 ***
 -95.82 ***
 0.32 ***
 -0.3582 ***

LSU-S-9 16. ***
 1040.00
 88.00

8400031040.
 217.84
 1800100009. ***
 217.84 ***
 229.50 ***
 183.85 ***
 139.10 ***
 715.36 ***
 805.33 ***
 0.02 ***
 0.82 ***

2.00 ***
 1800100009. ***
 143.61 ***
 167.00 ***
 141.03 ***
 165.10 ***
 732.54 ***
 735.12 ***
 0.02 ***
 -0.54 ***

3.00 ***
 1800100009. ***
 149.95 ***
 172.90 ***
 131.20 ***
 134.80 ***
 722.70 ***
 741.15 ***
 0.01 ***
 -1.24 ***

4.00 ***
 1800100009. ***
 147.40 ***
 163.40 ***
 162.53 ***
 181.20 ***
 754.04 ***
 738.51 ***
 0.01 ***
 -2.58 ***

160.60 ***
 163.18 ***
 95.89 ***
 95.89 ***
 0.32 ***
 0.3589 ***

12-Y-5 16. ***
 1100.20
 89.00

GEODETIC LEVELING

LINE										TAPE NO.																				
PROJ. NO. 5021										PAGE					OF															
ST 0		ST 1			ST 2		ST 3																							
DATA		YR. MO. DY.			ZONE		INST. NO.			CODE																				
40																														
ST 4					ST 5																									
ROD NO. 1					CODE					ROD NO. 2					CODE															
ST 6			ST 7			ST 8			ST 9			C																		
OBSERVER			TIME			LEVEL			CONST			C/F			UNITS			STAD			F									
												F			M			K			M									
0 - WRITE ON TAPE - 9										BLOCK					-					R										
ST 0		ST 1			DESIGNATION																									
DATA		FROM:			LSU-5-9																									
341		0010																												
		ST 2			DESIGNATION																									
		TO:			LSU-5-10																									
		0011																												
ST 3		ST 4		ST 5		ST 6		ST 7		BLOCK																				
TIME		TEMP		WIND		SUN		DATE		-																				
1025		83		22		28		40807																						
0 - WRITE ON TAPE - 7										f-CLEAR					ST SIGN 9															
ELEV. DIFF.										RCL 7					1KM. RCL					NO. RCL. 0										
-0.21955										1.12					14															
ST 0		ST 1			ST 2 - ST 3		ST 4			BLOCK																				
DATA		TIME			TEMP		WIND		SUN		OBS.			REC.			-													
341		1120			85		22		2		RH			RW																
0 - WRITE ON TAPE - 4																														
REMARKS										REMARKS																				

LSU-5-9

8400071025.
 83.00
 1.00 ***
 1000100011. ***
 229.10 ***
 338.10 ***
 126.09 ***
 134.80 ***
 717.59 ***
 820.59 ***
 0.01 ***
 0.58 ***

 2.00 ***
 1000100011. ***
 154.98 ***
 177.30 ***
 157.20 ***
 179.70 ***
 748.70 ***
 746.47 ***
 0.02 ***
 0.22 ***

 3.00 ***
 1000100011. ***
 161.60 ***
 184.00 ***
 143.97 ***
 162.70 ***
 732.47 ***
 753.11 ***
 0.01 ***
 1.56 ***

 4.00 ***
 1000100011. ***
 145.83 ***
 162.60 ***
 167.97 ***
 190.60 ***
 753.46 ***
 737.32 ***
 0.01 ***
 1.84 ***

 5.00 ***
 1000100011. ***
 158.03 ***
 181.70 ***
 165.03 ***
 188.00 ***
 756.52 ***
 749.53 ***
 0.00 ***
 3.24 ***

6.00 ***
 1000100011. ***
 173.84 ***
 197.30 ***
 167.60 ***
 190.70 ***
 759.11 ***
 765.33 ***
 0.02 ***
 3.96 ***

 7.00 ***
 1000100011. ***
 142.77 ***
 165.10 ***
 160.72 ***
 183.70 ***
 752.21 ***
 734.26 ***
 0.02 ***
 2.66 ***

 8.00 ***
 1000100011. ***
 157.43 ***
 180.00 ***
 169.32 ***
 192.60 ***
 760.82 ***
 748.91 ***
 0.04 ***
 1.24 ***

 9.00 ***
 1000100011. ***
 150.95 ***
 173.10 ***
 144.76 ***
 167.00 ***
 736.25 ***
 742.44 ***
 0.04 ***
 1.06 ***

 10.00 ***
 1000100011. ***
 139.88 ***
 163.00 ***
 161.88 ***
 185.00 ***
 753.38 ***
 731.38 ***
 0.04 ***
 1.06 ***

11.00 #
 1000100011. #
 149.23 #
 173.20 #
 163.29 #
 186.50 #
 754.80 #
 740.73 #
 9.85 #
 2.58 ***

 12.00 ***
 1000100011. ***
 163.52 ***
 186.60 ***
 136.80 ***
 159.90 ***
 729.39 ***
 755.01 ***
 0.07 ***
 2.70 ***

 13.00 ***
 1000100011. ***
 140.71 ***
 150.50 ***
 153.16 ***
 163.30 ***
 744.66 ***
 732.18 ***
 0.10 ***
 2.00 ***

 14.00 ***
 1000100011. ***
 142.55 ***
 151.60 ***
 217.45 ***
 225.70 ***
 808.95 ***
 734.04 ***
 0.11 ***
 3.60 ***

 559.36 ***
 555.76 ***
 -21.90 ***
 -22.01 ***
 1.12 ***
 -0.2196 ***

 16. ***

 1120.00
 85.00

LSU-5-10

GEODETIC LEVELING

LINE										TAPE NO.									
PROJ. NO. 5021										PAGE OF									
ST 0		ST 1				ST 2		ST 3											
DATA		YR. MO. DY.				ZONE		INST. NO.				CODE							
40																			
ST 4					ST 5														
ROD NO. 1					CODE					ROD NO. 2					CODE				
ST 6			ST 7			ST 8			ST 9						C				
OBSERVER			TIME			LEVEL			CONST. C/F			UNITS			STAD. F				
									F			M T K M			B				
0 - WRITE ON TAPE - 9										BLOCK - R									
ST 0		ST 1		DESIGNATION															
DATA		FROM:		LSU-S-10															
41		00/11																	
		ST 2		DESIGNATION															
		TO:		LSU-S-9															
		00/10																	
ST 3		ST 4		ST 5		ST 6		ST 7		BLOCK									
TIME		TEMP		WIND		SUN		DATE		-									
11:20		85		22		22		0807											
0 - WRITE ON TAPE - 7										f-CLEAR ST SIGN 9									
ELEV. DIFF.										RCL 7 KM. RCL NO. RCL 0									
40.22080										1/12 1/4									
ST 0		ST 1		ST 2 - ST 3		ST 4		BLOCK											
DATA		TIME		TEMP		WIND SUN		OBS.		REC.		-							
41		1200		85		22		RH		RW									
0 - WRITE ON TAPE - 4																			
REMARKS										REMARKS									

LSU-S-10

8400071120.
 85.00
 1.00 ***
 1800110010. ***
 216.86 ***
 224.80 ***
 141.16 ***
 150.60 ***
 732.66 ***
 897.55 ***
 0.01 ***
 -1.49 ***
 3.00 ***
 1800110010. ***
 157.75 ***
 167.30 ***
 147.51 ***
 157.50 ***
 739.02 ***
 749.25 ***
 0.02 ***
 -2.28 ***
 3.00 ***
 1800110010. ***
 140.35 ***
 164.50 ***
 159.10 ***
 192.80 ***
 760.61 ***
 731.84 ***
 0.04 ***
 -0.98 ***
 4.00 ***
 1800110010. ***
 167.68 ***
 190.80 ***
 154.88 ***
 177.80 ***
 746.17 ***
 759.17 ***
 0.04 ***
 -0.98 ***
 5.00 ***
 1800110010. ***
 157.45 ***
 190.90 ***
 145.75 ***
 169.00 ***
 737.26 ***
 758.94 ***
 0.06 ***
 -0.58 ***

