

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc. Client-COCORP

DATE 4/23/80	INSTRUMENT MAN G. Cotcamp	ROD MAN M. Marino	PARTY NUMBER 6834	NOTES CHECKED BY rlw	LINE # 8	PAGE 1 of 80
AREA Georgia	TOPO MAP Birdsville	STATE GEORGIA	COUNTY Jenkins	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 TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
IF				+1°18'						189.8			1,008,270	515,050	
	760		277°18'-180°	-1.3°	+4.5	-		+4.5	194.3		BS	-79-1	+756-2		T-intersect. el. 189.8 R
	760				+8.3	TH	-3.8	+4.5			BS				
1	660		276°53'	-1.3°	5.9	-		-5.9		188.4		+64	-657	1,008,254	515,147
2	330		" "	"	4.3	-		-4.3		190.0		+32	-328	1,008,222	515,476
3	0				5.4	-		-5.4		188.9	TP	0	0	1,008,190	515,804
4	325		125°31'	-1.3°	4.2	-		-4.2		190.1		-183	+269	1,008,007	516,073
5	642		136°5.3'	-1.3°	10.2	89°20'	+7.5	-2.7		191.6	TP	-452-1	+456-2	1,007,737	516,258 curve
5	642				12.0	89°10'	+9.3	-2.7			TP				
	656		322°28.7'-180°	-1.3°	+6.1	-		+6.1			BS	-511-1	+411-2		curve
	656				+9.4	TH	-3.3	+6.1	197.7		BS				
6	330		317°9'	-1.3°	7.3	-		-7.3		190.4		+237	-230	1,007,462	516,437
7	0				5.4	-		-5.4		192.3	TP	0	0	1,007,225	516,667
8	330		117°47.4'	-1.3°	0.7	TH	+1.7	+1.0		198.7		-147	+295	1,007,078	516,962
9	660		" "	"	7.4	89°-	+11.5	+4.1		201.8		-294	+591	1,006,931	517,258
10	990		117°47.4'	-1.3°	13.2	89°-	+17.3	+4.1		201.8	TP	-442-1	+886-2	1,006,782	517,557
10	990				4.5	89°30'	+8.6	+4.1			TP				
	1320		297°3.4'-180°	-1.3°	+14.7	91°10'	+26.9	+4.6	243.4		BS	-574-1	+1189-2		
	1320				+10.8	91°20'	+30.7	+4.5			BS				
11	990		297°3.4'	-1.3°	13.1	91°30'	-25.9	-39.0		204.4		+430	-892	1,006,637	517,846
12	660		" "	"	14.1	91°30'	-17.3	-31.4		212.0		+287	-594	1,006,494	518,144

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DATE 4/23/80	INSTRUMENT MAN G. Cotcamp	ROD MAN M. Marino	PARTY NUMBER 6834	NOTES CHECKED BY [Signature]	LINE NO. 8	PAGE 2	
AREA Georgia	TOPO MAP Birdsville	STATE Georgia	COUNTY Jenkins	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
									243.4						
13	330		297° 34'	-1.3°	14.6	BH	-1.7	-16.3		227.1		+143	-297	1,006,350	518,441
14	0				5.4	-		-5.4		238.0	X	0	0	1,006,207	518,738
15	330		116° -	-1.3°	8.2	-		-8.2		235.2		-138	+300	1,006,069	519,038
16	660		" "	"	12.2	91°	-11.5	-23.7		219.7		-276	+600	1,005,931	519,338
17	990		" "	"	14.7	91°	-17.3	-32.0		211.4		-414	+899	1,005,793	519,637
18	1320		" "	"	6.8	91°	-23.0	-29.8		213.6		-552	+1199	1,005,655	519,937
19	1650		" "	"	3.7	90°40'	-19.2	-22.9		220.5		-689	+1499	1,005,518	520,237
20	1980		" "	"	8.4	BH	-9.9	-18.3		225.1		-827	+1799	1,005,380	520,537
21	2310		116° -	-1.3°	13.9	-		-13.9		229.5	TP	-965-1	+2099	1,005,241	520,837
21	2310				2.3	BH	-11.6	-13.9			TP				
	1650		294°36' -180°	-1.3°	+9.7	88°20'	-48.0	-38.3			BS	-653-1	+1515		
	1650				+4.9	88°30'	+43.2	-38.3	191.2		BS				
22	1320		294°36.1'	-1.3°	9.2	88°30'	+34.5	+25.3		216.5		+522	-1212	1,005,109	521,140
22	1120		294°34'	-1.3°	2.6	89°	+19.5	+16.9		208.1		+442	-1029	1,005,029	521,323
23	990		293°48'	-1.3°	8.7	89°	+17.3	+13.6		204.8		+379	-915	1,004,966	521,437
24	660		" "	"	6.3	89°	+11.5	+5.2		196.4		+253	-610	1,004,840	521,742
25	330		" "	"	1.3	-		-1.3		189.9		+126	-305	1,004,713	522,047
26	0				5.4	-		-5.4		185.8	X	0	0	1,004,587	522,352
27	330		103°52'	-1.1°	1.1	-		-1.1		190.1		-73	+322	1,004,514	522,674
28	660		" "	"	2.0	TH	+3.3	+1.3		192.5		-146	+644	1,004,441	522,996

1,005,030 + 521,320
T-rd (north)

SURVEY NOTES-HIGH RESOLUTION DATA

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DATE 4/23/80	INSTRUMENT MAN G. Cotcamp	ROD MAN M. Marino	PARTY NUMBER 6834	NOTES CHECKED BY rlw	LINE NO. 8	PAGE 3
AREA Georgia	TOPO MAP Birdsville	STATE Georgia	COUNTY Jenkins	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
									191.2						
29	990		103°52'	-1.1°	3.3	TH	+5.0	+1.7		192.9		-219	+966	1,004,369	523,318
30	1320		" "	"	14.1	89°-	+23.0	+8.9		200.1		-292	+1287	1,004,295	523,639
31	1650		" "	"	7.8	89°-	+28.8	+21.0		212.2		-365	+1609	1,004,222	523,961
32	1980		103°20.2'	-1.1°	13.0	89°-	+34.6	+21.4		212.8	TP	-420.1	+1935	1,004,166	524,287
32	1980				6.1	89°12'	+27.6	+21.5			TP				
	330		288°1' -180°	-1.1°	+1.5	-		+1.5			BS	-96.1	+316		
	330				+3.2	TH	-1.7	+1.5	214.3		BS				
33	0				5.4	-		-5.4		208.9	X	0	0	1,004,069	524,603
34	320		151°47'	-1.1°	11.8	-		-11.8		202.5	TP	-279.1	+157	1,003,789	524,760
34	320				13.4	TH	+1.6	-11.8			TP				curve
	316		306°53.7' -180°	-1.1°	+0.4	-		+0.4			BS	-185	+256		
	316				+2.0	TH	-1.6	+0.4	202.9		BS				curve
35	0				5.4	-		-5.4		197.5	X	0	0	1,003,604	525,016
36	330		114°21.4'	-1.1°	3.2	89°-	+5.8	+2.6		205.5		-130	+303	1,003,474	525,319
37	660		114°21.4'	-1.1°	9.9	89°30'	+5.8	-4.1		198.8	TP	-261	+606	1,003,343	525,622
37	660				11.8	89°20'	+7.7	-4.1			TP				
	1320		293°9.8' -180°	-1.1°	+3.7	91°-	+23.0	+26.7	26.8		BS	-496	+1223		
	1320				+7.7	90°50'	+19.2	+26.9	225.6		BS				
38	990		292°19'	-1.1°	7.8	91°-	-17.3	-25.1		200.5		+358	-923	1,003,205	525,922
39	660		" "	"	7.7	91°-	-11.5	-19.2		206.4		+239	-615	1,003,086	526,230

SURVEY NOTES-HIGH RESOLUTION DATA

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4/23/80		G. Cotcamp		M. Marino		6834		relw		8		4			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Georgia		Birdsville		Georgia		Jenkins								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
									225.6						
40	330		292°19'	-1.1°	121	-		-12.1		213.5		+119	-308	1,002,966	526,537
41	0				54	-		-5.4		220.2	X	0	0	1,002,847	526,895
42	330		100°22.3'	-1.1°	28	89°-	+5.8	+3.0		228.6		-53	+326	1,002,794	527,171
42	390		98°45'	-1.1°	09	89°-	+6.8	+5.9		231.5		-52	+387	1,002,795	527,232
43	660		100°22.3'	-1.1°	5.7	89°-	+11.5	+5.8		231.4	TP	-106	+651	1,002,741	527,496
43	660				7.6	88°50'	+13.4	+5.8			TP				
	1650		290°32'-180°	-1.1°	+6.4	89°26'	-16.3	-9.9	221.5		BS	-270	+1628		
	1650				+5.4	89°28'	-15.4	-10.0			BS				
44	1320		280°32'	-1.1°	6.3	89°30'	+11.5	+5.2		226.7		+216	-1302	1,002,687	527,822
45	990		" "	"	5.4	-		-5.4		216.1		+162	-977	1,002,633	528,147
46	660		" "	"	10.7	-		-10.7		210.8		+108	-651	1,002,579	528,473
47	330		" "	"	10.3	-		-10.3		211.2		+54	-326	1,002,525	528,799
48	0				5.4	-		-5.4		216.1	X	0	0	1,002,471	529,124
49	330		100°14.7'	-1.1°	9.2	-		-9.2		212.3		-52	+326	1,002,417	529,450
50	660		" "	"	9.6	-		-9.6		211.9		-105	+652	1,002,364	529,776
51	990		" "	"	14.9	-		-14.9		206.6		-157	+977	1,002,314	530,101
52	1320		100°14.7'	-1.1°	12.5	BH	-6.6	-19.1		202.4	TP	-210	+1303	1,002,261	530,427
52	1320				7.7	90°30'	-11.5	-19.2			TP				
	990		251°39'-180°	-1.1°	+0.3	90°50'	+14.4	+14.7	214.6		BS	+330	+934		
	990				+3.0	90°40'	+11.5	+14.5	212.0		BS				

1,002,800 + 527,225
4-Way Intersect

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DATE 4/23/80	INSTRUMENT MAN G. Cotcamp	ROD MAN M. Marino	PARTY NUMBER 6834	NOTES CHECKED BY rldw	LINE NO. 8	PAGE 5
AREA Georgia	TOPO MAP Birdsville	STATE Georgia	COUNTY Jenkins	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
									217.0						
53	660		251°39'	-1.1°	14.8	BH	-3.3	-18.1		199.9		-220	-622	1,002,371	530,739
54	330		" "	"	11.4	-		-11.4		205.6		-110	-311	1,002,481	531,050
55	0				5.4	-		-5.4		211.6	T	0	0	1,002,571	531,361
56	330		100°0.7'	-1.1°	2.6	89°-	+5.8	+3.2		220.2		-51	+326	1,002,540	531,687
57	660		" "	"	6.2	88°-	+23.0	+16.8		233.8		-102	+652	1,002,499	532,013
58	990		" "	"	3.8	87°40'	+40.3	+36.5		253.5		-153	+978	1,002,438	532,339
59	1320		100°0.7'	-1.1°	9.8	87°40'	+53.7	+43.9		260.9	TP	-204	+1304	1,002,387	532,665
59	1320				6.0	87°50'	+49.9	+43.9			TP				
	660		279°14.6'-180°	-1.1°	+2.4	-		+2.4	263.3		BS	-93	+653		
	660				+5.7	TH	-3.3	+2.4			BS				
60	330		279°14.6'	-1.1°	0.3	-		-0.3		263.0		+47	-327	1,002,341	532,991
61	0				5.4	-		-5.4		257.9	T	0	0	1,002,244	533,319
62	330		100°5'	-1.1°	14.3	BH	-1.7	-16.0		247.3		-52	+326	1,002,242	533,644
63	660		" "	"	13.0	BH	-3.3	-16.3		247.0		-103	+652	1,002,191	533,970
64	990		" "	"	9.7	-		-9.7		253.6		-155	+978	1,002,139	534,296
65	1320		100°5'	-1.1°	3.5	-		-3.5	266.6	259.7	TP	-206	+1304	1,002,088	534,622
65	1320				6.0	89°54'	+2.3	-3.7			TP				
	217		282°19'-180°	-1.1°	+11.8	-		+11.8	271.5		BS	-42	+213		
	217				+10.7	BH	+1.1	+11.8			BS				
✓	0				5.5	-		-5.5		266.0	T	0	0	1,002,046	534,835

1,002,050 + 534,850
intersect. of 266

SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

DATE 4/23/80	INSTRUMENT MAN G. Cotcamp	ROD MAN M. Marino	PARTY NUMBER 6834	NOTES CHECKED BY [Signature]	LINE NO. 8	PAGE 6	
AREA Georgia	TOPO MAP Birdsville/Garfield	STATE Georgia	COUNTY Jenkins	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	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS	
												LAT.	DEP.	Y	X				
									271.5										
66	132		154°15'	-1.1°	2.0	-		-2.0		269.5		-118	+60	1,001,928	534,895				
67	462		148°52'	-1.1°	0.3	89°0'	+8.1	+7.8		279.3	TP	-391-3	+246-2	1,001,652	535,079			split sta. - sharp curve	
67	462				4.4	88°30'	+12.1	+7.7			TP								
	1320		306°56'-180°	-1.1°	+14.5	89°2'	+22.3	-7.8			BS	-773-3	+1070						
	1320				+13.0	89°6'	-20.7	-7.7	271.6		BS								
68	990		306°56'	-1.1°	7.1	89°0'	+17.3	+10.2		281.8		+580	-803	1,001,456	535,346				
69	660		" "	"	2.7	89°0'	+11.5	+8.8		280.4		+386	-535	1,001,262	535,614				
70	330		" "	"	1.7	74	+1.7	-0.0		271.6		+193	-268	1,001,069	535,881				
71	0				5.4	-		-5.4		266.2	X	0	0	1,000,876	536,149			horiz correct. y=-19' x=-12'	
72	330		149°12.5'	-1.1°	4.4	-		-4.4		267.2		-280	+174	1,000,596	536,323				
72	551		149°12.5'	-1.1°	4.8	-		-4.8		266.8	TP	-468-3	+291	1,000,405	536,440			1,000,405+536,440 4-Way Intersect.	
72	551				2.0	BH	-2.8	-4.8			TP								
	769		338°5.3'-180°	-1.1°	+9.5	-		+9.5			BS	-708+2	+301-2					split sta. - curve	
	769				+13.4	74	-3.8	+9.6	276.4		BS								
73	660		337° -	-1.1°	13.2	-		-13.2		263.2		+602	-269	1,000,301	536,470			Birdsville Quad	
74	330		" "	"	8.0	-		-8.0		268.4		+301	-135	1,000,000	536,604			Garfield Quad.	
75	0				5.4	-		-5.4		271.0	X	0	0	999,699	536,739				
76	330		151°15'	-1.1°	12.6	-		-12.6		263.8		-286	+164	999,413	536,903				
77	660		" "	"	13.1	BH	-3.3	-16.4		260.0		-572	+329	999,127	537,068				

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Geosource Inc.

DATE 4/23/80	INSTRUMENT MAN G. Cotcamp	ROD MAN M. Marino	PARTY NUMBER 6834	NOTES CHECKED BY rlw	LINE NO. 8	PAGE 7
AREA Georgia	TOPO MAP Garfield	STATE Georgia	COUNTY Jenkins	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.	
									276.4					
78	990		150°56'	-1.1°	8.9	BH	-5.0	-13.97			TP	-856+2	+497-2	998,845 537,234
78	990				5.2	90°30'	-8.6	-13.85		262.6	TP			
	1320		321°14.5'-180°	-1.1°	+8.3	89°-	-23.0	-14.72			BS	-1013+2	+846-2	
	1320				+4.5	89°10'	-19.2	-14.75	247.9		BS			
79	990		321°14.5'	-1.1°	8.4	-		-8.4		239.5		+760	-634	998,594 537,444
80	660		" "	"	7.5	-		-7.5		240.4		+507	-423	998,341 537,655
81	330		" "	"	4.3	-		-4.3		243.6		+253	-211	998,087 537,867
82	0				5.4	-		-5.4		242.5	X	0	0	997,834 538,078 set-up opposite Sta.
83	330		167°38'	-1.1°	12.1	91°-	-5.8	-17.9		230.0		-321	+77	997,513 538,155
84	660		167°38'	-1.1°	3.8	91°-	-11.5	-15.32		232.6	TP	-692+2	+159-2	997,197 538,230 T.A. opposite Sta.
84	660				3.0	91°4'	-12.3	-15.35			TP			
	667		354°18'-180°	-1.1°	+6.3	92°-	+23.3	+29.62			BS	-662+2	+79-2	
	667				+10.2	91°40'	+19.4	+29.65	262.2		BS			
85	330		350°43'	-1.1°	12.5	-		-12.5		249.7		+325	-59	996,859 538,248
86	0				5.4	-		-5.4		256.8	X	0	0	996,534 538,307
87	330		153°48'	-1.1°	0.2	TH	+1.7	+1.5		263.7		-293	+151	996,241 538,458
88	660		150°58'	-1.1°	3.2	TH	+3.3	+0.12		262.3	TP	-571+2	+331-3	995,965 538,635
88	660				5.7	89°30'	+5.8	+0.15			TP			
	988		321°12.6'-180°	-1.1°	+5.3	-		+5.32			BS	-758+2	+634-3	
	988				+10.2	TH	-4.9	+5.35	267.6		BS			

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 4/23/80	INSTRUMENT MAN G. Cotcamp	ROD MAN M. Marino	PARTY NUMBER 6834	NOTES CHECKED BY rlw	LINE NO. 8	PAGE 8
AREA Georgia	TOPO MAP Garfield	STATE Georgia	COUNTY Jenkins	RANGE	PPM	PARTY MANAGER 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 TP	NORTH+ SOUTH - EAST+ WEST -		COORDINATES		REMARKS	
												LAT.	DEP.	Y	X		
									267.6								
89	660		320°27'	-1.1°	9.4	-		-9.4		258.2		+501	-430	995,710	538,836		
90	330		"	"	5.9	-		-5.9		261.7		+250	-215	995,459	539,051	first sta. on pavement	
91	151		324°10'	-1.1°	4.7	-		-4.7		262.9		+121	-91	995,330	539,175	995,335+539,165' 1-rod SW	
91	0				5.4	-		-5.4		262.2	TP	0	0	995,209	539,244	unable to locate B.M.	
92	330		138°36'	-1.1°	8.9	-		-8.9		258.7		-243	+223	994,964	539,489		
93	660		136°46'	-1.1°	12.4	-		-12.4		255.2		-472	+461	994,737	539,727		
94	988		134°36.2	-1.1°	10.5	BH	-4.9	-15.4		252.2	TP	-680+3	+717-3	994,532	539,980	curve	
94	988				9.7	90°20'	5.8	-15.5			TP						
	2310		309°6.6'-180°	-9°	+14.9	-		+14.9			BS	-1265+3	+1933-3				
	2310				+3.4	BH	+11.6	+15.0	267.2		BS						
95	1980		309°6.6'	-9°	14.0	-		-14.0		253.2		+1084	-1657	994,354	540,253		
96	1650		"	"	11.1	-		-11.1		256.1		+904	-1381	994,174	540,529		
97	1320		"	"	14.2	-		-14.2		253.0		+723	-1104	993,993	540,806		
98	990		"	"	13.9	BH	-5.0	-18.9		248.3		+542	-828	993,812	541,082		
99	660		"	"	13.8	BH	-3.3	-17.1		250.1		+361	-552	993,631	541,358		
100	330		"	"	10.3	-		-10.3		256.9		+181	-276	993,451	541,634		
101	0				5.4	-		-5.4		261.8	TP	0	0	993,270	541,910	last sta. on pavement	
101	334		122°4'	-9°	5.9	-		-5.9		261.3		-173	+286	993,097	542,196	993,085+542,195 T-intersect.	
102	330		126°52'	-9°	7.4	-		-7.4			TP	-194+3	+267-3	993,079	542,174		
102	330				9.0	TH	-1.7	-7.3	?	259.9	TP						

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
4/23/80		G. Cotcamp		M. Marino		6834		w. l. d.?		8		9				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
Georgia		Garfield		Georgia		Jenkins								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
102										259.9						
	990		341°18' - 180°	-9°	+1.3	88°50'	-20.2	-18.9			BS	-933	+332			
	990				+4.2	88°40'	-23.0	-18.8	241.1		BS					
103	660		341°18'	-9°	2.7	89°-	+11.5	+8.8		249.9		+622	-221	992,768	542,285	
104	330		" "	"	0.3	-		-0.3		240.8		+311	-111	992,457	542,395	
105	0				5.4	-		-5.4		235.7	π	0	0	992,146	542,506	
106	330		164°37'	-9°	1.9	-		-1.9		239.2		-317	+93	991,829	542,599	
TP	488		160°56.5'	-9°	1.1	TH	+2.4	+1.3			TP	-459+3	+167-3	991,690	542,670	split sta. - curve
TP	488				2.9	89°30'	+4.3	+1.4		242.5	TP					
	496		304°53' - 180°	-9°	+12.0	-		+12.0			BS	-277+3	+411-3			
	496				+9.5	BH	+2.5	+12.0	254.5		BS				Butts	
107	330		304°53'	-9°	8.0	-		-8.0		246.5		+184	-274	991,600	542,804	
IF	103		301°22'	-9°	3.4	-		-3.4		251.1		+52	-89	991,468	542,989	991,470 + 542,985 4-Way Intersect.
108	0				5.4	-		-5.4		249.1	π	0	0	991,414	543,074	
109	331		123°5.7'	-9°	2.7	-		-2.7		251.8	TP	-176+3	+280-3	991,243	543,355	
109	331				4.4	TH	+1.7	-2.7			TP				T.P. opposite sta.	
	330		321°10' - 180°	-9°	+12.6	-		+12.6			BS	-254+3	+211-3			
	330				+10.9	BH	+1.7	+12.6	264.4		BS					
110	0				5.4	-		-5.4		259.0	π	0	0	990,992	543,563	
111	330		162° 9.3'	-9°	4.9	91°-	-5.8	+10.7		253.7		-312	+106	990,680	543,669	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY			LINE NO.		PAGE		
4/23/80		G. Cotcamp		M. Marino		6834		value			8		10		
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Georgia		Garfield		Georgia		Jenkins								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
									264.4						
112	660		162° 9.3'	-9°	14.6	BH	-3.3	-17.9			TP	-625+3	+212-3	990,370	543,772
112	660				6.3	91°	-11.5	-17.8		246.6	TP				
	990		342° 29.3' -180°	-9°	+8.2	-		+8.2			BS	-939+3	+313-3		
	990				+3.2	BH	+5.0	+8.2	254.8		BS				
113	660		342° 29.3'	-9°	9.3	-		-9.3		245.5		+626	-208	990,060	543,874
114	330		" "	"	3.1	91°	-5.8	-8.9		245.9		+313	-104	989,747	543,978
115	0				5.4	-		-5.4		249.4	T	0	0	989,434	544,082
116	330		155° 22.3'	-9°	14.6	BH	-1.7	-16.3		238.5		-298	+142	989,134	544,224
117	660		" "	"	11.9	91° 30'	-17.3	-29.2		225.6		-596	+284	988,838	544,364
118	1000		155° 22.3'	-7°	9.6	91° 30'	-26.1	-35.8		219.0	TP	-904+3	+428-3	988,533	544,507
118	1000				6.7	91° 40'	-29.1	-35.8			TP				
	668		293° 18' -180°	-7°	+8.0	88° 30'	-17.5	-9.5			BS	-257+3	+617-3		
	668				+9.9	88° 20'	-19.4	-9.5	209.5		BS				
119	330		293° 18'	-7°	6.0	88°	11.5	+5.5		215.0		+127	-305	988,406	544,816
120	0				5.4	-		-5.4		204.1	T	0	0	988,279	545,121
BM	82		126° 25'	-7°	2.9	91°	-1.4	-4.3		205.2		-48	+67	988,231	545,188
121	330		110° 55.3'	-7°	6.0	92° 40'	-15.3	-21.3		188.2		-114	+310	988,145	545,431
122	660		" "	"	6.3	92°	-23.0	-24.3		180.2		-228	+619	988,061	545,740
123	990		110° 55.3'	-7°	2.7	92°	34.5	-37.2		172.3	TP	-342+3	+929-3	987,940	546,047
123	990				5.6	91° 50'	31.7	-37.3			TP				

