

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
5/22/80		G. Cotcamp		G. Litzinger		6834		GHL		1	1					
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER						
New York		Putnam Mountain		New York	Warren					Davis						
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		instrument. Wild T1A chaining. 330' steel cable + arrows
												LAT.	DEP.	Y	X	
TL TF				-13°42'						379.6				1,230,736	687,223	→ scaled
	920		273°16' -180°	-13.7°	+11.7	89°0'	-16.1	-4.4	375.2		BS	+167	+905			4-way Intersect. el. 379.6
	920				+9.0	89°10'	-134	-4.4			BS					
1	660		272°35'	-13.7°	5.9	89°0'	+11.5	+5.6		380.8		-127	-678	1,230,776	687,480	paved road
2	330		" "	"	3.1	89°0'	+5.8	+2.7		377.9		-64	-324	1,230,839	687,804	↓
3	0				5.4	-		-5.4		369.8	π	0	0	1,230,903	688,128	
4	330		93°48.7'	-13.7°	6.4	-		-6.4		368.8		+57	+325	1,230,960	688,153	
5	660		" "	"	11.2	-		-11.2		364.0		+113	+650	1,231,016	688,778	
6	990		" "	"	<del>10.6</del> 13.0	90°-		-13.0		362.2		+170	+975	1,231,073	689,103	
7	1320		93°48.7'	-13.7°	10.6	90°30'	-11.5	-22.1	353.1		TP	+227	+1300	1,231,130	689,428	
7	1320				9.1	90°34'	-13.1	-22.2			TP					
	660		274°20' -180°	-13.7°	+1.8	87°50'	-24.9	-23.1	330.0		BS	+107	+651			
	660				+5.6	87°30'	-28.8	-23.2			BS					
8	330		274°20'	-13.7°	4.5	88°0'	+11.5	+7.0		337.0		-54	-326	1,231,183	689,753	
9	0				5.4	-		-5.4		324.6	π	0	0	1,231,237	690,079	
10	330		98°28'	-13.7°	14.9	8H	-1.7	-16.6		313.4		+30	+329	1,231,267	690,108	
11	660		98°28'	-13.7°	13.1	91°30'	-17.3	-30.4	299.6		TP	+60	+657	1,231,297	690,736	
11	660				11.2	91°40'	-19.2	-30.4			TP					
	660		266°34' -180°	-13.7°	+15.6	91°-	+11.5	+25.1	324.7		BS	+194	+631			
	660				+7.9	91°30'	+17.3	+25.2			BS					
□	483		265°34'	-13.7°	14.9	92°0'	-16.8	-31.7		293.0		-150	-459	1,231,311	690,908	(on bridge) chiseled square

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5/22/80		G. Litzinger		G. Litzinger		6839		GHL		1		2			
AREA		TOPO MAP		STATE		COUNTY		RANGE		PPM		PARTY MANAGER			
New York		Putnam Mountain		New York		Warren/Washington						Davis			
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									324.7						
12	330		266°34'	-13.7°	13.8	92°-	-11.5	-25.3		299.4		-97	-31.5	1,231,394	691,052
<u>12</u>	102		266°5'	-13.7°	8.9	-	-	-8.9		315.8		-31	-97	1,231,460	691,270
13	0				5.4	-	-	-5.4		319.3	X	0	0	1,231,491	691,367
14	330		96°51'	-13.7°	6.3	-	-	-6.3		318.4		+39	+328	1,231,530	691,695
<del>15</del>	<del>660</del>				<del>4.7</del>	-	-	-							
15	660		96°51'	-13.7°	11.8	BH	-3.3	-15.1		309.6	TP	+79	+655.3	1,231,570	692,019
15	660				11.2	90°20'	-3.8	-15.0			TP				
	660		276°16'-180°	-13.7°	+3.9	88°-	-23.0	-19.1	290.5		BS	+85	+654		
	660				+0.9	88°16'	-20.0	-19.1			BS				
16	330		276°16'	-13.7°	4.4	88°-	+11.5	+7.1		297.6		-43	-327	1,231,612	692,343
17	0				5.4	-	-	-5.4		285.1	X	0	0	1,231,655	692,670
A	237		105°40'	-13.7°	2.7	-	-	-2.7		287.8		-8	+237	1,231,647	692,907
18	330		103°54'	-13.7°	0.6	-	-	-0.6		289.9		-1	+330	1,231,654	693,000
19	660		103°54'	-13.7°	2.7	88°30'	+17.3	+14.6		305.1	TP	-2	+660	1,231,653	693,327
19	660				4.6	88°20'	+19.2	+14.6			TP				
	255		303°40'-180°	-13.7°	+14.7	BH	+1.3	+16.0			BS	-87	+240		
	255				+11.5	91°-	+4.4	+15.9	321.0		BS				
X	0				5.4	-	-	-5.4		315.6	X	0	0	1,231,566	693,564
20	75		145°31'	-13.7°	2.3	-	-	-2.3		318.7		-50	+56	1,231,516	693,620

↑  
Warren Co.  
(on bridge)  
chiseled A el. 287.  
↓  
Washington Co.

split sta. - curve

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
5/22/80		C. Cotcamp		G. Litzinger		6834		GHL <i>rlw</i>		1	3				
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER					
New York		Putnam Mountain		New York	Washington					Davis					
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									321.0						
21	396	395	164°14'	-13.7°	2.8	86°-	+27.6	+24.8			TP	-344	+194-3	1,231,222	693,755
21	396				1.0	86°16'	+25.7	+24.7		345.7	TP				
	330	329	101°+180°	-13.7°	+14.1	94°30'	+25.8	+39.9	385.6		BS	-321	+72-3		
	330				+13.2	94°40'	+26.8	+40.0			BS				
22	0				54	-		-5.4		380.2	TP	0	0	1,230,901	693,924
	130		149°54'	-13.7°	2.4	86°-	+9.0	+6.6		392.2		-94	+90	1,230,807	693,914
															1,230,820+693,910 T rd (north)
23	270	269	130°39'	-13.7°	9.6	85°30'	+21.1	+11.5		397.1	TP	-122	+240-3	1,230,779	694,061
23	270				8.7	85°42'	+20.2	+11.5			TP				sharp curve
	1320	1319	270°55.2'-180°	-13.7°	+5.5	88°12'	-41.4	-35.9	361.2		BS	+292	+1286-3		
	1320				+4.8	88°14'	-40.7	-35.9			BS				
24	990		270°55.2'	-13.7°	2.0	89°-	+17.3	+15.3		376.5		-219	-965	1,230,852	694,379
25	660		" "	"	7.8	89°-	+11.5	+3.7		364.9		-146	-644	1,230,925	694,700
26	330		" "	"	1.6	-		-1.6		359.6		-73	-322	1,230,998	695,022
27	0				54	-		-5.4		355.8	TP	0	0	1,231,071	695,344
BM	305		89°42'	-13.7°	11.4	92°-	-10.6	-22.0		339.2		+74	+296	1,231,145	695,640
															el. 339. USGS 46 WDIT 1969
28	330		92°43.8'	-13.7°	10.1	92°-	-11.5	-21.6		339.6		+63	+324	1,231,134	695,668
29	660		" "	"	12.3	-		-12.3		348.9		+126	+648	1,231,197	695,992
30	990		" "	"	12.2	-		-12.2		349.0		+188	+972	1,231,259	696,316
31	1320		92°43.8'	-13.7°	3.1	-		-3.1		358.1	TP	+251	+1296-3	1,231,322	696,637
31	1320				9.7	TH	+6.6	-3.1			TP				

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY			LINE NO.	PAGE		
5/22/80		G. Cotcamp		G. Litzinger		6834		G.H.L. <i>sub</i>			1	4		
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
New York		Putnam Mountain/Hudson Falls		New York	Washington					L.O. Davis				
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
31	660		276° 23' - 180°	-13.7°	+10.6	-		+10.6	368.7	358.1	BS	+84	+655-3	
	660				+13.9	TH	-3.3	+10.6			BS			
32	330		276° 23'	-13.7°	9.7	-		-9.7		359.0		-42	-327	1,231,364 696,962
33	0				5.4	-		-5.4		363.3	X	0	0	1,231,406 697,289 set-up opposite sta.
34	330		126° 58.7'	-13.7°	2.1	-		-2.1		366.6		-130	+303	1,231,276 697,592
35	660		" "	"	3.1	-		-3.1		365.6		-261	+606	1,231,145 697,895
36	990		126° 58.7'	-13.7°	5.7	-		-5.7		363.0	TP	-391	+909-3	1,231,015 698,195
36	990				10.6	TH	+5.0	-5.6			TP			
	660		302° 18.9' - 180°	-13.5°	+14.3	-		+14.3	377.3		BS	-213	+625-3	
	660				+11.0	BH	+3.3	+14.3			BS			
37	330		302° 18.4'	-13.5°	14.2	-		-14.2		363.1		+106	-312	1,230,908 698,505 ↑
38	0				5.4	-		-5.4		371.9	X	0	0	1,230,802 698,817 Putnam Mountain Quad.
39	330		124° -	-13.5°	14.3	BH	-1.7	-16.0		361.3		-116	+309	1,230,686 699,124 Hudson Falls Quad.
40	660		" "	"	11.2	91° -	-11.5	-22.7		354.6		-231	+618	1,230,571 699,435 ↓
41	988		121° 32'	-13.5°	2.5	91° -	-17.2	-19.7		357.6	TP	-306	+939-3	1,230,496 699,753 curve
41	988				14.0	90° 20'	-5.7	-19.7			TP			
	330		279° 46.2' - 180°	-13.5°	+5.4	89° -	-5.8	-0.4	357.2		BS	+21	+329-3	
	330				+2.5	89° 30'	-2.9	-0.4			BS			
42	0				5.4	-		-5.4		351.8	X	0	0	1,230,517 700,079
TP	40		75° 17'	-13.5°	7.3	-		-7.3		349.9		+19	+35	1,230,536 700,114 T-d (cont'd)

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY			LINE NO.	PAGE					
5/22/80		G. Ostcamp		G. Litzinger		6834		GML			1	5					
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
New York		Hudson Falls		New York	Washington					Davis							
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH +	EAST +	COORDINATES		REMARKS	
												SOUTH -	WEST -	Y	X		
									357.2								
43	330	329	88° 18.5'	-13.5°	11.6	94°	-23.0	-34.6		322.6	TP	+86+2	+318-3	1230,605	700,394		
43	330				14.5	93°30'	-20.1	-34.6			TP						
	652		285° 27.8' -180°	-13.5°	+9.3	88°	-22.7	-13.4	309.2		BS	-22+2	+652-3			curve	
	652				+11.2	87°50'	-24.6	-13.4			BS						
44	330		290° 33'	-13.5°	2.7	-		-2.7		306.5		+41	-328	1230,626	700,715		
45	0				5.4	-		-5.4		303.8	X	0	0	1230,585	701,043		
46	330		105° 23'	-13.5°	1.0	TH	+1.7	+0.7		309.9		-11	+330	1230,574	701,373		
47	660		" "	"	1.7	TH	+3.3	+1.6		310.8		-22	+660	1230,563	701,703		
48	990		105° 23'	-13.5°	3.5	TH	+5.0	+1.5		310.7	TP	-33+2	+989-3	1230,554	702,029		
48	990				4.3	89°40'	+5.8	+1.5			TP						
	990		285° 7' -180°	-13.5°	+12.3	BH	+5.0	+17.3			BS	-28+2	+990-3				
	990				+8.6	90°30'	+8.6	+17.2	327.9		BS						
49	660		285° 7'	-13.5°	14.5	BH	-3.3	-17.8		310.1		+19	-660	1230,547	702,356		
50	330		" "	"	8.0	-		-8.0		319.9		+9	-330	1230,537	702,680		
51	0				5.4	-		-5.4		322.5	X	0	0	1230,528	703,016	set-up opposite Sta	
52	330		126° 10'	-13.5°	13.2	-		-13.2		314.7		-127	+305	1230,401	703,381		
53	662		128° 56.3'	-13.5°	12.6	90°40'	-7.7	-20.3		307.6	TP	-284+2	+598-3	1230,246	703,611	T.P. opposite Sta.	
53	662				8.6	91°	-11.6	-20.2			TP						
	986		317° 11.4' -180°	-13.5°	+14.4	-		+14.4	322.0		BS	-547+1	+820-1				
	986				+9.5	BH	+4.9	+14.4			BS						

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5/22/80		G. Catcamp		G. Litzinger		6834		GHL		1	6				
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
New York		Hudson Falls		New York		Washington					Davis				
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									322.0						
54	660		314°30'	-13.5°	9.3	91°-	-11.5	-20.8		301.2		+340	-566	1,230,040	703,864
□	550		316°44'	-13.5°	12.2	91°-	-9.6	-21.8		300.2		+301	-460	1,230,001	703,970 chiseled square c.l. 300.1
55	330		319°30'	-13.5°	12.9	-	-	-12.9		309.1		+170	-283	1,229,870	704,147
56	0				5.4	-	-	-5.4		316.6	X	0	0	1,229,700	704,430
57	330		91°18'	-13.5°	8.7	-	-	-8.7		313.3		+70	+323	1,229,770	704,753
58	660		86°21.5'	-13.5°	5.0	90°20'	-3.8	-8.8		313.2	TP	+195	+631	1,229,895	705,061
58	660				5.5	BH	-3.3	-8.8			TP				
	660		249°28'-180°	-13.5°	+9.6	-	-	+9.6	322.8		BS	+369	+547		
	660				+12.9	TH	-3.3	+9.6			BS				
59	330		249°28'	-13.5°	3.6	-	-	-3.6		319.2		-185	-273	1,230,079	705,335
60	0				5.4	-	-	-5.4		317.4	X	0	0	1,230,264	705,608
61	330		66°26.3'	-13.5°	6.8	-	-	-6.8		316.0		+199	+263	1,230,463	705,871
TP	495		66°26.3'	-13.5°	8.0	-	-	-8.0		314.8	TP	+298	+395	1,230,562	706,003 split sta. - curve
TP	495				5.5	BH	-2.5	-8.0			TP				
	165		270°19'-180°	-13.5°	+3.6	-	-	+3.5	318.3		BS	+38	+161		horiz. correct. y=+11' x=-58'
	165				+4.3	TH	-0.8	+3.5			BS				
±	104		280°46'	-13.5°	3.1	-	-	-3.1		315.2		-5	-104	1,230,595	706,060 1,230,595 + 706,060 T-intersect. (north)
62	0				5.4	-	-	-5.4		312.9	X	0	0	1,230,600	706,164
63	330		111°32'	-13.5°	9.9	-	-	-9.9		308.4		-46	+327	1,230,554	706,491



DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE		
6/2/80		G LITZINGER		DAVID MARKS		6834		bal rlu		/		8		
AREA		TOPO MAP		STATE		COUNTY		RANGE		PPM		PARTY MANAGER		
NEW YORK		HUDSON FALLS		NEW YORK		WASHINGTON						DAVIS		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									280.8					
□	777		287° 5'	-13.5°	7.4	95° 20'	-31.6	-39.0		241.8		+49	-775	1,229,835 709,424 ec 242 chiseled sq. bridge
73	660		276° 18.1'	-13.5°	14.3	92° -	-23.0	-37.3		243.5		-83	-655	1,229,703 709,594
74	330		" "	" "	11.2	92° -	-11.5	-22.7		258.1		-41	-327	1,229,745 709,872
75	0				5.4	-	-	-5.4		275.4	TP	0	0	1,229,786 710,199
Y	213		126° 57.7'	-13.5°	5.7	87° -	+11.1	+5.4				-85	+195	1,229,701 710,394 1,229,705 + 710,380 Y-intersect.
Y	213				5.0	87° 10'	+10.5	+5.5		286.3				
76	300		142° 59.9'	-13.5°	10.2	87° -	+15.7	+5.5		286.3	TP	-191+3	+231-2	1,229,599 710,428
76	300				9.4	87° 10'	+14.8	+5.4			TP			
	658		359° 9.8' -180°	-13.5°	+7.4	89° -	-11.5	-4.1			BS	-621+3	+218-2	
	658				+5.5	89° 10'	-9.6	-4.1	282.2		BS			
77	330		352° 14'	-13.5°	1.2	-	-	-1.2		281.0		+308	-120	1,229,298 710,524
79	0				5.4	-	-	-5.4		276.8	TP	0	0	1,229,980 710,644
79	330		154° 45.6'	-13.5°	8.4	-	-	-8.4		273.8		-257	+207	1,228,723 710,851
80	660		" "	" "	11.6	-	-	-11.6		270.6		-515	+413	1,228,465 711,057
81	995		152° 38.2'	-13.5°	12.9	-	-	-12.9		269.3	TP	-745+2	+644-2	1,228,237 711,286
81	995				8.0	BH	-4.9	-12.9			TP			
	657		349° 18.6' -180°	-13.5°	+7.0	-	-	+7.0			BS	-599+2	+269-2	
	657				+10.3	TH	-3.3	+7.0	276.3		BS			
82	330		353° 53.2'	-13.5°	3.2	-	-	-3.2		273.1		+311	-111	1,227,951 711,442
□	44		350° 49.6'	-13.5°	5.5	-	-	-5.5		270.8		+41	-17	1,227,681 711,536 ec 271 chiseled sq. bridge

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6/2/80		G. LITZINGER		D. MARKS		6834		BML		1		9			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
NEW YORK		Hudson Falls		New York		Washington								DAVIS	
STATION NO.	SLOPE DISTANCE	PLOTting DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									276.3						
83	0				5.4	-		-5.4		270.9	TP	0	0	1,227,640	711,553
84	330		180° 31.2'	-13.5°	6.8	-		-0.8		275.5		-322	+74	1,227,318	711,627
85	660		180° 31.2'	-13.5°	11.5	88° 20'	+19.2	+7.7		284.0	TP	-643+2	+148°-2	1,226,999	711,699
85	660				9.6	88° 30'	+17.3	+7.7			TP				
	264		339° 21.2'	-180°	+12.3	93° -	+13.8	+26.1			BS	-218+2	+148-2		
	264				+11.5	93° 10'	+14.6	+26.1	310.1		BS				
	0				5.4	-		-5.4		304.7	TP	0	0	1,226,783	711,845
86	63		122.14.2	-13.5°	3.9	-		-3.9		306.2		-20	+60	1,226,763	711,905
					13.7	91° -									
87	380		104° 42.9	-13.5°	11.9	71° -	-6.6	-18.5		291.6	TP	-8+1	+380-2	1,226,776	712,223
87	380				10.8	71° 10'	7.7	-18.5			TP				
	660		274° 21.4'	-180°	+9.2	71° 10'	+13.4	+22.6			BS	-105	+652-2		
	660				+7.4	91° 20'	+15.4	+22.8	314.3		BS				
88	330		274° 21.4'	-13.5°	14.1	70° 30'	-2.9	-17.0		297.3		-52	-326	1,226,829	712,547
89	0				5.4	-		-5.4		308.9	TP	0	0	1,226,881	712,873
90	330		102° 41.3'	-13.5°	9.5	-		-9.5		304.8		+5	+330	1,226,886	713,203
91	480		102° 41.3'	-13.5°	10.9	-		-10.9		303.4	TP	+7+	+180	1,226,888	713,353
91	490				8.5	184	-2.4	-10.9			TP				F-intersect (Route #4)
	502		241° 3.4'	-180°	+1.2	89° 50'	-1.5	-0.3			BS	+339+	+370		
	502				+2.7	89° 40'	-2.9	-0.2	303.2		BS				

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
6/2/80		G. LITZINGER		DAVID		6834		GWC. <i>relw</i>		1	10					
AREA		TOPO MAP		STATE		COUNTY		RANGE	PPM	PARTY MANAGER						
NEW YORK		Hudson Falls		NEW YORK		WASHINGTON				DAVIS						
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
									303.2							
91	330		241° 34'	-13.5°	1.0	-		-1.0		302.2		-223	-244	1,027,004	713,479	horiz. correct. y=+33' x=-28'
92	0				5.4	-		-5.4		297.8	T	0	0	1,227,227	713,723	
91	152		55° 30'	-13.5°	7.3	-		-7.3		295.9		+113	+102	1,227,340	713,825	1,227,340 = 713,825 7th M. E.L. 295.
93	330		65° 56.4'	-13.7°	9.9	-		-9.9		293.3		+202	+261	1,227,429	713,984	
94	660		"	"	10.2	-		-10.2		293.0		+404	+522	1,227,631	714,245	
95	990		65° 56.4'	-13.7°	8.1	-		-8.1		295.1	TP	+606+4	+783+3	1,227,837	714,509	
95	990				3.1	BH	-5.0	-8.1			TP					
	990		247° 33.5'-180°	-13.7°	+8.9	89°-	-17.3	-8.4	286.7		BS	+584+4	+799+3			
	990				+6.1	89°10'	-14.4	-8.3			BS					
96	660		246° 10'	-13.7°	3.9	89°-	+11.5	+7.6		294.3		-402	-523	1,228,023	714,788	
97	330		"	"	2.9	89°-	+5.8	+2.9		289.6		-201	-262	1,228,224	715,049	
98	0				5.4	-		-5.4		281.3	T	0	0	1,228,425	715,311	
99	330		65° 42.8'	-13.7°	11.5	-		-11.5		275.2		+203	+260	1,228,628	715,571	
100	660		"	"	13.1	BH	-3.3	-16.4		270.3		+406	+520	1,228,831	715,831	
101	990		"	"	14.5	BH	-5.0	-19.5		267.2		+609	+780	1,229,034	716,091	
102	1320		65° 42.8'	-13.7°	10.7	90°30'	-11.5	-22.2		264.5	TP	+812+4	+1090+3	1,229,241	716,354	
102	1320				14.5	90°20'	-7.7	-22.2			TP					
	990		224° 23.3'		+11.4	89°-	-17.3	-5.9			BS					
	990		237° 47'-180°		+8.5	89°10'	-14.4	-5.9	258.6		BS					
103	660		221° 59'-234° 27'		-6.7	89°-	+11.5	+4.8		263.4						

DATE 6.4.80	INSTRUMENT MAN D. Marks	ROD MAN G. Litzinger	PARTY NUMBER 6834	NOTES CHECKED BY slw	LINE NO. 1	PAGE NA
AREA New York	TOPO MAP Hudson Falls	STATE NY	COUNTY WASHINGTON	RANGE	PPM	PARTY MANAGER L. DAVIS

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS
												LAT.	DEP.	Y	X			
102											TP					1,229,241	716,354	PREVIOUS X AT
	660		237° 38' 18"	-13.7°							BS	+475.4	+458.3	0	0			STATION 105.
103	330		232° 47'	-13.7°								-256	-208	1,229,464	716,607			NEW X AT STA.
104	0		X								X	0	0	1,229,720	716,815			104 FOR HORIZ.
105	330		52° 27'	-13.7°								+257	+207	1,229,977	717,022			ONIAL CORRECTION.
106	660		" "	"								+515	+413	1,230,235	717,228			D.M.
107	990		50° 3'	-13.7°								+797	+587	1,230,517	717,402			
108	1320		50° 21.3'	-13.7°							TP	+1059.4	+788.3	1,230,783	717,606			

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY			LINE NO.	PAGE				
6.4.80		DMarks		G. Litzinger		6834		GWC. rlu			ONE	11				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE	PPM	PARTY MANAGER				
New York		Hudson Falls/Putnam Mtn		NEW YORK		WASHINGTON						L. DAVIS				
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
									254.6							
104	330		234° 27'		-5.5	89°	+5.8	+0.3		258.9					see page 11-A for horizontals (102-108)	
					-6.8	L										
105	0				0	-		-5.0		253.4	X					
106	330		54° 5.6'		-6.8	L		-6.8		251.8						
			39° 7'													
107	660		50° 39'		-6.3	L		-8.3		230.3						
			26° 20.5'													
108	990		38° 51' 28.5"		-10.0	L		-10.0		248.6	TP				↑ Hudson Falls Quad.	
108	990				-15.0	74	+5.0	-10.0			TP			1230.783	717.606	
	1316		243° 19.5' -180°	-13.7°	+10.3	85°	-23.0	-8.7			BS	+852+4	+1003+3	1231.739	curve	
	1316				+10.4	80° 10'	-19.1	-8.7	239.9		BS					
109	990		242° 4.3'	-13.7°	-14.6	89°	+17.3	+2.7		242.6		-658	-740	1230.981	717.872	Putnam Mountain Quad.
110	660		240° 8'	-13.7°	-11.6	89°	+11.5	-0.1		239.8		-455	-478	1231.184	718.134	↓
111	230		235° 7.6'	-13.7°	-1.7	L		-1.7		238.2		-247	-218	1231.392	718.394	
112	0				-5.0			-5.0		234.9	X	0	0	1231.639	718.612	
113	330		53° 8.9'	-13.7°	-12.8	L		-12.8		227.1		+255	+210	1231.874	718.822	
114	660		"	"	-6.8	91°	-11.5	-18.3		221.6		+510	+419	1232.149	719.031	
115	990		"	"	-4.1	91°	-17.3	-21.4		218.5		+764	+629	1232.403	719.241	
116	1320		"	"	-13.9	84	-6.6	-20.5		219.4		+1019	+839	1232.658	719.451	
117	<del>659</del> 1650		53° 8.9'	-13.7°	-10.4	84	-8.3	-18.7		221.2	TP	+1274.4	+1048.3	1232.917	719.663	1650' DIST 2ND RUN
117	+657 1650		5" "		-13.8	90° 10'	-4.8	-18.6			TP					DM

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
6-4-80		D Marks		G. Litzinger		6834		Gwl. rlu		1	12			
AREA		TOPO MAP	STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER					
New York		Putnam Mountain/Fort Ann	NEW YORK	WASHINGTON					L. DAVIS					
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
117										221.2				
	990		232°37'19"	-13.7°	+5.1	L		+5.0			BS	+770+4	+622+3	0 0
	990				+10.0	7H	-5.0	+5.0	226.2		BS			
118	660		232°37'	-13.7°	-3.5	L		-3.5		222.7		-514	-415	1233,177 719,873
119	330		" "	" "	-3.1	L		-3.0		223.2		-257	-207	1233,434 720,081
120	0				-5.0	-		-5.0		221.2	TP	0	0	1253,691 720,288
121	330		54°02'	-13.7°	-14.5	BH	-1.7	-16.2		210.0		+252	+214	1233,943 720,502
122	660		56°31'	-13.7°	-15.0	2°-	-11.5	-24.5		201.7		+488	+445	1234,179 720,733
123	996		56°35.3	-13.7°	-4.9	91°-	-17.4	-22.3			TP	+730+4	+678+1	1234,425 720,967
123	996				-2.1	91°0'	-26.3	-22.4		203.8	TP			
	992		262°22.5'	-13.7°	+3.8	89°-	-17.3	-13.5	190.3		BS	+361+4	+924	0 0
	<del>660</del>				+6.8	88°50'	-20.2	-13.4			SS			
124	880		263°33'	-13.7°	-4.9	89°-	+11.5	+6.6		196.9		-227	-620	1234,563 721,271 Putnam Mountain Quad.
125	330		" "	" "	-2.9	89°-	+5.8	+2.9		193.2		-114	-310	1234,676 721,581 Fort Ann Quad.
126	0				-5.0	-		-5.0		185.3	TA	0	0	1234,790 721,891 ↓
127	330		53°03.8'	-13.7°	-9.5	91°-	-5.8	-15.3		175.0		+116	+309	1234,906 722,200
128	660		" "	" "	-2.8	91°-	-11.5	-14.3		176.0		+233	+618	1235,023 722,509
YY	739		81°34.7'	-13.7°	-14.3	-		-14.3		176.0		+278	+685	1235,068 722,576 X-intersect.
YY	739				-10.6	BH	-3.7	-14.3						
129	989		80°55.7'	-13.9°	-12.1	BH	-4.9	-17.0		173.3	TP	+386+3	+911	1235,179 722,802
129	989				-14.2	90°10'	-2.9	-17.1			TP			

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6.4.80		DMarks		G.Ltzinger		6834		G.W.C.		1		13			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
New York		Fort Ann		NY		WASHINGTON								L.DAVIS	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
129										173.3					
	650		230°32'48"	-13.9°	40.8	TL1	-3.3	-2.57			BS	+522.3	+388		
	650				+3.2	89°30'	-5.7	-2.57	170.8		BS				
130	330		222°28.6'	-13.9°	-3.2	L		-3.2		167.6		-290	-158	1235,414	723,032
BM	200		210°0.6'	-13.9°	-3.5	L		-3.57		167.3	N	-192	-55	1235,592	723,135
BM	200		"	"	-2.5	BL1	-1.0	-3.57							USGS ec 167 TT 18 WES 1942
131	0				-5.0	--		-5.0		165.8	A	0	0	1235,704	723,190
132	330		230°37.2'	-13.9°	-6.5	L		-6.5		164.3		+318	+89	1236,022	723,279
133	656		24°23.9'	-13.9°	-9.5	L		-9.57		161.3	TD	+645.3	+120	1236,352	723,310
133	656				-6.2	BL1	-3.3	-9.57			TD				last sta. on Route #4
	660		269°42.2'±180"	-13.9°	+1.5	89°	-11.5	-7.07			BS	+162.3	+640		horiz. correct. y=+52' x=+25'
	660		"		+6.5	88°50'	-13.4	-6.97	154.4		BS				
TF	680		271°48.7'	-13.9°	-4.7	89°	+11.9	+7.27		161.6		-142	-665	1236,375	723,285
TF	680				6.7	88°50'	+13.8	+7.17							1236,375+723,285 T-intersect.
134	330		260°42.0'	-13.9°	3.4	89°	+5.8	+2.4		156.8		-81	-320	1236,436	723,630
135	0				-5.0	--		-5.0		149.4	A	0	0	1236,617	723,950
#	168		107°54.4'	-13.9°	-14.3	L		-14.3		140.1		+4	+168	1236,521	724,118
136	330		101°28.2'	-13.9°	12.1	91°	-5.8	-18.9		135.5		+14	+330	1236,531	724,280
137	662		102°17.3'	-13.9°	-9.1	91°	-11.6	-20.77		133.7	TD	+19-1	+662-1	1236,535	724,611
137	662				-7.1	91°10'	-13.5	-20.67			TD				



DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
6/5/80		G. Cotcamp		D. Marks		6834		GWC		1	15						
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
New York		Fort Ann		N.Y.	Washington					L. Davis							
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS	
												LAT.	DEP.	Y	X		
									287.0								
147	0				5.4	-		-5.4		281.6	TP	0	0	1235,794	727,593		
148	330		85°15'	-13.9°	11.9	-		-11.9		275.1		+106	+313	1235,900	727,906		
149	642		78°34.2'	-13.9°	6.6	89°6'	+10.1	+9.5		296.5	TP	+275-1	+580-1	1,236,068	729,172	curve	
149	642				10.3	88°4'	+19.8	+9.5			TP						
	330		264°57.3'-180°	-13.9°	+2.2	-		+2.2	298.7		BS	+107-1	+312-1				
	330				+3.9	TH	-1.7	+2.2			BS						
150	0				5.4	-		-5.4		293.3	TP	0	0	1236,174	728,483	set-up opposite sta.	
151	330		98°22.3'	-13.9°	13.6	-		-13.6		285.1		+32	+328	1236,206	728,811		
152	660		" "	"	13.0	-		-13.0		285.7		+64	+657	1236,238	729,140		
153	990		98°22.3'	-13.9°	14.3	89°-	+17.3	+3.0		301.6	TP	+95-1	+985-1	1,236,268	729,467		
153	990				5.8	89°30'	+8.6	+2.8			TP						
	660		260°25.3'-180°	-13.9°	+2.3	89°-	-11.5	-9.2	292.4		BS	+263-1	+605-1				
	660				+4.2	88°50'	-13.4	-9.2			BS						
154	330		255°42'	-13.9°	2.7	-		-2.7		289.7		-155	-291	1,236,375	729,780		
155	0				5.4	-		-5.4		287.0	TP	0	0	1,236,530	730,071		
156	330		74°1.2'	-13.9°	6.9	-		-6.9		285.5	TP	+164-1	+286-1	1,236,693	730,356		
156	330				8.6	TH	+1.7	-6.9			TP						
	328		235°39'-180°	-13.9°	+12.4	91°-	+5.7	+18.1			BS	+245-1	+218-1				
	328				+10.4	91°20'	+7.6	+19.0	303.5		BS					curve	
157	0				5.4	-		-5.4		298.1	TP	0	0	1,236,937	730,573		

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
5/5/80		G. Cotcamp		D. Marks		6834		GWC. <i>slw</i>		1	16						
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
N.Y.		Fort Ann		N.Y.	Washington					L. Davis							
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS	
												LAT.	DEP.	Y	X		
									303.5								
158	330		60° 4'	-13.9°	13.3	-		-13.3		290.2		+229	+238	1,237,166	730,811		
159	660		60° 4'	-13.9°	7.7	91°-	-11.5	-19.2		284.3	TP	+457-1	+476-1	1,237,393	731,048		
159	660				9.6	90°50'	-9.6	-19.2			TP						
	330		245° 2' -180°	-13.9°	+6.0	88°30'	-8.6	-2.6	281.7		BS	+207-1	+257-1				
	330				+3.1	89°-	-5.8	-2.7			BS						
160	0				5.4	-		-5.4		276.3	X	0	0	1,237,599	731,304	set-up opposite sta.	
161	332		93°34'	-13.9°	10.8	94°-	-23.1	-33.9		247.8	TP	+60-1	+327-1	1,237,658	731,630		
161	332				11.4	93°54'	-22.5	-33.9			TP						
	990		274° 19.7' -180°	-13.9°	+5.1	91°-	+17.3	+22.4			BS	+165-1	+976-1				
	990				+13.8	90°30'	+8.6	+22.4	270.2		BS						
162	660		274° 19.7'	-13.9°	11.0	91°30'	-17.3	-28.3		241.9		-110	-651	1,237,712	731,954		
163	330		" "	"	13.7	84°	-1.7	-15.4		254.8		-55	-325	1,237,767	732,280		
164	0				5.4	-		-5.4		264.8	X	0	0	1,237,922	732,605		
165	330		90°35.3'	-13.9°	1.2	88°-	+11.5	+10.3		280.5		+76	+321	1,237,898	732,926		
166	660		90°35.3'	-13.9°	3.9	87°-	+34.5	+30.6			TP	+152-1	+642-1	1,237,973	733,246		
166	660				0.9	87°16'	+31.4	+30.5		300.7	TP						
	660		274° 58.5' -180°	-13.9°	+10.6	91°-	+11.5	+22.1			BS	+102-1	+652-1				
	660				+14.5	90°40'	+7.7	+22.2	322.9		BS						
167	330		270° 4'	-13.9°	10.3	-		-10.3		312.6		-79	-320	1,237,995	733,577		
168	0				5.4	-		-5.4		317.5	X	0	0	1,238,074	733,897		

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
6/5/80		G. Cotcamp		D Marks		6834		G.W.C. <i>rlw</i>		1	17				
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER					
N.Y.		Fort Ann		N.Y.	Washington					L. Davis					
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									322.9						
169	330		87°29'	-139°	3.1	-		-3.1		319.8		+93	+317	1,238,167	734,214
170	657		89°43'	-139°	4.9	-		-4.9		318.0	TP	+161-1	+637-1	1,238,234	734,533
170	657				8.2	TH	+3.3	-4.9			TP				
	660		259°34.8'-180°	-139°	+1.7	TH	-3.3	-1.6			BS	+272-1	+601-1		
	660				+1.1	89°46'	-2.7	-1.6	316.4		BS				
171	330		259°34.8'	-139°	6.6	-		-6.6		309.8		-136	-301	1,238,369	734,832
172	0				5.4	-		-5.4		311.0	X	0	0	1,238,505	735,133
173	338		90°28'	-139°	4.3	88°-	+11.8	+7.5		323.9	TP	+79-2	+329-2	1,238,582	735,460
173	338				2.3	88°20'	+9.8	+7.5			TP				T.P. opposite sta.
	335		310°5'-180°	-139°	+7.9	89°10'	-4.9	+3.0			BS	-148-2	+301-2		
	335				+8.3	89°6'	-5.3	+3.0	326.9		BS				
174	0				5.4	-		-5.4		321.5	X	0	0	1,238,432	735,759
175	320		119°43'	-139°	9.9	89°-	+5.6	-4.3		322.6	TP	-87-2	+308-2	1,238,393	736,065
175	320				9.0	89°10'	+4.7	-4.3			TP				
	660		279°13'-180°	-139°	+6.1	88°-	-23.0	-16.9			BS	+5A-2	+658-2		
	660				+4.2	88°10'	-21.1	-16.9	305.7		BS				
176	330		279°13'	-139°	1.5	89°-	+5.8	+4.3		310.0		-27	-329	1,238,368	736,392
177	0				5.4	-		-5.4		300.3	X	0	0	1,238,395	736,721
≠	190		103°27.5'	-139°	14.5	-		-14.5		291.2	TP	+1-1	+190-1	1,238,395	736,910
≠	190				13.5	84	-1.0	-14.5			TP				split sta. - curve

1,238,395 X 736,910  
T-intersect EL 291

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE								
6/5/80		G. Cotcamp		D. Marks		6834		GWC		1	18								
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER									
N.Y.		Fort Ann		N.Y.	Washington					Davis									
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS	
												LAT.	DEP.	Y	X				
51										291.2									
	800		239°35.3'-180°	-139°	+53	-		+5.37			BS	+559-2	+572-2						
	800				+9.3	TH	-4.0	+5.37	296.5		BS								
178	660		238°32'	-139°	9.3	-		-9.3		287.2		-470	-464	1,238,482	737,016				
179	330		" "	"	9.8	-		-9.8		286.7		-235	-232	1,238,717	737,248				
180	0				5.4	-		-5.4		291.1	π	0	0	1,238,952	737,480				
181	330		89°4'	-139°	13.8	-		-13.8		282.7		+84	+319	1,239,036	737,799				
182	660		91°-	-139°	13.5	91°20'	-15.4	-28.9		267.6		+147	+643	1,239,099	738,123				
183	990		93°41'	-139°	14.8	91°4'	-18.4	-33.27		263.3	TP	+176-2	+974-2	1,239,126	738,452				
183	990				14.2	91°6'	-19.0	-33.27			TP								
	660	658	276°51'-180°	-139°	+11.4	86°-	-45.9	-34.57			BS	+81-2	+653-2						
	660				+7.6	86°20'	-42.1	-34.57	228.8		BS								
184	330	329	276°51'	-139°	4.1	86°-	+23.0	+18.9		247.7		-40	-327	1,239,165	738,776				
185	0				5.4	-		-5.4		223.4	π	0	0	1,239,205	739,103				
186	322	321	75°33'	-139°	10.6	94°-	-22.4	-33.0		196.8		+152	+283	1,239,357	739,386	curve			
187	640	639	69°37'	-139°	8.2	93°-	-33.4	-41.67		187.2	TP	+405-2	+495-2	1,239,608	739,596	"			
187	640				14.9	92°29'	-26.8	-41.77			π								
	990		235°12.3'-180°	-139°	+1.6	TH	-5.0	-3.47			BS	+744-2	+653-2						
	990				+13.9	89°-	-17.3	-3.47	183.8		BS								
188	660		235°12.3'	-139°	10.0	-		-10.0		173.8		-496	-436	1,239,854	739,811				
189	330		" "	"	11.6	-		-11.6		172.2		-248	-218	1,240,102	740,029				

**SURVEY NOTES-HIGH RESOLUTION DATA**

GEO-445

**Geosource Inc.**

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY			LINE NO.		PAGE		
6/5/80		G. Cotcamp		D. Marks		6839		GWC <i>dlw</i>			1		19		
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
N.Y.		Fort Ann		N.Y.		Washington								Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									183.8						
190	0				54	-		-5.4		178.4	T	0	0	1,240,350	740,247
191	330		62°20'	-139°	59	88°-	+11.5	+5.6		189.4		+219	+247	1,240,569	740,494
192	652	652'	69°21.3'	-139°	8.6	88°-	+22.7	+14.1			TP	+370	+537.2	1,240,720	740,782
192	652				4.8	88°20'	+19.0	+14.2		198.0	TP				
	990		276° 1.2' -190°	-139°	+9.0	-		+9.0			BS	+136	+981.2		
	990				+14.0	TH	-5.0	+9.0	207.0		BS				
193	660		276° 1.2'	-139°	4.1	91°-	-11.5	-15.6		191.4		-90	-654	1,240,766	741,107
194	330		" "	"	11.0	91°-	-5.8	-16.8		190.2		-45	-327	1,240,811	741,434
195	0				5.9	-		-5.4		201.6	T	0	0	1,240,856	741,761
196	330	329	98°1'	-139°	5.4	85°-	+28.7	+23.3		230.3		+34	+327	1,240,890	742,088
TP	515	513'	95° 59.6'	-139°	3.3	85°-	+44.7	+41.4		248.4	TP	+71	+508.2	1,240,927	742,267
TP	515				1.8	85°10'	+43.2	+41.4			TP				
BS	86.8	866'	1° 15.2' +190°	-139°	+3.6	86°30'	-52.9	-49.3			BS	-845	+190.1		
BS	86.8				+6.1	86°20'	-55.4	-49.3	199.1		BS				CURVE
197	655	654	359° 1.3'	-139°	14.1	86°30'	+39.9	+25.8		224.9		+632	-168	1,240,714	742,288
198	327	326	4° 55.8'	-139°	11.6	86°20'	+20.9	+9.3		208.4		+322	-51	1,240,804	742,405
199	0				5.4	-		-5.4		193.7	T	0	0	1,240,082	742,456
200	330		199° 28.3'	-139°	12.5	-		-12.5		186.6		-328	-32	1,239,754	742,424
201	660		"	"	11.8	84	-3.3	-15.1		184.0		-657	-64	1,239,425	742,392

1,240,900 + 742,255  
FAD

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 6/6/80		INSTRUMENT MAN G LITZINGER		ROD MAN D Marks		PARTY NUMBER 6834		NOTES CHECKED BY GWC rlu			LINE NO. 1	PAGE 20			
AREA New York		TOPO MAP Fort Ann		STATE N.Y.		COUNTY WASHINGTON		TWP	RANGE	PPM	PARTY MANAGER DAVIS				
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									199.1						
202	990		199° 29.3	-13.9°	14.2	BH	-5.0	-19.2			TP	-985	-96	1,239,097	742,360
202	990				10.5	90° 30'	-8.6	-19.1	180.0		TP				
	330	330'	28° 6.4 + 190°	-13.9°	+13.1	92° -	+11.5	+24.6			BS	-320	-81		
	330				+12.2	92° 10'	+12.5	+24.7	204.7		BS				
203	0				5.4	-		-5.4	199.3		TP	0	0	1,238,777	742,279
204	330		210° 39.1'	-13.9°	1.9	-		-1.9	202.8			-316	-95	1,238,461	742,184
<del>205</del>	<del>658</del>		<del>208° 17.6</del>		<del>2.6</del>	<del>89° 30'</del>									
205	658		208° 17.4'	-13.9°	2.4	89° 30'	+5.7	+3.3	208.0		TP	-637	-164	1,238,140	742,115
205	659				4.4	89° 20'	+7.7	+3.3			TP				
	497	406'	13° 16.3 + 180	-13.9°	+10.8	94° -	+34.4	+45.4	263.4		BS	-496	+5		
	497				+9.3	94° 10'	+36.0	+45.3			BS				
204	167		13° 16.3	-13.9°	12.1	91° -	-2.9	-15.0	238.4			+167	-2	1,237,811	742,118
TP	0				5.4	-		-5.4	248.0		TP	0	0	1,237,644	742,120
207	147		192° 50.3	-13.9°	8.5	-		-8.5	244.9			-147	+3	1,237,497	742,123
208	477		" "	" "	9.2	-		-9.2	244.2			-477	+9	1,237,167	742,129
209	807		188° 44.7	-13.9°	9.4	90° 10'	-2.3	-11.7			TP	-804	+72	1,236,840	742,192
209	807		188° 48.7	-13.9°	7.4	BH	-4.0	-11.8	241.6		TP				
BS	638	637'	311° 50.3 - 180	-13.9°	+12.9	87° 30'	-27.8	-14.9	226.7		BS	-298	+563		CURVE
BS	638				+11.0	87° 40'	-26.0	-15.0			BS				
210	330		303° 50.4'	-13.9°	4.1	88° -	+11.5	+7.4	234.1			+113	-310	1,236,655	742,445

