

IRVEY NOTES - HIGH RESOLUTION DATA

CO-445

Geosource Inc. Client - COCORP

DATE 7/12/78	INSTRUMENT MAN G. Cotcamp	ROD MAN R. Hulsey	PARTY NUMBER 6834	NOTES CHECKED BY G.W.C.	LINE NO. 2	PAGE 1 of 13
AREA GEORGIA	TOPO MAP Clarksville 7 1/2	STATE Georgia	COUNTY Habersham	TWP	RANGE	PPM
				PARTY MANAGER L.O. Davis		

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS
												LAT.	DEP.	Y	X	
BM				-1°30'						1436.4	BM			1,652,760	688,565	→ scaled
	355		36°11.8' +180°	-1.5°	+9.6	-		+9.6	1446.0		BS	-292	-202			U.S.C. & G.S. F.51 1932
	355				+11.4	TH	-1.8	+9.6			BS	+1	-1			EI. 1436.4 R
Station 1	230		169°47.4'	-1.5°	11.2	-		-11.2		1434.8	TP	-225	+47	1,652,245	688,408	Sta. 1 is 100' south of Route #105
1	230				13.2	89°30'	+2.0	-11.2			TP	+1				Note - Line #2 runs
	880		12°34.6' +180°	-1.5°	+4.1	88°20'	-20.5	-16.4	1418.4		BS	-864	-169			along the south bound
	880				+9.1	88°20'	-25.6	-16.5			BS	+1	-1			lane of a four lane road
2	660		12°34.6'	-1.5°	0.1	89°	+11.5	+11.4		1429.8		+648	+127	1,652,030	688,365	under construction
3	440		11°44'	-1.5°	1.8	89°	+7.7	+5.9		1424.3		+433	+78	1,651,815	688,316	
4	220		9°28'	-1.5°	3.8	89°	+3.8	0		1418.4		+218	+30	1,651,600	688,268	
5	0				5.4	-		-5.4		1413.0	TP	0	0	1,651,382	688,238	
6	220		174°1.8'	-1.5°	9.1	-		-9.1		1409.3		-218	+29	1,651,164	688,267	
7	440		" "	-1.5°	8.4	-		-8.4		1410.0		-436	+57	1,650,946	688,295	
8	660		" "	-1.5°	5.0	-		-5.0		1413.4		-654	+86	1,650,728	688,324	
9	880		174°1.8'	-1.5°	0.6	-		-0.6		1417.8	TP	-873	+114	1,650,510	688,351	
9	880				5.0	TH	+4.4	-0.6			TP	+1				
	1100		359°19.8' -180°	-1.5°	+7.9	91°	+19.2	+27.1	1444.9		BS	-1099	+42			
	1100				+14.3	90°40'	+12.8	+27.1			BS	+1				
10	880		359°19.8'	-1.5°	6.7	91°	-15.4	-22.1		1422.8		+879	-33	1,650,291	688,359	
11	660		" "	-1.5°	6.1	91°	-11.5	-17.6		1427.3		+660	-25	1,650,072	688,367	
12	440		" "	-1.5°	4.9	91°	-7.7	-12.6		1432.3		+440	-17	1,649,852	688,375	

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
7/12/78		G. Cotcamp		R. Hulsey		6217		G.W.C.		2	2						
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
Georgia		Clarksville		Georgia	Habersham					L. J. 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		
									1444.9								
13	220		359° 178'	-1.5°	8.0	-		-8.0		1436.9		+220	-8	1,649,632	688,384		
14	0				5.4	-		-5.4		1439.5	TP	0	0	1,649,412	688,392		
15	220		180° 282'	-1.5°	4.9	-		-4.9		1440.0		-220	+4	1,649,192	688,396		
16	440		" "	-1.5°	7.9	-		-7.9		1437.0		-440	+8	1,648,972	688,400		
17	660		" "	-1.5°	7.1	90° 30'	-5.8	-12.9		1432.0		-660	+12	1,648,752	688,404		
18	880		180° 28.2'	-1.5°	12.1	90° 30'	-7.7	-19.8			TP	-880	+16-1	1,648,532	688,407		
18	880				14.6	90° 20'	-5.1	-19.7		1425.2	TP						
	1540		1° 35.7' +180°	-1.5°	9.4	89°	-26.9	-17.5	1407.7		BS	-1540	-3-1				
	1540				1.4	89° 8'	-18.8	-17.4			BS						
19	1320		1° 35.7'	-1.5°	4.3	89° 20'	+15.4	+11.1		1418.8		+1320	+2	1,648,312	688,405		
20	1100		" "	-1.5°	8.3	89° 20'	+12.8	+4.5		1412.2		+1100	+2	1,648,092	688,405		
21	880		" "	-1.5°	2.2	-		-2.2		1405.5		+880	+1	1,647,872	688,407		
22	660		" "	-1.5°	7.6	-		-7.6		1400.1		+660	+1	1,647,652	688,407		
23	440		" "	-1.5°	8.3	84	-2.2	-10.5		1397.2		+440	+1	1,647,432	688,407		
24	220		" "	-1.5°	10.3	-		-10.3		1397.4		+220	0	1,647,212	688,403		
25	0				5.4	-		-5.4		1402.3	TP	0	0	1,646,992	688,403		
26	220		191° 22'	-1.5°	0.9	-		-0.9		1406.8		-217	-38	1,646,775	688,365		
27	440		195° 21'	-1.5°	3.2	89°	+7.7	+4.5		1412.2		-427	-105	1,646,565	688,298		
28	660		198° 42'	-1.5°	2.7	89°	+11.5	+8.8		1416.5		-630	-195	1,646,362	688,208		