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SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 4/23/80	INSTRUMENT MAN G. Costcamp	ROD MAN M. Marino	PARTY NUMBER 6839	NOTES CHECKED BY J. Law	LINE NO. 8	PAGE 11
AREA Georgia	TOPO MAP Garfield	STATE Georgia	COUNTY Jenkins	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.	
123							✓			172.3				
	990		302° 22.8' - 180°	-7°	+6.5	-		+6.5			BS	-520+3	+892-3	
	990				+11.5	74	-5.0	+6.5	178.8		BS			
124	660		302° 22.8'	-7°	8.3	-		-8.3		170.5		+397	-562	987,770 546,324 under construction
125	330		" "	"	7.1	-		-7.1		171.7		+173	-281	987,596 546,605 bridge
126	0				5.4	-		-5.4		173.4	X	0	0	987,423 546,886
127	330		121° 6'	-7°	7.4	-		-7.4		171.4		-167	+285	987,256 547,171
128	660		" "	"	8.0	-		-8.0		170.8		-334	+569	987,089 547,155
129	990		" "	"	8.3	-		-8.3		170.5		-501	+854	986,922 547,740
130	1320		" "	"	0.9	-		-0.9		177.9		-668	+1139	986,755 548,025
131	1650		121° 6'	-7°	3.2	74	+8.3	+5.1	185.0	183.8	TP	-835+5	+1423-4	986,593 548,305
131	1650				4.7	89° 40'	+9.6	+4.9			TP			
	1980		300° 51.4' - 180°	-7°	+9.1	74	-9.9	-0.8			BS	-995+5	+1712-5	
	1980				+5.0	89° 50'	-5.8	-0.8	183.0		BS			
132	1650		300° 51.4'	-7°	5.8	-		-5.8		177.2		+829	-1427	986,432 548,585
133	1320		" "	"	3.7	-		-3.7		179.3		+663	-1141	986,266 548,871
134	990		" "	"	3.9	-		-3.9		179.1		+497	-856	986,100 549,154
135	660		" "	"	7.3	-		-7.3		175.7		+332	-571	985,935 549,441
136	330		" "	"	5.6	-		-5.6		177.4		+166	-285	985,769 549,727
137	0				5.9	-		-5.4		177.6	X	0	0	985,603 550,012
138	330		120° 55'	-7°	5.5	-		-5.5		177.5		-166	+285	985,427 550,297

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
4/23/80		G. Cotcamp		M. Marino		6834		G.W.C. <i>etc</i>		8	12					
AREA		TOPO MAP	STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
Georgia		Garfield/Four Points	Georgia	Jenkins					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
									183.0							
139	660		120°55'	-7°	3.3	-		-33		179.7		-332	+570	985,271	550,582	horiz. correct. y=+62' x=-64'
140	990		" "	"	4.9	TH	+5.0	+0.1		183.1		-498	+856	985,105	550,867	989,955 + 551,145
$\frac{JK}{TF}$	1305		120°29'	-7°	1.7	TH	+6.5	+4.8		187.8		-698	+1133	984,953	551,145	4-Way Intersect.
141	1330		120°55'	-9°	6.9	89°30'	+11.6	+4.7			TP	-665+1	+1152+3	984,939	551,167	
141	1330				1.9	TH	+6.7	+4.8		187.8	TP					
	1310		294°54'5"-180°	-9°	+7.9	TH	-6.6	+1.3	+189.1		BS	-533+1	+1197+3			
	1310				7.5	89°41'	-6.1	+11.5			BS					↑
142	990		294°54.5'	-9°	4.7	TH	+5.0	+0.3		189.4		+403	-904	984,810	551,463	Garfield Quad.
143	660		" "	"	7.0	-		-7.0		183.1		+269	-603	984,676	551,764	Four Points Quad.
144	330		" "	"	7.0	-		-7.0		182.1		+134	-301	984,591	552,066	↓
145	0				5.4	-		-5.4		183.7	X	0	0	984,407	552,367	
146	330		115°36'	-9°	12.8	-		-12.8		176.3		-138	+300	984,269	552,667	
147	660		" "	"	13.8	-		-13.8		175.3		-276	+600	984,131	552,967	
148	990		" "	"	4.9	-		-4.9		184.2		-414	+899	983,993	553,266	
149	1320		" "	"	10.8	89°12'	+15.1	+7.6		196.7		-552	+1199	983,855	553,566	
150	1650		115°36'	-9°	8.7	89°12'	+24.0	+14.3		203.4	TP	-689+1	+1499+3	983,719	553,869	
150	1650				11.7	89°6'	+25.9	+14.2			TP					
	1320		295°1'.1"-180°	-9°	+8.2	91°16'	+39.2	+37.4	+375		BS	-539	+1205+3			
	1320				+10.0	91°12'	+27.6	+37.6	240.9		BS					

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
4/24/80		MARINO		LITZINGER		6831		G.W.C.		8	13					
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER						
GA		Four Points		GA	Jenkins					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	
151	990		295° 1.1	-1.0	10.1	91°	-17.3	-27.4	240.9	213.5		+405	-904	983,585	554,173	
152	660		" "	"	11.9	91°	-11.5	-23.4		217.5		+270	-602	983,450	554,425	
153	330		" "	"	11.7	91°	-5.8	-17.5		223.4		+135	-301	983,315	554,776	
154	0				B.A	—		-5.4		235.5	X	0	0	983,180	555,077	
155	330		114° 26.2	-1.0	3.0	—		-3.0		237.9		-130	+303	983,050	555,380	
156	660		114° 20.2	-1.0	2.7	—		-2.72		238.2	TP	-260	+606+1	983,920	555,684	Rd. Right
156	666				5.9	TH	+3.3	-2.63			TP					
	325		316° 33.1 - 180°	-1.0	+4.3	—		+4.32			BS	-232	+228			
	325				+5.9	TH	-1.6	+4.35	242.5		BS					
157	0				5.4	—		-5.4		237.1	X	0	0	982,688	555,912	
158	330		149° 47.3	-1.0	14.2	—		-14.2		228.3		-282	+171	982,406	556,083	
159	660		149° 47.3'	-1.0	13.2	91° 10'	-13.4	-26.62		215.9	TP	-564	+343	982,124	556,285	
159	660				14.3	91° 4'	-12.3	-26.65			TP					
	1326		329° 4'.6 - 180°	-1.0	+12.1	88° 28'	-35.3	-23.22	23.1		BS	-1119	+700			
	1320				+9.2	88° 36'	-32.2	-23.05	192.8		BS					
160	996		329° 4.6'	-1.0	8.4	89° -	+17.3	+8.9		2017		+839	-525	981,544	556,430	
161	660		" "	"	9.1	89° -	+11.5	+2.4		195.2		+560	-350	981,565	556,605	
162	330		" "	"	7.2	89° -	+5.8	-1.4		191.4		+280	-175	981,285	556,780	
162	292		330° 23'.8	-1.0	6.6	89° -	+5.1	-1.5		191.3		+251	-149	981,256	556,806	981,280 + 556,800 Trail (me) el. 191.
163	0				5.4	—		-5.4		187.4	X	0	0	981,005	556,955	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 4-24-80	INSTRUMENT MAN MARINO	ROD MAN LITZINGER	PARTY NUMBER 6834	NOTES CHECKED BY Gwl. Rllw	LINE NO. 8	PAGE 14 14
AREA GA.	TOPO MAP Four Points	STATE GA.	COUNTY JENKINS	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	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS
												LAT.	DEP.	Y	X			
164	330		148° 24.0	-1.1°	9.6	-		-9.6	172.8	183.2		-278	+178	980,727	557,133			
165	660		" "	"	14.0	-		-14.0		178.8		-555	+357	980,450	557,312			
166	990		148° 24'	-1.1°	14.1	-		-14.1			TP	-833	+535	980,172	557,490			
166	990				9.2	BH	-5.0	-14.2		178.6	TP							
	653		301° 0'.4-180	-1.1°	+10.2	89° 42'	-3.4	+6.8			BS	-326	+566				curve	
	653		" "		+9.1	89° 48'	-2.3	+6.8	185.4		BS							
167	330		296° 50'.2	-1.1°	7.4	-		-7.4		178.0		+143	-297	979,989	557,759			
168	0				5.4	-		-5.4		180.0	X	0	0	979,846	558,056			
169	323		114° 28'.2	-1.1°	2.8	-		-2.8		182.6		-128	+297	979,718	558,353		979,700 + 558,385 trail (north) cl. 182.	
169	330		116° 32'.5	-1.1°	2.8	-		-2.8		182.6		-142	+298	979,704	558,354			
170	660		" "	"	1.5	-		-1.5		183.9		-284	+596	979,562	558,652			
171	980		116° 32.5'	-1.1°	4.8	-		-4.8		180.6	TP	-421	+885	979,425	558,941		curve	
171	980				9.7	TH	+4.9	-4.8			TP							
	1315		296° 53'.5-180	-1.3°	+4.8	89° 14'	-17.6	-12.8			BS	-568	+1186				curve	
	1315				+6.3	89° 10'	-19.1	-12.8	167.8		BS							
172	990		296° 53.5'	-1.3°	9.7	89° -	+17.3	+7.6		175.4		+428	-893	979,285	559,234			
173	660		" "	"	12.5	89° -	+11.5	-1.0		166.8		+285	-595	979,142	559,532			
174	330		" "	"	10.0	89° -	+5.8	-4.2		167.6		+143	-298	979,000	559,829			
175	0				5.4	-		-5.4		162.4	X	0	0	978,857	560,127			
176	330		116° 29'.3	-1.3°	6.5	-		-6.5		161.3		-140	+299	978,717	560,426			

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 4-24-80	INSTRUMENT MAN MARTINO	ROD MAN LITZINGER	PARTY NUMBER 6834	NOTES CHECKED BY MLM	RW	LINE # 8	PAGE 15
AREA GA.	TOPO MAP Four Points	STATE GA.	COUNTY JENKINS	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.	
									167.8					
177	660		116° 29' 3"	-1.3°	13.1	TH	3.3	-9.8		158.0	TP	-281 +1	+597	978,577 560,724
177	660			"	9.8	-		-9.8			TP			
	330		310° 58' 0" - 180°	-1.3°	+3.9	-		+3.9			BS	-211	+254	
	330		" "	"	+5.6	TH	-1.7	+3.9	161.9		BS			
178	0				5.4	-		5.4		156.5	TP	0	0	978,366 560,978
179	330		149° 39' 1"	-1.3°	2.3	-		2.3		159.6		-281	+173	978,085 561,151
180	660		149° 39' 1"	"	0.6	-		-0.6		161.4	TP	-562	+346	977,804 561,324
180	660				3.7	TH	+3.3	-0.4			TP			
	1324		327° 45' 5" - 180°	-1.3°	+14.2	92° 28'	+36.9	+69.2	230.6		BS	-1104	+732	Re shot 4-24-80 mch
	1324		" "		+12.9	92° 26'	+56.2	+69.1			BS			
181	990		327° 45' 5"	-1.3°	5.8	93°	-51.7	-57.5		173.1		+825	-547	977,525 561,509
182	660		" "	"	6.5	93°	-34.5	-41.0		189.6		+550	-365	977,250 561,691
183	330		" "	"	5.0	93°	17.2	-22.2		208.4		+275	-182	976,975 561,874
184	0				5.4	-		-5.4		223.2	TP	0	0	976,700 562,056
185	330		147° 26' 0"	-1.3°	1.8	89°	+5.8	+4.0		234.6		-274	+184	976,426 562,240
186	660		" "	"	2.0	89°	+11.5	+9.5		240.1		-548	+368	976,152 562,424
187	990		147° 26'	-1.3°	10.5	89°	+17.3	+5.6			TP	-822	+552	975,878 562,608 Re shot 4-28-80 mch
187	990				14.5	88° 50'	+20.2	+5.7		236.3	TP			

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 4-24-80	INSTRUMENT MAN MARINO	ROD MAN LITZINGER	PARTY NUMBER 6834	NOTES CHECKED BY MLM Rlw	LINE NO. 8	PAGE 176
AREA GA.	TOPO MAP Four Points	STATE GA.	COUNTY JENKINS	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 -		EAST + WEST -		COORDINATES		REMARKS
												LAT.	DEP.	Y	X			
	1318		326° 28' 2" - 180°	-1.3°	+11.2	88° 16'	-39.8	-28.6			BS	-1082	+753					
	1318		" "		+14.3	88° 8'	-42.9	-28.6	207.7		BS							
188	990		326° 28.2'	-1.3°	9.3	88° -	+34.5	+25.2		232.9		+813	-565	975,609	562,796			
187	860		326° 7'	-1.3°	9.5	88° -	+27.9	+18.4		226.1		+654	-461	975,450	562,900			975,450 562,900 4-Way Intersect e/226
189	660		326° 28.2'	-1.3°	9.7	88° -	+23.0	+13.3		221.0		+542	-377	975,338	562,984			
190	330		325° 43.2'	-1.3°	7.1	88° -	+11.5	+4.4		211.8		+268	-192	975,064	563,169			
191	0				5.4	-	-	-5.4		202.3		0	0	974,796	563,361			
192	330		138° 7' 0"	-1.3°	9.6	89° -	+5.8	-3.8		203.9		-241	+226	974,555	563,587			
193	660		" "		13.2	-	-	-13.2		194.5		-481	+452	974,315	563,813			
194	985		138° 24' 3"	-1.5°	13.6	BH	-4.9	-18.5		189.2	TP	-719	+673+3	974,077	564,037			
194	985				12.8	90° 20'	-5.7	-18.5			TP							
	1650		337° 27.1' - 190°	-1.5°	+9.1	91° 30'	+43.2	+52.3	241.5		BS	-1507	+672+3					
	1650				+13.8	91° 20'	+38.4	+52.2			BS							
195	1320		337° 27.1'	-1.5°	12.8	91° 30'	-34.5	-47.3		194.2		+1205	-538	973,775	564,174			
196	990		" "	"	12.6	91° 30'	-28.9	-38.5		203.0		+904	-403	973,774	564,309			
197	660		" "	"	12.9	91° -	-11.5	-24.4		217.1		+603	-269	973,173	564,443			
198	330		" "	"	13.7	-	-	-13.7		227.8		+301	-134	972,871	564,578			
199	0				5.4	-	-	-5.4		234.1	TP	0	0	972,570	564,712			
200	330		157° 39'	-1.5°	1.5	TH	+1.7	+0.2		241.7		-302	+133	972,268	564,845			
199	458		156° 33.4'	-1.5°	1.4	89° 30'	+4.0	+2.6		244.1		-415	+193	972,155	564,905			972,170 + 564,920 T-rd (s.w.)
201	660		157° 39'	-1.5°	1.7	89° 30'	+5.8	+4.1		245.6		-604	+267	971,966	564,979			

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
4/25/80		GLITZINGER		M. MARINO		6834		MLM Rlw		8	17				
AREA		TOPO MAP		STATE		COUNTY		RANGE	PPM	PARTY MANAGER					
GEORGIA		Four Points		GEORGIA		JENKINS				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
									241.5						
202	990		157° 39'	-1.5°	5.6	89° 30'	+8.6	+3.0		244.5		-905	+400	971,665	565,112
203	1320		157° 39'	-1.5°	6.6	89° 30'	+11.5	+4.9		246.4	TP	-1207	+534.2	971,343	565,248
203	1320				10.4	89° 20'	+15.4	+5.0			TP				
	660		337° 15.1' - 190°	-1.5°	+10.3	89° -	-11.5	-1.2			BS	-602	+271		
	660				+8.4	89° 10'	-9.6	-1.2	245.2		BS				
204	330		337° 15.1'	-1.5°	6.1	89° -	+5.8	-0.3		244.9		+301	-136	971,062	565,383
205	0				5.4	-		-5.4		239.8	TP	0	0	970,761	565,579
206	330		170° 1.3'	-1.5°	2.5	89° -	+5.8	+3.3		248.5		-323	+66	970,438	565,585
207	660		170° 1.3'	-1.5°	3.9	88° -	+23.0	+19.1			TP	-647	+131	970,114	565,650
207	660				1.9	88° 10'	+21.1	+19.2		264.4	TP				
	1320		350° 29.4' - 190°	-1.5°	+7.5	-		+7.5			BS	-1296	+252		
	1320				+14.1	TH	-6.6	+7.5	271.9		BS				
208	990		350° 29.4'	-1.5°	5.5	-		-5.5		266.4		+972	-189	969,790	565,713
209	660		" "	"	14.3	=		-14.3		257.6		+648	-126	969,466	565,776
210	580		" "	"	13.6	-		-13.6		258.3		+324	-63	969,142	565,834
211	0				5.4	-		-5.4		266.5	TP	0	0	968,518	565,902
212	330		170° 17.5'	-1.5°	0.3	TH	+1.7	+1.4		273.3		-324	+64	968,494	565,966
213	660		" "	"	1.9	89° 30'	+5.8	+3.9		275.8		-647	+128	968,171	566,030
214	990		170° 17.5'	-1.5°	13.9	89° 30'	+8.6	-5.3		266.7	TP	-971	+192	967,847	566,094
214	990				13.2	89° 32'	+8.1	-5.1	5.2		TP				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
4/25/80		GLITZINGER		M. MARINO		6834		MLM		8	18			
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER			
GEORGIA		Four Points		Georgia		Jenkins					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.	
214										266.7				
	650		343° 18.7'	1.5°	+10.1	88° -	-22.7	-12.6			BS	-618	+203	
	650			"	+8.2	88° 10'	-20.8	-12.6	254.1		BS			CURVE
75	582		343° 40.8'	1.5°	6.9	98° -	+20.3	+13.4		267.5		+554	-178	967,780 + 566,120 4-Way Intersect.
215	325		337° 1'	1.5°	0.4	-		-0.4		253.7		+296	-135	967,525 566,162 CURVE
216	0			"	5.4	-		-5.4		248.7	T	0	0	967,229 566,297
217	330		133° 5.9'	1.3°	3.7	89° -	+5.8	+2.1		256.2		-220	+246	967,009 566,543
218	660			"	3.6	88° 30'	+17.3	+13.7		267.8		-440	+492	966,789 566,789
219	990		133° 5.9'	1.3°	4.7	88° 20'	+28.8	+24.1		278.2	TP	-660	+738	966,569 567,036
219	990			"	7.5	88° 10'	+31.7	+24.2			TP			
	1650		311° 20.9' - 140°	1.3°	+13.0	88° 40'	-38.4	-25.4			BS	-1062	+1263	
	1650			"	+8.0	88° 50'	-33.6	-25.6	252.7		BS			
220	1320		311° 20.9'	1.3°	3.0	89° -	+23.0	+20.0		278.7		+849	-1010	966,356 567,288
221	940		" "	"	5.5	89° -	+17.3	+11.8		264.5		+637	-758	966,144 567,540
222	660			"	0.6	99° 30'	+5.8	+5.2		257.9		+425	-505	965,932 567,793
223	330			"	1.1	-		-1.1		251.6		+212	-253	965,719 568,045
224	0			"	5.4	-		-5.4		247.3	T	0	0	965,507 568,298
75	302		123° 43'	1.3°	5.6	-		-5.6		247.1		-162	+255	965,345 568,353 4 way FL 247
225	330		123° 20.5'	1.3°	7.0	-		-7.0		245.7		-175	+280	965,332 568,578
226	660			"	4.0	-		-4.0		248.7		-350	+559	965,157 568,857

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 4/25/80	INSTRUMENT MAN G LITZINGER	ROD MAN M MADRINO	PARTY NUMBER 6834	NOTES CHECKED BY Rlw	LINE NO. 8	PAGE 19
AREA Georgia	TOPO MAP Four Points	STATE Georgia	COUNTY Jenkins	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.	
									252.7					
227	990		123° 21.5	-1.3°	3.1	89° 30'	+8.6	+5.5	252.7	258.3	TP	-525	+239+2	964,982 569,139
227	990				5.9	89° 20'	11.5	+5.7	252.7		TP			
	328		293° 41.7' -180°	-1.3°	+12.0			+12.0			BS	-125+1	+303+2	
	328				+10.4	8H	+1.6	+12.0	270.3		BS			
228	0				5.4	-		-5.4		264.9	TP	0	0	964,858 569,444
229	330		103° 45.5'	-1.3°	13.8	8H	-1.7	-15.5		259.8		-71	+322	964,787 569,764
230	660		103° 46.5'	-1.3°	14.5	90° 50'	-9.6	-24.1			TP	-142+2	+644+2	964,718 570,090
230	660				12.5	91°	11.5	-24.0		246.3	TP			
	1320		283° 33.4' -180°	-1.3°	+6.5			+6.5			BS	-280+2	+1290+2	
	1320				+13.1	TH	-6.6	+6.5	252.8		BS			
231	990		283° 33.4'	-1.3°	7.4	-		-7.4		245.4		+210	-967	964,650 570,415
232	660		" "	"	11.4	-		-11.4		241.4		+140	-635	964,580 570,737
233	330		" "	"	12.1	-		-12.1		240.7		+70	-322	964,510 571,060
234	0				5.4	-		-5.4		247.4	TP	0	0	964,440 571,382
235	330		102° 53.3	-1.3°	1.9	89°	+5.8	+3.9		256.7		-66	+323	964,374 571,705
236	660		" "		2.0	89°	+11.5	+9.5		262.3		-133	+647	964,307 572,029
7L	845		102° 53.3'	-1.3°	5.1	89°	+14.7	+9.6		262.4	TP	-170	+828	964,270 572,210
7L	845				2.9	89° 10'	+12.3	+9.5			TP			964,270 +572,210 4-Way Intersect. (Rt. 25)
	467		286° 40.7' -180°	-1.6°	+9.5	-		+9.5	271.9		BS	-121+5	+451-5	
	467				+7.1	8H	+2.3	+9.4			BS			

