

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc. Client-COCORP

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE		
12/16/79		G. Cotcamp		G. Litzinger		6834		GHL		5		1 OF 12		
AREA		TOPO MAP		STATE		COUNTY		RANGE		PPM		PARTY MANAGER		
GEORGIA		Lexington		GEORGIA		Oglethorpe						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.	
				-0°24'						669.0		1,402,885	218,160	→ scaled
	828		343°22' - 180°	-9°	+4.9	91°	+14.4	+19.3	688.2		BS	-792	+242	Y-intersect. CG90 R Rt. # 78
	828				+9.5	90°40'	+9.6	+19.1	692		BS			
1	660		342°49'	-9°	7.7	91°	-11.5	-19.2		669.0		+629	-199	1,402,722 218,203
2	330		"	"	12.2	-		-12.2		676.0		+315	-100	1,402,408 218,302
3	0				5.9	-		-5.4		682.8	TP	0	0	1,402,093 218,402
4	330		166°58'	-9°	3.2	-		-3.2		685.0		-321	+77	1,401,772 218,479
5	660		"	"	7.1	-		-7.1		681.1		-642	+153	1,401,451 218,555
6	990		166°58'	-9°	12.3	BH	-5.0	-17.3		670.9	TP	-963	+230	1,401,130 218,632
6	990				11.5	90°20'	-5.8	-17.3			TP			
	1320	1319	346°36.1' - 180°	-9°	+2.2	87°50'	-49.9	-47.7	623.2		BS	-1281	+315	
	1320				+6.0	87°40'	-53.7	-47.7			BS			
7	990	989	346°9'	-9°	3.2	88°	+34.5	+31.3		654.5		+959	-243	1,400,808 218,704
8	660		"	"	6.2	88°	+23.0	+16.8		640.0		+690	-162	1,400,489 218,785
9	330		"	"	5.2	88°	+11.5	+6.3		629.5		+320	-81	1,400,169 218,866
10	0				5.9	-		-5.4		617.8	TP	0	0	1,399,899 218,947
11	330		159°50'	-9°	14.1	91°	-5.8	-19.9		603.3		-309	+116	1,399,590 219,063
12	660		"	"	12.7	92°	-23.0	-35.7		587.5		-618	+232	1,399,231 219,179
13	990	989	"	"	7.8	92°30'	-43.1	-50.9		572.3		-926	+347	1,398,923 219,294
14	1320	1319	"	"	8.2	92°30'	-57.5	-65.7		557.5		-1235	+463	1,398,614 219,410
	1640	1639	159°27'	-9°	13.5	92°	-57.2	-70.7		552.5		-1531	+586	1,398,318 219,533 bridge c/l el. 553

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12/16/79		G. Cotcamp		G. Litzinger		6834		GHL		5	2					
AREA		TOPO MAP		STATE		COUNTY		RANGE		PPM		PARTY MANAGER				
Georgia		Lexington		Georgia		Oglethorpe						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	X
									623.2							
15	1650	1649	159°50'	-4°	3.5	92°20'	-67.1	-70.6		552.6	TP	-1544	+579	1,398,305	219,526	on bridge
15	1650				13.1	92°	-57.6	-70.7			TP					
	1650	1649	390°31.2'-180°	-4°	+10.8	92°20'	+67.1	+77.9			BS	-1551	+561			
	1650				+6.1	92°30'	+71.9	+78.0	630.6		BS					
16	1320	1317	390°31.2'	-4°	13.5	92°30'	-57.5	-71.0		559.6		+1240	-449	1,397,994	219,638	
17	990	989	" "	"	11.8	92°30'	-43.1	-54.9		575.7		+930	-336	1,397,684	219,751	
18	660	659	" "	"	9.3	92°30'	-28.8	-38.1		592.5		+620	-224	1,397,374	219,863	
17	330		" "	"	15.1	91°	-5.8	-20.9		609.7		+310	-112	1,397,064	219,975	
20	0				5.4	-		-5.4		625.2	X	0	0	1,396,754	220,087	trail (west)
21	330		168°5.3'	-1.1°	2.1	89°	+5.8	+3.7		634.3		-322	+70	1,396,432	220,157	
22	660		168°5.3'	-1.1°	12.4	89°	+17.5	-0.9		629.7	TP	-645	+141	1,396,109	220,228	
22	660				6.8	89°30'	+5.8	-1.0			TP					
	1650	1648	357°5.3'-180°	-1.1°	+8.6	87°	-86.2	-77.6	552.1		BS	-1645	+95			
	1650				+3.7	87°10'	-81.5	-77.8			BS					
23	1320	1318	357°43'	-1.1°	7.6	87°	+69.0	+61.4		613.5		+1317	-62	1,395,781	220,261	
24	990	989	358°18'	-1.1°	9.2	87°	+51.7	+42.5		594.6		+988	-36	1,395,452	220,287	
25	660		" "	"	5.2	87°30'	+28.8	+23.6		575.7		+660	-24	1,395,124	220,299	
26	330		" "	"	6.7	88°	+11.5	+4.8		556.9		+330	-12	1,394,794	220,311	
27	0				5.4	-		-5.4		546.7	X	0	0	1,394,464	220,323	
28	330		178°25.2'	-1.1°	3.8	-		-3.8		548.3		-330	+11	1,394,134	220,334	

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
12/16/79		G. Cotcamp		G. Litzinger		6834		GHL		5	3					
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER					
Georgia		Lexington		Georgia		Oglethorpe					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	X
									552.1							
	366		176°39'	-6°	2.5	-		-2.5		549.6		-365	+25	1,394,099	220,348	bridge c/w el. 551.
29	660		178°25.2'	-6°	11.8	88°-	+23.0	+11.2		563.3		-660	+25	1,393,804	220,348	
30	990	989	"	"	3.8	88°-	+34.5	+30.7		582.8		-988	+38	1,393,976	220,361	
31	1320	1319	178°25.2'	-6°	7.3	87°30'	+57.5	+50.2		602.3	TP	-1318	+50	1,393,146	220,373	
31	1320				3.5	87°40'	+53.7	+50.2			TP					
	660		359°39.6'-180°	-6°	+13.6	04	+3.3	+16.9	619.2		BS	-660	+11			
	660				+13.1	90°20'	+3.8	+16.9			BS					
32	330		359°39.6'	-6°	7.7	-		-7.7		611.5		+330	-5	1,392,816	220,379	
33	0				54	-		-5.4		613.8	π	0	0	1,392,486	220,384	
34	330		189°44'	-6°	2.9	-		-2.9		616.3		-326	-52	1,392,160	220,332	
35	660		193°46'	-6°	1.3	TH	+3.3	+2.0		621.2		-643	-150	1,391,843	220,234	
36	990		195°40.3'	-6°	11.8	88°30'	+25.9	+14.1		633.3	TP	-956	-257	1,391,530	220,127	
36	990				6.2	88°50'	+20.2	+14.0			TP					
	660		4°40'+180°	-6°	+14.6	91°-	+11.5	+26.1			BS	-658	-47			
	660				+8.9	91°30'	+17.3	+26.2	659.5		BS					
37	330		359°24'	-6°	14.6	-		-14.6		644.9		+330	-7	1,391,202	220,073	
38	0				54	-		-5.4		654.1	π	0	0	1,390,872	220,080	
39	330		170°28'	-6°	0.7	TH	+1.7	+1.0		660.5		-325	+58	1,390,547	220,138	
40	655		165°9'	-6°	5.2	89°-	+11.4	+6.2		665.7		+631	+174	1,390,291	220,254	curve

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Geosource Inc.

DATE 12/16/79	INSTRUMENT MAN G. Cotcamp	ROD MAN G. Litzinger	PARTY NUMBER 6839	NOTES CHECKED BY GHL	LINE NO. 5	PAGE 4
AREA Georgia	TOPO MAP Lexington	STATE Georgia	COUNTY Calhoun	TWP	RANGE	PPM
				PARTY MANAGER L. D. 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
									659.5						
41	980		159°43'	-6°	7.7	89°	+17.1	+9.4		668.9	TP	-916	+349	1,387,956	220,429 curve
41	980				2.0	89°20'	+11.4	+9.4			TP				
	1650		319°32'-120°	-6°	+7.9	-		+7.9			BS	-1244	+1084		
	1650				+12.8	89°50'	-4.8	+8.0	676.9		BS				
42	1320		319°32'	-6°	6.6	-		-6.6		670.3		+995	-867	1,387,707	220,646
43	990		" "	"	4.0	-		-4.0		672.9		+746	-650	1,387,458	220,863
44	660		319°55'	-6°	1.6	-		-1.6		675.3		+500	-430	1,387,212	221,083
45	330		" "	"	1.9	-		-1.9		675.0		+250	-215	1,388,962	221,298
46	0				5.4	-		-5.4		671.5	π	0	0	1,388,712	221,513
47	330		152°50'	-6°	12.1	-		-12.1		664.8		-292	+154	1,388,420	221,667
48	654		157°11.1'	-6°	13.6	90°30'	-5.7	-19.3		667.6	TP	-604	+261	1,388,108	221,774 curve
48	658				7.8	91°	-11.5	-19.3			TP				
	660		357°23'-120°	-6°	+3.6	89°	-11.5	-7.9	649.7		BS	-659	+41		
	660				+7.4	88°30'	-17.3	-7.9			BS				
1E	520		0°16'	-6°	4.0	89°	+9.1	+5.1		654.8		+520	-3	1,387,969	221,892 T-rd(east) el. 655.
49	330		1°5'	-6°	0.2	-		-0.2		649.5		+330	+3	1,387,779	221,818 Line # 4 tie
50	0				5.4	-		-5.4		644.3	π	0	0	1,387,499	221,815
51	330		191°34'	-6°	2.1	-		-2.1		647.6		-324	-63	1,387,125	221,752
52	660		195°-	-6°	5.3	89°	+11.5	+6.2		655.9		-639	-164	1,386,810	221,651
53	990		196°9'	-6°	5.2	88°40'	+23.0	+17.8		667.5		-954	-265	1,386,495	221,550

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DATE 12/17/79	INSTRUMENT MAN G. Cotcamp	ROD MAN G. Litzinger	PARTY NUMBER 6834	NOTES CHECKED BY G.H.L.	LINE NO. 5	PAGE 5
AREA Georgia	TOPO MAP Lexington	STATE Georgia	COUNTY Oglethorpe	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.	
									649.7					
54	1320		196° 41.3'	-6°	2.5	88° 40'	+30.7	+28.2		677.9	TP	-1268-3	-366-3	1,386,178 221,446
54	1320				6.3	88° 30'	+34.5	+28.2			TP			
	990		18° 38' +180°	-6°	+10.6	BH	+5.0	+15.6	693.5		BS	-941-4	-306-3	
	990				+9.8	90° 20'	+5.8	+15.6			BS			
55	660		18° 38'	-6°	10.3	-		-10.3		683.2		+628	+204	1,385,861 221,341
56	330		" "	"	5.1	-		-5.1		688.4		+314	+102	1,385,547 221,239
57	0				54	-		-5.4		688.1	X	0	0	1,385,233 221,137
58	330		198° 10'	-6°	11.4	-		-11.4		682.1		-315	-100	1,384,918 221,037
59	660		" "	"	8.9	-		-8.9		684.6		-629	-199	1,384,604 220,938
60	805		197° 14'	-6°	5.1	-		-5.1		688.4		-771	-230	1,384,462 220,907
60	990		196° 27'	-6°	1.1	-		-1.1		692.4	TP	-952+2	-270	1,384,283 220,867
60	990				6.1	TH	+5.0	-1.1			TP			
	654		353° 28.4' -180°	-6°	+3.2	TH	-3.3	-0.1			BS	-649+2	+81	curve
	654				+5.7	89° 30'	-5.7	-0.0	692.4		BS			
61	330		346° 20'	-6°	2.0	TH	+1.7	-0.3		692.1		+320	-81	1,383,956 220,867
62	0				54	-		-5.4		687.0	X	0	0	1,383,636 220,948
63	330		154° 34'	-6°	6.8	-		-6.8		685.6		-297	+145	1,383,339 221,093
64	655		147° 29'	-6°	6.0	-		-6.0		686.4		-549	+358	1,383,087 221,306
65	972		140° 30'	-6°	5.7	-		-5.7		686.7	TP	-744+2	+626	1,382,894 221,574
65	972				10.6	TH	+4.9	-5.7			TP			

horiz. correct. y=-7'
I-rod (west) el. 688.8*
line #4 page 56

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
12/18/79		G. Cotcamp		G. Litzinger		6837		Gwc		5	6			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE	PPM	PARTY MANAGER		
Georgia		Lexington		Georgia		Oglethorpe						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.	
65										686.7				
	1650		293° 78' - 180°	-6°	+14.1	89° -	-28.8	-14.7	672.0		BS	-632+1	+1524	
	1650				+4.5	89° 20'	-19.2	-14.7		BS				
66	1320		292° 33'	-6°	3.0	89° 30'	+11.5	+8.5		680.5		+493	-1224	1,382,756 221,874
67	990		" "	"	6.0	89° 30'	+8.6	+2.6		674.6		+370	-918	1,382,633 222,180
68	660		" "	"	2.9	TH	+3.3	+0.4		672.4		+247	-612	1,382,510 222,486
69	330		" "	"	1.6	-		-1.6		670.4		+123	-306	1,382,386 222,792
70	0				5.4	-		-5.4		666.6	T	0	0	1,382,263 223,098
71	330		112° 33'	-4°	14.2	-		-14.2		657.8		-124	+306	1,382,139 223,404
72	660		" "	"	14.3	91° -	-11.5	-25.8		646.2		-249	+611	1,382,014 223,709
73	990		" "	"	9.3	91° -	-17.3	-26.6		645.4		-373	+917	1,381,890 224,015
74	1320		" "	"	15.1	BH	-6.6	-21.7		650.3		-498	+1223	1,381,765 224,321
75	1650		" "	"	13.7	BH	-8.3	-22.0		650.0		-622	+1528	1,381,641 224,626
76	1980		" "	"	10.4	90° 30'	-17.3	-27.7		644.3		-747	+1834	1,381,516 224,932
77	2310		113° 1.8'	-4°	10.6	90° 30'	-20.2	-30.8	30.7	641.3	TP	-889	+2132	1,381,374 225,230
77	2310				14.5	90° 24'	-16.1	-30.6		TP				
	990		302° 54.3' - 180°	-4°	+3.1	89° -	-17.3	-14.2			BS	-532	+835	
	990				+8.9	88° 40'	-23.0	-14.1	627.2		BS			
	856		304° 18'	-4°	1.1	89° -	+14.9	+13.8		641.0		+477	-710	1,381,319 225,355 Intersect. el. 692
78	660		304° 24'	-4°	1A	89° -	+11.5	+10.1		637.3		+367	-547	1,381,211 225,518
79	330		" "	"	2.6	89° -	+5.8	+3.2		630.4		+185	-274	1,381,027 225,791

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12/18/79		G. Cotcamp		G. Litzinger		6834		G.V.C.		5		7			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Georgia		Lexington		Georgia		Oglethorpe								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
									627.2						
80	0				5.4	-		-5.4		621.8	T	0	0	1,380,842	226,065
81	330		130°50'	-1°	8.9	-		-8.9		618.3		-215	+250	1,380,627	226,315
82	660		130°50'	-1°	12.6	84	-3.3	-15.9			TP	-431	+500-3	1,380,411	226,562
82	660				4.3	91°	-11.5	-15.8		611.4	TP				
	1650		319°3.8'-180°	-1°	+7.2	84	+8.3	+15.5			BS	-1245	+1083-3		
	1650				+6.0	90°20'	+9.6	+15.6	627.0		BS				
83	1320		319°3.8'	-1°	4.5	91°	-23.0	-27.5		599.5		+996	-867	1,380,162	226,775
84	990		" "	"	8.1	91°30'	-25.9	-34.0		593.0		+747	-650	1,379,913	226,992
85	660		" "	"	8.7	91°30'	-17.3	-26.0		501.0		+498	-433	1,379,664	227,209
86	330		" "	"	10.2	-		-10.2		616.8		+249	-217	1,379,415	227,425
87	0				5.4	-		-5.4		621.6	T	0	0	1,379,166	227,642
88	330		139°52'	-1°	10.9	-		-10.9		616.1		-252	+213	1,378,914	227,855
89	660		" "	"	7.2	91°	-11.5	-18.7		608.3		-504	+426	1,378,662	228,068
90	990		" "	"	7.7	91°	-17.3	-25.0		602.0		-756	+639	1,378,410	228,281
90	1230		139°26'	-1°	6.6	91°	-21.5	-28.1		598.9		-933	+801	1,378,233	228,443
91	1320		139°52'	-1°	5.9	91°	-23.0	-28.9		598.1		-1008	+853	1,378,158	228,495
92	1650		139°52'	+1°	3.3	91°	-28.8	-32.1		594.9	TP	-1263+2	+1061-2	1,377,905	228,701
92	1650				12.9	90°40'	-19.2	-32.1			TP				
	1650		320°6.3'-180°	+1°	+4.6	89°30'	-14.4	-9.8	585.1		BS	-1268+2	+1056-2		
	1650				+9.4	89°20'	-19.2	-9.8			BS				

1,378,220 + 228,435(s)
Y-intersect. el. 598

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 12/18/79	INSTRUMENT MAN G. Cotcamp	ROD MAN G. Litzinger	PARTY NUMBER 6834	NOTES CHECKED BY CWC	LINE NO. 5	PAGE 8
AREA Georgia	TOPO MAP Lexington	STATE Georgia	COUNTY Oglethorpe	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
									585.1						
93	1320		320° 6.3'	+1°	4.5	89° 30'	+11.5	+7.0		592.1		+1014	-845	1,377,653	228,910
94	990		" "	"	3.3	89° 30'	+8.6	+5.3		590.4		+761	-634	1,377,400	229,121
95	660		" "	"	3.1	89° 30'	+5.8	+2.7		587.8		+507	-422	1,377,146	229,333
96	330		" "	"	1.4	-		-1.4		583.7		+254	-211	1,376,893	229,544
97	0				5.4	-		-5.4		579.7	TP	0	0	1,376,639	229,755
98	330		140° 11'	+1°	8.3	-		-8.3		576.8		-254	+211	1,376,385	229,966
99	660		" "	"	12.0	-		-12.0		573.1		-508	+422	1,376,131	230,177
100	990		140° 50.8'	+1°	11.0	TH	-5.0	-16.0			TP	-769+2	+624-2	1,375,872	230,377
100	990				7.3	90° 30'	-8.6	-15.9		569.2	TP				
	660		333° 14.4' - 180°	+1°	+7.5	-		+7.5	576.7		BS	-590-2	+296-2		
	660				+10.8	TH	-3.3	+7.5			BS				
101	330		336° 30'	+1°	8.3	-		-8.3		568.4		+303	-131	1,375,527	230,540
102	0				5.4	-		-5.4		571.3	TP	0	0	1,375,284	230,671
103	330		162° 53'	+3°	1.7	-		-1.7		575.0		-316	+95	1,374,968	230,766
104	660		166° 26'	+3°	1.5	TH	+3.3	+1.8		578.5		-642	+151	1,374,642	230,822
105	990		169° 3.8'	+3°	6.1	89° 20'	+11.5	+5.4			TP	-973+2	+183	1,374,313	230,854
105	990				4.3	89° 26'	+9.8	+5.5		582.2	TP				
	2310		355° 48' - 180°	+3°	+8.6	91° -	+40.3	+48.9			BS	-2304+2	+160		
	2310				+14.1	90° 52'	+34.9	+49.0	631.2		BS				
106	1980		355° 43'	+3°	12.1	91° -	-34.6	-46.7		584.5		+1975	-138	1,372,986	230,876

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 12/18/79	INSTRUMENT MAN G. Cotcamp	ROD MAN G. Litzinger	PARTY NUMBER 6834	NOTES CHECKED BY G.W.C.	LINE NO. 5	PAGE 9
AREA Georgia	TOPO MAP Lexington	STATE Georgia	COUNTY Oglethorpe	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.	
									631.2					
107	1650		355°43'	+3°	11.2	91°10'	-33.6	-44.8		586.4		+1646	-115	1,373,657 230,899
108	1320		" "	"	11.5	91°20'	-30.7	-42.2		589.0		+1317	-92	1,373,328 230,922
109	990		" "	"	12.0	91°20'	-23.0	-35.0		596.2		+988	-69	1,372,999 230,945
110	660		" "	"	9.9	91°	-11.5	-21.4		609.8		+658	-46	1,372,667 230,968
111	330		" "	"	10.3	-	-	-10.3		620.9		+329	-23	1,372,340 230,991
112	0				5.4	-	-	-5.4		625.8	TP	0	0	1,372,011 231,014
113	330		169°9'	+3°	3.3	-	-	-3.3		627.9		-324	+60	1,371,687 231,074
114	660		" "	"	1.7	-	-	-1.7		629.5		-699	+121	1,371,362 231,135
115	990		167°-	+3°	4.7	TH	+5.0	+0.3		631.5		-966	+218	1,371,045 231,232
116	1320		169°50.7'	+3°	4.5	TH	+6.6	+2.1		633.3	TP	-1276+2	+338	1,370,737 231,352
116	1320				5.6	89°40'	+7.7	+2.1			TP			
	1320		332°1.9' - 180°	+3°	+7.5	91°	+23.0	+30.5	663.8		BS	-1169+2	+613	
	1320				+14.4	90°42'	+16.1	+30.5			BS			
117	990		330°8'	+3°	11.8	91°-	-17.3	-29.1		634.7		+861	-489	1,370,431 231,476
#	840		330°4.6'	+3°	12.9	91°-	-14.7	-27.6		636.2		+730	-415	1,370,300 231,550 3-way Intersect.
#	810		327°26'	+3°	5.8	91°50'	-25.9	-31.7		632.1		+685	-432	1,370,255 231,533 chiseled square el. 633.
118	660		327°37'	+3°	12.3	91°-	-11.5	-23.8		640.0		+559	-351	1,370,129 231,614
119	330		" "	"	14.4	-	-	-14.4		649.4		+280	-175	1,369,850 231,790
120	0				5.4	-	-	-5.4		658.4	TP	0	0	1,369,570 231,965
121	330		141°44'	+1°	3.3	89°-	+5.8	+2.5		666.3		-259	+204	1,369,311 232,169

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE		
12/18/79		G. Cotcamp		G. Litzinger		6834		GHL		5		10		
AREA		TOPO MAP		STATE		COUNTY		RANGE		PPM		PARTY MANAGER		
Georgia		Lexington		Georgia		Oglethorpe						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 -	EAST+ WEST -	
									663.8					
122	660		141° 44'	+1°	6.0	89° -	+11.5	+5.5		669.3		-519	+408	1,367,051 232,373
123	990		139° 17.3'	+1°	13.5	89° -	+17.3	+3.8		667.6	TP	-751+2	+644-4	1,368,821 232,609
123	990				10.6	89° 10'	+14.4	+3.8			TP			
	1320		307° 1' -180°	+1°	+11.7	0H	+6.6	+18.3	685.9		BS	-796+2	+1052-4	
	1320				+10.6	90° 20'	+7.7	+18.3			BS			
124	990		305° 26'	+1°	13.9	0H	-5.0	-18.9		667.0		+575	-806	1,368,602 232,851
125	660		309° 28'	+1°	14.8	-		-14.8		671.1		+374	-543	1,368,401 233,114
126	330		" "	"	9.6	-		-9.6		676.3		+187	-272	1,368,214 233,385
127	0				5.4	-		-5.4		680.5	X	0	0	1,368,027 233,657
128	330		124° 9.3'	+1°	3.8	-		-3.8		682.1		-186	+273	1,367,891 233,930
129	660		" "	"	7.5	-		-7.5		678.4		-371	+546	1,367,656 234,203
130	990		124° 9.3'	+1°	13.9	-		-13.9		672.0	TP	-557+2	+818-4	1,367,472 234,471 <i>Vanuc.</i>
130	990				9.0	0H	-5.0	-14.0			TP			
	1650		304° 21' -180°	+1°	+11.1	0H	+8.3	+19.4			BS	-933+2	+1361-4	
	1650				+6.1	90° 30'	+14.4	+19.5	691.5		BS			
131	1320		304° 21'	+1°	13.8	90° 30'	+11.5	-25.3		666.2		+747	-1088	1,367,288 234,740
BM	1140		306° 7'	+1°	11.7	91° -	-19.9	-31.6		659.9		+674	-920	1,367,215 234,908 <i>U.S.G.S. 10WSM 1969</i>
132	990		304° 21'	+1°	9.4	91° -	-17.3	-26.7		664.8		+560	-816	1,367,101 235,012
133	660		" "	"	13.8	0H	-3.3	-17.1		674.4		+373	-544	1,366,914 235,284
134	330		" "	"	8.9	-		-8.9		682.6		+187	-272	1,366,728 235,556

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 12/19/79	INSTRUMENT MAN G. Cotcamp	ROD MAN G. Litzinger	PARTY NUMBER 6834	NOTES CHECKED BY GHL	LINE NO. 5	PAGE 11
AREA Georgia	TOPO MAP Lexington/Woodville	STATE Georgia	COUNTY Oglethorpe	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	X	
									691.5								
135	0				5.4	-		-5.4		686.1	π	0	0	1,366,541	235,828		
136	330		129° 19.6'	+1.0°	5.8	-		-5.8		685.7		-186	+272	1,366,355	236,100		
137	660		" "	"	7.9	-		-7.9		683.6		=372	+545	1,366,169	236,373		
138	990		" "	"	10.8	-		-10.8		680.7		-559	+817	1,365,982	236,645		
139	1320		" "	"	9.0	BH	-6.6	-15.6		675.9		-745	+1090	1,365,796	236,918		
140	1650		124° 14.6'	+1.0°	13.1	BH	-8.3	-21.4	} 662.9		TP	-93/+2	+1362-4	1,365,612	237,186		
140	1650				11.7	90°20'	-9.6	-21.3			670.2	TP					
	1320		302° 26' -180°	+1.0°	+4.2	89°30'	-7.5	-7.3				BS	-710+2	+1113-4			
	1320				+8.0	89°20'	-15.4	-7.4			BS						
141	990		301° 44'	+1.0°	3.1	TH	+5.0	+1.9		669.8		+522	-841	1,365,426	237,454		
X	790		303° 56'	+1.0°	3.3	-		-3.3		659.6		+442	-655	1,365,346	237,640	U.S.G.S. checked X el. 660.0	
142	660		300° 23'	+1.0°	1.8	-		-1.8		661.1		+335	-569	1,365,239	237,726	Lexington Quad.	
143	330		" "	"	3.6	-		-3.6		659.3		+167	-284	1,365,071	238,011	Woodville Quad.	
144	0				5.4	-		-5.4		657.5	π	0	0	1,364,904	238,295	↓	
145	330		115° -	+1.0°	8.5	-		-8.5		654.4		-140	+299	1,364,764	238,594		
146	660		" "	"	12.0	-		-12.0		650.9		-280	+598	1,364,624	238,893		
147	990		112° 51'	+1.0°	13.8	-		-13.8		649.1		-386	+912	1,364,518	239,207		
148	1320		111° 37.2'	+1.0°	12.5	-		-12.5	} 650.4		TP	-488+1	+1226-4	1,364,417	239,517		
148	1320				5.9	BH	-6.6	-12.5				TP					

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 12/19/79	INSTRUMENT MAN G. Cotcamp	ROD MAN G. Litzinger	PARTY NUMBER 6834	NOTES CHECKED BY GHL	LINE NO. 5	PAGE 12
AREA Georgia	TOPO MAP Woodville	STATE Georgia	COUNTY Oglethorpe	TWP	RANGE	PPM
				PARTY MANAGER L.D. 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				
148										650.4									
	1650		289° 4.5' - 180°	+1.0	+3.5	-		+3.5	653.9		BS	-542	+1558.4						
	1650				+11.8	TH	-8.3	+3.5		BS									
149	1320		289° 4.5'	+1.0	2.9	-		-2.9		651.0		+434	-1247	1,364,309	239,824				
150	990		" "	"	3.0	-		-3.0		650.9		+325	-935	1,364,200	240,136				
151	660		290° 1'	+1.0	3.0	-		-3.0		650.9		+227	-620	1,364,102	240,451				
152	330		" "	"	3.7	-		-3.7		650.2		+113	-310	1,363,988	240,761				
153	0				5.4	-		-5.4		648.5	X	0	0	1,363,875	241,071				
154	330		120° -	+1.0	6.2	-		-6.2		647.7		-165	+285	1,363,710	241,356				
155	660		122° 39'	+1.0	7.3	-		-7.3		646.6		-357	+555	1,363,518	241,626				
156	980		125° 45'	+1.0	8.1	-		-8.1		645.8		-574	+794	1,363,301	241,865	curve			
157	1300		128° 59.8'	+1.0	9.4	-		-9.4		644.5	TP	-820	+1009.4	1,363,055	242,076	" "			
157	1300				13.3	89° 50'	+3.8	-9.5			TP								
	1980		327° 28' - 180°	+1.0	+5.1	TH	-9.9	-4.8			BS	-1671	+1062.4						
	1980				+6.8	89° 40'	-11.5	-4.7		639.8	BS								
158	1650		327° 28'	+1.0	4.8	TH	+8.2	+3.4		643.2		+1393	-885	1,362,777	242,249				
159	1320		" "	"	5.2	TH	+6.6	+1.4		641.2		+1114	-708	1,362,498	242,426				
160	990		327° 10'	+1.0	0.3	-		-0.3		639.5		+833	-535	1,362,217	242,599				
TP	788		327° 38.5'	+1.0	1.2	-		-1.2		638.6		+666	-421	1,362,050	242,713	1,362,070 + 242,720(6) T-rod (northeast)			
BM	710		324° 23'	+1.0	4.7	TH	+3.6	-1.1		638.5		+578	-412	1,361,962	242,722	el. 640, U.S.G.S. 11wsm 1964			
161	660		325° 54'	+1.0	2.0	-		-2.0		637.8		+547	-369	1,361,931	242,765				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
12/19/79		G. Cotcamp		G. Litzinger		6839		GWC		5	13				
AREA		TOPO MAP		STATE		COUNTY		RANGE	PPM	PARTY MANAGER					
Georgia		Woodville/Philomath		Georgia		Oglethorpe				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
									639.8						
162	330		325°59'	+1.0	3.5	-		-3.0		636.3		+274	-185	1,361,658	242,949
163	0				5.4	-		-5.4		634.4	π	0	0	1,361,384	243,134
164	330		141°1'	+4°	7.1	-		-7.1		632.7		-258	+206	1,361,126	243,390
165	660		" "	"	7.9	-		-7.9		631.9		-516	+412	1,360,868	243,546
166	990		138°38'	+4°	7.1	-		-7.1		632.7		-748	+649	1,360,636	243,783
167	1320		136°55'	+9°	5.6	-		-5.6		639.2	TP	-970	+895+	1,360,919	244,025
167	1320				12.2	TH	+6.6	-5.6			TP				
	2310		310°49.3' -180°	+4°	+14.9	-		+14.9	699.1		BS	-1522	+1737-4		
	2310				+3.3	BH	+11.6	-14.9			BS				
168	1980		310°49.3'	+4°	14.7	-		-14.7		634.4		+1305	-1489	1,360,197	244,269
169	1650		" "	"	7.2	BH	-8.3	-15.5		633.6		+1087	-1241	1,359,979	244,517
170	1320		" "	"	10.5	BH	-6.6	-17.1		632.0		+870	-993	1,359,762	244,765
171	990		" "	"	14.8	BH	-5.0	-19.8		629.3		+652	-745	1,359,544	245,013
172	660		" "	"	9.2	91°-	-11.5	-20.7		628.4		+435	-496	1,359,327	245,262
173	330		" "	"	13.2	-		-13.2		635.9		+217	-248	1,359,109	245,510
174	0				5.4	-		-5.4		643.7	π	0	0	1,358,892	245,758
175	330		130°36'	+4°	8.6	-		-8.6		640.5		-216	+249	1,358,676	246,007
176	660		" "	"	14.0	BH	-3.3	-17.3		631.8		-433	+498	1,358,459	246,256
177	990		" "	"	13.8	-		-13.8		635.3		-699	+747	1,358,243	246,505
178	1320		" "	"	3.1	-		-3.1		646.0		-866	+996	1,358,026	246,754

Woodville Quad.
Philomath Quad.

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 12/19/79	INSTRUMENT MAN G. Cotcamp	ROD MAN G. Litzinger	PARTY NUMBER 6834	NOTES CHECKED BY GHL	LINE NO. 5	PAGE 15
AREA Georgia	TOPO MAP Philomath	STATE Georgia	COUNTY Oglethorpe	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.	
189	1320		287°42' -180°	+1°	+4.8	89°30'	-11.5	-6.7	643.9		BS	-399+3	+1258	
	1320				+8.6	89°20'	-15.4	-6.8			BS			
190	990		287°42'	+1°	5.0	89°30'	+8.6	+3.6		647.4		+303	-943	1,356,335 250,286
191	660		" "	"	3.1	TH	+3.3	+0.2		644.0		+202	-628	1,356,234 250,601
192	330		" "	"	2.8	-	-	-2.8		641.0		+101	-319	1,356,133 250,915
193	0				5.4	-	-	-5.4		638.4	TP	0	0	1,356,032 251,229
194	330		167°30'	-3°	3.8	-	-	-3.8		640.0		-98	+315	1,355,939 251,544
194	348		105°32'	-3°	3.6	-	-	-3.6		640.2		-94	+335	1,355,938 251,564 K. intersect. el. 642
195	660		107°30'	-3°	1.9	-	-	-1.9		641.9		-195	+630	1,355,837 251,859
196	990		" "	"	0.0	-	-	+0.0		643.8		-293	+996	1,355,737 252,175
197	1320		108°54'	-3°	4.3	TH	+6.6	+2.3		646.1	TP	-421+3	+1251-2	1,355,614 252,478
197	1320				5.5	89°40'	+7.7	+2.2			TP			
	990		302°46.3' -180°	-3°	+14.4	-	-	+14.4			BS	-531+3	+835-2	
	990				+9.5	BH	+5.0	+14.5	660.6		BS			
198	660		305°37'	-3°	12.3	-	-	-12.3		648.3		+382	-539	1,355,468 252,772
199	330		" "	"	9.3	-	-	-9.3		651.3		+191	-269	1,355,277 253,042
200	0				5.4	-	-	-5.4		655.2	TP	0	0	1,355,086 253,311
201	330		134°55'	-5°	3.5	-	-	-3.5		657.1		-231	+236	1,354,855 253,547
202	660		" "	"	3.7	-	-	-3.7		656.9		-462	+471	1,354,624 253,782

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 12/19/79	INSTRUMENT MAN G. Cotcamp	ROD MAN G. Litzinger	PARTY NUMBER 6834	NOTES CHECKED BY GHL	LINE NO. 5	PAGE 16
AREA Georgia	TOPO MAP Philomath	STATE Georgia	COUNTY Oglethorpe	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	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS
												LAT.	DEP.	Y	X			
									660.6									
203	990		137° 23.3'	-5°	11.3	TH	+5.0	-6.3		654.3	TP	-723+3	+676-2	1,354,366	253,985			
203	990				12.1	89°40'	+5.8	-6.3			TP							
	987		317° 48.8' -180°	-5°	+4.6	-		+4.6			BS	-725+3	+669-2					
	987				+9.6	TH	-4.9	+4.7	-659.0		BS							Curve
204	660		319° 2'	-5°	6.8	-		-6.8		652.2		+454	-479	1,354,098	254,123			
205	330		" "	"	7.1	-		-7.1		651.9		+227	-239	1,353,871	254,413			
206	0				5.4	-		-5.4		653.6	T	0	0	1,353,644	254,652			
	104		121° 51'	-5°	4.3	-		-4.3		654.7		-54	+89	1,353,590	254,741			1,353,605 + 254,725 (2) Tinterset.
BM	143		112° 33'	-3°	5.8	-		-5.8		653.2		-54	+132	1,353,590	254,784			U.S.G.S 21 W. 81 1964
207	330		128° 20'	-3°	2.9	-		-2.9		656.1		-203	+260	1,353,441	254,913			
208	660		" "	"	3.2	TH	+3.3	+0.1		659.1		-407	+520	1,353,237	255,172			
209	990		" "	"	2.0	TH	+5.0	+3.0		662.0		-610	+780	1,353,034	255,432			
210	1320		" "	"	4.0	TH	+6.6	+2.6		661.6		-813	+1040	1,352,831	255,692			
211	1650		128° 20'	-3°	9.3	TH	+8.3	-1.0		658.0	TP	-1017+3	+1300-2	1,352,630	255,950			
211	1650				13.6	89°34'	+12.5	-1.1			TP							
	2310		312° 13.6' -180°	-3°	+6.8	TH	-11.6	-4.8			BS	-1543+3	+1719	1351090				
	2310				+4.7	89°46'	-9.4	-4.7	653.3		BS							
212	1980		312° 45'	-3°	0.6	-		-0.6		652.7		+1336	-1461	1,352,426	256,208			
213	1650		" "	"	6.9	-		-6.9		646.4		+1114	-1217	1,354,758	256,486			
214	1320		" "	"	10.1	-		-10.1		643.2		+891	-974	1,354,535	256,699			

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 12/20/79	INSTRUMENT MAN G. Cotcamp	ROD MAN G. Litzinger	PARTY NUMBER 6834	NOTES CHECKED BY GHL	LINE NO. 5	PAGE 17
AREA Georgia	TOPO MAP Philomath	STATE Georgia	COUNTY Oglethorpe	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.	
									653.3					
215	990		312°45'	-3°	9.3	-		-9.3		644.0		+668	-730	1,351,758 256,939
216	660		" "	"	7.8	-		-7.8		645.5		+445	-487	1,351,535 257,182
217	330		" "	"	6.0	-		-6.0		647.3		+223	-243	1,351,313 257,426
218	0				54	-		-5.4		647.9	X	0	0	1,351,090 257,669
219	330		183°53'	-3°	5.0	-		-5.0		648.3		-228	+239	1,350,862 257,908
220	660		" "	"	6.6	-		-6.6		646.7		-455	+478	1,350,635 258,147
221	990		134°21'	-3°	8.5	-		-8.5		644.8		-688	+712	1,350,402 258,381
222	1320		135°3'	-3°	8.0	-		-8.0		645.3		-929	+937	1,350,161 258,606
223	1650		135°20'	-3°	5.9	-		-5.9		642.4		-1167	+1166	1,349,923 258,835
224	1980		135°42.5'	-3°	13.1	TH	+9.9	-3.2		650.1	TP	-1410+3	+1390	1,349,683 259,059
224	1980				14.8	89°40'	+11.5	-3.3			TP			
	1320		320°8.8'-180°	-3°	+6.2	TH	-6.6	-0.4			BS	-1009+3	+851	
	1320				+5.8	89°44'	-6.1	-0.3	649.8		BS			
225	990		320°40'	-3°	0.1	-		-0.1		649.7		+762	-631	1,349,439 259,279
226	660		321°38'	-3°	2.3	-		-2.3		647.5		+515	-412	1,349,192 259,498
227	330		" "	"	3.8	-		-3.8		646.0		+258	-206	1,348,935 259,704
BM	48		13°44'	-3°	10.6	-		-10.6		639.2		+47	+11	1,348,724 259,921 U.S.G.S wsm 22 1964
228	0				54	-		-5.4		644.4	X	0	0	1,348,677 259,910
	137		138°26.4'	-3°	5.8	-		-5.8		644.0		-102	+91	1,348,575 260,001 Trail (north)
229	330		144°57.3'	-3°	7.3	-		-7.3		642.5		-269	+191	1,348,408 260,101