BETWEEN STATIONS



DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
6/6/80		G. LITZINGER		D. Marks		6834		GWC. <i>slw</i>		1		22				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
NEW YORK		Fort Ann		NY		WASHINGTON								DAVIS		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH+ SOUTH-	EAST+ WEST-	COORDINATES		REMARKS
														Y	X	
										304.1						
B5	352		289° 18.3' -180°	-13.9	+13.4	91° -	+6.1	+19.5	223.6		B5	-33-2	+350-2			
B5	352				+12.3	91° 10'	+7.2	+19.5			B5					CURVE
223	39		281° 7.4'	-13.9	5.7	-		-5.9		317.7		-2	-39	1,235,270	746,424	
TP	0				5.4	-		-5.4		318.2	TP	0	0	1,235,272	746,463	BETWEEN STATION STEEL FENCE
224	291	291'	92° 47.2'	-13.9	5.5	87° -	+15.2	+9.7		333.3		+56	+286	1,235,328	746,749	
225	621	620'	92° 47.2'	-13.9	6.0	87° -	+32.5	+26.5		350.1	TP	+120-2	+628-2	1,235,390	747,069	
225	621				4.2	87° 10'	+30.7	+26.5			TP					
	990	989'	255° 14.2' -180°	-13.9	+3.7	92° 10'	+37.4	+41.1			B5	+474-2	+868-2			
	990				+0.9	92° 20'	+40.3	+41.2	391.3		B5					
226	660	659'	255° 14.2'	-13.9	7.3	92° 20'	-26.8	-34.1		357.2		-36	-578	1,235,346	747,357	
227	330	330'	" "	"	10.8	93° -	-17.2	-28.0		363.3		-158	-290	1,235,704	747,645	
228	0				5.4	-		-5.4		385.9	TP	0	0	1,235,862	747,935	
229	330	330'	74° 53'	-13.9	4.4	87° -	+17.2	+12.8		404.1		+160	+289	1,236,022	748,224	
230	660	659'	74° 53.0'	-13.9	10.4	87° 30'	+28.8	+18.4		409.7	TP	+320-2	+576-2	1,236,180	748,509	
230	660				12.3	87° 30'	+30.7	+18.4			TP					
	985		228° 18.4' -180°	-13.9	+12.6	90° 30'	+8.6	+21.2	430.9		B5	-1813-2	+557-2			CURVE
	985				+9.7	90° 40'	+11.5	+21.2			B5					
231	660		225° 56'	-13.9	14.4	90° 30'	-5.8	-20.2		410.7		-560	-350	1,236,431	748,714	
232	330		" "	"	12.4	-		-12.4		418.5		-280	-175	1,236,711	748,889	
233	0				5.4	-		-5.4		425.5	TP	0	0	1,236,991	749,064	

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
6/6/80		G. LITZINGER		D. Marks		6934		GWC <i>revis</i>		1	23				
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER					
New York		Fort Ann		NY	Washington					DAVIS					
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									430.9						
234	330		38° 46.3'	-13.9°	10.3	—		-10.3		420.6		+299	+139	1,237,290	749,203
235	660		"	"	13.8	90° 30'	-5.8	-19.6		411.3		+599	+278	1,237,590	749,342
236	990		38° 46.3'	-13.9°	16.0	70° 30'	-9.6	-23.6		407.3	TP	+898.2	+416.2	1,237,887	749,478
236	490				12.1	90° 40'	-11.5	-23.6			TP				
	325	325'	232° 53.8'-180°	-13.9°	+11.8	85° 50'	-34.7	-22.9			BS	+251.3	+203.2		CURVE
	325				+12.8	83° 40'	-35.6	-22.8	384.5		BS				
237	0				5.4	—		-5.4		379.1	T	0	0	1,238,135	749,679
238	330	328	94° 38.4'	-13.9°	2.1	96° —	-34.3	-36.4		348.1		+53	+324	1,238,188	750,003
71	390	388'	92° 49.4'	-13.9°	1.9	98° 40'	-38.3	-40.2		344.3		+75	+381	1,238,210	750,060
239	660	659'	94° 38.4'	-13.9°	4.3	93° —	-34.5	-38.8		345.7	TP	+106	+650	1,238,241	750,329
239	660	659			2.4	93° 10'	-36.4	-38.8			TP				
	660	659	275° 7.5'-180°	-13.9°	+9.6	93° —	+34.5	+44.1			BS	+101	+651		
	660	659			+5.8	93° 30'	+38.3	+44.1	389.8		BS				
240	330		275° 26'	-13.9°	7.5	93° —	-17.2	-24.7		365.1		-50	-326	1,238,292	750,654
241	0				5.4	—		-5.4		384.4	T	0	0	1,238,342	750,980
242	330		94° 10.3'	-13.9°	3.5	86° —	+23.0	+19.5		409.3		+56	+325	1,238,398	751,305
243	660	657'	9° 10.3'	-13.9°	9.7	85° —	+57.3	+47.6		437.4	TP	+111	+648	1,238,453	751,628
243	660	657			7.8	85° 10'	+55.4	+47.6			TP				
	1317		275° 51.6'-180°	-13.9°	+0.4	TH	-6.6	-6.2	431.2		BS	+184	+1304		
	1317				+5.3	89° 30'	-11.5	-6.2			BS				

horiz. correct. y=-30'  
x=-37'

1,238,210 + 750,060  
trail (north)

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE		
6.9.80		DMarks		GLitzinger		6834		Gwc rls		1		24		
AREA		TOPO MAP		STATE		COUNTY		RANGE		PPM		PARTY MANAGER		
New York		Fort Ann/Granville		NEW YORK		WASHINGTON						L.DAVIS		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									431.2					
244	1065		276°30'	-13.9	-7.0	BH	-5.3	-12.3		418.9		-137	-1056	1,238,500 751,876
245	990		275°52'	-13.9	-9.4	9030	-8.6	-18.0		413.2		-138	-981	1,238,499 751,952
246	660		"	"	-9.8	91°	-11.5	-21.3		409.9		-92	-654	1,238,545 752,278
247	330		"	"	-10.6	-	-	-10.6		420.6		-46	-327	1,238,591 752,605
248	0				-5.4	-5.4	-	-5.4		425.8	T	0	0	1,238,631 752,932
249	330		94°33'	-13.7	-4.8	<del>91°</del>	-	-4.8		426.4		+52	+326	1,238,689 753,258
250	660		"	"	-5.0	-	-	-5.0		426.2		+105	+652	1,238,742 753,584
250	990		94°29.5'	-13.7	-12.0	8930	+8.6	-4.3		426.9	TD	+158	+977	1,238,795 753,909
250	990		" "	"	-10.1	8940	+5.8	-4.3			TD			
	1219	1316'	274°52.5-190	-13.7	+10.0	8546	-93.3	-83.3			BS	+202	+1300	
	1319		" "	"	+4.0	86011	-87.6	-83.6	343.5		BS			
251	990	989'	274°36'	-13.7	-8.2	87°	+51.7	+43.5		387.0		-137	-980	1,238,860 754,229 ↑
252	660		275°29'	-13.7	-8.2	87°	+17.3	+9.1		352.6		-94	-653	1,238,903 754,556 Fort Ann Quad.
253	330		273°25'	-13.7	-10.1	8830	+8.6	-1.5		342.0		-59	-325	1,238,938 754,884 Granville Quad.
254	0				-5.4	-	-	-5.4		338.1	T	0	0	1,238,997 755,209 ↓
255	330		930	-13.7	-1.7	-	-	-1.7		341.8		+61	+324	1,239,058 755,533
256	660		94°30'	-13.7	-6.1	8830	+17.3	+11.2		354.7		+106	+652	1,239,103 755,861
257	990		150	-13.7	-2.7	8830	+25.9	+13.2		356.7		+150	+979	1,239,147 756,188
258	330		94°30'	-13.7	-7.0	8830	+34.5	+27.5		371.0		+211	+1303	1,239,208 756,512
7F	1392		94°32.4°	-13.7	-5.3	8830	+36.4	+31.1			TP	+222	+1374	1,239,219 756,583

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE		
6.9.80		D. Marks		G. Litzinger		6834		G.V.C. selw		1		25		
AREA		TOPO MAP		STATE		COUNTY		RANGE		PPM		PARTY MANAGER		
New York		Granville		NY		WASH'TON						LD		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									343.5					
TF	1392		94°32.4'	-13.7°	-1.3	88°40'	+22.4	+31.1		374.6	TP			
	637		358°213-180	-13.7°	18.1	88°30'	-16.7	-8.6			BS	-614	+167	
	637				+6.2	88°40'	-14.8	-8.6	366.0		BS			
259	330		0°43.3'	-13.7°	-1.0	TH	+1.7	+0.7		366.7		+322	-74	1,238,927 756,676
260	0				-5.4	-		-5.4		360.6	T	0	0	1,238,605 756,750
261	320		185°31'	-13.7°	-0.0	--		-9.0		357.0		-327	+47	1,238,278 756,797
TF	519		184°56.5'	-13.7°	-11.0	L		-11.0			TP	-513	+79	1,238,092 756,829 AT A
TF	519		"		-13.5	TH	+2.6	-10.9		355.1	TP			
	432	432	247°103'-180°	-13.7°	+7.7	92°	+15.1	+22.8	377.9		BS	+257	+347	
	432		"		+6.4	92 10	+16.3	+22.7			BS			
262	330		245°12'	-13.7°	-9.7	92°	-11.5	-21.2		356.7		-205	-258	1,238,144 756,918
263	0				-5.4	-		-5.4		372.5	T	0	0	1,238,349 757,176
264	330	329'	85°-	-13.7°	-7.7	85°	+28.7	+21.0		398.9		+106	+313	1,238,455 757,489
265	660	657'	84°21.3'	-13.7°	-4.0	84°30'	+6.30	+59.0		436.9	TP	+218	+620	1,238,567 757,796
265	660		"		-2.2	84°40'	+6.11	+58.9			TP			
	660	657'	250°47'-180	-13.7°	+5.6	95°	+57.3	+62.9	499.8		BS	+357	+552	
	660		"		+3.7	95°10'	+59.2	+62.9			BS			
266	330	329'	249°40'	-13.7°	-7.0	95°	-28.7	-35.7		464.1		-185	-273	1,238,739 758,075
					-6.0	86								
267	0				-5.4			-5.4		494.4	T	0	0	1,238,924 758,348

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE							
6-9-80		D Marks		E Litzinger		6834		G.W.C. nlu		1		26							
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER					
New York		Granville		NY		WASH.								LD					
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH+ SOUTH -		EAST+ WEST -		COORDINATES		REMARKS	
												LAT.	DEP.	Y	X				
									499.8										
268	330	329'	62° 28.5'	-13.7	-6.0	86°	+23.0	+17.0		576.8		+217	+247	1,238,141	758,595				
269	660	658'	62° 37.8'	-13.7	-4.6	86	+45.9	+41.3			TP	+432	+496	1,239,356	758,844				
269	660		" "	"	-2.6	86° 10'	+44.0	+41.4		541.2	TP								
	328		248° 19' -180	-13.7	+8.8	92°	+11.4	+20.2			BS	+190	+267						
	328		" "	"	+7.9	92° 10'	+12.4	+20.3	561.5		BS								
270	0				-5.4	-	-	-5.4		556.1	T	0	0	1,239,546	758,111				
271	323		41° 3.2'	-13.7	-2.8	89°	+5.6	+2.8		564.3	TP	+287	+148	1,239,833	759,259				
271	323		" "	"	-1.9	89° 10'	+4.7	+2.8			TP								
	660		203° 8.3' -180	-13.7	+3.8	92	+23.0	+26.8			BS	+651	+108						
	660		" "	"	+1.9	92° 10'	+24.9	+26.8	591.1		BS								
272	330		200° 7.5'	-13.7	-4.6	92	-11.5	-16.1		575.0		-328	-37	1,240,156	759,330				
273	0				-5.4	-	-	-5.4		585.7	T	0	0	1,240,484	759,367				
274	333		37° 4.3'	-13.7	-5.0	88° 10'	+10.6	+5.6		596.7	TP	+306	+132	1,240,790	759,499				
274	333		" "	"	-6.0	88°	+11.6	+5.6			TP								
	990		220° 13.3' -180	-13.7	+11.0	92°	+34.5	+45.5	642.2		BS	+885	+445						
	990		" "	"	+8.1	92° 10'	+37.4	+45.5			BS								
275	660		219° 35'	-13.7	-1.0	92°	-23.0	-34.6		607.6		-594	-288	1,241,081	759,656				
276	330		217° 10'	-13.7	-12.5	92°	-11.5	-24.0		618.2		-302	-131	1,241,373	759,813				
277	0				-5.4	-	-	-5.4		636.8	T	0	0	1,241,675	759,944				ACROSS RD

DATE		INSTRUMENT MAN			ROD MAN			PARTY NUMBER		NOTES CHECKED BY			LINE NO.	PAGE		
6.9.80		D. Marks			G. Litzinger			6834		G.W.C. <i>slw</i>			1	27		
AREA		TOPO MAP		STATE	COUNTY			TWP	RANGE	PPM	PARTY MANAGER					
New York		Granville		New York	Washington						L. Davis					
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS
												LAT.	DEP.	Y	X	
									642.2							
278	339	339'	54°50.7'	-13.7	-7.5	87°	+17.7	+10.22		652.4	TP	+255	+223	1,241,930	760,167	
278	339	"	"	"	-6.5	87°10'	+16.7	+10.25			TP					
	996		260°50.1'-180	-13.5	+12.6	L		+12.62			BS	+381-1	+914			
	996		" "		+7.6	BH	+5.0	+12.65	665.0		BS					
279	660		259°18'	-13.5°	+12.4	BH	-3.3	-15.7		649.3		-271	-602	1,242,039	760,479	
280	330		" "		-9.1	L		-9.1		655.9		-135	-301	1,242,175	760,798	
281	0				-5.4	-		-5.4		659.6	T	0	0	1,242,310	761,081	
282	330		80°11'	-13.5°	-8.2	88	+11.5	+3.3		668.3		+131	+303	1,242,441	761,389	
283	660		79°37'	-13.5°	-9.8	88	+23.0	+13.22		678.2	TP	+273-3	+601	1,242,580	761,682	
283	660		"		-7.9	88 10	+21.1	+13.25			TD					
	333		260°54'-180	-13.5°	+9.8	L		+9.87			BS	+128-2	+307			
	333		" "		+8.2	BH	+1.7	+9.75	688.1		BS					
284	0				-5.4	-		-5.4		682.7	T	0	0	1,242,706	761,989	ACROSS RD
285	332	331'	103°24.3'	-13.5°	-7.1	95°	-28.8	-35.92		652.2	TP	+1-3	+331	1,242,704	762,320	
285	332	"	"		-6.1	95 10	-29.8	-35.95			TP					
"	659	658'	271°34'-180	-13.5°	+6.6	87 30	-28.7	-22.17			BS	+142-3	+643			
	659	"	" "		+4.7	87 40	-26.8	-22.15	630.1		BS					
286	330		273°35'	-13.5°	-6.9	87 30	+14.4	+7.5		637.6		-57	-325	1,242,796	762,638	
287	0				-5.4	-		-5.4		624.7	T	0	0	1,242,843	762,963	
288	330		96°5'	-13.5°	-11.5	92	-11.5	-23.0		607.1		+43	+327	1,242,886	763,270	



DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
6/9/80		G. Cotcamp		D. Marks		6834		GWC. rlu		1		29				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
New York		Granville		New York		Washington								DADIS		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
									667.5							
FF	820		265°29.5'	-13.5°	-96	91°	-14.3	-23.9		643.6	TL TP	-254	-780	1,244,704	766,1089	4-way Intersect.
299	660		"	"	-94	91°	-11.5	-20.9		646.6		-204	-628	1,244,753	766,241	
300	330		"	"	13.5	BH	-1.7	-15.2		652.3		-102	-314	1,244,956	766,555	
301	0				-3.1	-		-5.4		662.1	A	0	0	1,244,958	766,869	
302	330		78°	-13.5°	-82	88°	+11.5	+3.3		670.9		+102	+108	1,245,100	767,167	
303	661	660'	77°13.1'	13.5°	-12.1	86°30'	+40.3	+28.2		695.7	TP	+292-3	+592+3	1,245,247	767,464	
303	661	"	"	"	-14.0	86°20'	+42.2	+28.2			TP					
	990	988'	230°41.6'-180	-13.5°	+10.0	93°56'	+67.7	+77.7	773.4		BS	+787-3	+597+3			horiz. correct. Y = -39' X = +20'
	990	"	"	"	+4.0	94°17'	+73.7	+77.7			BS					
FF	1058	1055'	232°43.7'	-13.5°	-5.0	94°19.3'	-79.5	-84.5		698.9		-817-4	-667+3	1,245,210	767,400	1,245,210 + 767,400 Y-intersect.
304	660	658'	230°50'	-13.5°	-74	94°	-45.9	-53.3		720.1		-523	-399	1,245,508	767,665	
305	330	329'	230°34'	-13.5°	-6.3	94°	-23.0	-29.3		744.1		-263	-198	1,245,768	767,866	
306	0				-5.9	-		-5.4		768.0	T	0	0	1,246,031	768,064	ACROSS RD.
307	334		79°43.1'	-13.9°	-1.0	88°	+11.6	+10.6		784.0	TP	+137	+305-3	1,246,168	768,366	
307	334				-2.0	87°50'	+12.6	+10.6			TP					
	330		262°59'-180°	-13.9°	+5.4	88°50'	-6.7	-1.3	782.7		BS	+118	+308-3			
	330				+7.3	88°30'	-8.6	-1.3			BS					
308	0				5.4	-		-5.4		777.3	X	0	0	1,246,286	768,671	
309	328	328'	73°48'	-13.9°	13.3	93°	-17.1	-30.4		752.3	TP	+164	+284-2	1,246,450	768,953	curve
309	328				10.5	93°30'	-20.0	-30.5			TP					

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
6/10/80		G. Cotcamp		D. Marks		6834		G.W.C. rlw		1	30						
AREA		TOPO MAP	STATE	COUNTY		TWP		RANGE	PPM	PARTY MANAGER							
New York		Granville	New York	Washington						L. Davis							
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS	
												LAT.	DEP.	Y	X		
309										752.3							
	987	985'	225° 15.3'	-139°	+5.5	86° 14'	-64.7	-59.2			BS	+841	+513-2				curve
	987				+9.6	86° -	-68.7	-59.1	693.2		BS						
310	660	658'	222° 13'	-139°	5.2	86° -	+45.9	+40.7		733.9		-579	-312	1,246,712	769,152		
311	330		" "	"	1.9	87° -	+17.2	+15.3		708.5		-291	-157	1,247,000	769,307		
312	0				5.4	-		-5.4		687.8	X	0	0	1,247,291	769,469		
313	330		47° 22'	-139°	11.3	93° -	-17.2	-29.5		664.7		+275	+182	1,247,566	769,696		
314	666	665	47° 22'	-139°	4.4	93° -	-34.8	-39.2		654.0	TP	+555	+367-2	1,247,896	769,829		T.P. opposite station
314	666				12.2	92° 20'	-27.1	-39.3			TP						
	660		245° 25.8'	-142°	+4.2	-		+4.2	658.2		BS	+413	+515-2				
	660				+7.5	TH	-3.3	+4.2			BS						
315	330		245° 25.8'	-14.2°	11.1	-		-11.1		647.1		-207	-257	1,248,052	770,085		
316	0				5.4	-		-5.4		652.8	X	0	0	1,248,259	770,342		
317	330		69° 14'	-14.2°	12.1	91° -	-5.8	-17.9		640.3		+189	+270	1,248,448	770,612		
318	660		64° 39'	-14.2°	9.5	92° -	-23.0	-32.5		625.7	TP	+420	+509-2	1,248,679	770,849		
318	660				13.3	91° 40'	-17.2	-32.5			TP						
	330		238° 44'	-180°	+6.7	88° -	-11.5	-4.8	630.9		BS	+235	+231-2				
	330				+3.8	88° 30'	-8.6	-4.8			BS						
319	0				5.4	-		-5.4		615.5	X	0	0	1,248,914	771,078		
320	330		69° 21.3'	-14.2°	7.2	91° 30'	-8.6	-15.8		605.1		+189	+271	1,249,103	771,349		

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY			LINE NO.	PAGE			
6/10/80		G. Cotcamp		D. Marks		6834		G.W.C. rlu			1	31			
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER					
New York		Granville		New York	Washington					L. Davis					
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									620.9						
321	660		69°21.3'	-14.2°	121	91°30'	-17.3	-29.42		591.5	TP	+377	+592-2	1,249,291	771,618
321	660				10.2	91°40'	-19.2	-29.45			TP				
	660	659'	227°38'-180°	-14.4°	+4.7	86°20'	-42.1	-37.42	554.1		BS	+555	+356-2		
	660				+0.9	86°40'	-38.3	-37.45			BS				
322	330		227°3.8'	-14.4°	3.3	88°-	+11.5	+8.2		562.3		-278	-178	1,249,568	771,794
323	0				54	-		-5.4		548.7	TP	0	0	1,249,846	771,972
324	330		71°10'	-14.4°	128	93°-	-17.2	-30.0		524.1		+181	+276	1,250,027	772,248
325	660	658	"	"	11.5	94°-	-45.9	-57.4		496.7		+361	+550	1,250,207	772,522
326	990	988'	71°10'	-14.4°	12.0	94°-	-68.9	-80.92		473.2	TP	+541	+826-2	1,250,387	772,796
326	990				9.2	94°10'	-71.7	-80.95			TP				
	652		227°38'-180°	-14.4°	+1.1	89°10'	-9.5	-8.42			BS	+545+2	+357-2		
	652				+3.0	89°-	-11.4	-8.45	464.8		BS				curve
327	328		221°48'	-14.4°	5.8	-		-5.8		459.0		-291	-151	1,250,643	773,000
328	0				5.4	-		-5.4		459.4	TP	0	0	1,250,934	773,151
329	330		28°24.8'	-14.4°	0.2	-		-0.2		464.6		+320	+80	1,251,254	773,231
	601		22°29.8'	-14.4°	7.0	74	+3.0	-4.02		460.8	TP	+583	+146.	1,251,517	773,297
	601				9.3	89°30'	+5.2	-4.15			TP				1,251,20 + 773,260 T-intersect. - curve
	2080	2079	276°17.8'-180°	-14.4°	5.2	88°30'	-54.4	-49.22			BS	+293+2	+2058-2		
	2080				+11.2	88°20'	-60.5	-49.35	411.6		BS				
330	1980	1979	276°9'	-14.4°	4.0	88°30'	+51.8	+47.8		459.4		-284	-1959	1,251,528	773,394

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE							
6/10/80		G. Cotcamp		D. Markes		6834		GWC		1		32							
AREA		TOPO MAP		STATE		COUNTY		RANGE		PPM		PARTY MANAGER							
New York		Granville		New York		Washington						L. Davis							
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS	
												LAT.	DEP.	Y	X				
									411.6										
331	1650		276° 09'	-14.9°	2.3	89° -	+28.8	+26.5		438.1		-237	-1633	1,251,575	773,720				
332	1320		" "	"	0.2	TH	+6.6	+6.4		418.0		-189	-1306	1,251,623	774,047				
333	990		" "	"	4.3	-		-4.3		407.3		-142	-980	1,251,670	774,373				
334	660		" "	"	11.0	-		-11.0		400.6		-95	-653	1,251,717	774,700				
335	490		278° 53'	-14.9°	13.4	-		-13.4		398.2		-47	-488	1,251,765	774,865				north edge of bridge
335	330		276° 09'	-14.9°	13.2	-		-13.2		398.4		-47	-327	1,251,765	775,026				
336	0				5.4	-		-5.4		406.2	TP	0	0	1,251,812	775,353				
337	330		96° 33'	-14.6°	6.2	-		-6.2		405.4		+46	+327	1,251,858	775,680				
338	660		" "	"	3.8	-		-3.8		407.8		+92	+653	1,251,904	776,006				
339	990		" "	"	2.5	-		-2.5		409.1		+139	+980	1,251,951	776,333				
340	1320		" "	"	1.7	-		-1.7		409.9		+185	+1307	1,251,997	776,660				
341	1650		" "	"	0.2	-		-0.2		411.4		+231	+1634	1,252,043	776,987				
342	1980		96° 33'	-14.6°	10.0	TH	+9.9	-0.1		411.5	TP	+277.2	+1960.2	1,252,091	777,311				
342	1980				14.0	89° 36'	+13.8	-0.2			TP								
	660		276° 57.6' 180°	-14.6°	+8.4	-		+8.4			BS	+88.2	+654.2						
	660				+5.1	BH	+3.3	+8.4	419.9		BS								
343	820		277° 30'	-14.6°	8.5	-		-8.5		411.4		-101	-814	1,252,080	777,199				1,252,060 + 777,120 4-Way Intersect. (R#22)
343	330		276° 57.6'	-14.6°	10.8	-		-10.8		409.1		-44	-327	1,252,137	777,636				
344	0				5.4	-		-5.4		414.5	TP	0	0	1,252,181	777,963				
344	110		99° 9'	-14.6°	7.3	-		-7.3		412.6		+10	+110	1,252,191	778,073				1,252,180 + 778,090 4-Way Intersect.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY.		LINE NO.		PAGE				
6/10/80		G. Cotcamp		D. Marks		6834		GWC <i>rlw</i>		1		33				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
New York		Granville		New York		Washington								L. Davis		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
									419.9						Town of	
345	330		105° 7.5'	-14.6°	11.2	91° -	-5.8	-17.0			TP	-3+2	+330-2	1,252,180	778,291	Middle Granville
345	330				14.0	90° 30'	-2.9	-16.9		403.0	TP					↓
	620	619	277° 55.8' - 180°	-14.6°	+2.0	87° 0'	-30.6	-28.6	374.4		BS	+72+2	+615-2			
	620				+2.7	87° 6'	-31.3	-28.6			BS					
346	328		258° 50'	-14.6°	7.8	88° -	+11.4	+3.6		378.0		-143	-295	1,252,111	778,609	T-intersect
347	0				5.4	-	-	-5.4		369.0	X	0	0	1,252,254	778,904	west edge of river
348	338		57° 54.5'	-14.6°	6.5	-	-	-6.5		367.9	TP	+246+2	+232-2	1,253,502	779,134	
348	338				8.2	TH	+1.7	-6.5			TP					
	330		235° 54' - 180°	-14.6°	+10.8	-	-	+10.8	378.7		BS	+248+2	+218-2			
	330				+12.5	TH	-1.7	+10.8			BS					
349	0				5.4	-	-	-5.4		373.3	X	0	0	1,252,752	779,350	
350	334		85° 31.4'	-14.6°	7.5	-	-	-9.5		369.2	TP	+109+2	+316-2	1,252,863	779,664	
350	334				11.2	TH	+1.7	-9.5			TP					
	584		281° 14.2' - 180°	-14.6°	+9.0	92° -	+20.4	+29.4	398.6		BS	+34+2	+583-2			
	584				+14.1	91° 30'	+15.3	+29.4			BS					
351	254		281° 14.2'	-14.6°	13.5	92° -	-8.9	-22.4		376.2		-15	-254	1,252,884	779,991	
X	0				5.4	-	-	-5.4		393.2	X	0	0	1,252,899	780,245	
±	58		78° 46'	-14.6°	3.6	-	-	-3.6		395.0		+25	+52	1,252,924	780,297	T-rd (Depot + Demp St.)
#	110		81° 52'	-14.6°	1.3	-	-	-1.3		397.3		+43	+101	1,252,942	780,346	
352	75		87° 31'	-14.6°	2.8	-	-	-2.8		395.8		+22	+72	1,252,921	780,317	

SURVEY NOTES-HIGH RESOLUTION DATA  
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE		
6/10/80		G. Cotcamp		D. Marks		6834		GWC		1		34		
AREA		TOPO MAP		STATE		COUNTY		RANGE		PPM		PARTY MANAGER		
New York		Granville		New York		Washington						L. Davis		
STATION NO.	SLOPE DISTANCE	PLOTting DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									398.6					
353	370		60°59'	-14.6°	4.3	87°30'	+16.1	+11.8		410.4		+255	+268	1,253,154 780,513
354	695	694'	59°58.8'	-14.6°	8.0	87°-	+36.3	+28.3		426.9	TP	+487+2	+494-2	1,253,388 780,737
354	695				2.0	87°30'	+30.3	+28.3			TP			
	645		262°35'-180°	-14.6°	+4.3	89°-	-11.3	-7.0			BS	+242+2	+598-2	curve
	645				+6.2	88°50'	-13.1	-6.9	420.0		BS			horiz. correct. y=+24' x=-48'
	?				8.0									
354	360		273°8'	-14.6°	5.0	88°-	+12.6	+7.6		427.6		-72	-353	1,253,560 780,980 T-rd (north)
355	330		273°13'	-14.6°	4.2	88°-	+11.5	+7.3		427.3		-65	-324	1,253,567 781,009
356	0				5.4	-		-5.4		414.6	X	0	0	1,253,632 781,333
357	330		91°11'	-14.6°	8.6	91°-	-5.8	-14.4		405.6	1	+77	+321	1,253,709 781,654
358	660		91°11'	-14.6°	7.3	91°-	-11.5	-18.8		401.2	TP	+153-2	+642	1,253,783 781,975
358	660				15.0	90°20'	-3.9	-18.8			TP			
	660	659'	273°47.7'-180	-14.6°	+4.9	92°40'	+30.7	+35.6			BS	+124-2	+647	
	660	"			+3.0	92°50'	+32.6	+35.6	436.8		BS			
359	330		273°47.7	-14.3°	14.0	92°-	-11.5	-25.5		411.3		-60	-324	1,253,848 782,298
360	0				5.4	-		-5.4		431.4	X	0	0	1,253,905 782,622
361	134		91°13.1'	-14.3°	0.8	-		-0.8		436.0		+30	+131	1,253,935 782,753 T-road (north)
361	330		"		4.3	87°-	+17.2	+12.9		449.7		+75	+321	1,253,980 782,943
362	658	656'	95°31.3'	-14.3°	3.5	85°20'	+53.4	+49.9		486.7	TP	+100-3	+648-1	1,254,002 783,269
362	658	"			3.9	85°18'	+53.7	+49.8			TP			