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
4/25/80		G LITZINGER A		M MARINO		6834		Mw		8		20				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
Georgia		Four Points		Georgia		Jenkins								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
									271.9							
237	330		286° 30'	-1.6°	7.0	-		-7.0		264.9		+85	-319	964,239	572,337	
238	0				5.4	-		-5.4		266.5	X	0	0	964,154	572,656	
239	330		119° 39'	-1.6°	10.0	92°-	-11.5	-21.5		250.4		-155	+291	963,999	572,947	
240	658		119° 39'	-1.6°	9.8	91°46'	-20.3	-30.1		241.8	TP	-309+5	+581-5	963,850	572,232	TP opposite sta.
240	658				9.1	91°50'	-21.0	-30.1			TP					
	331		280° 52.2'	-1.6°	+11.1	88°	-11.5	-0.4			BS	-53+5	+327-5			
	331				+10.6	88°6'	-11.0	-0.4	241.4		BS					
241	0				5.4	-		-5.4		236.0	X	0	0	963,802	572,554	
242	330		91° 42'.2	-1.6°	8.9	-		-8.9		232.5		-1	+330	963,801	572,884	
243	660		91° 42.2'	-1.6°	5.5	-		-5.5		235.9	TP	-1+5	+660-5	963,806	574,209	
243	660				2.3	BH	-3.3	-5.6			TP					
	660		265° 35' -180°	-1.8°	+4.3	TH	-3.3	+1.0			BS	+71+5	+656-3			
	660				+4.8	89° 40'	-3.8	+1.0	236.9		BS					
244	330		265° 35'	-1.8°	1.8	TH	+1.7	-0.1		236.8		-36	-328	963,846	574,534	
245	0				5.4	-		-5.4		231.5	X	0	0	963,882	574,862	
IT	205		83° 4'.5	-1.8°	8.4	-		-8.4		228.5		+31	+203	963,913	575,065	963,920 + 575,090 T-intersect.
246	242		127° 13.2'	-1.8°	10.6	-		-10.6		226.3	TP	-140+2	+197-6	963,744	575,053	90° bend (south)
246	242				11.8	TA	+1.2	10.4			TP					

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 4/26/80	INSTRUMENT MAN M. Marino	ROD MAN G. Litzinger	PARTY NUMBER 6834	NOTES CHECKED BY RLW	LINE NO. 8	PAGE 21
AREA Georgia	TOPO MAP Four Points	STATE Georgia	COUNTY Jenkins	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.	
246										226.3				
	330		358° 49' 5" - 180°	-1.8°	+4.1	-		+4.1	230.4		BS	-330+3	+17-6	
	330				+5.7	TH	-1.7	+4.0			BS			
247	0				5.4	-		-5.4		225.0	X	0	0	963,417 575,064
248	328		169° 44' 1"	-1.8°	6.6	-		-6.6		223.8	TP	-321+2	+69-6	963,098 575,127
248	328				5.0	BH	-1.6	-6.6			TP			
	1650		339° 37' 2" - 180°	-1.8°	+14.7	89°	-28.8	-14.1	209.7		BS	-1528+3	+623-6	
	1650				+11.7	89° 6'	-25.9	-14.2			BS			
249	1320		339° 37' 2"	-1.8°	4.2	TH	6.6	+2.4		212.1		+1222	-498	962,795 575,946
250	990		" "	"	5.2	-		-5.2		204.5		+917	-379	962,490 575,370
251	660		" "	"	7.1	-		-7.1		202.4		+611	-249	962,184 575,495
252	330		" "	"	6.7	-		-6.7		203.0		+306	-125	961,879 575,619
253	0				5.4	-		-5.4		204.3	X	0	0	961,573 575,744
254	330		159° 42' 1"	-1.8°	1.1	-		-1.1		208.6		-306	+124	961,267 575,868
255	660		" "	"	5.9	89°	+11.5	+5.6		215.3		-612	+298	960,961 575,992
256	990		" "	"	3.3	89°	+17.3	+14.0		223.7		-917	+812	960,656 576,116
257	1320		" "	"	10.0	88° 20'	+38.4	+28.4		238.1		-1223	+497	960,350 576,241
±	1520		159° 42' 1"	-1.8°	11.1	88° 20'	+44.2	+33.1			TP	-1908	+572-6	960,165 576,310
±	1520				11.9	88° 18'	45.1	+33.2		242.9	TP			

horiz. correct. y = +35'
x = -53'
960,165 + 576,310
4-Way Intersect.

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
4/26/80		G. Cotcamp		M. Marino		6834		R.H.L.		8	22						
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE	PPM	PARTY MANAGER					
Georgia		Portal		Georgia		Bulloch						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		
1043			332°52.5' - 180°		+9.3	91°	+18.2	+27.5	276	243.0	BS						Frd (west) el. 243.
1043					+14.3	90°44'	+13.4	+27.7	270.6		BS						
π	0				5.4	-		-5.4		265.2	π						951,375 578,925
IF	655		155°31'		9.8	-		-9.8		260.8	TP						Frd (n.e.)
IF	655				13.1	TH	+3.3	-9.8			TP			951,375	578,925		
1163			233°50' - 180°	-1.5°	+10.2	-		+10.2	271.0		BS	+711	+921				Note: 9,290' gap
1163					+4.4	BH	+5.8	+10.2			BS						between 257 and
285	990		233°40'	-1.5°	8.5	-		-8.5		262.5		-607	-782	951,479	579,064		285 (no geophones
286	660		" "	"	8.2	-		-8.2		262.8		-405	-521	951,681	579,325		or v.b. points)
287	330		" "	"	7.7	-		-7.7		263.3		-202	-261	951,884	579,585		
288	0				5.4	-		-5.4		265.6	π	0	0	952,086	579,846		
289	330		48°46'	-1.5°	4.9	-		-4.9		266.1		+224	+243	952,310	580,088		
290	656		44°12'	-1.5°	9.9	-		-9.9		261.1	TP	+982	+445	952,568	580,291		curve
290	656				6.6	BH	-3.3	-9.9			TP						
	632	.	251°58.9' - 180°	-1.5°	+6.1	-		+6.1	267.2		BS	+211	+596				shooting interior of curve
	632				+2.9	BH	+3.2	+6.1			BS						
291	325		265°35'	-1.5°	6.1	-		-6.1		261.1		-34	-323	952,745	580,564		curve
292	0				5.4	-		-5.4		261.8	π	0	0	952,779	580,887		
293	330		103°48.8'	-1.5°	3.4	-		-3.4		263.8		-70	+322	952,709	581,209		

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
4/26/80		G. Coisamp		M. Marino		6834		GVC Rlw		88	223						
AREA		TOPO MAP	STATE	COUNTY	TWP	RANGE	PPM	PARTY MANAGER									
Georgia		Petal	Georgia	Bulloch				Davis		0							
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		
									267.2								
294	660		103°48.8'	-1.5°	0.5	-		-0.5		266.7	TP	-191	+695	952,638	584,532		
294	660				3.8	TH	+3.3	-0.5			TP						
	990		269°24.2'-180°	-1.5°	+7.5	-		+7.5	274.2		BS	+36	+989				
	990				+2.5	BH	+5.0	+7.5			BS						
<u>11</u>	733		269°13'	-1.5°	13.7	-		-13.7		260.5		-29	-782	952,645	581,789	752,655 + 581,800 T-rod (north)	
295	660		269°24.2'	-1.5°	14.2	-		-14.2		260.0		-24	-660	952,650	581,861		
296	330		"	"	10.4	-		-10.4		263.8		-10	-330	952,662	582,191		
297	0				5.4	-		-5.4		268.8	TP	0	0	952,674	582,521		
298	330		82°50'	-1.5°	13.9	BH	-1.7	-15.6		258.6		+50	+326	952,724	582,847		
299	660		"	"	12.2	91°-	-11.5	-23.7		250.5		+99	+652	952,773	583,173		
300	990		82°9'	-1.5°	5.4	91°-	-17.3	-22.7		251.5	TP	+161	+977	952,835	583,498		
300	990				14.1	90°30'	-8.6	-22.7			TP						
	663		267°31.8'-180°	-1.5°	+9.8	-		+9.8	261.3		BS	+46	+661				
	663				+13.1	TH	-3.3	+9.8			BS						
301	330		267°31.8'	-1.5°	3.1	-		-3.1		258.2		-23	-329	952,858	583,830		
302	0				5.4	-		-5.4		255.9	TP	0	0	952,881	584,159	set-up opposite sta.	
303	330		97°27.2'	-1.5°	10.0	-		-10.0		251.3		-34	+328	952,847	584,487		
304	660		97°27.2'	-1.5°	8.7	-		-8.7		252.6	TP						
304	660				12.0	TH	+3.3	-8.7			TP	-68	+656	952,813	584,815		

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY			LINE NO.	PAGE		
4/27/80		GLITZINGER		M MARINO		6839		G.V.C. R.W.			8	24		
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE	PPM	PARTY MANAGER		
Georgia		Partial		Georgia		Bulloch						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.	
304										252.6				
	990		282° 18'	-1.5°	76.1	89° 20'	-11.5	-5.4			BS	-186	+972	
	990				9.0	89° 10'	-14.4	-5.4	247.2		BS			
305	660		282° 18'	-1.5°	0.4	89° 20'	+7.7	+7.3		254.5		+124	-690	952,751 585,139
306	330				1.5	TH	+1.7	+0.2		247.4		+62	-324	952,689 585,463
IF	310		282° 39.3'	-1.5°	1.6	TH	+1.6	5.0		247.2		+60	-304	952,687 585,483 952,695 + 585,495 FRD(N.E.) el. 247
307	0				5.4	-		-5.4		241.8	TP	0	0	952,627 585,787
308	330		101° 7'	-1.5°	4.6	-		-4.6		242.6		-55	+325	952,572 586,112
309	660		" "	"	6.1	-		-6.1		241.1		-110	+651	952,517 586,438
310	990		101° 7'	-1.5°	6.4	-		-6.4		240.8	TP	-165	+976	952,462 586,763
310	990				11.4	TH	+5.0	-6.4			TP			
	990		272° 16.2' = 180°	-1.5°	7.2	-		+12.9			BS	-13	+990	
	990				7.9	TH	+5.0	+12.9	253.7		BS			
311	660		272° 15.2'	-1.5°	4.7	-		-4.7		249.0		+9	-660	952,458 587,093
312	330		" "	"	4.8	-		-4.8		248.9		+4	-330	952,453 587,423
313	0				5.4	-		-5.4		248.3	TP	0	0	952,449 587,753 OPP STA
314	330		113° 18.6'	-1.5°	14.5	TH	-1.7	-16.2		237.5		-123	+306	952,326 588,059
315	660		" "	"	14.2	90° 50'	-9.6	-23.8		229.9		-245	+613	952,304 588,364
316	990		113° 18.6'	-1.5°	11.4	91° -	-17.3	-28.7		225.0	TP			
316	990				8.5	91° 10'	-20.2	-28.7			TP	-368	+919	952,081 588,672

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 4/27/50	INSTRUMENT MAN GLITZING	ROD MAN M. YAHINO	PARTY NUMBER 6534	NOTES CHECKED BY GWC	LINE NO. 8	PAGE 25
AREA Georgia	TOPO MAP Portals/Hopeulikit	STATE Georgia	COUNTY BULLOCH	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	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS
												LAT.	DEP.	Y	X	
316	660		271° 18.8' - 180°	-1.5°	+4.9	-		+4.9		225.0	BS	+2	+660			
	660				+8.2	TH	-3.3	+4.9	229.9		BS					
317	330		277° 18.8'	-1.5°	7.3	-		-7.3		222.6	TP	-1	-330	952,082	589,002	
318	0				5.0	-		-5.4		224.5	TP	0	0	952,083	589,332	
319	330		91° 30'	-1.5°	12.6	90° 30'	-2.9	-15.5		214.4	TP	+6	330	952,089	589,662	Portals Quad.
319	330				11.7	90° 40'	-3.8	-15.5			TP					
	330		292° 18.1' - 180°	-1.5°	+0.4	89° 10'	-4.8	-4.4			BS	-62	+324			
	330				+1.4	89° -	-5.8	-4.4	210.0		BS					
320	0				5.4	-		-5.4		204.6	TP	0	0	952,027	589,986	Hopeulikit Quad. opp STA ↓
321	312		114° 54'	-1.5°	5.4	-		-5.4		204.6	TP	-120	+288	951,907	590,274	X in Tersect. el. 204.
321	322		112° 15'	-1.5°	5.4	-		-5.4		204.6	TP	-114	+301	951,913	590,287	Corner
321	322				3.8	BH	-1.6	-5.4			TP					
	660		247° 45.2' - 180°	-1.5°	+2.2			+2.2			BS	+266	+604			
	660				+5.5	TH	-3.3	+2.2	206.8		BS					
322	330		247° 45.2'	-1.5°	3.2	-		-3.2		203.6		-133	-302	952,046	590,589	
323	0				5.4	-		-5.4		201.4	TP	0	0	952,179	590,891	opp STA
324	312		94° 40.3'	-1.5°	3.9	-89° -	+5.4	+1.6		208.4		-17	+312	952,162	590,203	Corner
325	560		122° 31.6'	-1.5°	13.5	87° -	+29.3	+15.8		222.6	TP	-289	+480	951,890	591,371	
325	560				10.2	87° 20'	+26.0	+15.8			TP					

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
4/27/80		E LITZINGER		M MARINO		6834		GWC FLO		8	26					
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE	PPM	PARTY MANAGER				
Georgia		Hopeville		Georgia		Bulloch						DBUIS				
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
325										222.6						
	654		356° 20.6' -190	-1.5°	+11.5 12.3 13.4 13.7	90° 20' 87° 90, 10, 70 70	+3.8	+15.3			BS	-651	+59		* RE SHOT GHL	
	654						+1.9	+15.3	237.9		BS					
326	328		352° 15.7'	-1.5°	10.5	-		-10.5		227.4		+324	-53	951,563	591,877	CORRE
327	0							-5.4		232.5	T	0	0	951,239	591,430	CORRE
328	328		130° 0.7'	-1.5°	10.2	-		-10.2		227.7		-205	+258	951,034	591,688	
329	645				7.5	91°	-11.3	-18.8		219.1	TP					CORRE
329	645		123° 12'	-1.5°	5.6	91° 10'	-13.1	-18.7			TP	-339	+549	950,900	591,979	
	645		285° 38.4' -190	-1.5°	+8.8			+8.5			BS	-161	+645+1			
	645				+12.1	TH	-3.3	+8.8	227.9		BS					
329	328		286° 4.2'	-1.5°	10.8	-		-10.5		217.1		+83	-317	950,822	592,308	
330	0				5.2	-		-5.4		222.5	T	0	0	950,739	592,625	
330	328				1.2	-		-1.2		226.7		-207	+257	950,532	592,882	
333	660		130° 51.5'	-1.5°	10.2	-		-10.2		217.7	TP	-414	+514+2	950,325	593,141	
333	660				13.5	TH	+3.3	-10.2			TP					
	990		211° 35.4' -150	-1.5°	+6.0	85° 46'	-23.0	-17.0	200.7		BS	-638	+757			
	990				+3.1	88° 54'	-20.2	-17.1			BS					
334	660		311° 35.4	-1.5°	6.3	89°	+11.5	+5.2		205.9		+425	-505	950,112	593,393	
335	328				5.2	-		-5.2		195.5		+213	-252	949,900	593,646	
336	0				5.2	-		-5.4		195.3	T	0	0	949,687	593,898	
337	330		126° 39.4	-1.5°	2.5	86° 30'	+8.6	+6.1		206.8		-190	+270	949,497	594,168	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
4/27/80		G LITZINGER		M MARINO		6934		GWC Rlw		8		27				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
GEORGIA		Hopedick		Georgia		Bulloch								DRAVIS		
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
									200.7							
338	520		126° 3.6'	-1.5°	1.0	88° 30'	+13.6	-12.6		213.3		-295	+428	949,392	594,326	949,320 + 594,310 4W Intersect.
339	660		126° 39.4	-1.5°	6.0	88° 30'	+17.3	+11.3		212.0	TP	-380 ⁻²	+540 ⁺²	949,305	594,440	
339	660		1		7.9	88° 20'	+19.2	+11.3			TP					
	650		344° 40.7' - 186	-1.5°	+7.9			+7.9			BS	-622 ⁻²	+187 ⁺²			
	650				+4.7	8H	+3.3	+8.0		220.0	BS					
339	330		351° 12.9'	-1.5°	8.1			-8.1		211.9		+325	-59	949,006	594,570	
340	0				5.0			-5.4		214.6	T	0	0	948,681	594,629	
341	330		170° 21.7'	-1.5°	13.3			-13.3		206.7		-324	+64	948,357	594,693	
342	660		"		7.4	BA	-3.3	-10.7		209.3		-648	+127	948,033	594,756	
343	987		148° 17.9'	-1.5°	6.5			-6.5		213.5	TP	-961 ⁻²	+225 ⁺²	947,718	594,856	CURVE
343	987				11.5	TH	+4.9	-6.6			TP					
	660		342° 59.6' - 140	-1.5°	+10.4			+10.4			BS	-626 ⁻²	+209 ⁺²			
	660				+7.1	8H	+3.3	+10.4		223.9	BS					
344	330		342° 59.6'	-1.5°	4.6			-4.6		219.3		+313	-105	947,403	594,962	
345	0				5.0			-5.4		218.5	T	0	0	947,090	595,067	
346	325		143° 46.4'	-1.5°	7.4			-7.4		216.5		-257	+199	946,833	595,266	
347	653		135° 20'	-1.5°	10.6			-10.6		213.3		-452	+471	946,638	595,538	
348	980		133. 2.1'	-1.5°	7.3			-7.3		216.6		-650	+734	946,440	595,801	
349	1308		131 14.8	-1.5°	11.8	89° 30'	+11.4	+0.1		224.0	TP	-836	+1006 ⁺²	946,254	596,075	
349	1308				7.5	89° 40'	+7.6	+0.1			TP					

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN			ROD MAN		PARTY NUMBER		NOTES CHECKED BY			LINE NO.	PAGE				
4/29/80		G. LITZINGER			M. MARINO		6874		G. C.			8	28				
AREA		TOPO MAP		STATE	COUNTY			TWP	RANGE	PPM	PARTY MANAGER						
Georgia		Hopeulikit		Georgia	Bolloch						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		
349										224.0							
	660		313° 46.4 - 145'	-1.5°	+4.7	88° 40'	-15.4	-10.7			BS	-444	+488 ⁺²				
	660				+2.8	89° 50'	-13.4	-10.6	213.4		BS						horiz. correct. Y = -8', X = +15'
350	330		313° 46.4	-1.5°	4.7	88° 40'	+7.7	+3.0		216.4		+222	-244	946,032	596,321		
351	0				5.4	-		-5.4		208.0	TP	0	0	945,810	596,565		945,810 + 596,565 DRIVE WAY
352	330		134° 44'	-1.2°	14.1	-		-14.1		199.3		-243	+223	945,567	596,784		
353	660		138° 44'	-1.2°	8.2	91°	-11.5	-19.7			TP	-487-2	+446-2	945,321	597,009		
353	660				6.2	91° 10'	-13.4	-19.6		193.8	TP						
	990		321° 9.8 - 180°	-1.2°	+8.3	-		+8.3	202.1		BS	-758-2	+637-2				
	996				+3.3	BH	+5.0	+8.3			BS						
354	660		321° 9.8'	-1.2°	11.5	-		-11.5		190.6		+505	-425	945,066	597,219		
355	330		" "	"	8.8	-		-8.8		193.3		+253	-212	944,814	597,432		
356	0				5.4	-		-5.4		196.7	TP	0	0	944,561	597,644		
357	330		153° 19'	-1.2°	11.4	-		-11.4		190.7		-292	+154	944,269	597,798		
358	662		153° 19'	-1.2°	9.5	91°	-11.6	-21.1			TP	-585-2	+310-2	943,974	597,952		last sta. on road.
358	662				7.5	91° 10'	-13.5	-21.0		181.1	TP						
	328		333° 2' - 180°	-1.2°	+11.4	87°	-17.1	-5.7	175.4		BS	-289-2	+155-2				
	328				+11.2	87° 2'	-17.0	-5.8			BS						
359	0				5.4	-		-5.4		170.0	TP	0	0	943,683	598,105		in woods
TP	230		142° 28.8'	-1.2°	9.3	BH	-1.2	-10.5		164.9	TP	-179-2	+144-2	943,502	598,247		↓
TP	230				10.4	-		-10.4			TP						

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 4-28-80	INSTRUMENT MAN MARINS	ROD MAN LITZINGER	PARTY NUMBER 6834	NOTES CHECKED BY GWC	LINE NO. 8	PAGE 29
AREA GA.	TOPO MAP	STATE GA.	COUNTY Bulloch	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	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS
												LAT.	DEP.	Y	X			
TP										164.9								
	102		287°30.2-180°	-1.2°	+11.1	91°	+1.8'	+12.9	177.8		BS	-29-2	+98-2					
	102				+10.2	91°30'	+2.7	+12.9			BS							
360	6				5.4	-		-5.4		172.4	T	0	0	943,471	598,343			
361	322		92°56.5	-1.2°	11.8	87°	+16.8	+5.0		182.8	TP	-10-2	+322-2	943,459	598,663			
361	322				11.6	87°2'	+16.6	+5.0			TP							
	660		241°12'3-180°	-1.2°	+8.2	-		+8.2	191.0		BS	+330-2	+572-2					
	660				+11.5	TH	-3.3	+8.2			BS							
362	330		240°29.1	-1.2°	4.2	-		-4.2		186.8		-169	-283	943,618	598,950			
363	0				5.4	-		-5.4		185.6	T	0	0	943,787	599,233			last sta in field
364	328		90°4'3	-1.2°	8.9	88°46'	+7.1	-1.8			TP	+6-2	+328-2	943,791	599,559			driveway
364	328				9.1	88°44'	+7.2	-1.9		189.1	TP							
	240		314°59'-180°	-1.2°	+6.9	-		+6.9	196.0		BS	-166-2	+173-2					
	240				+5.7	BH	+1.2	+6.9			BS							
T	0				5.4	-		-5.4		190.6	T	0	0	943,623	599,730			
365	90		167°12'	-1.2°	2.7	-		-2.7		193.3		-25	+87	943,598	599,817			dirt road
TP	304		104°49'.2	-1.2°	8.7	88°	+10.6	+1.9		197.9	TP	-72	+295-1	943,551	600,024			↓
TP	304				9.6	87°56'	+11.5	+1.9			TP							
	445		307°44'.2-180°	-0.9°	+10.3	-		+10.3			BS	-267	+356					
	445				+8.1	BH	+2.2	+10.3	208.2		BS							
366	330		307°44.2'	-0.9°	5.3	-		-5.3		202.9		+198	-264	943,482	600,116			