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE								
7/12/78		G. Cotcamp		R. Hulsey		6834		G.W.C.		2	3								
AREA		TOPO MAP	STATE	COUNTY	TWP	RANGE	PPM	PARTY MANAGER											
Georgia		Clarksville	Georgia	Habersham				L.O. Davis											
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS	
												LAT.	DEP.	Y	X				
									1407.7										
29	875		202° 23.2'	-1.5°	8.0	88° 30'	+22.9	+14.9			TP	-818	-312.1	1,146,174	688,090			Shooting interior of curve	
29	875				5.4	88° 40'	+20.4	+15.0		1422.7	TP								
	880		37° 52' +180°	-1.5°	+11.0	BH	+4.4	+15.4	1438.1		BS	-70.9	-522.1						
	880				+128	90° 10'	+2.6	+15.4			BS								
30	660		37° 52'	-1.5°	6.8	BH	-3.3	-10.1		1428.0		+531	+391	1,645,996	687,958				
31	440		" "	-1.5°	7.0	-		-7.0		1431.1		+354	+261	1,645,819	687,828				
32	220		" "	-1.5°	5.9	-		-5.9		1432.2		+177	+130	1,645,642	687,697				
33	0				5.4	-		-5.4		1432.7	X	0	0	1,645,465	687,567				
34	220		219° 6.4'	-1.5°	6.6	-		-6.6		1431.5		-174	-134	1,645,291	687,433				
35	440		" "	-1.5°	8.9	-		-8.9		1429.2		-349	-269	1,645,116	687,298				
36	660		" "	-1.5°	5.9	90° 40'	-7.7	-13.6		1424.5		-523	-403	1,644,942	687,164				
37	880		219° 6.4'	-1.5°	9.7	90° 40'	-10.2	-19.9		1418.2	TP	-697	-537.4	1,644,768	687,029				
37	880				14.8	90° 20'	-5.1	-19.9			TP								
	880	879	50° 41.8' +180°	-1.5°	+14.4	88° -	-30.7	-16.3			BS	-574	-665.1						
	880				+6.8	88° 30'	-23.0	-16.2	1402.0		BS								
38	660		53° 22'	-1.5°	5.8	89° -	+11.5	+5.7		1407.7		+408	+520	1,644,602	686,883				
39	440		56° 35'	-1.5°	2.8	-		-2.8		1399.2		+252	+361	1,644,446	686,724				
40	220		" "	-1.5°	3.5	-		-3.5		1398.5		+126	+180	1,644,320	686,543				
41	0				5.4	-		-5.4		1396.6	X	0	0	1,644,194	686,363				
42	220		239° 4'	-1.5°	4.2	-		-4.2		1397.8		-128	-179	1,644,066	686,184				