5.00 ***
 1800110010. ***
 152.12 ***
 179.40 ***
 162.32 ***
 184.80 ***
 753.81 ***
 747.62 ***
 0.05 ***
 1.02 ***
 7.00 ***
 1800110010. ***
 170.77 ***
 153.30 ***
 183.38 ***
 186.40 ***
 754.87 ***
 752.26 ***
 0.05 ***
 0.04 ***
 8.00 ***
 1800110010. ***
 166.61 ***
 189.40 ***
 145.04 ***
 168.50 ***
 736.53 ***
 758.11 ***
 0.04 ***
 -1.30 ***
 3.00 ***
 1800110010. ***
 174.81 ***
 197.30 ***
 179.58 ***
 203.00 ***
 771.08 ***
 766.31 ***
 0.04 ***
 -2.16 ***
 10.00 ***
 1800110010. ***
 175.97 ***
 198.30 ***
 170.70 ***
 193.30 ***
 762.19 ***
 767.46 ***
 0.04 ***
 -2.70 ***

11.00 *
 1800110010. *
 176.40 *
 139.70 *
 153.10 *
 176.50 *
 744.60 *
 767.89 *
 0.05 *
 -2.90 *
 12.00 ***
 1800110010. ***
 149.36 ***
 171.60 ***
 173.60 ***
 196.00 ***
 765.31 ***
 740.85 ***
 0.07 ***
 -2.82 ***
 13.00 ***
 1800110010. ***
 169.20 ***
 191.60 ***
 152.59 ***
 175.20 ***
 744.43 *
 760.70 *
 0.05 *
 -2.44 *
 14.00 *
 1800110010. *
 117.13 *
 125.90 ***
 204.44 ***
 233.00 ***
 815.94 ***
 700.63 ***
 0.06 ***
 -2.02 ***
 559.28 ***
 561.30 ***
 22.11 ***
 22.05 ***
 1.12 ***
 0.2208 ***
 16. *
 1200.00
 95.00

LSU-S-9

GEODETIC LEVELING

LINE										TAPE NO.														
PROJ. NO. 5021										PAGE					OF									
ST 0 DATA		ST 1 YR. MO. DY.			ST 2 ZONE		ST 3 INST. NO.			CODE														
4 0																								
ST 4 ROD NO. 1					CODE					ST 5 ROD NO. 2					CODE									
ST 6 OBSERVER			ST 7 TIME			ST 8 LEVEL CONST			ST 9 C/F			UNTS			STAD			C						
									F			M T K M			B									
0 - WRITE ON TAPE - 9										BLOCK					-					R				
ST 0 DATA		ST 1 FROM:			DESIGNATION																			
4 1		0 0 1 0			LSU-S-9																			
		ST 2 TO:			DESIGNATION																			
		0 0 1 2			12-V-6																			
ST 3 TIME			ST 4 TEMP			ST 5 WIND		ST 6 SUN		ST 7 DATE			BLOCK											
1 2 5 0			8 5			2 2		8 4 0 8 0 7																
0 - WRITE ON TAPE - 7										F-CLEAR					ST ^{CH} _{SIGN} 9									
ELEV. DIFF.										RCL 7					KM. RCL					NO. RCL 0				
+ 0 . 7 3 6 9 0										0 . 9 6					1 2									
ST 0 DATA		ST 1 TIME			ST 2 - ST 3 TEMP			ST 4 WIND SUN			OBS.			REC.			BLOCK							
3 4 1		1 3 3 5			8 5			2 2			RH			RW										
0 - WRITE ON TAPE - 4																								
REMARKS										REMARKS														

GEODETIC LEVELING

LINE		TAPE NO.					
PROJ. NO. 5021		PAGE		OF			
ST 0	ST 1	ST 2	ST 3				
DATA	YR. MO. DY.	ZONE	INST. NO.				CODE
40							
ST 4			ST 5				
ROD NO. 1			CODE	ROD NO. 2		CODE	
ST 6	ST 7	ST 8	ST 9				C
OBSERVER	TIME	LEVEL CONST	C/F	UNTS	STAD	F	
0 - WRITE ON TAPE - 9			BLOCK				R
ST 0	ST 1	DESIGNATION					
DATA	FROM:	12 - V - 6					
41	0012						
	ST 2	DESIGNATION					
	TO:	LSU - 5 - 9.					
	0010						
ST 3	ST 4	ST 5	ST 6	ST 7	BLOCK		
TIME	TEMP	WIND	SUN	DATE			
09.25	85	2	2	840808			
0 - WRITE ON TAPE - 7			f-CLEAR	ST SIGN			
ELEV. DIFF.	RCL 7	KM. RCL	NO. RCL	0			
	-0.73710	0.96	12				
ST 0	ST 1	ST 2 - ST 3	ST 4	BLOCK			
DATA	TIME	TEMP	WIND SUN	OBS.	REC.		
41	10.10	87	22	RH	RW		
0 - WRITE ON TAPE - 4							
REMARKS			REMARKS				

GEODETIC LEVELING

LINE				TAPE NO.			
PROJ. NO. 5021				PAGE		OF	
ST 0	ST 1		ST 2	ST 3			
DATA	YR.	MO.	DY.	ZONE	INST. NO.	CODE	
4	0						
ST 4				ST 5			
ROD NO. 1		CODE		ROD NO. 2		CODE	
ST 6		ST 7		ST 8		ST 9	
OBSERVER		TIME		LEVEL CONST		C/F UNITS STAD	
						C/F	
						F M T K M B	
0 - WRITE ON TAPE - 9				BLOCK		R	
ST 0		ST 1		DESIGNATION			
DATA		FROM:					
4		0012		12-V-6			
		ST 2		DESIGNATION			
		TO:					
		0013		LSU-S-7			
ST 3		ST 4		ST 5		ST 6	
TIME		TEMP		WIND		SUN DATE	
13.35		85		22		2840807	
0 - WRITE ON TAPE - 7				f-CLEAR		ST SIGN 9	
ELEV. DIFF.				RCL 7		KM. RCL NO. RCL 0	
+0.65155				0.88		12	
ST 0		ST 1		ST 2 - ST 3		ST 4	
DATA		TIME		TEMP WIND		SUN OBS. REC.	
4		1415		85 22		RH RW	
0 - WRITE ON TAPE - 4							
REMARKS				REMARKS			

12/16

8488871335.
 85.88
 1.00 ***
 1800120013. ***
 165.14 ***
 179.68 ***
 142.88 ***
 156.89 ***
 733.58 ***
 756.64 ***
 9.00 ***
 -0.52 ***
 2.00 ***
 1800120013. ***
 146.85 ***
 167.20 ***
 150.57 ***
 171.69 ***
 742.88 ***
 737.54 ***
 0.02 ***
 -0.28 ***
 3.00 ***
 1800120013. ***
 164.04 ***
 180.19 ***
 145.25 ***
 161.20 ***
 736.76 ***
 755.53 ***
 8.04 ***
 -0.06 ***
 4.00 ***
 1800120013. ***
 153.55 ***
 174.00 ***
 156.65 ***
 177.20 ***
 748.15 ***
 745.85 ***
 9.04 ***
 -0.26 ***
 5.00 ***
 1800120013. ***
 146.34 ***
 166.60 ***
 141.34 ***
 161.60 ***
 732.85 ***
 737.84 ***
 0.05 ***
 -0.26 ***