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO		PAGE			
12/20/79		G. Cotcamp		G. Litzinger		6834		GHL		5		18			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Georgia		Philomath		Georgia										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
									649.8						
230	660		149° 57.3'	-1°	9.3	-		-9.3		640.5		-540	+380	1,348,137	260,290
231	990		" "	"	11.7	-		-11.7		638.1		-810	+570	1,347,867	260,480
232	1320		" "	"	12.2	-		-12.2		637.6		-1079	+760	1,347,598	260,670
233	1650		" "	"	7.7	-		-7.7		642.1		-1399	+950	1,347,328	260,860
234	1980		149° 57.3'	-1°	3.3	-		-3.3		646.5	TP	-1619+3	+1140	1,347,061	261,050
234	1980				13.2	TH	+9.9	-3.3			TP				
	1980		321° 6' - 180°	-1°	+10.9	89° -	-34.6	-23.7	622.8		BS	-1539+3	+1246		
	1980				+5.1	89° 10'	-28.8	-23.7			BS				
235	1650		320° 42'	-1°	7.8	89° -	+28.8	+21.0		643.8		+1275	-1047	1,346,800	261,249
236	1320		" "	"	10.6	89° -	+23.0	+12.4		635.2		+1020	-838	1,346,595	261,458
237	990		" "	"	3.9	TH	+5.0	+1.1		623.9		+765	-628	1,346,290	261,668
238	660		" "	"	9.7	-		-9.7		613.1		+510	-419	1,346,035	261,877
239	330		" "	"	11.3	-		-11.3		611.5		+255	-209	1,345,780	262,087
240	0				5.4	-		-5.4		617.4	TP	0	0	1,345,525	262,296
241	330		140° 12'	-1°	1.4	TH	+1.7	+0.3		623.1		-253	+212	1,345,272	262,508
242	660		" "	"	8.5	89° -	+11.5	+3.0		625.8		-506	+423	1,345,019	262,719
243	990		" "	"	14.5	89° -	+17.3	+2.8		626.6		-759	+635	1,344,766	262,931
244	1320		138° 10.7'	-1°	12.0	89° 30'	+11.5	-0.5		622.3	TP	-982+3	+882	1,344,546	263,178
244	1320				10.5	89° 34'	+10.0	-0.5			TP				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 12/20/79	INSTRUMENT MAN G. Cotcamp	ROD MAN G. Litzinger	PARTY NUMBER 6834	NOTES CHECKED BY GHL	LINE NO. 5	PAGE 19
AREA Georgia	TOPO MAP Philomath	STATE Georgia	COUNTY Taliaferro	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.	
244	1320		297°45' - 180°	-1°	+31	-		+3.1	625.4	622.3	BS	-613+3	+1169	
	1320				+9.7	TH	-6.6	+3.1			BS			
245	990		295°56'	-1°	7.3	-		-7.3		618.1		+431	-891	1,344,367 263,956
FL	855		296°35'	-1°	9.3	-		-9.3		616.1		+381	-765	1,344,317 263,582 4-way Intersect
246	660		295°56'	-1°	11.0	-		-11.0		614.4		+288	-594	1,344,224 263,753
247	330		" "	"	8.6	-		-8.6		616.8		+144	-297	1,344,080 269,050
248	0				5.4	-		-5.4		620.0	TP	0	0	1,343,936 269,397
249	330		122°-	-1°	2.3	-		-2.3		623.1		-174	+280	1,343,762 269,627
250	660		125°25.1'	-1°	2.2	TH	+3.3	+1.1		626.5	TP	-382+3	+539	1,343,557 269,826
250	660				4.7	89°30'	+5.8	+1.1			TP			
	990		321°7.7' - 180°	-1°	+9.6	-		+9.6	636.1		BS	-770+2	+623	
	990				+14.6	TH	-5.0	+9.6			BS			horiz. correct. y = +47' y = -10'
251	660		322°52'	-1°	6.1	-		-6.1		630.0		+525	-399	1,343,314 265,110
	583		323°56'	-1°	5.4	-		-5.4		630.7		+471	-344	1,343,260 265,165 T-rd
252	330		322°52'	-1°	5.1	-		-5.1		631.0		+263	-200	1,343,052 265,309
253	0				5.4	-		-5.4		630.7	TP	0	0	1,342,789 265,509
254	330		142°42'	+2°	9.7	-		-9.7		626.4		-263	+199	1,342,526 265,708
255	660		" "	"	14.1	BH	-3.3	-12.4		618.7		-526	+398	1,342,263 265,907
256	990		" "	"	8.4	91°-	-17.3	-25.7		610.4		-790	+597	1,341,999 266,106
257	1320		" "	"	8.5	91°-	-23.0	-31.5		609.6		-1053	+796	1,341,736 266,305

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 12/20/79	INSTRUMENT MAN G. Cotcamp	ROD MAN G. Litzinger	PARTY NUMBER 6834	NOTES CHECKED BY GHL	LINE NO. 5	PAGE 20
AREA Georgia	TOPO MAP Philomath	STATE Georgia	COUNTY	TWP	RANGE	PPM
				PARTY MANAGER L.D. 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
									636.1							
258	1650		142°42'	+2°	10.2	90°40'	-19.2	-27.4		606.7		-1316	+995	1,341,473	266,504	
259	1980		141°52.3'	+2°	8.9	90°30'	-17.3	-26.2	} 36.1	610.0	TP	-1562+2	+1217	1,341,229	266,726	
259	1980				14.5	90°20'	-11.5	-26.0		TP						
	660		327°33'-180°	+2°	+1.7	TH	-3.3	-1.6		608.4	BS	-555+2	+357			
	660				+4.2	89°30'	-5.8	-1.6			BS					
260	330		329°44'	+2°	14	TH	+1.7	+0.3		608.7		+286	-165	1,340,962	266,918	
261	0				5.4	-		-5.4		603.0	TP	0	0	1,340,676	267,083	
262	330		157°28'	+4°	130	-		-13.0		595.4		-306	+124	1,340,370	267,207	
263	660		160°25.5'	+4°	8.7	91°-	-11.5	-20.2		588.2		-623	+217	1,340,053	267,300	
264	990		"	"	5.3	91°-	-17.3	-22.6		585.8		-935	+325	1,339,741	267,408	
265	1320		160°25.5'	+4°	136	OH	-6.6	-20.2	} 36.1	588.2	TP	-1247+2	+433	1,339,431	267,516	
265	1320				4.9	90°40'	-15.4	-20.3		TP						
	985		330°30.6'-180°	+4°	+10.0	-		+10.0		598.2	BS	-861+2	+479			
	985				+4.9	TH	-4.9	+10.0			BS				curve	
266	660		327°15'	+4°	8.5	-		-8.5		589.7		+558	-353	1,338,130	267,642	
266	480		326°55'	+4°	7.8	-		-7.8		590.4		+404	-259	1,338,976	267,736	
267	330		324°-	+4°	6.3	-		-6.3		591.9		+268	-192	1,338,840	267,800	
268	0				5.4	-		-5.4		592.8	TP	0	0	1,338,572	267,995	
269	330		137°36'	+6°	5.2	-		-5.2		593.0		-246	+220	1,338,792	268,215	
270	660		"	"	8.9	-		-8.9		589.3		-492	+440	1,338,080	268,435	

1,338,980 + 267,705(S)
Total (west) el. 591.

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 12/21/79	INSTRUMENT MAN G. Catcamp	ROD MAN G. Litzinger	PARTY NUMBER 6834	NOTES CHECKED BY GHL	LINE NO. 5	PAGE 21
AREA Georgia	TOPO MAP Philomath	STATE Georgia	COUNTY Taliaferro	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.	
									598.2					
271	990		137°36'	+6°	14.0	-		-14.0		584.2		-738	+660	1337,834 268,605
272	1320		137°36'	+6°	8.5	0H	-6.6	-15.1			TP	-984+2	+880+1	1337,590 268,876
272	1320				11.2	90°10'	-3.8	-15.0		583.2	TP			
	1320		319°46.6'-180°	+6°	+9.3	-		+9.3	592.5		BS	-1017+2	+842+2	
	1320				+27	0H	+6.6	+9.3			BS			
273	990		320°23'	+6°	8.0	-		-8.0		584.5		+769	-623	1337,344 269,097
274	660		"	"	7.3	-		-7.3		585.2		+513	-416	1337,088 269,309
275	330		"	"	6.0	-		-6.0		586.5		+256	-208	1336,831 269,512
276	0				54	-		-54		587.1	TP	0	0	1336,575 269,720
277	330		144°56.2'	+6°	3.7	-		-3.7		588.8		-272	+187	1336,323 269,907
278	660		"	"	2.8	-		-2.8		589.7		-544	+373	1336,201 270,093
279	990		"	"	1.7	-		-1.7		590.8		-816	+560	1335,759 270,280
280	1320		"	"	0.2	-		-0.2		592.3		-1088	+747	1335,487 270,467
281	1650		144°56.2'	+6°	1.1	-		-1.1		591.4	TP	-1360	+939+2	1335,215 270,656
281	1650				9.4	TH	+8.3	-1.1			TP			
	1650		324°12.8'-180°	+4°	+2.9	89°30'	-14.9	-11.5	579.9		BS	-1344	+958+2	
	1650				+7.7	89°20'	-19.2	-11.5			BS			
282	1320		324°12.8'	+4°	3.7	89°30'	+11.5	+7.8		587.7		+1076	-764	1334,941 270,858
283	990		"	"	3.7	TH	+5.0	+1.3		581.2		+807	-523	1334,678 271,043
284	660		"	"	4.2	-		-4.2		575.7		+538	-382	1334,409 271,234

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
12/2/79		C. Cotcamp		G. Litzinger		6834		GHL		5	22				
AREA		TOPO MAP		STATE		COUNTY		RANGE		PPM		PARTY MANAGER			
Georgia		Philomath		Georgia		Taliaferro						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	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									579.9						
285	330		324° 12.8'	+4°	5.7	-		-5.7		579.2		+269	-191	1,334,140	271,425
286	0				5.4	-		-5.4		574.5	T	0	0	1,333,871	271,616
287	330		149° 5'	+4°	3.0	-		-3.0		576.9		-284	+168	1,333,587	271,784
288	660		"	"	7.1	89°	+11.5	+4.4		584.3		-569	+335	1,333,302	271,951
289	990		150° 55.3'	+4°	4.4	89°	+17.3	+12.9		592.8	TP	-869	+475+2	1,333,002	272,093
289	990				1.5	89° 10'	+14.4	+12.9			TP				
	330		343° 5.6' -180°	+4°	+12.4	-		+12.4	605.2		BS	-316	+99+2		
	330				+14.1	TH	-1.7	+12.4			BS				
290	0				5.4	-		-5.4		599.8	T	0	0	1,332,686	272,189
≠	318		172° 37'	+4°	0.8	-		-0.8		604.4		-316	+39	1,332,370	272,229
291	330		179° 32'	+1°	0.9	-		-0.9		604.3		-329	+31	1,332,357	272,220
292	660		182° 23'	+1°	14.7	89° 44'	+3.1	-11.6		593.6	TP	-659	-28+4	1,332,022	272,165
292	660				14.3	89° 46'	-2.7	-11.6			TP				
	1980		20° 25.5' +180°	+1°	+7.7	88° 20'	-57.6	-49.9			BS	-1854	-694+4		
	1980				+2.0	88° 30'	-51.8	-49.8	543.8		BS				
293	1650		20° 25.5'	+1°	9.8	88° 30'	+43.2	+33.4		577.2		+1545	+579	1,331,718	272,054
294	1320		"	"	2.0	89°	+23.0	+21.0		564.8		+1236	+463	1,331,409	271,934
295	990		"	"	7.0	89°	+17.3	+10.3		554.1		+927	+347	1,331,100	271,822
296	660		"	"	2.2	89° 30'	+5.8	+3.6		547.4		+618	+231	1,330,791	271,706
297	320		"	"	1.1	-		-1.1		542.7		+309	+116	1,330,482	271,591

1,332,370 + 272,200
4 Way Intersect.
unable to locate BM

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 12/21/79	INSTRUMENT MAN G. Cotcamp	ROD MAN G. Litzinger	PARTY NUMBER 6834	NOTES CHECKED BY GHL	LINE NO. 5	PAGE 23
AREA Georgia	TOPO MAP Philomath	STATE Georgia	COUNTY Taliaferro	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.	
									543.8					
298	0				5.4	-		-5.4		538.4	T	0	0	1330,173 271,475
299	330		201° 11'	+1°	10.2	-		-10.2		533.6		-307	-120	1329,866 271,355
300	660		" "	"	12.6	84	-3.3	-15.9		527.9		-615	-240	1329,559 271,235
301	990		" "	"	10.0	90° 40'	-11.5	-21.5		522.3		-922	-359	1329,287 271,116
302	1320		202° 23'	+1°	4.2	91° -	-23.0	-27.2		516.6	TP	-1220	-505+4	1328,953 270,974
302	1320				13.4	90° 36'	-13.8	-27.2			TP			
	990		32° 20.3' +180°	+1°	+5.4	88° 40'	-23.0	-17.6	499.0		BS	-836	-531+4	
	990				+8.3	88° 30'	-25.9	-17.6			BS			
303	660		33° 38'	+1°	5.4	88° 30'	-17.3	+11.9		510.9		+549	+367	1328,666 270,814
304	330		" "	"	1.3	89° -	+5.8	+4.5		503.5		+274	+183	1328,391 270,630
305	0				5.4	-		-5.4		493.6	T	0	0	1328,117 270,447
306	330		218° 50'	+1°	11.9	91° -	-5.8	-17.7		481.3		-257	-207	1327,860 270,240
307	660		" "	"	9.8	92° -	-23.0	-32.8		466.2		-513	-415	1327,604 270,032
1/K	920		218° 10.7'	+1°	9.8	92° -	-32.1	-41.9		457.1		-722	-570	1327,395 269,877 1327,375 269,895 T-rd (east) el. 457.
308	990		218° 50'	+1°	9.1	92° -	-34.5	-43.6		455.4		-770	-622	1327,347 269,825
309	1320		" "	+1°	3.2	92° -	-46.0	-49.2		449.8		-1027	-830	1327,090 269,617
310	1650		218° 50'	+1°	6.2	91° 30'	-43.2	-49.4		449.6	TP	-1283	-1037+9	1326,894 269,414
310	1650				14.8	91° 12'	-34.6	-49.4			TP			
	1650		38° 49.8' +180°	+1°	+5.1	91° 30'	+43.2	+48.3	497.9		BS	-1283	-1037+9	
	1650				+14.6	91° 10'	+33.6	+48.2			BS			

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
12/21/79		G. Cotcamp		G.L. Tzinger		6839		GHL		5		24				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
Georgia		Philomath		Georgia		Tal								L.O. Davis		
STATION NO.	SLOPE DISTANCE	PLOTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
									497.9							
≡	1550		39°9'	+1°	11.3	91°20'	-36.1	-47.4		450.5		+1200	+981	1,326,751	269,362	bridge
311	1320		38°49.8'	+1°	13.0	91°20'	-30.7	-43.7		454.2		+1027	+829	1,326,578	269,210	
312	990		" "	"	11.7	91°20'	-23.0	-34.7		463.2		+770	+622	1,326,321	269,093	
313	660		" "	"	9.9	91°-	-11.5	-21.4		476.5		+513	+415	1,326,064	268,796	
314	330		" "	"	11.2	-	-	-11.2		486.7		+257	+207	1,326,808	268,588	
315	0				5.4	-	-	-5.4		492.5	π	0	0	1,325,551	268,381	
316	330		218°36'	+1°	0.5	TH	+1.7	+1.2		499.1		-258	-206	1,325,292	268,175	
317	660		" "	"	9.5	88°-	+23.0	+13.5		511.4		-515	-413	1,325,036	267,969	
318	990		" "	"	6.7	88°-	+34.5	+27.8		525.7		-773	-619	1,324,718	267,762	
319	1315		216°46'	+1°	5.5	88°-	+45.9	+40.4		538.3	TP	-1061	-776+4	1,324,440	267,609	curve
319	1315				1.6	88°10'	+42.1	+40.5			TP					
	652		7°6.9'+180°	+1°	+7.3	-	-	+7.3	545.6		BS	-697	-80+4			curve
	652				+10.6	TH	-3.3	+7.3			BS					
320	330		359°3'	-1°	2.9	-	-	-2.9		542.7		+330	-6	1,324,173	267,527	
321	0				5.4	-	-	-5.4		540.2	π	0	0	1,323,843	267,533	
322	330		169°38'	-1°	13.4	-	-	-13.4		532.2		-318	+88	1,323,525	267,621	
≡	590		158°42.6'	-1°	13.8	BH	-2.7	-16.5		529.1		-503	+197	1,323,340	267,730	1,323,340+267,730 (intersect. el. 529)
323	654		157°16'	-1°	12.4	BH	-3.3	-15.7		529.9	TP	-603.2	+254+2	1,323,238	267,789	curve
323	654				11.8	90°20'	-3.8	-15.6			TP					

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO	PAGE			
1/7/80		G. Cotcamp		G. Litzinger		6839		GHL		5	25			
AREA		TOPO MAP		STATE		COUNTY		RANGE		PARTY MANAGER				
Georgia		Philomath		Georgia		Taliaferro				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.	
323										529.9				
	990		308° 31.3' - 180°	-1°	+2.7	-		+2.7	532.6		BS	-615-2	+776+2	
	990				+7.7	TH	-5.0	+2.7		BS				
324	660		304° 47'	-1°	1.0	-		-1.0		531.6		+376	-543	1,322,997 268,024
325	330		" "	"	2.0	-		-2.0		530.6		+188	-271	1,322,809 268,296
326	0				5.4	-		-5.4		527.2	X	0	0	1,322,621 268,567
327	330		125° 14'	-1°	7.8	-		-7.8		524.8		-190	+270	1,322,431 268,837
328	660		" "	"	9.8	-		-9.8		522.8		-380	+540	1,322,241 269,107
329	990		126° 36.7'	-1°	11.7	-		-11.7		520.9	TP	-589-2	+796+2	1,322,030 269,365
329	990				6.7	BH	-5.0	11.7			TP			
	990		321° 22.8' - 180°	-1°	+2.3	TH	-5.0	-2.7			BS	-772-2	+619+2	
	990				+6.0	89° 30'	-8.6	-2.6	518.3		BS			
330	660		323° -	-1°	2.4	TH	+3.3	+0.9		519.2		+526	-398	1,321,782 269,588
331	330		" "	"	1.4	-		-1.4		516.9		+263	-199	1,321,519 269,787
332	0				5.4	-		-5.4		512.9	X	0	0	1,321,256 269,986
333	330		146° 9'	-1°	11.8	-		-11.8		506.5		-274	+189	1,320,982 270,170
334	660		149° 46.6'	-1°	14.0	-		-14.0		504.3	TP	-570-2	+333+1	1,320,684 270,320
334	660				10.7	BH	-3.3	-14.0			TP			
	660		348° 56.5' - 180°	-1°	+11.9	-		+11.9			BS	-698	+128	
	660				+13.9	89° 50'	-1.9	+12.0	516.3		BS			
H	612		350° 40'	-1°	10.5	-		-10.5		505.8		+609	-100	1,320,640 270,398 I- rd (east) cl. 506

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
1/7/80		G. Cotcamp		G. Litzinger		6829		GHL		5	26				
AREA		TOPO MAP		STATE		COUNTY		RANGE		PPM		PARTY MANAGER			
Georgia		Philomath/Crawfordville		Georgia		Taliaferro						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
									516.3						
335	330		359° -	-1°	5.9	-		-5.9		510.4		+328	-35	1,320,364	270,413
336	0				5.4	-		-5.4		510.9	π	0	0	1,320,036	270,448
337	330		183° 17.3'	-1°	11.3	-		-11.3		505.0		-329	-18	1,319,707	270,430
338	660		183° 17.3'	-1°	11.1	91°	-11.5	-22.6		493.7	TP	-659	-37	1,319,377	270,411
338	660				7.3	91° 20'	-15.4	-22.7			TP				
	1980	1979	4° 9.4' +180°	-1°	+6.1	88° 40'	-46.1	-40.0	453.7		BS	-19.74	-140		
	1980				+9.5	88° 34'	-49.5	-40.0			BS				
339	1650		4° 9.4'	-1°	2.1	89° -	+28.8	+26.7		480.4		+1646	+117	1,319,049	270,388
340	1320		" "	"	10.0	89° -	+23.0	+13.0		466.7		+1317	+93	1,318,720	270,364
341	990		" "	"	1.6	-		-1.6		452.1		+988	+70	1,318,391	270,391
342	660		" "	"	7.9	-		-7.9		445.8		+658	+97	1,318,061	270,318
343	460		5° 26'	-1°	7.8	-		-7.8		445.9		+458	+43	1,317,861	270,314
343	330		4° 9.4'	-1°	8.1	-		-8.1		445.6		+329	+23	1,317,732	270,294
344	0				5.4	-		-5.4		448.3	π	0	0	1,317,903	270,271
345	330		189° 5'	-1°	4.6	88° -	+11.5	+6.9		440.6		-329	-23	1,317,074	270,248
346	660	659	" "	"	9.8	87° -	+34.5	+24.7		478.4		-657	-46	1,316,746	270,225
347	990	989	" "	"	9.9	87° -	+51.7	+41.8		495.5		-987	-69	1,316,416	270,202
348	1320	1318	" "	"	12.8	87° -	+69.0	+56.2		509.9		-1315	-92	1,316,088	270,179
349	1650	1648	184° 5'	-1°	10.6	87° 20'	+76.7	+66.1		519.8	TP	-1694	-114	1,315,759	270,157
349	1650				5.9	87° 30'	+71.9	+66.0			TP				

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE 1/7/80	INSTRUMENT MAN G. Cotcamp	ROD MAN G. Litzinger	PARTY NUMBER 6839	NOTES CHECKED BY GHL	LINE NO. 5	PAGE 27
AREA Georgia	TOPO MAP CRAWFORDVILLE	STATE Georgia	COUNTY Tallapoosa	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.	
349										519.8				
	1320		1°57' +180°	-1°	+3.5	91°-	+23.0	+26.5	546.3		BS	-1319	-43	
	1320				+15.0	90°30'	+11.5	+26.5		BS				
350	990		0°51'	-1°	15.0	84	-5.0	-20.0		526.3		+990	+13	1,315,430 270,127
351	660		" "	"	14.3	-	-	-14.5		532.0		+660	+9	1,315,100 270,123
71	532		2° -	-1°	12.5	-	-	-12.5		533.8		+532	+18	1,314,972 270,132 T-rod (vertical) 535
352	330		0°51'	-1°	9.0	-	-	-9.0		537.3		+330	+4	1,314,770 270,118
353	0				5.4	-	-	-5.4		540.9	T	0	0	1,314,490 270,119
354	330		190°33'	-3°	7.0	-	-	-7.0		539.3		-325	-59	1,314,115 270,055
355	660		193°19'	-3°	14.4	84	-3.3	-17.7			TF	-643	-149	1,313,797 269,965
355	660				6.1	91°-	-11.5	-17.6		528.7	TF			
	1980	1979	16°35.4' +180°	-3°	+8.0	88°30'	-51.8	-43.8	484.9		BS	-1900	-555	
	1980				+4.6	88°36'	-48.4	-43.8		BS				
356	1650		16°35.4'	-3°	2.0	89°-	+28.8	+26.8		511.7		+1584	+463	1,313,481 269,873
357	1320		" "	"	12.8	89°-	+23.0	+10.2		495.1		+1267	+370	1,313,164 269,780
358	990		" "	"	6.8	TH	+5.0	-1.8		483.1		+950	+278	1,312,847 269,688
359	660		" "	"	4.0	TH	+3.3	-0.7		484.2		+634	+185	1,312,531 269,595
360	330		" "	"	0.2	TH	+1.7	+1.5		486.4		+317	+93	1,312,214 269,503
361	0				5.4	-	-	-5.4		479.5	T	0	0	1,311,897 269,410
362	330		196°13'	-3°	14.1	84	-1.7	-15.8		469.1		-317	-90	1,311,580 269,320
363	660		" "	"	13.8	-	-	-13.8		471.1		-635	-181	1,311,262 269,229

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 1/7/80	INSTRUMENT MAN G. Cotcamp	ROD MAN G. Litzinger	PARTY NUMBER 6834	NOTES CHECKED BY GHL	LINE NO. 5	PAGE 28
AREA Georgia	TOPO MAP CRAWFORDVILLE	STATE Georgia	COUNTY Taliaferro	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.	
									484.9					
364	990		196°13'	-3°	3.4	TH	+5.0	+1.6		486.5		-952	-271	1,310,995 269,139
365	1320		" "	"	1.7	89°-	+23.0	+21.3		506.2		-1269	-362	1,310,628 269,098
366	1640		193°51.8'	-3°	2.8	88°40'	+38.1	+35.3		520.2	TP	-1594	-385	1,310,303 269,025 curve
366	1640				12.4	88°20'	+47.7	+35.3			TP			
	988		344°29'-180°	-3°	+9.6	91°-	+17.2	+21.8			BS	-951	+269	
	988				+10.4	90°40'	+11.5	+21.9	-542.1		BS			curve
367	660		340°6'	-3°	14.6	-		-14.6		527.5		+619	-228	1,309,971 269,066
368	330		336°40'	-3°	9.0	-		-9.0		533.1		+302	-132	1,309,659 269,162
369	0				5.4	-		-5.4		536.7	π	0	0	1,309,352 269,299
369	253		151°45'	-3°	1.1	-		-1.1		541.0		-222	+121	1,309,130 269,415 intersectal 541
370	330		159°48'	-5°	0.4	-		-0.4		541.7		-297	+193	1,309,055 269,437
371	660		" "	"	7.7	89°-	+11.5	+3.8		545.9		-595	+286	1,308,757 269,580
372	990		154°48'	-5°	8.3	89°-	+17.3	+9.0		551.1	TP	-892	+129	1,308,460 269,723
372	990				5.4	89°10'	+14.4	+9.0			TP			
	990		338°5'-180°	-5°	+8.7	91°-	+17.3	+26.0	577.1		BS	-915	+378	
	990				+6.9	91°6'	+19.0	+25.9			BS			
373	660		338°53'	-5°	14.0	90°30'	-5.8	-19.8		557.3		+614	-243	1,308,159 269,858
374	330		342°6'	-5°	10.9	-		-10.9		566.2		+313	-109	1,307,858 269,997
375	0				5.4	-		-5.4		571.7	π	0	0	1,307,595 270,101
376	330		169°-	-5°	5.3	-		-5.3		571.8		-323	+66	1,307,222 270,167

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE		
11/7/80		G. Cotcamp		G. L. Tzinger		6837		GHL		5		29		
AREA		TOPO MAP		STATE		COUNTY		RANGE		PPM		PARTY MANAGER		
Georgia		Crawfordville		Georgia		Taliaferro						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.	
									577.1					
377	660		172° 27'	-5°	10.0	-		-10.0		567.1	TP	-653.2	+92	1,306,890 270,193
377	660				13.3	TH	+3.3	-10.0			TP			
	2640		0° 40' +180°	-7°	+8.6	BH	+13.2	+21.8			BS	-2690.2	+2	
	2640				+12.6	90° 12'	+9.2	+21.8	588.9		BS			
378	2310		0° 40'	-7°	11.5	BH	-11.6	-23.1		565.8		+2310	-1	1,306,558 270,194
379	1980		0° 14'	-7°	11.8	BH	-9.9	-21.7		567.2		+1980	-16	1,306,228 270,179
380	1650		" "	"	10.9	BH	-8.3	-19.2		569.7		+1650	-13	1,305,898 270,182
381	1320		359° 32'	-7°	10.1	BH	-6.6	-16.7		572.2		+1320	-27	1,305,568 270,168
382	990		" "	"	10.8	BH	-5.0	-15.8		573.1		+990	-20	1,305,238 270,175
383	660		356° 49'	-7°	14.4	-		-14.4		574.5		+660	-95	1,304,906 270,150
≠	420		356° 55'	-7°	12.8	-		-12.8		576.1		+419	-28	1,304,667 270,167
384	330		353° 38'	-7°	11.2	-		-11.2		577.7		+327	-41	1,304,575 270,154
385	0				5.4	-		-5.4		583.5	X	0	0	1,304,248 270,195
386	330		168° 12'	-7°	1.1	TH	+1.7	+0.6		589.5		-322	+71	1,303,926 270,266
387	660		165° 31'	-7°	4.8	89° -	+11.5	+6.7		595.6		-637	+173	1,303,611 270,368
388	990		163° 45'	-7°	4.2	89° -	+17.3	+13.1		602.0		-947	+289	1,303,301 270,484
389	1320		" "	"	2.1	89° -	+23.0	+20.9		609.8		-1263	+385	1,302,985 270,580
390	1650		163° 8'	-7°	4.4	88° 50'	+33.6	+29.2			TP	-1573.4	+498	1,302,671 270,693
390	1650				2.4	88° 54'	+31.7	+29.3		618.2	TP			

1,304,665 + 270,185
T-rod (w/units) 577

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
1/7/80		G. Cotcamp		G. Litzinger		6834		GHL		5		30				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
Georgia		Crawfordsville		Georgia		Taliaferro								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	X
390										618.2						
	660		341° 23.3' - 180°	-7°	+4.5	89° 30'	-5.8	-1.3	616.9		BS	-623.4	+218		horiz. correct. y = -22' x = +9'	
	660				+6.4	89° 20'	-7.7	-1.3		BS						
1#	390		342° 35'	-7°	1.4	89° 20'	+4.5	+3.1		620.0		+371	-121	1,302,915	270,790	1,302,913 + 270,790 T-rod (east) el. 620.
391	330		341° 25.3'	-7°	3.3	89° -	+5.8	+2.5		619.4		+311	-109	1,302,355	270,802	
392	0				5.4	-		-5.4		611.5	TP	0	0	1,302,049	270,911	
393	330		152° -	-9°	13.7	84°	-1.7	-15.4		601.5		-290	+157	1,301,759	271,068	
394	660		147° -	-9°	10.7	91° -	-11.5	-22.2		594.7		-551	+363	1,301,493	271,274	
395	990		143° 30.7'	-9°	6.4	91° 20'	-23.0	-29.4	29.5		TP	-792+6	+597-6	1,301,258	271,499	
395	990				2.5	91° 34'	27.1	-29.6		587.4	TP					
	990		315° 13.3' - 180°	-9°	+12.9	91° -	+17.3	+30.2	617.6		BS	-698+6	+702-6			
	990				+7.1	91° 20'	+23.0	+30.1		BS						
396	660		315° 13.3'	-9°	12.2	91° 30'	-12.3	-29.5		588.1		+465	-468	1,301,031	271,727	
397	330		" "	"	12.2	91° -	-5.8	-19.0		599.6		+233	-234	1,300,799	271,961	
398	0				5.4	-		-5.4		612.2	TP	0	0	1,300,566	272,195	
399	330		144° 48'	-9°	1.8	89° -	+5.8	+4.0			TP	-268+6	+192-6	1,300,309	272,381	
399	330				4.7	88° 30'	8.6	+3.9		TP						
	660		344° 7' - 180°	-9°	+7.5	-	+	+7.5	629.1		BS	-633+5	+185-6			
	660				+10.8	TH	-3.3	+7.5		BS						
400	330		344° 7'	-9°	2.7	-		-2.7		626.4		+317	-93	1,299,993	272,467	
401	0				5.4	-		-5.4		623.7	TP	0	0	1,299,676	272,560	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 1/8/80	INSTRUMENT MAN G. Cotcamp		ROD MAN G. Litzinger		PARTY NUMBER 6839	NOTES CHECKED BY GHL	LINE NO. 5	PAGE 31
AREA Georgia	TOPO MAP Crawfordville	STATE Georgia	COUNTY Taliaferro	TWP	RANGE	PPM	PARTY MANAGER L.O. Davis	

STATION NO.	SLOPE DISTANCE	PLOTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
									629.1							
402	330		163° 44.5'	-9°	12.3	-		-12.3		616.8		-321	+78	1,299,355	272,638	
402	580		165° 39'	-9°	13.7	BH	-2.9	-16.6		612.5		-561	+198	1,299,115	272,708	1,299,190 + 272,705 T-cd (east)
403	660		166° 47.5'	-9°	14.5	BH	-3.3	-17.8		611.3		-641	+156	1,299,035	272,716	
404	990		166° 49.5'	-9°	14.3	90° 20'	-5.8	-20.1		609.0	TP	-962+3	+237-3	1,298,717	272,791	
404	990				2.6	90° 40'	-11.5	-20.1			TP					
	990		340° 42.3' -180°	-9°	+6.4	91° -	+17.3	+23.7	632.7		BS	-932+3	+334-3			
	990				+9.3	90° 50'	+14.4	+23.7			BS					
405	660		337° 49'	-9°	8.9	91° -	-11.5	-20.4		612.3		+609	-253	1,298,397	272,869	
406	330		335° 35'	-9°	14.8	-		-14.8		617.9		+300	-139	1,298,088	272,983	
407	0				5.4	-		-5.4		627.3	π	0	0	1,297,788	273,122	
408	330		159° 20'	-9°	1.7	89° -	+5.8	+4.1		636.8		-296	+195	1,297,992	273,267	
409	660		" "	"	6.6	89° -	+11.5	+4.9		637.6		-593	+290	1,297,195	273,412	
410	990		159° 20'	-9°	15.0	89° 10'	+14.4	-0.6		632.1	TP	-889+3	+435-3	1,296,902	273,557	Town of Crawfordville.
410	990				13.9	89° 14'	+13.2	-0.7			TP					
	326		320° 18' -180°	-9°	+5.0	-		+5.0			BS	-299+3	+210-3			Curve
	326				+6.7	TH	-1.6	+5.1	632.2		BS					
411	0				5.4	-		-5.4		631.8	π	0	0	1,296,656	273,761	
412	330		129° 16'	-3°	12.2	-		-12.2		625.0		-208	+257	1,296,998	274,018	
413	660		" "	"	13.4	BH	-3.3	-16.7		620.5		-915	+513	1,296,291	274,274	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
1/8/80		G. Cotcamp		G. Litzinger		6834		SHL		5	32			
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER			
Georgia		Crawfordville		Georgia		Taliaferro					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.	
									637.2					
414	990		127°20.3'	-3°	12.9	-		-12.9		624.3	TP	-596+3	+790-3	1,295,263 279,548
414	990				7.9	04	-5.0	-12.9			TP			
	990		195°11'-180°	-3°	+6.3	89°30'	-8.6	-2.3	6220		BS	-417+3	+998-3	
	990				+10.3	89°16'	-12.7	-2.4			BS			
415	660		299°31'	-3°	0.0	TH	+3.3	+3.3		625.3		+271	-602	1,295,920 279,841
416	330		" "	"	21	-		-2.1		619.9		+135	-301	1,295,789 275,192
417	0				5.4	-		-5.4		616.6	π	0	0	1,295,699 275,993
418	330		116°2'	-3°	5.9	-		-5.9		616.1		-143	+297	1,295,506 275,790
419	660		121°47'	-3°	4.1	TH	+3.3	-0.8		621.2	TP	-345+3	+563-1	1,295,307 276,005
419	660				4.6	89°40'	+3.8	-0.8			TP			
	656		330°36'-180°	-3°	+11.1	88°-	-22.9	-11.8	6094		BS	-570+3	+325	
	656				+5.4	88°30'	-17.2	-11.8			BS			
420	330		334°40'	-3°	1.9	89°-	+5.8	+3.9		613.3		+298	-143	1,295,038 276,187
421	0				5.4	-		-5.4		604.0	π	0	0	1,294,770 276,330
422	330		153°33'	-3°	9.6	-		-9.6		599.8	TP	-295+3	+148	1,294,448 276,978
422	330				11.3	TH	+1.7	-9.6			TP			
	330		337°45'-180°	-3°	+2.6	87°50'	-12.5	-9.9	5899		BS	-305+3	+126	
	330				+4.5	87°30'	-14.4	-9.9			BS			
423	0				5.4	-		-5.4		584.5	π	0	0	1,294,196 276,607

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 11/9/80	INSTRUMENT MAN G. Cotcamp	ROD MAN G. Litzinger	PARTY NUMBER 6834	NOTES CHECKED BY GHL	LINE NO. 5	PAGE 33
AREA Georgia	TOPO MAP Stanfordville	STATE Georgia	COUNTY Taliaferro	TWP	RANGE	PPM
				PARTY MANAGER L.D. 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			
									589.9									
TL	260		178° 8'	-3°	11.0	-		-11.0		578.9	TP	-260+3	+10	1,293,889	276,619			40' offset road
TL	260				12.3	TH	+1.3	-11.0			TP							
	345		247° 15' -180°	-3°	+3.3	-		+3.3			BS	-336+2	+78					
	345				+5.1	TH	-1.7	+3.4	582.3		BS							
424	328		353° 43'	-3°	6.1	89° 20'	+3.8	-2.3		580.0		+326	-38	1,293,881	276,659			
425	0				5.4	-		-5.4		576.9	T	0	0	1,293,555	276,692			
TL	173		153° 53'	-3°	5.6	-		-5.6		576.7		-155	+77	1,293,900	276,769			1,293,400 + 276,770 4-Way Intersect
426	330		156° 9'	-3°	14.0	-		-14.0		568.3		-301	+135	1,293,259	276,827			
427	660		" "	"	9.0	91° -	-11.5	-20.5		561.8		-602	+270	1,292,953	276,962			horiz. correct, y=+58' x=-93
TL	950		155° 50'	-3°	8.8	91° -	-16.6	-25.4		556.9	TP	-865	+393	1,292,692	277,085			1,292,690 + 277,085 Intersect
TL	950				14.4	90° 40'	-11.0	-25.4			TP							
	1065		63° 49.2' +180°	0°	+11.4	91° -	+18.6	+30.0	586.9		BS	-470+4	-956+2					
	1065				+14.5	90° 50'	+15.5	+30.0			BS							
428	990		63° 1'	0°	12.9	91° -	-17.3	-30.2		556.7		+999	+882	1,292,673	277,013			
429	660		" "	"	11.3	91° -	-11.5	-22.8		564.1		+299	+588	1,292,523	276,719			
430	330		" "	"	11.5	-		-11.5		575.4		+150	+294	1,292,374	276,925			
431	0				5.4	-		-5.4		581.5	T	0	0	1,292,224	276,131			
432	330		244° 22.7'	0°	1A	TH	+1.7	+0.3		582.2		-193	-298	1,292,081	275,833			
433	660		244° 22.7'	0°	2.4	89° -	+11.5	+9.1			TP	-285+4	-595+2	1,291,993	275,538			
433	660				0.4	89° 10'	+9.6	+9.2		596.1	TP							