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
7/12/78		G. C. Camp		R. Hulsey		6534		GWC		2	4						
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE	PPM	PARTY MANAGER					
Georgia		Clarksville		Georgia		Habersham						L. O. Davis					
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS	
												LAT.	DEP.	Y	X		
									1402.0								
43	440		239° 9'	-1.5°	1.4	-		-1.4		1400.6		-236	-371	1,643,958	685,992		
43	570		237° 2'	-1.5°	5.4	89°	+9.9	+4.5		1406.5		-323	-470	1,643,871	685,893	4-Way Intersection	
44	660		235° 23'	-1.5°	12.3	89°	+11.5	-0.8		1401.2	TP	-389	-533	1,643,805	685,829	beginning of four lane -	
44	660				8.5	89° 20'	+7.7	-0.8			TP					switch geophones to median	
	1320		58° 57.2' +180°	-1.5°	+7.8	89°	-23.0	-15.2	1386.0		BS	-710	-1113				
	1320				14.0	88° 44'	-29.2	-15.2			BS						
45	1100		58° 57.2'	-1.5°	9.5	89°	+19.2	+9.7		1395.7		+592	+927	1,643,687	685,642		
46	880		" "	-1.5°	1.9	89° 30'	+7.7	+5.8		1391.8		+473	+742	1,643,568	685,457		
47	660		" "	-1.5°	1.7	TH	+3.3	+1.6		1387.6		+355	+556	1,643,450	685,271		
48	440		" "	-1.5°	0.6	-		-0.6		1385.4		+237	+371	1,643,332	685,086		
49	220		" "	-1.5°	2.7	-		-2.7		1383.3		+118	+185	1,643,213	684,900		
50	0				5.4	-		-5.4		1380.6	TP	0	0	1,643,095	684,715		
51	220		236° 7.3'	-1.5°	7.7	-		-7.7		1378.3		-127	-179	1,642,968	684,536	over-pass under	
52	440		" "	-1.5°	7.9	BH	-2.2	-10.1		1375.9		-255	-359	1,642,840	684,356	construction	
53	660		" "	-1.5°	9.0	BH	-3.3	-12.3		1373.7		-382	-538	1,642,713	684,177		
54	880		" "	-1.5°	6.4	90° 30'	-7.7	-14.1		1371.9		-509	-718	1,642,586	683,997		
55	1100		" "	-1.5°	6.3	90° 30'	-9.6	-15.9		1370.1		-637	-897	1,642,458	683,818		
56	1320		236° 7.3'	-1.5°	6.7	90° 30'	-11.5	-18.2		1367.8	TP	-744	-1076	1,642,331	683,638		
56	1320				11.6	BH	-6.6	-18.2			TP						

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
7/12/75		G. CoCamp		R. Hulsey		6834		G.V.C.		1	5					
AREA		TOPO MAP	STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
Georgia		Clarksville	Georgia	Habersham					L.O. Davis							
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS
												LAT.	DEP.	Y	X	
56										1367.8				1,642,331	683,638	
	1540		54°48.1' ± 120"	-1.5°	+4.7	89°30'	-13.4	-8.7	1359.1		BS	-920	-1235			
	1540				+9.2	89°20'	-17.9	-8.7		BS						
57	1320		54°48.1'	-1.5°	4.7	89°30'	+11.5	+6.8		1365.9		+789	+1058	1,642,200	683,460	
58	1100		" "	-1.5°	1.4	TH	+5.5	+4.1		1363.2		+657	+882	1,642,068	683,284	
59	880		" "	-1.5°	3.4	TH	+4.4	+1.0		1360.1		+526	+706	1,641,937	683,108	
60	660		" "	-1.5°	1.3	-	-	-1.3		1357.8		+394	+529	1,641,805	682,931	
61	440		" "	-1.5°	3.0	-	-	-3.0		1356.1		+263	+353	1,641,674	682,755	
62	220		" "	-1.5°	4.1	-	-	-4.1		1355.0		+131	+176	1,641,542	682,578	
63	0		" "	-	5.4	-	-	-5.4		1353.7	TP	0	0	1,641,411	682,402	
64	220		234°28'	-1.5°	7.6	-	-	-7.6		1351.5		-133	-175	1,641,278	682,227	
65	440		" "	-1.5°	8.8	-	-	-8.8		1350.3		-266	-351	1,641,145	682,051	
66	660		" "	-1.5°	8.3	-	-	-8.3		1350.8		-398	-526	1,641,013	681,876	} bridge under construction
67	880		" "	-1.5°	6.5	BH	-4.4	-10.9		1348.2		-531	-702	1,640,880	681,700	
68	1100		" "	-1.5°	5.8	BH	-5.5	-11.3		1347.8		-664	-877	1,640,747	681,525	
69	1320		" "	-1.5°	5.5	BH	-6.6	-12.1		1347.0		-797	-1053	1,640,614	681,349	
70	1540		233°47.9'	-1.5°	13.8	-	-	-13.8		1345.3	TP	-942	-1218	1,640,469	681,183	
70	1540		" "	-	6.1	BH	-7.7	-13.8			TP					
	980		43°40.5' ± 180"	-1.5°	+4.5	TH	-4.4	+0.1	1345.4		BS	-652	-591			
	880		" "	-	12.9	89°10'	-12.8	+0.1		BS						
71	660		41°49'	-1.5°	1.7	-	-	-1.7		1343.7		+503	+427	1,640,310	681,019	

