

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc. Client-COCORP

DATE 1-22-80	INSTRUMENT MAN G. Cotcamp	ROD MAN G. Litzinger	PARTY NUMBER 6834	NOTES CHECKED BY GHL	LINE NO. 6	PAGE 1 OF 31
AREA GEORGIA	TOPO MAP White Plains 7 1/2	STATE GEORGIA	COUNTY Taliaferro/Hancock	RANGE	PPM	PARTY MANAGER 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	NORTH + SOUTH - LAT.	EAST + WEST - DEP.	COORDINATES		REMARKS
														Y	X	
				-0°12'						678.0				1,262,800	242,570	Instrument - Wild TIA chaining - 330' steel cable + steel arrows
	2805		315°11'	-180°	+54	-		+5.4	683.4		BS	-1997	+1970-4			4-Way Intersect. el. 678.
	2805			+7.2°	+137	89°50'	-8.2	+5.5			BS					
1	2640		315°34'		86	-		-8.6		674.8		+1892	-1842	1,262,695	242,694	paved road - county
2	2310		" "	"	53	04	-11.6	-16.9		666.5		+1655	-1611	1,262,458	242,925	line
3	1980		" "	"	89	90°30'	-17.3	-26.2		657.2		+1419	-1381	1,262,322	243,155	
4	1650		" "	"	30	91°-	-28.8	-31.8		651.6		+1182	-1151	1,261,985	243,385	
5	1320		" "	"	87	91°-	-23.0	-31.7		651.7		+946	-921	1,261,749	243,615	
6	990		" "	"	128	91°-	-17.3	-30.1		653.3		+709	-691	1,261,512	243,845	
7	660		" "	"	49	92°-	-23.0	-27.9		655.5		+473	-460	1,261,276	244,076	
8	330		" "	"	14.2	91°-	-5.8	-20.0		663.4		+236	-230	1,261,039	244,306	
9	0				54	-		-5.4		678.0	TP	0	0	1,260,803	244,536	
10	330		139°21'	+7.2°	2.3	-		-2.3		681.1		-232	+235	1,260,571	244,771	
11	660		" "	"	10.4	-		-10.4		673.0		-463	+470	1,260,340	245,006	
12	990		" "	"	10.4	-		-10.4		673.0		-695	+706	1,260,108	245,242	
13	1320		" "	"	59	-		-5.9		677.5		-926	+941	1,259,877	245,477	↑
14	1650		" "	"	48	-		-4.8		678.6		-1158	+1176	1,259,645	245,712	White Plains Quad
15	1980		133°43.1'	+7.2°	6.7	-		-6.7			TP	-1373	+1426-4	1,259,410	245,958	Sparta NW Quad
15	1980				4.3	90°4'	-2.3	-6.6		676.8	TP					↓
	990		306°46.3'	-180°	+11.2	-		+11.2	688.0		BS	-595	+791-4			
	990				+6.2	04	+5.0	+11.2			BS					

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
1/22/80		G. Cotcamp		G. Litzinger		6834		GHL rlw		6	2					
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER					
Georgia		Sparta NW		Georgia		Hancock					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
									688.0							
TT	865		307°25'	+2°	10.0	BH	-4.3	-14.3		673.7		+528'	-685'	1259,363	246,060	1,259,345 + 246,065 T-rd (south)
16	660		" "	"	14.3	BH	-3.3	-17.6		670.4		+403'	-523'	1259,238	246,222	
17	330		310°5'	+2°	13.4	-		-13.4		674.6		+213'	-252'	1259,048	246,493	
18	0				5.4	-		-5.4		682.6	X	0	0	1258,835	246,745	
W	265		136°45'	+2°	2.5	89°-	+4.6	+2.1		690.1		-194'	+181'	1258,641	246,926	1,258,615 + 246,905 T-rd (northeast) c. 690.
19	330		140°34.7'	+2°	3.1	89°-	+5.8	+2.7		690.7		-256'	+208'	1258,579	246,953	
20	660		140°34.7'	+2°	14.2	88°44'	+14.6	+0.4			TP	-511'	+417'	1,258,324	247,162	
20	660				13.1	88°50'	+13.4	+0.3		688.3	TP					
	1650		321°8.2'-180°	1.2°	+4.2	-		+4.2	692.5		BS					
	1650				+12.5	TH	-8.3	+4.2			BS	-1288'	+1031'			
21	1320		321°8.2'	+2°	15.1	-		-15.1		677.4		+1031'	-825'	1,258,067	247,368	
22	990		" "	"	7.3	91°30'	-25.9	-33.2		659.3		+773'	-618'	1,257,809	247,575	
23	660		320°-	+2°	13.3	92°-	-23.0	-36.3		656.2		+507'	-422'	1,257,543	247,771	
24	330		" "	"	14.6	91°-	-5.8	-20.4		672.1		+254'	-211'	1,257,290	247,982	
25	0				5.4	-		-5.4		687.1	X	0	0	1,257,036	248,193	
26	330		125°17'	+2°	28	89°-	+5.8	+3.0		695.5		-192'	+269'	1,256,844	248,462	
27	660		121°5'	+2°	13.4	89°-	+11.5	-1.9		690.6	TP	-343+2	+564	1,256,696	248,757	
27	660				11.4	89°10'	+9.6	-1.8			TP					
	660		308°54'-180°	+2°	+3.5	BH	+3.3	+6.8	697.4		BS	-416+2	+512			
	660				+10.1	TH	-3.3	+6.8			BS					

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1/22/80		G. Cotcamp		G. Litzinger		6834		GHL rlw		6		3		
AREA		TOPO MAP		STATE		COUNTY		RANGE		PPM		PARTY MANAGER		
Georgia		Sparta NW		Georgia		Hancock						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.	
									697.4					
28	330		311° 34'	+2.0	7.9	-		-7.9		689.5		+220	-246	1256502 249,023
29	0				5.4	-		-5.4		692.0	TP	0	0	1256282 249,269
30	330		134° 20'	+2.0	0.7	-		-0.7		696.7		-231	+235	1256051 249,504
31	660		134° 42.8'	+2.0	8.1	89°	+11.5	+3.4		700.8	TP	-466.2	+467	1255818 249,736
31	660				4.3	89° 20'	+7.7	+3.4			TP			
	660		317° 15.3'-180°	+2.0	+8.8	89°	-11.5	-2.7	698.1		BS	-486.23	+446	
	660				+3.1	89° 30'	-5.8	-2.7			BS			
32	330		313° 26'	+2.0	1.6	TH	+1.7	+0.1		698.2		+228	-239	1255563 249,943
33	0				5.4	-		-5.4		692.7	TP	0	0	1255335 250,182
34	330		129° 8'	+2.0	2.0	-		-2.0		696.1		-209	+235	1255126 250,437
34	608		127° 4'	+2.0	2.3	89° 30'	+5.3	+3.0		701.1		-368	+484	1254968 250,666 1,254,950 + 250,665 - intersect el. 702
35	660		127° 34.3'	0°	3.4	89° 30'	+5.8	+2.4		700.5	TP	-402.4	+523.3	1254937 250,702
35	660				5.3	89° 20'	+7.7	+2.4			TP			
	660		303° 56.3'-180°	0°	+5.5	89°	-11.5	-6.0	694.5		BS			
	660				+1.7	89° 20'	-7.7	-6.0			BS	-368.4	+548.3	
36	330		303° 56.3'	0°	3.3	-		-3.3		691.2		+184	-274	1254757 250,973
37	0				5.4	-		-5.4		689.1	TP	0	0	1254573 251,217
38	330		131° 0.3'	0°	2.0	-		-2.0		692.5	TP	-217.4	+249.3	1254360 251,493
38	330				3.7	TH	+1.7	-2.0			TP			

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1/22/80		G. Cotcamp		G. Litzinger		6834		slw GHL			6		4		
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Georgia		Sparta NW		Georgia		Hancock								Davis	
STATION NO.	SLOPE DISTANCE	PLOTING 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 -	EAST + WEST -		Y
												LAT.	DEP.		
38										692.5					
	330		325° 17' - 180°	0°	+12.5	-		+12.5	705.0		BS	-271+4	+188-3		
	330				+10.9	84	+1.7	+12.6			BS				
39	0				54	-		-5.4		699.6	TP	0	0	1257,093	251,678
40	330		157° 14.5'	0°	6.7	89° -	+5.8	-0.9		704.1	TP	-304+4	+128-3	1253,793	251,503
40	330				8.7	88° 40'	+7.7	-1.0			TP				
	660		391° 6.7' - 180°	0°	+3.2	88° -	-23.0	-19.8	684.3		BS	-624+4	+214-3		
	660				+5.2	87° 50'	-24.9	-19.7			BS				
41	330		337° 46'	0°	2.3	88° -	+11.5	+9.2		693.5		+305	-125	1253,478	251,889
42	0				54	-		-5.4		678.9	TP	0	0	1253,173	252,014
43	330		154° 3'	0°	9.0	92° -	-11.5	-20.5		663.8		-297	+144	1252,876	252,158
44	660		" "	"	14.5	91° -	-11.5	-26.0		658.3		-593	+289	1252,530	252,303
45	990		159° 3'	0°	2.4	91° -	-17.3	-19.7		664.6	TP	-890+4	+433-3	1252,287	252,844
45	990				8.2	90° 40'	-11.5	-19.7			TP				
	990		334° 59' - 180°	-1°	+5.7	90° 30'	+8.6	+14.3	678.9		BS	-896+4	+420-3		
	990				+8.6	90° 20'	+5.8	+14.4			BS				
46	660		339° 59'	-1°	14.9	84	-3.3	-18.1		660.8		+598	-290	1257,993	252,551
47	330		" "	"	7.9	-		-7.9		671.0		+299	-140	1251,694	252,721
48	0				54	-		-5.4		673.5	TP	0	0	1251,395	252,861
49	330		167° 13'	-1°	13.1	-		-13.1		665.8		-322	+74	1257,079	252,935
50	660		162° 41'	-1°	11.7	-		-11.7		667.2		-630	+198	1250,715	253,059