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
1/8/80		G. Cotcamp		G. Litzinger		6839		GHL		5	34			
AREA		TOPO MAP		STATE		COUNTY		RANGE		PPM		PARTY MANAGER		
Georgia		Crawfordville		Georgia		Taliaferro						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.	
433										596.1				
	660		56°12.6' +180°	0°	+2.4	-		+2.4	599.5		BS	-367+4	-599+2	
	660				+5.7	TH	-3.3	+2.4			BS			
434	330		52°49'	0°	3.2	-		-3.2		595.3		+199	+263	1,291,779 275,254
435	0				5.4	-		-5.4		593.1	π	0	0	1,291,580 279,991
436	330		233°36.6'	0°	12.1	91°-	-5.8	-17.9		580.6		-196	-266	1,291,384 279,725
437	660		233°36.6'	0°	10.1	92°-	-23.0	-33.1		565.4	TP	-390+4	-533+2	1,291,194 279,960
437	660				13.9	91°40'	-19.2	-33.1			TP			
	990		61°50' +180°	0°	+7.9	87°30'	-43.1	-35.2			BS	-466+4	-874+2	
	990				+5.1	87°40'	-40.3	-35.2	530.2		BS			
438	660		61°50'	0°	3.3	87°30'	+28.8	+25.5		555.7		+312	+582	1,291,044 279,170
439	330		" "	"	1.7	TH	+1.7	0.0		530.2		+156	+291	1,290,888 273,879
440	0				5.4	-		-5.4		524.8	π	0	0	1,290,732 273,588
441	330		237°40.6'	0°	3.8	88°-	+11.5	+7.7		537.9		-176	-279	1,290,558 273,309
442	660		237°40.6'	0°	2.9	87°30'	+28.8	+25.9		556.1	TP	-352+4	-558	1,290,384 273,030
442	660				4.8	87°20'	+30.7	+25.9			TP			
	655		5°45' +180°	0°	+13.5	91°56'	+22.1	+35.6	591.7		BS	-651+4	-67	
	655				+14.6	91°50'	+20.9	+35.5			BS			Curve
443	330		356°29'	0°	12.7	91°-	-5.8	-18.5		573.2		+329	-20	1,290,066 272,943
444	0				5.4	-		-5.4		586.3	π	0	0	1,289,737 272,963
445	330		175°39.6'	0°	11.3	-		-11.3		580.4		-329	+25	1,289,908 272,988

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
1/8/80		G. Cutcamp		G. Litzinger		6839		GHC		5	35				
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER					
Georgia		Crawfordville		Georgia	Taliaferro					L.P. 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
									591.7						
446	660		175° 39.6'	0°	9.1	-		-9.1		592.6		-658	+50	1,289,079	273,018
447	990		175° 39.6'	0°	3.4	-		-3.4		588.3	TP	-987+4	+75	1,288,754	273,038
447	990				8.4	TH	+5.0	-3.4			TP				
	1320		356° 0.8' -180°	0°	+3.5	89° 20'	-15.4	-11.9	576.4		BS	-1317+5	+92-5		
	1320				+7.4	89° 10'	-19.2	-11.8			BS				
448	990		356° 0.8'	0°	7.9	89° -	+12.3	+9.4		585.8		+988	-69	1,288,480	273,056
449	660		" "	"	7.2	89° -	+11.5	+4.3		580.7		+658	-46	1,288,100	273,079
450	330		" "	"	1.3	-		-1.3		575.1		+309	-33	1,287,771	273,102
451	0				5.4	-		-5.4		571.0	X	0	0	1,287,442	273,125
452	330		175° 44'	0°	9.6	-		-9.6		566.8		-329	+25	1,287,113	273,150
453	660		" "	"	14.0	-		-14.0		562.4		-658	+49	1,286,784	273,174
454	900		175° 6'	0°	12.4	-		-12.4		564.0		-897	+77	1,286,545	273,202
454	990		175° 44'	-3°	10.8	-		-10.8		565.6		-987	+79	1,286,955	273,204
455	1320		175° 44'	-3°	7.7	-		-7.7		568.7	TP	-1316+2	+105	1,286,128	273,230
455	1320				14.3	TH	+6.6	-7.7			TP				
	1650		357° 45.8' -180°	-3°	+13.4	89° -	-28.8	-15.4	553.3		BS	-1648+2	+73		
	1650				+8.6	89° 10'	-24.0	-15.4			BS				
456	1320		357° 45.8'	-3°	4.7	89° 30'	+11.5	+6.8		560 .1		+1319	-58	1,285,801	273,245
457	990		" "	"	5.3	-		-5.3		548 .0		+989	-44	1,285,971	273,259
458	660		" "	"	6.9	-		-6.9		546 .4		+659	-29	1,285,141	273,274

horiz. correct. $y = +37$
 $x = +5$
 1,286,545 + 273,200
 T-rd (west) e.l. 564'

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 1/15/80	INSTRUMENT MAN G. Cotcamp	ROD MAN G. Litzinger	PARTY NUMBER 6839	NOTES CHECKED BY rlw GHL	LINE NO. 5	PAGE 36
AREA Georgia	TOPO MAP Crawfordville	STATE Georgia	COUNTY Taliaferro	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	X
									553.3							
459	330		357° 45.8'	-3°	2.8	-		-2.8		550.5		+330	-15	1,284,812	273,288	I-20 overpass
460	0				5.4	-		-5.4		547.9	π	0	0	1,284,982	273,303	
⊥	303		171° 4'	-3°	13.7	-		-13.7		539.6		-299	+99	1,284,183	273,352	I-20 interchange
461	330		173° 13'	-3°	13.8	-		-13.8		539.5		-327	+91	1,284,155	273,344	
462	660		168° -	-3°	14.8	8H	-3.3	-18.1		535.2		-645	+141	1,283,837	273,444	
463	988		166° 23.7'	-3°	15.0	-		-15.0		538.3	TP	-959+2	+237	1,283,525	273,540	curve
463	988				10.1	8H	-4.9	-15.0			TP					
	330		348° 52' - 180°	-5°	+10.7	-		+10.7	549.0		BS	-323+2	+67			
	330				+12.4	TH	-1.7	+10.7			BS					
464	0				5.4	-		-5.4		543.6	π	0	0	1,283,204	273,607	
465	330		181° 34.3'	-5°	7.0	-		-7.0			f	-330+2	-6	1,282,876	273,601	
465	330				8.6	TH	+1.7	-6.9		542.1	TP					
	1980		16° 34.7' + 180°	-5°	+9.9	87° 40'	-80.5	-70.6			BS	-1903+2	-548			
	1980				+9.3	87° 50'	-74.8	-70.5	471.6		BS					
466	1650		17° 5'	-5°	3.0	88° -	+57.6	+54.6		526.2		+1581	+471	1,282,556	273,524	
467	1320		" "	-5°	14.7	88° -	+46.0	+31.3		502.9		+1265	+377	1,282,240	273,430	
468	990		" "	"	9.1	89° -	+17.3	+8.2		479.8		+949	+283	1,281,927	273,336	
469	660		" "	"	4.6	-		-4.6		467.0		+633	+188	1,281,608	273,291	
⊥	460		18° 29'	-5°	5.0	-		-5.0		466.6		+438	+142	1,281,413	273,195	bridge (North Fork)
470	330		17° 5'	-5°	4.9	-		-4.9		466.7		+316	+94	1,281,291	273,197	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE								
1/		G. Cotcamp		G. Litzinger		6834		GHL		5	37								
AREA		TOPO MAP	STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER										
Georgia		Crawfordville	Georgia	Taliaferro					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				
									471.6										
471	325		19° 7'	-5°	4.9	-		-4.9		466.7		+308	+104	1,281,283	273,157			1,281,260 + 273,180 T-rd (west) el. 468.	
472	0				5.9	-		-5.4		466.2	X	0	0	1,280,975	273,053				
473	151		192° 27'	-2°	4.8	-		-4.8		466.8		-198	-32	1,280,827	273,021			bridge (south fork)	
474	330		196° 33'	-2°	1.7	-		-1.7		469.9		-317	-93	1,280,658	272,960				
475	660		" "	"	7.0	88° -	+23.0	+16.0		487.6		-633	-186	1,280,392	272,867				
476	990	989	194° 44'	-2°	4.2	87° 30'	+43.1	+38.9		510.5	TP	-957+4	-298-2	1,280,022	272,803				
477	990				1.4	87° 40'	+40.3	+38.9			TP								
478	660	659	1° 23' +180°	-2°	+9.7	93°	+34.5	+44.2	554.7		BS	-659+4	-14-2						
479	660				+14.3	92° 36'	+29.9	+44.2			BS								
480	330		357° 15'	-2°	11.9	92° -	-11.5	-23.4		531.3		+330	-17	1,279,697	272,770				
481	0				5.4	-		-5.4		549.3	TP	0	0	1,279,367	272,787				
482	330		172° 55.4'	-2°	6.3	87° -	+17.2	+10.9		565.6		-327	+42	1,279,090	272,829				
483	660	659	172° 55.4'	-2°	8.9	87° -	+34.5	+25.6		580.3	TP	-654+4	+83-2	1,278,717	272,868				
484	660				5.1	87° 20'	+30.7	+25.6			TP								
485	662		2° 48' +180°	-2°	+11.7	-		+11.7	592.0		BS	-661+4	-30-1						
486	662				+15.0	TH	-3.3	+11.7			BS								
487	330		6° 11'	-2°	8.5	-		-8.5		583.5		+328	+34	1,278,388	272,871				
488	0				5.9	-		-5.4		586.6	X	0	0	1,278,060	272,837			set up opposite station	
489	330		198° -	-2°	1.7	-		-1.7		590.3		-314	-101	1,277,746	272,736				
490	660		196° 38'	-2°	5.7	-		-5.7		586.3		-633	-187	1,277,927	272,650				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 1/15/80	INSTRUMENT MAN G. Cotcamp	ROD MAN G. Litzinger	PARTY NUMBER 6839	NOTES CHECKED BY GHL	LINE NO. 5	PAGE 38
AREA Georgia	TOPO MAP Crawfordville	STATE Georgia	COUNTY Taliaferro	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	X
									592.0							
483	990		199°53.7	-2°	133	-		-13.3			TP	-958+4	-251	1,277,106	272,586	T.P. opposite sta
483	990				121	90°4'	+1.1	-13.2		578.8	TP					
	330		21°11'+180°	-2°	+2.4	-		+2.4			BS	-308+4	-118			
	330				+9.1	TH	-1.7	+2.4	581.2		BS					
484	0				59	-		-5.4		575.8	T	0	0	1,276,802	272,468	
485	330		216°5'	-2°	4.3	-		-4.3		576.9		-267	-193	1,276,535	272,275	
486	655		219°13.3	-2°	5.2	TH	+3.3	-1.9			TP	-509+4	-412	1,276,297	272,056	curve
486	655				76	89°30'	+5.7	-1.9		579.3	TP					
	328		20°23.7'+180°	-2°	+8.8	-		+8.8			BS	-308+4	-113			
	328				+10.9	TH	-1.6	+8.8	588.1		BS					
487	0				59	-		-5.4		582.7	T	0	0	1,275,993	271,993	
488	330		179°1'	-2°	1.5	TH	+1.7	+0.3		588.3		-330	+7	1,275,663	271,950	
489	660		" "	"	3.3	89°	+11.5	+8.2		596.3		-660	+14	1,275,333	271,957	
490	990		" "	"	1.8	89°	+17.3	+15.5		603.6		-990	+20	1,275,003	271,963	
491	1320		179°1'	-2°	4.3	88°50'	+26.9	+22.6		610.7	TP	-1320+4	+27	1,274,677	271,970	
491	1320				8.2	88°40'	+30.7	+22.5			TP					
	650		337°33.8'-180°	-2°	+5.5	89°	-11.3	-5.8	604.9		BS	-600+3	+250			curve
	650				+3.6	89°10'	-9.5	-5.9			BS					horiz. correct. y=+51'
492	330		328°16'	-2°	3.6	89°	+5.8	+2.2		607.1		+280	-175	1,274,360	272,045	1,274,350 + 272,060
492	314		329°36'	-2°	4.3	89°	+5.5	+1.2		606.1		+270	-160	1,274,350	272,060	T-rod (west)

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE							
1/15/80		G. Cotcamp		G. Litzinger		6834		GHL		5		39							
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER					
Georgia		Crawfordville/Sparta		Georgia		Taliaferro								Davis					
STATION NO.	SLOPE DISTANCE	PLOTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS	
												LAT.	DEP.	Y	X				
									604.9										
BM	310		339°30'	-2°	3.6	89°	+5.4	+1.8		606.7		+290	-110	1,274,370	272,110			el. 607. U.S.G.S. 8 WSM 1963	
493	0				54	-		-5.4		599.5	π	0	0	1,274,080	272,220			Crawfordville Quad.	
494	330		128°42'	-2°	11.9	-		-11.9		593.0		-205	+258	1,273,825	272,478			Sparta NW Quad.	
495	650		118°6.1'	-2°	12.0	04	-3.3	-15.3		589.6	TP	-304	+574	1,273,776	272,799			↓	
495	650				11.5	90°20'	-3.8	-15.3			TP							curve	
	990		265°36.3' 180°	-2°	+11.6	89°	-17.3	-5.7			BS	+79	+987						
	990				+5.8	89°20'	-11.5	-5.7	583.9		BS								
496	660		263°38'	-2°	8.7	89°	+11.5	+2.6		586.5		-75	-656	1,273,780	273,125				
497	330		" "	"	2.2	-		-2.2		581.7		-38	-328	1,273,817	273,453				
498	0				54	-		-5.4		578.5	π	0	0	1,273,855	273,781				
499	330		83°25'	-2°	4.0	-		-4.0		579.9		+39	+328	1,273,899	274,109				
500	665		89°39.5'	-2°	1.7	-		-1.7		582.2	TP	+64	+662	1,273,919	274,443			I.P. opposite station (curve)	
500	665				5.0	TH	+3.3	-1.7			TP								
	665		289°34.6' 180°	-2°	+7.1	-		+7.1			BS	-221	+627						
	665				+10.4	TH	-3.3	+7.1	589.3		BS								
501	330		291°50'	-2°	7.3	-		-7.3		582.0		+122	-307	1,273,820	274,763				
502	0				54	-		-5.4		583.9	π	0	0	1,273,698	276,070			not up opposite station	
503	330		139°7'	-2°	5.8	-		-5.8		583.5		-229	+238	1,273,469	275,308				
504	660		137°8.9'	-2°	6.6	-		-6.6		582.7	TP	-482	+451	1,273,216	275,521				
504	660				9.9	TH	+3.3	6.6			TP								

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
1/16/80		G. Cotcamp		G. Litzinger		6839		GWC. Rlw		5	40			
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER			
Georgia		Sparta NW		Georgia		Taliaferro					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.	
504										582.7				
	1320		322° 20' - 180°	-2°	+1.7	-		+1.7	584.4		BS	-1042	+810	
	1320				+8.3	TH	-6.6	+1.7			BS			
505	990		322° 20'	-2°	3.0	-		-3.0		581.4		+782	-608	1,272,956 275,723
506	660		" "	"	4.5	-		-4.5		579.9		+521	-408	1,272,695 275,926
507	330		" "	"	2.0	-		-2.0		582.4		+261	-203	1,272,435 276,128
508	0				54	-		-5.4		579.0	X	0	0	1,272,174 276,331
509	330		148° 8'	-2°	14.7	-		-14.7		569.7		-280	+175	1,271,894 276,506
510	660		" "	"	5.3	92°	-23.0	-28.3		556.1		-559	+350	1,271,615 276,681
511	990		" "	"	7.1	92°	-34.5	-41.6		542.8		-239	+526	1,271,335 276,857
512	1320		148° 8'	-2°	9.2	92°	-46.0	-55.2		529.2	TP	-1119	+701	1,271,055 277,032
512	1320				13.0	91° 50'	-42.2	-55.2			TP			
	1320		329° 22.8' - 180°	-2°	+5.7	89°	-23.0	-17.3	511.9		BS	-1184	+674	
	1320				+1.9	89° 10'	-19.2	-17.3			BS			
513	990		329° 22.8'	-2°	11.4	89°	+17.3	+5.9		517.8		+850	-507	1,270,771 277,201
514	660		" "	"	0.2	-		-0.2		511.7		+567	-338	1,270,488 277,370
515	330		" "	"	3.5	-		-3.5		508.4		+283	-169	1,270,204 277,539
516	0				54	-		-5.4		506.5	X	0	0	1,269,921 277,708
517	330		157° 43'	-2°	9.2	-		-9.2		502.7		-305	+126	1,269,616 277,834
518	660		" "	"	8.2	91°	-11.5	-19.7		492.2		-610	+252	1,269,311 277,960
519	990		" "	"	14.3	91°	-17.3	-31.6		480.3		-915	+379	1,269,006 278,087

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 1/16/80	INSTRUMENT MAN G. Colcamp	ROD MAN G. Litzinger	PARTY NUMBER 6834	NOTES CHECKED BY GWC	LINE NO. 5	PAGE 41
AREA Georgia	TOPO MAP Sparta NW	STATE Georgia	COUNTY Taliaferro	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.	
									511.9					
520	1320		157°45'	0°	9.6	91°20'	-30.7	-40.3		471.6	TP	-1221	+500	1,268,700 278,208
520	1320				5.9	91°30'	-34.5	-40.4			TP			
	1320		338°37.8'-180°	0°	+2.1	89°30'	-11.5	-9.4	462.1		BS	-1229	+481	
	1320				+5.8	89°20'	-15.4	-9.6	9.5		BS			
521	990		338°37.8'	0°	10.8	89°	+17.3	+6.5		468.6		+922	-361	1,268,392 278,328
522	660		" "		7.0	89°	+11.5	+4.5		466.6		+615	-240	1,268,086 278,499
523	330		" "		4.3	89°	+5.8	+1.5		463.6		+307	-120	1,267,778 278,569
524	0				5.4	-	-	-5.4		456.7	π	0	0	1,267,471 278,689
≡	255		155°18'	0°	6.3	-	-	-6.3		455.8		-232	+107	1,267,239 278,796 trail (west)
525	330		158°16'	0°	5.9	-	-	-5.9		456.2		-307	+122	1,267,164 278,811
526	660		" "		6.3	89°	+11.5	+5.2		467.3		-613	+244	1,266,858 278,933
527	990		" "		3.3	88°30'	+25.9	+22.6		484.7		-920	+367	1,266,551 279,056
528	1320		158°16'	0°	5.3	88°30'	+34.5	+29.2			TP	-1226	+489	1,266,245 279,178
528	1320				9.1	88°20'	+38.4	+29.3		491.4	TP			
	660		338°25'-180°	0°	+3.3	89°	-11.5	-8.2	483.2		BS	-613	+243	
	660				+5.2	88°50'	-13.4	-8.2			BS			
529	330		338°25'	0°	3.3	89°	+5.8	+2.5		485.7		+307	-121	1,265,939 279,300
X	95		335°	0°	7.7	-	-	-7.7		475.5		+86	-40	1,265,718 279,381 el. 476. chiseled X (west side)
530	0				5.4	-	-	-5.4		477.8	π	0	0	1,265,632 279,421
531	330		166°35.7'		1.7	-	-	-1.7		481.5		-321	+77	1,265,311 279,498

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
1/16/80		G. Catcamp		G. Hitzinger		6834		Guc Rlw		5	42				
AREA		TOPO MAP		STATE		COUNTY		RANGE		PPM	PARTY MANAGER				
Georgia		Sparta NW		Georgia		Taliaferro					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
									483.2						
532	660		166° 35.7'	±0°	2.4	88° 30'	+17.3	+14.9		498.1	TP	-692	+153	1,264,990	279,574
532	660				4.3	88° 20'	+19.2	+14.9			TP				
	990		349° 57.7' - 180°	0°	+7.5	93° -	+51.7	+59.2	557.3		BS	-975	+173		
	990				+19.3	92° 36'	+44.9	+59.2			BS				
533	660		349° 57.7'	0°	-12.9	92° 20'	-26.8	-39.7		517.6		+650	-115	1,264,665	279,632
534	330		" "	"	14.4	91° -	-5.8	-20.2		537.1		+325	-58	1,264,340	279,689
535	0				5.4	-	-	-5.4		551.9	π	0	0	1,264,015	279,747
536	330		161° 23'	0°	3.6	89° -	+5.8	+2.2		559.5		-313	+105	1,263,702	279,852
537	660		157° 7.3'	0°	13.0	89° -	+11.5	-1.5		555.8	TP	-608	+257	1,263,407	280,004
537	660				5.4	89° 40'	+3.8	-1.6			TP				
	980		319° 41.2' - 180°	0°	+10.6	BH	+4.9	+15.5	571.3		BS	-747	+634		
	980				+9.8	90° 20'	+5.7	+15.5			BS				curve
538	660		316° 35'	0°	13.1	-	-	-13.1		558.2		+479	-454	1,263,139	280,184
539	330		314° 39'	0°	3.3	-	-	-3.3		568.0		+232	-235	1,262,892	280,409
≡	65		325° 1'	0°	3.7	-	-	-3.7		567.6		+53	-37	1,262,713	280,601
540	0				5.4	-	-	-5.4		565.9	π	0	0	1,262,660	280,638
541	330		134° 36.9'	+2°	14.4	BH	-1.7	-16.1		555.2		-233	+234	1,262,927	280,872
542	660		" "	"	10.0	91° -	-11.5	-21.5		549.8		-965	+968	1,262,195	281,106
543	990		" "	"	13.8	BH	-5.0	-18.8		552.5		-698	+702	1,261,962	281,390
BM	1160		132° 15'	+2°	13.6	-	-	-13.6		557.7		-783	+856	1,261,877	281,994

el. 558,
U.S.G.S. 7WSM 1963

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
1/16/80		G. Cotcamp		G. Litzinger		6834		GWC plus		5	43				
AREA		TOPO MAP		STATE		COUNTY		RANGE		PPM	PARTY MANAGER				
Georgia		Sparta NW		Georgia		Taliaferro					Ravis				
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									571.3						
544	1320		134°36.4'	+2°	10.5	BH	-6.6	-17.1		554.2	TP	-930	+937	1,261,730	281,575
544	1320				5.6	90°30'	-11.5	-17.1			TP				
	1320		314°48'-180°	+2°	+12.8	88°	-46.0	-33.2	521.0		BS	-933	+933		
	1320				+5.0	88°20'	-38.4	-33.4			BS				
545	990		314°48'	+2°	1.8	88°20'	+28.8	+27.0		548.0		+700	-700	1,261,497	281,808
W	788		315°45'	+2°	1.1	88°20'	+22.9	+21.8		542.8		+566	-548	1,261,363	281,960
546	660		314°48'	+2°	5.9	88°	+23.0	+17.1		538.1		+467	-467	1,261,264	282,041
547	330		" "	"	3.0	89°	+5.8	+2.8		523.8		+233	-233	1,261,030	282,275
548	0				5.4	-		-5.4		515.6	TP	0	0	1,260,797	282,508
549	330		143° -	+2°	1.4	-		-1.4		519.6		-264	+198	1,260,533	282,706
550	660		145°20.3'	+2°	2.9	-		-2.4		518.6	TP	-544	+373	1,260,253	282,881
550	660				6.7	TH	+3.3	-2.4			TP				
	1320		339°46'-180°	+2°	+6.0	-		+6.0	524.6		BS	-1196	+559-3		
	1320				+12.6	TH	-6.6	+6.0			BS				
551	990		333°7'	+2°	11.8	BH	-4.9	-16.7		507.9		+885	-445	1,259,992	282,998
552	660		" "	"	7.8	91°	-11.5	-19.3		505.3		+590	-296	1,259,697	283,147
W	415		332° -	+2°	14.9	-		-14.9		509.7		+367	-199	1,259,424	283,249
553	330		329° -	+2°	12.7	-		-12.7		511.9		+283	-169	1,259,340	283,274
554	0				5.4	-		-5.4		519.2	TP	0	0	1,259,057	283,443
555	330		135°13'	+2°	1.2	TH	+1.7	+0.5		525.1		-235	+232	1,258,822	283,675

1,261,320 + 281,950
Trail (east)

1,259,420 + 283,225
Trail (west)

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
1/17/80		G. Cotcamp		G. Litzinger		6834		G.W.C. R/W		5	45						
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
Georgia		Sparta NE		Georgia	Taliaferro/Hancock					Davis							
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS	
												LAT.	DEP.	Y	X		
									493.1								
568	660		179°49.3'	+2°	13.1	91°20'	-15.4	-28.5		464.6	TP	-660.4	0 +2	1,255,274	285,363		
568	660				9.3	91°40'	-19.2	-28.5			TP						
	330		13°32.3' +180°	+2°	+0.8	88°-	-11.5	-10.7	453.9		BS	-321.4	-78 +2				
	330				+6.5	87°-	-17.2	-10.7			BS						
569	0				54	-		-5.4		448.5	TP	0	0	1,254,957	285,287		
570	330		207°45.2'	+2°	12.0	91°-	-5.8	-17.8		436.1		-291	-155	1,254,666	285,132		
571	660		207°45.2'	+2°	9.6	91°-	-11.5	-21.1		432.8	TP	-583 +4	-309 +2	1,254,378	284,980	↑	
571	660				14.6	90°34'	-6.5	-21.1			TP					Taliaferro Co.	
	1320		27°51.5' +180°	+2°	+11.3	BH	+6.6	+17.9	450.7		BS	-1165 +4	-621 +2				
	1320				+14.0	90°10'	+3.8	+17.8			BS						
BM	1045		28°55'	+2°	13.8	BH	-5.2	-19.0		431.7		+913	+508	1,254,130	284,869	el. 433.0 U.S.G.S. 43HX 1971	
572	990		27°5'	+2°	12.8	BH	-5.0	-17.8		432.9		+880	+454	1,254,097	284,815	Hancock Co.	
573	660		24°49'	+2°	14.3	BH	-3.3	-17.6		433.1		+598	+279	1,253,815	284,640	↓	
574	330		"	"	13.7	BH	-1.7	-15.4		435.3		+299	+140	1,253,516	284,501		
575	0				54	-		-5.4		445.3	TP	0	0	1,253,217	284,361		
576	330		194°23'	+2°	1.2	88°-	+11.5	+10.3		461.0		-319	-83	1,252,898	284,278		
577	660		190°33'	+2°	8.4	87°-	+34.5	+26.1		476.8		-648	-123	1,252,569	284,238		
578	990		187°-	+2°	5.0	87°20'	+46.0	+41.0		491.7	TP	-982 +4	-124 +2	1,252,239	284,239		
578	990				2.2	87°30'	+43.1	+40.9			TP						

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 1/17/80	INSTRUMENT MAN G. Cotcamp	ROD MAN G. Litzinger	PARTY NUMBER 6834	NOTES CHECKED BY GWC.	LINE NO. 5	PAGE 46
AREA Georgia	TOPO MAP Sparta NE	STATE Georgia	COUNTY Hancock	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.	
578										491.7				
	1650		347° 37.2' - 180°	+2°	+14.3	90° 24'	+11.5	+25.8	517.5		BS	-1613.4	+398	
	1650				+11.4	90° 30'	+14.4	+25.8			BS			
W	1345		347° 22.3'	+2°	8.6	04	-6.7	-15.3		502.2		+1313	-289	1,251,943 284,298 *intersect. el. 502.
579	1320		346° 35'	+2°	14.6	-		-14.6		502.9		+1285	-302	1,251,915 284,285
580	990		" "	"	10.5	-		-10.5		507.0		+964	-226	1,251,597 284,361
581	660		" "	"	9.8	-		-9.8		507.7		+643	-151	1,251,273 284,936
582	330		" "	"	8.1	-		-8.1		509.4		+321	-75	1,250,951 284,512
583	0				5.4	-		-5.4		512.1	π	0	0	1,250,630 284,587
584	330		158° 58.3'	0°	4.5	88° -	+11.5	+7.0		524.5		-308	+118	1,250,322 284,705
585	660		" "	"	11.0	87° -	+34.5	+23.5		541.0		-616	+237	1,250,014 284,824
586	990		" "	"	8.9	87° -	+51.7	+42.8		560.3		-924	+355	1,249,706 284,942
587	1320		" "	"	3.9	87° -	+69.0	+65.1		582.6		-1232	+474	1,249,398 285,061
588	1650		158° 58.3'	0°	2.9	87° -	+86.2	+83.3			TP	-1540+2	+592+3	1,249,092 285,182
588	1650				5.0	86° 56'	+88.1	+83.1	93.2	600.6	TP			
	330		338° 49' - 180°	0°	+10.3	-		+10.3	610.9		BS	-308+2	+119+3	
	330				+12.0	TH	-1.7	+10.3			BS			
589	0				5.4	-		-5.4		605.5	π	0	0	1,248,786 285,304
590	330		171° 10'	0°	11.2	-		-11.6			TP	-326+2	+51+3	1,248,462 285,358
590	330				13.2	TH	+1.7	-11.5		599.4	TP			

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 1/17/80	INSTRUMENT MAN G. Cotcamp	ROD MAN G. Litzinger	PARTY NUMBER 6834	NOTES CHECKED BY GWC	LINE NO. 5	PAGE 47
AREA Georgia	TOPO MAP Sparta NE/NW	STATE Georgia	COUNTY Hancock	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.	
590										599.4				
	330		19° 26.5' +180°	-2°	+0.4	74	-1.7	-1.3	598.1		BS	-320+2	-81+3	
	330				+1.6	89° 30'	-2.9	-1.3			BS			
591	0				5.4	-		-5.4		592.7	π	0	0	1,298,144 285,280
592	336		211° 50'	-2°	2.7	88° 30'	+8.8	+6.1		604.2	TP	-286+2	-176+3	1,247,860 285,107 T.P. opposite sta. (curve)
592	336				6.7	88° 50'	+6.8	+6.1			TP			
	665		62° 2' +180°	-2°	+13.6	91°	+11.6	+25.3			BS	-314	-586+3	
	665				+9.8	91° 20'	+15.5	+25.3	629.5		BS			
≡	637		61° 19'	-2°	13.3	91°	-11.1	-24.4		605.1		+308	+558	1,247,850 + 285,070 T-rd (Line #6)
593	330		62° 49'	-2°	12.8	-		-12.8		616.7		+152	+293	1,247,698 284,817
594	0				5.4	-		-5.4		624.1	π	0	0	1,247,546 284,524
595	330		238° 8'	-2°	10.0	-		-10.0		619.5		-175	-280	1,247,371 284,244
596	660		" "	"	8.3	91°	-11.5	-19.8		609.7		-350	-559	1,247,196 283,965 Sparta NW quad.
597	990		236° 14'	-2°	7.3	91°	-17.3	-24.6		604.9		-553	-821	1,245,993 283,703 Sparta NE
598	1320		235° 36.2'	-2°	2.5	90° 50'	-19.2	-21.7			TP	-749	-1087+3	1,246,797 283,440
598	1320				15.0	84	-6.6	-21.6		607.9	TP			Azimuths reshot 1/18/80
	648		118° 24.3' +180°		+6.3	89° 42'	-3.4	+2.9			BS	-545	-350+3	G.W.C.
	648		32° 55' +180°	-2°	+6.0	89° 44'	-3.0	+3.0	610.9		BS			curve
599	330		108° 31° 55'	-2°	0.3	-		-0.3		610.6		+307	+122	1,246,559 283,215
600	0				5.4	-		-5.4		605.5	π	0	0	1,246,252 283,093
601	330		193° 16' 278° 19'	-2°	9.2	-		-9.2		601.7		-321	-75	1,245,931 283,018

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 1/17/80	INSTRUMENT MAN G. Cotcamp	ROD MAN G. Hitzinger	PARTY NUMBER 6834	NOTES CHECKED BY GWC RLW	LINE NO. 5	PAGE 48
AREA Georgia	TOPO MAP Sparta NW/Sparta NE	STATE Georgia	COUNTY Hancock	RANGE GWC	PPM	PARTY MANAGER Davis

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
									610.9							
BM	670		187° 12.3'	-20	6.2	BH	-3.4	-9.6		601.3		-665	-82	1,245,587	283,011	pt. 602.
///	492		191° 43.5'	-20	10.2	89°58'	+0.3	-9.9		601.0	TP	-482	-98	1,245,770	282,995	U.S.G. S. 44 HSC 1971 1,245,770 + 282,995 Y-intersect.
///	492				9.9	-		-9.9			TP					horiz. correct. y = +39'
	485		340° 40.7' - 180°	-20	+1.5	89° -	-8.5	-7.0	594.0		BS	-957.3	+162			
	485				+2.9	88°50'	-9.9	-7.0			BS					
602	330		340° -	-20	1.1	89° -	+5.8	+4.7		598.7		+310	-114	1,245,626	283,043	
603	0				5.4	-		-5.4		588.6	π	0	0	1,245,316	283,157	
604	330		170° 42'	-20	10.8	-		-10.8		583.2		-325	+54	1,244,991	283,211	
605	660		" "	"	12.5	-		-12.5		581.5		-651	+109	1,244,665	283,266	
606	987		166° 7.5'	-20	11.4	BH	-4.9	-16.3	577.6		TP	-957.3	+240	1,244,362	283,397	curve
606	987				5.0	90° 40'	-11.5	-16.5			TP					
	990		317° 7' - 180°	-20	+0.4	-		+0.4	578.0		BS	-723.3	+676			
	990				+5.4	TH	-5.0	+0.4	575		BS					
607	660		317° 7'	-20	7.4	-		-7.4		570.6		+482	-451	1,244,124	283,622	↑
608	330		" "	"	9.3	-		-9.3		568.7		+241	-225	1,243,883	283,898	Sparta NW
609	0				5.4	-		-5.4		572.6	π	0	0	1,243,692	284,073	Sparta NE
610	330		141° 42.4'	-20	4.2	89° -	+5.8	+1.6		579.6		-258	+205	1,243,384	284,278	↓
611	660		" "	"	3.3	89° -	+11.5	+8.2		586.2		-517	+411	1,243,125	284,484	
612	990		141° 42.4'	-20	8.1	89° -	+17.3	+9.2			TP	-775.3	+616	1,243,870	284,689	
612	990				13.9	88° 40'	+23.0	+9.1		587.1	TP					

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
1/21/80		G. Cotcamp		G. Litzinger		6834		GWC. Rlw		5	49						
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
Georgia		Sparta NE		Georgia	Hancock					Davis							
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS	
												LAT.	DEP.	Y	X		
612										587.1							
	660	659	323°25.6' +180°	-2.0	+4.9	87°30'	-28.8	-23.9			BS	-528.3	+395				
	660				+3.0	87°40'	-26.8	-23.8	563.3		BS						
613	330		325°40'	-2.0	6.1	87°-	+17.2	+11.1		574.4		+272	-187	1,242,617	289,897		
614	0				5.9	-	-	-5.4		557.9	X	0	0	1,242,395	285,084		
615	330		154°6'	-2.0	-14.8	84	-1.7	-16.5		546.8		-296	+145	1,242,049	285,229		
615	590		157°21.3'	-2.0	11.0	91°-	-10.3	-21.3		542.0		-544	+229	1,241,801	285,313	1,241,820 + 285,333 4-Way Intersect.	
616	665		157°27'	-2.0	10.0	91°-	-11.6	-21.6		541.7	TP	-613.3	+257	1,241,735	285,391	TP opposite st.	
616	665				13.9	90°40'	-7.7	-21.6			TP						
	992	991	2°13.8' +180°	-2.0	+13.4	89°-	-34.6	-21.2	520.5		BS	-990.3	-35				
	992				+4.8	88°30'	-26.0	-21.2			BS						
617	660		4°4'	-2.0	8.5	88°-	+23.0	+14.5		535.0		+658	+45	1,241,406	285,351		
618	330		" "	"	2.7	89°-	+5.8	+3.1		523.6		+329	+22	1,241,077	285,328		
619	0				5.4	-	-	-5.4		515.1	X	0	0	1,240,748	285,306		
620	330		185°2.3'	-2.0	7.8	-	-	-7.8		512.7		-329	-28	1,240,419	285,278		
621	660		" "	"	12.5	-	-	-12.5		508.0		-658	-56	1,240,090	285,250		
622	990		185°2.3'	-2.0	10.1	90°40'	-11.5	-21.6			TP	-986.3	-84	1,239,765	285,222		
622	990				12.9	90°30'	-8.6	-21.5		499.0	TP						
	990	989	5°30.8' +180°	-2.0	+5.2	87°-	-51.7	-46.5	452.5		BS	-985.3	-92				
	990				+3.4	87°6'	-50.0	-46.6			BS						
623	660	659	5°30.8'	-2.0	3.6	87°-	+34.5	+30.9		483.4		+656	+61	1,239,439	285,191		

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
1/21/80		G. Lotcamp		G. Litzinger		6837		G.W.C. RW		5	50				
AREA		TOPO MAP		STATE		COUNTY		RANGE		PPM	PARTY MANAGER				
Georgia		Sparta NE		Georgia		Hancock					Davis				
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									452.5						
624	330		5°30.8'	-2°	0.7	88°-	+11.5	+10.8		463.3		+329	+31	1,239,112	285,161
625	0				5.4	-		-5.4		447.1	T	0	0	1,238,783	285,130
BM	210		181°33'	-2°	6.3	-		-6.3		446.2		-210	-5	1,236,573	285,125
	263		186°34'	-2°	7.8	-		-7.8		444.7		-261	-29	1,238,522	285,101
626	330		189°30'	-2°	7.1	-		-7.1		445.4		-326	-53	1,238,957	285,077
627	662		190°45.6'	-2°	3.7	89°-	+11.6	+7.9		460.4	TP	-651.3	-121	1,238,135	285,009
627	662				1.0	89°14'	+8.9	+7.9			TP				
	1320	1318	25°50.8'+180°	-2°	+11.0	93°-	+69.0	+80.0			BS	-1188.1	-570		
	1320				+15.0	92°50'	+65.2	+80.2	540.6		BS				
628	990	989	26°12'	-2°	6.2	93°-	-51.7	-57.9		482.7		+889	+434	1,237,837	284,873
629	660		" "	"	13.3	92°-	-23.0	-36.3		504.3		+593	+289	1,237,541	284,728
630	330		" "	"	14.3	91°-	-5.8	-20.1		520.5		+297	+145	1,237,245	284,584
631	0				5.4	-		-5.4		535.2	T	0	0	1,236,948	284,439
632	330		206°4'	-2°	5.2	87°-	+17.2	+12.0		552.6		-297	-144	1,236,651	284,295
633	660	659	" "	"	8.3	87°-	+34.5	+26.2		566.8		-593	-288	1,236,355	284,151
634	990	989	206°4'	-2°	13.7	87°24'	+44.9	+31.2		571.8	TP	-890	-431	1,236,058	284,008
634	990				12.0	87°30'	+43.1	+31.1			TP				
	658		15°50'+180°	-2°	+8.6	89°-	-11.5	-2.9			BS	-634	-177		
	658				+1.0	89°40'	-3.8	-2.8	569.0		BS				
71	445		14°26'	-2°	1.6	TH	+2.2	+0.6		569.6		+431	+109	1,235,855	283,940