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DATE 7/12/78	INSTRUMENT MAN G. Cotcamp	ROD MAN R. Hulsey	PARTY NUMBER 6834	NOTES CHECKED BY G.W.C.	LINE NO. 2	PAGE 6
AREA Georgia	TOPO MAP Charlesville/Baldwin	STATE Georgia	COUNTY Habersham	RANGE	PPM	PARTY MANAGER L.O. Davis

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									1345.4					
72	440		40°9'	-1.5°	2.0	-		-2.0		1343.4		+344	+275	1,640,161 680,867
73	220		" "	-1.5°	3.8	-		-3.8		1341.6		+172	+137	1,639,989 680,729
74	0				5.4	-		-5.4		1340.0	TP	0	0	1,639,017 680,592
75	220		217°9'	-1.5°	7.1	-		-7.1		1338.3		-179	-128	1,639,638 680,464
76	440		" "	-1.5°	6.4	-		-6.4		1339.0		-358	-256	1,639,459 680,336
77	660		" "	-1.5°	2.9	-		-2.9		1342.5		-536	-385	1,639,281 680,207
78	880		" "	-1.5°	4.1	TH	+4.4	+0.3		1345.7		-715	-513	1,639,102 680,079
79	1100		" "	-1.5°	2.2	TH	+5.5	+3.3		1348.7		-894	-641	1,638,923 679,951
80	1320		" "	-1.5°	1.7	TH	+6.6	+4.9		1350.3		-1073	-769	1,638,744 679,823
81	1540		217°9'	-1.5°	0.6	TH	+7.7	+7.1	+7.0	1352.4	TP	-1251	-898	1,638,566 679,694
81	1540				6.5	89°30'	+13.4	+6.9			TP			
	1980		37°25'+180°	-1.5°	+14.1	89°2'	+27.6	-13.5	1338.9		BS	-1604	-1161	
	1980				+13.0	89°14'	-26.5	-13.5			BS			
82	1760		37°25'	-1.5°	6.5	89°20'	+20.5	+14.0		1352.9		+1425	+1032	1,638,387 679,565
83	1540		" "	-1.5°	5.1	89°20'	+17.9	+12.8		1351.7		+1247	+903	1,638,209 679,436
84	1320		" "	-1.5°	2.8	89°20'	+15.4	+12.6		1351.5		+1069	+774	1,638,031 679,307
85	1100		" "	-1.5°	2.7	89°20'	+12.8	+10.1		1349.0		+891	+645	1,637,853 679,178
86	880		" "	-1.5°	2.7	89°20'	+10.2	+7.5		1346.4		+713	+516	1,637,675 679,049
87	660		" "	-1.5°	3.7	89°20'	+7.7	+4.0		1342.9		+535	+387	1,637,497 678,920 last sta. in Clarksville
88	440		" "	-1.5°	1.0	TH	+2.2	+1.2		1340.1		+356	+258	1,637,318 678,791 first sta. in Baldwin