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1/22/80		G. Cotcamp		G. Litzinger		6834		rlw GHL		6		5							
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER					
Georgia		Sparta NW		Georgia		Hancock								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				
									678.9										
51	990		159°25'	-1°	8.6	-		-8.6		670.3	TP	-926+4	+350	1250,473	253,211				
51	990				13.6	TH	+5.0	-8.6			TP								
	654		314°39'-180°	-1°	+8.2	88°-	-22.8	-14.6			BS	-459+4	+466						curve
	654				+5.1	88°16'	-19.8	-14.7	655.6		BS								
52	330		306°54'	-1°	1.0	88°-	+11.5	-10.5		645.1		+198	-264	1250,216	253,413				horiz. correct. y=+99' x=-36'
53	0				54	-		-5.4		650.2	X	0	0	1250,018	253,677				1,250,000 + 253,735
TF	60		106°12'	-1°	9.1	-		-9.1		646.5		-17	+58	1250,001	253,735				Trail (south) el. 696
54	330		115°29'	0°	14.3	91°-	-5.8	-20.1		635.5		-142	+298	1,249,876	253,978				
55	660		" "	"	11.8	91°-	-11.5	-23.3		632.3		-284	+596	1,249,734	254,273				
56	990		" "	"	12.2	90°30'	-8.6	-20.8		634.8		-426	+894	1,249,592	254,571				
57	1320		116°36.5'	0°	7.8	90°30'	-11.5	-19.3		636.3	TP	-591	+1180	1,249,427	254,857				
57	1320				12.7	BH	-6.6	-19.3			TP								
	1320		308°9'-180°	0°	+1.1	-	1	+1.12	637.4		BS								
	1320				+7.7	TH	-6.6	+1.1			BS	-815	+1038-						
58	990		308°9'	0°	1.8	-		-1.8		635.6		+612	-779	1,249,224	255,116				
59	660		" "	"	2.4	-		-2.4		635.0		+408	-519	1,249,020	255,376				
60	330		305°36'	0°	3.6	-		-3.6		633.8		+192	-268	1,248,804	255,627				
61	0				5.4	-		-5.4		632.0	X	0	0	1,248,612	255,895				
62	330		123°38'	0°	6.4	-		-6.4		631.0		-183	+275	1,248,929	256,170				
63	660		" "	"	7.3	-		-7.3		630.1		-366	+550	1,248,296	256,446				#445

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1/22/80		G. Cotcamp		G. Litzinger		6834		GHL rlu		6	6			
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER			
Georgia		Sparta NW		Georgia		Hancock					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.	
									637.4					
64	990		122°45'	0°	8.8	-		-8.8		628.6		-536	+833	1248,076 256,728
65	1320		122°02'	0°	10.2	-		-10.2		627.2	TP	-700-2	+1119+2	1247,910 257,016
65	1320				3.6	BH	-6.6	-10.2			TP			
	990		303°52.8' +180°	0°	+0.8	-		+0.8	628.0		BS	-552-2	+822+2	
	990				+5.8	TH	-5.0	+0.8			BS			
66	660		305°5'	0°	2.3	-		-2.3		625.7		+379	-540	1247,735 257,300
67	330		308°28'	0°	3.5	-		-3.5		624.5		+205	-258	1247,561 257,582
68	0				5.4	-		-5.4		622.6	X	0	0	1247,356 257,540
69	330		137°8'	0°	8.3	-		-8.3		619.7		-250	+216	1247,106 258,056
70	660		143°23.5'	0°	13.7	-		-13.7		614.3	TP	-530-2	+394+2	1246,824 258,236
70	660				10.4	BH	-3.3	-13.7			TP			
	1650		327°44.1' +180°	0°	+6.7	89°20'	-19.2	-12.5	601.8		BS	-1395-2	+891	
	1650				+1.9	89°30'	-14.4	-12.5			BS			
71	1320		327°10'	0°	4.8	89°30'	+11.5	+6.7		608.5		+1109	-716	1246,536 258,401
72	990		" "	"	3.9	TH	+5.0	+1.1		602.9		+832	-537	1246,259 258,580
73	660		325° -	0°	4.7	-		-4.7		597.1		+591	-379	1245,968 258,738
74	456		329°53'	0°	7.1	-		-7.1		594.7		+373	-263	1245,800 258,854
74	330		321°28'	0°	7.3	-		-7.3		594.5		+258	-206	1245,685 258,911
75	0				5.4	-		-5.4		596.4	X	0	0	1245,427 259,117
76	330		131°35'	+1°	3.1	-		-3.1		598.7		-219	+247	1245,208 259,364

1245,790 + 258,875
T- rd. (southwest) el. 595.

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1/24/80		G. Cotcamp		M. Stimac		6834		GHL rlw		6	7				
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER					
Georgia		Sparta NW		Georgia	Hancock					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
									601.8						
77	660		128° 28'	+1°	4.1	-		-4.1		597.7		-411	+516	1245,016	259,639
78	990		" "	"	7.5	-		-7.5		594.3		-517	+774	1244,910	259,891
79	1320		127° 41'	+1°	10.5	-		-10.5		591.3		-809	+1043	1244,618	260,160
80	1650		127° 19.6'	+1°	13.6	-		-13.6		588.2	TP	-1003.2	+1310	1,294,922	260,427
80	1650				5.3	BH	-8.3	-13.6			TP				
	1320		303° 57.6' -180°	+1°	+7.3	-		+7.3	595.5		BS	-739.2	+1094		
	1320				+13.9	TH	+6.6	+7.3			BS				
81	990		303° -	+1°	8.2	-		-8.2		587.3		+541	-829	1244,222	260,692
82	660		301° 29'	+1°	7.1	-		-7.1		588.4		+346	-562	1244,027	260,953
83	330		" "	"	6.2	-		-6.2		589.3		+173	-281	1,243,854	261,240
84	0				5.4	-		-5.4		590.1	TP	0	0	1,243,681	261,521
85	330		121° 15'	+1°	3.8	-		-3.8		591.7		-172	+282	1,243,509	261,803
86	660		" "	"	1.9	-		-1.9		593.6		-343	+564	1243,338	262,085
87	990		123° 43.5'	+1°	2.6	TH	+5.0	+2.4		597.9	TP	-551.2	+822	1,243,128	262,343
87	990				3.4	89° 40'	+5.8	+2.4			TP				
	1320		320° 49.6' -180°	+1°	+14.7	89° 40'	-7.7	+7.0			BS	-1025.2	+872		
	1320				+13.2	89° 44'	-6.1	+7.1	605.0		BS				
88	990		321° 56'	+1°	10.8	89° 30'	+8.6	-2.2		602.8		+780	-609	1,242,881	262,566
89	660		" "	"	3.7	89° 40'	+3.8	+0.1		605.1		+520	-406	1,242,621	262,769
90	330		" "	"	0.1	TH	1.7	+1.6		606.6		+260	-203	1,242,361	262,922