6.00 ***
 1800120013. ***
 146.60 ***
 166.68 ***
 135.62 ***
 155.10 ***
 727.13 ***
 738.09 ***
 0.07 ***
 0.78 ***
 7.00 ***
 1800120013. ***
 145.83 ***
 165.80 ***
 145.70 ***
 165.90 ***
 737.21 ***
 736.52 ***
 0.09 ***
 1.92 ***
 8.00 ***
 1800120013. ***
 151.10 ***
 172.19 ***
 150.86 ***
 171.10 ***
 742.35 ***
 742.59 ***
 0.09 ***
 3.44 ***
 9.00 ***
 1800120013. ***
 162.36 ***
 183.10 ***
 136.67 ***
 157.90 ***
 728.18 ***
 753.85 ***
 0.11 ***
 2.46 ***
 10.00 ***
 1800120013. ***
 157.70 ***
 178.80 ***
 140.70 ***
 161.20 ***
 732.19 ***
 749.20 ***
 0.10 ***
 2.96 ***

11.00
 1800120013. ***
 165.34
 165.90
 129.49
 150.50
 729.98
 756.83
 0.10 ***
 1.16 ***
 12.00 ***
 1800120013. ***
 125.42 ***
 131.10 ***
 188.53 ***
 194.20 ***
 760.83 ***
 716.91 ***
 6.11 ***
 1.18 ***
 442.86 ***
 441.68 ***
 63.21 ***
 65.10 ***
 0.88 ***
 0.6516 ***
 16.
 1415.00
 85.88

LSU-S-7

GEODETIC LEVELING

LINE										TAPE NO.									
PROJ. NO. 5021										PAGE OF									
ST 0		ST 1				ST 2		ST 3				CODE							
DATA		YR. MO. DY.				ZONE		INST. NO.											
40																			
ST 4					ST 5					CODE					CODE				
ROD NO. 1					ROD NO. 2														
ST 6			ST 7			ST 8			ST 9			C							
OBSERVER			TIME			LEVEL			CONST. C/F			UNTS			STAD. F				
									F M T K M			V B							
0 - WRITE ON TAPE - 9										BLOCK - R									
ST 0		ST 1		DESIGNATION															
DATA		FROM:		LSU-S-7															
41		0013																	
		ST 2		DESIGNATION															
		TO:		12-V-6															
		0012																	
ST 3		ST 4		ST 5		ST 6		ST 7		BLOCK									
TIME		TEMP		WIND		SUN		DATE											
0850		85		22		28		40808											
0 - WRITE ON TAPE - 7										f-CLEAR ST SIGN 9									
ELEV. DIFF.										RCL 7 KM. RCL NO. RCL 0									
-0.65080										0.88 12									
ST 0		ST 1		ST 2 - ST 3		ST 4		BLOCK											
DATA		TIME		TEMP		WIND SUN		OBS.		REC.									
41		0925		85		22		RH RW											
0 - WRITE ON TAPE - 4																			
REMARKS										REMARKS									

LSU-5-7

8408880855.	8.00	***	1800130012.	8.00	***	
85.00	146.21	***		146.21	***	
1.00	165.90	***		165.90	***	
1800130012.	160.15	***		160.15	***	
178.56	180.80	***		180.80	***	
184.40	751.65	***		751.65	***	11.00
123.01	737.72	***		737.72	***	1800130012.
129.40	0.00	***		0.00	***	154.81
714.51	0.66	***		0.66	***	175.60
770.05						153.23
0.00						-9-
-1.10						174.30
						744.72
2.00						746.31
1800130012.	7.00	***		7.00	***	0.01
142.09	150.35	***		150.35	***	-1.12
153.10	170.10	***		170.10	***	
188.69	138.41	***		138.41	***	12.00
180.90	173.70	***		173.70	***	1800130012.
780.15	749.92	***		749.92	***	158.07
733.59	741.85	***		741.85	***	172.80
0.00	0.01	***		0.01	***	175.11
0.50	-0.42	***		-0.42	***	190.50
						767.51
3.00	8.00	***		8.00	***	749.58
1800130012.	140.36	***		140.36	***	0.00
141.59	158.50	***		158.50	***	-0.44
161.80	141.26	***		141.26	***	
168.89	161.60	***		161.60	***	441.88
185.30	732.73	**		732.73	**	442.32
780.35	739.85	**		739.85	**	-65.03
733.08	0.01	**		0.01	**	-65.08
0.01	-0.82	**		-0.82	**	0.00
3.10						-0.6508
4.00						15.
1800130012.	3.00	***		3.00	***	0925.00
149.60	159.44	***		159.44	***	85.20
170.50	180.20	***		180.20	***	
167.65	168.02	***		168.02	***	
138.40	188.60	***		188.60	***	
759.15	739.52	***		739.52	***	
741.19	750.94	***		750.94	***	
0.00	0.01	***		0.01	***	
0.24	-0.46	***		-0.46	***	
5.00						
1800130012.	10.00	***		10.00	***	
149.25	159.95	***		159.95	***	
170.90	175.40	***		175.40	***	
144.62	173.40	***		173.40	***	
185.30	180.90	***		180.90	***	
735.12	794.90	***		794.90	***	
740.74	751.44	***		751.44	***	
0.01	0.02	***		0.02	***	
0.58	-0.56	***		-0.56	***	

12 V 6

GEODETIC LEVELING

LINE										TAPE NO.																	
PROJ. NO. 5021										PAGE					OF												
ST 0		ST 1			ST 2		ST 3			CODE																	
DATA		YR. MO. DY.			ZONE		INST. NO.																				
40																											
ST 4					ST 5																						
ROD NO. 1					CODE					ROD NO. 2					CODE												
ST 6			ST 7			ST 8			ST 9			C															
OBSERVER			TIME			LEVEL CONST			C/F			UNTS			STAD			F									
												F			M T K M			B									
0 - WRITE ON TAPE - 9										BLOCK					-					R							
ST 0		ST 1			DESIGNATION																						
DATA		FROM:			LSU-S-7																						
41		0013																									
		ST 2			DESIGNATION																						
		TO:			LSU-S-8																						
		0014																									
ST 3		ST 4		ST 5		ST 6		ST 7		BLOCK																	
TIME		TEMP		WIND		SUN		DATE		-																	
14		15		85		22		2840807																			
0 - WRITE ON TAPE - 7										f-CLEAR					ST SIGN 9												
ELEV. DIFF.										RCL 7					KM. RCL NO. RCL 0												
-										1.55405					0.9914												
ST 0		ST 1			ST 2 - ST 3		ST 4			BLOCK																	
DATA		TIME			TEMP		WIND		SUN		OBS.			REC.			-										
41		1505			85		22		2		RH			RW													
0 - WRITE ON TAPE - 4																											
REMARKS										REMARKS																	

LSU-5-7

8488071415.
 85.00
 1.00 ***
 1800130014. ***
 188.52 ***
 194.20 ***
 125.41 ***
 131.10 ***
 716.92 ***
 788.02 ***
 0.01 ***
 -0.02 ***
 2.00 ***
 1800130014. ***
 156.41 ***
 176.60 ***
 138.64 ***
 150.90 ***
 722.15 ***
 747.90 ***
 0.03 ***
 -0.16 ***
 3.00 ***
 1800130014. ***
 152.94 ***
 172.80 ***
 117.63 ***
 138.10 ***
 709.12 ***
 744.43 ***
 0.03 ***
 -1.38 ***
 4.00 ***
 1800130014. ***
 162.99 ***
 183.00 ***
 124.20 ***
 145.20 ***
 715.69 ***
 754.46 ***
 0.03 ***
 -3.36 ***
 5.00 ***
 1800130014. ***
 168.63 ***
 189.10 ***
 152.43 ***
 172.80 ***
 743.32 ***
 750.85 ***
 0.02 ***
 -3.00 ***