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
7/12/78		G. Cotcamp		R. Hulsey		6837		G.W.C.		2	7			
AREA		TOPO MAP		STATE		COUNTY		RANGE	PPM	PARTY MANAGER				
Georgia		Baldwin		Georgia		Habersham				L.O. Davis				
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									1338.9					
89	220		37° 25'	-1.5°	2.2	-		-2.2		1336.7		+178	+129	1,637,091 678,662
90	0				5.4	-		-5.4		1333.5	TP	0	0	1,636,962 678,533
91	220		217° 24'	-1.5°	8.0	-		-8.0		1330.9	-	-178	-129	1,636,784 678,404
92	440		" "	-1.5°	9.6	-		-9.6		1329.3		-356	-258	1,636,606 678,275
93	508		213° 44.7'	-1.5°	7.8	-		-7.8		1331.1		-430	-271	1,636,532 678,262
94	660		217° 24'	-1.5°	9.4	-		-9.4		1329.5		-535	-387	1,636,427 678,146
95	880		" "	-1.5°	7.7	-		-7.7		1331.2		-713	-516	1,636,249 678,017
96	1100		" "	-1.5°	5.9	-		-5.9		1333.0		-891	-645	1,636,091 677,888
97	1320		" "	-1.5°	4.9	-		-4.9		1334.0		-1069	-774	1,635,893 677,759
98	1540		" "	-1.5°	3.8	-		-3.8		1335.1		-1247	-903	1,635,715 677,630
99	1760		" "	-1.5°	2.4	-		-2.4		1336.5		-1426	-1032	1,635,536 677,501
100	1980		" "	-1.5°	0.5	-		-0.5		1338.4		-1604	-1161	1,635,358 677,372
100	2200		216° 55.9'	-1.6°	9.5	7H	+11.0	+1.5		1340.4	TP	-1795	-1272	1,635,166 677,265
100	2200				11.4	89° 40'	+12.8	+1.4			TP	-1	+4	
	1315		23° 23.8' + 180°	-1.6°	+13.6	-		+13.6	1354.0		BS	-1221	-488	curve
	1315				7.0	8H	+6.6	+13.6			BS	-1	+4	
101	1100		22° 10'	-1.6°	6.7	8H	-5.5	-12.2		1341.8		+1030	+386	1,634,974 677,167
102	880		21° 25'	-1.6°	7.1	8H	-4.4	-11.5		1342.5		+828	+298	1,634,772 677,079
103	660		" "	-1.6°	7.9	8H	-3.3	-11.2		1342.8		+621	+224	1,634,565 677,005
104	440		" "	-1.6°	8.8	-		-8.8		1345.2		+414	+149	1,634,358 676,930

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
7/20/78		G. Catcamp		R. Hulsey		6834		G.W.C.		2	8						
AREA		TOPO MAP		STATE	COUNTY	TWP	RANGE	PPM	PARTY MANAGER								
Georgia		Baldwin		Georgia	Habersham				L.O. Davis								
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH +	EAST +	COORDINATES		REMARKS	
												SOUTH -	WEST -	Y	X		
									1354.0								
105	220		21°25'	-1.6°	7.2	-		-7.2		1346.8		+207	+75	1,634,151	676,856		
106	0				5.4	-		-5.4		1348.6	X	0	0	1,633,944	676,781		
107	220		206°40'	-1.6°	4.3	-		-4.3		1349.7		-199	-93	1,633,745	676,688		
108	440		208°28'	-1.6°	2.5	-		-2.5		1351.5		-393	-199	1,633,551	676,582		
109	660		210°04'	-1.6°	0.9	-		-0.9		1353.1		-580	-315	1,633,364	676,466		
110	880		211°14'	-1.6°	3.1	TH	+4.4	+1.3		1355.3		-765	-435	1,633,179	676,346		
111	1100		211°50'	-1.6°	2.4	TH	+5.5	+3.1		1357.1		-950	-554	1,632,994	676,227		
112	1318		212°25'	-1.6°	0.9	TH	+6.6	+5.7		1359.7		-1132	-675	1,632,812	676,106		
112	1350		212°57'	-1.6°	0.6	TH	+6.8	+6.2		1360.2		-1153	-702	1,632,791	676,079	4-Way Intersect.	
113	1535		212°38'	-1.6°	1.5	TH	+7.7	+6.2		1360.2	TP	-1315	-791	1,632,628	675,994		
113	1535				11.7	89°20'	+17.9	+6.2			TP	-	+4				
	1320		34°31'+180°	-1.6°	5.7	TH	-6.6	-0.9	1359.3		BS	-1108	-717				
	1320				14.4	89°20'	-15.4	-1.0			BS		+4				
114	1100		34°31'	-1.6°	3.5	TH	+5.5	+2.0		1361.3		+923	+598	1,632,443	675,879		
115	880		" "	-1.6°	2.6	TH	+4.4	+1.8		1361.1		+739	+478	1,632,259	675,759		
116	660		" "	-1.6°	2.1	TH	+3.3	+1.2		1360.5		+554	+359	1,632,074	675,640		
117	440		" "	-1.6°	0.2	-		-0.2		1359.1		+369	+239	1,631,889	675,520		
118	220		" "	-1.6°	2.3	-		-2.3		1357.0		+185	+120	1,631,705	675,401		
119	0				5.4	-		-5.4		1353.9	X	0	0	1,631,520	675,281		
120	220		214°18.7'	-1.6°	8.9	-		-8.9		1350.4		-185	-119	1,631,335	675,162		