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
1/24/80		G. Cotcamp		M. Stimac		6834		GHL rlv		6	8			
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER			
Georgia		Sparta NW		Georgia		Hancock					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.	
									605.0					
91	0				5.4	-		-5.4		599.6	TP	0	0	1,242,101 263,175
92	330		150°33'	+1°	11.9	-		-11.9		593.1		-288	+162	1,241,813 263,337
93	660		152°53'	+1°	13.8	-		-13.8		591.2	TP	-588	+300	1,241,513 263,475 last sta. on pavement
93	660				10.5	0H	-3.3	-13.8			TP			
	990		250°55'-180°	+1°	+1.0	TH	-5.0	-4.0			BS	+335	+931	
	990				+4.7	89°30'	-8.6	-3.9	587.3		BS			
1/2	970		250°45'	+1°	0.8	TH	+4.9	+4.1		591.4		-329	-913	1,241,519 263,493 T-intersect ELW. 592
94	660		250°55'	+1°	1.9	-		-1.9		585.4		-224	-621	1,241,624 263,785 dirt road
95	330		" "	"	6.9	-		-6.9		580.4		-112	-310	1,241,736 264,096 ↓
96	0				5.4	-		-5.4		581.9	TP	0	0	1,241,898 264,906
97	330		55°9.2'	-2°	4.1	-		-4.1		583.2		+190	+270	1,242,038 264,676
98	660		55°9.2'	-2°	3.5	TH	+3.3	-0.2		587.1	TP	+379.2	+540.	1,242,225 264,946
98	660				6.0	89°30'	+5.8	-0.2			TP			
	660		223°46.7'-180°	-2°	+8.4	88°30'	-17.3	-8.9	578.2		BS	+478.2	+455	
	660				+6.5	88°40'	-15.4	-8.9			BS			
99	330		223°46.7'	-2°	2.8	88°30'	+8.6	-5.8		572.4		-239	-227	1,242,462 265,174
100	0				5.4	-		-5.4		572.8	TP	0	0	1,242,701 265,401
101	330		49°23.9'	-2°	13.0	90°20'	-1.9	-14.9		563.3	TP	+216.2	+250	1,242,915 265,651
101	330				12.1	90°30'	-2.9	-15.0			TP			

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
1/24/80		G. Cotcamp		M. St. mac		6834		GHL rlu		6	9						
AREA		TOPO MAP		STATE	COUNTY	TWP	RANGE	PPM	PARTY MANAGER								
Georgia		Sparta NW		Georgia	Hancock				Davis								
STATION NO.	SLOPE DISTANCE	PLOTING 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		
101										563.3							
	327		231° 21' - 180°	-4°	+3.1	TH	-1.6	+1.5	564.8		BS	+206.2	+254				curve
	327				+4.3	89° 30'	-2.9	+1.4			BS						
102	0				5.4	-		-5.4		559.4	X	0	0	1,243,119	265,905		
103	330		38° 13.5'	-4°	11.8	92° -	-11.5	-23.3		541.5		+261	+202	1,243,380	266,107		
104	660		38° 13.5'	-4°	14.6	92° -	-23.0	-37.6			TP	+521.2	+405	1,243,638	266,310		
104	660				10.7	92° 20'	-26.8	-37.5		527.3	TP						
	330		224° 54' - 180°	-4°	+1.2	88° 30'	-8.6	-7.4	519.9		BS	+235.2	+231				
	330				+4.1	88° -	-11.5	-7.4			BS						
105	0				5.4	-		-5.4		514.5	X	0	0	1,243,871	266,591		
106	330		67° 13'	-4°	6.3	88° -	+11.5	+5.2		525.1		+136	+303	1,244,001	266,894		
107	654		62° 14.3'	-4°	4.3	87° 20'	+30.4	+26.1		546.0	TP	+309.2	+577	1,244,178	267,118		curve
107	654				2.4	87° 30'	+28.5	+26.1			TP						
	330		232° 42' - 180°	-4°	+10.5	-		+10.5	556.5		BS	+202	+261				
	330				+12.2	TH	-1.7	+10.5			BS						
108	0				5.4	-		-5.4		551.1	X	0	0	1,244,380	267,379		
109	334		69° 37'	-4°	3.0	-		-3.0		553.5	TP	+119	+312	1,244,499	267,691		T.P. opposite sta.
109	334				4.7	TH	+1.7	-3.0			TP						
	990		267° 31.4' - 180°	-4°	+13.2	89° 50'	-2.9	+10.3			BS	+50	+989				
	990				+14.4	89° 46'	-4.0	+10.4	563.9		BS						
110	660		267° 31.4'	-4°	11.8	91° -	-11.5	-23.3		540.6		-33	-659	1,244,516	268,021		

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
1/24/80		G. Cotcamp		M. Stinas		6834		revised GML		6	11						
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
Georgia		Sparta NW		Georgia	Hancock					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		
									496.8								
122	330		61°55.6'	-6	10.3	-		-10.3			TP	+158-3	+289	1,244,437	271,852		
122	330				11.9	TH	+1.7	-10.2		486.6	TP						
	660		230°22'-180°	-6	+15.0	91°-	+11.5	+26.5	513.1		BS	+426-3	+504				
	660				+3.5	92°-	+23.0	+26.5			BS						
123	330		230°22'	-6	14.7	-		-14.7		498.4		-213	-252	1,244,697	272,104		
124	0				5.9	-		-5.4		507.7	X	0	0	1,244,860	272,354		
125	330		50°22'	-6	0.5	-		-0.5		512.6		+213	+252	1,245,073	272,608		
126	660		43°5'	-6	1.8	88°40'	+15.4	+13.6		526.7	TP	+487-3	+446	1,245,344	272,802		
126	660				5.6	88°20'	+19.2	+13.6			TP						
	660		218°43.2'-180°	-6	+14.6	92°16'	+26.1	+40.7	567.4		BS	+519-3	+407				
	660				+10.0	92°40'	+30.7	+40.7			BS						
127	330		218°43.2'	-6	12.3	92°-	-11.5	-23.8		543.6		-260	-204	1,245,600	273,005		
128	0				5.9	-		-5.4		562.0	X	0	0	1,245,860	273,209	horiz. correct	Y = -98' X = +6'
129	330		31°42'	-6	5.2	-		-5.2		562.2		+283	+170	1,246,143	273,379		
129	470		25°57'	-6	5.5	-		-5.5		561.9		+425	+201	1,246,285	273,410	1,246,285 + 273,410 trail (east)	
130	655		25°2.8'	-6	-11.2	-		-11.2		556.2	TP	+596	+271-3	1,246,456	273,477	curve	
130	655				-14.5	TH	+3.3	-11.2			TP						
	318		230°59'-180°	-6	+11.5	86°50'	-17.5	-6.0			BS	+203	+245-3				curve
	318				+10.7	87°-	-16.6	-5.9	550.3		BS						
131	0				5.4	-		-5.4		544.9	X	0	0	1,246,659	273,719		

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
1/25/80		G. Cotcamp		M. Stimpac		6837		rew GHL		6		12			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Georgia		Sparta NE		Georgia		Hancock								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
									550.3						
132	330		81° 6'	-6°	7.4	-		-7.4		542.9		+54	+325	1,246,713	274,044
133	660		81° 6'	-6°	1.1	-		-1.1		549.2	TP	+109	+651-3	1,246,768	274,367
133	660				4.4	TH	+3.3	-1.1			TP				
	660		254° 26' -180°	-6°	+9.3	-		+9.3	558.5		BS	+184	+634-3		
	660				+12.6	TH	-3.3	+9.3			BS				
134	330		251° 46'	-6°	6.4	-		-6.4		552.1		-107	-312	1,246,845	274,686
135	0				5.4	-		-5.4		553.1	TP	0	0	1,246,952	274,998
135	25		30° 30'	-6°	4.0	-		-4.0		554.5		+22	+12	1,246,974	275,010
136	330		113° 6'	-3°	11.1	-		-11.1		547.4		-128	+304	1,246,824	275,302
137	660		113° 20'	-3°	14.7	-		-14.7		543.8		-258	+607	1,246,694	275,605
138	990		111° -	-3°	10.7	-		-10.7		547.8		-350	+926	1,246,602	275,924
139	1320		109° 32.3'	-3°	1.5	-		-1.5		557.0	TP	-435-2	+1246-2	1,246,515	276,242
139	1320				8.1	TH	+6.6	-1.5			TP				
	660		276° 36' -180°	-3°	+13.2	88° -	-23.0	-9.8			BS	-72-2	+656-2		
	660				+11.2	88° 10'	-21.1	-9.9	547.1		BS				
140	330		276° 36'	-3°	3.8	88° -	+11.5	-3.8		543.3		+36	-328	1,246,477	276,568
141	0				5.4	-		-5.4		541.7	TP	0	0	1,246,441	276,896
142	330		105° 41.5'	-31°	11.1	91° -	-5.8	-16.9		530.2	TP	-88-2	+318-2	1,246,351	277,212
142	330				14.0	90° 36'	-2.9	-16.9			TP				