6.00 ***
 1800130014. ***
 112.19 ***
 132.90 ***
 143.54 ***
 163.60 ***
 735.04 ***
 703.68 ***
 0.03 ***
 -1.70 ***
 7.00 ***
 1800130014. ***
 103.90 ***
 123.90 ***
 176.49 ***
 199.10 ***
 769.98 ***
 595.40 ***
 0.02 ***
 -2.92 ***
 8.00 ***
 1800130014. ***
 114.95 ***
 135.20 ***
 164.04 ***
 164.20 ***
 755.54 ***
 706.46 ***
 0.01 ***
 -2.74 ***
 9.00 ***
 1800130014. ***
 130.97 ***
 151.20 ***
 156.75 ***
 176.30 ***
 748.25 ***
 722.46 ***
 0.02 ***
 -1.38 ***
 10.00 ***
 1800130014. ***
 129.85 ***
 150.00 ***
 155.75 ***
 175.50 ***
 747.24 ***
 721.34 ***
 0.02 ***
 -0.50 ***

11.00 *
 1800130014. *
 144.66 *
 165.30 *
 156.40 *
 176.60 *
 747.90 *
 736.15 *
 0.03 ***
 0.30 ***
 12.00 ***
 1800130014. ***
 145.50 ***
 165.40 ***
 144.44 ***
 164.50 ***
 735.95 ***
 737.09 ***
 0.05 ***
 -0.22 ***
 13.00 ***
 1800130014. ***
 128.36 ***
 144.10 ***
 147.65 ***
 162.60 ***
 739.14 ***
 719.86 ***
 0.04 ***
 1.36 ***
 14.00 ***
 1800130014. ***
 144.28 ***
 149.00 ***
 242.18 ***
 246.89 ***
 833.68 ***
 735.77 ***
 0.05 ***
 1.56 ***
 497.06 ***
 495.50 *
 -155.38 *
 -155.43 *
 0.99 *
 -1.5541 *
 16. :
 1585.00
 85.00

LSU-5-8

GEODETIC LEVELING

LINE		TAPE NO.											
PROJ. NO. 5021		PAGE					OF						
ST 0	ST 1	ST 2	ST 3										
DATA	YR. MO. DY.	ZONE	INST. NO.	CODE									
4	0												
ST 4			ST 5										
ROD NO. 1			ROD NO. 2			CODE							
ST 6		ST 7		ST 8		ST 9		C					
OBSERVER		TIME		LEVEL CONST		C/F		UNITS		STAD		F	
								F M T K M				B	
0 - WRITE ON TAPE - 9				BLOCK								R	
ST 0		ST 1		DESIGNATION									
DATA		FROM:		LSU-5-8									
4		0014											
		ST 2		DESIGNATION									
		TO:		LSU-5-7									
		0013											
ST 3		ST 4		ST 5		ST 6		ST 7		BLOCK			
TIME		TEMP		WIND		SUN		DATE					
15.30		85		22		28		40807					
0 - WRITE ON TAPE - 7				f-CLEAR		ST SIGN							
ELEV. DIFF.		RCL 7		KM. RCL		NO. RCL		O					
		+1.55325		0.99		14							
ST 0		ST 1		ST 2 - ST 3		ST 4		BLOCK					
DATA		TIME		TEMP		WIND SUN		OBS.		REC.			
4		1605		85		22		RH		RW			
0 - WRITE ON TAPE - 4													
REMARKS					REMARKS								

LSU-5-8

8400071530.
 85.00
 1.00 ***
 1800140013. ***
 243.34 ***
 244.90 ***
 142.44 ***
 146.90 ***
 733.94 ***
 831.84 ***
 0.00 ***
 0.20 ***

 2.20 ***
 1800140013. ***
 146.75 ***
 165.50 ***
 139.59 ***
 155.10 ***
 731.49 ***
 740.24 ***
 0.01 ***
 -0.52 ***

 3.20 ***
 1800140013. ***
 154.74 ***
 174.50 ***
 147.53 ***
 157.40 ***
 739.24 ***
 746.25 ***
 0.03 ***
 -0.74 ***

 4.00 ***
 1800140013. ***
 150.22 ***
 190.70 ***
 150.99 ***
 171.00 ***
 742.48 ***
 751.70 ***
 0.04 ***
 0.20 ***

 5.00 ***
 1800140013. ***
 151.97 ***
 181.70 ***
 142.32 ***
 152.60 ***
 733.81 ***
 753.48 ***
 0.02 ***
 -0.90 ***

6.00 ***
 1800140013. ***
 166.90 ***
 187.10 ***
 128.25 ***
 149.40 ***
 719.75 ***
 758.39 ***
 0.02 ***
 -0.78 ***

 7.00 ***
 1800140013. ***
 165.03 ***
 185.50 ***
 123.03 ***
 143.90 ***
 714.52 ***
 756.53 ***
 0.01 ***
 -1.58 ***

 8.00 ***
 1800140013. ***
 186.19 ***
 207.40 ***
 117.25 ***
 137.80 ***
 700.75 ***
 777.50 ***
 0.02 ***
 -0.26 ***

 9.00 ***
 1800140013. ***
 155.75 ***
 175.80 ***
 110.77 ***
 130.80 ***
 702.97 ***
 747.25 ***
 0.02 ***
 -0.22 ***

 10.00 ***
 1800140013. ***
 146.36 ***
 166.90 ***
 160.70 ***
 169.00 ***
 760.21 ***
 737.85 ***
 0.04 ***
 0.26 ***

11.00
 1800140013.
 136.99
 147.40
 173.00
 194.00
 764.57
 718.49
 0.03
 -0.76 ***

 12.00 ***
 1800140013. ***
 130.90 ***
 150.80 ***
 154.90 ***
 175.10 ***
 746.39 ***
 722.39 ***
 0.03 ***
 -1.36 ***

 13.00 ***
 1800140013. ***
 133.82 ***
 153.90 ***
 164.30 ***
 184.70 ***
 755.00 ***
 725.10 ***
 0.05 ***
 -1.60 ***

 14.00 ***
 1800140013. ***
 121.55 ***
 127.50 ***
 180.40 ***
 156.40 ***
 771.90 ***
 713.05 ***
 0.05 ***
 -1.70 ***

 496.50 ***
 498.20 ***
 155.35 ***
 155.30 ***
 0.99
 1.5533

 16.
 1607.30
 85.00

LSU-5-7

GEODETIC LEVELING

LINE										TAPE NO.														
PROJ. NO. 5021										PAGE					OF									
ST 0			ST 1			ST 2			ST 3			CODE												
DATA			YR. MO. DY.			ZONE			INST. NO.															
40																								
ST 4					ST 5																			
ROD NO. 1					CODE					ROD NO. 2					CODE									
ST 6			ST 7			ST 8			ST 9			C												
OBSERVER			TIME			LEVEL			CONST. C/F			UNITS			STAD.			F						
									F			M T K M			B									
0 - WRITE ON TAPE - 9										BLOCK					-					R				
ST 0			ST 1			DESIGNATION																		
DATA			FROM:			LSU-5-8																		
41			0014																					
			ST 2			DESIGNATION																		
			TO:			12-V-19																		
			0015																					
ST 3			ST 4			ST 5			ST 6			ST 7			BLOCK									
TIME			TEMP			WIND			SUN			DATE			-									
1505			85			22			28			40807												
0 - WRITE ON TAPE - 7										f-CLEAR					ST ^{CHS} SIGN 9									
ELEV. DIFF.										RCL 7					KM. RCL					NO. RCL. 0				
40.39100										0.05					02									
ST 0			ST 1			ST 2 - ST 3			ST 4			BLOCK												
DATA			TIME			TEMP			WIND			SUN			OBS.			REC.			-			
41			1520			85			22			2			RH			RW						
0 - WRITE ON TAPE - 4																								
REMARKS										REMARKS														