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
6/11/80		GLITZINGER		D MARKS		6834		DM new		1	35					
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER						
NEW YORK		Granville		NEW YORK	WASHINGTON					DAVIS						
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS
												LAT.	DEP.	Y	X	
362	332		282° 34.4' - 180°	-14.3°	+8.4	92°	+11.6	+20.0		486.7	BS	+10-2	+332			CURVE
	332				+7.5	92° 10'	+12.5	+20.0	506.7		BS					
363	0				5.4	-		-5.4		501.3	TP	0	0	1,254,010	783,601	
364	318		108° 22.9'	-14.3°	5.2	87° 30'	+13.9	+8.7		515.4	TP	-23-2	+317-1	1,253,985	783,917	CURVE
364	318				6.1	87° 20'	+14.8	+8.7			TP					
	656		310° 7.0' - 180°	-14.3°	+13.9	84	+3.3	+17.2			BS	-286-2	+591-1			CURVE
	456				+13.4	90° 20'	+3.8	+17.2	532.6		BS					
365	330		306° 45.8'	-14.3°	8.6	-		-8.6		524.0		+126	-305	1,253,823	784,202	
366	0				5.4	-		-5.4		527.2	TP	0	0	1,253,697	784,507	
367	324		132° 38.8'	-14.3°	6.4	88°	+11.4	+5.0		537.6		-155	+289	1,253,542	784,796	
7	580	579'	130° 16'	-14.3°	6.2	87° 30'	+25.3	+19.1			RD	-254	+521	1,253,443	785,024	4 WAY
7	580	"			4.4	87° 40'	+23.6	+19.2		551.8	RD					4 WAY EL 554
368	650	649'	129° 22.2'	-14.3°	8.4	87° 20'	+30.2	+21.8		534.4	TP	-274-2	+588-1	1,253,421	785,094	
364	650	"			10.3	87° 10'	+32.1	+21.8			TP					CURVE
	456	655'	294° 14.9' - 180	-14.3°	+6.7	93°	+34.3	+41.0	595.4		BS	-113-2	+645-1			
	656	"			+8.6	92° 50'	+32.4	+41.0			BS					
369	330		293° 36'	-14.3°	13.0	91°	-5.8	-18.8		576.6		+53	-326	1,253,359	785,412	
370	0				5.4	-		-5.4		590.0	TP	0	0	1,253,306	785,738	
371	323		82° 5°	-14.3°	5.1	88° 20'	+9.4	+4.3		599.7	TP	+122-2	+299-1	1,253,426	786,836	CURVE
371	323				6.0	88° 10'	+10.3	+4.3			TP					

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
6/11/80		G. LITZINGER		D. MARKS		6834		DM <i>rechecked</i>		1	36			
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
NEW YORK		Granville		ny	Washington					DAVIS				
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									599.7					
	326		244° 5.6' -180	-14.3°	+7.8			+7.8	607.5		BS	+210.2	+249.-1	
	326				+9.4	TH	-1.6	+7.8			BS			
372	0				-5.4			-5.4	602.1		TP	0	0	1,253,634 786,284
373	327		53° 17.3'	-14.3°	8.3			-8.3	599.2		TP	+254.2	+206.-1	1,253,886 786,489
373	327				6.7	BH	-1.6	-8.3			TP			
	328		241° 12.1' -180	-14.3°	+1.5	88° 30'	-8.6	-7.1			BS	+224.-2	+239.-1	
	328				+2.5	88° 20'	-9.5	-7.0	592.2		BS			
374	0				-5.4			-5.4	586.8		TP	0	0	1,254,108 786,727
375	335		42° 24.7'	-14.3°	14.0			-14.0	578.2		TP	+275.-2	+188.-1	1,254,401 786,884
375	335				12.4	BH	1.7	-14.1			TP			
	660		271° 15' -180	-14.3°	10.4			+0.4	578.6		BS	+149.-2	+643.-1	
	660				+3.7	TH	3.3	+0.4			BS			
376	330		271° 15'	-14.3°	1.8			-1.8	576.8			-75	-321	1,254,473 787,205
377	0				5.4			-5.4	573.2		TP	0	0	1,254,548 787,526
TP	180		90° 48.2	-14.3°	6.0			-6.0	572.6		TP	+42	+175.-1	1,254,590 787,700
TP	180				5.1	BH	-0.9	-6.0			TP			
	580				+5.6	88° 30'	-15.2	-9.6			BS			3,245' (stadia)
	580				+7.3	88° 20'	-16.9	-9.6	563.0		BS			offset south
	0				5.4						TP			between 377+378.

horiz. correct Y=-22'  
X=-14'  
1,254,590 + 787,700  
T-intersect.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
6/11/80		O LITZINGER		D MARSH		6834		DM <i>rew</i>		1	37				
AREA		TOPO MAP		STATE		COUNTY		RANGE		PPM		PARTY MANAGER			
NEW YORK		Granville		New York		Washington						RAVIS			
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									563.0						
TP	1145				7.5	-		-7.5		555.5	TP				vertical traverse
TP	1145				1.8	84	-5.7	-7.5			TP				from 377 south
	900				+10.7	87°	-47.0	-36.3			BS				to 378.
	900				+8.1	87°10'	-44.4	-36.3	519.2		BS				
	0				5.4	-		-5.4		513.8	T				
<u>TL</u>	618				8.9	91°	-10.8	-19.7		499.5	TP				T.RD CL 502
<u>TL</u>	618				7.1	91°10'	-12.6	-19.7			TP		1,251,485	786,840	T-intersect. K
	176		278° 43.2' -180	-14.3°	+6.4	94°	+12.2	+19.6			BS	+17	+175-2		
	176				+5.9	94°10'	+12.8	+18.7	518.2		BS				
378	0				5.4	-		-5.4		512.8	T	0	0	1,251,502	787,013
379	330		91° 13.7'	-14.3	11.7	-		-11.7		506.5	TP	+75	+321-2	1,251,577	787,332
379	330				10.0	84	-1.7	-11.7			TP				
	283		276° 9.4' -180	-14.3	+6.0	93°	+14.8	+20.8	527.3		BS	+40	+380-2		
	283				+5.1	93°10'	+15.6	+20.7			BS				
	6				5.4	-		-5.4		521.9	T	0	0	1,251,617	787,610 DRIVEWAY
380	50		152° 35.7'	-14.3	5.5	-		-5.5		521.8		-37	+33	1,251,580	787,643 CROSS COUNTRY
TP	183		159° 59.6'	-14.3	8.8	87°30'	+8.0	-0.8		526.5	TP	-151	+103-2	1,251,464	787,711
TP	183				9.3	87°20'	+8.5	-0.8			TP				
	196		0° 7.9' +180	-14.3°	+6.9	93°	+10.3	+17.2			BS	-190	+48-2		
	196				+6.4	93°10'	+10.8	+17.2	543.7		BS				

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
6/11/80		G LITZINGER		D MARKS		6834		DM new		1		38				
AREA		TOPO MAP		STATE		COUNTY		RANGE		PPM		PARTY MANAGER				
New York		Granville/Wells		New York/Vermont		Washington/Rutland						DAVIS				
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
									543.7						↑	
381	0				5.4	-		-5.4		538.3	TP	0	0	1,251,276	787,757	Granville Quad.
382	330	329'	162° 33.3'	-14.3°	0.6	86°	+23.0	+22.4		566.1	TP	-245	+219-2	1,251,031	787,974	Wells Quad.
382	330	"			1.6	83° 30'	+23.9	+22.3			TP					↓
	330		332° 59' - 190°	-14.3°	+6.8	93°	+17.2	+24.0			BS	-248	+218-2			
	330				+5.9	93° 10'	+18.2	+24.1	590.2		BS					
383	0				5.4	-		-5.4		589.8	TP	0	0	1,250,783	788,190	
TP	200	199'	155° 3.4'	-14.3°	6.6	85°	+17.4	+10.8		601.0	TP	-154-1	+126-2	1,250,628	788,314	
TP	300	"			6.0	85° 10'	+16.8	+10.8			TP					
	130		345° 33' - 190°	-14.3°	+0.8	TH	-0.7	+0.1			BS	-114-1	+63-2			
	130				+0.6	89° 50'	-0.4	+0.2	601.2		BS					
384	0				5.4	-		-5.4		595.8	TP	0	0	1,250,513	788,375	
385	330		167° 46.7'	-14.3°	5.2	91°	-5.8	-11.0		590.2		-295	+147	1,250,218	788,522	
TP	440		167° 47.3'	-14.3°	10.6	91°	-7.7	-18.3		582.9	TP	-394-1	+196-2	1,250,118	788,567	
TP	440				9.3	91° 10'	-9.0	-18.3			TP					
	218		342° 48.8' - 190°	-14.3°	+2.4	91°	+3.8	+6.2	599.1		BS	-186-1	+114-2			
	218				+1.8	91° 10'	+4.4	+6.2			BS					
386	0				5.4	-		-5.4		583.7	TP	0	0	1,249,931	788,681	POWER LINE
TP	168	167'	174° 12.8	-14.3°	5.3	85°	+14.6	+9.3		598.4	TP	-157-1	+57-2	1,249,773	788,736	
TP	168	"			4.9	85° 10'	+14.1	+9.2			TP					

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6/11/80		G. LITZINGER		D. MARSH		6894		DM <i>new</i>		/		39			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
New York		Wells		Vermont		Rutland								DAVIS	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
										598.4					
	166		332° 44.7' -146°	-14.3°	+4.2	94°	+11.6	+15.87	614.2		BS	-124-1	+110-2		CURVE
	166				+3.7	94° 10'	+12.0	+15.75			BS				
387	0				5.4	-		-5.4		608.8	TP	0	0	1,249,698	788,844
TP	155		170° 1.8'	-14.3°	9.0	86°	+10.8	+1.87		616.0	TP	-141-1	+64-2	1,249,506	788,906
TP	155				8.6	86° 10'	+10.3	+1.75			TP				
	175		3° 46' +180°	-14.3°	+7.7	-		+7.77	623.7		BS	-172-1	+32-2		
	175				+6.8	84	+0.9	+7.75			BS				
388	0				5.4	-		-5.4		618.3	TP	0	0	1,249,333	788,936
389	322		156° 52.7'	-14.0°	12.4	89°	+5.6	-6.87		616.9	TP	-257-1	+194-2	1,249,075	789,128
389	322				13.4	88° 30'	+6.6	-6.85			TP				
	274		336° 9.6' -190°	-14.0°	+2.3	88° 30'	-7.2	-4.97			BS	-216-1	+168-2		
	274				+1.5	88° 10'	-6.4	-4.95	612.0		BS				
TP	0				5.4	-		-5.4		606.6	TP	0	0	1,248,858	789,294
390	61		188° 5.4'	-14.0°	8.5	-		-8.5		603.5		-61	+6	1,248,797	789,300
391	392		188° 5.4'	-14.0°	8.2	89°	+6.8	-1.47			TP	-390-1	+40-2	1,248,467	789,332
391	392				7.0	89° 10'	+5.7	-1.35		610.7	TP				CURVE
	232		26° 30.1' +180°	-14.0°	+4.1	87°	-12.1	-8.07			BS	-226-1	-50-2		
	232				+4.8	96° 50'	-12.8	-8.05	602.7		BS				
TP	0				5.4	-		-5.4		597.3	TP	0	0	1,248,240	789,280
392	97		199° 1.5'	-14.0°	10.9	-		-10.9				-97	-8	1,248,143	789,272

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6/11/80		GLITZINGER		D. MANN		6834		awc, vlew		1		40			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
New York		Wells		Vermont		Rutland								DAVIS	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									682.7						
393	428	427'	199° 16'	-14.0°	14.5	93.20	-24.8	-39.32		563.4	TP	-426-1	-32-2	1,247,813	789,246
393	428	"			13.2	93° 30'	-26.1	-39.3			TP				
	330	328'	12° 6.2' +180°	-14.0°	+12.1	84° -	-34.3	-22.27			BS	-328-1	+11-2		
	330	"			+11.2	84° 10'	-33.4	-22.25	546.2		BS				
394	0				5.4	-		-5.4		535.8	T	0	0	1,247,484	789,255
TP	148		195° 39.5'	-14.0°	9.2	-		-9.27		538.0	TP	-148-1	-4-2	1,247,335	789,249
TP	148				9.9	TH	+0.7	-9.25			TP				
	182	181'	5° 0.2' +150	-14.0°	+7.9	84° -	-18.9	-11.07			BS	-179-1	+28-2		
	182	"			+7.4	84° 10'	18.4	-11.05	521.0		BS				
395	0				5.4	-		-5.4		515.6	T	0	0	1,247,155	789,275
TP	177	175'	129° 23.1'	-14.0°	12.3	98° -	-24.4	-36.77		484.3	TP	-75-1	+158-2	1,247,079	789,431
TP	177	"			11.8	98° 10'	-24.9	-36.75			TP				
	114		281° 16.9 -180	-14.0°	+1.3	85° -	-9.9	-9.67			BS	+5-1	+114-2		
	114				+1.0	85° 10'	-9.6	-8.65	478.7		BS				
396	0				5.4	-		-5.4		470.3	T	0	0	1,247,083	789,543
TP	168	167'	95° 12.6'	-14.0°	-5.3	95° -	-14.6	-19.97		455.8	TP	+26-1	+165-2	1,247,108	789,706
TP	168	"			4.9	95° 10'	-16.1	-20.05			TP				
	164		271° 2.5' -180	-14.0°	+2.2	88° 30'	-4.3	-2.17	453.7		BS	+37-1	+160-2		
	164				+3.6	88° -	-5.7	-2.15	1,247		BS				
397	0				5.4	-		-5.4		448.3	T	0	0	1,247,144	789,864