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4-28-30		MARINO		LitZinger		6834		GWL		8		30			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GA.		Hopeville		GA.		Bulloch								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
									209.2						
367	0				5.4	-		-5.4		302.8	TP	0	0	943,284	600,330
368	330		123° 36' 7"	-0.9°	10.5	-		-10.5		197.7		-178	+278	943,106	600,658
TP	460		123° 36.7'	-0.9°	7.7	91°	-9.0	-15.7		192.5	TP	-249	+387	943,035	600,767
TP	460				5.0	91° 20'	-10.7	-15.7			TP				
	530		322° 3' 2"-180°	-0.9°	+7.3	88° 50'	-10.8	-3.5	189.0		BS	-413	+332		
	530				+7.9	88° 46'	-11.4	-3.5			BS				
369	323		322° 40'	-0.9°	3.2	89°	+5.6	+2.4		191.4		+254	-200	942,876	600,899
370	0				5.4	-		-5.4		183.6	TP	0	0	942,622	601,099
371	325		128° 14.4'	-0.9°	5.1	-		-5.1		183.9	TP	-197	+258	942,925	601,357
371	325				3.4	BH	-1.6	-5.0			TP				
	660		294° 1.5"-180°	-0.9°	+14.4	91°	+11.5	+25.9	209.8		BS	-259	+607		
	666				+13.2	91° 6'	+12.7	+25.9			BS				
372	330		294° 1.5'	-0.9°	12.4	91°	-5.8	-18.2		191.6		+130	-303	942,296	601,661
373	0				5.4	-		-5.4		204.4	TP	0	0	942,166	601,964
374	329		90° 5.6	-0.9°	5.2	-		-5.2		204.6	TP	+5	+329	942,171	602,293
374	329				6.8	TH	+1.6	-5.2			TP				
	660		276° 46' 2"-180°	-0.9°	+10.0	88°	-23.0	-13.0	191.6		BS	-67	+657		
	666				+12.0	87° 50'	-24.9	-12.9			BS				
375	330		276° 46.2'	-0.9°	7.9	88°	+11.5	+3.6		195.2		+34	-328	942,138	602,622
TP	178		276° 8.9'	-0.9°	5.9	88°	+6.2	+0.3		191.9		+16	-177	942,120	602,773

942,065 + 602,775
Trail (south)

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4-28-36		MARINO		LITZINGER		6834		GWC		8		31			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GA.		Hopevlikit		GA.		Bulloch								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
									191.6						
376	0				5.4	-		-5.4		186.2	π	0	0	942,104	602,950
377	330		95° 31.1	-0.9°	11.8	-		-11.8		179.8		-27	+329	942,077	603,279
378	660		" "	"	7.8	91°	-11.5	-19.3		172.3		-53	+658	942,051	603,608
379	990		95° 31.1	-0.9°	8.8	91°	-17.3	-26.12		165.5	TP	-80	+987	942,024	603,937
379	990				10.0	90° 56'	-16.1	-26.15			TP				
	990		275° 52.5-180	-0.9°	+11.3	89°	-17.3	-6.02	159.5		BS	-86	+986		
	990		" "		+5.6	89° 20'	-11.5	-5.95			BS				
380	660		275° 52.5	-0.9°	9.9	89°	+11.5	+1.6		161.1		+57	-658	941,995	604,265
381	330		" "	"	2.2	-		-2.2		157.3		+29	-329	941,967	604,594
382	0				5.4	-		-5.4		154.1	π	0	0	941,938	604,923
383	330		97° 16.6	-0.9°	6.2	-		-6.2		153.3		-37	+328	941,901	605,251
FF	662		" "	"	3.8	-		-3.8		155.7		-67	+598	941,871	605,521
384	660		" "	"	4.6	-		-4.6		154.9		-73	+656	941,865	605,579
385	990		97° 58.2	-0.9°	9.2	-		-9.22		150.3	TP	-122	+982	941,816	605,905
385	990				14.2	TH	+35.0	-9.25			TP				
	660		280° 33.7-180	-0.9°	+11.6	88°	-23.0	-11.42			BS	-111	+651		
	660				+9.7	88° 10'	-21.1	-11.45	138.9		BS				
386	330		280° 33.7	-0.9°	4.2	88°	+11.5	+7.3		146.2		+55	-325	941,760	606,231
387	0				5.4	-		-5.4		133.5	π	0	0	941,705	606,556

941,840 + 605,520
Frd. (south)

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
4-28-80		MARINO		Litzinger		6834		G.W.C. R.W.		8		232				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
GA.		Hapeulikit		GA.		Bulloch								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
									138.9							
388	323		85° 29' 1"	-0.9°	6.2	90° 46'	-4.3	-10.5			TP	+30	+322	941,735	606,878	Curve
388	323		" "		7.4	90° 34'	-3.2	-10.6		128.3	TP					
	520		245° 58' 9" - 180°	-0.9°	+4.3	-	-	+4.3			BS	+219	+472			
	520		" " "		+1.7	BH	+2.6	+4.3	132.6		BS					
389	190		248° 22' 8"	-0.9°	3.0	-	-	-3.0		129.6		-73	-176	941,881	607,174	
π	0				5.4	5	-	-5.4		127.2	π	0	0	941,954	607,350	split sta. - curve
390	165		114° 13' 6"	-0.9°	3.3	-	-	-3.3		129.3	TP	-65	+152	941,889	607,502	
390	165		" "		2.5	BH	-0.8	-3.3			TP					
	1650		301° 26' 2" - 180°	-0.9°	+5.7	90° 40'	+19.2	+24.9			BS	-838	+1421			
	1656				+7.4	90° 36'	+17.3	+24.7	154.0		BS					
391	1320		301° 26' 2"	-0.9°	14.9	BH	-6.6	-21.5		132.5		+671	-1137	941,722	607,786	
392	990		" "		13.4	BH	-5.0	-18.4		135.6		+503	-853	941,557	608,070	
393	660		" "		14.3	-	-	-14.3		139.7		+335	-568	941,386	608,355	
394	330		" "		9.2	-	-	-9.2		144.8		+168	-284	941,219	608,639	horiz. correct, y = -20'
395	0				5.4	-	-	-5.4		148.6	π	0	0	941,051	608,923	y = -21'
π	204		117° 30'	-0.9°	2.9	-	-	-2.9		157.1		-91	+182	940,960	609,105	740,960 + 609,105 T-rod (south)
396	330		" "		1.8	TH	+1.7	-0.1		153.9		-198	+295	940,903	609,218	
397	660		112° -	-0.9°	12.1	89° -	+11.5	-0.6		153.4		-238	+616	940,813	609,539	
398	985		110° 48'	-0.9°	11.0	89° -	+17.2	+6.2		140.2		-335	+926	940,716	609,849	

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4-28-80		MARINS		Litzinger		6834		GHL		8		33			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GA.		Hopewell		GA.		Bulloch								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
									15-4.0						
399	1365		110° 51.6	-1.1°	10.1	89° -	+22.8	+12.7		166.7	TP	-941+3	+1228-2	940,613	610,149
399	1305		" "	"	6.3	89° 10'	+19.0	+12.7			TP				
	982		275° 46.6 -180°	-1.1°	+11.5	-		+11.5			BS	-80+3	+979-2		curve
	982			"	+6.6	BH	+4.9	+11.5	179.2		BS				
	937		275° 44'	-1.1°	11.3	-		-11.3	166.9			+76	-934	940,612	610,192
400	660		274° 34'	-1.1°	8.9	-		-8.9	169.3			+40	-659	940,546	610,467
A01	330		" "	"	4.1	-		-4.1	174.1			+20	-329	940,526	610,797
402	0		" "	"	5.4	-		-5.4	172.8		π	0	0	940,536	611,126
403	330		93° 54'	-1.1°	5.1	-		-5.1	179.1			-16	+330	940,520	611,456
404	660		" "	"	0.9	TH	+3.3	+2.4	180.6			-32	+659	940,509	611,785
405	985		92° 22'	-1.1°	8.9	89° -	+17.2	+8.3	186.5		TP	-22+3	+985-1	940,517	612,110
405	985		" "	"	6.0	89° 10'	+14.3	+8.3			TP				
	660		264° 9.3' -180°	-1.1°	+14.8	-		+14.8			BS	+80+3	+655-1		
	660		" "	"	+11.5	BH	+3.3	+14.8	201.3		BS				
406	330		264° 9.3'	-1.1°	10.6	-		-10.6	190.7			-40	-328	940,560	612,436
407	0		" "	"	5.4	-		-5.4	195.9		π	0	0	940,500	612,764
A08	330		81° 35.6'	-1.1°	11.3	-		-11.3	190.0			+55	+325	940,555	613,089
409	660		" "	"	14.1	BH	3.3	-17.4	183.9			+109	+651	940,709	613,915
400	983		81° 35.6'	-1.3°	12.5	90° 30'	-8.6	-21.1	190.2		TP	+166+3	+969-1	940,769	613,732
410	983		" "	"	9.6	90° 40'	-11.4	-21.0			TP				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
4/29/80		G. Cotcamp		G. Litzinger		6834		GHL		8	34			
AREA		TOPO MAP		STATE		COUNTY		RANGE		PPM	PARTY MANAGER			
Georgia		Hopeulikit		Georgia		Bulloch					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.	
410										180.2				
	980		269°34.5'	-160°	+1.3°	+4.1	TH	-4.9	-0.8	179.4	BS	+30 +3	+980 -2	curve
	980					+5.0	89°40'	-5.7	-0.7		BS			
411	660		269°46'	-1.3°	2.0	-		-2.0		177.4		-18	-660	940,784 614,050
412	330		"	"	3.4	-		-3.4		176.0		-9	-330	940,793 614,380
413	0		"	"	5.4	-		-5.4		174.0	π	0	0	940,802 614,710
414	330		79°56.7'	-1.3°	5.9	-		-5.9		173.5		+65	+324	940,867 615,034
415	660		"	"	9.3	-		-9.3		170.1		+130	+647	940,932 615,357
416	990		79°56.7'	-1.3°	12.9	-		-12.9		166.5	TP	+195 +4	+971 -2	941,001 615,679
416	990		"	"	7.9	BH	-5.0	-12.9			TP			
	985		260° 6.8'	-180°	-1.3°	+1.2	89° -	-17.2	-16.0		BS	+191 +4	+966 -1	
	985		"	"		+4.1	88°50'	-20.1	-16.0	150.5	BS			
417	660		260° 6.8'	-1.3°	1.3	89° -	+11.5	+10.2		140.7		-128	-647	941,068 615,997
418	330		"	"	3.8	89° -	+5.8	+2.0		152.5		-64	-324	941,132 616,320
419	0		"	"	5.4	-		-5.4		145.1	π	0	0	941,196 616,644
420	330		86°15'	"	9.2	-		-9.2		141.3		+29	+329	941,225 616,973
421	650		83°44.3'	-1.3°	7.7	-		-7.7		142.8	TP	+86 +4	+644 -1	941,286 617,287 curve
421	650		"	"	4.4	BH	-3.3	-7.7			TP			
	1315		235°31.6'	-160°	-1.3°	+11.9	91° -	+22.9	+34.8	+34.9	BS	+769 +9	+1067 -2	
	1315		"	"		+4.4	91°20'	+30.6	+35.0	177.7	BS			
422	988		235°31.6'	-1.3°	6.9	91° -	-17.2	-24.1		153.6		-578	-802	941,481 617,550

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
4-20-80		MARIPO		Litzinger		6834		GWC		8	36				
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
GA.		Hopeulikit		GA.		Bulloch					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
									139.8						
431	330		308° 10.8'	-1.7°	1.8	-		-1.8		138.0		+196	-265	940,942	619,986
432	0				5.4	-		-5.4		134.4	TP	0	0	940,746	620,251
433	330		128° 27.0'	-1.7°	7.9	-		-7.9		131.9		-197	+264	940,549	620,515
434	660		" "		9.7	-		-9.7		130.1		-395	+529	940,351	620,780
435	990		" "		10.9	-		-10.9		128.9		-592	+793	940,154	621,044
436	1315		129° 55.0'	-1.7°	5.2	BH	-6.6	-11.8			TP	-814-2	+1033+2	939,930	621,286
436	1315				2.5	90° 24'	-9.2	-11.7		128.1	TP				
	985		327° 24.3 ^{+150°}	-1.7°	+8.6	-		+8.6	136.7		BS	-814-2	+555+2		
	985				+13.5	TH	-4.9	+8.6			BS				
437	660		330° 6.5'	-1.7°	7.1	-		-7.1		129.6		+562	-346	939,676	621,497
438	330		332° 21.0'	-1.7°	6.1	-		-6.1		130.6		+288	-162	939,402	621,681
439	0				5.4	-		-5.4		131.3	TP	0	0	939,114	621,843
440	330		151° 10.8'	-1.7°	3.7	-		-3.7		133.0		-284	+168	938,830	622,011
441	660		" "		2.0	-		-2.0		134.7		-569	+335	938,545	622,178
442	990		" "		2.3	TH	+5.0	+2.7		139.4		-853	+503	938,261	622,346
443	1320		151° 16.7'	-1.7°	3.7	89° 24'	+13.8	+10.1		146.8	TP	-1138-2	+668	937,974	622,511
443	1320		" "		0.6	89° 32'	+10.7	+10.1			TP				
	985		317° 23.6 ^{+180°}	-1.7°	+12.0	BH	+4.9	+16.9	163.7		BS	-705-2	+488		
	985		" "		+9.5	90° 26'	+7.4	+16.9			BS				
444	660		313° 57°	-1.7°	10.0	-		-10.0		153.7		+444	-489	937,711	622,710

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 4-20-80	INSTRUMENT MAN MARINO	ROD MAN LITZINGER	PARTY NUMBER 6534	NOTES CHECKED BY GWC	LINENO. 8	PAGE 37
AREA GA	TOPO MAP Hopeulikit	STATE GA	COUNTY Bulloch	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 TP	NORTH + SOUTH - EAST + WEST -		COORDINATES		REMARKS
												LAT.	DEP.	Y	X	
445	330		309° 51'	-1.7°	5.1	-		-5.1	163.7	158.6		+204	-260	937,471	622,939	
446	0				5.4	-		-5.4		158.3	T	0	0	937,267	623,199	
447	330		123° 29'.2	-1.7°	10.5	-		-10.5		153.2		-174	+281	937,093	623,480	
448	660		" "	"	10.8	-		-10.8		152.9		-348	+561	936,919	623,760	
449	990		" "	"	7.3	-		-7.3		156.4	TP	-521-2	+942	936,744	624,041	
449	990		123° 29'.2	-1.7°	2.3	BH	5.0	-7.3			TP					
	1650		303° 0.5' 180	-1.7°	+11.2	90° 42'	+20.2	+31.4	187.8		BS	-857-2	+1410			
	1650		" "	"	+13.9	90° 36'	+17.3	+31.2			BS					
450	1320		" "	"	13.6	90° 32'	-12.3	-25.9		161.9		+686	-1128	936,571	624,323	
451	990		" "	"	14.3	90° 14'	-4.0	-18.3		169.5		+574	-844	936,399	624,605	
452	660		" "	"	11.0	-		-11.0		176.8		+343	-564	936,228	624,887	
453	330		" "	"	5.3	-		-5.3		182.5		+171	-282	936,056	625,169	
454	172		304° 47'	-1.7°	4.5	-		-4.5		183.3		+94	-144	935,979	625,307	935 990 625 305 T-1N1, e1 185
454	0				5.8	-		-5.8		182.0	T	0	0	935,885	625,451	
455	330		122° 52'.1	-1.7°	12.1	-		-12.1		175.7		-171	+282	935,714	625,733	
456	660		" "	"	12.1	91°	-11.5	-23.6		169.2		-342	+566	935,543	626,016	
457	990		" "	"	1.5	92°	-34.5	-36.0		151.8		-512	+847	935,373	626,298	
458	1320		" "	"	12.1	91° 26'	-33.0	-45.1		142.7		-683	+1129	935,202	626,580	
459	1650		122° 52'.1	-1.7°	9.0	91° 26'	-41.3	-50.3		137.5	TP	-854-2	+1412	935,029	626,863	
459	1650				13.8	91° 16'	36.5	-50.3			TP					

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 4-20-80	INSTRUMENT MAN MARINO	ROD MAN LITZINGER	PARTY NUMBER 6834	NOTES CHECKED BY GVC.	LINE NO. 8	PAGE 38
AREA GA.	TOPO MAP Hopeulikit/Dover	STATE GA.	COUNTY Bulloch	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.	
459										137.5				
	989		316° 1.2' -190°	-1.7°	+14.1	BH	+4.9	+19.0	156.5		BS	-491.1	+708	
	989		" "		+10.9	90° 28'	+8.1	+19.0			BS			
460	660		318° 21.2'	-1.7°	12.0	90° 32'	-6.1	-18.1		138.4		+480	-453	934,817 627,118
461	330		" "	"	12.9	-		-12.9		143.6		+240	-227	934,577 627,344
462	0				5.4	-		-5.4		151.1	TP	0	0	934,337 627,571
463	336		137° 32.2'	-1.7°	2.4	89° -	+5.8	+3.4		159.9		-237	+230	934,100 627,801
464	660		" "	"	10.0	88° -	+23.0	+13.0		169.5		-473	+460	933,864 628,031
465	985		134° 28.7'	-1.7°	13.5	88° -	+34.4	+20.9		177.4	TP	-669	+723	933,668 628,294
465	985		" "	"	10.6	88° 10'	+31.5	+20.9			TP			Hopeulikit Quad.
	964		291° 51' -180°	-1.7°	+12.4	89° -	-16.8	-4.4	173.0		BS	-332	+905	curve
	964		291° 51'	-1.7°	+9.6	89° 10'	-14.0	-4.4			BS			curve
466	660		288° 31'	-1.7°	4.8	89° -	+11.5	+6.7		179.7		+191	-632	933,527 628,567
466	555		288° 59.5'	-1.7°	3.6	89° -	+9.7	+6.1		179.1		+165	-530	933,501 628,669
														Dover Quad. 933,500, 628,675 TRD
467	330		287° 50'	-1.7°	2.6	89° -	+5.8	+3.2		176.2		+92	+317	933,528 628,882
468	0				5.4	-		-5.4		167.6	TP	0	0	933,336 629,199
469	330		107° 11.2'	-1.7°	13.5	-		-13.5		159.5		-88	+318	933,248 629,517
470	660		" "	"	10.5	91° -	-11.5	-22.0		151.0		-176	+636	933,160 629,835
471	985		108° 10.2'	-1.7°	13.7	91° -	-17.2	-30.9		142.1	TP	-279	+945	933,057 630,144
471	985				9.1	91° 15'	-21.8	-30.9			TP			curve

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 4-20-80	INSTRUMENT MAN MARINO	ROD MAN LITZINGER	PARTY NUMBER 6834	NOTES CHECKED BY GWC.	LINE NO. 8	PAGE 39
AREA GA.	TOPO MAP Dover	STATE GA.	COUNTY Bulloch	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.	
471										142.1				
	330		305° 21' - 180°	-1.7°	+4.3	89°	-5.8	-1.57	140.6		BS	-181	+274	
	330		" "	"	+7.9	330°	-9.4	-1.5			BS			
472	0				5.4	-		-5.4		135.2		0	0	932,876 630,420
473	329		140° 40.5'	-1.7°	4.4	-		-4.47			TP	-248	+216	932,628 630,636
473	329		" "	"	5.9	TH	+1.6	-4.3		136.3	TP			
	987		336° 23.2' - 180°	-1.7°	+3.5	92°	+34.4	+37.97	138°	174.3	BS	-892	+422	
	987		" "	"	+3.8	91° 42'	+29.3	+38.1			BS			
474	660		337° 16.5'	-1.7°	6.2	92°	-23.0	-29.2		145.1		+600	-274	932,336 630,764
475	330		337° 10.5'	-1.7°	3.8	92°	-11.5	-15.3		159.6		+300	-137	932,036 630,921
476	0				5.4	-		-5.4		168.9	TP	0	0	931,736 631,058
476	264		150° 27.3'	-1.7°	4.5	-		-4.5		169.8		-226	+137	931,510 631,195
477	330		152° 7.6'	-1.5°	5.1	-		-5.1		169.2		-288	+162	931,498 631,220
478	658		146° 59.1'	-1.5°	12.5	-		-12.5		161.8	TP	-542-3	+373-3	931,191 631,428
478	658		" "	"	9.2	BH	-3.3	-12.5			TP			
	1320		310° 16.8' - 180°	-1.5°	+2.3	88° 40'	-30.7	-28.4	133.4		BS	-827-3	+1029-3	
	1320				+6.0	88° 30'	-34.5	-28.5			BS			
479	990		312° 10.0'	-1.5°	-7.2	88° 30'	+25.9	+18.7		152.1		+520	-772	930,901 631,682
480	660		" "	"	1.8	89°	+11.5	+9.7		143.1		+413	-515	930,774 631,939
481	330		" "	"	0.8	TH	+1.7	+0.9		134.3		+207	-257	930,568 632,197
482	0				5.4	-		-5.4		128.0	TP	0	0	930,361 632,454