1,246,975 + 274,995
Y-intersect El. 555

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
1/25/80		G. Cotcamp		M. Stimac		6837		GHL		6	13			
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
Georgia		Sparta NW		Georgia	Hancock					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.	
142										530.2				
	990		291° 9' 780°	-10	+2.5	91° 20'	+23.0	+25.5	555.7		BS	-356-2	+924-2	
	990				+1.3	91° 24'	+24.2	+25.5			BS			
143	660		289° 25'	-10	14.0	91° -	-11.5	-25.5		530.2		+218	-623	1,246,211 277,511
144	330		285° 4'	-10	114	91° -	-5.8	-17.2		538.5		+85	-319	1,246,078 277,815
145	0				5.4	-		-5.4		550.3	X	0	0	1,245,993 278,134
146	330		85° 22'	-10	3.3	89° -	+5.8	+2.5		558.2		+27	+329	1,246,020 278,463
147	660		81° 49.5'	-10	3.9	89° -	+11.5	+7.6			TP	+95-2	+653-2	1,246,086 278,785
147	660				5.9	88° 50'	+13.4	+7.5		563.2	TP			
	660		268° 25.6' -180°	-10	+5.2	89° -	-11.5	-6.3	556.9		BS	+19-2	+660-2	
	660				+0.6	89° 24'	-6.9	-6.3			BS			
148	330		268° 25.6'	-10	3.5	89° -	+5.8	+2.3		559.2		-10	-330	1,246,093 279,113
149	0				5.4	-		-5.4		551.5	X	0	0	1,246,103 279,443
150	330		102° -	-10	9.6	-		-9.6		547.3		-68	+323	1,246,035 279,766
151	660		" "	"	6.3	-		-6.3		550.6		-136	+646	1,245,967 280,089
152	990		100° 17'	-10	1.9	-		-1.9		555.0	TP	-171-2	+975-2	1,245,930 280,916
152	990				6.9	TH	5.0	-1.9			TP			
	655		273° 55.7' -180°	-10	+8.3	-		+8.3	563.3		BS	-44-2	+654-2	curve
	655				+11.6	TH	3.3	+8.3			BS			
153	330		267° 17'	-10	12.9	-		-12.9		550.4		-16	-330	1,245,868 280,738
154	0				5.4	-		-5.4		557.9	X	0	0	1,245,884 281,068

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
1/25/80		G. Cotcamp		M. Stimac		6834		Jew GHL		6	14			
AREA		TOPO MAP		STATE		COUNTY		RANGE		PPM		PARTY MANAGER		
Georgia		Sparta NW/Sparta NE		Georgia		Hancock						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.	
									563.3					
155	330		83°46'	+1.0	1.2	87°-	+17.2	+16.0		579.3		+35	+328	1,245,919 281,396
156	660	659	83°46'	+1.0	8.6	87°-	+34.5	+25.9		589.2	TP	+70-2	+655-2	1,245,952 281,721
156	660				8.2	87°2'	+34.1	+25.9			TP			
	987		262°35'-180°	+1.0	-2.0	-		+2.0	591.2		BS	+135-1	+978-1	
	987				+6.9	TH	-4.9	+2.0			BS			curve
157	660		260°31'	+1.0	7.8	-		-7.8		583.4		-108	-651	1,245,978 282,047
158	330		256°52'	+1.0	8.0	-		-8.0		583.2		-74	-321	1,246,012 282,377
159	0				5.4	-		-5.4		585.8	π	0	0	1,246,086 282,698
TP	258		96°6.7'	+1.0	1.2	88°-	+9.0	+7.8		599.0		+178	+186	1,246,269 282,884 T-rd (south)
160	330		47°50'	+1.0	1.6	88°-	+11.5	+9.9		601.1		+221	+245	1,246,307 282,993
161	664		45°57'	+1.0	5.0	88°-	+23.2	+18.2		609.4	TP	+461	+478-2	1,246,597 283,174
161	664				3.0	88°10'	+21.2	+18.2			TP			
	660		232°46'-180°	+1.0	+4.1	TH	-3.3	+0.8	610.2		BS	+398	+526-2	
	660				+4.6	89°46'	-3.8	+0.8			BS			
162	330		232°46'	+1.0	1.8	-		-1.8		608.4		-199	-263	1,246,746 283,435 ↑
163	0				5.4	-		-5.4		604.8	π	0	0	1,246,795 283,678 Sparta NW
164	330		54°9'	+1.0	0.3	-		-0.3		609.9		+193	+268	1,247,138 283,966 Sparta NE
165	660		54°4'	+1.0	2.4	89°-	+11.5	+9.1		619.3	TP	+386	+535-2	1,247,331 284,231 ↓
165	660				1.2	89°6'	+10.4	+9.2			TP			

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 1/25/80		INSTRUMENT MAN G. Cotcamp		ROD MAN M. Stimac		PARTY NUMBER 6834		NOTES CHECKED BY GHL		LINE NO. 6		PAGE 15				
AREA Georgia		TOPO MAP Sparta N		STATE Georgia		COUNTY Hancock		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	NORTH + SOUTH - LAT.	EAST + WEST - DEP.	COORDINATES Y X		REMARKS
165										619.3						
	660		291° 24.8' - 180°	+1.0	+8.5	74	-3.3	+5.2	624.5		BS	+315	+580.2			
	660				+8.3	89° 44'	-3.0	+5.3			BS					
166	330		291° 24.8'	+1.0	1.2	74	+1.7	+0.5		625.0		-157	-290	1,247,489	284,519	
167	0				5.4	-		-5.4		619.1	TP	0	0	1,247,696	284,809	
168	335		56° 1'	+1.0	12.3	91° -	-5.8	-18.1		606.4		+187	+278	1,247,833	285,087	1,247,850 + 285,075 T. intersect. el. 605.1 line #5
168	330		61° 36'	+1.0	12.7	91° -	-5.8	-18.5		606.0	TP	+156	+290	1,247,802	285,099	
168	330				9.9	91° 30'	-8.6	-18.5			TP					
	660		300° 7.3' - 180°	+1.0	+8.2	88° -	-23.0	-14.8	591.2		BS	-332	+570			
	660				+10.1	87° 30'	-24.9	-14.8			BS					
169	330		296° 42'	+1.0	4.0	89° -	+5.8	+1.8		593.0		+149	-295	1,247,619	285,374	
170	0				5.4	-		-5.4		585.8	TP	0	0	1,247,470	285,669	
171	330		117° 38'	+1.0	6.8	-		-6.8		584.4		-154	+292	1,247,316	285,961	
172	660		" "	"	9.5	-		-9.5		581.7		-307	+584	1,247,163	286,253	
173	990		117° 38'	+1.0	10.4	-		-10.4		580.8	TP	-461	+876	1,247,009	286,545	T.P. opposite station
173	990				5.4	84	-5.0	-10.4			TP					
	660		305° 29.3' - 180°	+1.0	+2.9	-		+2.9	583.7		BS	-383	+537			horiz. correct. y = -19' x = -39'
	660				+6.2	74	-3.3	+2.9			BS					
	470		305° 30'	+1.0	4.3	-		-4.3		579.4		+274	-382	1,246,900	286,700	1,246,900 + 286,700 trail El. 579
174	330		" "	"	5.9	-		-5.9		577.8		+192	-268	1,246,818	286,814	
175	0				5.4	-		-5.4		578.3	TP	0	0	1,246,626	287,082	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
1/25/80		G. Cotcamp		M. Stimac		6834		revised GHL		6		16			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Georgia		Sparta NE		Georgia		Hancock								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 -	EAST + WEST -		Y
									583.7						
176	330		130°29'	-1°	2.9	-		-2.9		580.8	TP	-214+3	+254+1	1,246,415	287,334
176	330				4.6	TH	+1.7	-2.9			TP				
	330		301°17'-180°	-1°	+12.3	-		+12.3	593.1		BS	-170+3	+283+1		
	330				+14.0	TH	-1.7	+12.3			BS				
177	0				5.4	-		-5.4		587.7	X	0	0	1,246,248	287,618
178	327		160°10.4'	-1°	12.7	92°-	-11.4	-24.1		569.0	TP	-57+3	+322+1	1,246,194	287,941
178	327				14.6	91°40'	-9.5	-24.1			TP				curve
	330		265°45'-180°	-1°	+1.2	TH	-1.7	-0.5	568.5		BS	+25+3	+329+1		
	330				+2.4	89°30'	-2.9	-0.5			BS				
179	0				5.4	-		-5.4		563.1	X	0	0	1,246,222	288,271
180	330		93°4.5'	-3°	7.3	-		-7.3		561.2		-16	+330	1,246,206	288,601
181	660		" "	"	8.0	-		-8.0		560.5		-32	+659	1,246,190	288,930
TP	865		93°4.5'	-3°	5.2	BH	-4.3	-9.5		559.0	TP	-42+3	+864+1	1,246,183	289,136
TP	865				4.5	90°20'	-5.0	-9.5			TP				split station - sharp curve
	125		303°33.5'-180°	-3°	+6.4	-		+6.4	565.4		BS	-69+3	+105+1		
	125				+7.0	TH	-0.6	+6.4			BS				
182	0				5.4	-		-5.4		560.0	X	0	0	1,246,117	289,242
183	330		131°56.8'	-3°	6.2	-		-6.2		559.2	TP	-219+3	+247	1,245,901	289,489
183	330				7.9	TH	+1.7	-6.2			TP				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
1/28/80		G. Cotcamp		M. Stinson		6834		rlw GHL		6	17				
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
Georgia		Sparta NE		Georgia		Hancock					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										559.2					
	990		305°37' -180°	-3°	+6.9	89°	-17.3	-10.4			BS	-572.3	+808		
	990				+5.1	89°6'	-15.6	-10.5	548.7		BS				
184	660		305°37'	-3°	3.8	-		-3.8		544.9		+382	-538	1245.714	289.759
185	330		"		6.7	-		-6.7		542.0		+191	-269	1245.523	290.028
186	0				54	-		-5.4		543.3	TP	0	0	1245.332	290.297
187	330		117°56'	-3°	2.9	-		-2.9		545.8		-153	+292	1245.174	290.589
188	660		"		2.1	TH	+3.3	+1.2		549.9		-306	+585	1245.026	290.882
189	990		"		10.8	89°	+17.3	+6.5		555.2		-459	+877	1244.873	291.174
190	1320		"		11.8	89°	+23.0	+11.2		559.9		-612	+1169	1244.720	291.466
191	1650		117°56'	-3°	11.1	89°	+28.8	+17.7		566.4	TP	-765.3	+1462	1244.570	291.759
191	1650				4.3	89°4'	+22.1	+17.8			TP				
	658	657	290°42.5' -180°	-3°	+4.6	93°	+34.4	+39.0	605.4		BS	-229.3	+616		
	658				+12.3	92°20'	+26.8	+39.1			BS				
77	620	619	291°1.3'	-3°	10.4	92°30'	-27.0	-37.4		568.0		+219	-579	1244.563	291.796
192	330		284°46'	-3°	13.2	92°	-11.5	-24.7		580.7		+82	-320	1244.426	292.055
193	0				54	-		-5.4		600.0	TP	0	0	1244.344	292.375
194	328		81°32.8'	-3°	6.9	-		-6.9		598.5	TP	+50	+324	1244.394	292.699
194	328				8.6	TH	1.6	-7.0			TP				
	418	417	292°22' -180°	-3°	+4.3	87°	-21.8	-17.5	581.0		BS	+195	+368		
	418				+1.2	87°26'	-18.7	-17.5			BS				