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
6/11/80		G. LITZINGER		D. MARKS		6834		Gmc		1		41				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
New York		Wells		VERMONT		Rutland								DAVIS		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
									453.7							
398	330		95° 12.8'	-14.0	10.7	92°	-11.5	-22.2		431.5	TP	+50-1	+326-2	1,247,193	790,188	BRUSH
398	330				9.7	92° 10'	-12.5	-22.2			TP					last sta. in woods
	138		277° 12.9' - 180°	-14.0	+1.0	-	-	+1.0			BS	+16-1	+137-2			
	138				+1.7	TH	-0.7	+1.0	432.5		BS					
π	0				5.4	-	-	-5.4		427.1	π	0	0	1,247,208	790,323	
TP	75		102° 19.1'	-14.0	1.3	88°	+2.6	+1.3		433.8	TP	+2-1	+75-2	1,247,209	790,396	
TP	75				1.6	87° 50'	+2.8	+1.2			TP					
	114		271° 19.7' - 180°	-14.0	+11.4	-	-	+11.4	445.2		BS	+25-1	+113-1			horiz. correct, y = -24' x = -61'
	114				+10.8	BH	+0.6	+11.4			BS					
π	69		316° 31.5'	-14.0	7.5	-	-	-7.5		437.7		+37	-58	1,247,270	790,450	1,247,270 + 790,450 = intersect.
399	0				5.4	-	-	-5.4		439.8	π	0	0	1,247,233	790,508	dirt road.
400	330		103° 47.6'	-14.3	2.1	89°	+5.8	+3.7		448.9	TP	+3+1	+330+1	1,247,237	790,839	↓
400	330				1.1	89° 10'	+4.8	+3.7			TP					
	330		268° 5.8' - 180°	-14.3°	+10.1	91°	+5.8	+15.9	464.8		BS	+91+1	+317+1			
	330				+9.2	91 10	+6.7	+15.9			BS					
401	0				-5.4	-	-	-5.4		459.4	π	0	0	1,247,329	791,157	TOP SIDE RD
402	330		99° 2.1'	-14.3°	-7.6	86° 30'	+20.1	+12.5		477.3		+28	+329	1,247,357	791,486	
TP	190	2.45 x 2.00	99° 30.1'	-14.3°	-10.5	86 40	+25.4	+17.9		482.7	TP	+41+1	+487+1	1,247,371	791,645	
TP	490	"			-10.0	86 44	+27.9	+17.9			TP					

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
6.12.80		D.Marks		G.Litzinger		6102		GWL. <i>also</i>		1	42			
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
New York		Wells		VERMONT	Rutland					DAVIS				
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
TP 402 1/2										482.7				
0	184	183'	345°24'-180	-14.3°	6.0	95°	+16.0	+26.9	509.6		BS	-160+1	+89+1	
	184	"			10.3	95°10'	+16.5	+26.8			BS			
402	0				5.4	-	-	-5.4		504.2	X	0	0	1,247,212 791,735 X AT QUINCY
TP	160	159'	74°15.3'	-14.3°	5.3	85°	+13.9	+8.6		518.2	TP	-149+1	+54	1,247,064 791,789
TP	160	"			4.9	85°10'	+13.4	+8.5			TP			
	167		332°09'-180	-14.3°	11.6	L	-	+11.6	529.8		BS	-124+1	+112+1	
	167				12.4	H	-0.8	+11.6			BS			
404	0				5.4	-	-	-5.4		524.4	X	0	0	1,246,941 791,902
405	327		164°20.2'	-14.3°	8.0	88°	+11.4	+3.0		532.8	TP	-283+1	+163+1	1,246,659 792,066
405	327				7.5	88°10'	+10.5	+3.0			TP			
	330		333°58'-180	-14.3°	6.2	87°	-17.2	-11.0	521.8		BS	-252+1	+214+1	
	330				5.7	87°10'	-16.3	-11.1			BS			
406	0				5.4	-	-	-5.4		516.4	X	0	0	1,246,908 792,281
407	330		119°22.5'	-14.3°	3.1	L	-	-3.1		518.7	TP	-236+1	+231+1	1,246,173 792,513
407	330				1.5	H	-1.7	-3.2			TP			
	232		288°38.6'-180	-14.3°	4.8	87°	-12.1	-7.3	511.4		BS	-18+1	+231+1	
	232				4.1	87°10'	-11.5	-7.4			BS	X 0	0	1,246,156 792,745 COORDINATES FOR INSTRUMENT LOCATION
408	68'		84°45'	-14.3°	13.3	L	-	-13.3		499.1		+23	+64	1,246,179 792,809
409	429	428'	74°58.3'	-14.3°	3.8	93°30'	-26.1	-29.9		481.5	TP	+210+1	+373+1	1,246,367 793,119
409	429	"			2.6	93°40'	-27.4	-30.0			TP			

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
6/12/80		D Marks		G. Litzinger		6834		GWC <i>new</i>		1	43				
AREA		TOPO MAP		STATE		COUNTY		RANGE		PPM		PARTY MANAGER			
New York		Wells		Vermont		Rutland						DAVIS			
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
409										481.5					
	136		250°20'130	-14.3°	+1.7	L		+1.7	483.2		BS	+57+1	+123+1		T AT RD INT
	136				+2.4	TH	-0.7	+1.7			BS				
FF	0				-5.1			-5.4		477.8	X	0	0	1,246,425	793,243 T-intersect
410	250		175°32'1'	-14.3°	-11.5	93	-13.1	-24.4		458.6	TD	-237+1	+80	1,246,189	793,323
410	250				-10.8	93 16	-13.8	-24.6			TD				
	643		230°23'20	-14.3°	+2.4	89	-11.2	-7.8			BS	-24+1	+643+1		
	643				+5.3	88 50	-13.1	-7.8	450.8		BS				
411	330		75°10'3'	-14.3°	-10.1	89	+5.8	-4.3		446.5		-19	-329	1,246,147	793,638
412	0				-5.4			-5.4		445.4	X	0	0	1,246,166	793,967 X OPPOSITE
413	330		64°39'	-14.3°	-5.0	L		-5.9		444.9		-2	+330	1,246,164	794,297
TP	36		105°6.7'	-14.3°	-2.1	L		-2.1		448.7	TD	-8+1	+561+1	1,246,159	794,529 WT CORNER
TP	361				-4.9	TH	+2.8	-2.1			TP				
	138		328°24'20	-14.3°	+2.4	L		+9.4	458.1		BS	-305+2	+314+1		
	138				+7.2	BH	+2.2	+9.4			BS				
414	330		329°29'	-14.3°	-7.8	L		-7.8		450.3		+235	-232	1,246,091	794,612
415	0				-5.9			-5.4		452.7	X	0	0	1,245,856	794,844
FF	166		45°51.3'	-14.3°	-2.4	L		-2.4		455.7		-110	+124	1,245,796	794,968 1,245,750 + 794,960 T-intersect, pt. 456
416	241		112°11'	-14.6°	-2.2	L		-2.2		455.9	TD	-32+1	+239+1	1,245,825	795,084
416	241				-3.4	TH	+1.2	-2.2			TD				

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE		
6/12/80		D. Marks		G. Litzinger		6834		G.W.C. <i>slw</i>		1		44		
AREA		TOPO MAP		STATE		COUNTY		RANGE		PPM		PARTY MANAGER		
New York		Wells		Vermont		Rutland						DAVIS		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
416										455.9				
50	1320		247°40' -180	-14.6° +12.1	L		+12.1	468.0			BS	+793+1	+1055+1	
	1320				+5.5	BH	+6.6				BS			
17	990		248°7'	-14.6° -12.0	L		-12.0		456.0			-589	-796	1,246,030 795,344
418	660		248°34'	-14.6° -10.6	L		-10.6		457.4			-388	-534	1,246,231 795,606
419	330		247°43'	-14.6° -7.1	L		-7.1		460.9			-198	-264	1,246,421 795,876
420	0				-5.4	--	-5.4		462.6	X		0	0	1,246,619 796,140
421	330		81°36'	-14.6° -2.5	L		-2.5		465.5			+129	+304	1,246,798 796,444
422	660		82°53'	-14.6° -11.4	89°	+11.5	+0.1		468.1			+244	+613	1,246,863 796,753
423	989		85°58.7'	-14.6° -14.6	89	+17.3	+2.7		470.7	TP		+316+2	+937+1	1,246,937 797,078
423	989				-11.7	89 10	+14.4	+2.7			TP			
	1650		275°43' -20	-14.6° +10.0	90 30	+14.4	+24.4				BS	+252+1	+1631+1	
	1650				+5.3	90 40	+19.2	+24.5	495.2		BS			
424	1320		275°22'	-14.6° -14.8	BH	-6.6	-21.4		473.8			-199	-1305	1,246,991 797,405
425	990		275°42'	-14.6° -12.5	BH	-5.0	-17.5		477.7			-153	-978	1,247,037 797,732
426	660		275°3'	-14.6° -11.1	BH	-3.3	-14.4		480.8			-109	-651	1,247,081 798,059
427	330		273°37'	-14.6° -11.3	L		-11.3		483.9			-63	-324	1,247,127 798,386
428	0				-2.4	--	-5.4		489.8	X		0	0	1,247,190 798,710 OFF SIDE
429	330		103°55'	-14.6° -1.4	L		-1.4		493.8			+4	+330	1,247,194 799,040
430	660		104°1'	-14.6° -1.7	TP	+3.3	+1.6		496.8			+7	+660	1,247,197 799,370

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE		
8-2-00		D Marks		G. Litzinger		683A		G.W.C. New		1		45		
AREA		TOPO MAP		STATE		COUNTY		RANGE		PPM		PARTY MANAGER		
New York		Wells		VT		Rutland						LD		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									495.2					
431	992		104°49.1'	-14.6°	10.7	89°	+17.3	+7.0		502.2	TP	-4+2	+992+1	1,247,188 799,703
431	992						+11.5	+7.0			TP			
	600		302°34.3'	-14.6°	13.9	L		+13.9	516.1		BS	-92+2	+659+2	horiz. correct. y=+26' x=+21'
	212				10.6	BS	+3.3	+13.9			BS			
432	586		293°03'	-14.6°	11.6	L		-12.5		503.6		+87	-579	1,247,185 799,780 4-Way Intersect.
432	330		293°53'	-14.6°	9.3	L		-9.3		506.8		+54	-326	1,247,150 800,033
433	0				5.4			-5.4		510.7	X	0	0	1,247,098 800,359
434	330		121°4.2'	-14.6°	0.1	L		-0.1		516.0		-91	+317	1,247,007 800,676
435	600		121°7'	-14.6°	7.7	89°	+11.5	+3.8		519.9		-188	+633	1,246,910 800,992
436	992		121°43.1'	-14.3°	6.9	89°	+17.3	+10.4		526.5	TP	-297	+997-2	1,246,801 801,304
436	493				4.0	89°	+14.4	+10.4			TP			
	731		321°48.7'	-14.3°	11.0	L		+11.0	537.5		BS	-202	+263-2	
	331				12.6	TP	-1.7	+10.9			BS			
437	0				5.4			-5.4		532.1	X	0	0	1,246,591 801,565
437	298		127°46.9'	-14.3°	5.7	88°30'	+7.5	+2.3		539.8	X	-198	+209	1,246,401 801,774 USGS 1127 30F1942 BL 511
438	330		123°5.0'	-14.3°	8.7	88°30'	+8.6	-0.1		537.4		-251	+214	1,246,348 801,779
439	657		151°10'	-14.3°	10.7	88°20'	+17.2	+6.5		544.0	TP	-479	+449-2	1,246,120 802,012
439	657				8.8	88°10'	+15.3	+6.5			TP			
	330		319°14.0'	-14.3°	12.8	88°	+17.2	+25.0	569.0		BS	-191	+269-2	
	330				16.8	88°10'	+18.2	+25.0			BS			

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY			LINE NO.	PAGE							
6/13/80		D. MARKS		G. LITZINGER		6834		G.W.C. <i>rlw</i>			1	46							
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER									
NEW YORK		WELLS		VER MONT	ROTLAND					DAVIS									
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS	
												LAT.	DEP.	Y	X				
									569.0										
326	131		321°18.3'	-14.3°	13.9	84	-0.7	-14.6		554.4	KA	+78	-105	1,246,007	802,174			Y-intersect.	
327	0							-5.4		563.6	TA	0	0	1,245,929	802,279				
328	323		113°10'	-14.3°		87.2	+16.9	+9.22		578.2	TP	-49	+319-2	1,245,880	802,596				
329	323					87.2	+15.9	+9.15			TP								
330	324		215°27.80	-14.3°	+11.0	90.20	+5.8	+16.82	595.0		ES	+105	+651-2						
331	324					90.20	+7.7	+16.85			ES								
332	330		273°24'	-14.3°	8.8			-8.8		586.2		-62	-324	1,245,923	802,921				
333	0							-5.4		589.6	TA	0	0	1,245,985	803,245				
334	331		85°31.2'	-14.3°		92.0	-11.6	-13.52		591.5	TP	+107	+316-2	1,246,092	803,559				
335	334					92.0	-12.6	-13.55			TP								
336	331		240°26.5' 190	-14.3°	+6.6			+6.62	588.1		ES	-38	+333-2						
337	335					92.0	+1.7	+6.65			ES								
338	0							-5.4		582.7	TA	0	0	1,246,054	803,890				
339	350		116°22'	-14.3°	-0.5	75	+1.7	+1.2		589.3		-124	+306	1,245,930	804,196				
340	360		121°15'	-14.3°	-1.8	88	+2.30	+9.22		596.3	TP	-265	+604-2	1,245,789	804,492				
341	350					88	+2.11	+8.25			TP								
342	320		225°28' 180	-14.3°	+6.9	92	+17.0	+23.92	620.2		ES	-7	+325-2						
343	320					92	+17.9	+23.95			ES								
438	0							-5.4		614.8	TA	0	0	1,245,782	804,815				

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO		PAGE			
6/13/80		D. Marks		G. J. Zinger		6920		G.W.C. New		1		47			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
New York		Wells		VT		Rutland								LD	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH+ SOUTH - LAT.	EAST+ WEST - DEP.		Y
									620.2						
449	330		89°30'	-14.3°	3.4	87°20'	+15.3	+11.9			TP	+85	+319-2	1,245,867	805,132
449	330						+14.4	+12.0		632.2	TP				
	660	659'	269°32.7'-180°	-14.3°	+3.1	92°30'	+28.8	+31.9	664.1		BS	+168	+637-2		
	660				+8.8	92°-	+23.0	+31.8			BS				
450	330		269°32.7'	-14.3°	11.3	92°-	-11.5	-22.8		641.3		-84	-319	1,245,951	805,448
451	0				5.4	-		-5.4		658.7	TP	0	0	1,246,035	805,767
452	333		83°38.5'	-14.3°	2.0	89°-	+5.8	+3.8		667.9	TP	+117-2	+312-2	1,246,150	806,077
452	333				1.0	89°10'	+4.8	+3.8			TP				
	330		286°30'-180°	-14.3°	+7.7	88°-	-11.5	-3.8	664.1		BS	-13-2	+330-1		
	330				+4.8	88°30'	-8.6	-3.8			BS				
453	0				5.4	-		-5.4		658.7	TP	0	0	1,246,135	806,406
454	330		120°26'	-14.3°	12.5	-		-12.5		651.6		-92	+317	1,246,043	805,723
455	658		118°3'	-14.3°	8.6	-		-8.6		655.5	TP	-156-2	+639	1,245,977	807,045
455	658				11.9	TH	+3.3	-8.6			TP				
	190		288°40'-180°	-14.3°	+11.2	90°40'	+2.2	+13.4	668.9		BS	-14-2	+189		
	190				+10.1	91°-	+3.3	+13.4			BS				
π	0				5.4	-		-5.4		663.5	TP	0	0	1,245,961	807,234
456	138		119°50'	-14.3°	1.3	88°-	+4.8	+3.5		672.4		-37	+133	1,245,924	807,367
457	468		119°50'	-14.3°	3.3	87°30'	+20.4	+17.1		686.0	TP	-125-2	+451	1,246,834	807,685
457	468				4.7	87°20'	+21.7	+17.0			TP				