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
4/21/80		G. LITZINGER		M. MARINE		6874		G.W.C. rlu		8	40					
AREA		TOPO MAP		STATE		COUNTY		RANGE		PARTY MANAGER						
Georgia		Dover		Georgia		Bulloch				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
									133.4							
483	330		143° 20.7'	-1.5°	6.6	-		-6.6		126.8		-259	+204	930,102	632,658	
484	660		" "	"	6.8	-		-6.8		126.6		-519	+408	929,842	632,862	
485	990		" "	"	10.3	-		-10.3		123.1		-778	+612	929,583	633,066	
486	1310		143° 0.6'	-1.5°	12.0	-		-12.0		121.4	TP	-1025-3	+815-3	929,333	633,266	CURVE
486	1310				5.4	BH	-6.6	-12.0			TP					
	1310		364° 48.5' -180'	-1.5°	+5.6	-		+5.6	127.0		BS	-718-1	+1096-3			CURVE
	1310				+12.2	TH	-6.6	+5.6			BS					
487	990		302° 48'	-1.5°	6.0	-		-6.0		121.0		+514	-846	929,128	633,513	
488	660		" "	"	6.3	-		-6.3		120.7		+343	-564	928,957	633,795	
489	330		" "	"	6.4	-		-6.4		120.6		+171	-282	928,785	634,077	
490	0				5.4	-		-5.4		121.6	TP	0	0	928,614	634,359	
#	195		118° 55.8'	-1.5°	2.9	-		-2.9		124.1		-80	+173	928,524	634,532	railroad
1E	273		120° -	-1.5°	3.1	-		-3.1		123.9		-130	+240	928,884	634,599	T-rd (southwest)
491	330		123° 1'	-1.5°	3.3	-		-3.3		123.7		-173	+251	928,441	634,646	
492	660		" "	"	3.2	TH	+3.3	+0.1		127.1		-345	+563	928,269	634,922	
493	990		125° 6.6'	-1.5°	9.9	89° -	+17.3	+7.4		134.4	TP	-578	+824.4	928,066	635,179	
493	990				12.9	85° 10'	+20.2	+7.3			TP					
	985		323° 56.8' -180	-1.5°	+7.0	91° -	+17.2	+24.2	158.6		BS	-781	+606 -4			CURVE
	985				+4.0	91° 10'	+20.1	+24.1			BS					
494	660		325° 4.4'	-1.5°	6.1	91° -	-11.5	-17.6		141.0		+531	-392	927,816	635,383	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4/21/50		GLITZINGER		M. MARINO		6834		GWC.		8		41			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Georgia		Dover		Georgia		Bulloch								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
									158.6						
495	330		325° 4.4'	-1.5°	10.7	-		-10.7		147.9		+266	-196	927,551	635,579
496	0				5.4	-		-5.4		153.2	TP	0	0	927,285	635,775
497	330		145° 12.8'	-1.8°	4.5	-		-4.5		154.1		-266	+195	927,019	635,970
498	660		" "	"	9.6	-		-9.6		149.0		-532	+391	926,753	636,166
499	990		" "	"	8.7	-		-8.7		149.9		-798	+586	926,487	636,361
500	1320		145° 12.8'	-1.5°	3.2	-		-3.2		155.4	TP	-1064	+781-3	926,221	636,553
500	1320				9.8	TH	+6.6	-3.2			TP				
	990		323° 37.2' -150°	-1.5°	7.1	89° 30'	-8.6	+0.5	155.8		BS	-781	+608-4		
	990				+11.8	89° 20'	-11.5	+0.3	+0.4		BS				
JL 75	825		374° 1.4'	-1.5°	7.3	89° 20'	+9.6	+2.3		158.1		+655	-502	926,095	636,655
														926,095 + 636,655	4-way (RT 301)
501	660		323° 37.2'	-1.5°	9.0	89° -	+11.5	+2.5		158.3		+521	-405	925,961	636,752
502	330		" "	"	0.5	89° 30'	+2.9	+2.4		158.2		+260	-203	925,700	636,954
503	0				5.4	-		-5.4		150.4	TP	0	0	925,440	637,157
504	330		142° 53.4'	-1.5°	12.6	-		-12.6		143.2		-259	+205	925,181	637,362
505	660		" "		14.3	-		-14.3		141.5		-517	+910	924,923	637,567
506	990		142° 53.4'	-1.3°	12.9	-		-12.9		142.9	TP	-776-3	+615+3	924,661	637,775
506	990				8.0	BH	-5.0	-13.0			TP				
	1645		310° 25.8' -180	-1.3°	12.1	91° -	+28.7	+40.8			BS	-1038-3	+1276+2		curve
	1645				7.4	91° 16'	+33.5	+40.9	1838		BS				
507	1320		809° 39.2'	-1.3°	8.3	91° 30'	-34.5	-42.8		141.0		+819	-1035	924,439	638,018

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 4/21/90	INSTRUMENT MAN G LITZINGER	ROD MAN M MARINO	PARTY NUMBER 4834	NOTES CHECKED BY GWC.	LINE NO. 88	PAGE 42
AREA GEORGIA	TOPO MAP Dover	STATE Georgia	COUNTY Bulloch	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	NORTH + SOUTH - EAST + WEST -		COORDINATES		REMARKS
												LAT.	DEP.	Y	X	
									183.8							
508	990		309° 39.2'	-1.3°	12.7	91° 40'	-28.8	-41.5		142.3		+614	-776	924,234	638,277	
509	660		" "	"	11.2	91° 40'	-19.2	-30.4		153.4		+410	-518	924,030	638,535	
510	330		" "	"	12.5	~		-12.5		171.3		+205	-259	923,825	638,794	
1 1/2	88		309° 57.3'	-1.3°	6.3	-		-6.3		177.5		+55	-69	923,675	638,984	923,665 + 639,035 Factory entrance (north)
511	0				5.4	-		-5.4		178.4	T	0	0	923,620	639,053	
512	330		121° 26'	-1.1°	11.7	-		-11.7		172.1		-167	+285	923,453	639,338	
513	660		" "		13.9	-		-13.9		169.9		-333	+570	923,287	639,623	
514	980		117° 0.8'	-1.1°	12.9	91° -	-17.1	-30.0			TP	-428-2	+881+2	923,190	639,936	CURVE
514	980				9.9	91° 10'	-20.0	-29.9		153.9	TP					
	653		267° 7.2' -180°	-1.1°	+2.9	89° 40'	-3.8	-0.9	153.0		BS	+45-2	+651+2			CURVE
	653				+4.8	89° 30'	-5.7	-0.9			BS					
515	327		262° 42.8'	-1.1°	0.8	TH	+1.6	+0.8		153.8		-48	-324	923,185	640,265	CURVE
516	0				5.4	-		-5.4		147.6	T	0	0	923,233	640,589	
517	330		69° 53.8'	-1.1°	11.9	92° -	-11.5	-23.4		129.6		+119	+308	923,352	640,897	DIRT ROAD
518	660		69° 53.8'	-1.1°	11.0	92° -	-23.0	-34.0	-34.1	118.9	TP	+239-2	+615+2	923,470	641,206	
518	660				13.1	91° 50'	21.1	-34.2			TP					
	660		273° 55.5' -180°	-1.1°	+5.8	91° -	+11.5	+17.3	136.2		BS	-33-2	+659+2			
	660				+3.8	91° 10'	+13.4	+17.2			BS					
519	330		273° 55.5'	-1.1°	13.7	-		-13.7		122.5		+16	-330	923,451	641,537	
520	0				5.4	-		-5.4		130.8	T	0	0	923,435	641,867	OPP. STATION

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
4/21/80		G. LITZINGER		M. MARANO		6834		G.W.C. <i>mlw</i>		8		43				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
GEORGIA		Dover		GEORGIA		Bulloch								PAULS		
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	X
									136.2							
521	332		113° 43.4'	-1.1°	2.1	89°	+5.8	+3.7		139.9	TP	-128.2	+306.2	923,305	642,175	CURVE
521	332				1.1	89°10'	+4.8	+3.7			TP					
	660		305° 18.2' -180°	-1.1°	+10.4	-		+10.4	150.3		BS	-371.2	+546			
	660				+13.7	TH	-3.3	+10.4			BS					
522	330		305° 18.8'	-1.1°	2.1	-		-2.1		148.2		+186.	-273	923,118	642,448	
523	0				5.4	-		-5.4		144.9	TP	0	0	922,932	642,721	
524	330		125° 20.1'	-1.1°	0.5	-		-0.5			TP	-186.2	+273	922,744	642,994	
524	330				2.1	TH	+1.7	-0.4		149.9	TP					
	660		316° 53.7' -180°	-1.1°	+3.7	TH	-3.3	+0.4			BS	-473.2	+460			
	660				+2.4	29°50'	-4.9	+0.5	150.4		BS					
525	330		316° 53.7'	-1.1°	3.1	-		-3.1		147.3		+237	-230	922,506	642,224	
526	0				5.4	-		-5.4		145.0	TP	0	0	922,269	642,454	
527	330		137° 0.2'	-1.1°	1.5	89°20'	+3.8	+2.3		152.7		-237	+230	922,092	642,684	
528	660		137° 0.2'	-1.1°	2.4	88°30'	+17.3	+14.9			TP	-474.2	+459	921,793	642,913	
528	660				4.2	88°20'	+19.2	+15.0		165.4	TP					
	1320		311° 0.8' -180°	-1.1°	+3.8	-		+3.8			BS	-847.2	+1012			
	1320				+10.4	TH	-6.6	+3.8	169.2		BS					
529	990		311° 0.8'	-1.1°	3.2	-		-3.2		166.0		+635	-759	921,579	644,166	
530	660		" "		7.7	-		-7.7		161.5		+423	-506	921,367	644,419	
531	330		" "		7.8	-		-7.8		161.4		+212	-253	921,156	644,672	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 4/30/80	INSTRUMENT MAN G LITZINGER	ROD MAN M MARINO	PARTY NUMBER 6834	NOTES CHECKED BY GWC	LINE NO. 8	PAGE 44
AREA GEORGIA	TOPO MAP Dover	STATE Georgia	COUNTY Bulloch	RANGE	PPM	PARTY MANAGER DALLIS

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
									169.2						
532	0				5.4	-		-5.4		163.8	T	0	0	920,944	644,925
533	330		130° 43.2	-1.1°	7.3	-		-7.3		161.9		-210	+254	920,734	645,179
534	660		" "	"	11.4	-		-11.4		157.8		-421	+508	920,523	645,433
535	990		" "	"	12.0	-		-12.0		157.2		-631	+763	920,313	645,688
536	1320		130° 43.2'	-1.1°	4.2	-		-4.2		165.0	TP	-842.2	+1017	920,100	645,942
536	1320				0.4	90° 10'	-3.8	-4.2			TP				
	660		305° 48.6' - 180°	-1.1°	+14.4	-		+14.4			BS	-376.2	+543		
	660				+11.1	BH	+3.3	+14.4	179.4		BS				
537	330		305° 48.6'	-1.1°	9.3	-		-9.3		170.1		+188	-271	919,910	646,214
538	0				5.4	-		-5.4		174.0	T	0	0	919,722	646,485
539	330		121° 46.2'	-1.1°	1.7	-		-1.7		177.7		-168	+284	919,554	646,769
IF	530		122° 39.4'	-1.1°	0.8	TH	+2.7	+1.9		181.3		-277	+452	919,445	646,937
540	660		121° 46.2'	-1.1°	0.4	TH	+3.3	+2.9		182.3		-337	+568	919,385	647,053
541	1005		121° 42.4'		4.9	89° 30'									
541					7.8	89° 20'									
541	990		121° 46.2'	-1.1°	4.2	89° 30'	+8.6	+4.4		183.8	TP	-505	+852	919,217	647,337
541	990				7.1	89° 20'	+11.5	+4.4			TP				
	660		293° 47.7' - 180°	-1.1°	+0.7	TH	-3.3	-2.6			BS	-255	+609		
	660				+1.3	89° 40'	-3.8	-2.5	181.3		BS				
542	330		293° 47.7'	-1.1°	2.0	-		-2.0		179.3		+127	-304	919,089	647,642

919,435 + 646,965
T-02 (Southwest) el. 184.

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4/30/80		G. LITZINGER		M. MARINO		6834		GWC		8		45			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Georgia		Dover		Georgia		Bulloch								D. W. S.	
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
									181.3						
543	0				5.4	-		-5.4		175.9	TP	0	0	918,962	647,946
544	330		99° 19.6'	-1.1°	3.3	-		-3.3		178.0		-47	+327	918,915	648,273
1F	460		99° 43.2'	-1.3°	1.1	-		-1.1		180.2		-67	+455	918,895	648,401
545	660		99° 19.6'	-1.3°	0.5	-		-0.5		180.8	TP	-92	+654	918,870	648,600
545	660				3.8	717	+3.3	-0.5			TP				
	990		273° 7.8' - 190°	-1.3°	+13.7	90° 10'	+2.9	+16.6	197.4		BS	-32	+989		
	990			-1.3°	+14.7	90° 20'	+5.8	+16.5			BS				
546	660		273° 7.8'	"	10.6	-		-10.6		186.8		+21	-660	918,859	648,929
547	330		" "	"	3.6	-		-3.6		193.8		+11	-330	918,819	649,259
548	0				5.4	-		-5.4		192.0	TP	0	0	918,838	649,589
549	330		96° 46.3'	-1.3°	3.5	-		-3.5		193.9		-31	+328	918,807	649,917
550	660		" "	"	7.7	-		-7.7		189.7		-63	+657	918,775	650,246
551	990		" "	"	12.5	-		-12.5		184.9		-94	+985	918,744	650,574
552	1320		96° 46.3'	-1.3°	12.5	-		-12.5			TP	-126	+1314	918,712	650,903
552	1320				4.7	90° 20'	-7.7	-12.4		185.0	TP				
	990		281° 8.2' - 180	-1.3°	+11.5	88° 50'	-20.2	-8.7	176.3		BS	-169	+975		
	990				+8.5	89° -	-17.3	-8.8			BS				
553	660		281° 8.2'	-1.3°	3.8	89° -	+11.5	+7.7		154.0		+113	-650	918,656	651,228
554	330		" "	"	0.4	89° 40'	+1.9	+1.5		177.8		+56	-325	918,599	651,533
555	0				5.4	-		-5.4		170.9	TP	0	0	918,543	651,878

OPP STA

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4/30/80		G. LITZINGER		D. WIRIND		4834		G.W.C. <i>all</i>		8		46			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
600000		Dover		GEORGIA		Bulloch								DAPIS	
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
									176.3						
556	330		103° 44.1'	-1.3°	13.8	91° 30'	-8.6	-22.4		153.9		-71	+322	918,472	652,200
557	660				13.6	91° 30'	-17.3	-30.9		145.4		-142	+645	918,401	652,523
558	990		103° 44.1'	-1.3°	13.0	91° 30'	-25.9	-38.9		137.4	TP	-213	+967	918,330	652,845
558	990				10.2	91° 40'	-28.8	-39.0			TP				
	327		277° 29.3' -180°	-1.3°	+4.4	87° -	-17.1	-12.7			BS	-35	+325		CURVE
	327				+3.5	87° 10'	-16.1	-12.6	124.8		BS				
559	0				5.4	-	-	-5.4		119.4	TP	0	0	918,295	653,170
560	930		101° 16.8'	-1.3°	11.7	8H	-1.7	-13.4		111.4	TP	-57	+325	918,238	653,495
560	770				12.4	90° 10'	-1.0	13.4			TP				
	985		315° 8.0' -180°	-1.3°	+13.0	91° -	+17.2	+30.2			BS	-682	+711		CURVE
	985				+10.2	91° 10'	+20.1	+30.3	141.7		BS				
561	660		316° 34.5'	-1.3°	12.2	91° -	-11.5	-24.1		117.6		+468	-466	918,024	653,746
562	330		" "		13.5	-	-	-13.5		129.2		+234	-233	917,790	653,973
563	0				5.4	-	-	-5.4		136.3	TP	0	0	917,836	654,206
564	330		131° 35.2'	-1.3°	0.3	89° -	+5.8	+5.5		147.2		-213	+252	917,343	654,458
565	660		" "		1.9	89° -	+11.5	+9.6		151.3		-427	+503	917,129	654,709
566	990		131° 35.2'	-1.3°	9.8	88° 30'	+25.9	+16.1			TP	-640	+755	916,916	654,961
566	990				6.8	88° 45'	+23.0	+16.2		157.9	TP				
	1650		313° 54.5' -180°	-1.3°	+6.5	90° 20'	+9.6	+16.1			BS	-1117	+1214		
	1656				+11.3	90° 10'	+4.8	+16.1	174.0		BS				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 4/30/80	INSTRUMENT MAN G. LITZINGER	ROD MAN M. MARINO	PARTY NUMBER 6834	NOTES CHECKED BY GWC.	LINE NO. 8	PAGE 47
AREA Georgia	TOPO MAP Dover	STATE Georgia	COUNTY Bulloch	TWP	RANGE	PPM
				PARTY MANAGER 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.	
									174.0					
567	1300		313° 50.5'	-1.3°	15.7	-		-12.7		161.3		+894	-972	916,693 655,204
568	990		"	"	13.9	-		-13.9		160.1		+670	-729	916,469 655,447
569	660		"	"	10.9	-		-10.9		163.1		+447	-486	916,246 655,690
570	330		"	"	8.3	-		-8.3		165.7		+223	-243	916,022 655,933
571	157		316° 17.4'	-1.3°	6.0	-		-6.0		168.0		+111	-111	915,910 656,065
571	0				5.4	-		-5.4		168.6	TP	0	0	915,799 656,176
572	330		152° 37.0'	-1.3°	8.5	-		-2.5		171.5		-218	+248	915,581 656,424
573	660		"	"	3.3	TP	+3.3	-0.0		174.0		-436	+496	915,363 656,672
574	990		152° 37.0'	-1.6°	2.1	89° 30'	+2.9	+0.8		174.8	BS	-650.4	+747.8	915,153 656,915
574	990				5.0	89° 30'	+5.8	+0.8			BS			
	325		320° 53.2' - 180°	-1.6°	76.9	88°	-11.3	-4.4			BS	-246.4	+212.8	
	325				5.0	88° 20'	-9.4	-4.4	170.4		BS			curve
575	0				5.4	-		-5.4		165.0	TP	0	0	914,911 657,119
576	330		160° 5.6'	-1.6°	11.3	91°	-5.8	-17.1		153.3		-307	+121	914,604 657,240
577	660		160° 5.6'	-1.6°	7.8	91°	-11.5	-19.3		151.1	TP	-614.4	+242.8	914,301 657,353
577	660				13.6	90° 30'	-5.8	-17.4			TP			
	990		338° 54.4' - 180°	-1.6°	+11.8	89°	-17.3	-5.5			BS	-913.4	+382.8	
	990				+8.9	89° 10'	-14.4	-5.5	145.6		BS			
578	660		338° 54.4'	-1.6°	3.7	89°	+11.5	+7.8		153.4		+609	-255	914,001 657,472
579	330		"	"	3.8	89°	5.8	+2.0		147.6		+304	-127	913,696 657,600

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
5/1/80		G. Cotcamp		G. Litzinger		6834		GHL mlw		88	488					
AREA		TOPO MAP	STATE	COUNTY	TWP	RANGE	PPM	PARTY MANAGER								
Georgia		Dover	Georgia	Bulloch				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
									145.6							
77	323		337°38.5'	-1.6°	3.8	89°-	+5.6	+11.8		147.4		+295	-131	913,687	657,596	913,710+657,605 1-rod (s.w.)
580	0				5.4	-		-5.4		140.2	π	0	0	913,392	657,737	
581	330		140°-	-1.6°	3.3	89°-	+5.8	+2.5		148.1		-247	+219	913,145	657,946	
582	660		135°54.3'	-1.6°	1.4	89°-	+11.5	+10.1		153.7	TP	-461+4	+472-9	912,935	658,190	
582	660				5.3	88°40'	+15.4	+10.1			TP					
	990		311°17'-180°	-1.6°	+12.9	BH	+5.0	+17.9	173.6		BS	-632+4	+762-9			
	990				+9.2	90°30'	+8.6	+17.8			BS					
583	660		311°17'	-1.6°	7.5	91°-	-11.5	-19.0		154.6		+421	-508	912,728	658,435	
584	330		" "	"	13.4	-		-13.4		160.2		+211	-254	912,518	658,689	
585	0				5.4	-		-5.4		168.2	π	0	0	912,307	658,943	
586	330		124°15'	-1.6°	2.1	87°30'	+14.4	+12.3		185.9		-178	+278	912,129	659,221	
587	660		124°15'	-1.6°	8.7	87°30'	+28.8	+20.1		193.7	TP	-356+4	+556-9	911,955	659,490	
587	660				6.8	87°40'	+26.8	+20.0			TP					
	2640		309°14.3'-180°	-1.6°	+1.7	-		+11.7			BS	-1612+4	+2091-9			
	2640				+14.9	TH	-13.2	+1.7	195.4		BS					
588	2310		309°14.3'	-1.6°	4.5	-		-4.5		190.9		+1411	-1829	911,758	659,743	
589	1980		" "	"	7.5	-		-7.5		187.9		+1209	-1568	911,556	660,004	
590	1650		" "	"	10.4	-		-10.4		185.0		+1008	-1307	911,355	660,265	
591	1320		" "	"	12.8	-		-12.8		182.6		+806	-1095	911,153	660,527	
592	990		" "	"	14.3	-		-14.3		181.1		+605	-784	910,952	660,788	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5/1/80		G. Cotcamp		G. Litzinger		6834		GHL <i>initials</i>		8		49			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Georgia		Dover/Brooklet		Georgia		Bulloch								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
									195.4						
593	660		309° 14.3'	-1.6°	11.9	-	-11.9		183.5			+403	-523	910,750	661,049
594	330		" "	"	8.5	-	-8.5		186.9			+202	-261	910,549	661,311
595	0				5.4	-	-5.4		190.0	π	0	0	0	910,347	661,572
596	330		129° 22'	-1.6°	4.8	-	-4.8		190.6			-202	+261	910,145	661,833
597	570		128° 47'	-1.6°	6.2	-	-6.2		189.2			-344	+454	910,003	662,026
															910,060 + 662,045 Intersect el. 190.
597	660		129° 22'	-1.6°	7.0	-	-7.0		188.4			-404	+522	909,943	662,094
598	990		" "	"	9.0	-	-9.0		186.4			-606	+783	909,741	662,355
599	1320		" "	"	10.3	-	-10.3		185.1			-808	+1043	909,539	662,615
600	1650		" "	"	8.2	-	-8.2		187.2			-1011	+1304	909,336	662,876
601	1980		129° 22'	-1.6°	7.9	-	-7.9		187.5	TP		-1213+4	+1565-9	909,138	663,128
601	1980				2.2	90° 10'	-5.8	-8.0			TP				
	1650		310° 0.6' - 180°	-1.6°	+5.4	89° -	-28.8	-23.4			BS	-1025+4	+1293-9		
	1650				+10.3	88° 50'	-33.6	-23.3	164.2		BS				
602	1320		310° 0.6'	-1.6°	5.9	89° -	+23.0	+17.1		181.3		+820	-1034	908,937	663,379
603	990		" "	"	6.1	89° -	+17.3	+11.2		175.4		+615	-776	908,732	663,636
604	660		" "	"	6.7	89° -	+11.5	+4.8		169.0		+410	-517	908,527	663,895
605	330		" "	"	1.3	-	-	-1.3		162.9		+205	-259	908,322	664,153
606	0				5.4	-	-	-5.4		158.8	π	0	0	908,117	664,412
607	330		130° 2'	-1.6°	7.3	-	-	-7.3		156.9		-205	+258	907,912	664,670
608	660		" "	"	7.2	-	-	-7.2		157.0		-410	+517	907,707	664,929

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-485

Geosource Inc.