1,235,865 + 283,930
trail (west) el. 570

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
1/21/80		G. Cotcamp		G. Litzinger		6839		GWC R/W		5	57						
AREA		TOPO MAP		STATE	COUNTY	TWP	RANGE	PPM	PARTY MANAGER								
Georgia		Spauld NE		Georgia	Hancock				Davis								
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS	
												LAT.	DEP.	Y	X		
									569.0								
635	330		11° -	-2°	0.6	-		-0.6		568.4		+324	+62	1,235,798	283,893		
636	0				5.4	-		-5.4		563.6	TP	0	0	1,235,924	283,831		
637	330		181° -	-2°	6.2	-		-6.2		562.8		-330	-5	1,235,094	283,826		
638	660		176° 16'	-2°	7.5	-		-7.5		561.5		-658	+46	1,234,766	283,877		
639	980		171° 4'	-2°	7.0	-		-7.0		562.0	TP	-968	+156	1,234,456	283,987	curve	
639	980				2.1	BH	-4.9	-7.0			TP						
	1980		330° 16.3' 180°	-2°	+8.6	BH	+9.9	+18.5			BS	-1716	+988				
	1980				+12.8	90° 10'	+5.8	+18.6	580.6		BS						
640	1650		329° 53'	-2°	10.2	BH	-8.3	-18.5		562.1		+1424	-833	1,234,164	284,142		
641	1320		"	"	10.9	BH	-6.6	-17.0		563.6		+1139	-666	1,233,879	284,309		
642	990		"	"	15.3	-		-15.3		565.3		+855	-500	1,233,595	284,475		
643	660		"	"	12.9	-		-12.9		567.7		+570	-333	1,233,310	284,642		
644	330		"	"	9.5	-		-9.5		571.1		+285	-167	1,233,025	284,808		
645	0				5.4	-		-5.4		575.2	TP	0	0	1,232,740	284,975		
646	330		141° 40'	-2°	0.4	-		-0.4		580.2		-258	+206	1,232,982	285,181		
647	660		136° 43'	-2°	2.9	89° -	+11.5	+8.6		589.2		-479	+454	1,232,261	285,429		
648	990		133° 34'	-2°	1.7	88° 50'	+20.2	+18.5		599.1		-680	+720	1,232,060	285,695		
649	1320		134° 6.7'	-2°	6.4	88° 56'	+26.9	+20.5		601.1	TP	-915	+951	1,231,825	285,926		
649	1320				10.2	88° 40'	+30.7	+20.5			TP						

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
1/21/80		G. Cotcamp		G. Litzinger		6834		GWC RW		5	52			
AREA		TOPO MAP		STATE		COUNTY		RANGE		PPM		PARTY MANAGER		
Georgia		Sparta NE		Georgia		Hancock						Davis		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
649										601.1				
	330		328° 9' -180°	-2°	+2.0	TH	-1.7	+0.3			BS	-280	+175	
	330				+1.9	89° 44'	-1.5	+0.9	601.5		BS			
IF	240		332° 15'	-2°	0.9	-		-0.9		600.6		+212	-112	1,231,757 285,989 Trail (east) el. 601.
650	0				5.4	-		-5.4		596.1	π	0	0	1,231,595 286,101
651	330		163° 16'	-2°	12.2	-		-12.2		589.3		-316	+96	1,231,229 286,197
652	655		168° 48'	-2°	5.5	91° 20'	-15.2	-20.7		580.8	TP	-642	+129.2	1,230,903 286,228 curve
652	655				7.0	91° 12'	-13.7	-20.7			TP			
	658		351° 19' -180°	-2°	+4.5	89° -	-11.5	-7.0	573.8		BS	-650	+102.2	curve
	658				+0.7	89° 20'	-7.7	-7.0			BS			
653	330		346° 4'	-2°	0.5	-		-0.5		573.3		+320	-81	1,230,573 286,247
71	170		346° 21'	-2°	4.2	-		-4.2		569.6		+165	-41	1,230,918 286,287 T-rod (west)
654	0				5.4	-		-5.4		568.4	π	0	0	1,230,253 286,328 unable to locate BM
655	330		152° 23'	0°	1.3	TH	+1.7	+0.9		574.2		-292	+153	1,229,961 286,481
656	658		145° 57.6'	0°	0.2	89° -	+11.5	+11.3		585.1	TP	-545	+368	1,229,708 286,696 curve
656	658				4.1	88° 40'	+15.3	+11.2			TP			
	1980		311° 32.5' -180°	+2°	+11.7	-		+11.7	596.8		BS	-1318	+1477	
	1980				+14.0	89° 56'	-2.3	+11.7			BS			
657	1650		311° 22'	+2°	5.9	-		-5.9		590.9		+1095	-1235	1,229,485 286,938
658	1320		" "	"	5.6	-		-5.6		591.2		+876	-988	1,229,266 287,185
659	990		" "	"	7.4	-		-7.4		589.4		+657	-741	1,229,047 287,432

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
1/21/80		G. CoCamp		G. Litzinger		6834		G.W.C. Rlw		5	53			
AREA		TOPO MAP		STATE		COUNTY		RANGE		PPM		PARTY MANAGER		
Georgia		Sparta NE/Jewell		Georgia		Hancock						Davis		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									596.8					
660	660		311°22'	+2°	8.7	-		-8.7		588.1		+438	-494	1,228,828 287,679
661	330		" "	"	6.9	-		-6.9		589.9		+219	-247	1,228,609 287,926
662	0				54	-		-5.4		591.4	π	0	0	1,228,390 288,173 Sparta NW Quad.
663	330		129°7'	+2°	6.9	-		-6.9		589.9		-186	+273	1,228,204 288,946 Jewell Quad.
664	660		" "	"	9.3	-		-9.3		587.5		-372	+545	1,228,018 288,718
665	990		" "	"	8.0	-		-8.0		588.8		-558	+818	1,227,832 288,991
666	1320		123°22'	+2°	5.8	-		-5.8		591.0		-730	+1100	1,227,660 289,277
667	1650		" "	"	2.8	-		-2.8		594.0		-912	+1375	1,227,478 289,548
668	1830		122°45'	+2°	9.0	TH	+9.2	+0.2		597.0		-995	+1536	1,227,395 289,709 1,227,385 + 289,705 Trail (west) el. 598.0
668	1980		122°42'	+2°	8.1	TH	+9.9	+1.8		598.6		-1075	+1662	1,227,315 289,835
669	2310		" "		4.7	TH	+11.6	+6.9		603.7		-1255	+1990	1,227,135 290,117
670	2640		122°21'	+2°	1.2	TH	+13.2	+12.0		608.8		-1420	+2225	1,226,970 290,398
671	2970		122°32'	+2°	9.5	89°30'	+25.9	+16.4	+16.3	613.1	TP	-1606+3	+2498-3	1,226,787 290,668
671	2970		" "		6.3	89°34'	+22.5	+16.2			TP			
	1650		310°24.3-180°	+2°	+4.5	89°	-28.8	-24.3	588.8		BS	-1074+3	+1253-3	
	1650		" "		+9.3	88°50'	-33.6	-24.3			BS			
672	1320		310°1'	+2°	2.3	89°	+23.0	+20.7		609.5		+852	-1008	1,226,568 290,910
673	990		308°37'	+2°	4.5	89°	+17.3	+12.8		601.6		+621	-771	1,226,337 291,147
674	660		306°47'	+2°	5.2	89°	+11.5	+6.3		595.1		+397	-527	1,226,113 291,391
675	330		" "	"	0.9	TH	+1.7	+0.8		589.6		+199	-264	1,225,915 291,654

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 1/21/80	INSTRUMENT MAN G. Cotcamp	ROD MAN G. Litzinger	PARTY NUMBER 6839	NOTES CHECKED BY Gwl. R.W.	LINE NO. 5	PAGE 5A
AREA Georgia	TOPO MAP JEWELL	STATE Georgia	COUNTY Hancock	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.	
									588.8					
676	0				5.4	-		-5.4		583.4	π	0	0	1,225,716 291,918
677	330		123° 6'	+2°	9.0	-		-9.0		579.8		-181	+276	1,225,535 292,194
678	660		" "	"	7.9	-		-7.9		580.9		-362	+552	1,225,354 292,470
679	800		122° 23'	+2°	7.0	-		-7.0		581.8		-431	+674	1,225,285 292,592 T-rd (west) el. 583.
679	990		123° 6'	+2°	6.8	-		-6.8		582.0		-544	+827	1,225,172 292,745
680	1320		" "	"	8.1	-		-8.1		580.7		-725	+1103	1,224,991 293,021
681	1650		" "	"	9.8	-		-9.8		579.0		-906	+1379	1,224,810 293,297
682	1975		121° 36.5'	+2°	11.7	-		-11.7		577.1	TP	-1091+3	+1678+3	1,224,678 293,593 curve
682	1975				6.0	90° 10'	-5.7	-11.7			TP			
	990		280° 14.3' - 180°	+2°	+5.8	-		+5.8	582.9		BS	-179+3	+974-3	
	990				+10.7	74	-5.0	+5.7			BS			
683	660		277° 8'	+2°	8.0	-		-8.0		574.9		+84	-655	1,224,586 293,909
684	330		" "	"	9.9	-		-9.9		573.0		+42	-327	1,224,544 294,237
685	0				5.4	-		-5.4		577.5	π	0	0	1,224,502 294,569
686	330		96° 9.6'	+2°	2.8	89° -	+5.8	+3.0		585.9		-37	+328	1,224,465 294,892
687	660		" "	"	0.3	89° -	+11.5	+11.2		594.1		-73	+656	1,224,429 295,220
688	990		96° 9.6'	+2°	5.1	88° 50'	+20.2	+15.1		598.0	TP	-110+3	+984+3	1,224,395 295,545
688	990				8.0	88° 40'	+23.0	+15.0			TP			
	660		277° 5.6' - 180°	+2°	+1.8	89° 30'	-5.8	-4.0			BS	-84+3	+655-3	
	660				+3.7	89° 20'	-7.7	-4.0	594.0		BS			

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
1/21/80		G. Coteamp		G. Litzinger		6834		GWC. RW		5		55			
AREA		TOPO MAP		STATE		COUNTY		RANGE		PPM		PARTY MANAGER			
Georgia		Jewell		Georgia		Hancock						Davis			
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									594.0						norm. correct. y = +99' x = -22'
TP	448		279°34'	+2.0	1.5	87°30'	+3.9	+2.4		596.4		+76	-442	1,224,390	295,755
BM	385		284°55'	+2.0	1.8	89°30'	+3.4	+1.6		595.6		+100	-372	1,224,414	295,825
689	330		278°56'	+2.0	1.5	TH	+1.7	+0.2		594.2		+52	-326	1,224,366	295,871
690	0				5.4	-		-5.4		588.6	TP	0	0	1,224,314	296,197
691	330		105°55'	+2.0	13.9	-		-13.9		580.1		-92	+317	1,224,222	296,514
692	660		" "	"	9.8	91°-	-11.5	-21.3		572.7		-183	+634	1,224,131	296,831
693	990		105°55'	+2.0	7.1	91°-	-17.3	-24.4		569.6	TP	-275	+951	1,224,039	297,198
693	990				12.9	90°40'	-11.5	-24.4			TP				
	990		285°50.3'-180°	+2.0	+0.0	-		+0.0	569.6		BS	-274	+951		
	990				+4.9	TH	-5.0	-0.1			BS				
694	660		285°50.3'	+2.0	2.0	-		-2.0		567.6		+182	-634	1,223,997	297,465
695	330		" "	"	3.7	-		-3.7		565.9		+91	-317	1,223,856	297,782
696	0				5.4	-		-5.4		564.2	TP	0	0	1,223,765	298,099
697	330		99°57.6'	+2.0	14.4	-		-14.4		555.2		-58	+325	1,223,707	298,424
698	660		" "	"	7.3	92°-	-23.0	-30.3		539.3		-116	+650	1,223,649	298,749
699	990		" "	"	11.0	92°-	-34.5	-46.5		524.1		-175	+974	1,223,590	299,073
700	1320		99°57.6'	+2.0	7.8	92°-	-46.0	-53.8	-53.9	515.7	TP	-233	+1299	1,223,532	299,398
700	1320				14.9	91°42'	-39.1	-54.0			TP				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 2/2/80	INSTRUMENT MAN G. Cotcamp	ROD MAN M. Stima	PARTY NUMBER 6834	NOTES CHECKED BY GWC	LINE NO. 5	PAGE 56
AREA Georgia	TOPO MAP Jewell	STATE Georgia	COUNTY Hancock	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			
700				+0°						515.7						1,223,532	299,398	
	660		288°59.5'-180°	+0°	+54	89°	-11.5	-6.1	509.6		BS	-215+2	+624-3					
	660				+1.6	89°20'	-7.7	-6.1			BS							
701	330		293°56'	+0°	2.1	TH	+1.7	-0.4		509.2		+134	-302	1,223,453	299,717			
702	0				5.4	-		-5.4		504.2	X	0	0	1,223,319	300,019			
703	330		126°41.2'	+0°	10.7	-		-10.7		498.9		-197	+265	1,223,122	300,284			
704	660		" "	"	15.1	-		-15.1		494.5		-394	+529	1,222,925	300,548			
705	990		126°41.2'	+0°	14.3	90°20'	-5.8	-20.1		489.5	TP	-591+2	+799-3	1,222,730	300,810			
705	990				8.6	90°40'	-11.5	-20.1			TP							
	990		308°21.7'-180°	+0°	+4.6	89°6'	-15.6	-11.0	478.5		BS	-614+2	+776-3					
	990				+3.4	89°10'	-14.4	-11.0			BS							
706	660		308°49'	+0°	6.4	89°	+11.5	+5.1		483.6		+414	-514	1,222,532	301,069			
707	330		311°10'	+0°	0.3	-		-0.3		478.2		+217	-298	1,222,335	301,335			
708	0				5.4	-		-5.4		473.1	X	0	0	1,222,118	301,583			
708	35		124°32'	+0°	5.3	-		-5.3		473.2		-20	+29	1,222,098	301,612			last sta. on pavement 1,222,095 - 301,605 4-way Intersect. cl. 475.
709	322		75°36.3'	+0°	1.3	-		-1.3		477.2		+80	+312	1,222,198	301,895			dirt road
710	652		" "	"	7.8	-		-7.8		470.7		+162	+632	1,222,280	302,215			↓
711	982		75°36.3'	+0°	10.9	89°	+17.1	+6.2		484.7	TP	+294+2	+951-3	1,222,364	302,531			T.P. opposite sta.
711	982				5.2	89°20'	+11.4	+6.2			TP							
	662		260°21'-180°	+0°	+14.6	88°26'	-18.1	-3.5	481.2		BS	+111+2	+653-3					
	662				+14.2	88°26'	-17.7	-3.5			BS							

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
2/2/80		G. Cotcamp		M. Stimac		6834		G.W.C.		5		57			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Georgia		Jewell		Georgia		Hancock								Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									481.2						
712	330		260° 21'	0°	9.7	88° 10'	+10.6	+0.9		482.1		-55	-325	1,222,422	302,856
713	0				5.4	-		-5.4		475.8	T	0	0	1,222,477	303,181
714	328		79° 36'	0°	14.5	92° 20'	-13.3	-27.8		453.4	TP	+87+2	+316-3	1,222,566	303,494
714	328				12.6	92° 40'	-15.2	-27.8			TP				
	660		223° 7' -180°	0°	+13.0	87°	-34.5	-21.5	431.9		BS				
	660	659			+5.3	87° 40'	-26.8	-21.5			BS	+481+3	+450-3		
715	330		223° 7'	0°	3.3	89°	+5.8	+2.5		434.4		-291	-226	1,222,809	303,715
716	0				5.4	-		-5.4		426.5	T	0	0	1,223,050	303,941
717	330		37° 0.2'	0°	13.3	91°	-5.8	-19.1		412.8	TP	+264+2	+199-3	1,223,316	304,137
717	330				10.5	91° 30'	-8.6	-19.1			TP				last sta. on road
	660		297° 29.5' -180°	0°	+8.1	88° 50'	-13.4	-5.3	407.5		BS	+253+2	+610-3		
	660				+10.0	88° 40'	-15.4	-5.4			BS				
718	330		244° 56'	0°	1.2	TH	+1.7	+0.5		408.0		-190	-299	1,223,431	304,445
719	0			"	5.4	-		-5.4		402.1	T	0	0	1,223,571	304,744
720	330		65° -	0°	12.1	TH	+1.7	-10.4		397.1		+139	+299	1,223,710	305,043
721	660		" "	"	14.5	90° 10'	-1.9	-16.4		391.1		+279	+598	1,223,850	305,342
722	990		63° 32.5'	0°	14.4	90° 4'	-1.1	-15.5		392.0	TP	+491+2	+886-3	1,224,014	305,627
722	990				13.3	90° 8'	-2.3	-15.6			TP				paved road
	660		223° 11.2' -180°	0°	+5.3	-		+5.3	397.3		BS	+481+1	+452-3		
	660				+8.6	TH	-3.3	+5.3			BS				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
2/2/80		G. Cotcamp		M. Stimac		6834		GWC		5	58					
AREA		TOPO MAP		STATE		COUNTY		RANGE		PPM		PARTY MANAGER				
Georgia		Jewell		Georgia		Warren						Davis				
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
									397.3						↑ Hancock Co.	
	373		225° 40'	+0°	54	-		-5.4		391.9		-261	-267	1,224,235	305,809	bridge
723	330		223° 11'	+0°	54	-		-5.4		391.9		-241	-226	1,224,255	305,850	Warren Co.
724	0				54	-		-5.4		391.9	π	0	0	1,224,496	306,076	↓
725	330		57° 39'	+0°	5.8	-		-5.8		391.5	TP	+177	+279-1	1,224,673	306,354	
725	330				7.5	TH	+1.7	-5.8			TP					
	330		258° 17'-160°	+0°	+5.7	-		-5.7			BS	+67	+323			
	330				+4.1	BH	+1.7	+5.8	397.3		BS					
<u>1L</u>	248		263° 47'	+0°	4.4	-		-4.4		392.9		-27	-247	1,224,713	306,430	1,224,695 + 306,920 T-rd (north)
726	0				54	-		-5.4		391.9	π	0	0	1,224,740	306,677	
727	330		96° 41'	+0°	5.5	-		-5.5		391.8	TP	-38+3	+328	1,224,705	307,005	
727	330				3.8	BH	-1.7	-5.5			TP					
	2310		282° 28'-180°	+0°	+4.0	91°	+40.3	+44.3			BS	-499+3	+2256			
	2310				+14.8	90° 44'	+29.6	+44.4	436.2		BS					
728	1980		282° 28'	+0°	11.2	91°	-34.6	-45.8		390.4		+427	-1933	1,224,636	307,328	
729	1650		" "	"	8.8	91° 20'	-38.4	-47.2		389.0		+356	-1611	1,224,565	307,650	
730	1320		" "	"	13.8	91° 20'	-30.7	-44.5		391.7		+285	-1289	1,224,494	307,972	
731	990		" "	"	12.2	91° 20'	-23.0	-35.2		401.0		+214	-967	1,224,423	308,294	
732	660		" "	"	13.3	91°	-11.5	-24.8		411.4		+142	-644	1,224,357	308,617	
733	330		" "	"	14.0	-		-14.0		422.2		+71	-322	1,224,280	308,939	
734	0				54	-		-5.4		430.8	π	0	0	1,224,209	309,261	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE		
2/2/80		G. Cotcamp		M. St. Simac		6834		GHL		5		59		
AREA		TOPO MAP		STATE		COUNTY		RANGE		PPM		PARTY MANAGER		
Georgia		Jewell		Georgia		Warren						Davis		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									436.2					
735	330		100° 50'	0°	1.6	TH	+1.7	+0.1		436.3		-62	+324	1,224,147 309,585
736	660		" "		1.9	TH	+3.3	+1.4		437.6		-124	+648	1,224,085 309,909
737	990		99° 8'	0°	3.0	TH	+5.0	+2.0		438.2		-157	+977	1,224,052 310,238
✓ TP	1220		98° 0.2'	0°	3.1	TH	+6.1	+3.0		439.2	TP	-170	+1208	1,224,039 310,469 T-intersect. el. 440.
TP	1220				4.1	89° 40'	+7.1	+3.0			TP			line jogs south
	830		9° 28.3' +180°	0°	+11.2	BH	+4.2	+15.4	454.6		BS	-819+2	-137	
	830				+14.3	90° 4'	+1.0	+15.3			BS			
738	660		9° 4'	0°	12.0	-		-12.0		442.6		+652	+104	1,223,874 310,436
739	330		" "		2.2	-		-2.2		452.4		+326	+52	1,223,548 310,384
740	0				5.4	-		-5.4		449.2	TP	0	0	1,223,222 310,332
741	330		188° 21'	0°	12.5	-		-12.5		442.1		-327	-48	1,222,895 310,284
742	660		" "		8.7	91° -	-11.5	-20.2		434.4		-653	-96	1,222,569 310,236
743	990		" "		14.5	91° -	-17.3	-31.8		422.8		-980	-144	1,222,242 310,188
++++	1123		188° 10'	0°	8.6	91° 20'	-26.1	-34.7		419.9		-1112	-160	1,222,110 310,172 railroad
744	1320		188° 50.8'	0°	13.2	91° -	-23.0	-36.2		418.4	TP	-1304+2	-203	1,221,920 310,129 unable to locate BM
744	1320				10.9	91° 6'	-25.3	-36.2			TP			
	990		12° 19.3' +180°	0°	+5.6	88° 30'	-25.9	-20.3	398.1		BS	-967+2	-211	
	990				+2.7	88° 40'	-23.0	-20.3			BS			
745	660		12° 19.3'	0°	5.1	88° 30'	+17.3	-12.2		385.9		+645	+141	1,221,600 310,059
746	330		" "		3.6	89° -	+5.8	+2.2		400.3		+322	+70	1,221,277 309,988

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
2/2/80		G. Cotcamp		M. Stimac		6834		GHL		5	60			
AREA		TOPO MAP		STATE		COUNTY		RANGE		PPM		PARTY MANAGER		
Georgia		Jewell		Georgia		Warren						Davis		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									398.1					
747	0				5.4	-		-5.4		392.7	X	0	0	1,220,955 309,918
748	330		179°30'	0°	2.7	-		-2.7		395.4		-330	+3	1,220,625 309,921
749	550		178°47'	0°	2.1	89°-	9.6	+7.5		405.6		-550	+12	1,220,405 309,930
749	660		179°30'	0°	3.4	88°30'	+17.3	+13.9		412.0	TP	-660-1	+6	1,220,294 309,924
749	660				5.3	88°20'	+19.2	+13.9			TP			
	660	659	359°9.2'-180°	0°	+5.4	73°-	+34.5	+39.9	451.9		BS	-659-1	+10	
	660				+14.9	72°10'	+24.9	+39.8			BS			
750	330		359°9.2'	0°	14.5	91°-	-5.8	-20.3		431.6		+330	-5	1,219,964 309,929
751	0				5.4	-		-5.4		446.5	X	0	0	1,219,634 309,934
752	330		192°41'	0°	0.8	88°-	+11.5	+10.7		462.6		-322	-72	1,219,312 309,862
753	660		192°49.8'	0°	1.5	88°-	+23.0	+21.5		473.4	TP	-643-1	-146	1,218,990 309,788
753	660	659			5.4	87°40'	+26.8	+21.4			TP			
	1320	1319	4°11.3'+180°	0°	+10.2	87°52'	-49.1	-38.9	434.5		BS	-1315-1	-96	
	1320				+14.8	87°40'	-53.7	-38.9			BS			
754	990	989	3°26'	0°	1.6	87°50'	+37.4	+35.8		470.3		+987	+59	1,218,661 309,751
755	660		" "		1.3	88°-	+23.0	+21.7		456.2		+659	+40	1,218,333 309,732
756	330		" "		3.1	88°-	+11.5	+8.4		442.9		+329	+20	1,218,003 309,712
757	0				5.4	-		-5.4		429.1	X	0	0	1,217,674 309,692
758	330		178°27'	0°	11.9	-		-11.9		422.6		-330	+9	1,217,344 309,701

horiz. correct. y = +33
x = -35'

1,220,405 + 309,930
Trail (west) el. 407'

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
2/4/80		G Cotcamp		M Stimas		6834		GHL		5	61			
AREA		TOPO MAP		STATE		COUNTY		RANGE		PPM		PARTY MANAGER		
Georgia		Jewell		Georgia		Warren						Davis		
STATION NO.	SLOPE DISTANCE	PLOTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									434.5					
759	660		171°43'	0°	10.4	-		-10.4		424.1	TP	-683-1	+95	1,217,020 309,787
759	660				13.7	TH	+3.3	-10.4			TP			
	650		318°22.3'-180°	0°	+10.1	-		+10.1	434.2		BS	-486-1	+432	curve
	650				+13.4	TH	-3.3	+10.1			BS			
760	330		308°54'	0°	6.5	-		-6.5		427.7		+207	-257	1,216,740 309,962
761	0				5.4	-		-5.4		428.8	T	0	0	1,216,533 310,219
762	330		127°22'	0°	9.6	-		-9.6		424.6		-200	+262	1,216,333 310,481
763	660		" "		4.1	-		-4.1		430.1		-400	+525	1,216,133 310,744
764	996		126°54'	0°	2.1	89°30'	+8.7	+6.6		440.8	TP	-587-1	+805	1,215,945 311,024 T.P. opposite sta.
764	996				5.0	89°20'	+11.6	+6.6			TP			
	332		326°11.7'-180°	0°	+3.0	-		+3.0	443.8		BS	-276-1	+185	
	332				+4.7	TH	-1.7	+3.0			BS			
K	60		342°10'	0°	3.3	-		-3.3		440.5		+57	-18	1,215,725 311,191 1,215,720, 311,208 T-rod (442)
765	0				5.4	-		-5.4		438.4	T	0	0	1,215,668 311,209
766	330		165°26'	0°	14.8	90°30'	-2.9	-17.7		426.1	TP	-319	+83-2	1,215,349 311,290
766	330				11.9	91°-	-5.8	-17.7			TP			
	658		353°9.6'-180°	0°	+6.2	-		+6.2	432.3		BS	-653	+78-2	curve
	658				+9.5	TH	-3.3	+6.2			BS			
767	330		347°2'	0°	12.9	-		-12.9		419.4		+322	-74	1,215,018 311,292
BM	292		354°41'	0°	14.3	91°-	-5.1	-19.4		412.9		+291	-27	1,214,987 311,339 U.S.G.S. 50 M.S.C. 1971 Et. 414

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
2/4/80		G. Cotcamp		M. Stimac		6834		GHL		5	62			
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
Georgia		Jewell		Georgia	Warren					Davis				
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									432.3					
768	0				5.4	-		-5.4		426.9	T	0	0	1,214,696 311,366
769	330		152°43'	+2.0°	1.9	88°-	+11.5	+9.6		441.9		-294	+150	1,214,402 311,516
770	660		152°43'	+2.0°	7.0	88°-	+23.0	+16.0		448.3	TP	-588	+300-2	1,214,108 311,664
770	660				5.1	88°10'	+21.1	+16.0			TP			
	1320		332°29.6'-180°	+2.0°	+5.5	90°34'	+13.1	+18.6	466.9		BS	-1173	+606-2	
	1320				+3.2	90°40'	+15.4	+18.6			BS			
771	990		332°29.6'	+2.0°	12.1	84	-5.0	-17.1		449.8		+880	-454	1,213,815 311,814
772	660		"		12.4	84	-3.3	-15.7		451.2		+584	-303	1,213,521 311,965
773	330		"		13.4	-		-13.4		453.5		+293	-151	1,213,228 312,117
774	0				5.4	-		-5.4		461.5	T	0	0	1,212,935 312,268
775	330		164°23'	+2.0°	2.3	89°	+5.8	+3.5		470.4		-318	+88	1,212,617 312,356
775	500		163°13'	+2.0°	4.6	89°	+8.7	+4.1		471.0		-479	+143	1,212,456 312,411
776	660		164°23'	+2.0°	10.1	89°	+11.5	+1.4			TP	-636-2	+175	1,212,297 312,443
776	660				6.2	89°20'	+7.7	+1.5		468.4	TP			
	990		343°46.5'-180°	+2.0°	+2.9	88°30'	-25.9	-23.0	445.4		BS	-952-2	+273	
	990				+5.8	88°20'	-28.8	-23.0			BS			
777	660		342°49'	+2.0°	4.0	88°30'	+17.3	+13.3		458.7		+631	-193	1,211,974 312,523
778	330		"		4.7	88°30'	+8.6	+3.9		449.3		+316	-96	1,211,659 312,620
779	0				5.4	-		-5.4		440.0	T	0	0	1,211,343 312,716
780	330		156°20'	+2.0°	10.7	-		-10.7		434.7		-303	+131	1,211,040 312,847

1218475 312415
T-rd (E1.473)

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
2/4/80		G. Cotcamp		M. St. mac		6834		GHL		5		63			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Georgia		Jewell		Georgia		Warren								Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									445.4						
781	660		156° 20'	+1.2°	9.5	91°	-11.5	-21.0		424.4		-605	+263	1,210,738	312,979
782	990		" "		12.0	91°	-17.3	-29.3		416.1		-908	+394	1,210,435	313,110
783	1320		" "		7.9	91°	-23.0	-30.4		415.0		-1211	+526	1,210,132	313,242
784	1650		156° 20'	+1.2°	0.3	91°	-28.8	-29.12		416.3	TP	-1514.2	+657	1,209,827	313,373
784	1650				5.1	90° 50'	-24.0	-29.13			TP				
	1320		340° 52.5' -180°	+1.2°	+13.8	-		+13.8	430.1		BS	-1249.2	+428		
	1320				+7.2	BH	+6.6	+13.8			BS				
785	990		340° 52.5'	+1.2°	3.5	91°	-17.3	-20.8		409.3		+936	-321	1,209,512	313,480
786	660		338° 2'	+1.2°	8.8	91°	-11.5	-20.3		409.8		+613	-245	1,209,189	313,556
787	330		" "		12.0	-		-12.0		418.1		+306	-123	1,208,882	313,678
788	0				5.4	-		-5.4		424.7	TP	0	0	1,208,576	313,801
789	330		156° 35'	+1.2°	1.9	-		-1.9		428.2		-303	+130	1,208,273	313,931
790	660		" "		0.9	-		-0.9		429.2		-607	+260	1,207,969	314,061
791	925		155° 58.5'	+1.2°	2.2	TH	+4.6	+2.4		432.5		-846	+374	1,207,730	314,175
791	990		156° 35'	+1.2°	2.3	TH	+5.0	+2.7		432.8		-910	+390	1,207,666	314,191
792	1320		156° 35'	+0°	1.8	TH	+6.6	+4.8		434.9	TP	-1211+4	+525-2	1,207,369	314,324
792	1320				6.7	89° 30'	+11.5	+4.8			TP				
	1318		333° 44' -180°	+0°	+4.4	TH	-6.6	-2.2			BS	-1182+4	+583-2		curve
	1318				+5.6	89° 40'	-7.7	-2.1	432.8		BS				
793	990		332° 20'	+0°	4.2	TH	+5.0	+0.8		433.6		+877	-460	1,207,068	314,445

Horiz CORRECT^{y=-16}_{x=-8}

1,207,730 314,175 / el. 9-Way Intersect. (434)

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
2/5/80		G. Cotcamp		M. Stimac		6834		GHL		5	64					
AREA		TOPO MAP		STATE	COUNTY	TWP	RANGE	PPM	PARTY MANAGER							
Georgia		Jewell		Georgia	Warren				Davis							
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS
												LAT.	DEP.	Y	X	
794	660		331°	0°	2.0	-		-2.0		430.8		+577	-320	1,206,768	314,585	
795	330		" "		7.8	-		-7.8		425.0		+289	-160	1,206,480	314,745	
796	0				5.4	-		-5.4		427.4	π	0	0	1,206,191	314,905	
797	330		153°5.5'	0°	13.5	-		-13.5		419.3		-294	+149	1,205,897	315,054	
798	660		" "		4.0	92°	-23.0	-27.0		405.8		-589	+299	1,205,602	315,204	
799	990		" "		8.7	91°30'	-25.9	-34.6		398.2		-883	+448	1,205,308	315,353	
800	1320		" "		7.7	91°30'	-34.5	-42.2		390.6		-1177	+597	1,205,014	315,502	
801	1650	16.49	" "		7.5	91°30'	-43.2	-50.7		382.1		-1470	+746	1,204,721	315,651	
802	1980	14.79	153°5.5'	0°	7.8	91°30'	-51.8	-59.62		373.2	TP	-1765+4	+896-2	1,204,430	315,799	
802	1980		" "		13.6	91°20'	-46.0	-59.62			TP					
	1320		342°7' - 180°	0°	+8.8	TH	-6.6	+2.2			BS	-1256+4	+405-2			
	1320		" "		+2.2	-		+2.2	375.4		BS					
803	990		343°17'	0°	8.3	-		-8.3		367.1		+948	-285	1,204,126	315,917	
804	660		" "		7.8	-		-7.8		367.6		+632	-190	1,203,810	316,012	
805	330		" "		5.7	-		-5.7		369.7		+316	-95	1,203,494	316,107	
806	0		" "		5.4	-		-5.4		370.0	π	0	0	1,203,178	316,202	last sta. on pavement
1/2	68		152°52'	0°	4.0	-		-4.0		371.4		-61	+31	1,203,117	316,233	1203135 316210 T-intersect (E1. 373)
807	305		114°14'	0°	4.0	-		-4.0		371.4		-125	+278	1,203,053	316,480	dirt road
808	635		" "		6.3	89°	+11.1	+4.8		380.2		-261	+579	1,202,917	316,781	

SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
2/5/80		G. Cotcamp		M. Stimar		6834		GHL		5	65					
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER					
Georgia		Jewell		Georgia		Warren					Davis					
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS A TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
									375.4							
809	965		113° 21'	+1°	3.1	88° 40'	+22.4	+19.3			TP	-384+3	+885-2	1,202,797	317,085	T.P. opposite sta.
809	965				8.7	88° 20'	+28.1	+19.4		394.8	TP					
	990	989	300° 42.2' -180°	+1°	+1.1	92° -	+34.5	+35.6	430.4		BS	-506+3	+849-2			
	990				+12.6	91° 20'	+23.0	+35.6			BS					
810	660		300° 42.2'	+1°	15.3	91° -	-11.5	-26.8		403.6		+337	-568	1,202,631	317,364	
811	330		"		15.1	-		-15.1		415.3		+169	-283	1,202,463	317,649	
812	0				5.4	-		-5.4		425.0	TP	0	0	1,202,294	317,932	
813	330		133° 36'	+1°	1.9	-		-1.9		428.5		-228	+239	1,202,066	318,171	
814	665		131° 43.6'	+1°	0.5	-		-0.5		429.9	TP	-443+3	+496-2	1,201,854	318,426	T.P. opposite sta.
814	665				3.8	TH	+3.3	-0.5			TP					
	990		336° 16' -180°	+1°	+7.8	90° 30'	+8.6	+16.4			BS	-920+3	+365			
	990				+5.0	90° 40'	+11.5	+16.5	446.4		BS					
815	660		338° 16'	+1°	5.8	90° 40'	-7.7	-13.5		432.9		+614	-243	1,201,551	318,548	
816	330		334° 28'	+1°	9.6	-		-9.6		436.8		+298	-142	1,201,235	318,649	
817	0				5.4	-		-5.4		441.0	TP	0	0	1,200,937	318,791	
818	330		153° 51.6'	+1°	2.2	-		-2.2		444.2		-297	+145	1,200,640	318,936	
819	660		153° 51.6'	+1°	2.1	-		-2.1		444.3	TP	-593+3	+290	1,200,347	319,081	
819	660				5.4	TH	+3.3	-2.1			TP					
	660		344° 21.3' -180°	+1°	+9.3	-		+4.3	448.6		BS	-636+3	+177			
	660				+7.6	TH	-3.3	+4.3			BS					

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY			LINE NO.		PAGE			
2/5/80		G. Cotcamp		M. Stimas		6834		GHL			5		66			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
Georgia		Jewell/Beall Springs		Georgia		Warren								Davis		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
									448.6							
820	330		349°21.3'	+1°	4.6	-		-4.6		444.0		+318	-88	1,200,032	319,170	
821	0				5.4	-		-5.4		443.2	X	0	0	1,199,714	319,258	
822	330		168°21'	+1°	14.3	BH	-1.7	-16.07		432.6	TP	-323+3	+66	1,199,394	319,324	last sta. on dirt road
822	330				13.1	90°30'	-2.9	-16.07			TP					
	250		289°15.6'-180°	+1°	+8.8	-		+8.8	441.4		BS	-83	+236			sharp curve
	250				+10.1	TH	-1.3	+8.8			BS					
<u>1/2</u>	178		258°39'	+1°	10.4	-		-10.4		431.0		-35	-175	1,199,276	319,385	1199,300 319,400 T-intersect. (El. 432)
823	0				5.4	-		-5.4		436.0	X	0	0	1,199,311	319,560	paved road
824	330		73°53.8'	+1°	2.5	89°-	+5.8	+3.3		444.7		+91	+317	1,199,402	319,877	↓
825	660		" "		6.3	89°-	+11.5	+5.2		446.6		+182	+634	1,199,493	320,194	
826	990		" "		6.2	89°-	+17.3	+11.1		452.5		+273	+952	1,199,584	320,512	
827	1320		73°53.8'	+1°	6.1	89°-	+23.0	+16.9		458.3	TP	+364	+1269-5	1,199,675	320,824	
827	1320				2.3	89°0'	+19.2	+16.9			TP					
	650		286°8.7'-180°	+1°	+8.3	89°-	-11.3	-3.0			BS	-182	+624-5			
	650				+10.3	88°50'	-13.2	-2.9	455.4		BS					
<u>1/2</u>	580		292°20'	+1°	5.3	89°-	+10.1	+4.8		460.2		+221	-536	1,199,714	320,907	1199,715 320,920 T-intersect. (El. 462)
828	330		290°53'	+1°	1.3	TH	+1.7	+0.4		455.8		+118	-308	1,199,611	321,135	
829	0				5.4	-		-5.4		450.0	X	0	0	1,199,493	321,443	↑
830	330		111°-	+1°	11.4	-		-11.4		444.0		-119	+308	1,199,374	321,751	Jewell Quad.
831	660		" "		14.2	BH	-3.3	-17.5		437.9		-238	+616	1,199,255	322,059	Beall Springs ↓

SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
2/5/80		G. Cotcamp		M. Stimac		6834		GHL		5	67					
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER						
Georgia				Georgia	Warren					Davis						
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH +	EAST +	COORDINATES		REMARKS
												SOUTH -	WEST -	Y	X	
									455.4							
832	990		112°52.5'	+1°	1.8	90°50'	-14.4	-16.2		439.2	TP	-386+2	+911-5	1,199,109	322,349	
832	990				3.5	90°44'	-12.7	-16.2			TP					
	990		309°5'-180°	+1°	+7.5	91°20'	+23.0	+30.5			BS	-556+2	+819-5			
	990				+8.7	91°16'	+21.9	+30.6	469.8		BS					
833	660		309°5'	+1°	7.4	91°-	-11.5	-18.9		450.9		+371	-544	1,198,926	322,617	
834	330		" "		9.3	-		-9.3		460.5		+185	-273	1,198,740	322,890	horiz. correct. Y=+41, X=-39
835	0				5.4	-		-5.4		464.4	X	0	0	1,198,555	323,163	
835	310		122°8'	+1°	1.6	-		-1.6		468.2		-145	+262	1,198,390	323,425	Y=198,390 X=323,425 4-Way (El. 470)
836	330		123°37'	+1°	1.4	-		-1.4		468.4		-183	+274	1,198,372	323,437	
837	660		" "		0.2	TH	+3.3	+3.1		472.9		-366	+549	1,198,189	323,712	
838	990		120°32'	+1°	9.4	89°-	+17.3	+7.9		477.7	TP	-504+2	+852-2	1,198,053	324,013	
838	990				3.7	89°20'	+11.5	+7.8			TP					
	1317		278°56'-180°	+1°	+3.6	91°-	+23.0	+26.6	504.3		BS	-207+2	+1301-2			
	1317				+14.3	90°32'	+12.3	+26.6			BS					curve
839	990		276°47'	+1°	5.3	91°-	-17.3	-22.6		481.7		+119	-983	1,197,967	324,329	
840	660		" "		6.9	91°-	-11.5	-18.4		485.9		+79	-655	1,197,927	324,657	
841	330		" "		12.2	-		-12.2		492.1		+40	-328	1,197,888	324,984	
842	0				5.4	-		-5.4		498.9	X	0	0	1,197,848	325,312	
843	330		96°18'	+1°	2.0	-		-2.0		502.3		-37	+328	1,197,811	325,640	
844	660		" "		4.8	-		-4.8		499.5		-74	+656	1,197,774	325,968	

SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

DATE 2/7/80	INSTRUMENT MAN G. Cotcamp	ROD MAN M. Stimar	PARTY NUMBER 6834	NOTES CHECKED BY GHL	LINE NO. 5	PAGE 68
AREA Georgia	TOPO MAP	STATE Georgia	COUNTY Warren	TWP	RANGE	PPM
					PARTY MANAGER Davis	

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS
												LAT.	DEP.	Y	X			
845	990		94°133'	+1°	9.5	-		-9.5		494.8	TP	-75+2	+987-2	1,197,775	326,297			
845	990				14.5	TH	+5.0	-9.5			TP							
	660		258°155'-180°	+1°	+5.3	-		+5.3	500.1		BS	+133+2	+646-2					
	660				+8.6	TH	-3.3	+5.3			BS							
846	330		253°-	+1°	9.2	-		-9.2		490.9		-96	-316	1,197,814	326,625			
847	0				54	-		-5.4		494.7	TP	0	0	1,197,910	326,941			
848	330		67°3'	+1°	1.2	TH	+1.7	+0.5		500.6		+128	+304	1,198,038	327,245			
849	660		" "		5.7	88°30'	+17.3	+11.6		511.7		+256	+608	1,198,166	327,549			
850	990		67°3'	+1°	5.3	88°30'	+25.9	+20.6		520.7	TP	+384+2	+912	1,198,296	327,853			
850	990				1.3	88°44'	+21.9	+20.6			TP							
	990		249°23'-180°	+1°	+3.9	-		+3.9	524.6		BS	+353+2	+925					
	990				+8.9	TH	-5.0	+3.9			BS							
851	660		250°23'	+1°	2.9	-		-2.9		521.7		-220	-622	1,198,431	328,156			
IL 7F	462		252°30'	+1°	3.3	-		-3.3		521.3		-139	-441	1,198,513	328,337	1198,513 x 328,337 4-Way Intersect	El. 523	
852	330		" "		4.4	-		-4.4		520.2		-99	-315	1,198,552	328,463			
853	0				54	-		-5.4		519.2	TP	0	0	1,198,651	328,778			
854	330		82°10'	+1°	8.3	-		-8.3		516.3		+44	+327	1,198,695	329,105			
855	660		87°34.5'	+1°	11.8	8H	-3.3	-15.1		509.5	TP	+27+1	+659-1	1,198,679	329,436			
855	660				11.3	90°20'	-3.8	-15.1			TP							

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY			LINE NO.	PAGE					
2/7/80		G. Cotcamp		M. Stimar		6834		GHL			5	69					
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER						
Georgia		Beall Springs		Georgia		Warren					Davis						
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS	
												LAT.	DEP.	Y	X		
855										509.5							
	990		278° 58.8' -180°	+1.0°	+13.9	-		+13.9	523.4		BS	-156 +1	+978-1				
	990				+8.9	QH	+5.0	+13.9			BS						
856	660		280° -	+1.0°	12.7	-		-12.7		510.7		+116	-650	1,198,640	329,763		
857	330		283° 50'	+1.0°	39	-		-3.9		519.5		+79	-320	1,198,603	330,093		
858	0				54	-		-5.4		518.0	TP	0	0	1,198,524	330,413		
859	330		107° 23.3'	+1.0°	5.0	-		-5.0		518.4		-99	+315	1,198,425	330,728		
860	660				3.0	TH	+3.3	+0.3		523.7		-198	+629	1,198,326	331,042		
861	990		107° 23.3'	+1.0°	3.6	89° 30'	+8.6	+5.0		528.4	TP	-298+1	+944-1	1,198,227	331,356		
861	990				6.5	89° 20'	+11.5	+5.0			TP						
	987		282° 7.3' -180°	+1.0°	+19.6	88° 14'	-30.4	-15.8	512.6		BS	-209+1	+965-1				curve
	987				+13.5	88° 18'	-29.3	-15.8			BS						
862	660		279° 16'	+1.0°	11.2	88° -	+23.0	+11.8		524.4		+107	-651	1,198,126	331,669		
863	330		275° 9'	+1.0°	0.1	-		-0.1		512.5		+30	-329	1,198,049	331,991		
864	0				54	-		-5.4		507.2	TP	0	0	1,198,019	332,320		
865	330		82° 17'	+1.0°	3.0	-		-3.0		509.6		+44	+327	1,198,063	332,647		
866	660		" "		0.4	-		-0.4		512.2		+87	+654	1,198,106	332,974		
867	990		82° 7.8'	+1.0°	1.7	TH	+5.0	+3.3		515.9	TP	+134 +1	+981-1	1,198,154	333,300		
867	990				5.4	89° 30'	+8.6	+3.2			TP						
	985		259° 7.8' -180°	+1.0°	+5.0	90° 42'	+12.0	+17.0	532.9		BS	+184+1	+968-1				curve
	985				+4.4	90° 44'	+12.6	+17.0			BS						

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
2/7/80		G. Cotcamp		G. Litzinger		6834		GHL		5	70					
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER					
Georgia		Beall Springs		Georgia		Warren					Davis					
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
									532.9							
868	660		260°47'	+1.0°	13.9	-		-13.9		519.0		-105	-652	1,198,234	333,615	
869	330		271°-	+1.0°	11.9	-		-11.9		521.0		+6	-330	1,198,345	333,937	
±F	253		278°49'	+1.0°	11.1	-		-11.1		521.8		+39	-250	1,198,378	334,017	1,198,390 X 334,017 4-way Interest.
870	0				5.4	-		-5.4		527.5	X	0	0	1,198,339	334,267	
871	330		96°24.3'	+1.0°	3.3	89°-	+5.8	+2.5		535.4		-37	+328	1,198,302	334,595	
872	660		96°24.3'	+1.0°	10.5	89°-	+11.5	+1.0		533.9	TP	-75+1	+656-1	1,198,265	334,922	
872	660				4.8	89°30'	+5.8	+1.0			TP					
	658		271°51.7'-180°	+1.0°	+3.9	88°-	-23.0	-19.1			BS	-23+1	+658-1			
	658				+2.0	88°10'	-21.0	-19.0	514.9		BS					
873	330		268°50'	+1.0°	2.7	88°-	+11.5	+8.8		523.7		-6	-330	1,198,237	335,249	
874	0				5.4	-		-5.4		509.5	X	0	0	1,198,243	335,579	
875	330		81°39.3'	+1.0°	14.1	91°-	-5.8	-19.9		495.0		+47	+327	1,198,290	335,906	
876	660		" "		10.1	92°-	-23.0	-33.1		481.8		+95	+653	1,198,338	336,232	
877	790	989	81°39.3'	+1.0°	9.1	92°-	-34.5	-43.6		471.3	TP	+142	+979-1	1,198,385	336,557	
877	990				14.9	91°40'	-28.8	-43.7			TP					
	1650		261°29'-180°	+1.0°	+13.6	91°-	+28.8	+42.4			BS	+242	+1632			
	1650				+10.8	91°6'	+31.7	+42.5	513.8		BS					
878	1320	1319	261°29'	+1.0°	4.0	92°-	-46.0	-50.0		463.8		-193	-1305	1,198,434	336,834	
879	990	989	" "		13.2	92°-	-34.5	-47.7		466.1		-145	-978	1,198,482	337,211	
880	660		" "		11.0	92°-	-23.0	-34.0		479.8		-97	-653	1,198,530	337,536	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 2/7/80		INSTRUMENT MAN G. Cotcamp		ROD MAN G. Litzinger		PARTY NUMBER 6834		NOTES CHECKED BY GHL		LINE NO. 5		PAGE 71			
AREA Georgia		TOPO MAP Beall Springs		STATE Georgia		COUNTY Warren		TWP		RANGE		PPM		PARTY MANAGER Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									513.8						
881	330		261°29'	+1.0	11.7	91°-	-5.8	-17.5		496.3		-48	-326	1,198,579	337,863
882	0				5.4	-		-5.4		508.4	π	0	0	1,198,627	338,189
883	330		81°25.3'	+1.0	1.1	-		-1.1		512.7		+49	+326	1,198,676	338,515
884	660		" "		2.9	89°-	+11.5	+8.6		522.4		+97	+653	1,198,724	338,842
885	990	989	" "	+1.0	11.9	88°-	+34.5	+22.6		536.4		+146	+978	1,198,773	339,167
886	1320	1319	" "		8.3	88°20'	+38.4	+30.1		543.9		+194	+1305	1,198,821	339,494
887	1650	1649	" "		14.6	88°20'	+48.0	+33.4		547.2		+243	+1631	1,198,870	339,820
888	1980	1979	81°25.3'	+1.0	14.1	88°22'	+56.4	+42.3		556.1	TP	+292	+1987	1,198,919	340,146
888	1980				11.9	88°26'	+54.1	+42.2			TP				
	660		267°41'-180°	+1.0	+4.8	89°-	-11.5	-6.7	549.4		BS	+26	+660		
	660				+10.5	88°30'	-17.3	-6.8			BS				
889	330		271°28'	+1.0	2.7	89°-	+5.8	+3.1		552.5		+9	-330	1,198,954	340,476
890	0				5.4	-		-5.4		544.0	π	0	0	1,198,945	340,806
891	330		101°-	+1.0	13.8	-		-13.8		535.6		-64	+324	1,198,881	341,130
	435		100°7'	+1.0	13.0	BH	-2.2	-15.2		534.2		-77	+428	1,198,868	341,234
892	660		103°59.6'	+1.0	14.3	BH	-3.3	-17.6		531.8	TP	-161	+640	1,198,784	341,446
892	660				14.1	90°18'	-3.5	-17.6			TP				
	660		291°3'-180°	+1.0	+0.2	-		+0.2	532.0		BS	-238	+616		
	660				+3.5	TH	-3.3	+0.2			BS				
893	330		291°3'	+1.0	2.6	-		-2.6		529.4		+119	-308	1,198,665	341,754

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
2/7/80		G. Cotcamp		G. Litzinger		6834		BHL		5		72				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
Georgia		Beall Springs		Georgia		Warren								Davis		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
									532.0							
899	0				5.9	-		-5.4		526.6	T	0	0	1,198,546	342,062	HORIZ CONNECT $y+20$ $y-17$
	310		109° -	+1°	13.9	-		-13.9		518.1		-101	+293	1,198,445	342,355	$y+20$ $y-17$ intersect
895	330		110° 55.3'		14.3	-		-14.3		517.7		-118	+308	1,198,425	342,370	
896	660		110° 55.3'	-2°	11.7	-		-11.7		520.3	TP	-234+3	+617-3	1,198,315	342,676	
896	660				8.4	BH	-3.3	-11.7			TP					
	663		798° 42.3' - 180°	-2°	+12.6	91° -	+11.6	+24.2	544.5		BS	-316+3	+583-3			
	663				+14.6	90° 50'	+9.6	+24.2			BS					
897	330		298° 42.3'	-2°	13.7	-		-13.7		530.8		+157	-290	1,198,159	342,966	
	206		302° 33'	-2°	9.3	-		-9.3		535.2		+110	-174	1,198,112	343,082	Y-intersect (E1.535)
898	0				5.4	-		-5.4		539.1	T	0	0	1,198,002	343,256	set up opposite sta.
899	330		130° 20'	-2°	9.2	-		-9.2		535.3		-213	+252	1,197,789	343,508	
900	660		" "		13.4	-		-13.4		531.1		-425	+505	1,197,577	343,761	
901	990		" "		11.7	BH	-5.0	-16.7		527.8		-438	+757	1,197,364	344,013	
902	1323		130° 20'	-2°	6.5	70° 20'	-7.7	-14.2		530.3	TP	-853+3	+1011-3	1,197,152	344,264	curve
902	1323				5.0	90° 24'	-9.2	-14.2			TP					
	660		283° 10.6' - 180°	-2°	+4.3	89° -	-11.5	-7.2	523.1		BS	+148+3	+643-3			
	660				+8.2	88° 40'	-15.4	-7.2			BS					
903	330		276° 5'	-2°	0.1	89° -	+5.8	+5.7		528.8		+34	-328	1,197,041	344,576	
904	0				5.4	-		-5.4		517.7	T	0	0	1,197,007	344,904	
905	330		88° 23'	-2°	12.4	-		-12.4		510.7		+10	+330	1,197,017	345,234	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE						
2/8/80		G. Cotcamp		M. Stimac		6839		GHL		5		73						
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER				
Georgia		Beall Springs		Georgia		Warren/Glascock								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			
									523.1									
906	660		88° 23'	-2°	8.9	-		-8.9		514.2		+21	+660	1,197,028	345,564			
907	990		89° 30'	-2°	10.4	TH	+5.0	-5.4		517.7	TP	+12+3	+990-3	1,197,022	345,891			
907	990				5.4	-		-5.4			TP							
	1310		291° 42.6' -180°	-2°	+14.5	89°	-22.9	-8.4			BS	-480+3	+1219-3					Curve
	1310				+13.1	89° 4'	-21.3	-8.2	509.5		BS							
908	990		299° 25'	-2°	0.3	TH	+5.0	+4.7		514.2		+406	-903	1,196,951	346,204			
909	660		" "		1.1	-		-1.1		508.4		+271	-602	1,196,816	346,505			
910	330		" "		4.6	-		-4.6		504.9		+135	-301	1,196,680	346,806			
911	0				5.4	-		-5.4		504.1	X	0	0	1,196,545	347,107			
912	330		108° 15'	-2°	5.9	-		-5.9		503.6		-102	+314	1,196,443	347,421			
913	660		102° 51'	-2°	2.9	-		-2.9		506.6		-145	+644	1,196,400	347,751			
914	990		100° 46.6'	-2°	9.2	89°	+17.3	+8.1		517.6	TP	-182+3	+973-2	1,196,366	348,078			
914	990				3.4	89° 20'	+11.5	+8.1			TP							
	330		283° 54' -180°	-2°	+13.8	-		+13.8	531.4		BS	-78+3	+321-2					
	330				+12.1	0H	+1.7	+13.8			BS							↑
915	0				5.4	-		-5.4		526.0	X	0	0	1,196,291	348,397			Warren Co
915	330		120° 57'	-2°	8.3	-		-8.3		523.1		-169	+284	1,196,122	348,681			4-way Intersect.
916	330		122° 52'	-2°	8.6	-		-8.6		522.8		-178	+278	1,196,113	348,675			Glascock Co.
917	660		127° 33'	-2°	9.9	-		-9.9		521.5	TP	-400+3	+525-4	1,195,894	348,918			↓
917	660				13.2	TH	+3.3	-9.9			TP							

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE		
2/8/80		G. Cotcamp		M. Stimac		6834		GHL		5		74		
AREA		TOPO MAP		STATE		COUNTY		RANGE		PPM		PARTY MANAGER		
Georgia		Beall Springs		Georgia		Glasscock						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.	
917										521.5				
	990		312° 55.7' - 180°	-2°	+5.1	-		+5.1	526.6		BS	-672+3	+227-4	
	990				+10.1	TH	-5.0	+5.1			BS			
918	660		312° 55.7'	-2°	6.1	-		-6.1	520.5			+448	-485	1,195,673 349,156
919	330		" "		5.9	-		-5.9	520.7			+224	-242	1,195,449 349,399
920	0				5.4	-		-5.4	521.2		X	0	0	1,195,225 349,641
921	330		143°	-2°	12.2	-		-12.2	514.4			-263	+200	1,194,962 349,841
922	665		147° 38'	-2°	1.4	91° 34'	-18.2	-19.6			TP	-560+3	+358-4	1,194,668 349,995 T.P. opposite sta.
922	665				5.2	91° 14'	-14.3	-19.5	507.1		TP			
	1655	165-4	336° 32.2' - 180°	-2°	+11.7	88° -	-57.7	-46.0	461.1		BS	-1515+3	+664-4	
	1655				+6.0	88° 12'	-52.0	-46.0			BS			
923	1320	1319	334° 52'	-2°	9.6	88° -	+46.0	+36.4	497.5			+1192	-564	1,194,348 350,091
924	990		" "		11.0	88° -	+34.5	+23.5	484.6			+895	-424	1,194,051 350,231
925	660		" "		2.9	89° -	+11.5	+8.6	469.7			+597	-292	1,193,753 350,373
926	330		" "		3.0	-		-3.0	458.1			+298	-141	1,193,454 350,514
927	0				5.4	-		-5.4	455.7		X	0	0	1,193,156 350,655
928	330		152° -	-2°	2.2	-		-2.2	458.9			-291	+156	1,192,865 350,811
929	660		" "		2.0	89° -	+11.5	+9.5	470.6			-582	+312	1,192,574 350,967
930	990		150° -	-2°	4.2	88° 30'	+25.9	+21.7	482.8			-856	+498	1,192,300 351,153
931	1320		" "		2.8	88° 30'	+34.5	+31.7	492.8			-1141	+664	1,192,015 351,319
W	1620	1619	150° 37'	-2°	4.0	88° 20'	+47.1	+43.1	504.2			-1408	+799	1,191,748 351,454 T-rd (El. 505)

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE						
2/8/80		G. Cotcamp		M. Stimac		6839		GHL		5		75						
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER				
Georgia		Beall Springs		Georgia		Glasscock								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			
										461.1								
932	1650	1649	150°59'	-2°	3.8	88°20'	+48.0	+44.2		505.3		-1439	+805	1,191,717	351,460			
933	1980	1979	"		1.5	88°20'	+57.6	+56.1		517.2		-1727	+966	1,191,429	351,621			
934	2310	2309	150°59'	-2°	15.0	88°-	+80.6	+65.6		526.7	TP	-2015+3	+1127-5	1,191,144	351,777			
934	2310				11.0	88°6'	+76.6	+65.6			TP							
	1650		326°102'-180°	-2°	+6.1	89°30'	-14.4	-8.3	518.4		BS	-1367+4	+923-5					
	1650				+10.9	89°20'	-19.2	-8.3			BS							
935	1320		325°25'	-2°	5.9	89°30'	+11.5	+5.6		524.0		+1084	-753	1,190,865	351,942	horiz. correct	y = +98'	x = +98'
936	990		324°56'	-2°	4.4	TH	+5.0	+0.6		519.0		+808	-572	1,190,589	352,123			
936	970		325°40'	-2°	4.5	TH	+4.9	+0.4		518.8		+799	-550	1,190,580	352,145	1,190,380+ 352,175	T-rod (sw) (El. 520)	
937	660		324°56'	-2°	2.7	-		-2.7		515.7		+539	-381	1,190,320	352,314			
938	330			-2°	4.3	-		-4.3		514.1		+269	-191	1,190,050	352,504			
939	0				5.4	-		-5.4		513.0	TP	0	0	1,189,781	352,695			
940	330		142°13'	-2°	2.0	-		-2.0		516.4		-260	+203	1,189,521	352,898			
941	660		139°13'	-2°	1.3	TH	+3.3	+2.0		520.4		-498	+432	1,189,283	353,127			
942	990		136°32'	-2°	0.5	TH	+5.0	+4.5		522.9	TP	-716-2	+683	1,189,063	353,378			
942	990				4.2	89°30'	+8.6	+4.4			TP							
	657		295°34.6'-180°	-2°	+6.1	TH	-3.3	+2.8			BS	-282-2	+594-2					Curve
	657				+6.7	89°40'	-3.8	+2.9	525.8		BS							
943	330		288°7'	-2°	2.0	TH	+1.7	-0.3		525.5		+102	-314	1,188,881	353,656			
944	0				5.4	-		-5.4		520.4	TP	0	0	1,188,779	353,970			

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
2/11/80		G. Cotcamp		M. Stimac		6839		GHL		5	76				
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
Georgia		Beall Springs		Georgia		Glascok					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
									525.8						
945	330		98°13'	-2°	13.4	-		-13.4		512.4		-46	+327	1,188,733	354,297
946	660		" "		12.5	BH	-3.3	-15.8		510.0		-92	+654	1,188,687	354,624
947	990		" "		4.2	-		-4.2		521.6		-138	+980	1,188,641	354,950
948	1320		99°16.7'	-2°	9.1	89°32'	+10.7	+1.6			TP	-208-2	+1303-2	1,188,569	355,271
948	1320				8.3	89°34'	+10.0	+1.7		527.5	TP				
	1320		287°13'-180°	-2°	+4.9	TH	-6.6	-1.7			BS	-386-2	+1262-2		
	1320				+6.1	89°40'	-7.7	-1.6	525.9		BS				
949	990		287°13'	-2°	4.4	TH	+5.0	+0.6		526.5		+290	-997	1,188,471	355,584
950	660		" "		3.2	-		-3.2		522.7		+193	-631	1,188,374	355,900
951	330		" "		6.9	-		-6.9		519.0		+97	-316	1,188,278	356,215
952	0			+0°	5.4	-		-5.4		520.5	X	0	0	1,188,181	356,531
953	330		122°26'	+0°	9.2	-		-9.2		516.7		-178	+279	1,188,004	356,810
954	660		127°17.3'	+0°	13.3	90°4'	-0.8	-14.1		511.8	TP	-400	+525-2	1,187,781	357,054
954	660				14.9	89°56'	+0.8	-14.1			TP				
	1320		323°57.4'-180°	+0°	+11.0	-		+11.0	522.8		BS	-1067	+777-2		
	1320				+4.4	BH	+6.6	+11.0			BS				
955	990		323°13'	-0°	14.9	-		-14.9		507.9		+793	-593	1,187,507	357,236
956	660		321°23'	+0°	14.4	-		-14.4		508.4		+514	-412	1,187,230	357,417
957	330		317°51'	+0°	6.7	-		-6.7		516.1		+245	-221	1,186,959	357,608
958	0				5.4	-		-5.4		517.4	X	0	0	1,186,714	357,829

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE								
2/11/80		G. Cotcamp		M. Stimac		6834		GHL		5	77								
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER								
Georgia		Beall Springs/		Georgia		Glascok					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				
									522.8										
959	330		135°41'	+0°	13.9	91°	-5.8	-19.7		503.1		-234	+231	1,186,479	358,060				
960	660		"	"	16.3	92°	-23.0	-33.3		489.5		-372	+441	1,186,242	358,290				
961	987	986	133°48'	+0°	11.5	92°	-34.4	-45.9		476.9		-682	+712	1,186,032	358,541				
962	1316	1315	130°53'	+0°	10.1	92°	-45.9	-56.0		466.8	TP	-861	+994-2	1,185,853	358,821			curve	
962	1316				14.7	91°48'	-41.3	-56.0			TP								
	1320		298°25.7'-180°	+0°	+2.6	TH	-6.6	-4.0	462.8		BS	-628	+1161-2						
	1320				+3.7	89°40'	-7.7	-4.0			BS								
963	990		298°25.7'	+0°	3.0	-	-	-3.0		459.8		+471	-871	1,185,696	359,109				
964	660		"	"	7.2	-	-	-7.2		455.6		+314	-580	1,185,589	359,400				
965	330		"	"	6.6	-	-	-6.6		456.2		+157	-290	1,185,382	359,690				↑ Beall Springs Quad.
966	0				5.4	-	-	-5.4		457.4	TP	0	0	1,185,225	359,980				Bostonville Quad.
967	330		118°58.8'	+0°	11.7	-	-	-11.7		451.1		-160	+289	1,185,065	360,269				↓
968	660		"	"	9.8	91°	-11.5	-21.3		441.5		-320	+577	1,184,905	360,557				
969	990		"	"	3.7	91°	-17.3	-21.0		441.8		-480	+866	1,184,745	360,846				
970	1324		118°58.8'	+0°	13.8	-	-	-13.8		449.0	TP	-641	+1158-2	1,184,584	361,136				T.R. opposite station
970	1324				7.2	BH	-6.6	-13.8			TP								
	660		316°26.3'-180°	+0°	+10.0	89°	-11.5	-1.5	447.5		BS	-478+2	+7455-2						
	660				+6.1	89°20'	-7.7	-1.6			BS								
971	330		316°26.3'	+0°	2.7	89°	+5.8	+3.1		450.6		+239	-227	1,184,347	361,362				
972	0				5.4	-	-	-5.4		442.1	TP	0	0	1,184,108	361,589				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
2/11/80		G. Cotcamp		M. Stimac		6839		GHL		5		78			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Georgia		Bastenville/Gibson		Georgia		Glascok								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
							✓		447.5	✓					
973	330		144°2'	+0°	14.6	92°	-11.5	-26.1		421.4		-267	+194	1,183,841	361,783
974	660	659	" "	"	11.8	93°30'	-40.2	-52.0		395.5		-534	+388	1,183,374	361,977
975	990	988	" "	"	10.7	94°	-68.9	-79.6		367.9		-801	+581	1,183,307	362,170
976	1320	1317	144°2'	+0°	6.2	94°	-91.9	-98.1		349.5	TP	-1066	+773-2	1,183,042	362,360
976	1320				14.7	93°38'	-83.5	-98.2			TP				
	1320		323°5'-180°	+0°	+124	90°30'	+11.5	+23.9	373.3		BS	-1055	+793-2		
	1320				+101	90°36'	+13.8	+23.9			BS				
✓	1280		323°35.3'	+0°	9.6	90°40'	-14.9	-24.5		348.8		+1030	-760	1,183,017	362,391
	990		323°5'	+0°	13.8	91°	-17.3	-31.1		342.2		+791	-595	1,182,778	362,556
✓	715		323°15.5'	+0°	15.0	91°30'	-18.7	-33.7		339.6		+573	-428	1,182,560	362,723
	660		323°5'	+0°	10.1	92°	-23.0	-33.1		340.2		+528	-396	1,182,515	362,755
979	330		" "	"	14.6	91°	-5.8	-20.4		352.9		+264	-198	1,182,251	362,953
980	0				54	-		-5.4		367.9	TP	0	0	1,181,987	363,151
981	330		125°11'	+2°	5.9	88°	+11.5	+5.6		378.9		-190	+270	1,181,797	363,421
982	657		116°23'	+2°	12.3	88°50'	+13.4	+1.1		374.4	TP	-294-7	+588-6	1,181,686	363,733
982	657				11.1	88°56'	+12.2	+1.1			TP				curve
	663		282°44.3'-180°	+2°	+2.2	89°	-11.6	-9.4			BS	-148-7	+646-7		
	663				+5.0	88°46'	-14.3	-9.3	365.1		BS				horiz corner
983	330		282°44.3'	+2°	3.6	89°	+5.8	+2.2		367.3		+74	-322	1,181,605	364,050
✓	377		286°4'	+2°	3.0	89°	+6.6	+3.6		368.7		+104	-362	1,181,635	364,010

1181635 364010 trail (south) (El. 370)

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 2/11/80	INSTRUMENT MAN G. Cotcamp	ROD MAN M. Stimac	PARTY NUMBER 6834	NOTES CHECKED BY GHL	LINE NO. 5	PAGE 79
AREA Georgia	TOPO MAP Gibson	STATE Georgia	COUNTY Glascock	RANGE	PPM	PARTY MANAGER Davis

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
									365.1							
984	0				54	-		-5.4		359.7	X	0	0	1,181,531	364,372	set-up opposite sta.
985	330		126°15'	+0°	13.0	-		-13.0		352.1		-195	+266	1,181,336	364,638	
986	660		129°13'	+0°	12.1	-		-12.1		353.0	TP	-417	+511	1,181,114	364,883	
986	660				9.8	OH	-3.3	-12.1			TP					
	1320		313°52'-180°	+0°	+19.8	90°26'	+10.0	+24.8	377.8		BS	-915	+952			
	1320				+19.1	90°28'	+10.7	+24.8			BS					
987	990		313°52'	+0°	11.7	90°30'	-8.6	-20.3		357.5		+686	-714	1,180,885	365,121	
988	660		" "		11.1	-		-11.1		366.7		+457	-476	1,180,656	365,359	
989	330		" "		3.2	-		-3.2		374.6		+229	-238	1,180,428	365,597	
990	0				54	-		-5.4		372.4	X	0	0	1,180,199	365,835	set-up opposite sta.
991	330		154°5'	+0°	4.0	-		-4.0		373.8		-297	+144	1,179,902	365,979	
992	660		156°55'	+0°	1.5	TH	+3.3	+1.8		379.6		-607	+259	1,179,592	366,094	
993	990		158°29.7'	+0°	2.0	89°30'	+8.6	+6.6		384.4		-921	+363	1,179,278	366,198	
994	1320		158°29.7'	+0°	8.0	89°30'	+11.5	+3.5			TP	-1228	+484	1,178,971	366,319	
994	1320				19.8	89°12'	+18.4	+3.6		381.4	TP					
	656		321°58'-180°	+0°	+2.8	88°40'	-15.3	-12.5	368.9		BS	-511	+412			curve
	656				+4.7	88°30'	-17.2	-12.5			BS					
995	330		312°49'	+0°	1.8	89°-	+5.8	+4.0		372.9		+224	-242	1,178,684	366,489	
996	0				54	-		-5.4		363.5	X	0	0	1,178,460	366,731	
997	330		123°16'	+0°	11.3	92°-	-11.5	-22.8		346.1		-181	+276	1,178,279	367,007	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
2/12/80		G. Cotcamp		M. Stimac		6834		GHL		5	80						
AREA		TOPO MAP		STATE		COUNTY		RANGE		PPM		PARTY MANAGER					
Georgia		Gibson		Georgia		Glascok						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		
									368.9								
998	660		123° 16'	+0°	13.0	92° -	-23.0	-36.0		332.9		-362	+552	1,178,098	367,283		
999	990	999	123° 16'	+0°	8.9	92° -	-34.5	-43.4		325.5	TP	-542	+827	1,177,918	367,558		
999	990				14.7	91° 40'	-28.8	-43.5			TP						
	990		303° 13.8' -180°	+0°	+14.6	-		+14.6	340.1		BS	-543	+828				
	990				+9.6	BH	+5.0	+14.6			BS						1,177,880 + 367,665
999	875		304° -	+0°	11.5	BH	-4.4	-15.9		324.2		+489	-725	1,177,864	367,661		Trail (south)
1000	660		303° 13.8'	+0°	12.7	BH	-3.3	-16.0		324.1		+362	-552	1,177,737	367,834		
1001	330				14.8	-		-14.8		325.3		+181	-276	1,177,586	368,110		
1002	0				5.4	-		-5.4		334.7	TP	0	0	1,177,875	368,386		Town of Gibson
1003	330		126° 21'	+0°	4.0	-		-4.0		336.1		-196	+266	1,177,179	368,652		
1003	625		130° 12.8'	+0°	7.1	89° 30'	+5.5	-1.6		338.5	TP	-904	+477	1,176,971	368,863		T-intersect.
1003	625				4.7	TH	+3.1	-1.6			TP						
	378		4° 57' +180°	+0°	+14.3	-		+14.3	352.8		BS	-377	-33				
	378				+12.4	BH	+1.9	+14.3			BS						
1004	330		3° 17'	+0°	13.2	-		-13.2		339.6		+329	+19	1,176,923	368,849		
1005	0				5.4	-		-5.4		347.4	TP	0	0	1,176,594	368,830		1,176,295 + 368,805
1005	320		180° 16'	+0°	4.3	TH	+1.6	-2.7		350.1		-320	-1	1,176,274	368,829		T-intersect.
1006	330		184° 25'	+0°	2.7	-		-2.7			TP	-329	-25 +3	1,176,265	368,808		
1006	330				4.3	TH	+1.7	-2.6		350.2	TP						

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE								
2/12/80		C. Cotcamp		M. Stimac		6834		GHL		5	81								
AREA		TOPO MAP	STATE	COUNTY	TWP	RANGE	PPM	PARTY MANAGER											
Georgia		Gilson	Georgia	Glascock				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				
1006										350.2									
	1980		273°29' - 180°	+0°	+0.9	74	-9.9	-9.0	341.2		BS	-120	+197613						
	1980				+2.5	89°40'	-11.5	-9.0			BS								
1007	1650		273°29'	+0°	3.1	74	+8.3	+5.2		346.4		+100	-1647	1,176,245	369,140				
1008	1320		" "	"	2.3	-		-2.3		338.9		+80	-1318	1,176,225	369,469				
1009	990		" "	"	5.8	-		-5.8		335.4		+60	-988	1,176,205	369,799				
1010	660		271°3'	+0°	6.8	-		-6.8		334.4		+12	-659	1,176,157	370,128				
1011	330		" "	"	7.7	-		-7.7		333.5		+6	-330	1,176,151	370,457				
1012	0				5.4	-		-5.4		335.8	π	0	0	1,176,145	370,787				
1013	330		82°15'	+0°	4.2	-		-4.2		337.0		+45	+327	1,176,190	371,114				
1014	660		78°36'	+0°	12.7	-		-12.7		328.5		+130	+647	1,176,275	371,434				
1015	988		75°30'	+0°	14.4	90°30'	-8.6	-23.0		318.2	TP	+247	+95743	1,176,392	371,747			curve	
1015	988				13.3	90°39'	-9.8	-23.1			TP								
	1980		246°41' - 180°	+0°	+7.1	74	-9.9	-2.8			BS	+784-3	+1818+3						
	1980				+3.1	89°50'	-5.8	-2.7	315.5		BS								
	1850		246°58'	+0°	1.4	-		-1.4		314.1		-724	-1703	1,176,449	371,865			1176470 x 371 940	
1016	1650		246°41'	+0°	5.2	-		-5.2		310.3		-653	-1515	1,176,520	372,053			7-cd	
1017	1320		" "	"	4.9	-		-4.9		310.6		-522	-1212	1,176,651	372,356				
1018	990		" "	"	4.0	-		-4.0		311.5		-392	-909	1,177,781	372,659				
1019	915		247°22'	+0°	3.9	-		-3.9		311.6		-352	-895	1,176,821	372,723			bridge	
1019	660		246°41'	+0°	4.5	-		-4.5		311.0		-261	-606	1,176,912	372,962				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
2/12/80		G. Cotcamp		M. Stimar		6834		GHL		5	82					
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER					
Georgia		Gibson		Georgia		Glascok					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
							✓		315.5	✓						
1020	330		246° 41'	+0°	5.0	-		-5.0		310.5		-131	-303	1,177,042	373,265	
1021	0				5.4	-		-5.4		310.1	X	0	0	1,177,173	373,568	
1022	330		66° 38'	+0°	4.5	-		-4.5		311.0		+131	+303	1,177,304	373,871	
1022	565		65° 21'	+0°	3.8	-		-3.8		311.7		+236	+514	1,177,409	374,082	bridge
1023	660		66° 38'	+0°	3.8	-		-3.8		311.7		+262	+606	1,177,435	374,174	
BM	800		69° 51'	+0°	3.0	-		-3.0		312.5		+340	+724	1,177,513	374,292	32 HSC 1971 U.S.G.S (E. 313)
1024	990		66° 38'	+0°	4.8	-		-4.8		310.7		+393	+909	1,177,566	374,477	
1025	1320		68° 11'	+0°	5.7	-		-5.7		309.8		+491	+1225	1,177,664	374,793	
1026	1655		70° 11.3'	+0°	6.5	TH	+8.3	+1.8		317.3	TP	+561.3	+1557.2	1,177,731	375,127	T.P. opposite station
1026	1655				8.0	89° 40'	+9.6	+1.6			TP					
	988	987	283° 50.6' - 180°	+0°	+14.0	92° 40'	+45.9	+59.9			BS	-236.3	+958.2			
	988				+12.9	92° 44'	+47.1	+60.0	377.3		BS					
1026	890	839	285° 30.5'	+0°	12.0	92° 50'	-41.5	-53.5		323.8		+224	-808	1,177,716	375,279	1,177,745 + 375,300 intersect.
1027	660	659	287° 27'	+0°	11.1	93° -	-34.5	-45.6		331.7		+198	-629	1,177,690	375,458	
1028	330		292° 4'	+0°	14.9	92° -	-11.5	-26.4		350.9		+124	-306	1,177,616	375,781	
1029	0				5.4	-		-5.4		371.9	X	0	0	1,177,492	376,087	
1030	330		122° 14.3'	+0°	3.2	86° 30'	+20.1	+16.9		394.2		-176	+279	1,177,316	376,366	
1031	660	659	" "	"	1.6	86° 30'	+40.2	+38.6		415.9		-352	+557	1,177,140	376,644	
1032	990	988	" "	"	8.0	86° -	+68.9	+60.9		438.2		-527	+836	1,177,965	376,923	

SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
2/12/80		G. Cotcamp		M. Stimar		6834		GHL		5	83				
AREA		TOPO MAP		STATE		COUNTY		RANGE		PPM		PARTY MANAGER			
Georgia		Gibson		Georgia		Glascok						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
									377.3						
1033	1320	1317	122° 14.3'	+0°	9.4	86°	+91.9	+82.5		459.8	TP	-703.6	+111.4	1,176,783	377,201
1033	1320				1.7	86° 20'	+84.2	+82.5			TP				
	660		310° 26' -180°	+0°	+10.9	-		+10.9	470.7		BS	-425.6	+50.5		
	660				+14.2	TH	-3.3	+10.9			BS				
1034	330		312° 30'	+0°	0.3	-		-0.3		470.4		+223	-243	1,176,575	377,463
1035	0				5.4	-		-5.4		465.3	TP	0	0	1,176,382	377,706
1036	330		151° 37'	+0°	13.0	91°	-5.8	-18.8		451.9		-290	+157	1,176,062	377,863
Y	612		152° 19'	+0°	7.8	92°	-21.3	-29.1		441.6		-542	+284	1,175,810	377,990
1037	662		153° 49.3'	-2°	8.6	92°	-23.1	-31.7		439.0	TP	-593.5	+294.3	1,175,764	377,997
1037	662				14.4	91° 30'	-17.3	-31.7			TP				
	660		351° 38' -180°	-2°	+4.8	89°	-11.5	-6.7	432.3		BS	-653.15	+94.3		
	660				+8.7	88° 40'	-15.4	-6.7			BS				
1038	330		355° 36'	-2°	3.4	-		-3.4		428.9		+329	-26	1,175,445	378,066
1039	0				5.4	-		-5.4		426.9	TP	0	0	1,175,116	378,092
1040	330		177° 52.6'	-2°	2.5	-		-2.5		429.8		-330	+13	1,174,786	378,105
1041	660		" "	"	2.1	89°	+11.5	+9.4		441.7		-659	+27	1,174,957	378,119
Y	968		177° 17'	-2°	1.8	88° 40'	+22.5	+20.7		453.0		-967	+49	1,174,149	378,141
1042	990		177° 52.6'	-2°	3.0	88° 40'	+23.0	+20.0		452.3		-989	+40	1,174,127	378,132
1043	1320		177° 52.6'	-2°	2.8	88° 40'	+30.7	+27.9		460.2	TP	-1319.5	+54.3	1,173,802	378,143
1043	1320				6.6	88° 30'	+34.5	+27.9			TP				

set up opposite sta.
horiz. correct. Y = -21
X = 416
1,175,810 + 377,990
Y-intersect.