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
6/13/80		G. Cotcamp		D Marks		6834		Guc. also		1	48					
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER						
New York		Wells		Vermont	Rutland					L. Davis						
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
457	657		264°58'-180°	-14.3°	+64	91°-	+11.5	+17.9	703.9	686.0	BS	+218-2	+620			
	657				+44	91°10'	+13.4	+17.8			BS					
458	330		263°13'	-14.3°	11.2	-		-11.2		692.7		-119	-308	1,245,931	807,997	
459	0				5.4	-		-5.4		698.5	TP	0	0	1,246,050	808,305	TP opposite sta.
460	332		106°20.6'	-14.3°	6.3	89°-	+5.8	-0.5			TP	-12-2	+332	1,246,036	808,637	
460	332				4.3	89°20'	+3.9	-0.4		703.5	TP					
	660		290°25.3'-180°	-14.3°	+140	BH	+3.3	+17.3			BS	-70-2	+656			
	660				+59	91°-	+11.5	+17.4	720.9		BS					
461	330		<sup>290°</sup> 209°25.3'	-14.3°	12.1	BH	-1.7	-13.8		707.1		+35	-328	1,245,999	808,965	
462	0				5.4	-		-5.4		715.5	TP	0	0	1,245,964	809,293	
463	330		108°3'	-14.3°	5.8	88°-	+11.5	+5.7		726.6		-22	+329	1,245,942	809,622	
TP	587		108°23.8'	-14.3°	2.7	88°-	+20.5	+17.8		738.7	TP	-42-2	+586	1,245,920	809,879	split sta. - curve
TP	587				6.1	87°40'	+23.9	+17.8			TP					
	728		317°5.8'-180°	-14.3°	+11.2	-		+11.2	749.9		BS	-394-2	+612			
	728				+7.6	BH	+3.6	+11.2			BS					
<u>IL</u>	724		316°22.7'	-14.3°	5.3	90°30'	-6.3	-11.6		738.3		+384	-613	1,245,908	809,878	1,245,930 + 809,875 T-rd (north) EL 739
464	660		317°5.8'	-14.3°	10.2	-		-10.2		737.7		+357	-655	1,245,881	809,936	
465	330		312°37'	-14.3°	8.5	-		-8.5		741.4		+157	-291	1,245,681	810,200	
466	0				5.4	-		-5.4		744.5	TP	0	0	1,245,524	810,491	

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO	PAGE						
6/13/80		G Cotcamp		D MARKS		6834		BLL <i>rdw</i>		1	49						
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
NEW York		WELLS		VERMONT	RUTLAND					Davis							
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS	
												LAT.	DEP.	Y	X		
									749.9								
467	335		119°25'	-14.3°	0.8	TH	+1.7	+0.9		750.8	TP	-87-3	+323	1245,434	810,814	T.P. opposite sta.	
467	335				5.0	89°	+5.8	+0.8			TP						
	980		336° 12.8' -180°	-14.3°	+4.3	91°30'	+26.6	+29.9			BS	-771-3	+605			CURVE	
	980				+7.2	91°20'	+22.8	+30.0	780.8		BS						
468	656		336° 48.7'	-14.3°	10.0	91°30'	-17.2	-27.2		753.6		+520	-400	1245,180	811,019		
469	328		330° 40.8'	-14.3°	10.4	91°30'	-8.6	-19.0		761.8		+237	-226	1244,897	811,193		
470	0				5.4	-		-5.4		775.4	TP	0	0	1244,660	811,419		
471	323		112° 34.9'	-14.3°	1.0	-		-1.0		779.8	TP	-47-3	+320	1244,610	811,739	CURVE	
471	323				2.6	TH	+1.6	-1.0			TP						
	658		333° 17.4' -180°	-14.3°	7.1	90°10'	+1.9	+13.8	793.6		BS	+12-3	+658				
	658				+6.1	90°40'	+7.7	+13.8			BS						
472	330		288° 29'	-14.3°	9.5	-		-9.5		784.1		+7	-330	1244,626	812,067		
473	0				6.4	-		-5.4		788.2	TP	0	0	1244,619	812,397		
474	330		113° 11.6'	-14.3°	1.2	TH	+1.7	+0.5		794.1		-51	+326	1244,568	812,723		
475	660		113° 11.6'	-14.3°	2.5	88°30'	+17.3	+14.8		808.4		-102	+652	1244,517	813,049		
476	980		110° 8.9'	-14.3°	6.0	88°10'	+31.3	+25.3		818.9	TP	-100-1	+975	1244,518	813,372	CURVE	
476	980				8.9	88°	+34.2	+25.3			TP						
	660		268° 18' -180	-14.3°	+2.5	-		+2.5			BS	+182-	+634				
	660				+5.8	TH	-3.3	+2.5	821.4		BS						
477	330		268° 18'	-14.3°	3.4	-						-91	-317	1244,609	813,689		

**SURVEY NOTES-HIGH RESOLUTION DATA**

GEO-445

**Geosource Inc.**

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY			LINE NO.		PAGE		
6/17/80		G. LITZINGER		G. Cotcamp		6834		GHL			1		50		
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
NEW YORK		WELLS		VERMONT		RUTLAND								DAVIS	
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									821.4						horiz. correct, y = -38, x = -27
478	0				5.4	-		-5.4		816.0	T	0	0	1244,700	814,006
														332,260	326,826
1F	113		21° 0.4'	-14.3°	3.3	-		-3.3		818.1		+45	+104	1244,748	814,110
														332,305	326,930
															1244,745 + 814,110
479	295		139° 52.7'	-14.0°	13.2	89°-	+5.1	-8.1		813.3		-173	+239	332,087	327,065
															DIRT ROAD
TP	430		144° 21.3'	-14.0°	8.5	89°-	+7.5	-1.0			TP	-278	+328	331,982	327,154
TP	430				7.2	89°10'	+6.3	-0.9		820.5	TP				grid change at T-rd (N.Y. to Vermont)
	187		350° 38.9' -180°	-14.0°	+13.0	-		+13.0			BS	-172	+74		
	187				+12.1	84	+0.9	+13.0	833.5		BS				
480	0				5.4	-		-5.4		828.1	T	0	0	331,810	327,228
481	330		187° 0.2'	-14.0°	0.9	-		-0.9			TP	-264	+199	331,546	327,427
481	330				2.5	TH	+1.7	-0.8		832.7	TP				
	476		317° 44' -180	-14.0°	+3.5	-		+3.5	836.2		BS	-264	+395+1		
	475				+5.9	TH	-2.4	+3.5			BS				
482	145		317° 49'	-14.0°	8.9	-		-8.9		827.3		+81	-121	331,363	327,702
Y	0				5.4	-		-5.4		830.8	T	0	0	331,282	327,923
															331,320 + 327,805
483	183		97° 17.7'	-14.0°	1.7	-		-1.7		834.5		+21	+182	331,303	328,005
484	513		" "	"	0.9	89°-	+9.0	+8.1		844.3		+60	+509	331,342	328,332
486	843		97° 17.7'	-14.0°	7.2	88°30'	+22.1	+14.9		857.0	TP	+98-2	+837+1	331,378	328,661
485	843				4.9	88°40'	+19.6	+14.7	+14.6		TP				
	330		280° 51.4' -180	-14.0°	+8.5	-		+7.5	858.5		BS	+18-4	+330+1		
	330				+9.1	TH	-1.7	+7.4			BS				

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY			LINE NO.		PAGE		
6/17/80		G. LITZINGER		G. Cotcamp		6834		GHL			1		51		
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
NEW YORK		WELLS		VERMONT		RUTLAND								DAVIS	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									858.5						
486	0				5.4	-		-5.4		853.1	TP	0	0	331,392	328,992
487	325		83° 50.6'	-13.7°	4.7	89°	+5.7	+1.0		857.5	TP	+110.4	+306.1	331,498	329,299
487	325				3.8	89° 10'	+4.7	+0.9			TP				
	440		256° 21.9' -190°	-13.7°	78.3	91° 40'	+12.8	+21.1	880.6		BS	+202.4	+391.1		
	440				+7.0	91° 50'	14.1	+21.1			BS				
488	110		256° 21.9'	-13.7°	9.0	-		-9.0		871.6		-51	-98	331,645	329,593
π	0				5.4	-		-5.4		875.2	TP	0	0	331,696	329,691
489	230		117° 08'	-13.7°	3.7	89°	+8.0	+4.3		884.9		-53	+224	331,643	329,915
490	560		117° 0.8'	-13.7°	3.9	89°	+19.5	+15.6			TP	-129.4	+545.1	331,563	330,237
490	560				2.2	89° 10'	+17.9	+15.7		896.3	TP				
	327		284° 43.0' -180°	-13.7°	+6.2	89°	-5.7	+0.5			BS	-6.4	+327.1		CURVE
	327				+5.3	89° 10'	-4.8	+0.5	896.8		BS				
491	0				5.4	-		-5.4		891.4	TP	0	0	331,553	330,565
492	330		91° 37.2'	-13.7°	8.5	-		-8.5		888.3		+69	+323	331,622	330,888
493	660		91° 37.2'	-13.7°	10.3	-		-10.3		886.5	TP	+138.4	+645.1	331,687	331,211
493	660				7.0	8H	-3.3	-10.3			TP				
	330		261° 18.1' -180	-13.7°	+1.8	-		+1.8	888.3		BS	+126.4	+305.1		
	330				+3.4	7H	1.7	+1.7			BS				
494	0				5.4	-		-5.4		882.9	TP	0	0	331,809	331,517

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6/17/80		G. LITZINGER		G. Cotcamp		6834		GHL		1		52			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
NEW YORK		WELLS/Middletown		VERMONT		RUTLAND								DAVIS	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									888.3						
495	330		80° 51.5'	-13.5°	2.1	88° 40'	+7.7	+5.6		893.9	TP	+127-4	+305+1	331,932	331,823
495	330				3.0	88° 30'	+8.6	+5.6			TP				
	660		267° 46.9' -180	-13.5°	+10.6	-		+10.6	904.5		BS	+179-4	+635+1		
	660				+13.8	TH	-3.3	+10.5			BS				
496	330		267° 46.8'	-13.5°	0.6	-		-0.6		903.9		-89	-318	332,018	332,141
497	0				5.4	-		-5.4		899.1	TP	0	0	332,107	332,459
498	330		79° 0.1'	-13.5°	5.6	-		-5.6			TP	+137-4	+300+1	332,240	332,760
498	330				7.2	TH	-1.7	-5.5		899.0	TP				
	377		269° 19.3' -180	-13.5°	+7.1	90° 30'	+3.3	+10.4			BS	+92-4	+366+1		
	377				+6.7	90° 40'	+4.4	+10.5	909.5		BS				
499	47		269° 19.3'	-13.5°	4.6	-		-4.6		904.9		-72	-46	332,316	333,081
	0				5.4	-		-5.4		904.1	TP	0	0	332,328	333,127
500	288		119° 30'	-13.5°	1.0	-		-1.0		908.5	TP	-75-4	+278+1	332,249	333,406
500	288				2.4	TH	+1.4	-1.0			TP				
	328		311° 0.5' -180°	-13.5°	+11.0	91°	+5.7	+16.7	925.2		BS	-151-4	+291+1		CURVE
	328				+10.0	91° 10'	+6.7	+16.7			BS				
501	0				5.4	-		-5.4		919.8	TP	0	0	332,094	333,698
502	330		109° 46'	-13.5°	11.2	88° 30'	+8.6	-2.6			TP	-36-4	+328+1	332,054	334,027
502	330				10.2	86° 40'	7.7	-2.5		922.7	TP				

↑  
Wells Quad.  
↓  
Middletown Springs Quad.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
6/17/80		G. LITZINGER		G. Cotcamp		6834		GHL		1	53					
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER						
NEW YORK		WELLS		VERMONT	RUTLAND					DIVIS						
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH +	EAST +	COORDINATES		REMARKS
												SOUTH -	WEST -	Y	X	
												LAT.	DEP.			
502										922.7						
	330		275° 49.4' - 180°	-13.5°	+2.2	-		+2.27	924.9		BS	+44.4	+327.1			
	330				+3.8	TH	-1.7	+2.17			BS					
503	0				5.4	-		-5.4		919.5	TP	0	0	332,094	334,355	
TP	205		71° 51.6'	-13.5°	2.0	-		-2.07		922.9	TP	+108.4	+175.1	332,198	334,531	
TP	205				3.0	TH	+1.0	-2.07			TP					
	455		279° 47.1' - 180°	-13.5°	+7.3	90° 20'	+2.6	+9.97			BS	+29.4	+454.1			
	455				+6.0	90° 30'	+4.0	+10.07	932.9		BS					
504	330		279° 47.1'	-13.5°	7.6	-		-7.6		925.3		-21	-329	332,202	334,657	
505	0				5.4	-		-5.4		927.5	TP	0	0	332,223	334,986	
TP	173		80° 56.3'	-13.5°	2.4	89° -	+3.0	+0.67		933.5	TP	+66.4	+160.1	332,285	335,147	
TP	173				1.9	89° 10'	+2.5	+0.67			TP					
	483		236° 36' - 140°	-13.5°	+6.5	91° -	+8.4	+14.97	948.7		BS	+353.4	+330.1			
	483				+5.1	91° 10'	+9.8	+14.97			BS					
506	330		236° 36'	-13.5°	11.3	-		-11.3		937.1		-241	-225	332,393	335,253	horiz. correct. = Y = -82'
507	0				5.4	-		-5.4		943.0	TP	0	0	332,634	335,478	OPP STATION X = +21'
TP	280		65° 59.4'	-13.5°	1.5	88° 30'	+7.3	+5.87		954.2	TP	+170.4	+222	332,800	335,700	332,800 + 335,700
TP	280				2.3	88° 20'	+8.1	+5.87			TP					T-INT CL. 956