DATE 5/1/80	INSTRUMENT MAN G. Cotcamp	ROD MAN G. Litzinger	PARTY NUMBER 6834	NOTES CHECKED BY GWC	LINE NO. 8	PAGE 550
AREA Georgia	TOPO MAP Leefield	STATE Georgia	COUNTY Bulloch	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
									169.2						
609	990	1	130°2'	-1.6°	4.5	-		-4.5		159.7		-615	+775	907,502	665,187
610	1320		130°2'	-1.6°	1.2	-		-1.2		163.0	TP	-821+4	+1039-9	907,300	665,437
610	1320				7.8	TH	+6.6	-1.2			TP				
	311		307°37'→80°	-1.6°	+14.7	-		+14.7			BS	-183	+252-9		
	311				+13.2	BH	+1.6	+14.8	177.8		BS				
π	0				5.4	-		-5.4		172.4	π	0	0	907,117	665,680
BM	73		55°47'	-1.6°	0.9	-		-0.9		176.9		+43	+59-9	907,160	665,730
															907,160+665,730 U.S.G.S. 54 RW# 1979 177.5
															Note: 9,700' (scaled) gap between 610 + 600a.
IF										208.0					
	1278				+6.0	89°20'	-14.9	-8.9	199.1		BS				
	1278				+9.7	89°10'	-18.6	-8.9			BS				vertical
π	0				5.4	-		-5.4		193.7	π				traverse from T-
TP	1490				4.3	-		-4.3		194.8	TP				intersect west to
TP	1490				0.8	90°8'	-3.5	-4.3			TP				sta. 600a.
	860				+7.7	89°	-15.0	-7.3	187.5		BS				
	860				+5.2	89°10'	-12.5	-7.3			BS				
π	0				5.4	-		-5.4		182.1	π				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
5/9/80		G. Catcamp		G. Litzinger		6834		GWC		88	51				
AREA		TOPO MAP	STATE	COUNTY	TWP	RANGE	PPM	PARTY MANAGER							
Georgia		Brooklet	Georgia	Bulloch				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
									187.5						
TP	653				1.7	TH	+3.3	+1.6	}	189.1	TP				
TP	653				2.2	89°40'	+3.8	+1.6		TP					
	670				+10.1	88°	-23.4	-13.3	}	175.8	BS				
	670				+7.0	88°16'	-20.3	-13.3		BS					
TI	0				5.4	-		-5.4		170.9	T	0	0	900,325	659,380 T-intersect.
600a	186		187°35'	-1.8°	14.6	-		-14.6		161.2		-785	-19	900,190	659,361
TP	357		181°40'	-1.8°	11.9	91°	-6.2	-18.1	}	157.7	TP	-357+3	+1	899,971	659,381 split sta. - sharp curve
TP	357				14.0	90°40'	-4.2	-18.2		TP					
	154		308°12'-180°	-1.8°	+3.0	-		+3.0	}	160.7	BS	-91+3	+124		
	154				+3.8	TH	-0.8	+3.0		BS					
601a	0				5.4	-		-5.4		155.3	T	0	0	899,883	659,505
602a	318		116°4'	-1.8°	8.0	89°	+5.5	-2.5	}		TP	-131+3	+290	899,755	659,795 curve
602a	318				7.6	89°4'	+5.2	-2.4		TP					
	1320		335°9.3'-181°	-1.8°	+10.2	90°30'	+11.5	+21.7	}	180.0	BS	-1180+3	+592		
	1320				+6.3	90°40'	+15.4	+21.7		BS					
603a	990		335°9.3'	-1.8°	10.3	84	-5.0	-15.3		164.7		+885	-444	899,463	659,943
604a	660		"	"	9.6	-		-9.6		170.9		+590	-296	899,168	660,091
605a	330		"	"	9.1	-		-9.1		170.9		+295	-148	898,873	660,239
606a	0				5.4	-		-5.4		174.6	T	0	0	898,578	660,387
607a	330		156°0.6'	-1.8°	6.2	88°	+11.5	+5.3		185.3		-297	+144	898,281	660,531

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 5/9/80	INSTRUMENT MAN G. Colcamp	ROD MAN G. Litzinger	PARTY NUMBER 6834	NOTES CHECKED BY GWC	LINE NO. 8	PAGE 52
AREA Georgia	TOPO MAP Brooklet	STATE Georgia	COUNTY Bulloch	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.	
									180.0					
608a	660		156° 0.6'	-1.8°	10.9	88° -	+23.0	+12.1			TP	-594+3	+287	897,987 660,674
608a	660				7.8	88° 16'	+20.0	+12.2		192.2	TP			
	934		339° 15' - 180°	-1.8°	+2.6	TH	-4.7	-2.1	190.1		BS	-828+3	+432	
	934				+6.0	89° 30'	-8.2	-2.2			BS			
TL TL	711		339° 25.6'	-1.8°	0.5	-	-	-0.5		189.6		+631	-327	897,793 660,779 8-Way Injunc.
609a	604		333° 42'	-1.8°	0.9	-	-	-0.9		189.2		+533	-284	897,695 660,822
610a	274				2.7	-	-	-2.7		187.4		+242	-129	897,904 660,977
π	0				5.4	-	-	-5.4		184.7	π	0	0	897,162 661,106
611	45		97° 54.2'	-1.8°	6.8	-	-	-6.8		183.3		-5	+45	897,157 661,151
612	375		97° 54.2'	-1.8°	14.1	BH	-1.9	-16.0		174.1	TP	-40+3	+373	897,125 661,979
612	375				13.8	99° 20'	-2.2	-16.0			TP			
	332		272° 30' - 180°	-1.8°	+1.0	TH	-1.7	-0.7			BS	-4+3	+332	
	332				+1.3	89° 40'	-1.9	-0.6	173.5		BS			
613	0				5.4	-	-	-5.4		168.1	π	0	0	897,124 661,811 setup opposite sta.
614	330		132° 40'	-1.8°	0.7	TH	+1.7	+1.0		174.5		-216	+250	896,908 662,061
615	662		132° 40'	-1.8°	3.4	89° -	+11.6	+8.2		181.7	TP	-433+2	+501	896,693 662,312
615	662				1.4	89° 10'	+9.6	+8.2			TP			
	1320		313° 41.8' - 180°	-1.8°	+14.8	89° 20'	-15.4	-0.6			BS	-881	+983	
	1320				+13.3	89° 24'	-13.8	-0.5	181.2		BS			
616	990		313° 41.8'	-1.8°	2.7	89° 20'	+11.5	+8.8		190.0		+661	-737	896,973 662,558

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 5/9/80	INSTRUMENT MAN G. Cotcamp	ROD MAN G. Litzinger	PARTY NUMBER 6837	NOTES CHECKED BY Gwc	LINE NO. 8	PAGE 53
AREA Georgia	TOPO MAP Brooklet	STATE Georgia	COUNTY Bulloch	TWP	RANGE	PPM

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.	
									181.2					
617	660		313° 41.8'	-1.8°	6.8	89° -	+11.5	+4.7		185.9		+441	-491	896,253 662,804
618	330		" "		2.2	-		-2.2		179.0		+220	-246	896,032 663,049
619	0				5.4	-		-5.4		175.8	TP	0	0	895,812 663,295
620	330		129° 3'	-1.8°	2.3	-		-2.3		178.9		-200	+26.3	895,612 663,558
621	660		129° 3'	-1.8°	2.0	-		-2.0		179.2	TP	-399	+525	895,413 663,820
621	660				5.3	TH	+3.3	-2.0			TP			
	660		296° 38.5' - 180°	-1.8°	+3.0	TH	-3.3	-0.3	178.9		BS	-277	+599	
	660				+5.4	89° 30'	-5.8	-0.4			BS			
622	330		293° 10'	-1.8°	0.6	TH	+1.7	+1.1		180.0		+120	-307	895,256 664,112
623	0				5.4	-		-5.4		173.5	TP	0	0	895,136 664,419
624	330		113° 38'	-1.8°	9.4	-		-9.4		169.5	TP	-123	+366	895,013 664,725
624	330				11.1	TH	+1.7	-9.4			TP			
	1320		303° 5' - 180°	-1.8°	+2.8	TH	-6.6	-3.8			BS	-685	+1128	
	1320				+4.1	89° 40'	-7.7	-3.6	165.9		BS			
625	990		303° 5'	-1.8°	2.3	TH	+5.0	+2.7		168.6		+514	-846	894,842 665,007
626	660		" "		3.0	TH	+3.3	+0.3		166.6		+343	-564	894,671 665,289
627	330		" "		2.3	-		-2.3		163.6		+171	-282	894,499 665,571
628	0				5.4	-		-5.4		160.5	TP	0	0	894,328 665,853
629	330		122° 10.3'	-1.8°	8.5	-		-8.5		157.4		-147	+285	894,161 666,138
IT	550		122° 2'	-1.8°	8.9	-		-8.9		157.0		-277	+475	894,051 666,328

894,055 + 666,333
4-Way Intersect. el. 158

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5/9/80		G. Catcamp		G. Litzinger		6834		GWC n/w		8		54			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Georgia		Brooklet/Leetfield		Georgia		Bulloch								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
									165.9						
630	660		122°10.3'	-1.8°	10.8	-		-10.8		155.1		-334	+569	893,994	666,922
631	990		"		12.1	-		-12.1		153.8		-501	+854	893,827	666,707
632	1320		122°10.3'	-1.8°	13.4	-		-13.4		152.5	TP	-667	+1139-3	893,661	666,989
632	1320				6.8	BH	-6.6	-13.4			TP				
	990		299°52.6'-180°	-1.8°	+1.8	-		+1.8			BS	-388	+911-3		
	990				+4.8	89°50'	-2.9	+1.9	154.4		BS				
633	660		299°52.6'	-1.8°	2.9	-		-2.9		151.5		+259	-607	893,532	667,290
634	330		"		3.5	-		-3.5		150.9		+129	-304	893,402	667,593
635	0				5.4	-		-5.4		149.0	π	0	0	893,273	667,897
636	330		127°29'	-1.8°	4.1	-		-4.1		150.3		-192	+268	893,081	668,165
637	660		"		4.1	-		-4.1		150.3		-385	+536	892,888	668,433
637	842		126°54.2'	-1.8°	3.0	-		-3.0		151.4	TP	-484	+689-3	892,789	668,583
637	842				7.2	TH	+4.2	-3.0			TP				
	478		392°30'-180°	-1.8°	+4.3	-		+4.3	155.7		BS	-451	+158-3		
	478				+6.7	TH	-2.4	+4.3			BS				
638	320		340° -	-1.8°	5.0	-		-5.0		150.7		+297	-119	892,635	668,619
639	0				3.54	-		-5.4		150.3	π	0	0	892,338	668,738
6A0	330		109°19'	-1.8°	7.9	-		-7.9		147.8		-99	+315	892,239	669,053
6A1	660		109°19'	-1.8°	9.5	-		-9.5		146.2	TP	-199	+624-3	892,139	669,364
6A1	660				6.2	BH	-3.3	-9.5			TP				

892,805 + 668,570
Y-intersect. el. 152.

pavement
dist road

Brooklet Quad.

Leetfield Quad.

set up opposite sta.

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 5/9/80	INSTRUMENT MAN G. Cutcamp	ROD MAN G. Litzinger	PARTY NUMBER 6837	NOTES CHECKED BY Gul	LINE NO. 8	PAGE 55
AREA Georgia	TOPO MAP Leefield	STATE Georgia	COUNTY Bulloch	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 TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
641										146.2				
	1320		291°31'-180°	-1.8°	+1.2	-		+1.2	147.4		BS	-446	+1242-3	
	1320				+78	TH	-6.6	+1.2		BS				
642	990		292°07'	-1.8°	2.8	-		-2.8		144.6		+344	-928	892,037 669,675
643	660		292°49'	-1.8°	2.8	-		-2.8		144.6		+237	-616	891,930 669,987
644	330		"	"	4.1	-		-4.1		143.3		+118	-308	891,811 670,295
645	0				5.4	-		-5.4		142.0	TP	0	0	891,693 670,603
646	330		112°51.4'	-1.8°	4.7	-		-4.7		142.7		-119	+308	891,574 670,911
647	660		"	"	5.0	-		-5.0		142.4		-237	+616	891,456 671,219
648	990		"	"	5.8	-		-5.8		141.6		-356	+924	891,337 671,527
649	1320		112°51.4'	-1.8°	7.5	-		-7.5		139.9	TP	-474	+1232	891,219 671,835
649	1320				0.9	BH	-6.6	-7.5			TP			
	987		289°43.3'-180°	-1.8°	+5.7	-		+5.7	145.6		BS	-304	+939	curve
	987				+0.8	BH	+4.9	+5.7		BS				
650	660		288°2'	-1.8°	6.4	-		-6.4		139.2		+185	-634	891,100 672,140
651	330		285°-	-1.8°	5.8	-		-5.8		139.8		+75	-621	890,990 672,153
652	0				5.4	-		-5.4		140.2	TP	0	0	890,915 672,774
<u>TP</u>	222		86°32'	-1.8°	7.9	-		-7.9		137.7		+20	+221	890,935 672,995
653	330		87°24.5'	-1.8°	12.8	-		-12.8		132.8	TP	+26	+329	890,941 673,103
653	330				11.1	BH	-1.7	-12.8			TP			

horiz. correct. y=+26'
x=-18'
890,935+672,995
T-intersect

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
5/10/80		G LITZINGER		G COTCAMID		6834		M		8	56			
AREA		TOPO MAP		STATE		COUNTY		RANGE		PPM		PARTY MANAGER		
Georgia		Leefield		Georgia		Bulloch						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.	
653										132.8				
	990		255° 16.3' - 180°	-1.8°	+4.4	88° 10'	-31.7	-27.3	105.5		BS	+282	+949	
	990				+7.1	88° -	-34.5	-27.4			BS			
654	640		255° 16.3	-1.8°	7.6	88° -	+23.0	+15.4		120.9		-188	-633	891,035 673,419
655	330		" "	"	2.3	89° -	+5.8	+3.5		109.0		-94	-316	891,129 673,736
656	0				5.4	-		-5.4		100.1	TP	0	0	891,223 674,052
657	330		78° 3.5'	-1.8°	7.3			-7.3		98.2		+78	+321	891,301 674,373 BRIDGE
658	650		69° 40'	-1.8°	3.8	-		-3.8			TP	+245	+602	891,468 674,654 CURVE
658	650				7.0	TH	+3.3	-3.7		101.8	TP			
	330		238° 22.2' - 180°	-1.8°	+13.9	-		+13.9			BS	+182	+275	
	330				+12.3	BH	+1.7	+14.0	115.8		BS			
659	0				5.4	-		-5.4		110.4	TP	0	0	891,650 674,929
660	330		42° 47.8'	-1.8°	0.8	89° -	+5.8	+5.0		120.8		+249	+216	891,899 675,145
661	647		49° 28.8'	-1.8°	7.1	88° -	+22.6	+15.7		131.3	TP	+436	+478	892,086 675,407
661	647				5.3	88° 10'	20.7	+15.4			TP			
	1320		257° 11.1' - 180°	-1.8°	+13.3	-		+12.3			BS	+333	+1277	
	1320				+5.8	BH	+6.6	+12.4	143.7		BS			
662	990		257° 11.1'	-1.8°	6.5	-		-6.5		137.2		-250	-958	892,169 675,726
663	640		" "	"	4.8	-		-4.8		138.9		-167	-639	892,252 676,045
664	330		" "	"	4.6	-		-4.6		139.1		-83	-319	892,336 676,365
665	0				5.4	-		-5.4		138.3	TP	0	0	892,419 676,684

SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
5/10/80		G. LITZINGER		G. COLCAMP		6934		GHL New		8	57				
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
Georgia		LEE FIELD		Georgia		Bulloch					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
									143.7						
666	330		77° 30.6	-1.8°	7.4	-		- 7.4		136.3		+81	+320	892,500	677,004
667	660		"	"	7.3	-		- 7.3		136.4		+162	+640	892,581	677,324
668	985		79° 49.8'	-1.8°	7.6	-		- 7.6			TP	+205	+964	892,624	677,648
668	985				2.6	BH	-4.9	- 7.5		136.2	TP				
	1320		284° 31.4' -180	-1.8°	+0.4	-		+ 0.4			BS	-291	+1288		
	1320				+7.0	TH	-6.6	+ 0.4	136.6		BS				
669	990		284° 31.4'	-1.8°	2.9	-		- 2.9		133.7		+218	-966	892,551	677,970
670	660		"	"	3.6	-		- 3.6		133.0		+145	-694	892,478	678,292
671	330		"	"	3.6	-		- 3.6		133.0		+73	-322	892,406	678,614
672	0				5.4	-		- 5.4		131.2	TP	0	0	892,333	678,936
673	330		104° 54.7'	-1.8°	7.7	-		- 7.7		128.9		-75	+321	892,258	679,257
673	587		103° 28.6'	-1.8°	9.3	-		- 9.3		127.3		-119	+575	892,214	679,511
674	660		107° 18.2'	-1.8°	8.4	-		- 8.4		127.8	TP	-176-2	+636+1	892,155	679,573
674	660				5.5	BH	-3.3	- 8.8			TP				
	330		332° 7.7' -180	-1.8°	+2.2	-		+ 2.2	130.0		BS	-287-1	+163+1		
	330				+3.8	TH	-1.7	+ 2.1			BS				
675	0				5.4	-		- 5.4		124.6	TP	0	0	891,967	679,737
676	330		165° 29.1'	-1.8°	7.6	-		- 7.6		122.4		-317	+93	891,550	679,830
677	660		169° 35.2'	-1.8°	13.1	-		- 13.1	+0.1	117.0	TP	-645-1	+140+1	891,221	679,878
677	660				9.8	BH	-3.3	- 13.1			TP				

↑ dirt road
892,215 + 679,500
Y-intersect.

↓ pavement

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
5/10/80		G. LITZINGER		G. COTCAMP		6834		SHI		8	58			
AREA		TOPO MAP	STATE	COUNTY	TWP	RANGE	PPM	PARTY MANAGER						
Georgia		LeeField	Georgia	Bulloch				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.	
677										117.0				
	990		352° 45.1' - 180°	-1.8°	79.4	89° -	-17.3	-7.97			BS	-978.-	+156.+1	
	990				76.6	89° 10'	-14.4	-7.85	109.2		BS			
678	660		352° 45.1	-1.8°	6.5	89° 10'	+9.6	+3.1		112.3		+652	-104	890,894 679,931
679	330		"	"	1.3	—		-1.3		107.9		+326	-52	890,568 679,983
680	0				5.4	—		-5.4		103.8	TP	0	0	890,242 680,035
681	330		161° 36.3	-1.8°	12.0	—		-12.0		97.2		-310	+114	889,932 680,149
682	660		"	"	14.2	BH	-3.3	-17.5		91.7		-619	+228	889,623 680,263
683	990		"	"	13.0	90° 30'	-8.6	-21.6		87.6		-929	+342	889,313 680,377
684	1320		161° 36.3	-1.8°	9.9	90° 30'	-11.5	-21.47		87.8	TP	-1239.-	+456.+1	889,002 680,992
684	1320				6.2	90° 40'	-15.4	-21.65			TP			
	987		327° 27.7' - 180	-1.8°	+5.5	—		+5.57	93.3		BS	-815.-	+557.+1	
	987				+0.5	BH	+4.9	+5.45			BS			
685	660		327° 27.7'	-1.8°	6.6	—		-6.6		86.7		+545	-372	888,731 680,678
686	330		355° 48.2	-1.8°	6.7	—		-6.7		86.6		+291	-155	888,477 680,895
687	0				5.4	—		-5.4		87.9	TP	0	0	888,186 681,050
688	330		172° 36.1'	-1.8°	4.2	—		-4.2		89.1		-326	+53	887,860 681,103 BRIDGE
689	660		"	"	5.3	—		-5.3		88.0		-652	+106	887,534 681,156
690	990		"	"	6.8	—		-6.8		86.5		-977	+158	887,209 681,208
691	1320		172° 36.1'	-1.8°	8.2	—		-8.22	+0.1	85.2	TP	-1303.-	+211.+1	886,882 681,262
691	1320				14.8	TH	+6.6	-8.25			TP			

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
5/10/80		G LITZINGER		G COLAMP		6834		GHL		8	59					
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER						
GEORGIA		Leefield		Georgia	Bulloch					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	
691										85.2						
	660		350° 51.5' -180	-1.8°	+12.0	-		+12.0			BS	-648-1	+125+1			
	660				+8.7	BH	+3.3	+12.0	97.2		BS					
692	330		347° 13.1'	-1.8°	10.4	-		-10.4		86.8		+319	-83	886,552	681,305	
693	0				5.9	-		-5.4		91.8	TP	0	0	886,233	681,388	Point
694	330		152° 2'	-1.8°	2.6	89°-	+5.8	+3.2		100.4		-286	+169	885,947	681,552	
695	650		143° 41.2'	-1.8°	5.4	88°-	+22.7	+17.3	+0.1	114.6	TP	-511-1	+401+1	885,721	681,790	
695	650				3.6	89°10'	+20.8	+17.2			TP					CURVE
	650		291° 55.9' -180	-1.8°	+11.9	-		+11.9			BS	-224-1	+610+1			"
	650				+8.6	BH	+3.3	+11.9	126.5		BS					
696	330		284° 4'	-1.8°	4.7	-		-4.7		121.8		+70	-322	885,564	682,079	
697	0				5.4	-		-5.4		121.1	TP	0	0	885,496	682,401	
698	330		100° 20.9'	-1.8°	4.3	-		-4.3		122.2		-49	+326	885,447	682,727	
699	660		" "		5.1	-		-5.1		121.4		-98	+653	885,398	682,054	
700	990		100° 20.9'	-1.8°	5.2	-		-5.2	+0.1	121.4	TP	-147-1	+979+1	885,348	683,381	
700	990				10.2	TH	+5.0	-5.2			TP					
	1320		279° 16.3' -180	-1.8°	+2.9	-		+2.9	124.3		BS	-172-1	+1309+1			
	1320				+9.4	TH	-6.6	+2.9			BS					
701	990		279° 16.3'	-1.8°	3.2	-		-3.2		121.1		+129	-982	885,304	684,709	
702	660		" "	" "	3.5	-		-3.5		120.8		+86	-654	885,261	684,037	
703	330		" "	" "	4.3	-		-4.3		120.0		+43	-327	885,218	684,364	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 5/10/80	INSTRUMENT MAN G LITZINGER	ROD MAN G COTCAMP	PARTY NUMBER 6834	NOTES CHECKED BY GHL	LINE NO. 8	PAGE 60
AREA Georgia	TOPO MAP Leefield	STATE Georgia	COUNTY Bulloch	TWP	RANGE	PPM
				PARTY MANAGER DPAVIS		