Curve
1244.680 291.889
T-rd.-South (E) 568

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
1/28/80		G. Cotcamp		M. Stimac		6834		Jew GHL		6	18						
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
Georgia		Sparta NE		Georgia	Hancock					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		
									581.0								
195	88		298° -	-3°	3.3	-		-3.3		577.7		-33	-81	1244,556	292,986		
π	0				5.9	-		-5.4		575.6	π	0	0	1244,589	293,067	split sta. - curve	
196	243		99° 7.3'	-3°	0.4	7H	+1.2	+0.8		581.8	TP	-16+3	+242	1244,576	293,309		
196	243				1.3	89°30'	+2.1	+0.8			TP						
	660	659	282°33' -180°	-3°	+4.4	87°30'	-28.8	-24.4			BS	-140	+644				
	660				+6.3	87°20'	-30.7	-24.4	557.4		BS						
197	330		282°33'	-3°	3.6	88° -	+11.5	+7.9		565.3		+70	-322	1244,506	293,631		
198	0				5.9	-		-5.4		552.0	π	0	0	1244,436	293,953		
199	330		106° -	-3°	9.6	-		-9.6		547.8		-89	+318	1244,347	293,271		
200	660		" "	"	12.8	-		-12.8		544.6		-179	+635	1244,257	294,588		
201	990		103°59.3'	-3°	2.5	8H	-5.0	-7.5		549.9	TP	-234	+962	1244,202	294,915		
201	990				4.6	90°10'	-2.9	-7.5			TP						
	665	664	276°11' -180°	-3°	+12.9	87° -	-34.8	-22.4			BS	-68	+661				
	665				+10.5	87°10'	-32.8	-22.3	527.6		BS						
202	330		276°11'	-3°	2.6	88° -	+11.5	+8.9		536.5		+34	-328	1244,168	295,248		
203	0				5.9	-		-5.4		522.2	π	0	0	1244,134	295,576	set up opposite sta.	
204	330		113°50'	-3°	14.5	8H	-1.7	-16.2		511.4		-132	+303	1244,002	295,819		
205	660		" "	"	18.3	72° -	-23.0	-41.3		486.3		-264	+605	1243,870	296,181		
206	990	989	113°50'	-3°	8.5	92° -	-34.5	-43.0		484.6	TP	-395	+907	1243,739	296,483		
206	990				14.3	91°40'	-28.8	-43.1			TP						

SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
1/28/80		G. Cotcamp		M. Stimes		6839		rlw GHL		6		19				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
Georgia		Sparta NE		Georgia		Hancock								Davis		
STATION NO.	SLOPE DISTANCE	PLOTING 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 -	EAST + WEST -		Y	X
												LAT.	DEP.			
206										484.6						
	1320	1319	296°42.3'-180°	-3°	+4.7	87°44'	-52.2	-47.5			BS	-587	+1181			
	1320				+10.2	87°30'	-57.5	-47.3	437.3		BS					
207	990		297°52'	-3°	12.1	87°35'	+43.1	+31.0		468.3		+458	-878	1,242,610	296,786	
208	660		299°50'	-3°	9.2	88°-	+23.0	+13.8		451.1		+325	-574	1,243,477	297,090	
209	330		" "	"	4.1	88°-	+11.5	+7.4		444.7		+163	-287	1,243,315	297,377	
210	0				5.4	-		-5.4		431.9	π	0	0	1,243,152	297,664	
211	330		130°50'	-3°	11.0	93°-	-17.2	-28.2		409.1		-214	+251	1,242,939	297,915	
212	654	654	139°31'	-3°	9.2	92°-	-22.8	-32.0		405.3	TP	-495	+427	1,242,657	298,091	curve
212	654				14.9	91°30'	-17.1	-32.0			TP					
	660		343°27.4'-180°	-3°	+3.5	-		+3.5	408.8		BS	-632	+191			
	660				+6.8	TH	-3.3	+3.5			BS					
213	330		341°34'	-3°	3.9	-		-3.9		404.9		+313	-106	1,242,338	298,176	
214	0				5.4	-		-5.4		403.4	π	0	0	1,242,925	298,282	
215	330		126°49'	-3°	10.1	-		-10.1		398.7		-196	+265	1,241,829	298,547	
216	657		130°19.5'	-3°	14.5	89°30'	+5.7	-8.8		400.0	TP	-423	+500	1,241,602	298,785	curve
216	657				14.9	89°28'	+6.1	-8.8			TP					
	660		315°21.2'-180°	-3°	+2.5	-		+2.5	402.5		BS	-467	+466		horiz correct. y=+33 x=+6'	
	660				+5.8	TH	-3.3	+2.5			BS					
	800		316°16'	-3°	1.9	-		-1.9		400.6		+575	-556	1,241,710	298,695	7-rod (south)
217	330		315°21.2'	-3°	3.6	-		-3.6		398.9		+234	-233	1,241,369	299,018	

SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
1/28/80		G. Cotcamp		M. Stimac		6834		Jew GHL		6		20				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
Georgia		Sparta NF		Georgia		Hancock/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	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
									402.5							
218	0				5.4	-		-5.4		397.1	X	0	0	1,241,135	299,251	Hancock Co. ↑
218	228		83°18'	-3	8.7	-		-8.7		393.8		+28	+226	1,241,163	299,977	bridge
219	258		77°15.3'	-3	13.1	88°59'	+5.0	-8.1		394.4	TP	+58-2	+231-3	1,241,191	299,999	Warren Co. sharp curve ↓
219	258				13.4	88°50'	+5.3	-8.1			TP					
	120		206°37'18.0"	-3	+14.0	-		+14.0	408.4		BS	+108-2	+53-3			
	120				+14.6	TH	-0.6	+14.0			BS					
X	0				5.4	-		-5.4		403.0	X	0	0	1,241,297	299,599	split sta. - curve
220	217		81°55.5'	-3	0.9	89°-	+3.8	+2.9		411.3	TP	+32-2	+215-3	1,241,327	299,761	
220	217				0.3	89°0'	+3.2	+2.9			TP					
	990	988	250°49.8'-180°	-3	+10.1	93°30'	+60.3	+70.4	481.7		BS	+329-2	+932-3			
	990				+8.4	93°36'	+62.0	+70.4			BS					
221	660	659	250°49.8'	-3	14.9	93°30'	-40.2	-55.1		426.1		-220	-621	1,241,434	300,069	
222	330	329			13.4	94°-	-23.0	-36.4		445.3		-110	-310	1,241,544	300,380	
223	0				5.4	-		-5.4		476.3	X	0	0	1,241,654	300,690	
224	330		72°29.4'	-3	11.6	87°-	+17.2	+5.6		487.3	TP	+101-2	+314-3	1,241,753	301,001	
224	330				10.1	87°16'	+15.7	+5.6			TP					
	1320		273°28'-180°	-3	+7.8	91°-	+23.0	+30.8			BS	-79-2	+1318-3			
	1320				+14.8	90°42'	+16.1	+30.9	518.2		BS					
225	990		273°28'	-3	9.1	91°-	-17.3	-26.4		491.8		+355	-988	1,241,733	301,328	
226	660		" "		9.0	91°-	-11.5	-20.5		497.7		+36	-659	1,241,714	301,657	

SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO		PAGE		
1/29/80		G. Cotcamp		M. Stimac		6834		rlw GHL		6		21		
AREA		TOPO MAP		STATE		COUNTY		RANGE		PPM		PARTY MANAGER		
Georgia		Sparta NE		Georgia		Warren						Davis		
STATION NO.	SLOPE DISTANCE	PLOTING 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.	
									518.2					
227	330		273°28'	-3°	19.6	84	-1.7	-16.3		501.9		+18	-329	1,241,696 301,987
228	0				5.4	-		-5.4		512.8	T	0	0	1,241,678 302,316
228	208		91°36'	-3°	0.6	-		-0.6		517.6		-5	+208	1,241,673 302,524 4-way Intersect.
229	330		99°17'	-3°	0.9	-		-0.9		517.3		-23	+329	1,241,655 302,645
230	660		" "	"	6.4	89°-	+11.5	+5.1		523.3		-96	+658	1,241,632 302,974
231	982		99°14.6'	-3°	10.7	89°-	+17.1	+6.4		524.6	TP	-153-2	+970-3	1,241,523 303,283 curve
231	982				5.0	89°20'	+11.4	+6.4			TP			
	330		291°23'-180°	-3°	+6.7	-		+6.7	531.3		BS	-119-2	+308-3	
	330				+8.4	TH	-1.7	+6.7			BS			
232	0				5.4	-		-5.4		525.9	T	0	0	1,241,402 303,588
233	330		93°9'	-3°	0.5	TH	+1.7	+1.2		532.5		-16	+330	1,241,386 303,918
234	660		" "	"	2.5	89°-	+11.5	+9.0		540.3		-33	+659	1,241,369 304,247
235	990		93°9'	-3°	2.2	88°30'	+25.9	+23.7		555.0	TP	-49-2	+989-3	1,241,351 304,574
235	990				5.1	88°20'	+28.8	+23.7			TP			
	660		269°49'-180°	-3°	+3.5	-		+3.5	558.5		BS	+6-2	+660-3	
	660				+6.8	TH	-3.3	+3.5			BS			
236	430		271°4'	-3°	6.7	-		-6.7		551.8		+6	-430	1,241,361 304,801 trail (south)
236	330		269°49'	-3°	6.2	-		-6.2		552.3		-3	-330	1,241,352 304,901 last station on road
237	0				5.4	-		-5.4		553.1	T	0	0	1,241,355 305,231 church yard
238	330		93°7'	-3°	10.6	-		-10.6		547.9		-16	+330	1,241,339 305,561

SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
1/29/80		G. Colcamp		M. Stimac		6834		rlw GML		6		22				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
Georgia		Sparta NE		Georgia		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	COORDINATES		REMARKS		
												NORTH + SOUTH -	EAST + WEST -		Y	X
									558.5							
TP	542		92°26'	-3°	8.6	91°	-9.5	-18.1			TP	-20-2	+592-2	1,241,333	305,771	in woods
TP	542				13.4	90°30'	-4.7	-18.1		540.4	TP					
	119	118	272°57'-180°	-3°	+3.2	81°	-18.4	-15.2			BS	-5-2	+118-2			
	119				+3.9	80°40'	-19.0	-15.1	525.3		BS					
239	0				5.4	-	-5.4			519.9	TP	0	0	1,241,326	305,887	woods
240	330		91°59'	-3°	8.3	-	-8.3			517.0	TP	-10-2	+330-2	1,241,314	306,215	
240	330				10.0	TH	+1.7	-8.3			TP					
	330	329	271°31.7'-180°	-3°	+11.1	93°26'	+19.2	+33.3	550.3		BS	-7-2	+329-2			
	330				+13.2	93°30'	+20.1	+33.2			BS					
241	0				5.4	-	-5.4			544.9	TP	0	0	1,241,305	306,592	
242	330		90°4'	-3°	7.1	88°	+11.5	+4.4		554.7	TP	+1-2	+330-2	1,241,304	306,870	
242	330				6.2	88°10'	+10.6	+4.4			TP					
	330		270°21.8'-180°	-3°	+13.9	-		+13.9	568.6		BS	0-2	+330-2			
	330				+12.2	04	+1.7	+13.9			BS					
243	0				5.4	-	-5.4			563.2	TP	0	0	1,241,302	307,198	
244	330		92°42.5'	-3°	3.9	88°	+11.5	+7.6			TP	-14-2	+330-2	1,241,286	307,526	
244	330				5.7	87°40'	+13.4	+7.7		576.3	TP					
	657		280°40.3'-180°	-3°	+5.7	-		+5.7	582.0		BS	-118-2	+696-2			curve
	657				+9.0	TH	-3.3	+5.7			BS					
-- --	590		280°40'	-3°	7.2	-		-7.2		574.8		+106	-580	1,241,272	307,590	n/s road

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 1/29/80		INSTRUMENT MAN G. Cotcamp		ROD MAN M. Stimac		PARTY NUMBER 6834		NOTES CHECKED BY J. Dew GHL		LINE NO. 6	PAGE 23					
AREA Georgia		TOPO MAP Sparta NE		STATE Georgia		COUNTY Warren		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	X
									582.0							
245	330		283°20'	-3°	8.7	-		-8.7		573.3		+74	-321	1,241,240	307,849	in field
246	0				5.4	-		-5.4		576.6	π	0	0	1,241,166	308,170	paved road
247	330		89°37'	-3°	2.8	-		-2.8		579.2		+4	+330	1,241,170	308,500	↓
248	660		87°45.2'	-3°	4.8	-		-4.8		577.2	TP	+29.2	+659.2	1,241,193	308,827	
248	660				8.1	74	+3.3	-4.8			TP					
	990		263°58.2' - 180°	+3°	+1.6	89°	-17.3	-15.7	561.5		BS	+109	+984.2			
	990				+4.6	88°50'	-20.2	-15.6			BS					
249	660		263°-	-3°	3.5	89°	+11.5	+8.0		569.5		-84	-655	1,241,218	309,154	
250	330		260°10'	-3°	3.6	89°	+5.8	+2.2		563.7		-58	-325	1,241,244	309,484	
251	0				5.4	-		-5.4		556.1	π	0	0	1,241,302	309,809	
252	330		72°47'	-3°	14.1	-		-14.1		547.4		+99	+315	1,241,401	310,124	
253	660		" "		12.7	91°	-11.5	-24.2		537.3		+199	+629	1,241,501	310,438	
254	995		72°15.2'	-3°	10.9	91°30'	-26.0	-36.9		524.6	TP	+308	+946.2	1,241,610	310,753	opposite sta.
254	995				13.8	91°20'	-23.1	-36.9			TP					
	662	660	279°54.3' - 180°	-3°	+5.5	85°50'	-48.0	-42.5	482.1		BS	-53	+658.3			
	662				+7.4	85°40'	-49.9	-42.5			BS					
255	330		279°35'	-3°	5.6	86°	+23.0	+17.4		499.5		+53	-326	1,241,610	311,082	
256	0				5.4	-		-5.4		476.7	π	0	0	1,241,557	311,408	
257	330		111°12'	-3°	9.7	-		-9.7		472.4		-118	+308	1,241,439	311,716	
258	660		" "	-3°	4.4	-		-4.4		477.7		-235	+617	1,241,322	312,025	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 1/29/80	INSTRUMENT MAN G. Cotcamp	ROD MAN M. Stimac	PARTY NUMBER 6834	NOTES CHECKED BY rlw GHL	LINE NO. 6	PAGE 24
AREA Georgia	TOPO MAP Sparta NE	STATE Georgia	COUNTY Warren	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.	
									482.1					
259	990		108°15'	-3°	94	89°	+17.3	+7.9		490.0	TP	-305	+942-3	1241,252 312,347
259	990				0.7	89°30'	+8.6	+7.9			TP			
	1320		269°25.2'-180°	-3°	+19.2	91°34'	+36.1	+50.3	540.3		BS	+20	+1320.3	
	1320				+12.0	91°40'	+38.4	+50.4			BS			
260	990		269°13'	-3°	12.0	91°30'	-25.9	-37.9		502.4		-19	-990	1,241,253 312,674
261	660		" "	"	12.0	91°	-11.5	-23.5		516.8		-12	-660	1,241,260 313,004
262	330		" "	"	12.8	-	-	-12.8		527.5		-6	-330	1,241,266 313,334
263	0				5.4	-	-	-5.4		534.9	X	0	0	1,241,272 313,664
264	330		88°2.3'	-3°	0.7	TH	+1.7	+1.0		541.3		+13	+330	1,241,285 313,994 horiz. correct, Y=+14' X=-61'
265	660		" "	"	4.4	89°	+11.5	+7.1		547.4		+26	+659	1,241,298 314,323
265	747		87°23'	-3°	4.3	89°	+13.0	+8.7		549.0		+38	+746	1,241,310 314,410 1,241,310-314,410 trail (north) (E1. 549)
266	990		88°2.3'	-3°	4.1	89°	+17.3	+13.2		553.5		+39	+989	1,241,311 314,653
267	1320		88°2.3'	-3°	6.6	89°	+23.0	+17.4			TP	+52-3	+1319	1,241,321 314,983
267	1320				1.7	89°10'	+19.2	+17.5		552.8	TP			
	990		275°19.5'-180°	-3°	+11.3	-	-	+11.3			BS	-87-3	+986	
	990				+6.4	BH	+5.0	+11.4	569.2		BS			
268	660		277°7'	-3°	11.5	-	-	-11.5		557.7		+78	-655	1,241,309 315,314
269	330		" "	"	8.8	-	-	-8.8		560.4		+39	-328	1,241,270 315,641
270	0				5.4	-	-	-5.4		563.8	X	0	0	1,241,231 315,967 trail (south)
271	330		95°36'	-3°	9.1	-	-	-9.1		560.1		-30	+329	1,241,201 316,298