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
2/13/80		G. Cotcamp		G. Litzinger		6834		GHL rlu		5	84			
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER			
Georgia		Gibson		Georgia		Glascock					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.	
1043										460.2				
	2310		358° 7' - 180°	-2°	+4.8	89° 39'	-12.5	-12.7			BS	-2308+5	+84-3	
	2310				+10.2	89° 26'	-22.8	-12.6	447.4		BS			
1044	1980		358° 7'	-2°	6.0	7H	+9.9	+3.9		461.5		+1979	-72	1,173,478 378,152
1045	1650		" "	"	8.8	-		-8.8		438.8		+1649	-60	1,173,148 378,164
1046	1320		" "	"	14.2	8H	-6.6	-20.8		426.8		+1319	-48	1,172,818 378,176
1047	990		" "	"	12.5	90° 40'	-11.5	-24.0		423.6		+989	-36	1,172,488 378,188
1048	660		" "	"	12.2	8H	-3.3	-15.5		432.1		+660	-24	1,172,159 378,200
IF	566		359° 17'	-2°	12.4	-		-12.4		435.2		+566	-9	1,172,065 378,215 T-rd (east)
1049	330		358° 7'	-2°	5.3	-		-5.3		442.3		+330	-12	1,171,829 378,212
1050	0				5.4	-		-5.4		442.2	X	0	0	1,171,999 378,224
1051	330		178° 24'	-2°	13.7	-		-13.7		433.9		-330	+12	1,171,169 378,236
1052	660		" "	"	10.2	91° -	-11.5	-21.7		425.9		-660	+25	1,170,839 378,249
1053	990		" "	"	7.9	91° -	-17.3	-25.2		422.4		-989	+37	1,170,510 378,261
1054	1320		" "	"	7.4	91° -	-23.0	-30.4		417.2		-1319	+50	1,170,180 378,274
1055	1650		" "	"	9.0	91° -	-28.8	-37.8		409.8		-1649	+62	1,169,850 378,286
1056	1980		" "	"	12.0	90° 40'	-23.0	-35.0		412.6		-1979	+75	1,169,520 378,299
1057	2310		178° 24'	-2°	14.8	90° 40'	-26.9	-41.7		405.9	TP	-2308+5	+87-3	1,169,196 378,308
1057	2310				8.1	90° 50'	-33.6	-41.7			TP			
	1320		358° 35' - 180°	-2°	+10.2	89° 20'	-15.4	-5.2	400.7		BS	-1319+5	+37-3	
	1320				+14.0	89° 10'	-19.2	-5.2			BS			

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
2/13/80		G. Cotcamp		G. Litzinger		6834		GHL		5		85			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Georgia		Gibson		Georgia		Glascok								Davis	
STATION NO.	SLOPE DISTANCE	PLOTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									400.7						
1058	990		358° 35'	-2°	13.8	89° 10'	+14.4	+0.6		401.3		+990	-28	1,168,872	378,314
1059	660		" "	"	7.3	89° -	+11.5	+4.2		404.9		+660	-19	1,168,542	378,323
1060	330		" "	"	3.0	89° -	+5.8	+2.8		403.5		+330	-9	1,168,212	378,333
1061	0		" "	"	5.4	-		-5.4		395.3	TP	0	0	1,167,882	378,342
1062	330		178° 28'	-2°	11.1	-		-11.1		389.6		-330	+10	1,167,552	378,352
1063	660		" "	"	14.2	-		-14.2		386.5		-660	+20	1,167,222	378,362
1064	990		" "	"	12.1	84	-5.0	-17.1		383.6		-990	+30	1,166,892	378,372
1065	1320		" "	"	10.3	90° 30'	-11.5	-21.8		378.9		-1319	+40	1,166,563	378,382
1066	1650		178° 28'	-2°	13.1	90° 40'	-19.2	-32.3		368.4	TP	-1649+5	+50-3	1,166,238	378,389
1066	1650		" "	"	10.2	90° 46'	-22.1	-32.3			TP				
	988	987	350° 53.2' - 180°	-9°	+0.5	88° -	-34.5	-34.0			BS	-973+5	+163-3		curve
	988		" "	"	+6.3	87° 40'	-40.2	-33.9	334.5		BS				
1067	660		347° 36'	-9°	2.9	88° -	+23.0	+20.1		354.6		+644	-196	1,165,914	378,903
1068	330		344° 9'	-9°	5.2	88° -	+11.5	+6.3		340.8		+317	-92	1,165,587	378,957
1069	0		" "	"	5.4	-		-5.4		329.1	TP	0	0	1,165,270	378,549
1070	330		154° 13'	-9°	7.9	-		-7.9		324.6		-105	+52	1,165,165	378,601
1070	330		158° -	-9°	12.1	-		-12.1		322.4		-305	+126	1,164,965	378,675
1071	660		154° 35'	-9°	9.1	91° -	-11.5	-20.6		313.9		-594	+287	1,164,676	378,836
1072	990		151° 9.2'	-9°	12.9	84	-5.0	-17.9			TP	-864+5	+484-4	1,164,911	379,029
1072	990		" "	"	9.2	90° 30'	-8.6	-17.8		316.7	TP				on bridge

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
2/13/80		G. Cotcamp		G. Litzinger		5834		GHL rld		5	86				
AREA		TOPO MAP		STATE		COUNTY		RANGE		PPM	PARTY MANAGER				
Georgia		Gibson		Georgia		Glascok/Jefferson					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
1072										316.7					
	1645	1643	312°57'180"	-4°	+12.2	93°-	+86.0	+98.2	98.3		BS	-111.5	+1210.4		curve
	1645				+14.3	92°56'	+84.1	+98.4	415.0		BS				
1073	1320	1318	311°36'	-4°	14.8	93°-	-69.0	-93.8		331.2		+868	-992	1,164,173	379,243
1074	990	989	" "	"	10.9	93°-	-51.7	-62.6		352.4		+651	-744	1,163,956	379,491
1075	660	659	" "	"	12.7	92°30'	-28.8	-41.5		373.5		+434	-496	1,163,739	379,739
1076	330		" "	"	14.3	91°-	-5.8	-20.1		394.9		+217	-248	1,163,522	379,987
1077	0				5.4	-		-5.4		409.6	T	0	0	1,163,305	380,235
1078	330		131°19.8'	-4°	7.6	-		-7.6		407.4		-216	-250	1,163,089	380,485
1079	660		" "	"	14.1	-		-14.1		400.9		-432	+499	1,162,873	380,734
1080	990		" "	"	8.5	-		-8.5		406.5		-647	+749	1,162,658	380,984
1081	1280		130°48'	-4°	2.4	TH	+6.4	+4.0		419.0		-830	+975	1,162,475	381,210
															1,162,490 + 381,200 4-way Intersection el. 421
1081	1320		131°19.8'	-4°	1.6	TH	+6.6	+5.0		420.0		-863	+999	1,162,442	381,234
1082	1650		" "	"	7.6	89°-	+28.8	+21.2		436.2		-1079	+1248	1,162,226	381,483
1083	1980		131°14.8'	-4°	0.9	89°-	+34.6	+33.7		448.7	TP	-1295.4	+1498.4	1,162,014	381,729
1083	1980				5.6	88°52'	+39.2	+33.6			TP				
	990		311°30.8'-180°	-4°	+13.3	-		+13.3			BS	-651.4	+746.4		
	990				+8.3	84	+5.0	+13.3	469.0		BS				T
1084	660		311°30.8'	-4°	11.9	-		-11.9		450.1		+434	-497	1,161,801	381,974
1085	330		" "	"	11.9	-		-11.9		450.1		+217	-249	1,161,584	382,222
1086	0				5.4	-		-5.4		456.6	T	0	0	1,161,367	382,471

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 2/13/80	INSTRUMENT MAN G. Cotcamp	ROD MAN G. Litzinger	PARTY NUMBER 6834	NOTES CHECKED BY GHL	LINE NO. 5	PAGE 87
AREA Georgia	TOPO MAP Gibson	STATE Georgia	COUNTY Jefferson	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				
									462.0										
1087	330		131°10'	-9°	6.8	-		-6.8		455.2		-215	+250	1,161,152	382,721			last sta. on pavement	
	495		129°28'	-9°	11.4	-		-11.4		450.6		-312	+384	1,161,055	382,855			1,161,055 + 382,855 1-intersect	
1088	652		138°27'	-9°	13.5	90°30'	-5.7	-19.2		442.8		-485	+936	1,160,892	382,907			horiz. correct. y = +58' x = -40'	
1089	982		" "	"	12.9	6H	-4.9	-17.8		444.2		-730	+656	1,160,637	383,127			↓	
1090	1312		" "	"	13.8	-		-13.8		448.2		-976	+877	1,160,391	383,348				
1091	1642		138°27'	-9°	4.9	-		-4.9		457.1	TP	-1221+3	+1098	1,160,149	383,569			curve	
1091	1642				13.1	TH	+8.2	-4.9			TP								
	1320		324°24' -180°	-9°	+6.5	89°44'	-6.1	+0.4	457.5		BS	-1068+3	+776						
	1320				+5.7	89°46'	-5.4	+0.3			BS								
1092	990		325°16'	-9°	4.3	-		-4.3		453.2		+810	-570	1,159,894	383,715				
1093	660		" "	"	12.7	-		-12.7		444.8		+540	-380	1,159,624	383,965				
1094	330		" "	"	10.3	-		-10.3		447.2		+270	-190	1,159,354	384,155				
1095	0				5.4	-		-5.4		452.1	TP	0	0	1,159,094	384,345				
1096	330		146°28'	-9°	2.1	-		-2.1		455.4		-274	+184	1,158,810	384,529				
1096	583		145°44.3'	-9°	1.3	89°-	+10.2	+8.9		466.4		-480	+332	1,158,604	384,677			1,158,600 + 384,670 4-Way Intersect	
1097	660		146°28'	-9°	2.9	89°-	+11.5	+8.6		466.1		-598	+368	1,158,536	384,713				
1098	990		" "	"	10.8	89°-	+17.3	+6.5		464.0		-821	+553	1,158,263	384,898				
1099	1320		146°28'	-9°	14.4	89°2'	+22.3	+7.9		465.4	TP	-1095+3	+737	1,157,992	385,082				
1099	1320				13.7	89°4'	+21.5	+7.8			TP								

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 2/14/80	INSTRUMENT MAN G. Cotcamp	ROD MAN G. Litzinger	PARTY NUMBER 6834	NOTES CHECKED BY GHL	LINE NO. 5	PAGE 88
AREA Georgia	TOPO MAP Sibson	STATE Georgia	COUNTY Jefferson	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			
1099										465.4								
	990		325°128' -180°	-4°	+10.8	-		+10.8			BS	-809+3	+570					
	990				+5.8	BH	+5.0	+10.8	476.2		BS							
TL TF	882		325°36'	-4°	9.2	-		-9.2		467.0		+724	-503	1157,910	385,149	1,157,905 + 385,135 4-Way Intersect.		
1100	660		325°128'	-4°	10.8	-		-10.8		465.4		+539	-380	1157,725	385,272			
1101	330		"	"	8.5	-		-8.5		467.7		+270	-190	1157,456	385,462			
1102	0				5.4	-		-5.4		470.8	X	0	0	1157,186	385,652			
1103	330		142°48.3'	-2°	7.2	-		-7.2		469.0		-262	+200	1156,924	385,852			
1104	660		"	"	14.3	-		-14.3		461.9		-524	+401	1156,662	386,053			
1105	990		142°48.3'	-2°	9.5	90°34'	-9.8	-19.3		456.9	TP	-787+3	+601	1156,402	386,253			
1105	990				4.9	90°50'	-14.4	-19.3			TP							
	1320		326°10.2' -180°	-2°	+3.7	89°-	-23.0	-19.3			BS	-1099+3	+739					
	1320				+6.1	88°54'	-25.3	-19.2	437.7		BS							
1106	990		326°10.2'	-2°	4.9	89°-	+17.3	+12.4		450.1		+820	-554	1156,131	386,438			
1107	660		"	"	5.9	89°-	+11.5	+5.6		443.3		+597	-369	1155,858	386,623			
1107	430		328° -	-2°	4.9	89°-	+7.5	+2.6		440.3		+364	-229	1155,625	386,763	1,155,685 + 386,735 T-rd (sw)		
1108	330		326°10.2'	-2°	1.5	TH	+1.7	+0.2		437.9		+273	-185	1155,584	386,807			
1109	0				5.4	-		-5.4		432.3	X	0	0	1155,311	386,992			
1110	330		149°11.2'	-2°	9.9	-		-9.9		427.8		-283	+170	1155,028	387,162			
1111	660		"	"	11.4	-		-11.4		426.3		-566	+390	1154,745	387,332			
1112	990		"	"	10.8	-		-10.8		426.8		-848	+510	1154,463	387,502			

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
2/14/80		G. Cotcamp		G. Litzinger		6834		GHL		5	89			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE	PPM	PARTY MANAGER		
Georgia		Gibson		Georgia		Jefferson						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.	
									437.7					
1113	1320		149° 11.2'	-2°	81	-		-8.1		429.6	TP	-1131+3	+680+2	1154,183 387,624
1113	1320				1.5	BH	-6.6	-8.1			TP			
	990		329° 48.8' - 180°	-2°	+4.9	-		+4.9			BS	-854+3	+501+2	
	990				+9.9	TH	-5.0	+4.9	434.5		BS			
1114	660		329° 48.8'	-2°	5.3	-		-5.3		429.2		+569	-334	1153,901 387,843
1115	330		"	"	8.4	-		-8.4		426.1		+285	-167	1153,617 388,010
1116	0				54	-		-5.4		429.1	π	0	0	1153,332 388,177
1117	330		151° 8.8'	-2°	8.6	-		-8.6		425.9		-288	+160	1153,044 388,337
1118	660		"	"	4.7	-		-4.7		429.8		-577	+321	1152,755 388,498
1119	990		"	"	6.3	-		-6.3		428.2		-865	+481	1152,467 388,658
1120	1320		151° 8.8'	-2°	7.1	-		-7.1		427.4	TP	-1154+3	+691+2	1152,181 388,820 last sta. on dirt road.
1120	1320				0.5	BH	-6.6	-7.1			TP			
	1310		359° 46.7' - 180°	-2°	+13.2	89° -	-22.9	-9.7			BS	-1310+3	+10+2	
	1310				+5.6	89° 20'	-15.2	-9.6	417.8		BS			
Y	1280		1° 16.2'	-2°	10.9	89° -	+22.3	+11.4		429.2		+1280	+24	1152,154 388,856 curve construction changes Y-intersect.
1121	985		359° 7'	-2°	6.7	89° -	+17.2	+10.5		428.3		+985	-19	1151,859 388,813 pavement
1122	655		355° 57'	-2°	0.4	-		-0.4		417.4		+653	-49	1151,527 388,783 ↓
1123	330		349° 12'	-2°	4.0	-		-4.0		413.8		+324	-63	1151,198 388,769
1124	0				54	-		-5.4		412.4	π	0	0	1150,874 388,832
1125	330		161° 39.1'	-2°	5.1	-		-5.1		412.7		-313	+105	1150,561 388,937

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 2/14/80	INSTRUMENT MAN G. Cotcamp	ROD MAN G. Litzinger	PARTY NUMBER 6834	NOTES CHECKED BY GHL	LINE NO. 5	PAGE 90
AREA Georgia	TOPO MAP Gibson	STATE Georgia	COUNTY Jefferson	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.	
									417.8					
1126	660		161° 39.1'	-2°	1.9	-		-1.9		415.9		-626	+210	1,150,248 389,042
1127	990		" "	"	6.3	89°	+17.3	+11.0		428.8		-939	+315	1,149,935 389,147
1128	1320		161° 39.1'	-2°	9.6	89°	+23.0	+13.4		431.2	TP	-1251+3	+420+1	1,149,626 389,253
1128	1320				5.8	89°10'	+19.2	+13.4			TP			
	1320		343° 0' -180°	-2°	+13.9	89°	-23.0	-9.1	422.1		BS	-1261+2	+390	
	1320				+6.3	89°20'	-15.4	-9.1			BS			
1129	990		343° -	-2°	2.2	TH	+5.0	+3.2		425.3		+946	-293	1,149,313 389,350
1130	660		" "	"	3.0	TH	+3.3	+0.3		422.4		+630	-195	1,148,997 389,448
1131	330		" "	"	0.5	TH	+1.7	+1.2		423.3		+315	-98	1,148,682 389,545
1132	0				5.4	-		-5.4		416.7	TP	0	0	1,148,367 389,643
1133	330		166° 29'	-2°	7.1	-		-7.1		415.0		-321	+78	1,148,046 389,721
1134	660		" "	"	6.9	-		-6.9		415.2		-641	+156	1,147,726 389,799
1135	990		" "	"	3.5	-		-3.5		418.6		-962	+235	1,147,405 389,878
1136	1320		165° 43'	-2°	3.6	-		-3.6		418.5	TP	-1278+2	+330	1,147,091 389,923
1136	1320				10.2	TH	+6.6	-3.6			TP			
	660		339° 19.2' -180°	-2°	+9.5	-		+9.5	428.0		BS	-617+3	+235	
	660				+12.8	TH	-3.3	+9.5			BS			
1137	330		339° 19.2'	-2°	9.0	-		-9.0		419.0		+308	-118	1,146,785 390,090
1137	300		341° 3'	-2°	8.7	-		-8.7		419.3		+283	-98	1,146,760 390,110 horiz correct. y=+90' x=+9'
1138	0				5.4	-		-5.4		422.6	TP	0	0	1,146,477 390,208

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 2/19/80	INSTRUMENT MAN G. Cotcamp	ROD MAN G. Litzinger	PARTY NUMBER 6834	NOTES CHECKED BY GHL	LINE NO. 5	PAGE 91
AREA Georgia	TOPO MAP Gibson	STATE Georgia	COUNTY Jefferson	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.	
									428.0					
1139	330		158° 52.7'	-2°	4.0	89°	+5.8	+1.8		429.8		-307	+120	1146,170 390,328
1140	660		" "	"	1.2	89°	+11.5	+10.3		438.3		-615	+240	1145,862 390,448
1141	990		158° 52.7'	-2°	9.4	89°	+17.3	+7.9		435.9	TP	-922+4	+360-4	1145,559 390,564
1141	990				8.3	89° 4'	+16.1	+7.8			TP			
	1320		337° 50.8' -180°	-2°	+4.9	89° 30'	-11.5	-6.6			BS	-1221+4	+502-4	
	1320				+1.1	89° 40'	7.7	-6.6	429.3		BS			
1142	990		337° 50.8'	-2°	3.7	TH	+5.0	+1.3		430.6		+916	-377	1145,258 390,685
1143	660		" "	"	1.1	-		-1.1		428.2		+610	-251	1144,952 390,811
1144	330		" "	"	2.2	-		-2.2		427.1		+305	-126	1144,642 390,936
1145	0				5.4	-		-5.4		423.9	TP	0	0	1144,342 391,062
1146	330		155° 21.6'	-2°	7.9	-		-7.9		421.4		-299	+139	1144,043 391,201
1147	660		" "	"	8.4	-		-8.4		420.9		-599	+277	1143,743 391,339
1148	990		" "	"	5.4	-		-5.4		423.9		-898	+416	1143,444 391,478
BM	1165		153° 3'	-2°	6.5	-		-6.5		422.8		-1037	+532	1143,305 391,594
TP	1225		154° 58.8'	-2°	6.0	-		-6.0		423.3		-1108	+522	1143,234 391,584
1149	1320		155° 21.6'	-2°	9.0	-		-9.0		420.3	TP	-1198+4	+555-4	1143,148 391,613
1149	1320				5.2	90° 10'	-3.8	-9.0			TP			
	660		337° 49' -180°	-2°	+5.8	89°	-11.5	-5.7			BS	-610+4	+251-4	
	660				+2.0	89° 20'	-7.7	-5.7	414.6		BS			
1150	330		337° 49'	-2°	6.0	-		-6.0		408.6		+305	-126	1142,847 391,734

1971
31 00P USGS el. 425.
1,143,215 + 391,575
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				
2/16/80		G. Cotcamp		G. Litzinger		6834		GHL		5	92				
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
Georgia		Gibson		Georgia		Jefferson					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
									414.6						
1151	0				5.4	-		-5.4		409.2	X	0	0	1142,542	391,860
1152	330		169°9'	-2°	3.5	89°-	+5.8	+2.3		416.9		-317	+91	1,142,225	391,951
1153	660		165°58'	-2°	4.8	89°-	+11.5	+6.7		421.3	TP	-640+4	+162-4	1,141,906	392,018
1153	660				6.7	88°50'	+13.4	+6.7			TP				
	1650		355°48.3' -180°	-2°	+6.6	89°36'	-11.5	-4.9			BS	-1695+4	+126-4		
	1650				+9.5	89°30'	-14.4	-4.9	416.4		BS				
1154	1320		356°15'	-2°	4.6	89°30'	+11.5	+6.9		423.3		+1317	-91	1,141,582	392,049
1155	990		" "	"	1.9	89°30'	+8.6	+6.7		423.1		+988	-68	1,141,253	392,072
1156	660		" "	"	1.0	TH	+3.3	+2.3		418.7		+658	-45	1,140,923	392,095
1157	330		" "	"	2.7	-		-2.7		413.7		+329	-23	1,140,594	392,117
1158	0				5.4	-		-5.4		411.0	X	0	0	1,140,265	392,140
1159	330		176°10'	-2°	3.7	-		-3.7		412.7		-329	+23	1,139,936	392,163
1160	660		" "	"	1.2	-		-1.2		415.2		-658	+46	1,139,607	392,186
1161	990		" "	"	12.1	89°-	+17.3	+5.2		421.6		-988	+70	1,139,277	392,210
1162	1320		176°39'	-2°	8.2	89°-	+23.0	+14.8		431.2		-1317	+82	1,138,948	392,222
1163	1650		177°30.4'	-2°	7.0	89°-	+28.8	+21.8			TP	-1698+4	+78-4	1,138,621	392,214
1163	1650				2.1	89°10'	+24.0	+21.9		438.3	TP				
	990		1°30' +180°	-2°	+18	89°40'	-5.8	-4.0			BS	-990+4	-22-4		
	990				+4.6	89°30'	-8.6	-4.0	434.3		BS				
1163	762		2° -	-2°	0.0	TH	+3.8	+3.8		438.1		+762	+24	1,138,397	392,212

1,138,400+ 392,220
Trail (west) el. 4321

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
2/16/80		G. Cotcamp		G. Litzinger		6839		GHL rlc		5	93			
AREA		TOPO MAP		STATE		COUNTY		RANGE	PPM	PARTY MANAGER				
Georgia		Gibson / GRANGE Quadrangle		Georgia		Jefferson				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.	
									484.3					
1164	660		0°44'	-2°	1.2	TH	+3.3	+2.1		436.4		+660	+6	4138,295 392,194
1165	330		359°48'	-2°	0.4	-	-	-0.4		433.9		+330	-2	4137,965 392,186
1166	0				5.4	-	-	-5.4		428.9	π	0	0	4137,635 392,188
1167	330		172°48'	-2°	15.0	BH	-1.7	-16.7		417.6		-327	+43	4137,308 392,231
1168	660		167°35'	-2°	12.1	91°30'	-17.3	-29.4		404.9		-649	+122	4136,986 392,310 ↑ Gibson Quad.
1169	987		166°6'	-2°	2.3	91°30'	-25.8	-28.1		406.2	TP	-957.4	+240.4	4136,682 392,424 curve Grange Quad.
1169	987				5.1	91°20'	-23.0	-28.1			TP			↓
	990		335°58.5'-180°	-2°	+12.8	TH	-5.0	+7.8			BS	-903.5	+406.4	
	990				+13.6	89°40'	-5.8	+7.8	414.0		BS			
1170	660		335°58.5'	-2°	5.5	TH	+3.3	-2.2		411.8		+602	-271	4136,386 392,555
1171	330		"	"	0.5	TH	+1.7	+1.2		415.2		+301	-135	4136,085 392,691
1172	0				5.4	-	-	-5.4		408.6	π	0	0	4135,784 392,826
1173	104		149° -	-2°	7.3	-	-	-7.3		406.7		-89	+54	4135,685 392,890 1,135,685 + 392,890 i-rd (s.w.) el. 407.3
1173	330		156°32.8'	-2°	11.2	-	-	-11.2		402.4		-302	+132	4135,482 392,958
1174	660		"	"	14.0	BH	-3.3	-17.3		396.7		-605	+265	4135,179 393,091
1175	990		156°32.8'	-2°	8.6	91° -	-17.3	-25.9		388.1	TP	-907.4	+397.5	4134,883 393,218
1175	990				14.4	90°40'	-11.5	-25.9			TP			
	1650		338°51.4'-180°	-2°	+9.7	89°30'	-14.4	-4.7			BS	-1537.6	+601.5	
	1650				+5.0	89°40'	-9.6	-4.6	383.5		BS			
1176	1320		338°51.4'	-2°	7.5	TH	+6.6	-0.9		382.6		+1229	-480	4134,581 393,334

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 2/16/80	INSTRUMENT MAN G. Coitcamp	ROD MAN G. Litzinger	PARTY NUMBER 6839	NOTES CHECKED BY GHL	LINE NO. 5	PAGE 94
AREA Georgia	TOPO MAP Grange	STATE Georgia	COUNTY Jefferson	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			
									383.5									
1177	990		338°51.9'	-2°	9.8	TH	+5.0	-4.8		378.7		+922	-360	1,134,274	393,454			
1178	660		" "	"	4.3	TH	+3.3	-1.0		382.5		+615	-240	1,133,967	393,574			
1179	330		" "	"	1.1	-		-1.1		382.4		+307	-120	1,133,659	393,694			
1180	0				59	-		-5.4		378.1	TP	0	0	1,133,352	393,814			
1181	330		159°32'	-2°	6.9	-		-6.9		376.6		-297	+143	1,133,085	393,787			
1182	660		152°42'	-2°	6.2	-		-6.2		377.3		-585	+305	1,132,767	394,119			
1183	990		151°14'	-2°	4.6	-		-4.6		378.9		-866	+479	1,132,486	394,293	horiz correct. Y=+53' X=-50'		
1184	1320		150°34'	-2°	6.3	TH	+6.6	+0.3		383.8		-1197	+653	1,132,205	394,467			
1184	1470		150°8'	-2°	5.7	TH	+7.4	+1.7		385.2		-1272	+736	1,132,080	394,550	1,132,080 + 394,550 T-rd (ne) el 385.7		
1185	1650		150°34'	-2°	8.0	TH	+8.3	+0.3		383.8	TP	-1439.2	+816.3	1,131,916	394,633			
1185	1650				4.6	89°50'	+4.8	+0.2			TP							
	1980		333°16.2'-180°	-2°	+7.9	TH	-9.9	-2.0			BS	-1765.2	+897.3					
	1980				+3.8	89°50'	-5.8	-2.0	381.8		BS							
1186	1650		333°16.2'	-2°	2.2	-		-2.2		-379.6		+1471	-797	1,131,620	394,786			
1187	1320		" "	"	5.4	-		-5.4		376.4		+1177	-598	1,131,326	394,935			
1188	990		" "	"	7.8	-		-7.8		374.0		+883	-448	1,131,032	395,085			
1189	660		" "	"	7.7	-		-7.7		374.1		+588	-299	1,130,737	395,234			
1190	330		" "	"	6.8	-		-6.8		375.0		+294	-199	1,130,443	395,384			
1191	0				5.4	-		-5.4		376.4	TP	0	0	1,130,149	395,533			
1192	330		153°11'	-2°	7.0	-		-7.0		374.8		-294	+150	1,129,855	395,683			

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
2/18/80		G. Cotcamp		G. Litzinger		6834		GHL rlu		5	96					
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER						
Georgia		Grange/Louisville		Georgia	Jefferson					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
									389.4							
1203	743		337°46.7'	-2.0	7.2	-	-7.2		382.2		X	+687	-283	1126.631	397.791	1126.615 + 397.790 T-rd (east) el. 382.
1204	660		336°58'	-2.0	9.1	-	-9.1		380.3		X	+606	-260	1126.550	397.814	Grange Quad.
1205	330		" "	"	7.2	-	-7.2		382.2		X	+303	-130	1126.247	397.944	Louisville Quad.
1206	0				5.4	-	-5.4		384.0		X	0	0	1125.944	398.074	↓
1207	330		156°4'	-2.0	12.2	-	-12.2		377.2		X	-301	+135	1125.643	398.209	
1208	660		" "	"	14.9	-	-14.9		374.5		X	-602	+270	1125.342	398.344	
1209	983		151°53'	-2.0	4.4	90°38'	-10.9	-15.3		374.1	TP	-865	+466+5	1125.079	398.545	curve
1209	983		" "	"	4.9	90°36'	-10.3	-15.2			TP					
	2640		311°18.6' -180°	-2.0	+3.6	89°36'	-18.4	-14.8	11.9		BS	-1736	+1989+5			
	2640		" "	"	+14.2	89°22'	-29.2	-15.0	359.2		BS					
1210	2310		311°9'	-2.0	0.2	TH	+11.6	+11.4		370.6		+1514	-1745	1124.857	398.794	
1211	1980		" "	"	4.3	TH	+9.9	+5.6		364.8		+1298	-1495	1124.641	399.044	
1212	1650		" "	"	7.9	TH	+8.3	+0.4		359.6		+1081	-1246	1124.424	399.293	
1213	1320		" "	"	3.3	-	-3.3		355.9		X	+865	-997	1124.208	399.542	
1214	990		" "	"	6.3	-	-6.3		352.9		X	+649	-748	1123.992	399.791	
1215	660		" "	"	8.4	-	-8.4		350.8		X	+433	-498	1123.776	400.041	
1216	330		" "	"	7.4	-	-7.4		351.8		X	+216	-249	1123.559	400.290	
1217	0		" "	"	5.4	-	-5.4		353.8		X	0	0	1123.343	400.539	
1218	330		121°35'	-2.0	3.2	-	-3.2		356.0		X	-172	+282	1123.171	400.821	
1219	660		117°45'	-2.0	3.3	-	-3.3		355.9		X	-305	+585	1123.038	401.124	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
2/18/80		S. Cotcamp		G. Litzinger		6834		GHL <i>relu</i>		5	97					
AREA		TOPO MAP		STATE		COUNTY		RANGE	PPM	PARTY MANAGER						
Georgia		Louisville		Georgia		Jefferson				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
									359.2							
1220	662		116° 37.5'	-2°	34	-		-3.4		355.8		-295	+593	1123,048	401,132	1,123,055 + 90,185 Trd (north)
1220	990		114° 45'	-2°	1.6	-		-1.6		357.6		-411	+901	1122,932	401,440	
1221	1315		113° 11'	-2°	3.9	TH	+6.6	+2.7		361.9		-513	+1211	1122,830	401,750	curve
1222	1642		112° 15'	-2°	2.3	TH	+8.2	+5.9		365.1		-616	+1522	1122,727	402,061	
1223	1968		111° 30'	-2°	5.3	TH	+9.8	+4.5		363.7	TP	-715.3	+1839.4	1122,625	402,377	
1223	1968				6.9	89° 40'	+11.5	+4.6			TP					
	990		293° 15.2' - 180°	-2°	+9.4	89°	-17.3	-7.9			BS	-388.2	+911.4			
	990				+0.8	89° 30'	-8.6	-7.8	355.9		BS					
1224	660		295° 21'	-2°	0.9	-		-0.9		355.0		+280	-597	1122,515	402,695	
1225	330		299° -	-2°	4.6	-		-4.6		351.3		+159	-289	1122,394	403,003	
1226	0				5.4	-		-5.4		350.5	X	0	0	1122,235	403,292	
1227	330		125° 50.5'	-2°	7.6	-		-7.6		348.3		-192	+268	1122,043	403,560	
1228	660		" "	"	11.8	-		-11.8		344.1		-385	+536	1121,950	403,828	
1229	990		" "	"	15.1	-		-15.1		340.8		-577	+805	1121,658	404,097	
1230	1320		125° 50.5'	-2°	8.9	BT	-6.6	-15.5		340.4	TP	-769.3	+1073.4	1121,463	404,369	
1230	1320				11.7	90° 10'	-3.8	-15.5			TP					
	1650		307° 42' - 180°	-2°	+6.1	TH	-8.3	-2.2	338.2		BS	-1004	+1309.4			
	1650				+15.0	89° 24'	-12.3	-2.3			BS					
1231	1320		307° 42'	-2°	11.0	TH	+6.6	-4.4		333.8		+804	-1047	1121,263	404,635	
1232	990		" "	"	10.4	TH	+5.0	-5.4		332.8		+603	-785	1121,062	404,892	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO 445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY			LINE NO.		PAGE		
2/18/80		G. Cotcamp		G. Litzinger		6839		GHL			5		98		
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Georgia		Louisville		Georgia		Jefferson								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
									339.2						
1233	660		308°32'	-2°	5.3	TH	3.3	-2.0		336.2		+409	-518	1120,868	405,164
1234	330		" "	-2°	1.6	TH	1.7	+0.1		338.3		+205	-259	1120,664	405,423
1235	0				54	-		-5.4		332.8	π	0	0	1120,459	405,682
1236	330		127°18'	-2°	13.7	91°	-5.8	-19.5		318.7		-199	+263	1120,260	405,945
1237	660	659	" "	"	6.8	93°	-34.5	-41.3		296.9		-398	+526	1120,061	406,208
1238	775	774	126°32.6'	-2°	8.7	93°	-40.5	-49.2		289.0		-459	+623	1120,000	406,305
1238	990	989	127°18'	-2°	12.8	93°	-51.7	-64.5		273.7		-597	+789	1119,862	406,471
1239	1320	1318	127°18'	-4°	9.3	93°	-69.0	-78.3	78.5	259.7	TP	-791.6	+1054	1119,674	406,736
1239	1320				14.3	92°48'	-64.4	-78.7			TP				
	988		310°41.5'-180°	-4°	+12.9	-		+12.9			BS	-639+6	+754		
	988				+8.0	BH	+4.9	+12.9	272.6		BS				curve
1240	882		311°44'	-4°	12.8	-		-12.8		259.8		+583	-662	1119,624	406,828
1240	660		311°6'	-4°	12.7	-		-12.7		259.9		+430	-500	1119,471	406,990
1241	330		306°41'	-4°	12.8	-		-12.8		259.8		+195	-266	1119,236	407,224
1241	96		309°40'	-4°	9.2	-		-9.2		263.4		+61	-74	1119,102	407,416
1242	0				54	-		-5.4		267.2	π	0	0	1119,041	407,490
1243	330		120°4.2'	-4°	4.7	88°	+11.5	+6.8		279.4		-163	+287	1118,878	407,777
1244	660		" "	"	10.0	88°	+23.0	+13.0		285.6		-327	+573	1118,714	408,063
1245	990		" "	"	7.8	88°30'	+25.9	+18.1		290.7		-490	+860	1118,551	408,350
1246	1320														

horiz. correct. y = -12', x = +46'

1,120,000 + 906,305
T-rd (southwest)

1,119,115 + 407,490
T-rd (n.e.)

bridge

curve

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE		
2/19/80		G. Cotcamp		G. Litzinger		6834		GHL		5		99		
AREA		TOPO MAP		STATE		COUNTY		RANGE		PPM		PARTY MANAGER		
Georgia		Louisville		Georgia		Jefferson						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.	
									272.6					
1246	1320		120° 4.2'	-4°	2.3	88° 30'	+34.5	+32.2		304.8	TP	-653.6	+1197	1118,394 408,637
1246	1320				5.3	88° 22'	+37.6	+32.3			TP			
	1650		300° 11.3' -180°	-4°	+14.4	91° 8'	+32.6	+47.0			BS	-820+6	+1932	
	1650				+10.6	91° 16'	+36.5	+47.1	357.9		BS			
1247	1320		300° 11.3'	-4°	11.9	91° -	-23.0	-34.9		317.0		+656	-1146	1118,236 408,923
1248	990		" "	"	9.0	91° -	-17.3	-26.3		325.6		+492	-859	1118,072 409,210
1249	660		" "	"	14.7	BH	-3.3	-18.0		333.9		+328	-573	1117,908 409,496
1250	330		" "	"	9.7	-	-	-9.7		342.2		+164	-286	1117,744 409,783
1251	0				5.4	-	-	-5.4		346.5	π	0	0	1117,580 410,069
1252	330		120° 7.3'	-6°	3.4	-	-	-3.4		348.5		-163	+287	1117,417 410,356
1253	660		" "	"	2.4	-	-	-2.4		349.5		-325	+574	1117,255 410,643
1254	990		" "	"	4.0	-	-	-4.0		347.9		-488	+861	1117,092 410,930
1255	1320		120° 7.3'	-6°	9.9	-	-	-9.9		342.0	TP	-650+6	+1199	1116,936 411,218
1255	1320				13.8	89° 50'	+3.8	-10.0			TP			
	2310		300° 37.8' -180°	-6°	+14.9	-	-	+14.9			BS	-1156+6	+2000	
	2310				+3.4	BH	+11.6	+15.0	357.0		BS			
1256	1980		300° 37.8'	-6°	7.6	BH	-9.9	-17.5		339.5		+991	-1714	1116,777 411,504
1256	1715		301° 3.8'	-6°	8.7	BH	-8.6	-17.3		339.7		+869	-1978	1116,655 411,740 T-rd(n.e)
1257	1650		300° 37.8'	-6°	9.3	BH	-8.3	-17.4		339.4		+826	-1429	1116,612 411,789
1258	1320		" "	"	11.0	BH	-6.6	17.6		339.4		+661	-1193	1116,447 412,075

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
2/19/80		G. Cotcamp		G. Litzinger		6834		GHL selco		5	101						
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
Georgia		Louisville		Georgia	Jefferson					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		
									347.3								
1274	1650		151°26.6'	-6°	131	84	-8.3	-21.4			TP	-1441+6	+804-4	1112,482	415,312		
1274	1650				14.6	90°14'	-6.7	-21.3		326.0	TP						
	1320		331°30'-180°	-6°	+12.9	89°-	-23.0	-10.1	315.9		BS	-1153+6	+642-4				
	1320				+9.0	89°0'	-19.2	-10.2			BS						
1275	990		331°30'	-6°	5.8	89°-	+17.3	+11.5		327.4		+865	-481	1,112,200	415,469		
TP	800		332°14.2'	-6°	4.9	89°-	+14.0	+9.1		325.0		+704	-380	1,112,039	415,570	driveway (s.w.)	
1276	660		331°30'	-6°	5.3	89°-	+11.5	+6.2		322.1		+577	-321	1,114,912	415,629	horiz. curved. Y=+60', X=+15'	
1277	330		"	"	1.4	TH	+1.7	+0.3		316.2		+288	-160	1,114,623	415,790		
1277	25		359°29'	-6°	4.5	-	-	-4.5		311.4		+25	0	1,111,360	415,950	1,111,360 + 415,950 trail (s.w.)	
1278	0				5.4	-	-	-5.4		310.5	TP	0	0	1,111,335	415,950		
1279	330		151°9.5'	-6°	14.9	84	-1.7	-16.6		299.3		-287	+162	1,111,048	416,112		
1280	660		"	"	5.6	92°-	-23.0	-28.6		287.3		-575	+324	1,110,760	416,279		
1281	990		"	"	7.8	92°-	-34.5	-42.3		273.6		-862	+487	1,110,473	416,437		
1282	1320		"	"	14.8	92°-	-46.0	-60.8		255.1		-1150	+649	1,110,185	416,599		
1283	1650	1649	151°9.5'	-5°	12.4	92°-	-57.6	-70.0			TP	-1437+3	+808	1,109,901	416,758		
1283	1650				5.6	92°14'	-64.3	-69.9		246.0	TP						
	980		310°26.2'-180°	-5°	+11.6	90°30'	+8.6	+20.2	266.2		BS	-629+3	+751			curve	
	980				+5.9	90°50'	+14.2	+20.1			BS						
1284	660		304°33'	-5°	11.7	91°-	-11.5	-23.2		243.0		+370	-547	1,109,645	416,962		
1285	330		302°8'	-5°	13.2	91°-	-5.8	-19.0		247.2		+173	-281	1,109,448	417,228		