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.	
									124.3					
704	0				5.4	-		-5.4		118.9	T	0	0	885,175 684,691
705	330		98° 53.3'	-18°	8.4	-		-5.4		115.9		-41	+327	885,134 685,018
706	660		"	"	13.6	-		-13.6		110.7		-82	+655	885,093 685,346
707	990		"	"	14.6	90° 20'	-5.8	-20.4		103.9		-123	+982	885,052 685,673
708	1318		100° 26.7'	-18°	11.7	90° 40'	-15.3	-27.0	+0.1	97.4	TP	-198-1	+1303+	884,970 685,995
708	1318				7.8	90° 50'	-19.2	-27.0			TP			
	660		302° 22.8' -180	-18°	+5.4	-		+5.4			BS	-336-1	+568	
	660				+8.7	TH	-3.3	+5.45	102.8		BS			
709	330		302° 22.8'	-18°	10.3	-		-10.3		92.5		+168	-284	884,807 686,279
710	0				5.4	-		-5.4		97.4	T	0	0	884,639 686,563
711	330		146° 15.9'	-18°	4.4	89°	+5.8	+1.4		104.2		-269	+192	884,370 686,755
712	660		149° 30.2'	-18°	3.9	89°	+11.5	+7.6	+0.1	110.5	TP	-558-1	+353	884,080 686,916
712	660				2.0	89° 10'	+9.6	+7.6			TP			
	1320		337° 46.2' -180	-18°	+11.5	89° 20'	-15.4	-3.9			BS	-1206-1	+538	
	1320				+7.7	89° 30'	-11.5	-3.8	106.7		BS			
713	990		337° 46.2'	-18°	11.1	89°	+17.3	+6.2		112.9		+904	-403	883,777 687,051
714	660		"	"	7.2	89°	+11.5	+4.3		111.0		+603	-269	883,476 687,185
715	330		"	"	1.5	-		-1.5		105.2		+301	-134	883,174 687,320
716	0				5.4	-		-5.4		101.3	T	0	0	883,823 687,454
717	330		157° 40.8	-18°	5.8	-		-5.8		100.9		-301	+135	882,572 687,589

CURVE
OPP STA

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
5/1/80		G. Cotcamp		G.L. Tzinger		6837		GHL rlv		8	62						
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
Georgia		Leaffield		Georgia	Bulloch					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		
									105.9								
724	990		157° 6.2'	-1.8°	3.2	89° -	+17.3	+14.1		120.0	TP	-899.4	+914.	880,475	688,549	I.P. opposite sta.	
724	990				6.2	88° 50'	+20.2	+14.0			TP						
	990		347° 30.8' -180°	-1.8°	+7.3	TH	-5.0	+2.3			BS	-959.4	+244				
	990				+5.3	89° 50'	-2.9	+2.4	122.4		BS						
725	660		348° 10'	-1.8°	2.8	-		-2.8		119.6		+641	-156	880,161	688,637		
726	330		" "	"	4.2	-		-4.2		118.2		+321	-78	879,841	688,715		
727	0				5.4	-		-5.4		117.0	X	0	0	879,520	688,793		
728	330		170° 25'	-1.8°	9.4	-		-9.4		113.0		-324	+65	879,196	688,858		
729	660		" "	"	13.2	0H	-3.3	-16.5		105.9		-647	+130	878,873	688,923		
730	990		" "	"	6.6	91° -	-17.3	-23.9		98.5		-971	+195	878,549	688,988		
731	1320		169° 55.3'	-1.8°	4.3	91° -	-23.0	-23.3		95.1	TP	-1292+3	+272	878,231	689,065	I.P. opposite station.	
731	1320				14.3	90° 39'	-13.1	-27.4			TP						
	990		355° 42' -180°	-1.8°	+6.7	91° -	+17.3	+24.0			BS	-984.3	+105-1				
	990				+4.4	91° 8'	+19.6	+24.0	119.1		BS						
732	660		355° 42'	-1.8°	7.0	91° -	-11.5	-18.5		100.6		+656	-70	877,906	689,099		
733	330		" "	"	11.9	-		-11.9		107.2		+328	-35	877,578	689,134		
734	0				5.4	-		-5.4		113.7	X	0	0	877,250	689,169		
735	327		171° 31.6'	-1.8°	3.1	-		-3.1		116.0	TP	-322+3	+58-2	876,931	689,225	curve	
735	327				4.7	TH	+1.6	-3.1			TP						

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445




Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
5/1/80		G. Cotcamp		G. Litzinger		5839		GHL		8	63			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE	PPM	PARTY MANAGER		
Georgia		Leefield		Georgia		Fulloch						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.	
735										116.0				
	1650		334° 45' - 180°	-1.8°	+4.0	-		+4.0			BS	+470+3	+750-2	
	1650			"	+12.3	TH	-8.3	+4.0	120.0		BS			
736	1320		334° 45'	-1.8°	2.0	-		-2.0		118.0		+1176	-600	876,690 689,373
737	990		" "	"	3.5	-		-3.5		116.5		+882	-450	876,346 689,523
738	660		" "	"	5.8	-		-5.8		114.2		+588	-300	876,052 689,673
739	330		" "	"	4.8	-		-4.8		115.2		+294	-150	875,758 689,823
740	130		333° 21'	-1.8°	4.7	-		-4.7		115.3		+114	-62	875,578 689,911 875,580 + 689,920 T-rd (east)
740	0				5.9	-		-5.9		114.6	X	0	0	875,464 689,973
741	330		159° 25'	-1.8°	10.0	-		-10.0		110.0		-305	+124	875,159 690,099
742	660		159° 25'	-1.8°	9.4	91° -	-11.5	-20.9		99.1	TP	-610+3	+251-3	874,857 690,221
742	660				14.4	90° 39'	-6.5	-20.9			TP			
	660		330° 7.8' - 180°	-1.8°	+2.2	89° -	-11.5	-9.3			BS	-562+3	+347-3	
	660				+6.1	88° 40'	-15.4	-9.3	89.8		BS			
743	330		330° 7.8'	-1.8°	3.1	-		-3.1		96.7		+281	-173	874,579 690,392
744	0				5.4	-		-5.4		84.4	X	0	0	874,298 690,565
745	330		166° 5.3'	-1.8°	3.1	89° -	+5.8	+2.7		92.5		-318	+89	873,980 690,654
746	660		" "		4.7	88° 40'	+15.4	+10.7		100.5		-635	+174	873,663 690,743
747	990		166° 5.3'	-1.8°	9.2	88° 30'	+25.9	+16.7		106.5	TP	-753+3	+268-3	873,348 690,830
747	990				12.0	88° 20'	+28.8	+16.8			TP			

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 5/1/80		INSTRUMENT MAN G. Cotcamp		ROD MAN G. Litzinger		PARTY NUMBER 6834		NOTES CHECKED BY CWC. rlv		LINE NO. 8		PAGE 64				
AREA Georgia		TOPO MAP Leefield		STATE Georgia		COUNTY Bulloch		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	NORTH+ SOUTH - LAT.	EAST+ WEST - DEP.	COORDINATES Y X		REMARKS
747										106.5						
	660		342°44'180"	-1.8°	+12.7	BH	+3.3	+16.0	122.5		BS	-624.3	+216.3			
	660				+12.1	90°20'	+3.8	+15.9		BS						
748	330		342°44'	-1.8°	11.1	-		-11.1		111.4		+312	-108	873,039	690,935	
749	0				5.4	-		-5.4		117.1	X	0	0	872,727	691,043	horiz. correct. y=+32 x=-17
≠	188		162°31'	-1.8°	2.3	-		-2.3		120.2		-177	+62	872,550	691,105	872,550 + 691,105 T-rd(west) el. 119.7
750	330		165°57.2'	-1.8°	1.6	-		-1.6		120.9		-317	+90	872,410	691,133	
751	660		" "	"	2.0	TH	+3.3	+1.3		123.8		-635	+180	872,092	691,223	
752	990		165°57.2'	-1.8°	5.0	TH	+5.0	+0.0		122.5	TP	-952.3	+270	871,778	691,313	
752	990				8.7	89°30'	+8.6	-0.1			TP					
	1320		345°40.2'-190"	-1.8°	+2.3	-		+2.3			BS	-1268.3	+367			
	1320				+8.9	TH	-6.6	+2.3	124.8		BS					
BM	1540		344°51.5'	-1.8°	1.8	-		-1.8		123.0		+1473	-449	871,986	691,231	el. 122.8 USGS 58 RWH 1979
753	990		345° 40.2'	-1.8°	3.3	-		-3.3		121.5		+951	-275	871,464	691,465	
754	660		" "	"	3.9	-		-3.9		120.9		+634	-183	871,147	691,497	
755	330		" "	"	4.5	-		-4.5		120.3		+317	-92	870,830	691,588	
756	0				5.4	-		-5.4		119.4	T	0	0	870,573	691,680	
757	330		164° 56.8'	-1.8°	3.8	-		-3.8		121.0		-316	+96	870,197	691,776	
758	660		" "	"	2.9	-		-2.9		121.9		-632	+191	869,881	691,871	
759	990		" "	"	1.6	-		-1.6		123.2		-947	+287	869,566	691,967	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
5/2/80		G. LITZINGER		M. MARINO		6834		G.W.C. <i>W.L.W.</i>		8	65					
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER					
GEORGIA		Leefield		Georgia		Bulloch					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
									124.8							
760	1320		164° 56.8'	-1.8°	3.5	-		-3.5		121.3	TP	-1263 ⁺³	+383	869,253	692,063	
760	1320				10.1	TH	+6.6	-3.5			TP					
	1450		346° 2.3' -180	-1.8°	+6.1	TH	-8.3	-2.2			BS	-1588 ⁺³	+448			
	1650				7.8	89° 50'	-4.8	-2.0	2.1	119.2	BS					
1F	1620		346° 11.2'	-1.8°	5.9	TH	+8.1	+2.2		121.4		+1560	-436	869,229	692,075	869,245 + 692,085 T-rd (east)
761	1320		" "	"	6.4	TH	-6.6	+0.2		119.4		+1271	-355	868,939	692,156	
762	990		" "	"	0.9	-		-0.9		118.4		+953	-266	868,621	692,245	
763	660		" "	"	2.6	-		-2.6		116.6		+636	-178	868,304	692,333	
764	330		" "	"	3.5	-		-3.5		115.7		+318	-89	867,986	692,422	
765	0				5.4	-		-5.4		113.8	TP	0	0	867,668	692,571	
766	330		165° 18.8'	-1.8°	7.9	-		-7.9		111.3		-316	+94	867,352	692,605	
767	660		" "	"	8.8	-		-8.8		110.4		-633	+187	867,035	692,698	
768	990		" "	"	7.6	-		-7.6		111.6		-949	+281	866,719	692,792	
769	1320		" "	"	9.0	-		-9.0		111.2		-1266	+375	866,402	692,886	
770	1650		165° 18.8'	-1.8°	3.5	90° 20'	-9.6	-13.1	13.0	106.2	TP	-1582 ⁺³	+468	866,089	692,979	
770	1650				8.1	90° 10'	-4.8	-12.9			TP					
	990		333° 31.2' -180	-1.8°	+6.0	-		+6.0			BS	-872 ⁺³	+469			
	990				+11.0	TH	-5.0	+6.0	112.2		BS					
771	660		333° 31.2'	-1.8°	9.6	-		-9.6		102.4		+581	-313	865,861	693,135	
772	330		" "	"	9.7	-		-9.7		102.5		+291	-156	865,511	693,292	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
5/2/80		G. L. J. JAMES		M. MARINO		6834		G.W.C.		8	66				
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
GEORGIA		Leefield/Stilson		Georgia		BULLOCH					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
									112.2						
773	0				5.4	-		-5.4		106.8	TP	0	0	865,220	693,448
774	330		152° 34.3'	-1.8°	4.5	-		-4.5		107.7		-288	+161	864,937	693,609
775	660		152° 34.3'	-1.8°	6.5	-		-6.5		105.7	TP	-576 ⁺	+322	864,645	693,770
775	660				9.8	TH	+3.3	-6.5			TP				
	660		335° 21.8' -180	-1.8°	+13.7	88° 20'	-19.2	-6.5			BS	-591 ⁺	+294		
	660				+14.6	89° 10'	-21.1	-6.5	99.2		BS				
Y	374		335° 32.4'	-1.8°	4.2	88° -	+13.0	+8.8		108.0		+335	-165	864,390	693,899
			" "	"	2.7	88° -	+11.5	+8.8		108.0		+296	-146	864,351	693,918
776	330														Stillson Quad.
777	0				3.7	-		-5.4		93.8	TP	0	0	864,055	694,064
778	324		142° 32'	-1.8°	11.5	91° -	-5.7	-17.2			TP	-252	+206	863,803	694,270
778	326				10.5	91° 10'	-6.6	-17.1		82.1	TP				
	330		317° 34.2' -180	-1.8°	+0.2	89° 40'	-1.9	-1.7	80.4		BS	-236	+230		
	330				+1.1	89° 30'	-2.9	-1.8			BS				
779	0				5.4	-		-5.4		75.0	TP	0	0	863,567	694,500
780	330		156° 0'	-1.8°	10.0	-		-10.0		70.4	TP	-297	+144	863,270	694,644
780	330				11.7	TH	+1.7	-10.0			TP				
	330		351° 10.6' -180	-1.8°	+14.7	-		+14.7			BS	-324	+61		
	330				+13.1	8H	+1.7	+14.8	85.2		BS				
781	0				5.4	-		-5.4		79.8	TP	0	0	862,946	694,705

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
5/2/80		C LITZINGER		M. Monardo		6834		G.W.C. <i>rlw</i>		8	67			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE	PPM	PARTY MANAGER		
GEO 445		Stilson		Georgia		Bulloch						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.	
									8572					
782	328		155° 21.6'	-1.8°	0.4	86° 30'	+20.0	+19.6		104.8	TP	-293	+148	862,653 694,853 CURVE
782	328				1.4	86° 20'	+30.9	+19.5			TP			
	1650		331° 22.4' -180	-1.8°	+8.7	90° 20'	+9.6	+18.3			BS	-1423	+836	
	1650				+13.5	90° 10'	+4.8	+18.3	123.1		BS			
783	1320		331° 22.4'	-1.8°	10.9	-	-	-10.9		112.2		+1138	-668	862,368 695,021
784	990		" "	"	9.6	-	-	-9.6		113.5		+854	-501	862,084 695,181
785	660		" "	"	7.8	-	-	-7.8		115.3		+569	-334	861,799 695,355
786	330		" "	"	6.4	-	-	-6.4		116.7		+285	-167	861,515 695,522
787	0				5.4	-	-	-5.4		117.7	TP	0	0	861,230 695,659
BM	102		157° 39.7'	-1.8°	5.3	-	-	-5.3		117.8		-29	+17	861,201 695,706 861,230 + 695,695 4-way Intersect. el. 117.5 U.S.G.S. 59 RWH 1974
788	330		157° 57.8'	-1.8°	7.7	-	-	-7.7		115.4		-286	+164	860,914 695,853
789	660		" "	"	8.6	-	-	-8.6		114.5		-573	+328	860,657 696,017
790	990		" "	"	9.3	-	-	-9.3		113.8		-859	+493	860,371 696,182
791	1320		" "	"	12.4	-	-	-12.4		110.5		-1195	+657	860,085 696,346
792	1650		157° 57.8'	-2.0°	13.5	-	-	-13.5		109.6	TP	-1428	+826	859,862 696,515
792	1650				5.2	BH	-8.3	-13.5			TP			
	660		335° 3.7' -180	-2.0°	+3.9	89° 20'	-7.7	-3.8			BS	-588	+299	
	660				+5.8	89° 10'	-9.6	-3.8	105.8		BS			
793	330		335° 3.7'	-2.0°	5.4	89° -	+5.8	+3.4		109.2		+294	-150	859,508 696,664

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
5/2/80		G. LITZINGER		M. BARNHART		6854		G.W.C. [initials]		88	68					
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER						
GEOB91A		Stilson		GEORGIA	BOLLOCH					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	X
									105.8							
791	84		341° 27.4'	-2.0°	2.9	89°	+1.5	-1.4		104.4		+79	-29	857,293	696,785	857,305 + 696,795 Txd NW
794	0				5.4	-		-5.4		100.4	ST	0	0	859,214	696,814	
796	327		145° 44.6'	-2.0°	12.9	-		-12.9		92.9	TP	-264	+193	858,950	697,005	CURVE
795	327				11.3	BH	-1.6	-12.9			TP					
	1320		315° 47.4' - 180°	-2.0°	+13.7	70° 30'	+11.5	+25.2			BS	-913	+953			
	1320				+9.8	70° 10'	+15.4	+25.2	118.1		BS					
796	990		315° 47.4'	-2.0°	13.3	70° 30'	-8.6	-21.9		96.2		+685	-715	858,722	697,240	
797	660		" "	"	13.0	-		-13.0		105.1		+457	-476	858,494	697,429	
798	330		" "	"	6.4	-		-6.4		111.7		+228	-238	858,265	697,717	
799	0				5.4	-		-5.4		112.7	ST	0	0	858,037	697,955	
800	330		135° 9.5'	-2.0°	5.8	-		-5.8		112.3		-226	+241	857,811	698,196	
801	660		" "	"	6.4	-		-6.4		111.7		-451	+481	857,586	698,436	
802	990		" "	"	7.3	-		-7.3		110.8		-677	+722	857,360	698,677	
803	1320		135° 9.5'	-2.0°	7.4	-		-7.4		110.7	TP	-903	+963	857,134	698,915	
803	1320				14.0	TH	+6.6	-7.4			TP					
	1320		315° 49.6' - 180°	-2.0°	+5.6	-		+5.6	116.3		BS	-880	+984			
	1320				-12.2	TH	-6.6	+5.6			BS					
804	990		315° 49.6'	-2.0°	7.5	-		-7.3		109.0		+660	-738	856,914	699,159	
805	660		" "	"	8.3	-		-8.3		108.0		+440	-492	856,694	699,405	
806	330		" "	"	5.8	-		-5.8		110.5		+220	-246	856,474	699,651	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
5/21/80		C. L. FONGER		M. MARINO		6831		sal mlu		8	69			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE	PPM	PARTY MANAGER		
Georgia		Stilson		Georgia		Bulloch						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.	
									116.3					
807	0				5.4	-		-5.4		110.9	T	0	0	856,254 699,997
808	330		130° 44.3'	-2.0°	6.6	-		-6.6		109.7		-207	+257	856,047 700,154
809	660				4.3	-		-4.3		112.0		-413	+515	855,841 700,412
810	990		130° 44.3'	-2.0°	4.6	-		-4.6		111.7	TP	-620	+772 ⁻²	855,634 700,667
810	990				9.6	TH	+5.0	-4.6			TP			
	990		324° 9.1'-180'	-2.0°	+2.9	-		+2.9			85	-782	+667 ⁻²	
	990				+7.7	TH	-5.0	+2.9	114.6		85			
811	660		324° 9.1'	-2.0°	2.0	-		-2.0		112.6		+521	-405	855,373 700,867
812	330				4.5	-		-4.5		110.1		+261	-202	855,113 701,070
813	0				5.4	-		-5.4		109.2	T	0	0	854,852 701,272
BM	272		150° 21.7'	-2.0°	4.6	-		-4.6		110.0		-232	+143	854,620 701,415
TL	321		143° 51'	-2.0°	4.3	-		-4.3		110.3		-252	+198	854,600 701,470
814	336		144° 38.8'	-2.0°	4.1	-		-4.1		110.5		-262	+200	854,590 701,972
815	660		" "	"	4.5	-		-4.5		110.1		-525	+400	854,327 701,672
816	990		" "	"	4.3	-		-4.3		110.3		-787	+601	854,065 701,873
817	1320		144° 38.8'	-2.0°	6.7	-		-6.7		107.9	TP	-1049.1	+801	853,802 702,073
817	1320				13.3	TH	+6.6	-6.7			TP			
	1650		325° 7'-180°	-2.0°	7.4	90° 10'	+4.8	+9.2	117.1		85	-1320 ⁻²	+990 ⁺¹	
	1650				7.4	90° 12'	+5.8	+9.2			85			
818	1320		325° 7'	-2.0°	10.2	-		-10.2		106.9		+1056	-792	853,536 702,272

sl. 110.4
U.S.G.S. BORWH 1979
854,600 + 701,470
4-Way Intersect.

horiz. correct. y=+20
x=-17

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE 5/7/80	INSTRUMENT MAN G. Cotcamp	ROD MAN D. Shabeldeen	PARTY NUMBER 6834	NOTES CHECKED BY shl	LINE NO. 8	PAGE 70
AREA Georgia	TOPO MAP Stilson	STATE Georgia	COUNTY Bulloch	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.	
									117.1					
819	990		325° 7'	-2.0°	10.6	-		-10.6		106.5		+792	-594	853,272 702,470
820	660		" "	"	12.0	-		-12.0		105.1		+528	-396	853,008 702,668
821	330		" "	"	6.7	-		-6.7		110.4		+267	-198	852,744 702,866
822	0				5.4	-		-5.4		111.7	TP	0	0	852,480 703,064
823	285		141° 28'	-2.0°	10.8	-		-10.8		106.3		-217	+185	852,263 703,249
823	330		142° 18.3'	-2.2°	14.2	-		-14.2		102.9		-253	+212	852,227 703,276
824	660		142° 18.3'	-2.2°	14.8	90° 30'	-5.8	-20.6		96.5	TP	-506.2	+423.2	851,972 703,489
824	660				9.1	91° -	-11.5	-20.6			TP			
	990		312° 0' -180°	-2.2°	+15.0	90° 20'	+5.8	+20.8	117.3		BS	-634.2	+761.2	
	990				+12.2	90° 30'	+8.6	+20.8			BS			
825	660		310° 42'	-2.2°	8.7	-		-8.7		108.6		+411	-517	851,797 703,735
826	330		" "	"	5.4	-		-5.4		111.9		+205	-258	851,541 703,994
827	0				5.4	-		-5.4		111.9	TP	0	0	851,336 704,252
828	330		129° 52'	-2.2°	4.6	-		-4.6		112.7		-202	+261	851,134 704,513
829	660		" "	"	5.1	-		-5.1		112.2		-403	+522	850,933 704,774
830	990		" "	"	5.6	-		-5.6		111.7		-605	+784	850,731 705,036
831	1320		128° 58'	-2.2°	6.1	-		-6.1		111.2	TP	-790.2	+1057.2	850,544 705,311
831	1320				12.7	TH	+6.6	-6.1			TP			T. P. opposite sta.
	330		323° 41' -180°	-2.2°	+5.7	-		+5.7	116.9		BS	-258.2	+206.2	
	330				+4.0	BH	+1.7	+5.7			BS			