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE		
1/29/80		G. Cotcamp		M. St. mac		6834		JHL GHL		6		25		
AREA		TOPO MAP		STATE		COUNTY		RANGE		PPM		PARTY MANAGER		
Georgia		Sparta NE		Georgia		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	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									569.2					
272	660		91° 39'	-3°	12.3	-		-12.3		556.9		-15	+660	1,241,216 316,629
273	980		86° 47.7'	-3°	9.7	-		-9.7		559.5	TP	+60 -3	+978	1,241,288 316,947 curve
273	980				14.6	TH	+4.9	-9.7			TP			
	328		315° 89' -180°	-3°	+1.1	-		+1.1			BS	-231 -3	+233	
	328				+2.8	TH	-1.6	+1.2	560.7		BS			
	340		320° 3.1'	-3°	1.5	-		-1.5		559.2		+260	-220	1,241,319 316,960 T-intersect.
274	0				5.4	-		-5.4		555.3	TP	0	0	1,241,054 317,180 paved road - intersect has been changed
275	330		120° 6'	-3°	9.2	-		-9.2		551.5		-167	+286	1,240,890 317,466
276	655		110° 32.5'	-3°	14.8	-		-14.8		545.9	TP	-227 -2	+615	1,240,825 317,795 curve
276	655				11.5	BH	-3.3	-14.8			TP			
	1650		277° 49.3' -180°	-3°	+12.4	90° 30'	+14.4	+26.8			BS	-216 -2	+1636	
	1650				+7.6	90° 40'	+19.2	+26.8	572.7		BS			
277	1320		277° 49.3'	-3°	7.9	91° -	+23.0	-30.9		541.8		+173	-1309	1,240,780 318,122
278	990		" "	"	13.2	91° -	-17.3	-30.5		542.2		+130	-981	1,240,737 318,450
279	660		" "	"	11.8	91° -	-11.5	-23.3		549.4		+86	-654	1,240,693 318,777
280	330		" "	"	13.9	-		-13.9		558.8		+43	-327	1,240,650 319,104
281	0		" "	"	5.4	-		-5.4		567.3	TP	0	0	1,240,607 319,431
282	330		101° 40'	-3°	1.4	-		-1.4		571.3		-65	+324	1,240,542 319,755
283	660		104° 11'	-3°	2.0	TH	+3.3	+1.3		574.0		-158	+691	1,240,499 320,072
284	990		" "	"	1.8	TH	+5.0	+3.2		575.9		-238	+961	1,240,369 320,392

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
1/30/80		C. Cotcamp		M. Stinas		6834		GHL		6	26				
AREA		TOPO MAP	STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER						
Georgia		Sparta NE	Georgia	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	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									572.7						
285	1320		103° 13'	-3°	3.1	TH	+6.6	+3.5		576.2		-295	+1287	1,240,312	320,718
286	1640		102° 24.2'	-3°	8.1	TH	+8.2	+0.1		572.8	TP	-344-2	+1604	1,240,261	321,035
286	1640				14.2	89°30'	+14.3	+0.1			TP				
	1318		274° 18' -180°	-3°	+8.5	-		+8.5			BS	-92-2	+1315		
	1318				+1.9	BH	+6.6	+8.5	581.3		BS				
287	990		272° 22'	-3°	11.9	-		-11.9		569.4		+36	-989	1,240,203	321,361
TP	670		271° 53.8'	-3°	14.6	-		-14.6		566.7		+19	-670	1,240,186	321,680
288	660		270° 36'	-3°	14.6	-		-14.6		566.7		+3	-660	1,240,170	321,690
289	330		"	"	9.7	-		-9.7		571.6		+2	-330	1,240,169	322,020
290	0				5.4	-		-5.4		575.9	TP	0	0	1,240,167	322,350
291	330		89° 31.7'	-3°	5.8	-		-5.8		575.5		+33	+328	1,240,200	322,678
292	660		" "	"	9.3	-		-9.3		572.0		+66	+657	1,240,233	323,007
293	990		" "	"	13.4	-		-13.4		567.9		+100	+985	1,240,267	323,335
294	1320		" "	"	9.9	BH	-6.6	-16.5		564.8		+133	+1313	1,240,300	323,663
295	1650		84° 31.7'	-3°	14.3	-		-14.3		567.0	TP	+166-2	+1642-2	1,240,331	323,990
295	1650				6.1	BH	-8.3	-14.4			TP				
	990		258° 38.2' -180°	-3°	+14.9	90°30'	+8.6	+23.5			BS	+200-2	+970-2		
	990				+12.1	90°40'	+11.5	+23.6	590.6		BS				
296	660		256° 22.1'	-3°	13.7	BH	-3.3	-17.0		573.6		-159	-641	1,240,370	324,317
297	330		254° 14'	-3°	11.0	-		-11.0		579.6		-91	-317	1,240,438	324,641

1,240,180 + 321,695
Twp (south) el. 567.0
↑
Sparta NE Quad.
Warrenton Quad.
↓

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE		
1/30/80		G. Cotcamp		M. Stimac		6834		rlw GHL		6		27		
AREA		TOPO MAP		STATE		COUNTY		RANGE		PPM		PARTY MANAGER		
Georgia		Warrenton		Georgia		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	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									590.6					
298	0				5.4	-		-5.4		585.2	π	0	0	1,240,529 324,958
299	330		69°21'	-3°	1.6	74	+1.7	+0.1		590.7		+118	+308	1,240,697 325,266
TP	520		66°6'	-3°	5.4	89°-	+9.1	+3.7		594.3		+213	+474	1,240,742 325,432 1,240,733 + 325,445 T-rod (south) 1.595
300	660		66°31'	-3°	5.3	89°-	+11.5	+6.2		596.8		+266	+604	1,249,795 325,562
301	986		65°-	-1	6.8	89°-	+17.2	+10.4		601.0	TP	+418	+893-2	1,240,997 325,849 curve
301	986				1.1	89°20'	+11.5	+10.4			TP		-	
	984		250°28' - 180°	-1°	+2.4	74	-4.9	-2.5			BS	+330	+927-2	curve
	984				+6.1	89°30'	-8.6	-2.5	598.5		BS			
302	660		259°20'	-1°	2.1	74	+3.3	+1.2		599.7		-179	-635	1,241,098 326,139
303	330		258°35'	-1°	2.0	-		-2.0		596.5		-66	-323	1,241,211 326,451
304	0				5.4	-		-5.4		593.1	π	0	0	1,241,277 326,774
305	330		89°28'	-1°	14.7	04	-1.7	-16.4		582.1		+4	+330	1,241,281 327,104
306	660		93°2'	-1°	12.4	92°-	-23.0	-35.4		563.1		-34	+659	1,241,251 ⁴³ 327,433
307	990		93°2'	-1°	13.7	92°20'	-40.3	-54.0			TP	-51	+989-3	1,241,226 327,760
307	990				14.8	92°16'	-39.1	-53.9		544.6	TP			
	2310		264°12' - 180°	-1°	+2.6	88°49'	-51.1	-48.5			BS	+237	+2298-3	
	2310				+5.3	88°40'	-53.7	-48.4	496.2		BS			
308	1980		263°34'	-1°	6.0	89°-	+34.6	+28.6		524.8		-225	-1967	1,241,238 328,088
309	1650		" "		14.5	89°-	+28.8	+14.3		510.5		-188	-1639	1,241,275 328,916
310	1320		" "		4.5	89°30'	+11.5	+7.0		503.2		-150	-1311	1,241,313 328,744