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
7/20/78		C. Cotcamp		R. Hulsey		6834		G.W.C.		2	9						
AREA		TOPO MAP	STATE	COUNTY	TWP	RANGE	PPM	PARTY MANAGER									
Georgia		Baldwin	Georgia	Habersham				L.O. Davis									
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS	
												LAT.	DEP.	Y	X		
									1359.3								
121	440		214° 18.7'	-1.6°	54	91°-	-7.7	-13.1		1346.2		-370	-238	1,631,150	675,043		
122	660		" "	-1.6°	53	91°-	-11.5	-16.8		1342.5		-555	-357	1,630,965	674,924		
123	880		" "	-1.6°	48	91°-	-15.4	-20.2		1339.1		-740	-476	1,630,780	674,805		
124	1100		" "	-1.6°	41	91°-	-19.2	-23.3		1336.0		-926	-594	1,630,594	674,687		
125	1320		" "	-1.6°	31	91°-	-23.0	-26.1		1333.2		-1111	-713	1,630,409	674,568	Sta. 125 is 25' north	
126	1540		" "	-1.6°	32	91°-	-26.9	-30.1		1329.2		-1296	-832	1,630,224	674,449	of 4-Way Intersect.	
127	1760		214° 18.7'	-1.6°	21	91°-	-30.7	-32.8		1326.5	TP	-1481	-951	1,630,039	674,334		
127	1760				124	90° 90'	-20.5	-32.9			TP		+4				
	1100		35° 34.8' + 180°	-1.6°	+1.0	89°-	-19.2	-18.2	1308.3		BS	-912	-615				
	1100				+138	88° 20'	-32.0	-18.2			BS		+4				
128	880		35° 34.8'	-1.6°	1.8	89°-	+15.4	+13.6		1321.9		+730	+492	1,629,857	674,215		
129	660		" "	-1.6°	1.9	89°-	+11.5	+9.6		1317.9		+547	+369	1,629,674	674,092		
130	440		" "	-1.6°	34	89°-	+7.7	+4.3		1312.6		+365	+246	1,629,492	673,969		
131	220		" "	-1.6°	1.6	-		-1.6		1306.7		+182	+123	1,629,309	673,846		
132	0				5.4	-		-5.4		1302.9	TP	0	0	1,629,127	673,723		
133	220		222° 22'	-1.6°	7.1	91°-	-3.8	-10.9		1297.4		-167	-144	1,628,960	673,579		
134	440		" "	-1.6°	8.1	91°-	-7.7	-15.8		1292.5		-333	-287	1,628,794	673,436		
135	660		" "	-1.6°	9.0	91°-	-11.5	-20.5		1287.8		-500	-431	1,628,627	673,292		
136	880		" "	-1.6°	7.4	91° 10'	-17.9	-25.3		1283.0		-666	-575	1,628,461	673,148		
137	1100		" "	-1.6°	8.4	91° 10'	-22.4	-30.8		1277.5		-833	-718	1,628,294	673,005		

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 7/20/78	INSTRUMENT MAN G. Cotcamp	ROD MAN R. Hulsey	PARTY NUMBER 6834	NOTES CHECKED BY RH	LINE NO. 2	PAGE 10
AREA Georgia	TOPO MAP Baldwin	STATE Georgia	COUNTY Habersham	TWP	RANGE	PPM
					PARTY MANAGER L.O. Davis	