GEODETIC LEVELING

LINE										TAPE NO.																
PROJ. NO. 5021										PAGE					OF											
ST 0			ST 1			ST 2			ST 3																	
DATA			YR. MO. DY.			ZONE			INST. NO.			CODE														
40																										
ST 4										ST 5																
ROD NO. 1					CODE					ROD NO. 2					CODE											
ST 6			ST 7			ST 8			ST 9			C														
OBSERVER			TIME			LEVEL			CONST. C/F			UNITS			STAD			F								
										F M T K M V B																
0 - WRITE ON TAPE - 9										BLOCK					-					R						
ST 0			ST 1			DESIGNATION																				
DATA			FROM:			12-Y-19																				
41			0015																							
			ST 2			DESIGNATION																				
			TO:			LSU-S-8																				
			0014																							
ST 3			ST 4			ST 5			ST 6			ST 7			BLOCK											
TIME			TEMP			WIND			SUN			DATE			-											
1520			85			22			28			40			807											
0 - WRITE ON TAPE - 7										f-CLEAR					ST SIGN 9											
ELEV. DIFF.										RCL 7					KM. RCL					NO. RCL. 0						
-0.39										105					0.05					02						
ST 0			ST 1			ST 2 - ST 3			ST 4			BLOCK														
DATA			TIME			TEMP			WIND			SUN			OBS.			REC.				-				
341			1530			85			22			2			RH			RW								
0 - WRITE ON TAPE - 4																										
REMARKS										REMARKS																

LSU-S-8

12V19

8400071505.
 85.00
 1.00 ***
 1800140015. ***
 242.15 ***
 245.88 ***
 144.25 ***
 149.00 ***
 735.75 ***
 833.65 ***
 0.00 ***
 -0.20 ***

 2.00 ***
 1800140015. ***
 89.98 ***
 97.00 ***
 148.77 ***
 156.30 ***
 740.29 ***
 831.47 ***
 0.02 ***
 -1.22 ***

 23.34 ***
 24.56 ***
 39.11 ***
 39.89 ***
 0.05 ***
 0.3910 ***

 16. ***

 1520.00
 85.00

8400071522.
 85.00
 1.20 ***
 1800150014. ***
 148.88 ***
 156.20 ***
 89.27 ***
 97.00 ***
 680.77 ***
 739.57 ***
 0.01 ***
 0.78 ***

 2.00 ***
 1800150014. ***
 142.43 ***
 147.80 ***
 240.34 ***
 244.20 ***
 831.94 ***
 733.93 ***
 0.01 ***
 0.80 ***

 25.38 ***
 24.56 ***
 -39.18 ***
 -39.11 ***
 0.35 ***
 -0.3911 ***

 16. ***

 1530.00
 85.00

12V19

LSU-S-8

GEODETIC LEVELING

LINE										TAPE NO.																													
PROJ. NO. 5021										PAGE OF																													
ST 0		ST 1				ST 2		ST 3																															
DATA		YR. MO. DY.				ZONE		INST. NO.				CODE																											
40																																							
ST 4					ST 5																																		
ROD NO. 1					CODE					ROD NO. 2					CODE																								
ST 6			ST 7			ST 8			ST 9					C																									
OBSERVER			TIME			LEVEL			CONST			C/F		UNTS		STAD		✓/F																					
												F M T K M		B																									
0 - WRITE ON TAPE - 9										BLOCK																													
ST 0		ST 1		DESIGNATION																																			
DATA		FROM:		12-V-6																																			
41		0012																																					
		ST 2		DESIGNATION																																			
		TO:		TBM-1																																			
		0016																																					
ST 3		ST 4		ST 5		ST 6		ST 7										BLOCK																					
TIME		TEMP		WIND		SUN		DATE										-																					
1020		87		22		22		040808																															
0 - WRITE ON TAPE - 7										f-CLEAR										ST SIGN 9																			
ELEV. DIFF.										RCL 7										KM. RCL										NO. RCL 0									
70.20980										0.23										04																			
ST 0		ST 1		ST 2 - ST 3		ST 4										BLOCK																							
DATA		TIME		TEMP		WIND		SUN		OBS.		REC.										-																	
341		1050		87		22		22		RH		RW																											
0 - WRITE ON TAPE - 4																																							
REMARKS										REMARKS																													

GEODETIC LEVELING

LINE										TAPE NO.														
PROJ. NO. 5021										PAGE					OF									
ST 0 DATA		ST 1 YR. MO. DY.			ST 2 ZONE		ST 3 INST. NO.			CODE														
40																								
ST 4 ROD NO. 1					CODE					ST 5 ROD NO. 2					CODE									
ST 6 OBSERVER			ST 7 TIME			ST 8 LEVEL CONST.			ST 9 C/F UNITS			STAD			C									
									F M T K M V B						F									
0 - WRITE ON TAPE - 9										BLOCK					-					R				
ST 0 DATA		ST 1 FROM:			DESIGNATION																			
41		0016			TBM-1																			
		ST 2 TO:			DESIGNATION																			
		0012			12-V-6																			
		ST 3 TIME		ST 4 TEMP		ST 5 WIND		ST 6 SUN		ST 7 DATE		BLOCK												
		1050		87		22		28		40808														
0 - WRITE ON TAPE - 7										f-CLEAR					ST ^{CH} _{SIGN} 9									
ELEV. DIFF.					RCL 7					KM. RCL					NO. RCL. 0									
-0.21030					0.24					04														
ST 0 DATA		ST 1 TIME			ST 2 - ST 3 TEMP		ST 4 WIND		ST 5 SUN		OBS.		REC.			BLOCK								
341		1105			87		22		2		RH		RW											
0 - WRITE ON TAPE - 4																								
REMARKS										REMARKS														

12 V 6

TBM-1

8400001020.
 87.00
 1.00 ***
 1000100015. ***
 179.61 ***
 202.40 ***
 152.75 ***
 174.90 ***
 744.26 ***
 771.12 ***
 0.00 ***
 1.28 ***

 2.00 ***
 1000100015. ***
 159.72 ***
 181.80 ***
 151.12 ***
 173.20 ***
 742.61 ***
 751.21 ***
 0.00 ***
 1.28 ***

 3.00 ***
 1000100016. ***
 153.49 ***
 161.10 ***
 154.14 ***
 162.10 ***
 745.64 ***
 744.99 ***
 0.00 ***
 0.58 ***

 4.00 ***
 1000100016. ***
 156.90 ***
 162.70 ***
 170.73 ***
 176.00 ***
 762.23 ***
 749.40 ***
 0.00 ***
 0.04 ***

 116.56 ***
 116.52 ***
 20.98 ***
 20.98 ***
 0.23 ***
 0.2098 ***

 16. ***

8400001050.
 87.00
 1.00 ***
 1000100012. ***
 170.27 ***
 176.90 ***
 158.44 ***
 162.70 ***
 747.94 ***
 751.77 ***
 0.00 ***
 0.74 ***

 2.00 ***
 1000100012. ***
 153.40 ***
 151.20 ***
 152.76 ***
 160.00 ***
 744.26 ***
 744.90 ***
 0.00 ***
 1.06 ***

 3.00 ***
 1000100012. ***
 150.75 ***
 172.20 ***
 159.40 ***
 191.00 ***
 750.90 ***
 742.25 ***
 0.00 ***
 -0.04 ***

 4.00 ***
 1000100012. ***
 149.18 ***
 171.00 ***
 176.03 ***
 199.40 ***
 757.53 ***
 740.60 ***
 0.00 ***
 -1.54 ***