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 2/20/80	INSTRUMENT MAN G. Cotcamp	ROD MAN G. Litzinger	PARTY NUMBER 6839	NOTES CHECKED BY GHL <i>rlw</i>	LINE NO. 5	PAGE 102
AREA Georgia	TOPO MAP Louisville	STATE Georgia	COUNTY Jefferson	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
									266.2						
1286	0				54	-		-5.4		260.8	X	0	0	1,109,275	417,509
1287	330		121°45.5'	-5°	7.7	88°	+11.5	+3.8		270.0		-171	+282	1,109,104	417,791
1288	660		"	"	10.1	88°	+23.0	+12.9		279.1		-342	+564	1,108,933	418,073
1289	990	989	"	"	6.0	88°	+34.5	+29.5		294.7		-513	+845	1,108,762	418,354
1290	1320	1319	121°45.5'	-5°	51	88°	+46.0	+40.9		307.1	TP	-684+3	+1128	1,108,594	418,637
1290	1320	1319			1.3	88°10'	+42.2	+40.9			TP				
	660		303°42.8'-180°	-5°	+12.4	91°	+11.5	+23.9	331.0		BS	-362+3	+552		
	660				+6.6	91°30'	+17.3	+23.9			BS				
1291	330		303°42.8'	-5°	12.0	-		-12.0		319.0		+181	-276	1,108,416	418,913
1292	0				54	-		-5.4		325.6	X	0	0	1,108,235	419,189
1293	330		135°30'	-5°	2.5	-		-2.5		328.5		-233	+233	1,108,002	419,422
1294	660		138°0.6'	-5°	3.7	-		-3.7		327.3	TP	-447+3	+446-3	1,107,751	419,632
1294	660				7.0	TH	+3.3	-3.7			TP				
	990		321°54.6'-180°	-5°	+8.0	88°40'	-23.0	-15.0	312.3		BS	-774+3	+618-3		
	990				+6.3	88°46'	-21.3	-15.0			BS				
1295	660		321°54.6'	-5°	2.7	88°40'	+15.4	+12.7		325.0		+516	-412	1,107,996	419,835
1295	380		323°31'	-5°	1.4	88°40'	+8.8	+7.4		319.7		+304	-229	1,107,284	420,018
1296	330		321°54.6'	-5°	3.0	88°30'	+8.6	+5.6		317.9		+258	-206	1,107,238	420,041
1297	0				54	-		-5.4		306.9	X	0	0	1,106,980	420,297
1298	330		141°24'	-5°	12.9	91°	-5.8	-18.7		293.6		-256	+208	1,106,724	420,455

1,107,300 + 420,035
T-rd(north)

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE							
2/20/80		G. Cotcamp		G. Litzinger		6834		GHL <i>rlw</i>		5	103							
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
Georgia		Louisville		Georgia		Jefferson					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			
									312.3									
1299	660		141°29'	-5°	9.5	92°	-23.0	-32.5		279.8		-512	+416	1,106,468	420,663			
1300	990	989	" "		12.0	92°	-34.5	-46.5		266.8		-768	+624	1,106,212	420,871			
1301	1320	1319	141°24'	-5°	10.1	92°	-46.0	-56.1		256.2	TP	-1024+3	+832-4	1,105,959	421,075			
1301	1320				14.0	91°50'	-42.2	-56.2			TP							
	1980		315°34.8'-180°	-5°	+14.1	91°4'	+36.8	+50.9			BS	-1402+3	+1398-4					
	1980				+10.6	91°10'	+40.3	+50.9	307.1		BS							
1302	1650	1649	315°34.8'	-5°	11.6	91°30'	-43.2	-54.8		252.3		+1168	-1164	1,105,728	421,305			
1303	1320		" "	"	11.2	91°30'	-34.5	-45.7		261.4		+935	-932	1,105,495	421,537			
1304	990		" "	"	13.0	91°30'	-25.9	-38.9		268.2		+701	-699	1,105,261	421,770			
1305	660		" "	"	11.7	91°30'	-17.3	-29.0		278.1		+467	-466	1,105,027	422,003			
1306	330		" "	"	14.6	-		-14.6		292.5		+234	-233	1,104,794	422,236			
1307	0		" "	"	5.4	-		-5.4		301.7	X	0	0	1,104,560	422,469			
1308	330		135°35.7'	-5°	3.2	89°	+5.8	+2.4		309.7		-234	+233	1,104,326	422,702			
1309	660		" "		9.9	88°	+23.0	+13.1		320.2		-467	+466	1,104,093	422,935			
1310	990	989	" "		11.2	88°	+34.5	+23.3		330.4		-700	+698	1,103,860	423,167			
1311	1320	1319	" "		13.2	88°	+46.0	+32.8		339.9		-934	+931	1,103,626	423,400			
1312	1650	1649	" "		14.4	88°	+57.6	+43.2		350.3		-1168	+1164	1,103,392	423,633			
1313	1980	1979	135°35.7'	-5°	10.3	88°20'	+57.6	+47.3		854.4	TP	-1402+3	+1397-4	1,103,161	423,862			
1313	1980				5.8	88°28'	53.0	+47.2			TP							

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
2/20/80		G. Catcamp		G. Litzinger		6834		GHL <i>ulu</i>		5	104						
AREA		TOPO MAP		STATE		COUNTY		RANGE		PARTY MANAGER							
Georgia		Louisville		Georgia		Jefferson				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		
1313										354.4							
	1650		317°54.2'180°	-5°	+0.2	-		+0.2	354.6		BS	-1215+3	+1117-4				
	1650				+8.5	TH	-8.3	+0.2			BS						
1314	1320		317°54.2'	-5°	5.4	-		-5.4		349.2		+972	-893	1,102,921	424,082		
1315	990		" "	"	11.9	-		-11.9		342.7		+729	-670	1,102,678	424,305		
1316	660		" "	"	14.1	BH	-3.3	-17.4		337.2		+486	-447	1,102,935	424,528		
1317	330		" "	"	14.8	-		-14.8		339.8		+243	-223	1,102,192	424,752		
1318	0				5.4	-		-5.4		349.2	TP	0	0	1,101,949	424,975	set-up opposite station	
1319	330		151°49'	-5°	2.0	-		-2.0		352.6		-290	+158	1,101,659	425,133		
1320	660		" "	"	2.1	TH	+3.3	+1.2		355.8		-579	+317	1,101,370	425,292		
1321	990		" "	"	5.4	TH	+5.0	-0.4		354.2		-869	+475	1,101,080	425,450		
1322	1320		" "	"	11.3	TH	+6.6	-4.7		349.9		-1158	+634	1,100,791	425,609		
1323	1650		151°19'	-5°	13.3	TH	+8.3	-5.0		349.6	TP	-1441+3	+805-4	1,100,511	425,776		
1323	1650				12.8	89°44'	+7.7	-5.1			TP						
	2640		331°47'-180°	-5°	+11.2	TH	-13.2	-2.0	347.6		BS	-2300+4	+1297-4				
	2646				+5.8	89°50'	-7.7	-1.9			BS						
1324	2310		331°4.7'	-5°	9.7	TH	+11.6	+1.9		349.5		+2012	-1135	1,100,227	425,934		
1325	1980		" "	"	8.7	TH	+9.9	+1.2		348.8		+1725	-973	1,099,940	426,096		
1325	1780		331°21.3'	-5°	8.2	TH	+8.9	+0.7		348.3		+1555	-867	1,099,770	426,202	Trail (s.w.)	
1326	1650		331°4.7'	-5°	0.2	-		-0.2		347.4		+1437	-811	1,099,652	426,258		
1327	1320		" "	"	4.7	-		-4.7		342.9		+1150	-648	1,099,365	426,421		

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 2/20/80	INSTRUMENT MAN G. Cotcamp	ROD MAN G. Litzinger	PARTY NUMBER 6834	NOTES CHECKED BY GHL xdw	LINE NO. 5	PAGE 105
AREA Georgia	TOPO MAP Louisville	STATE Georgia	COUNTY Jefferson	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.	
									347.6					
1328	990		331° 47'	-5°	7.1	-		-7.1		340.5		+962	-496	1,099,077 426,583
1329	660		" "	"	7.7	-		-7.7		339.9		+575	-324	1,098,790 426,745
1330	330		" "	"	6.8	-		-6.8		340.8		+297	-162	1,098,502 426,907 Horiz. con. y+37 y-30
1331	0				5.4	-		-5.4		342.2	T	0	0	1,098,215 427,064
1331	40		129° 35'	-5°	3.5	-		-3.5		344.1		-25	+31	1,098,190 427,100 1098,190 427,100 Y-intersect. (Route 17+1)
1332	330		178° 33'	-5°	10.9	-		-10.9		336.7		-330	+11	1,097,985 427,080 Town of Louisville
1333	660		" "	"	13.8	-		-13.8		333.8		-640	+22	1,097,555 427,091
1334	990		" "	"	14.1	-		-14.1		333.5		-989	+34	1,097,226 427,103
1335	1320		" "	"	9.9	-		-9.9		337.7		-1319	+45	1,096,896 427,114
1336	1650		" "	"	2.4	-		-2.4		345.2		-1649	+56	1,096,566 427,125
1337	1980		178° 47.4'	-5°	3.6	-		-3.6		343.9	TP	-1979.3	+59	1,096,233 427,128
1337	1960				13.7	TH	+9.9	-3.8			TP			
	1320		3° 27' +180°	-5°	+0.3	-		+0.3			BS	-1318.3	-68	
	1320				+14.1	89° 24'	-13.8	+0.3	344.2		BS			
1338	990		3° 27'	-5°	3.2	-		-3.2		341.0		+989	+51	1,095,901 427,111
1339	660		" "	"	3.9	-		-3.9		340.3		+659	+34	1,095,571 427,094
1340	330		" "	"	4.8	-		-4.8		339.4		+330	+17	1,095,242 427,077
1341	0				5.4	-		-5.4		338.8	T	0	0	1,094,912 427,060
1342	330		183° 43'	-5°	5.9	-		-5.9		338.3		-329	-19	1,094,583 427,041
1343	660		" "	"	6.8	-		-6.8		337.4		-659	-37	1,094,253 427,023

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 2/21/80	INSTRUMENT MAN G Cotcamp	ROD MAN G Litzinger	PARTY NUMBER 6834	NOTES CHECKED BY GHL	LINE NO. 5	PAGE 106
AREA Georgia	TOPO MAP Louisville/Louisville	STATE South Georgia	COUNTY Jefferson	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.		Y	X
									344.2						Down of Louisville	
1344	990		183°43'	-5°	8.3	-		-8.3		335.9	TP	-988.3	-56	1,093,921	427,004	↓
1344	990				13.2	TH	5.0	-8.2			TP					
	328		22°51' + 180°	-5°	+5.1	-		+5.1	341.0		BS	-303.3	-125			curve
	328				+6.8	TH	1.6	+5.2			BS					
1345	0				5.4	-		-5.4		335.6	TP	0	0	1,093,415	426,879	
1346	330		226°52'	-5°	5.9	-		-5.9		335.1		-228	-239	1,093,387	426,640	
1347	660		226°52'	-5°	7.7	-		-7.7		333.3	TP	-455.3	-478	1,093,157	426,401	
1347	660				4.4	84	-3.3	-7.7			TP					
	1320		321°27.8' - 180°	-5°	+9.6	88°50'	-26.9	-17.3			BS	-1025.3	+831			
	1320				+13.5	88°40'	-30.7	-17.2	316.1		BS					
1348	990		321°0.8'	-5°	12.8	88°40'	+30.2	+17.4		333.5		+100.3	-827	1,093,132	426,405	1,093,120 + 426,435 + Way Intersect
1348	990		320°31'	-5°	7.6	88°40'	+23.0	+15.4		331.5		+75.9	-636	1,092,988	426,596	(1000.09 + 17)
1349	660		" "	"	3.2	88°40'	+15.4	+12.2		328.3		+50.6	-424	1,092,635	426,808	
1350	330		" "	"	3.9	88°40'	+7.7	+3.8		319.9		+25.3	-212	1,092,352	427,020	
1351	0				5.4	-		-5.4		310.7	TP	0	0	1,092,729	427,232	
1352	330		139°54'	-3°	14.2	91°	-5.8	-20.0		296.1		-25.1	+214	1,091,878	427,446	
1353	660		" "	"	10.4	92°	-23.0	-33.4		282.7		-50.3	+428	1,091,626	427,660	
1354	990	989	" "	"	6.8	92°	-34.5	-41.3		274.8		-75.3	+691	1,091,376	427,873	↑ Louisville Quad
1355	1320	1319	139°54'	-3°	12.2	91°30'	-34.5	-46.7		269.4	TP	-1004.3	+855.2	1,091,122	428,085	Louisville South
1355	1320				4.6	71°50'	-42.2	-46.8			TP					↓

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 2/21/80	INSTRUMENT MAN G. Cotcamp	ROD MAN G. Litzinger	PARTY NUMBER 6834	NOTES CHECKED BY GHL rlu	LINE NO. 5	PAGE 107
AREA Georgia	TOPO MAP Louisville South	STATE Georgia	COUNTY Jefferson	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.	
1355										269.4				
	986		314° 4.4' - 180°	-3°	+3.0	91° -	+17.2	+20.2	289.6		BS	-682-3	+712-2	
	986				+14.4	90° 20'	+5.7	+20.1		BS				
1356	660		310° 32'	-3°	14.9	84	-3.3	-18.2		276.4		+426	-504	1090,863 428,291
1357	330		307° -	-3°	11.5	-		-11.5		278.1		+197	-265	1090,634 428,530
1358	0				5.7	-		-5.4		284.2	π	0	0	1090,437 428,795
1359	330		118° 35'	-3°	0.8	-		-0.8		288.8		-156	+291	1,090,281 429,086
1360	660		116° -	-3°	8.0	89° -	+11.5	+3.5		293.1		-286	+595	1,090,151 429,390
1361	990		114° 18'	-3°	7.4	89° -	+17.3	+9.9		299.5		-403	+904	1,090,034 429,699
1362	1320		114° 18'	-3°	5.2	89° -	+23.0	+17.8	307.4		TP	-537-3	+1206-2	1,089,872 429,999
1362	1320				1.4	89° 10'	+19.2	+17.8		TP				
	990		295° 45' - 180°	-3°	+13.8	90° 50'	+14.4	+28.2	335.6		BS	-425	+899-2	
	990				+12.0	90° 56'	+16.1	+28.1		BS				
TL TF	848		296° 52.5'	-3°	13.7	90° 41'	-10.9	-24.6		311.0		+379	-758	1,089,851 430,133
1363	660		295° 45'	-3°	14.2	90° 30'	-5.8	-20.0		315.6		+284	-596	1,089,756 430,295
1364	330		" "	"	11.7	-		-11.7		323.9		+142	-298	1,089,614 430,593
1365	0				5.4	-		-5.4		330.2	π	0	0	1,089,472 430,991
1366	330		121° 38'	-3°	5.9	-		-5.9		329.7		-172	+282	1,089,300 431,173
1367	660		" "	"	8.6	-		-8.6		327.0		-343	+564	1,089,129 431,455
1368	990		121° 38'	-3°	10.2	-		-10.2	325.4		TP	-515	+846-1	1,088,957 431,736
1368	990				5.2	84	-5.0	-10.2		TP				

1089,840 + 430,125
4-Way Intersect el. 312.
(Rt. 1 bypass)

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
2/21/80		G. Cotcamp		G. Litzinger		6834		GHL <i>rcw</i>		5		108			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Georgia		Louisville South		Georgia		Jefferson								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
1368										325.4					
	1320		299° 0.2' - 180°	-3°	+4.6	TH	-6.6	-2.0			BS	-634	+1158		
	1320				+5.7	89° 40'	-7.7	-2.0	323.4		BS				
1369	990		297° 53'	-3°	3.7	TH	+5.0	+1.3		324.7		+458	-977	1,088,781	432,017
1370	660		296° -	-3°	3.0	TH	+3.3	+0.3		323.7		+286	-595	1,088,609	432,299
1371	330		" "	"	0.8	-		-0.8		322.6		+143	-297	1,088,466	432,597
1372	0				5.4	-		-5.4		318.0	X	0	0	1,088,323	432,894
1373	330		111° 45.7'	-3°	10.4	-		-10.4		313.0		-121	+307	1,088,202	433,201
	390		110° 19'	-3°	10.8	-		-10.8		312.4		-133	+366	1,088,190	433,260
1374	660		111° 45.7'	-3°	12.1	-		-12.1		311.3		-241	+614	1,088,082	433,508
1375	990		" "	"	12.4	-		-12.4		311.0		-362	+921	1,087,961	433,815
1376	1320		111° 45.7'	-3°	9.7	BH	-6.6	-16.3			TP	-483.2	+1228	1,087,842	434,122
1376	1320				10.1	90° 16'	-6.1	-16.2		307.2	TP				
	1320	1319	288° 4.7' - 180°	-3°	+11.7	87° 10'	-65.2	-53.5			BS	-403.2	+1256		
	1320				+5.6	87° 26'	-59.1	-53.5	253.7		BS				
1377	990	989	286° 16'	-3°	9.2	87° -	+57.7	+42.5		296.2		+272	-951	1,087,713	434,427
1378	660	659	289° 45'	-3°	10.2	87° -	+34.5	+24.3		278.0		+164	-638	1,087,605	434,740
1379	330		" "	"	6.3	88° -	+11.5	+5.2		258.9		+82	-320	1,087,523	435,058
1380	0				5.4	-		-5.4		248.3	X	0	0	1,087,441	435,378
1381	330		101° 57'	-3°	5.0	-		-5.0		248.7		-67	+323	1,087,324	435,701
1382	660		" "	"	5.7	89° -	+11.5	+5.8		259.5		-133	+646	1,087,308	436,024

↑
Louisville South Blvd.

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 2/21/80	INSTRUMENT MAN G. Cotcamp	ROD MAN G. Litzinger	PARTY NUMBER 6837	NOTES CHECKED BY GHL	LINE NO. 5	PAGE 109
AREA Georgia	TOPO MAP Old Town	STATE Georgia	COUNTY Jefferson	TWP	RANGE	PPM rlw
				PARTY MANAGER Davis		

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
									253.7							
1383	990	989	101° 57'	-3°	12.7	88° -	+34.5	+21.8		275.5		-200	+969	1,087,241	436,347	Old Town Quad.
1384	1320	1319	" "	"	8.9	88° -	+46.0	+37.1		290.8		-266	+1292	1,087,175	436,670	
1385	1650	1649	101° 57'	-3°	10.1	88° -	+57.6	+47.5		301.2	TP	-393.2	+1615	1,087,110	436,993	
1385	1650				5.3	88° 10'	+52.8	+47.5			TP					
	1320		282° 12.8' -180°	-3°	+5.6	-		+5.6	306.8		BS	-272	+1292			
	1320				+12.2	TH	6.6	+5.6			BS					
1386	990		282° 12.8'	-3°	1.7	-		-1.7		305.1		+204	-969	1,087,042	437,316	
1387	660		" "	"	4.5	-		-4.5		302.3		+136	-646	1,086,974	437,639	
1388	330		" "	"	6.2	-		-6.2		300.6		+68	-323	1,086,906	437,962	
1389	0				5.4	-		-5.4		301.4	X	0	0	1,086,838	438,285	
1390	330		102° 38'	-3°	7.5	-		-7.5		299.3		-70	+322	1,086,768	438,607	
1390	490		100° 55'	-3°	8.3	-		-8.3		298.5		-90	+482	1,086,748	438,767	1,086,735 + 438,785 T-rod (north) el. 299
1391	660		102° 38'	-3°	9.4	-		-9.4		297.4		-141	+645	1,086,697	438,930	
1392	990		104° 10'	-3°	13.8	-		-13.8		293.0		-237	+961	1,086,601	439,246	
1393	1320		105° 53.7'	-3°	14.7	BH	-6.6	-21.8		285.5	TP	-355.2	+1271.2	1,086,485	439,554	T.P. opposite Sta.
1393	1320				13.7	90° 20'	-7.7	-21.4			TP					
	990		305° 1.2' -180°	-3°	+8.7	87° 30'	-43.1	-34.4			BS	-564.2	+819.2			
	990				+3.0	87° 50'	-37.4	-34.4	252.1		BS					
1394	660		306° 9'	-3°	1.8	88° -	+23.0	+21.2		272.3		+387	-535	1,086,310	439,831	
1395	330		" "	"	4.4	88° -	+11.5	+7.1		258.2		+193	-267	1,086,116	440,099	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 2/24/80		INSTRUMENT MAN G. Cotcamp		ROD MAN G. Litzinger		PARTY NUMBER 6834		NOTES CHECKED BY GHL rlu		LINE NO. 5		PAGE 1/10			
AREA Georgia		TOPO MAP Old Town		STATE Georgia		COUNTY Jefferson		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
									251.1						
1396	0				5.4	-		-5.4		245.7	X	0	0	1085,923	440,366
1397	330		130°32'	-3°	14.6	-		-14.6		236.5		-213	+252	1085,710	440,618
1398	660		" "	"	9.6	91°	11.5	-21.1		230.0		-426	+504	1085,497	440,870
1399	990		" "	"	8.4	91°	-12.3	-25.7		225.4		-639	+756	1085,284	441,122
1400	1320		131°51'	-3°	3.7	91°	23.0	-26.7		224.4	TP	-862+2	+999-3	1085,063	441,362
1400	1320				14.5	90°32'	12.3	-26.8			TP				
	990		317°56.8'-180°	-3°	+6.0	-		+6.0			BS	-732+2	+667-2		
	990				+11.0	7H	-5.0	+6.0	230.4		BS				
1401	660		319°1'	-3°	5.9	-		-5.9		224.5		+496	-435	1084,829	441,592
≡	450		321°26'	-3°	6.0	-		-6.0		224.4		+350	-282	1084,683	441,745
1402	330		319°1'	-3°	5.8	-		-5.8		224.6		+298	-218	1084,581	441,809
1403	0				5.4	-		-5.4		225.0	X	0	0	1084,333	442,027
≡	100		135°16'	-3°	4.6	-		-4.6		225.8		-71	+71	1084,262	442,098
1404	330		82°26'	-5°	1.6	TH	+1.7	+0.1		230.5		+46	+327	1084,379	442,354
1405	657		78°58.4'	-5°	3.9	88°	+22.9	+19.0		249.4		+131	+644	1084,464	442,671
1406	987	986	78°58.4'	-5°	5.6	87°40'	+40.2	+34.6		265.0	TP	+197+3	+966-3	1084,533	442,990
1406	987				0.5	87°58'	+35.0	+34.5			TP				
	1317		266°19'-180°	-5°	+13.4	90°46'	+17.6	+31.0			BS	+96+3	+1313-3		curve
	1317				+14.9	90°42'	+16.1	+31.0	296.0		BS				
1407	990		269°8'	-5°	14.1	8H	-5.0	-14.1		276.9		-24	-990	1084,608	443,310

1,084,250 + 442,100
T-intersect el. 226.

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 2/24/80	INSTRUMENT MAN G. Cotcamp	ROD MAN G. Litzinger	PARTY NUMBER 6834	NOTES CHECKED BY GHL rlu	LINE NO. 5	PAGE 111
AREA Georgia	TOPO MAP Old Town	STATE Georgia	COUNTY Jefferson	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.	
									296.0					
1408	660		270°53'	-5°	11.4	-		-11.4		284.6		+4	-660	1,084,636 443,640
1409	330		" "	"	5.6	-		-5.6		290.4		+2	-330	1,084,634 443,970
1410	0				5.4	-		-5.4		290.6	TP	0	0	1,084,632 444,300
1411	330		99°32'	-7°	7.2	-		-7.2		288.8		-22	+329	1,084,610 444,629
1412	660		" "	"	11.2	-		-11.2		284.8		-44	+659	1,084,588 444,959
1413	990		97°27.3'	-7°	10.8	BH	-5.0	-15.8		280.2	TP	-116+3	+983-2	1,084,519 445,281
1413	990				10.1	90°20'	-5.8	-15.9			TP			
	1650		296°18.2'-180°	-7°	+5.0	JH	-8.3	-3.3			BS	-713+3	+1488-2	
	1650				+5.4	89°42'	-8.6	-3.2	277.0		BS			
1414	1320		298°12'	-7°	3.7	-		-3.7		273.3		+610	-1171	1,084,419 445,596
1415	990		" "	"	9.1	-		-9.1		267.9		+457	-878	1,084,266 445,889
1416	660		" "	"	14.6	-		-14.6		262.4		+305	-585	1,084,114 446,182
1417	330		" "	"	12.7	-		-12.7		264.3		+152	-293	1,083,961 446,474
1418	0				5.9	-		-5.4		271.6	TP	0	0	1,083,809 446,767
X	290		123°56.6'	-7°	0.4	JH	+1.5	+1.1		278.1		-159	+243	1,083,650 447,010
1419	330		127°27'	-7°	4.7	89°-	+5.8	+1.1		278.1		-197	+264	1,083,612 447,031
1420	660		129°15'	-7°	13.3	89°-	+11.5	-1.8		275.2		-411	+516	1,083,398 447,283
1421	990		130°24.8'	-5°	14.1	89°39'	+7.5	-6.6		270.4	TP	-635+2	+759-4	1,083,176 447,522
1421	990				12.4	89°40'	5.8	-6.6			TP			

horiz. correct. y=+26'
x=-19'

1,083,650 + 447,010
4-way Intersect. el. 279

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 2/18/80	INSTRUMENT MAN G. Litzinger	ROD MAN C. Cotcamp	PARTY NUMBER 6834	NOTES CHECKED BY GHL elw	LINE NO. 5	PAGE 112
AREA Georgia	TOPO MAP Old Town	STATE Georgia	COUNTY Jefferson	TWP	RANGE	PPM
				PARTY MANAGER Davis		

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
A21	1320		313° 10' -190	-5°	+11.0	—		+11.0	281.4		BS	-895.2	+971.4			
	1320				+4.3	84	+6.6	+10.9			BS					
1422	990		313° 10'	-5°	13.3	—		-13.3		268.1		+671	-728	1,082,954	447,761	
1423	660		" "	"	14.6	—		-14.6		266.8		+447	-485	1,082,730	448,004	
1424	330		" "	"	8.8	—		-8.1		273.3		+224	-243	1,082,507	448,246	
1425	0				5.4			-5.4		276.0	TP	0	0	1,082,283	448,489	
1426	330		132° 15.2'	-5°	4.6	89° 10'	+4.8	+0.2		281.6		-220	+246	1,082,063	448,735	
1427	660		" "	"	1.4	89° 10'	+9.6	+8.2		289.6		-440	+492	1,081,843	448,981	last sta. on pavement
1428	990		" "	"	2.6	89°	+17.3	+14.7		296.1		-659	+739	1,081,624	449,228	dirt road
1429	1320		133° 54.3'	-5°	3.2	88° 50'	+26.9	+23.7		305.1	TP	-907.2	+959.3	1,081,378	449,445	↓
1429	1320				7.1	88° 40'	+30.7	+23.6			TP					
	1320		321° 0.7' -140	-5°	+11.2	89° 20'	-15.4	-4.2			BS	-1019.2	+839.3			
	1320				+7.4	89° 30'	-11.5	-4.1	301.0		BS					
1430	990		321° 0.7	-5°	7.8	89° 30'	+8.6	+0.8		301.8		+764	-630	1,081,125	449,651	
1431	660		321° 0.7	-5°	6.8	89° 30'	+5.8	-1.0		300.0		+509	-420	1,080,820	449,861	
1432	330		" "	"	6.6	89° 30'	+2.9	-3.7		297.3	✓	+255	-210	1,080,616	450,071	
1433	130		323° 51.5'	-5°	2.7	89° 30'	+1.1	-1.6		299.4		+104	-78	1,080,465	450,203	1,080,475 + 450,185 T RD (NE) @ 300.
1433	0				5.4	—		-5.4		295.6	TP	0	0	1,080,361	450,281	
1434	330		137° 21.6'	-5°	10.6	—		-10.6		290.4		-241	+226	1,080,120	450,507	
1435	660		" "	"	14.2	9		-14.2		286.8		-482	+451	1,079,879	450,732	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 2/25/80	INSTRUMENT MAN G. Litzinger	ROD MAN G. Cotcamp	PARTY NUMBER 6834	NOTES CHECKED BY GHL	LINE NO. 5	PAGE 113
AREA Georgia	TOPO MAP Old Town	STATE Georgia	COUNTY Jefferson	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
									301.0						
1436	990		134° 27'	-5°	13.6	BH	-5.0	-18.6		282.4		-687	+713	1079,674	450,994
1437	1318		133° 7.2'	-5°	14.6	BH	-6.6	-21.2			TP	-892+2	+970-3	1,079,471	451,248
1437	7318				12.7	90° 20'	-7.7	-20.4		280.6	TP				
	1320		299° 40.6' -180°	-5°	+13.0	90° 20'	+7.7	+20.7			BS	-644+2	+1153-3		
	1320				+9.2	90° 30'	+11.5	+20.7	301.3		BS				
1438	990		297° 53'	-5°	13.1	BH	-5.0	-18.1		283.2		+455	-879	1,079,284	451,519
1439	660		" "	"	11.8	BH	-3.3	-15.1		286.2		+304	-586	1,079,133	451,812
1440	330		" "	"	10.1	—		-10.1		291.2		+152	-293	1,078,981	452,105
1441	0				5.4	—		-5.4		295.9	TP	0	0	1,078,829	452,398
1442	330		128° 20.5'	-5°	11.4	—		-11.4		289.9		-202	+261	1,078,627	452,659
1443	660		132° 46.5'	-5°	13.7	BH	-3.3	-17.0		284.3		-444	+488	1,078,385	452,886
1444	985		134° 6.5'	-5°	3.3	91°	-17.2	-20.5		280.8	TP	-679	+713-3	1,078,150	453,108
1444	985				0.5	91° 10'	-20.1	-20.6			TP				
	1319		317° 14.9' -180°	-5°	+1.2	TH	-6.6	-5.4			BS	-961	+904-3		
	1319				+2.4	89° 40'	-7.7	-5.3	275.5		BS				
1445	990		317° 14.9	-5°	1.6	89° 40'	+5.8	+4.2		279.7		+721	-678	1,077,910	453,331
1446	660		"	"	2.1	89° 40'	+3.8	+1.7		277.2		+481	-452	1,077,670	453,557
1447	330		"	"	1.2	—		-1.2		274.3		+240	-226	1,077,429	453,783
TP	277		320 15.4	-5°	1.5	—		-1.5		274.0		+211	-179	1,077,400	453,830
1448	0				5.4	—		-5.4		270.1	TP	0	0	1,077,189	454,009

horiz. coord. Y = +12
X = -26
1,077,400 + 453,830
T-ROD (S.W.) el. el. 275.

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
2/25/80		G. LITZINGER		G. Cotcamp		6834		GHL <i>slw</i>		5	114			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE	PPM	PARTY MANAGER		
Georgia		Old Town		Georgia		Jefferson						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.	
									275.5					
1449	330		138° 0.6'	-5°	10.8	—		-10.8		264.7		-243	+223	1,076,946 454,232
1450	660		" "	"	13.9	BH	-3.3	-17.2		258.3		-487	+446	1,076,702 454,455
1451	990		" "	"	14.3	90° 30'	-8.6	-22.9		252.6		-730	+669	1,076,459 454,678
1452	1320		138° 0.6'	-5°	6.4	91° —	-2.30	-29.4		246.1	TP	-973+1	+892-2	1,076,217 454,899
1452	1320				2.5	91° 10'	-26.9	-29.4			TP			
	658		327° 38' -190	-5°	+7.8	89° —	-11.5	-3.7	242.4		BS	-553+1	+357-2	curve
	654				+5.8	89° 10'	9.6	-3.8			BS			
1453	330		331° 14.1'	-5°	1.5	—		-1.5		240.9		+288	-161	1,075,953 455,093
1454	0				37.4	—		-5.4		237.0	TP	0	0	1,075,665 455,254
	163		144° 11.3'	-5°	1.9	—		-1.9		240.5		-131	+97	1,075,539 455,351 BRIDGE
1455	318		135° 2.5'	-5°	1.7	—		-1.7		240.7	TP	-223+1	+227-2	1,075,443 455,479 T.P. opposite station
1455	318			-5°	3.3	TH	+1.6	-1.7			TP			
	662		295° 6.6' -180	-5°	+15.0	92° —	+23.1	+38.1			BS	-276+1	+602-2	
	662				+13.1	92° 10'	+25.0	+38.1	278.9		BS			
1456	330		298° 13.5'	-5°	14.6	91° 30'	-8.6	-23.2		255.6		+154	-292	1,075,322 455,787
1457	0				5.4	—		-5.4		273.4	TP	0	0	1,075,168 456,079
1458	330		125° 10.7'	-5°	3.0	89° —	+5.8	+2.8		281.6		-188	+271	1,074,980 456,350
1459	660		125° 25.7'	-5°	8.0	89° —	+11.5	+3.5		282.3	TP	-378+1	+591-2	1,074,791 456,618
1459	660				6.1	89° 10'	+9.6	+3.5			TP			

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 2/25/80	INSTRUMENT MAN G. Cotcamp	ROD MAN G. Litzinger	PARTY NUMBER 6834	NOTES CHECKED BY GHL	LINE NO. 5	PAGE 115
AREA Georgia	TOPO MAP Old Town	STATE Georgia	COUNTY JEFFERSON	TWP	RANGE	PPM
				PARTY MANAGER Douis		

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.	
1459	990		299° 36.2' -190	-7°	76.5	89° -	-17.3	-10.8			BS	-478+1	+867-2	
	990				73.7	89° 10	14.4	-10.7	271.6		BS			
1460	660		299° 26.3'	-7°	9.2	89° -	+11.5	+2.3		273.9		+317	-579	1,074,631 456,909
1461	330		"	"	4.7	—		-4.7		266.9		+159	-289	1,074,473 457,194
1462	0				5.4	—		-5.4		266.2	TP	0	0	1,074,314 457,983
1463	330		98° 52.1'	-7°	2.5	89° -	+5.8	+3.3		274.9		-47	+327	1,074,267 457,810
1464	660		" "	-7°	1.8	89° -	+11.5	+9.7		281.3		-94	+653	1,074,220 458,136
1465	990		98° 28.4'	-7°	4.0	89° -	+17.3	+13.3		284.9	TP	-134+1	+981-2	1,074,181 458,462
1465	990				7.0	89° 50'	+20.2	+13.2			TP			
	985		280° 58.8' -180°	-7°	+8.4	—		+8.4	293.3		BS	-176+1	+969-2	
	985				+18.3	TH	-4.9	+8.4			BS			Curve
1466	660		282° 29'	-7°	7.6	—		-7.6		285.7		+135	-646	1,074,141 458,783
1467	330		287° 26'	-7°	8.5	—		-8.5		284.8		+95	-316	1,074,101 459,113
1468	0				5.4	—		-5.4		287.9	TP	0	0	1,074,006 459,429
1469	330		129° 4'	-7°	0.6	TH	+1.7	+1.1		294.4		-205	+259	1,073,801 459,688
1470	660		" "	"	4.7	89° -	+11.5	+6.8		300.1		-410	+517	1,073,596 459,996
1471	990		127° 51.2'	-7°	9.7	89° -	+17.3	+7.6		300.9	TP	-598	+789-2	1,073,408 460,216
1471	990				5.1	89° 16'	+12.7	+7.6			TP			
	1650		303° 45' -180°	-7°	+6.9	TH	-8.3	-1.4	-1.3		BS	-900	+1383-2	
	1650				+5.6	89° 46'	-6.7	-1.1	299.6		BS			

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 2/26/80	INSTRUMENT MAN G. Cotcamp	ROD MAN G. Litzinger	PARTY NUMBER 6834	NOTES CHECKED BY GHL	LINE NO. 5	PAGE 116
AREA Georgia	TOPO MAP Old Town	STATE Georgia	COUNTY Jefferson	TWP	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 X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									299.6					
1472	1320		303° 45'	-7°	2.2	-		-2.2		297.4		+720	-1106	1,073,228 460,991
1473	990		" "	"	5.0	-		-5.0		294.6		+540	-830	1,073,048 460,767
1474	660		" "	"	6.0	-		-6.0		293.6		+360	-553	1,072,868 461,044
1475	330		" "	"	4.5	-		-4.5		295.1		+180	-277	1,072,688 461,320
1476	0				5.4	-		-5.4		294.2	π	0	0	1,072,508 461,597
IF	128		122° 23'	-7°	6.5	-		-6.5		293.1		-67	+109	1,072,441 461,706 1,072,435 + 461,700 4-Way Intersect. el. 294
1477	330		123° 58.8'	-7°	11.7	-		-11.7		287.9		-181	+276	1,072,327 461,873
1478	660		" "	"	12.4	BH	-3.3	-15.7		283.9		-362	+552	1,072,146 462,149
1479	990		" "	"	13.3	BH	-5.0	-19.3		281.3		-543	+828	1,071,965 462,425
1480	1320		" "	"	10.4	BH	-6.6	-17.0		282.6		-724	+1104	1,071,784 462,701
1481	1650		123° 58.8'	-7°	9.8	BH	-8.3	-18.1		281.5	TP	-905	+1379.2	1,071,603 462,974
1481	1650				3.7	90° 30'	-14.4	-18.1			TP			
	990		303° 35' - 180°	-7°	+11.8	-		+11.8	293.3		BS	-538	+831.2	
	990				+6.8	BH	+5.0	+11.8			BS			
1482	660		303° 35'	-7°	10.2	-		-10.2		293.1		+358	-554	1,071,423 463,249
1483	330		" "	"	6.8	-		-6.8		296.5		+179	-277	1,071,244 463,526
1484	0				5.4	-		-5.4		297.9	π	0	0	1,071,065 463,803
1485	330		132° 2.5'	-7°	7.5	-		-7.5		295.8		-218	+248	1,070,847 464,051
1486	660		" "	"	13.2	-		-13.2		280.1		-436	+496	1,070,629 464,299
1487	990		" "	"	10.6	BH	-5.0	-15.6		277.7		-654	+743	1,070,411 464,546