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									1308.3					
138	1320		222°22'	-1.6°	8.2	91°10'	-26.9	-35.1		1273.2		-1000	-862	1,628,127 672,861
139	1540		" "	-1.6°	8.6	91°10'	-31.4	-40.0		1268.3		-1166	-1006	1,627,961 672,717
140	1760		222°22'	-1.6°	7.2	91°10'	-35.8	-43.0		1265.3	TP	-1333	-1149	1,627,794 672,578
140	1760				12.3	91°-	-30.7	-43.0			TP		+4	
	1760		43°28'+180°	-1.6°	+12.6	90°44'	+22.5	+35.1	1300.4		BS	-1319	-1165	
	1760				+14.6	90°40'	+20.5	+35.1			BS		+4	
141	1590		43°28'	-1.6°	6.0	91°10'	-31.4	-37.4		1263.0		+1154	+1019	1,627,629 672,436
142	1320		" "	-1.6°	8.3	91°10'	-26.9	-35.2		1265.2		+989	+874	1,627,464 672,291
143	1100		" "	-1.6°	6.5	91°20'	-25.6	-32.1		1268.3		+825	+728	1,627,300 672,145
144	880		" "	-1.6°	6.0	91°20'	-20.5	-26.5		1273.9		+660	+582	1,627,135 671,999
145	660		" "	-1.6°	9.3	91°-	-11.5	-20.8		1279.6		+495	+437	1,626,970 671,854
146	440		" "	-1.6°	7.4	91°-	-7.7	-15.1		1285.3		+330	+291	1,626,805 671,708
147	220		" "	-1.6°	9.4	-		-9.4		1291.0		+165	+146	1,626,640 671,563
148	0				5.3	-		-5.3		1295.1	TP	0	0	1,626,475 671,417
149	220		222°56'	-1.6°	2.1	-		-2.1		1298.3		-165	-145	1,626,310 671,272
150	440		" "	-1.6	1.7	TH	+2.2	+0.5		1300.9		-330	-291	1,626,145 671,126
151	660		" "	-1.6°	1.7	TH	+3.3	+1.6		1302.0		-496	-436	1,625,979 670,981
151	833		223°35'	-1.6°	0.9	TH	+4.2	+3.3		1303.7		-619	-557	1,625,856 670,860 4-Way Intersect
152	880		222°56'	-1.6°	1.8	TH	+4.4	+2.6		1303.0		-661	-581	1,625,814 670,836
153	1160		" "	-1.6°	3.5	TH	+5.5	+2.0		1302.4		-826	-726	1,625,649 670,691

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
7/20/78		G. Cotcamp		R. Hulsey		6834		RH		2	11						
AREA		TOPO MAP	STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER								
Georgia		Baldwin	Georgia	Habersham					L.O. Davis								
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS	
												LAT.	DEP.	Y	X		
									1300.4								
154	1320		222° 56'	-1.6°	14.8	89° 20'	+15.4	+0.6		1301.0	TP	-991	-872	1,625,484	670,549		
154	1320				13.3	89° 24'	+13.8	+0.5		TP				+4			
	1100		39° 19.5' +180°	-1.6°	+9.0	89°	-19.2	-15.2	1285.8		BS	-870	-673				
	1100				+10.4	88° 20'	-25.6	-15.2		BS				+4			
155	880		38° 45'	-1.6°	3.5	89°	+15.4	+11.9		1297.7		+701	+531	1,625,315	670,411		
156	660		38° 12'	-1.6°	3.0	89°	+11.5	+8.5		1294.3		+530	+394	1,625,144	670,274		
157	440		" "	-1.6°	3.6	89°	+7.7	+4.1		1289.9		+353	+262	1,624,967	670,142		
158	220		" "	-1.6°	1.0	-		-1.0		1284.8		+177	+131	1,624,791	670,011		
159	0				5.4	-		-5.4		1280.4	TP	0	0	1,624,614	669,880		
160	220		216° 40.4'	-1.6°	7.9	-		-7.9		1277.9		-180	-126	1,624,434	669,754		
161	440		" "	-1.6°	7.4	84	-2.2	-9.6		1276.2		-360	-253	1,624,254	669,627		
162	660		" "	-1.6°	7.2	-		-7.2		1278.6		-540	-379	1,624,074	669,501		
163	880		" "	-1.6°	2.8	-		-2.8		1283.0		-720	-506	1,623,894	669,374		
164	1100		" "	-1.6°	2.5	TH	+5.5	+3.0		1288.8		-900	-632	1,623,714	669,248		
165	1320		" "	-1.6°	9.3	89° 10'	+19.2	+9.9		1295.7		-1080	-759	1,623,534	669,121		
166	1540		" "	-1.6°	5.1	89° 10'	+22.4	+17.3		1303.1		-1260	-885	1,623,354	668,995		
167	1760		" "	-1.6°	6.5	89°	+30.7	+24.2		1310.0		-1440	-1011	1,623,174	668,869		
168	1980		216° 40.4'	-1.6°	3.6	89°	+34.6	+31.0	}	1316.8	TP	-1620	-1138	1,622,994	668,746		
168	1980		" "		14.0	88° 42'	+44.9	+30.9		TP				+4			

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 7/20/78	INSTRUMENT MAN G. Cateamp	ROD MAN R. Hulsey	PARTY NUMBER 6834	NOTES CHECKED BY RJA	LINE NO. 2	PAGE 12
AREA Georgia	TOPO MAP Baldwin 7.5'	STATE Georgia	COUNTY Habersham	TWP	RANGE	PPM
				PARTY MANAGER L.O. Davis		