 117.00 ***
 110.54 ***
 -21.03 ***
 -21.03 ***
 0.24 ***
 -0.2103 ***

 15. ***

TBM-1

1050.00
97.00

12-V 6

1005.00
97.00

TBM-1

8400081105.	5.00	***	1800160017.	5.00	***
87.00			140.52	***	
1.00	***		164.50	**	
1800160017.	***		194.10	**	
174.42	***		218.00	**	
195.20	***		785.59	***	
147.55	***		732.12	***	
165.10	***		-0.10	***	
735.05	***		1.65	***	
765.93	***				
-0.01	***		7.00	***	
-0.34	***		1800160017.	***	
			157.50	***	
2.00	***		165.40	***	
1800160017.	***		170.65	***	
145.67	***		179.90	***	
165.60	***		752.14	***	
135.30	***		749.30	***	
157.40	***		-0.11	***	
726.79	***		0.36	***	
735.18	***				
-0.03	***		8.00	***	
-0.68	***		1800160017.	***	
			140.73	***	
3.00	***		145.60	***	
1800160017.	***		173.65	***	
133.87	***		182.00	***	
156.30	***		765.15	***	
149.58	***		732.23	***	
172.00	***		-0.11	***	
741.07	***		1.40	***	
725.38	***				
-0.05	***		308.48	***	
-0.66	***		307.08	***	
			-47.90	***	
4.00	***		-47.79	***	
1800160017.	***		0.62	***	
136.51	***		-0.4785	***	
158.70	***				
140.28	***		16.	***	
152.10	***				
731.77	***		1145.00		
720.02	***		87.00		
-0.07	***				
0.00	***				
5.00	***				
1800160017.	***				
152.44	***				
177.40	***				
136.65	***				
145.00	***				
712.34	***				
743.35	***				
-0.09	***				
1.70	***				

LSU-5-2

GEODETIC LEVELING

LINE										TAPE NO.																													
PROJ. NO. 5021										PAGE OF																													
ST 0		ST 1			ST 2		ST 3																																
DATA		YR. MO. DY.			ZONE		INST. NO.			CODE																													
40																																							
ST 4					ST 5																																		
ROD NO. 1					CODE					ROD NO. 2					CODE																								
ST 6			ST 7			ST 8			ST 9			C																											
OBSERVER			TIME			LEVEL			CONST			C/F			UNTS			STAD			F																		
												F			M			T			K			M			✓			B									
0 - WRITE ON TAPE - 9										BLOCK										-										R									
ST 0		ST 1			DESIGNATION																																		
DATA		FROM:			LSU-S-2																																		
41		00/7																																					
		ST 2			DESIGNATION																																		
		TO:			TBM-1																																		
		00/6																																					
ST 3		ST 4			ST 5		ST 6		ST 7		BLOCK																												
TIME		TEMP			WIND		SUN		DATE		-																												
11/4/5		87			2		2		04/08/08																														
0 - WRITE ON TAPE - 7										f-CLEAR										ST SIGN 9																			
ELEV. DIFF.										RCL 7										KM. RCL										NO. RCL. 0									
70.47980										0.62										08																			
ST 0		ST 1			ST 2 - ST 3		ST 4			BLOCK																													
DATA		TIME			TEMP		WIND		SUN		OBS.		REC.		-																								
341		12/10			87		2		2		RH		RW																										
0 - WRITE ON TAPE - 4																																							
REMARKS																				REMARKS																			

LSU-S-2

8488881145.
87.00
1.00 ***
1800170016. ***
173.37 ***
162.00 ***
148.46 ***
149.50 ***
731.96 ***
754.88 ***
-0.01 ***
-1.02 ***

2.00 ***
1800170016. ***
170.88 ***
180.00 ***
158.05 ***
167.49 ***
749.55 ***
752.37 ***
0.00 ***
-1.48 ***

3.00 ***
1800170016. ***
195.93 ***
219.00 ***
142.46 ***
166.50 ***
733.96 ***
787.44 ***
-0.01 ***
-3.42 ***

4.00 ***
1800170016. ***
115.25 ***
140.00 ***
146.78 ***
171.20 ***
738.29 ***
706.75 ***
0.00 ***
-2.76 ***

5.00 ***
1800170016. ***
144.55 ***
166.20 ***
143.84 ***
155.70 ***
735.36 ***
735.05 ***
0.02 ***
-3.18 ***

6.00 ***
1800170016. ***
154.55 ***
177.00 ***
138.74 ***
161.20 ***
730.25 ***
746.05 ***
0.02 ***
-2.20 ***

7.00 ***
1800170016. ***
136.69 ***
156.60 ***
145.07 ***
167.30 ***
736.57 ***
728.19 ***
0.02 ***
-3.84 ***

8.00 ***
1800170016. ***
148.67 ***
170.20 ***
176.50 ***
197.70 ***
750.00 ***
740.17 ***
0.02 ***
-3.18 ***

306.22 ***
309.40 ***
47.99 ***
47.97 ***
0.62 ***
0.4798 ***
16. ***

1210.00
87.00

TBM-1

GEODETIC LEVELING

LINE										TAPE NO.														
PROJ. NO. 5021										PAGE					OF									
ST 0 DATA			ST 1 YR. MO. DY.			ST 2 ZONE			ST 3 INST. NO.			CODE												
40																								
ST 4 ROD NO. 1					CODE					ST 5 ROD NO. 2					CODE									
ST 6 OBSERVER			ST 7 TIME			ST 8 LEVEL			ST 9 CONST. C/F			UNITS			STAD			C						
									F			M T K M			B									
0 - WRITE ON TAPE - 9										BLOCK					-					R				
ST 0 DATA			ST 1 FROM:			DESIGNATION																		
41			0016			TBM-1																		
			ST 2 TO:			DESIGNATION																		
			0019			LSU-S-3																		
ST 3 TIME			ST 4 TEMP			ST 5 WIND			ST 6 SUN			ST 7 DATE			BLOCK									
1320			89			22			2840808			-												
0 - WRITE ON TAPE - 7										f-CLEAR					ST SIGN 9									
ELEV. DIFF.										RCL 7					KM. RCL					NO. RCL 0				
40										04560					0.39					06				
ST 0 DATA			ST 1 TIME			ST 2 - ST 3 TEMP WIND SUN			ST 4 OBS.			REC.			BLOCK									
41			1350			89 22			RH			RW			-									
0 - WRITE ON TAPE - 4																								
REMARKS										REMARKS														

TBM-1

8408081320.
89.00
1.00 ***
1800160019. ***
161.76 ***
194.20 ***
139.44 ***
162.50 ***
730.94 ***
753.25 ***
0.01 ***
-1.24 ***

2.00 ***
1800160019. ***
142.63 ***
165.30 ***
142.99 ***
165.70 ***
734.48 ***
734.12 ***
0.01 ***
-1.32 ***

3.00 ***
1800160019. ***
167.17 ***
190.60 ***
154.17 ***
177.50 ***
745.68 ***
758.67 ***
0.02 ***
-1.12 ***

4.00 ***
1800160019. ***
151.16 ***
162.70 ***
145.46 ***
157.00 ***
736.95 ***
742.64 ***
0.03 ***
-1.12 ***

5.00 ***
1800160019. ***
151.80 ***
162.80 ***
151.41 ***
162.90 ***
742.91 ***
743.29 ***
0.04 ***
-1.90 ***

6.00 ***
1800160019. ***
113.45 ***
118.90 ***
149.92 ***
154.10 ***
741.42 ***
704.95 ***
0.04 ***
0.64 ***