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO		PAGE			
1/30/80		G. Cotcamp		M. Stimac		6834		rlw GHL		6		28			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Georgia		Warrenton		Georgia		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	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									496.2						
311	990		263° 34'	-1°	1.3	TH	+5.0	+3.7		499.9		-113	-984	1,241,350	329,071
312	660		" "		2.8	TH	+3.3	+0.5		496.7		-75	-656	1,241,388	329,399
313	330		" "		2.4	-		-2.4		493.8		-38	-328	1,241,425	329,727
314	0				5.4	-		-5.4		490.8	π	0	0	1,241,463	330,055
314	56		78° 9'	-1°	5.8	-		-5.8		490.4		+12	+55	1,241,475	330,110
315	330		91° 47'	-1°	13.0	-		-13.0		483.2		-10	+330	1,241,453	330,385
316	660		95° 4'	-1°	11.8	91°	-11.5	-23.3		472.9		-57	+658	1,241,406	330,713
317	990		97° -	-1°	14.4	91°	-12.3	-31.7		464.5		-119	+98.9	1,241,344	331,038
318	1315		98° 24'	-1°	13.6	90° 40'	-15.3	-28.9		467.3		-190	+1301	1,241,273	331,356
319	1690		97° 36.6'	-1°	8.9	90° 20'	-9.5	-18.4		477.8	π	-214	+1626	1,241,248	331,681
319	1690				10.3	0H	-8.2	-18.5			π				S-curve
	990		265° 5.7' -180°		+14.5	90° 20'	+5.8	+20.3			BS	+86	-1	+986	
	990				+11.8	90° 30'	+8.6	+20.4	498.2		BS				
320	660		265° 5.7'		11.8	-		-11.8		486.4		-58	-657	1,241,275	332,010
321	330		" "		7.1	-		-7.1		491.1		-29	-329	1,241,304	332,338
322	0				5.4	-		-5.4		492.8	π	0	0	1,241,333	332,667
323	330		92° 52'		4.5	-		-4.5		493.7		-16	+330	1,241,317	332,997
324	660		94° 35'		1.1	-		-1.1		497.1		-52	+668	1,241,281	333,325
325	990		95° 38'		14.7	88° 50'	+20.2	+5.5		503.7		-95	+985	1,241,238	333,652

horiz. correct. y = -29, x = -14
1,241,475 + 330,110
trail (south)

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
2/1/80		G. Cotcamp		M. Stima		6834		rlw GHL		6		29			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Georgia		Warrenton		Georgia		Warren								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 X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									498.2						
326	1320	1319	94°40'	-1°	3.3	89°20'	+15.4	+12.1			TP	-105-1	+1315	1,241,227	333,982
326	1320				6.8	89°0'	+19.2	+12.4		510.6	TP				
	660		268°58.3'-180°	-1°	+6.8	-		+6.8	517.4		BS	+13-1	+660		
	660				+10.1	TH	-3.3	+6.8			BS				
<u>IL</u>	430		270°32'	-1°	2.9	-		-2.9		514.5	-	+3	-430	1,241,242	334,212
327	330		268°58.3'	-1°	3.5	-		-3.5		513.9	-	-6	-330	1,241,233	334,312
328	0				5.4	-		-5.4		512.0	X	0	0	1,241,239	334,642
329	330		96°18'	-1°	12.6	-		-12.6		504.8	-	-36	+328	1,241,203	334,970
330	660		96°18'	-1°	13.5	91°30'	-17.3	-30.8		486.6	TP	-71-1	+65673	1,241,167	335,301
330	660				14.7	91°24'	-16.1	-30.8			TP				
	990		275°31.3'-180°	-1°	+6.4	89°-	-17.3	-10.9			BS	-94-1	+98673		
	990				+0.8	89°20'	-11.5	-10.7	475.9		BS				
331	660		275°31.3'	-1°	2.9	-		-2.9		473.0	-	+62	-657	1,241,134	335,633
332	330				8.7	-		-8.7		467.2	-	+31	-329	1,241,103	335,961
333	0				5.4	-		-5.4		470.5	X	0	0	1,241,072	336,290
334	330		89°54.8'	-1°	4.7	88°-	+11.5	+6.8		482.7	-	+1	+330	1,241,073	336,620
335	660	659			8.8	87°-	+34.5	+25.7		501.6	-	+2	+659	1,241,074	336,949
336	990	989	89°54.8'	-1°	6.7	87°30'	+43.1	+36.4		512.3	TP	+3-1	+989+3	1,241,074	337,282
336	990				5.1	87°36'	+41.4	+36.3			TP				

1,241,235+337,196
Tid North (El. 516)

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO	PAGE			
2/1/80		G. Cotcamp		M. St. Mac		6887		GHL <i>relw</i>		6	30			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE	PPM	PARTY MANAGER		
Georgia		Warrenton		Georgia		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	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
336										512.3				
	660		270° 7.6' - 180°	-1°	+14.5	BH	+3.3	+17.8	530.1		BS	0-1	+660+3	
	660				+14.0	90° 20'	+3.8	+17.8		BS				
337	330		270° 7.6'	-1°	12.2	-		-12.2		517.9		0	-330	1,241,073 337,615
<u>11</u>	75		278° 56'	-1°	4.5	-		-4.5		525.6		+12	-74	1,241,085 337,871 1241090 337885 Trail (north) E1.527
338	0				5.4	-		-5.4		524.7	T	0	0	1,241,073 337,945
339	330		96° 44'	-1°	13.8	BH	-1.7	-15.5		514.6		-38	+329	1,241,035 338,273
340	660		" "		9.5	91°	-11.5	-21.0		509.1		-76	+656	1,240,997 338,601
341	990		96° 44'	-1°	0.5	91°	-17.3	-17.8		512.3	T	-114-1	+983+2	1,240,958 338,930
341	990				6.3	90° 40'	-11.5	-17.8			T			
	660		282° 58' - 180°	-1°	+13.4	BH	+3.3	+16.7	529.0		BS			
	660				+12.9	90° 20'	+3.8	+16.7		BS	-147-1	+643+2		
342	330		282° 58'	-1°	10.1	-		-10.1		518.9		+73	-322	1,240,883 339,253
343	0				5.4	-		-5.4		523.6	T	0	0	1,240,810 339,575
344	330		102° 14.3'	-1°	9.0	-		-9.0		520.0		-69	+323	1,240,741 339,898
345	660		" "		13.1	-		-13.1		515.9		-139	+645	1,240,671 340,220
346	995		102° 14.3'	-1°	14.9	BH	-5.0	-19.9		509.1	T	-209-1	+973+2	1,240,600 340,550 T.P. opposite station
346	995				14.1	90° 20'	-5.8	-19.9			T			
	663		306° 45' - 180°	-1°	+14.9	BH	+3.3	+18.2	527.4		BS			
	663				+6.7	91°	+11.6	+18.3		BS	-396-1	+532+1		
347	330		308° 39'	-1°	11.9	91°	-5.8	-17.7		509.7		+206	-258	1,240,409 340,825

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
2-1-80		G. COTCAMP		M. STIMAC		6834		GHL		6		31 of 31				
AREA		TOPO. MAP		STATE		COUNTY		RANGE		PPM		PARTY MANAGER				
GEORGIA		WARRENTON		GEORGIA		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 - LAT.	EAST + WEST - DEP.	COORDINATES Y X		REMARKS
									527.4							
348	0				5.9	-		-5.4		522.0	X	0	0	1,240,203	341,083	
349	330		139° 48.8'	-1°	1.1	-		-1.1		526.3		-252	+213	1,239,951	341,296	
350	660		139° 48.8'	-1°	9.5	-		-9.5		517.9	TP	-503.1	+427	1,239,699	341,510	
350	660				12.8	TH	+3.3	-9.5			TP					
	660		321° 10' - 180°	-1°	+1.5	89° 20'	-7.7	-6.2	511.7		BS					
	660				+5.9	89° -	-11.5	-6.1			BS	-513.1	+415			
351	330		321° 10'	-1°	2.6	-		-2.6		509.1		+257	-207	1,239,442	341,718	
352	0				5.9	-		-5.4		506.3	X	0	0	1,239,185	341,925	horiz. correct, Y = -14' X = +19'
353	330		137° 13'	-1°	5.6	-		-5.6		506.1		-242	+225	1,238,943	342,150	
	500		139° 30'	-1°	1.7	-		-1.7		510.0		-380	+325	1,238,805	342,250	1,238,805 + 342,250 T-intersect.
TP	680		213° 3'		7.9	89° -	+11.9	+4.5		516.2	TP					
TP	680				5.9	89° 10'	+9.9	+4.5			TP					
	1710		66° 35' + 180°		+4.6	89° 30'	-14.9	-10.3	505.9		BS					vertical traverse
	1710				+9.7	89° 20'	-19.9	-10.2			BS					from 352 to
X	0				5.9	-		-5.4		500.5	X					T-rod (west)
TP	1720	1719	245° 17.8'		13.9	91° 24'	-42.0	-55.9		450.0	TP					↓
TP	1720				10.8	91° 30'	-45.0	-55.8			TP					
	199		46° 39' + 180°		+4.9	-		+4.9	454.9		BS					
X	0				5.9	-		-5.4		449.5	X					
	222		211° 27'		5.6	-		-5.6		449.3	X					T-RO (E1.449)