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
168										1316.8				
	1100		37°31' +180°	-1.6°	+12.0	BH	+5.5	+17.5	1334.3		BS	-891	-645	
	1100				+19.2	90°0'	+3.2	+17.4		BS			+3	
169	880		37°31'	-1.6°	8.6	BH	-4.4	-13.0		1321.3		+713	+516	1,622,816 668,620
170	660		" "	-1.6°	9.3	-		-9.3		1325.0		+535	+387	1,622,638 668,491
171	440		" "	-1.6°	6.5	-		-6.5		1327.8		+356	+258	1,622,459 668,362
172	262		35°10'	-1.6°	4.3	-		-4.3		1330.0		+218	+145	1,622,321 668,249 4-way Int.
172	220		37°31'	-1.6°	5.8	-		-5.8		1328.5		+178	+129	1,622,281 668,233
173	0				5.4	-		-5.4		1328.9	X	0	0	1,622,103 668,104
174	220		217°20.8'	-1.6°	6.9	-		-6.9		1327.4		-179	-129	1,621,924 667,975
175	440		" "	-1.6°	7.3	BH	-2.2	-9.5		1324.8		-357	-257	1,621,746 667,847
176	660		" "	-1.6°	2.0	91°-	-11.5	-13.5		1320.8		-536	-386	1,621,567 667,718
177	880		" "	-1.6°	3.4	91°-	-15.4	-18.8		1315.5		-714	-514	1,621,389 667,590
178	1100		217°20.8'	-1.6°	6.1	91°-	-19.2	-25.3	1281.6	1309.0	TP	-893	-643	1,621,210 667,465
178	1100				12.5	90°40'	-12.8	-25.3		TP			+4	
	880	879	40°19.3' +180°	-1.6°	+8.3	88°-	-30.7	-22.4	1281.6		BS	-686	-550	
	880				+3.2	88°20'	-25.6	-22.4		BS			+3	
179	660		40°19.3'	-1.6°	7.5	88°	+23.0	+15.5		1302.1		+515	+413	1,621,039 667,331
180	440		" "	-1.6°	6.7	88°	+15.3	+8.6		1295.2		+343	+275	1,620,867 667,193 end of line due to
181	220		" "	-1.6°	1.9	89°	+3.8	+1.9		1288.5		+172	+138	1,620,696 667,056 heavy construction (south)
182	0				5.4	-		-5.4		1281.2	X	0	0	1,620,524 666,918 EOL

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-345

Geosource Inc.

DATE 7/20/78	INSTRUMENT MAN C. Cotcamp	ROD MAN R. Hulsey	PARTY NUMBER 6834	NOTES CHECKED BY RH	LINE NO. 2	PAGE 13 of 13
AREA GEORGIA	TOPO MAP Baldwin	STATE Georgia	COUNTY Habersham	TWP	RANGE	PPM
PARTY MANAGER L.O. Davis						

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									1286.6						
TP	1200		223°34'	-1.6°	10.6	89°	+20.9	+10.3	}	1296.9	TP	-892	-802	1,619,632	666,120
TP	1200				0.2	89°30'	+10.5	+10.3		TP				+4	
	910		46°11.9'+180°	-1.6°	+14.7	91°18'	+20.6	+35.3	}		BS	-648	-639		
	910				11.6	91°30'	+23.8	+35.4		1332.3	BS			+3	
TP	1020		165°45'	-1.6°	4.2	89°	+17.8	+13.6	}	1345.9	TP	-981	+279	1,618,003	665,767
TP	1020				13.2	88°30'	+26.7	+13.5		TP				+4	
	1110		352°58'-180°	-1.6°	+14.4	91°26'	+27.8	+42.2	}	1388.1	BS	-1097	+167		
	1110				13.8	91°28'	+28.4	+42.2		BS				+3	
TP	990		97°17.3'	-1.6°	0.5	-		-0.5	}		TP	-98	+985	1,616,808	666,926 (Misreading)
TP	990				6.4	TH	+5.0	-1.4		1386.7	TP			+4	
	108		326°59.4'-180°	-1.6°	7.4	-		+6.4	}	1393.1	BS	-89	+61+3		
	108				5.9	OH	+0.5	+6.4		BS					
BM	1650		78°14.7'	-1.6°	9.6	TH	+8.3	+1.3	}	1391.8		+381	+16.05	1,617,100	668,595
	1650				13.8	89°34'	+12.5	-1.3							