852,270 + 703,220
Trail (sw) el. 107

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 5/7/80	INSTRUMENT MAN G. Cotcamp	ROD MAN O.	PARTY NUMBER 6834	NOTES CHECKED BY shl	LINE NO. 8	PAGE 71
AREA Georgia	TOPO MAP Stilson/Guyton	STATE Georgia	COUNTY Bulloch	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.	
									116.9					
832	0				5.4	-		-5.4		111.5	X	0	0	850,284 705,519
833	330		156°22.4'	-2.2°	4.8	-		-4.8		112.1		-297	+144	849,987 705,663 ↑
834	660		" "	"	4.2	-		-4.2		112.7		-594	+288	849,690 705,807 Stilson Quad.
835	990		156°22.4'	-2.2°	5.9	-		-5.9		111.0	TP	-891-2	+431+2	849,391 705,952 Guyton Quad.
835	990				10.9	TH	+5.0	-5.9			TP			↓
	990		336°17.2'-180°	-2.2°	+1.7	-		+1.7	112.7		BS	-890-2	+433+2	
	990				+6.7	TH	-5.0	+1.7			BS			
836	660		336°17.2'	-2.2°	2.1	-		-2.1		110.6		+594	-288	849,093 706,099
837	330		" "	"	4.5	-		-4.5		108.2		+297	-144	848,796 706,243
838	0				5.4	-		-5.4		107.3	X	0	0	848,499 706,387
839	328		146°5.3'	-2.2°	7.2	-		-7.2		105.5	TP	-265-2	+193+2	848,232 706,582 curve
839	328				8.9	TH	+1.6	-7.3			TP			
	1650		315°17.2'-180°	-2.2°	+6.2	-		+6.2	111.7		BS	-1127-2	+1205+2	
	1650				+14.5	TH	-8.3	+6.2			BS			
840	1320		314°46'	-2.2°	4.2	-		-4.2		107.5		+893	-972	847,996 706,817
841	990		" "	"	3.7	-		-3.7		108.0		+670	-729	847,713 707,060
842	660		" "	"	4.7 3.7	-		-3.7		108.0		+946	-486	847,549 707,303
BM X	383		309°13'	-2.2°	5.9	-		-5.9		105.8		+231	-306	847,334 707,483 el. 106.0 U.S.G.S. 61 RWH 1972
X	340		315°12.3'	-2.2°	5.1	-		-5.1		106.6		+232	-249	847,335 707,540 847,335 + 707,540 4-way Intersect
843	330		314°46'	-2.2°	5.1	-		-5.1		106.6		+223	-243	847,326 707,546 horiz. correct. Y=-19' X=+17'

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 5/7/80	INSTRUMENT MAN G. Cotcamp	ROD MAN G. Litzinger	PARTY NUMBER 6834	NOTES CHECKED BY shl	LINE NO. 8	PAGE 772
AREA Georgia	TOPO MAP Guyton	STATE Georgia	COUNTY Bulloch	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
									111.7						
844	0				5.4	-		-5.4		106.3	TP	0	0	847,103	707,789
845	330		138° 8'	-2.2°	6.4	-		-6.4		105.3		-237	+230	846,866	708,019
846	660		" "	"	5.7	-		-5.7		106.0		-474	+459	846,629	708,298
847	980		142° 19'	-2.0°	2.3	BH	-4.9	-7.2		104.5	TP	-754	+626.2	846,349	708,413
847	980				5.5	90° 6'	-1.7	-7.2			TP				
	1320		342° 43' -180°	-2.0°	+3.8	-		+3.8			BS	-1246	+436.2		
	1320				+10.8	TH	-6.6	+3.8	108.3		BS				
848	990		342° 43'	-2.0°	4.0	-		-4.0		104.3		+934	-327	846,037	708,520
849	660		" "	"	3.4	-		-3.4		104.9		+623	-218	845,724	708,629
850	330		" "	"	3.1	-		-3.1		105.2		+311	-109	845,411	708,738
851	79		347° 49'	-2.0°	4.1	-		-4.1		104.2		+77	-19	845,180	708,828
														845,180 + 708,825	cal/ el 104
851	0				5.4	-		-5.4		102.9	TP	0	0	845,103	708,847
852	330		161° 26'	-2.0°	7.9	-		-7.9		100.4		-309	+116	844,794	708,963
853	660		" "	"	6.0	-		-6.0		102.3		-618	+232	844,485	709,079
854	990		159° 26.3'	-2.0°	8.1	-		-8.1			TP	-914	+380.2	844,189	709,225
854	990				13.0	TH	+5.0	-8.0		100.3	TP				
	660		331° 21.7' -180°	-2.0°	+3.9	-		+3.9			BS	-568	+336		
	660				+7.2	TH	-3.3	+3.9	104.2		BS				
855	330		331° 21.7'	-2.0°	3.0	-		-3.0		101.2		+284	-168	843,905	709,393
856	0				5.4	-		-5.4		98.8	TP	0	0	843,621	709,561

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 5/12/80	INSTRUMENT MAN G. Cotcamp	ROD MAN G. Litzinger	PARTY NUMBER 6834	NOTES CHECKED BY ML	LINE NO. 8	PAGE 73
AREA Georgia	TOPO MAP Guyton	STATE Georgia	COUNTY Bulloch	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	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS
												LAT.	DEP.	Y	X			
									104.2									
857	330		151° 16'	-2.0°	2.2	-		-2.2		102.0		-284	+169	843,337	709,730			
858	668		150° 22.2'	-2.0°	0.7	-		-0.72		103.5	TP	-569	+350	843,052	709,911		T.P. opposite sta. - curve	
858	668				4.0	TH	+3.3	-0.75			TP							
	237		15° 55' + 180°	-2.0°	+3.5	-		+3.52			BS	-230	-57					
	237				+4.7	TH	-1.2	+3.55	107.0		BS							
X	0				5.4	-		-5.4		101.6	X	0	0	842,822	709,854		split sta. - sharp curve	
859	98		215° 30'	-2.0°	5.8	-		-5.8		101.2		-82	-54	842,740	709,900			
860	428		215° 30'	-2.0°	6.0	-		-6.02		101.0	TP	-357	-236	842,465	709,618			
860	428				8.1	TH	+2.1	-6.05			TP							
	1413		34° 14.8' + 180°	-2.0°	+8.1	-		+8.12			BS	-1195	-754					
	1413				+5.7	90° 6'	+2.5	+8.25	109.2		BS							
861	1083		34° 14.8'	-2.0°	5.6	-		-5.6		103.6		+916	+578	842,186	709,442			
862	753		" "	"	4.5	-		-4.5		104.7		+637	+402	841,907	709,266			
863	423		" "	"	3.1	-		-3.1		106.1		+358	+226	841,628	709,090			
864	93		" "	"	4.7	-		-4.7		104.5		+79	+50	841,349	708,914			
X	0				5.4	-		-5.4		103.8	X	0	0	841,270	708,864			
865	242		191° 27.3'	-2.0°	7.3	-		-7.3		101.9		-239	-90	841,031	708,824			
866	572		" "	"	7.4	-		-7.4		101.8		-564	-94	840,706	708,770			
867	902		" "	"	5.1	-		-5.1		104.1		-890	-148	840,380	708,716			
868	1232		" "	"	6.6	-		-6.6		102.6		-1215	-202	840,055	708,662			

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
5/12/80		G. Cotcamp		G. Litzinger		6834		[initials]		8	77			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE	PPM	PARTY MANAGER		
Georgia		Guyton		Georgia		Bullach						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.	
									109.2					
869	1562		191°27.3'	-2.0°	6.0	-		-6.0		103.2	TP	-1591	-257	839,729 708,607 last sta. on dist. road.
869	1562				13.8	TH	+7.8	-6.0			TP			
	314		359°43'-180°	-2.0°	+6.3	-		+6.3			BS	-314	+13	
	314				+7.9	TH	-1.6	+6.3	109.5		BS			
Y	113		340°28'	-2.0°	4.8	-		-4.8		104.7		+10.5	-41	839,520 708,579 839,555 + 708,570 intersect.
870	0				5.4	-		-5.4		104.1	X	0	0	839,415 708,620 pavement.
871	330		159° -	-2.0°	5.6	-		-5.6		103.9		-291	+155	839,124 708,775 ↓
872	660		159° -	-2.0°	5.9	-		-5.9		103.6	TP	-583	+310	838,832 708,930
872	660				9.2	TH	+3.3	-5.9			TP			
	2970		334°28.6'-180°	-1.8°	+1.2	-		+1.2			BS	-2639	+1363	
	2970				+15.0	89°41'	-13.8	+1.2	104.8		BS			
873	2640		334°28.6'	-1.8°	1.3	-		-1.3		103.5		+2395	-1212	838,538 709,081
874	2310		" "	"	2.0	-		-2.0		102.8		+2052	-1060	838,245 709,233
875	1980		" "	"	2.7	-		-2.7		102.1		+1759	-909	837,952 709,384
876	1650		" "	"	3.2	-		-3.2		101.6		+1466	-757	837,659 709,536
877	1320		" "	"	3.7	-		-3.7		101.1		+1173	-606	837,366 709,687
878	990		" "	"	4.4	-		-4.4		100.4		+880	-454	837,073 709,839
879	660		" "	"	4.6	-		-4.6		100.2		+586	-303	836,779 709,990
880	330		" "	"	5.2	-		-5.2		99.6		+293	-151	836,486 710,142
881	0		" "	"	5.4	-		-5.4		99.4	X	0	0	836,193 710,293

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE							
5/12/80		G. Colcamp		G. Litzinger		6834		slr slw		8		75							
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER					
Georgia		Guyton		Georgia		Bulloch								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				
									104.8										
882	330		159° 18.8'	-1.8°	5.4	-		-5.4		99.4		-293	+152	835,900	710,445				
BM	382		160° 8'	-1.8°	8.9	-		-8.9		95.9		-355	+141	835,938	710,434			U210 1985 U.S.G.S. PL 96	
883	660		159° 18.8'	-1.8°	5.3	-		-5.3		99.5		-585	+305	835,608	710,598				
884	990		" "	"	5.3	-		-5.3		99.5		-878	+457	835,315	710,750				
885	1320		" "	"	5.8	-		-5.8		99.0		-1171	+609	835,022	710,902				
886	1650		" "	"	5.8	-		-5.8		99.0		-1464	+762	834,729	711,055				
887	1980		" "	"	6.0	-		-6.0		98.8		-1756	+914	834,437	711,207				
888	2310		" "	"	6.5	-		-6.5		98.3		-2079	+1066	834,144	711,359				
889	2640		" "	"	6.8	-		-6.8		98.0		-2342	+1218	833,851	711,571				
890	2970		154° 18.8'	-1.8°	7.3	-		-7.3		97.5	TP	-2635	+1371	833,538	711,664				
890	2970				5.5	90° 2'	-1.7	-7.2			TP								
	2690		334° 23.4' - 180°	-1.8°	+1.8	-		+1.8			BS	-2344	+1215						
	2640				+15.0	TH	-13.2	+1.8	99.3		BS								
891	2310		334° 23.4'	-1.8°	2.4	-		-2.4		96.9		+2051	-1063	833,265	711,816				
892	1980		" "	"	2.9	-		-2.9		96.4		+1758	-912	832,972	711,967				
893	1650		" "	"	3.3	-		-3.3		96.0		+1465	-760	832,679	712,119				
BM	1540		333° -	-1.8°	12.7	TH	+7.7	-5.0		94.3		+1350	-742	832,564	712,137			M117 F221 U.S.G.S. PL 94,2	
894	1320		334° 23.4'	-1.8°	4.0	-		-4.0		95.3		+1172	-608	832,386	712,271				
895	990		" "	"	4.5	-		-4.5		94.8		+879	-456	832,093	712,423				
896	660		" "	"	4.3	-		-4.3		95.0		+586	-304	831,800	712,575				

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE								
5/17/80		G. Cotcamp		G. Litzinger		6834		Bill		8	76								
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE	PPM	PARTY MANAGER							
Georgia		Guyton		Georgia		Bulloch						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				
									99.3										
897	330		334°23.9'	-1.8°	4.3	-		-4.3		95.0		+293	-152	831,507	712,727				
898	0				5.4	-		-5.4		93.9	X	0	0	831,214	712,879				
IL TL	48		136°47'	-1.8°	4.9	-		-4.9		94.4		-34	+34	831,180	712,913			831,210 + 712,910 4-way Intersect.	
899	330		159°10'	-2.0°	6.1	-		-6.1		93.2		-292	+154	830,922	713,033				
900	660		" "	"	6.7	-		-6.7		92.6		-584	+308	830,630	713,187				
901	990		" "	"	7.2	-		-7.2		92.1		-875	+462	830,339	713,341				
902	1320		" "	"	7.6	-		-7.6		91.7		-1167	+616	830,047	713,495				
903	1650		" "	"	7.2	-		-7.2		92.1		-1459	+770	829,755	713,649				
BM	1825		155°25'	-2.0°	6.9	-		-6.9		92.4		-1632	+817	829,582	713,694			D48 1978 U.S.G.S. 92.608	
904	1980		159°10'	-2.0°	7.9	-		-7.9		91.4		-1751	+927	829,463	713,803				
905	2310		" "	"	10.8	-		-10.8		88.5		-2093	+1079	829,171	713,958				
906	2640		159°10'	-2.0°	14.5	-		-14.5		84.8	TP	-2335	+1233	828,879	714,112				
906	2640				13.1	90°2'	-1.5	-14.6			TP								
	2970		334°45.2' - 180°	-2.0°	+14.0	89°30'	-25.9	-11.9			BS	-2640	+1360						
	2970				+12.1	89°32'	-24.2	-12.15	72.8		BS								
907	2640		334°45.2'	-2.0°	4.8	TH	+13.2	+8.4		81.2		+2347	-1209	828,586	714,263				
908	2310		" "	"	6.1	TH	+17.6	+5.5		78.3		+2054	-1058	828,293	714,414				
909	1980		" "	"	6.1	TH	+9.9	+3.8		76.6		+1760	-906	827,999	714,564				
910	1650		" "	"	6.8	TH	+8.3	+1.5		74.3		+1467	-755	827,706	714,717				
911	1320		" "	"	2.8	-		-2.8		70.0		+1174	-609	827,413	714,868				

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE 5/12/80	INSTRUMENT MAN G. Cotcamp	ROD MAN G. Litzinger	PARTY NUMBER 6834	NOTES CHECKED BY shl	LINE NO. 8	PAGE 777
AREA Georgia	TOPO MAP Guyton	STATE Georgia	COUNTY Bulloch	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
									72.8						
912	990		334°45.2'	-2.0°	5.6	-		-5.6		67.2		+880	-453	827,119	715,019
913	660		" "	"	6.0	-		-6.0		66.8		+587	-302	826,826	715,170
914	330		" "	"	5.5	-		-5.5		67.3		+293	-151	826,532	715,321
915	0				5.4	-		-5.4		67.4	π	0	0	826,239	715,472
916	330		154°13'	-2.0°	3.9	-		-3.9		68.9		-292	+154	825,947	715,626
917	392		152°12.5'	-2.0°	3.4	-		-3.4		69.4		-340	+195	825,899	715,667
BM	400		159°5'	-2.0°	3.8	-		-3.8		69.0		-368	+156	825,871	715,628
917	660		154°13'	-2.0°	3.3	-		-3.3		69.5		-584	+308	825,655	715,780
918	990		" "	"	3.3	-		-3.3		69.5		-876	+461	825,363	715,933
919	1320		" "	"	2.8	-		-2.8		70.0		-1168	+615	825,071	716,087
920	1650		" "	"	3.1	-		-3.1		69.7		-1460	+769	824,779	716,241
921	1980		" "	"	3.0	-		-3.0		69.8		-1752	+923	824,487	716,395
922	2310		" "	"	2.8	-		-2.8		70.0		-2044	+1077	824,195	716,549
923	2640		154°13'	-2.0°	15.0	89°44'	+12.3	-2.72	-2.8	70.0	IF	-2336	+1231.2	823,903	716,701
923	2640				13.6	89°46'	+10.7	-2.95			IF				
	2310		334°14.5'-180°	-2.0°	+6.4	-		+6.42			BS	-2044.2	+1076.2		
	2310				+14.6	89°48'	-8.1	+6.55	76.5		BS				
924	1980		334°14.5'	-2.0°	6.2	-		-6.2		70.3		+1752	-922	823,609	716,853
925	1650		" "	"	6.0	-		-6.0		70.5		+1460	-768	823,317	717,007
926	1320		" "	"	6.1	-		-6.1		70.4		+1168	-615	823,025	717,160

825,915 + 715,680
Fid (s.w.)
V310 1953
U.S.G.S. EL. 69

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 5/12/80	INSTRUMENT MAN G. Catcamp	ROD MAN G. Litzinger	PARTY NUMBER 6839	NOTES CHECKED BY slr rlw	LINE NO. 8	PAGE 78
AREA Georgia	TOPO MAP Guyton/Eden	STATE Georgia	COUNTY Bulloch	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.	
									76.5					
927	990		339° 14.5'	-2.0°	5.8	-		-5.8		70.7		+876	-961	822,733 717,314
928	660		"	"	5.8	-		-5.8		70.7		+584	-307	822,441 707,468
929	330		"	"	5.3	-		-5.3		71.2		+292	-154	822,149 717,621
930	0				54	-		-5.4		71.1	X	0	0	821,857 717,775
931	330		154° 5.8'	-2.0°	4.5	-		-4.5		72.0		-292	+154	821,565 717,929
932	660		"	"	5.0	-		-5.0		71.5		-583	+309	821,274 718,084
X	870		153° 12'	-2.0°	5.3	-		-5.3		71.2		-762	+419	821,095 718,194 821,105 + 718,185 T-rd(sw)
BM	980		151° 15'	-2.0°	5.2	-		-5.2		71.3		-842	+501	821,015 718,276 w 210 1955 U.S.G.S. EL 72.
933	990		154° 5.8'	-2.0°	6.2	-		-6.2		70.3		-875	+463	820,982 718,238
934	1320		"	"	7.3	-		-7.3		69.2		-1167	+618	820,690 718,393
935	1650		"	"	7.8	-		-7.8		68.7		-1458	+772	820,399 718,547
936	1980		"	"	8.0	-		-8.0		68.5		-1750	+927	820,107 718,702
937	2310		154° 5.8'	-2.0°	8.0	-		-8.0		68.5	TP	-2041.2	+1081.2	819,814 718,854
937	2310				14.8	89° 50' 90° 50'	+6.7	-8.1			TP			
	2310		339° 16' - 180°	-2.0°	+10.3	-		+10.3			BS	-2045.2	+1075.2	
	2310				+19.4	89° 54'	-4.0	+10.4	78.9		BS			
938	1980		334° 16'	-2.0°	10.4	-		-10.4		68.5		+1753	-921	819,520 719,006
939	1650		"	"	10.7	-		-10.7		68.2		+1460	-768	819,227 719,159 Guyton Quad
940	1320		"	"	10.3	-		-10.3		68.6		+1168	-614	818,935 719,313 Eden Quad
941	990		"	"	10.0	-		-10.0		68.9		+876	-461	818,643 719,464

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 5/12/80	INSTRUMENT MAN G. Cotcamp	ROD MAN G. Litzinger	PARTY NUMBER 6834	NOTES CHECKED BY blw rlu	LINE NO. 8	PAGE 79
AREA Georgia	TOPO MAP Eden	STATE Georgia	COUNTY Bulloch/Bryan	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
									78.9						
942	660		334° 16'	-2.0°	8.7	-		-8.7		70.2		+584	-307	818,351	719,620
943	330		" "	"	6.6	-		-6.6		72.3		+292	-157	818,059	719,773
944	0				54	-		-5.4		73.5	π	0	0	817,767	719,927
945	330		154° 10.2'	-2.0°	3.8	-		-3.8		75.1		-292	+154	817,475	720,081
946	660		" "	"	3.2	-		-3.2		75.7		-584	+308	817,183	720,235
947	990		" "	"	3.5	-		-3.5		75.4		-875	+462	816,892	720,389
948	1320		" "	"	3.7	-		-3.7		75.2		-1167	+616	816,600	720,543
IF	1360		153° 36'	-2.0°	3.3	-		-3.3		75.6		-1197	+646	816,570	720,573
949	1650		154° 10.2'	-2.0°	3.4	-		-3.4		75.5		-1459	+770	816,308	720,697
950	1980		" "	"	3.4	-		-3.4		75.5		-1751	+924	816,016	720,851
951	2310		154° 10.2'	-2.0°	14.5	89° 49'	+10.7	-3.8		75.1	TP	-2043-2	+1078-2	815,722	721,003
951	2310				13.3	89° 46'	+9.4	-3.9			TP				
	1980		334° 31.3' - 180°	-2.0°	+2.2	TH	-9.9	-7.7			BS	-1757-2	+919-2		
	1980				+6.1	89° 36'	-13.8	-7.7	67.4		BS				
952	1650		334° 31.3'	-2.0°	2.9	TH	+8.3	+5.4		72.8		+1464	-761	815,927	721,154
953	1320		" "	"	5.8	TH	+6.6	+0.8		68.2		+1171	-609	815,134	721,304
954	990		" "	"	3.1	-		-3.1		64.3		+878	-457	814,841	721,458
955	660		" "	"	5.3	-		-5.3		62.1		+586	-305	814,599	721,610
956	330		" "	"	5.4	-		-5.4		62.0		+293	-152	814,356	721,763
957	0				5.4	-		-5.4		62.0	π	0	0	813,963	721,915

816,570 + 720,575
Trail (e)

unable to locate B.M.

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Bulloch Co.

Bryan Co.

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SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5/12/80		G. Cotcamp		G. Litzinger		6834		bll rlu		8		80			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Georgia		Eden		Georgia		Bryan									
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
									67.4						
958	330		163° -	-2.0°	3.8	-		-3.8		63.6		-312	+107	813,651	722,022
959	660		165° 47'	-2.0°	0.1	-		-0.1		67.3		-634	+184	813,329	722,099
960	990		166° 23'	-2.0°	2.3	TH	+5.0	+2.7		70.1		-953	+267	813,010	722,182
961	1320		166° 45.2'	-2.0°	4.6	TH	+6.6	+2.0		69.4	TP	-1274.2	+347.1	812,687	722,261
961	1320				5.7	89° 40'	+7.7	+2.0			TP				
	990		398° 24.2' - 180°	-2.0°	+1.5	-		+1.5	70.9		BS	-962.2	+233		
	990				+6.4	TH	-5.0	+1.4			BS				
962	660		348° 24.2'	-2.0°	2.7	-		-2.7		68.2		+642	-155	812,365	722,339
963	330		" "	"	3.7	-		-3.7		67.2		+321	-78	812,044	722,416
≠	190		351° 49'	-2.0°	4.2	-		-4.2		66.7		+187	-34	811,910	722,460
964	0				5.4	-		-5.4		65.5	TP	0	0	811,723	722,494
965	330		168° 69'	-2.0°	5.3	-		-5.3		65.6		-320	+79	811,403	722,573
966	660		" "	"	3.9	-		-3.9		67.0		-641	+158	811,082	722,652
967	990		" "	"	2.8	-		-2.8		68.1		-961	+238	810,762	722,732
968	1320		168° 69'	-2.0°	1.6	-		-1.6		69.3		-1281	+317	810,442	722,811
															EOL#8

horiz. correct. Y = -14'
X = -19'
811,910 + 722,460
Tied el. 66.