192.86 ***
192.42 ***
4.58 ***
4.54 ***
0.39 ***
0.0455 ***

16. ***

1350.00
89.00

LSU-5-3

GEODETIC LEVELING

LINE										TAPE NO.																						
PROJ. NO. 5021										PAGE					OF																	
ST 0			ST 1			ST 2			ST 3			CODE																				
DATA			YR. MO. DY.			ZONE			INST. NO.																							
40																																
ST 4					ST 5																											
ROD NO. 1					CODE					ROD NO. 2					CODE																	
ST 6			ST 7			ST 8			ST 9			C																				
OBSERVER			TIME			LEVEL			CONST. C/F			UNITS			STAD.			F														
												F			M			T			K			M			V			B		
0 - WRITE ON TAPE - 9										BLOCK					-					R												
ST 0			ST 1			DESIGNATION																										
DATA			FROM:			LSU-5-3																										
41			0019																													
			ST 2			DESIGNATION																										
			TO:			TBM-1																										
			0016																													
ST 3			ST 4			ST 5			ST 6			ST 7			BLOCK																	
TIME			TEMP			WIND			SUN			DATE			-																	
13:50			89			22			28			40808																				
0 - WRITE ON TAPE - 7										f-CLEAR					ST SIGN 9																	
ELEV. OFF.										RCL 7					KM. RCL					NO. RCL. 0												
-0.04500										0.39					06																	
ST 0			ST 1			ST 2 - ST 3			ST 4			BLOCK																				
DATA			TIME			TEMP			WIND			SUN			OBS.			REC.			-											
341			1420			89			22			2			RH			RW														
0 - WRITE ON TAPE - 4																																
REMARKS										REMARKS																						

LSU-S-3

8400001350.	5.00	***	1800190016.	5.00	***
55.00			142.50	***	
1.00	***		165.70	***	
1800190016.	***		142.10	***	
149.38	***		165.30	***	
154.10	***		733.60	**	
112.91	***		734.00	***	
117.90	***		0.00	***	
704.41	***		-2.52	***	
740.88	***				
0.00	***		5.00	***	
-0.54	***		1800190016.	***	
			130.26	***	
2.00	***		161.60	***	
1800190016.	***		160.62	***	
150.75	***		183.30	***	
161.00	***		752.12	***	
151.14	***		729.76	***	
162.80	***		0.00	***	
742.64	***		-1.20	***	
742.25	***				
0.00	***		192.64	***	
-1.76	***		193.84	***	
			-4.50	***	
3.00	***		-4.50	***	
1800190016.	***		0.35	***	
145.48	***		-0.0450	***	
156.90	***				
151.18	***		16.	***	
162.70	***				
742.68	***		1420.00		
736.98	***		89.00		
0.00	***				
-1.96	***				
4.00	***				
1800190016.	***				
153.01	***				
176.40	***				
165.73	***				
189.60	***				
758.23	***				
745.31	***				
0.00	***				
-2.52	***				

TBM-1
~~LSU-S-3~~

GEODETIC LEVELING

LINE		TAPE NO.					
PROJ. NO. 5021		PAGE			OF		
ST 0	ST 1	ST 2	ST 3				
DATA	YR. MO. DY.	ZONE	INST. NO.	CODE			
40							
ST 4			ST 5				
ROD NO. 1		CODE	ROD NO. 2		CODE		
ST 6	ST 7	ST 8	ST 9			C	
OBSERVER	TIME	LEVEL CONST	C/F	UNITS	STAD	F	
				F M T K M		B	
O - WRITE ON TAPE - 9			BLOCK			R	
ST 0	ST 1	DESIGNATION					
DATA	FROM:	LSU-S-4					
41	0020						
	ST 2	DESIGNATION					
	TO:	12-V-7					
	0021						
ST 3	ST 4	ST 5	ST 6	ST 7	BLOCK		
TIME	TEMP	WIND	SUN	DATE			
1430	89	22	28	40808			
O - WRITE ON TAPE - 7			f-CLEAR	ST SIGN			
ELEV. OFF.		RCL 7	KM. RCL	NO. RCL	0		
40.28750		0.33	06				
ST 0	ST 1	ST 2 - ST 3	ST 4			BLOCK	
DATA	TIME	TEMP	WIND	SUN	OBS.	REC.	
41	1455	89	22	2	RH	RW	
O - WRITE ON TAPE - 4							
REMARKS			REMARKS				

LSU-S-4

8409881430.
89.60
1.60 ***
1800200021. ***
199.42 ***
206.40 ***
135.30 ***
142.30 ***
726.80 ***
790.92 ***
0.00 ***
-0.84 ***

2.00 ***
1800200021. ***
129.24 ***
152.19 ***
152.74 ***
175.20 ***
744.24 ***
720.74 ***
0.00 ***
0.76 ***

3.00 ***
1800200021. ***
149.59 ***
172.00 ***
149.40 ***
172.30 ***
740.90 ***
741.09 ***
0.00 ***
-0.22 ***

4.00 ***
1800200021. ***
153.85 ***
175.00 ***
152.99 ***
175.20 ***
744.49 ***
745.35 ***
0.00 ***
-0.74 ***

5.00 **
1800200021. **
139.51 **
143.60 **
149.55 **
153.70 **
741.05 **
731.01 ***
0.00 ***
-0.85 ***

5.00 ***
1800200021. ***
149.15 ***
153.00 ***
152.03 ***
156.80 ***
743.53 ***
740.65 ***
0.00 ***
-1.10 ***

~~153.85~~
~~156.90~~
20.75 ***
20.75 ***
0.35 ***
0.2075 ***

15. ***

1455.00
89.00

12V7

GEODETIC LEVELING

LINE										TAPE NO.														
PROJ. NO. 5021										PAGE					OF									
ST 0		ST 1			ST 2			ST 3																
DATA		YR. MO. DY.			ZONE			INST. NO.			CODE													
40																								
ST 4					ST 5																			
ROD NO. 1					CODE					ROD NO. 2					CODE									
ST 6			ST 7			ST 8			ST 9			C												
OBSERVER			TIME			LEVEL			CONST. C/F			UNITS			STAD.			F						
									F			M T K M			✓ B									
O - WRITE ON TAPE - 9										BLOCK					-					R				
ST 0		ST 1			DESIGNATION																			
DATA		FROM:			12-V-7																			
41		0021																						
		ST 2			DESIGNATION																			
		TO:			LSU-S-4																			
		0020																						
ST 3		ST 4			ST 5		ST 6		ST 7		BLOCK													
TIME		TEMP			WIND		SUN		DATE		-													
1455		89			22		28		40808															
O - WRITE ON TAPE - 7										f-CLEAR					ST SIGN 9									
ELEV. DIFF.										RCL 7					KM. RCL					NO. RCL. 0				
-0.28835										0.34					06									
ST 0		ST 1			ST 2 - ST 3			ST 4			BLOCK													
DATA		TIME			TEMP			WIND SUN			OBS.			REC.			-							
41		1525			89			22			RH			RW										
O - WRITE ON TAPE - 4																								
REMARKS										REMARKS														

12V7

0400001455.
89.00
1.00 ***
16000210020. ***
151.17 ***
155.80 ***
148.29 ***
152.60 ***
739.79 ***
742.67 ***
0.00 ***
0.24 ***

2.00 ***
18000210020. ***
149.14 ***
157.90 ***
139.11 ***
147.60 ***
730.62 ***
740.54 ***
0.01 ***
0.58 ***

3.00 ***
18000210020. ***
152.63 ***
175.30 ***
153.52 ***
175.90 ***
745.02 ***
744.13 ***
0.01 ***
1.16 ***

4.00 ***
18000210020. ***
146.37 ***
171.30 ***
148.57 ***
171.00 ***
746.07 ***
739.87 ***
0.01 ***
2.16 ***

5.00 ***
18000210020. ***
152.16 ***
175.30 ***
128.70 ***
151.10 ***
720.20 ***
743.66 ***
0.01 ***
3.54 ***

6.00 ***
18000210020. ***
134.53 ***
141.30 ***
199.64 ***
205.40 ***
750.14 ***
725.03 ***
0.01 ***
3.66 ***

169.60 ***
165.94 ***
-28.83 ***
-28.84 ***
0.34 ***
-0.2884 ***

16. ***

1525.00
89.00

LSU-S-A

GEODETIC LEVELING

LINE										TAPE NO.														
PROJ. NO. 5021										PAGE					OF									
ST 0			ST 1			ST 2			ST 3			CODE												
DATA			YR. MO. DY.			ZONE			INST. NO.															
40																								
ST 4					ST 5																			
ROD NO. 1					CODE					ROD NO. 2					CODE									
ST 6			ST 7			ST 8			ST 9			C												
OBSERVER			TIME			LEVEL			CONST. C/F			UNITS			STAD.			✓ F						
												F M T K M			B									
0 - WRITE ON TAPE - 9										BLOCK					-					R				
ST 0			ST 1			DESIGNATION																		
DATA			FROM:			LSU-5-5																		
41			0022																					
			ST 2			DESIGNATION																		
			TO:			LSU-5-6																		
			0023																					
ST 3			ST 4			ST 5			ST 6			ST 7			BLOCK									
TIME			TEMP			WIND			SUN			DATE			-									
1540			89			22			22			840808												
0 - WRITE ON TAPE - 7										f - CLEAR					ST SIGN 9									
ELEV. OFF.										RCL 7					KM. RCL					NO. RCL. 0				
-0.37940										0.80					12									
ST 0			ST 1			ST 2 - ST 3			ST 4			BLOCK												
DATA			TIME			TEMP			WIND			SUN			OBS.			REC.			-			
41			1615			89			22			22			RH			RW						
0 - WRITE ON TAPE - 4																								
REMARKS										REMARKS														

LSU-S-5

8406881540.
 89.00
 1.00 ***
 1800220023. ***
 180.91 ***
 190.30 ***
 149.93 ***
 159.50 ***
 741.43 ***
 772.41 ***
 0.00 ***
 -0.36 ***

 2.00 ***
 1800220023. ***
 141.70 ***
 163.80 ***
 155.12 ***
 187.90 ***
 756.62 ***
 733.19 ***
 0.01 ***
 -1.72 ***

 3.00 ***
 1800220023. ***
 146.30 ***
 168.30 ***
 144.97 ***
 166.50 ***
 736.45 ***
 737.79 ***
 0.00 ***
 -0.78 ***

 4.00 ***
 1800220023. ***
 137.55 ***
 160.00 ***
 142.21 ***
 166.00 ***
 733.73 ***
 729.06 ***
 0.01 ***
 -1.86 ***

 5.00 ***
 1800220023. ***
 141.70 ***
 165.00 ***
 149.57 ***
 173.00 ***
 741.00 ***
 733.20 ***
 0.02 ***
 -2.12 ***

6.00 ***
 1800220023. ***
 134.49 ***
 150.10 ***
 139.09 ***
 162.50 ***
 730.58 ***
 725.98 ***
 0.02 ***
 -1.72 ***

 7.00 ***
 1800220023. ***
 116.50 ***
 132.70 ***
 149.74 ***
 165.70 ***
 741.24 ***
 700.00 ***
 0.02 ***
 -1.24 ***

 8.00 ***
 1800220023. ***
 151.67 ***
 165.90 ***
 117.46 ***
 133.30 ***
 700.96 ***
 743.17 ***
 0.02 ***
 -2.46 ***

 9.00 ***
 1800220023. ***
 164.01 ***
 179.70 ***
 176.37 ***
 152.60 ***
 757.87 ***
 755.50 ***
 0.03 ***
 -3.54 ***

 10.00 ***
 1800220023. ***
 150.62 ***
 170.20 ***
 163.62 ***
 175.50 ***
 745.13 ***
 747.32 ***
 0.04 ***
 -2.54 ***

11.00 *
 1800220023. *
 144.09 *
 147.50 *
 144.11 *
 147.13 *
 735.61 ***
 735.61 ***
 0.02 ***
 -2.30 ***

 12.00 ***
 1800220023. ***
 144.41 ***
 147.50 ***
 165.20 ***
 161.20 ***
 736.70 ***
 735.92 ***
 0.03 ***
 -2.14 ***

 13.00 ***
 1800220023. ***
 139.60 ***
 140.11 ***
 157.11 ***
 157.15 ***
 0.10 ***
 -1.77 ***

 14.00 ***
 1800220023. ***
 145.00 ***
 149.81 ***

LSU-S-6

GEODETIC LEVELING

LINE										TAPE NO.																						
PROJ. NO. 5021										PAGE					OF																	
ST 0		ST 1			ST 2		ST 3			CODE																						
DATA		YR. MO. DY.			ZONE		INST. NO.																									
40																																
ST 4					ST 5																											
ROD NO. 1					CODE					ROD NO. 2					CODE																	
ST 6			ST 7			ST 8			ST 9			C																				
OBSERVER			TIME			LEVEL			CONST			C/F			UNITS			STAD			F											
												F			M			T			K			M			V			B		
0 - WRITE ON TAPE - 9										BLOCK					-					R												
ST 0		ST 1			DESIGNATION																											
DATA		FROM:			LSU-S-6																											
41		0023																														
		ST 2			DESIGNATION																											
		TO:			LSU-S-5																											
		0022																														
ST 3		ST 4		ST 5		ST 6		ST 7		BLOCK																						
TIME		TEMP		WIND		SUN		DATE																								
16.15		89		22		28		40808																								
0 - WRITE ON TAPE - 7										f-CLEAR					ST SIGN					0												
ELEV. DIFF.										RCL 7					KM. RCL					NO. RCL 0												
+0.37980										0.90					12																	
ST 0		ST 1			ST 2 - ST 3		ST 4			BLOCK																						
DATA		TIME			TEMP		WIND		SUN		OBS.			REC.			-															
41		1700			89		22		2		RH			RW																		
0 - WRITE ON TAPE - 4																																
REMARKS										REMARKS																						

LSU-5-6

1-01111.1.5.
 38.25
 1000230022.
 18-1.52
 137.11
 147.75
 149.30
 730.25
 733.02
 1.00
 -1.11
 1.11
 1000230022.
 140.11
 1-0.12
 1-0.12
 1-0.11
 733.02
 730.17
 1.00
 -1.17
 0.00
 1000230022.
 151.17
 171.31
 140.32
 151.17
 733.11
 730.11
 1-0.16
 1.11
 0.11
 4.00
 1000230022.
 145.59
 161.20
 119.34
 135.20
 719.94
 737.05
 0.02
 -0.32
 5.00
 1000230022.
 92.75
 160.30
 153.91
 160.70
 744.51
 684.23
 0.02
 -0.56

5.00
 1000230022.
 147.26
 163.90
 113.78
 129.60
 705.29
 736.76
 0.03
 0.48
 7.00
 1000230022.
 138.67
 161.70
 131.57
 155.00
 723.08
 730.17
 0.04
 -0.32
 8.00
 1000230022.
 140.47
 171.90
 151.38
 174.50
 742.85
 739.96
 0.04
 -0.54
 9.00
 1000230022.
 150.80
 174.40
 135.75
 150.40
 727.35
 742.30
 0.04
 1.36
 10.00
 1000230022.
 141.91
 163.50
 149.51
 171.49
 741.01
 703.40
 0.05
 0.76

11.00
 1000230022.
 169.11
 192.00
 148.38
 170.80
 733.81
 760.61
 0.06
 1.54
 12.00
 1000230022.
 157.89
 167.50
 181.91
 191.20
 773.41
 749.39
 0.05
 2.10
 400.34
 390.16
 38.01
 57.25
 0.38
 0.3798
 16.
 1700.00
 89.00

LSU-5-5