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
2/26/80		G. Cotcamp		G. Litzinger		6834		GHL <i>relv</i>		5	117			
AREA		TOPO MAP		STATE		COUNTY		RANGE	PPM	PARTY MANAGER				
Georgia		Old Town		Georgia		Jefferson/Burke				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.	
									293.3					
1488	1320		132° 2.5'	-7°	13.1	-		-13.1		280.2	TP	-872	+991-2	1,070,193 464,792
1488	1320				6.5	84	-6.6	-13.1			TP			
	990		314° 12.3' -180°	-7°	+9.2	89° 30'	+8.6	-4.4			BS	-682	+718-1	
	990				+7.1	89° 20'	-11.5	-4.4	275.8		BS			
1489	660		314° 12.3'	-7°	0.7	TH	+3.3	+2.6		279.4		+454	-479	1,069,965 465,030
	620		315° 32.4'	-7°	1.1	TH	+3.1	+2.0		277.8		+437	-440	1,069,948 465,069 T-rd (sw) 279
1490	330		314° 12.3'	-7°	3.4	-		-3.4		272.4		+227	-239	1,069,738 465,270
1491	0				5.4	-		-5.4		270.4	TP	0	0	1,069,511 465,509
1492	330		122° 52'	-7°	11.2	-		-11.2		264.6		-176	+279	1,069,335 465,788
1493	660		119° 6'	-7°	8.2	-		-8.2		267.6		-314	+581	1,069,197 466,090
1494	990		117° 52.3'	-7°	12.0	-		-12.0		263.8	TP	-452	+881	1,069,059 466,390
1494	990				7.0	84	5.0	-12.0			TP			
	1320		297° 30.2' -180°	-7°	+4.5	TH	-6.6	-2.1			BS	-595	+1178	
	1320				+5.6	89° 40'	-7.7	-2.1	261.7		BS			
1495	990		297° 30.2'	-7°	2.2	-		-2.2		259.5		+446	-884	1,068,910 466,684
1496	660		" "	"	5.1	-		-5.1		256.6		+298	-589	1,068,762 466,979
1497	330		" "	"	6.9	-		-6.9		254.8		+149	-295	1,068,613 467,273
1498	0				5.4	-		-5.4		256.3	TP	0	0	1,068,969 467,568 Jefferson Co.
1499	330		126° 14'	-7°	3.1	-		-3.1		258.6		-192	+269	1,068,272 467,837 Burke Co.
1500	660		" "	"	3.7	89° -	+11.5	+7.8		269.5		-384	+537	1,068,080 468,105 ↓

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
2/26/80		G. Catcamp		G. Litzinger		6834		GHL ulw		5	118					
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE	PPM	PARTY MANAGER				
Georgia		Old Town		Georgia		Burke						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
									261.7						horiz. correct. $y=+8'$ $y=-27'$	
1501	890		125° 59'	-7°	1.1	89°	+15.5	+14.4		276.1		-514	+727	1,067,950	468,295	1,067,950 + 468,295 Trail (sw) el. 277.
1501	990		126° 14'	-7°	0.3	89°	+17.3	+17.0	216.9	278.6	TP	-575+2	+806-2	1,067,891	468,372	
	1980		313° 1' 180°	-7°	6.2	88° 40'	+23.0	+16.8			TP					
	1980				+10.0	BH	+9.9	+19.9			BS	-1333+2	+1469-2			
	1980				+14.2	90° 10'	+5.8	+20.0	298.6		BS					
1502	1650		313° 1'	-7°	11.4	BH	-8.3	-19.7		278.9		+1111	-1220	1,067,671	468,614	
1503	1320		" "	"	12.7	BH	-6.6	-19.3		279.3		+889	-976	1,067,449	468,858	
1504	990		" "	"	7.8	91°	-17.3	-25.1		273.5		+666	-732	1,067,226	469,102	
1505	660		" "	"	9.4	91°	-11.5	-20.9		277.7		+444	-488	1,067,004	469,346	
1506	330		" "	"	14.2	-		-14.2		284.4		+222	-244	1,066,782	469,590	
1507	0				5.4	-		-5.4		293.2	X	0	0	1,066,560	469,834	
1508	330		131° 25.8'	-7°	10.4	-		-10.4		288.2		-215	+250	1,066,345	470,084	
1509	660		" "	"	12.9	90° 30'	-5.8	-18.7		279.9		-431	+500	1,066,129	470,334	
1510	990		" "	"	9.9	90° 50'	-14.4	-24.3		274.3		-646	+750	1,065,914	470,584	
1511	1320		" "	"	8.6	90° 50'	-14.2	-27.8		270.8		-861	+1000	1,065,699	470,834	
1512	1650		131° 25.8'	-7°	2.5	90° 50'	-24.0	-26.5			TP	-1077+2	+1250-2	1,065,485	471,082	
1512	1650				12.0	90° 30'	-14.4	-26.4		272.2	TP					
	660		308° 55.4' 180°	-7°	+7.9	91°	+11.5	+19.4			BS	-408+2	+519-1			
	660				+5.2	91° 14'	+14.2	+19.4	291.6		BS					
1513	330		308° 55.4'	-7°	9.8	-		-9.8		281.8		+204	-259	1,065,283	471,341	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
2/26/80		G. Cotcamp		G. Litzinger		6834		GHL		5	119					
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE	PPM	PARTY MANAGER				
Georgia		Old Town/Scotts		Georgia		Burke						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 -	EAST + WEST -		Y	X
									291.6							
1514	0				5.9	-		-5.4		296.2	T	0	0	1,065,079	471,600	
	305		128° 38'	-7°	2.7	-		-2.7		298.9		-187	+291	1,064,892	471,841	T-rd (sw)
1515	330		129° 36.5'	-7°	2.6	-		-2.6		289.0		-207	+257	1,064,872	471,857	
1516	660		" "	"	2.5	TH	+3.3	+0.8		292.4		-415	+514	1,064,664	472,114	
1517	990		129° 36.5'	-7°	0.3	TH	+5.0	+4.7		296.3	T	-622+2	+770-3	1,064,459	472,367	
1517	990				3.9	89° 30'	+8.6	+4.7			TP					
	1320		309° 8.1' -180	-7°	+9.8	90° 30'	+11.5	+21.3			BS	-821+2	+1034-3			
	1320				+13.6	90° 20'	+7.7	+21.3	317.4		BS					
1518	990		309° 8.1'	-7°	13.7	-		-13.7		303.9		+615	-775	1,064,255	472,623	
1519	660		" "	"	8.8	-		-8.8		308.8		+410	-517	1,064,050	472,881	
1520	330		" "	"	7.9	-		-7.9		309.7		+205	-258	1,063,845	473,140	
1521	0				5.4	-		-5.4		312.2	T	0	0	1,063,640	473,398	
1522	330		129° 51.7'	-7°	2.4	-		-2.4		315.2		-208	+256	1,063,432	473,654	
1523	660		" "	"	2.0	TH	+3.3	+0.8		318.4		-417	+512	1,063,223	473,910	↑
1524	990		" "	"	2.0	TH	+5.0	+3.0		320.6		-625	+768	1,063,015	474,166	Old Town Quad.
1525	1320		129° 29.8'	-7°	11.0	89° 30'	+11.5	+0.5		318.1	TP	-827+2	+1029-3	1,062,815	474,424	Scotts Corner Quad.
1525	1320				7.3	89° 40'	+7.7	+0.4			TP					↓
	1319		288° 5.1' -140°	-7°	+4.3	89° 40'	-7.7	-3.4			BS	-394+2	+1259-3			curve
	1319				+0.6	89° 30'	-3.8	-3.2	314.8		BS					
1526	990		286° 8.7'	-7°	0.4	-		-0.4		314.4		+264	-954	1,062,687	474,726	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 2/27/80	INSTRUMENT MAN G. Litzinger	ROD MAN C. Colcamp	PARTY NUMBER 6834	NOTES CHECKED BY GHL	LINE NO. 5	PAGE 120
AREA Georgia	TOPO MAP Scotts Corner	STATE Georgia	COUNTY Burke	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
									314.8						
1527	660		286° 8.7'	-7°	2.9	—		-2.9		311.9		+176	-636	1,062,599	475,094
1528	330		" "	"	3.8	—		-3.8		311.0		+88	-318	1,062,511	475,362
1529	0				5.4	—		-5.4		309.4	TP	0	0	1,062,423	475,680
1530	330		103° 9.2'	-7°	8.3	—		-8.3		306.5		-71	+322	1,062,352	476,002
1531	660		" "	"	12.8	—		-12.8		302.0		-142	+644	1,062,281	476,324
1532	990		" "	"	14.3	90° 10'	-2.9	-17.2		297.6		-213	+967	1,062,210	476,647
1533	1320		" "	"	14.5	90° 10'	-3.8	-18.3		296.5		-285	+1289	1,062,138	476,969
7F	1342		103° 26.4'	-7°	11.0	BH	-6.7	-17.7		297.1		-296	+1309	1,062,127	476,989
1534	1650		103° 21.3'	-7°	14.0	90° 10'	-4.8	-18.8		296.0	TP	-361+2	+1610-3	1,062,064	477,287
1534	1650				9.3	90° 20'	-9.6	-18.9			TP				
	2970		279° 51' -180°	-7°	14.4	89° 50'	-8.6	+5.8	301.8		BS	-472+2	+2932-3		
	2970				5.7	—		+5.7			BS				
1535	2640		279° 51'	-7°	7.4	—		-7.4		294.4		+420	-2606	1,062,014	477,610
1536	2310		" "	"	9.0	—		-9.0		292.8		+367	-2281	1,061,961	477,935
1537	1980		" "	"	8.8	—		-8.8		293.0		+315	-1955	1,061,909	478,261
1539	1650		" "	"	7.7	—		-7.7		294.1		+262	-1629	1,061,856	478,587
1539	1320		" "	"	6.6	—		-6.6		295.2		+210	-1303	1,061,804	478,913
1540	990		" "	"	4.9	—		-4.9		296.9		+157	-977	1,061,751	479,239
1541	660		" "	"	2.4	—		-2.4		299.4		+105	-652	1,061,699	479,564
1542	330		" "	"	1.6	—		-1.6		300.2		+52	-326	1,061,646	479,890

1,062,125+477,005
4-WAY (el. 298)

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 2/27/80	INSTRUMENT MAN Scotts Corner	ROD MAN	PARTY NUMBER 6834	NOTES CHECKED BY GHL rlv	LINE NO. 5	PAGE 121
AREA Georgia	TOPO MAP	STATE Georgia	COUNTY Burke	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		REMARKS
														Y	X	
									301.8							
1543	0				5.4	-		-5.4		296.4	TP	0	0	1,061,594	480,216	
1544	330		112° 4'	-7°	9.5	-		-9.5		292.3		-120	+307	1,061,474	480,523	
1545	660		" "	"	10.8	-		-10.8		291.0		-240	+615	1,061,354	480,831	
1546	990		" "	"	11.9	-		-11.9		289.9		-361	+922	1,061,233	481,138	
1547	1320		" "	"	12.7	-		-12.7		289.1		-481	+1229	1,061,113	481,445	
1548	1650		" "	"	14.0	-		-14.0		287.8		-601	+1537	1,060,993	481,753	
1549	1980		" "	"	14.3	-		-14.3		287.5		-721	+1844	1,060,873	482,060	
1550	2310		" "	"	3.9	84	11.6	-15.5		286.3		-842	+2151	1,060,752	482,367	
1551	2640		" "	"	3.0	84	13.2	-16.2		285.6		-962	+2459	1,060,632	482,675	
1552	2970		112° 4'	-7°	8.2	90° 10'	8.6	-16.8		285.0	TP	-1082.4	+2766.3	1,060,513	482,979	
1552	2970				9.9	90° 08'	6.9	-16.8			TP					
	980		304° 39.7' - 180	-7°	+2.4	89° 40'	-2.9	-0.5			BS	-547	+813.3			CURVE
	980				+5.2	89° 40'	-5.7	-0.5	284.5		BS					
1553	1052		309° 14.5'	-7°	5.2	89° 46'	+6.1	+0.9		285.4		+581	-877	1,060,547	482,912	1,060,565 + 482,970 Trail (north) el. 286.
1553	660		308° 52.3'	-7°	1.1	-		-1.1		283.4		+408	-519	1,060,374	483,270	
1554	330		313° 39.7'	-7°	2.8	-		-2.8		281.7		+225	-241	1,060,191	483,548	
1555	0				5.4	-		-5.4		279.1	TP	0	0	1,059,966	483,789	
1556	330		134° 1'	-7°	5.9	-		-5.9		278.6		-226	+240	1,059,740	484,029	
1557	660		131° 43'	-7°	6.7	-		-6.7		277.8		-433	+498	1,059,533	484,287	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 2/27/80	INSTRUMENT MAN G. Hitzinger	ROD MAN G. Cotcamp	PARTY NUMBER 6834	NOTES CHECKED BY GHL <i>new</i>	LINE NO. 5	PAGE 122
AREA Georgia	TOPO MAP Scotts Corner	STATE Georgia	COUNTY Burke	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 TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS
												LAT.	DEP.	Y	X	
									284.5							
1558	985		127°30.4'	-7°	2.9	—		-7.9		276.6	TP	-590	+789.4	1,059,376	484,574	
1558	985				3.0	BH	-4.9	-7.9			TP					
	1320		295°30.0'-180°	-7°	+3.7	—		+3.7	280.3		BS	-554	+1198.4			
	1320				+10.2	TH	-6.6	+3.6			BS					
1559	990		295°30.2'	-7°	4.9	—		-4.9		275.4		+415	-899	1,059,237	484,869	
1560	660		"	"	5.6	—		-5.6		274.7		+277	-599	1,059,099	485,169	
1561	390		"	"	5.1	—		-5.1		275.2		+138	-300	1,058,960	485,468	horiz. correct. Y=+21' X=-38'
1562	0				5.4	—		-5.4		274.9	TP	0	0	1,058,822	485,768	
1562	85		105°56.5'	-7°	5.2	—		-5.2		275.1		-22	+82	1,058,800	485,850	1,058,800 + 485,850 offset 4-way @ 1.275
1563	330		115°14.5'	-7°	6.3	—		-6.3		274.0		-137	+300	1,058,685	486,068	
1564	660		"	"	7.7	—		-7.7		272.6		-274	+600	1,058,548	486,368	
1565	990		"	"	8.8	—		-8.8		271.5		-411	+901	1,058,411	486,669	
1566	1320		115°14.5'	-9°	9.2	—		-9.2		271.1	TP	-544	+1203.3	1,058,278	486,974	
1566	1320				2.6	BH	-6.6	-9.2			TP					
	1650		296°27.5'-180°	-9°	+8.5	89°30'	-14.4	-5.9			BS	-712	+1489.3			
	1650				+13.3	89°20'	19.2	-5.9	265.2		BS					
1567	1320		296°40'	-9°	3.9	89°30'	+11.5	+7.6		272.8		+574	-1189	1,058,140	487,277	
1568	990		"	"	0.7	89°30'	+8.6	+7.9		273.1		+430	-892	1,057,996	487,574	
1569	660		"	"	1.6	89°30'	+5.8	+4.2		269.4		+287	-594	1,057,853	487,872	
1570	330		"	"	1.1	—		-1.1		264.1		+143	-297	1,057,709	488,169	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
2/28/80		G. Catcamp		G. Litzinger		6834		GHL v lw		5		123			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Georgia		Scotts Corner		Georgia		Burke								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
									265.2						
1571	0				5.4	-		-5.4		259.8	T	0	0	1,057,566	488,966
1572	330		121°55.8'	-9°	8.1	-		-8.1		257.1		-170	+283	1,057,396	488,799
1573	660		" "	"	7.4	-		-7.4		257.8		-340	+566	1,057,226	489,032
1574	990		" "	"	5.7	-		-5.7		259.5		-510	+898	1,057,056	489,319
1575	1320		" "	"	4.0	-		-4.0		261.2		-680	+1131	1,056,886	489,597
1576	1650		" "	"	1.7	-		-1.7		263.5		-851	+1414	1,056,715	489,880
1577	1980		121°55.8'	-9°	0.2	-		-0.2		265.0	TP	-1021	+1697+3	1,056,595	490,166
1577	1980				10.1	TH	+9.9	-0.2			TP				
	1650		302°18.9'	-180°	-9°	+7.0	89°-	-28.8			BS	-860	+1408+2		
	1650				+5.1	89°9'	-26.9	-21.8	243.2		BS				
<u>IL</u>	1480		302°41.8'	-9°	4.6	89°-	+25.8	+21.2		264.4		+780	-1258	1,056,965	490,318
1578	1320		302°18.9'	-9°	4.4	89°-	+23.0	+18.6		261.8		+688	-1127	1,056,373	490,499
1579	990		" "	"	6.0	89°-	+17.3	+11.3		254.5		+516	-845	1,056,201	490,731
1580	660		" "	"	2.2	89°30'	+5.8	+3.6		246.8		+344	-563	1,056,029	491,013
1581	330		" "	"	2.2	-		-2.2		241.0		+172	-282	1,055,857	491,294
1582	0				5.4	-		-5.4		237.8	T	0	0	1,055,685	491,576
1583	330		119°46'	-1.1°	6.3	-		-6.3		236.9		-158	+290	1,055,527	491,866
1584	660		117°12'	-1.1°	6.0	-		-6.0		237.2		-290	+593	1,055,395	492,169
1585	987		113°34.3'	-1.1°	4.6	-		-4.6		238.6	TP	-377	+912+3	1,055,308	492,491
1585	987				9.6	TH	+4.9	-4.7			TP				curve

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
2/28/80		G. Cotcamp		G. Litzinger		6834		GHL <i>rlw</i>		5	124						
AREA		TOPO MAP	STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER								
Georgia		Scotts Corner	Georgia	Burke													
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		
1585										238.6							
	990		280° 58.8' -180°	-1.1°	+11.8	-		+11.8			BS	-170	+975+3				
	990				+6.8	6H	5.0	+11.8	250.4		BS						
1586	660		280° 58.8'	-1.1°	10.7	-		-10.7		239.7		+113	-650	1,055,251	492,819		
1587	330		"	"	7.8	-		-7.8		242.6		+57	-325	1,055,195	493,144		
1588	0				5.4	-		-5.4		245.0	X	0	0	1,055,138	493,969		
1589	330		99° 49'	-1.1°	3.4	-		-3.4		247.0		-50	+326	1,055,088	493,795		
1590	660		" "	"	1.5	-		-1.5		248.9		-100	+652	1,055,038	494,121		
1591	990		98° 46.2'	-1.1°	0.1	-		-0.1		250.3	TP	-132	+981+4	1,055,006	494,454		
1591	990				5.1	TH	+5.0	-0.1			TP						
	2310		272° 39.1' -180°	-1.1°	+9.2	-		+9.2	259.5		BS	-63	+2309+3				
	2310				+5.1	90° 6'	-4.0	+9.1			BS						
$\frac{11}{11}$	2220		272° 50'	-1.1°	9.0	-		-9.0		250.5		+67	-2219	1,055,010	494,547	1,055,010 + 494,540	T-d(n) el. 252
1592	1980		272° 32'	-1.1°	9.4	-		-9.4		250.1		+50	-1979	1,054,993	494,787		
1593	1650		" "	"	9.2	-		-9.2		250.3		+41	-1649	1,054,984	495,117		
1594	1320		" "	"	8.0	-		-8.0		251.5		+33	-1320	1,054,976	495,446		
1595	990		" "	"	6.8	-		-6.8		252.7		+25	-990	1,054,968	495,776		
1596	660		" "	"	7.1	-		-7.1		252.4		+17	-660	1,054,960	496,106		
1597	330		" "	"	7.4	-		-7.4		252.1		+8	-330	1,054,951	496,436		
1598	0				5.4	-		-5.4		254.1	X	0	0	1,054,943	496,766		
$\frac{11}{11}$	144		88° 3'	-1.1°	3.7	-		-3.7		255.8		+8	+144	1,054,951	496,910	1,054,960 + 496,900	4-Way Intersect. el. 257

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 2/28/80	INSTRUMENT MAN G. Cotcamp	ROD MAN G. Litzinger	PARTY NUMBER 6834	NOTES CHECKED BY GHL rld	LINE NO. 5	PAGE 125
AREA Georgia	TOPO MAP Scott's Corner	STATE Georgia	COUNTY Burke	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.	
									259.5					
1599	330		99° 25'	-1.1°	4.3	-		-4.3		255.2		-48	+327	1,054,895 497,093
1600	660		102° 8'	-1.1°	5.0	-		-5.0		254.5		-126	+648	1,054,817 497,914
1601	990		102° 49'	-1.1°	7.1	-		-7.1		252.4		-200	+970	1,054,793 497,736
1602	1320		102° 46.8'	-1.1°	9.1	BH	-6.6	-15.7			TP	-267-3	+1293+3	1,054,673 498,062
1602	1320				11.8	90° 10'	-3.8	-15.6		243.9	TP			
	1650		282° 43.5' - 180°	-1.1°	+8.2	TH	-8.3	-0.1	200		BS	-332-3	+1616+3	
	1650				+4.9	89° 50'	-4.8	+0.1	243.9		BS			
1603	1320		282° 23'	-1.1°	9.2	-		-9.2		234.7		+258	-1294	1,054,596 498,387
1604	990		281° 36'	-1.1°	12.3	-		-12.3		231.6		+180	-973	1,054,518 498,708
1605	660		280° 21'	-1.1°	11.9	-		-11.9		232.0		+106	-651	1,054,499 499,030
1606	330		" "	"	9.9	-		-9.9		234.0		+53	-326	1,054,391 499,355
1607	0				5.4	-		-5.4		238.5	X	0	0	1,054,338 499,681
1608	330		96° 50.7'	-1.1°	0.8	TH	+1.7	+0.9		244.8		-33	+328	1,054,305 500,009
1609	660		" "	"	4.7	89° -	+11.5	+6.8		250.7		-66	+657	1,054,272 500,338
TP	793		96° 1'	-1.1°	4.0	89° -	+13.8	+9.8		253.7		-68	+790	1,054,270 500,471
1610	990		96° 50.7'	-1.1°	4.0	89° -	+17.3	+13.3		257.2		-99	+985	1,054,239 500,666
1611	1320		" "	"	3.8	89° -	+23.0	+19.2		263.1		-132	+1313	1,054,206 500,999
1612	1650		96° 50.7'	-0.9°	4.0	89° -	+28.8	+24.8		268.7	TP	-171+1	+1641-4	1,054,168 501,318
1612	1650				2.1	89° 4'	+26.9	+24.8			TP			

horiz correct y=-6'
x=+29'
1,054,270 + 500,470
T-rd (south) el. 254.

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
2/29/80		G. Litzinger		G. Cotcamp		6837		GHL		5		126			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Georgia		Scotts Corner		Georgia		Burke								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
1612	1650		276° 56.4' - 180°	-9°	+12.6	—		+12.6	281.3		BS	-174+1	+1691-4		
	1650				+4.3	BH	+8.3	+12.6			BS				
1613	1320		276° 56.4'	-9°	14.2	—		-14.2		267.1		+139	-1313	1,054,134	501,642
1614	990		" "	"	13.1	BH	-5.0	-18.1		263.2		+104	-985	1,054,099	501,970
1615	660		" "	"	13.0	90°30'	-5.8	-18.8		262.5		+69	-656	1,054,064	502,299
1616	330		" "	"	12.7	—		-12.7		268.2		+35	-328	1,054,030	502,627
1617	0				5.4	—		-5.4		275.9	TP	0	0	1,053,995	502,955
1618	330		97° 11'	-9°	5.1	—		-5.1		276.2		-35	+328	1,053,960	503,283
1619	660		" "	"	9.1	—		-9.1		272.2		-70	+656	1,053,925	503,611
1620	990		" "	"	10.2	—		-10.2		271.1		-106	+984	1,053,889	503,939
1621	1320		" "	"	8.8	—		-8.8		272.5		-141	+1312	1,053,854	504,267
±	1450		96° 44.9'	-9°	8.1	—		-8.1		273.2		-148	+1442	1,053,847	504,397
1622	1648		97° 54'	-7°	7.9	—		-7.9			TP	-207+1	+1635-4	1,053,789	504,586
1622	1648				3.0	90°10'	-4.8	-7.8		273.5	TP				
	1980		285° 49.6' - 180°	-7°	+11.2	90°10'	+5.8	+17.0			BS	-517+1	+1911-4		
	1980				+7.1	BH	+9.9	+17.0	290.5		BS				
1623	1650		285° 49.6'	-7°	7.6	BH	-8.3	-15.9		274.6		+431	-1593	1,053,704	504,900
1624	1320		" "	"	12.8	—		-12.8		277.7		+344	-1274	1,053,617	505,219
1625	990		" "	"	8.5	—		-8.5		282.0		+258	-956	1,053,531	505,537
1626	660		" "	"	4.0	—		-4.0		286.5		+172	-637	1,053,445	505,856

1,053,860 + 504,380
7-9 D N. (EL 274)

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 2/29/80	INSTRUMENT MAN G. Litzinger	ROD MAN G. Cotcamp	PARTY NUMBER 6834	NOTES CHECKED BY GHL	LINE NO. 5	PAGE 127
AREA Georgia	TOPO MAP Scotts Corner	STATE Georgia	COUNTY Burke	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.	
									290.5					
1627	330		285° 49.6'	-7°	2.8	-		-2.8		287.7		+86	-319	1,053,359 506,174
1628	0				5.4	-		-5.4		285.1	TP	0	0	1,053,273 506,493
1629	330		112° 21'	-7°	8.4	-		-8.4		282.1		-122	+307	1,053,151 506,800
1630	660		" "	"	11.7	-		-11.7		278.8		-243	+613	1,053,030 507,106
1631	990		" "	"	14.4	-		-14.4		276.1		-365	+920	1,052,908 507,413
1632	1320		" "	"	11.2	BH	-6.6	-17.8		272.7		-487	+1227	1,052,786 507,720
TP	1510		111° 47.3'	-7°	11.9	BH	-7.6	-19.5		271.0		-543	+1409	1,052,730 507,902 1,052,720 + 507,885 Driveway (a)
1633	1650		112° 21'	-7°	12.6	BH	-8.3	-20.9		269.6		-609	+1534	1,052,664 508,027
1634	1980		112° 21'	-7°	13.0	BH	-9.9	-22.9		267.6	TP	-730	+1840	1,052,543 508,329
1634	1980				11.4	90° 20'	-11.5	-22.9			TP			
	1320		292° 49.5' -180	-7°	+4.0	-		+4.0	271.6		BS	-497	+1223	
	1320				+10.5	TH	-6.6	+3.9			BS			
1635	990		292° 49.5'	-7°	4.1	-		-4.1		267.5		+373	-917	1,052,419 508,631
1636	660		" "	"	2.0	-		-2.0		269.6		+249	-611	1,052,295 508,937
1637	330		" "	"	1.3	-		-1.3		270.3		+124	-306	1,052,170 509,242
1638	0				5.4	-		-5.4		266.2	TP	0	0	1,052,046 509,548
1639	330		104° 54.1'	-7°	12.2	-		-12.2		259.4		-81	+320	1,051,965 509,868 CURVE
1640	650		94° 23.6'	-7°	13.3	90° 20'	-3.8	-17.1			TP	-42	+679	1,052,004 510,193
1640	650				11.5	90° 30'	5.7	-17.2		254.4	TP			

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 2/29/80	INSTRUMENT MAN G Litzinger	ROD MAN G Cotcamp	PARTY NUMBER 6834	NOTES CHECKED BY GHL	LINE NO. 5	PAGE 128
AREA Georgia	TOPO MAP Scotts Corner/	STATE Georgia	COUNTY Burke	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.	
1640										254.4				
	1319		259° 12.7' -180	-7°	+3.9	—		+3.9	258.3		BS	+263	+1293-4	
	1319				+10.4	TH	-6.6	+3.8			BS			
1641	990		259° 12.7'	-7°	4.6	—		-4.6		253.7		-197	-970	1,052,070 510,512
1642	660				5.2	—		-5.2		253.1		-131	-697	1,052,136 510,835
TT	568		260° 44.3'	-7°	4.8	—		-4.8		253.5		-98	-559	1,052,169 510,923 Trail (south) e. 255
1643	330		" "	"	5.7	—		-5.7		252.6		-57	-325	1,052,210 511,157
1644	0				5.4	—		-5.4		252.9	TT	0	0	1,052,267 511,482 set up opposite station
1645	330		105° 0.6'	-7°	10.4	—		-10.4		247.9		-82	+320	1,052,185 511,802
1646	660		" "	"	14.4	—		-14.4		243.9		-163	+690	1,052,104 512,122
1647	990		" "	"	14.0	BH	-5.0	-19.0		239.3		-245	+959	1,052,022 512,441 ↑
1648	1320		105° 0.6'	-7°	11.8	90° 30'	-11.5	-23.3		235.0	TP	-326	+1279-2	1,051,941 512,759 Scotts Corner Quad
1648	1320				8.0	90° 40'	-15.4	-23.4			TP			
	1980		286° 32.4' -180	-7°	+6.8	—		+6.8			BS	-540	+1905	
	1980				+1.0	90° 10'	+5.8	+6.8	241.8		BS			
1649	1650		286° 32.4'	-7°	10.4	—		-10.4		231.4		+450	-1587	1,051,851 513,077 Bellevue Quad
1650	1320		" "	"	11.8	—		-11.8		230.0		+360	-1270	1,051,761 513,394 ↓
1651	990		" "	"	11.7	—		-11.7		230.1		+270	-952	1,051,671 513,712
1652	660		" "	"	10.8	—		-10.8		231.0		+180	-635	1,051,581 514,029
1653	330		" "	"	7.7	—		-7.7		234.1		+90	-317	1,051,491 514,347
1654	0				5.4	—		-5.4		236.4	TT	0	0	1,051,401 514,664

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
2/29/80		G. Litzinger		G. Cotcamp		6884		GHL		5		129			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Georgia		BELLEVUE		Georgia		Burke/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
									241.8						
1655	330		107° 55'	-7°	3.8	-		-3.8		238.0		-98	+315	1,051,303	514,979
1656	660		" "	"	6.7	-		-6.7		235.1		-195	+630	1,051,206	515,294
1657	990		" "	"	9.6	-		-9.6		232.2		-293	+946	1,051,108	515,610
1658	1320		" "	"	11.6	-		-11.6		230.2		-391	+1261	1,051,010	515,925
1659	1650		" "	"	12.6	-		-12.6		229.2		-488	+1576	1,050,913	516,240
1660	1980		107° 55'	-7°	10.4	-		-10.4		231.4	TP	-586	+1891	1,050,815	516,555
1660	1980				0.5	BH	-9.9	-10.4			TP				
	660		288° 18.8' -180	-7°	+7.0	-		+7.0	238.4		BS	-200	+629		
	660				+10.3	TH	-3.3	+7.0			BS				
1661	330		280° 18.8'	-7°	9.4	-		-4.4		234.0		+55	-325	1,050,670	516,859
1662	0				5.4	-		-5.4		233.0	TP	0	0	1,050,615	517,184
	15		49° 47'	-7°	5.7	-		-5.7		232.7		+10	+11	1,050,625	517,195
1663	336		107° 26.3'	-7°	6.3	-		-6.3		232.1		-95	+316	1,050,520	517,500
1664	660		107° 26.3'	-7°	7.5	-		-7.5		230.9	TP	-190+2	+632-2	1,050,427	517,814
1664	660				4.2	BH	-3.3	-7.5			TP				
	1650		289° 6.2' -180°	-7°	+1.1	-		+1.1	232.0		BS	-521+2	+1566-2		
	1650				+8.3	TH	-8.3	+1.0			BS				
1665	1320		289° 6.2'	-7°	2.6	-		-2.6		229.4		+417	-1252	1,050,325	518,126
1666	990		" "	"	3.6	-		-3.6		228.4		+313	-939	1,050,221	518,439
1667	660		" "	"	5.8	-		-5.8		226.2		+208	-626	1,050,116	518,752

horiz. correct. y0=+4'
x2=-39'

1,050,625 + 517,195
Trail(n)

✓ reduced 3/4/80 GWS

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 3/3/80	INSTRUMENT MAN G. Cotcamp	ROD MAN G. Litzinger	PARTY NUMBER 6834	NOTES CHECKED BY GHL	LINE NO. 5	PAGE 130
AREA Georgia	TOPO MAP Bellevue	STATE Georgia	COUNTY Jenkins	RANGE JLW	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			
									232.0									
1668	330		289° 6.2'	-7°	6.4	-		-6.4		225.6		+104	-313	1,050,012	519,065			
1669	0				5.4	-		-5.4		226.6	X	0	0	1,049,908	519,378			
1670	330		116° 59.3'	-7°	3.3	-		-3.3		228.7		-146	+296	1,049,762	519,674			
1671	660		" "	"	0.8	-		-0.8		231.2		-292	+592	1,049,616	519,970			
1672	990		" "	"	3.3	TH	+5.0	+1.7		233.7		-438	+888	1,049,470	520,266			
JL TP	1258		116° 27.2'	-7°	2.1	TH	+6.2	+4.1		236.1		-547	+1133	1,049,361	520,511			1,049,400 + 520,500 4-Way Intersect el. 238.
1673	1320		116° 59.3'	-7°	2.8	TH	+6.6	+3.8		235.8		-585	+1183	1,049,323	520,561			
1674	1650		" "	"	0.8	TH	+8.3	+7.5		239.5		-731	+1479	1,049,177	520,857			
1675	1980		116° 59.3'	-9°	5.9	89° 30'	+17.3	+11.4	+11.5	243.5	TP	-871+3	+1778-2	1,049,040	521,154			
1675	1980		" "	"	14.9	89° 14'	+26.5	+11.6			TP							
	1650		297° 7.3' - 180°	-9°	+12.2	TH	-8.3	+3.9			BS	-729+3	+1480-2					
	1650				+4.0	-		+4.0	247.5		BS							
1676	1320		297° 7.3'	-9°	1.9	-		-1.9		245.6		+583	-1184	1,048,897	521,448			
1677	990		" "	"	2.1	-		-2.1		245.4		+437	-888	1,048,751	521,744			
1678	660		" "	"	3.4	-		-3.4		244.1		+292	-592	1,048,606	522,040			
1679	330		" "	"	4.7	-		-4.7		242.8		+146	-296	1,048,460	522,336			
1680	0				5.4	-		-5.4		242.1	X	0	0	1,048,314	522,632			
1681	330		117° 3'	-9°	4.5	-		-4.5		243.0		-145	+296	1,048,169	522,928			
1682	660		" "	"	4.5	-		-4.5		243.0		-291	+592	1,048,023	523,224			
1683	990		" "	"	5.0	-		-5.0		242.5		-436	+889	1,047,878	523,521			

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 3/3/80	INSTRUMENT MAN G. Cotcamp	ROD MAN G. Litzinger	PARTY NUMBER 6834	NOTES CHECKED BY GHL	LINE NO. 5	PAGE 131
AREA Georgia	TOPO MAP Bellevue/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.	
									247.5					
1684	1320		117° 3'	-9°	5.8	-		-5.8		241.7		-582	+1185	1,047,732 523,817
1685	1650		117° 3'	-9°	5.5	-		-5.5		242.0	TP	-727+3	+1481-2	1,047,590 524,111
1685	1650				13.8	TH	+8.3	-5.5			TP			
	978		313° 41' -180°	-9°	+13.2	-		+13.2			BS	-669+3	+718	curve
	978				+8.3	BH	+4.9	+13.2	255.2		BS			
1686	655		319° 26'	-9°	11.0	-		-11.0		244.2		+491	-434	1,047,420 524,395
	490		323° 33'	-9°	9.0	-		-9.0		246.2		+390	-297	1,047,319 524,532 Y-intersect.
1687	330		324° -	-9°	8.6	-		-8.6		246.6		+264	-198	1,047,193 524,631 new road
1688	0				5.4	-		-5.4		249.8	T	0	0	1,046,929 524,829 ↓
1689	330		144° 4'	-9°	0.4	-		-0.4		254.8		-264	+198	1,046,665 525,027
1690	660		" "	"	6.7	89° -	+11.5	+4.8		260.0		-528	+396	1,046,401 525,225
1691	990		" "	"	9.3	89° -	+17.3	+8.0		263.2		-792	+593	1,046,137 525,422 ↑
1692	1320		144° 4'	-9°	10.9	89° 20'	+15.4	+4.5		259.7	TP	-1057+3	+791	1,045,875 525,620 Bellevue Quad
1692	1320				14.7	89° 10'	+19.2	+4.5			TP			
	1980		324° 43' -180°	-9°	+1.8	TH	-9.9	-8.1			BS	-1598+3	+1169	
	1980				+9.2	89° 30'	-17.3	-8.1	251.6		BS			
1693	1650		324° 43'	-9°	2.2	-		-2.2		249.4		+1332	-974	1,045,612 525,815 Birdsville Quad.
1694	1320		" "	"	11.1	-		-11.1		240.4		+1065	-779	1,045,345 526,010 ↓
1695	990		" "	"	15.3	-		-15.3		236.3		+799	-584	1,045,079 526,205
1696	660		" "	"	12.3	-		-12.3		239.3		+533	-390	1,044,813 526,399

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 3/3/80	INSTRUMENT MAN G. Cotcamp	ROD MAN G. Litzinger	PARTY NUMBER 6834	NOTES CHECKED BY GHL	LINE NO. 5	PAGE 132
AREA Georgia	TOPO MAP Birdsville	STATE Georgia	COUNTY Jenkins	RANGE GHL	PPM rel	PARTY MANAGER Davis

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
									251.6							
1697	330		324°43'	-9°	8.2	-		-8.2		243.4		+266	-195	1,044,546	526,594	
1698	0				5.4	-		-5.4		246.2	X	0	0	1,044,280	526,789	
TL	68		137°20'	-9°	4.4	-		-4.4		242.2		-49	+47	1,044,231	526,836	4-Way (new road)
TL	28.5		69°10'	-9°	4.5	-		-4.5		247.1		+106	+265	1,044,386	527,054	4-Way (old road) el. 249.
1699	330		146°18'	-9°	6.7	-		-6.7		244.9		-272	+187	1,044,008	526,976	
1700	660		" "	"	11.9	-		-11.9		239.7		-543	+375	1,043,737	527,164	
1701	990		" "	"	12.5	8H	-5.0	-17.5		234.1		-815	+562	1,043,465	527,351	
1702	1320		" "	"	10.3	90°30'	-11.5	-21.8		229.8		-1087	+750	1,043,193	527,539	
1703	1650		" "	"	10.3	90°30'	-14.4	-24.7		226.9		-1358	+937	1,042,922	527,724	
1704	1980		" "	"	10.3	90°30'	-17.3	-27.6		224.0		-1630	+1124	1,042,650	527,913	
V	2250		146°3'	-9°	10.0	90°30'	-19.6	-29.6		222.0		-1846	+1286	1,042,434	528,075	V-intersect
1705	2310		146°18'	-9°	10.4	90°30'	-20.2	-30.4			TP	-1901+2	+1312-2	1,042,381	528,099	
1705	2310				6.3	90°36'	-24.2	-30.5		221.1	TP					
	1980		331°18.8' -180°	-9°	+2.4	-		+2.4			BS	-1722+2	+978-2			
	1980				+12.3	TH	-9.9	+2.4	223.5		BS					
1706	1650		332°5'	-9°	4.6	-		-4.6		218.9		+1446	-795	1,042,107	528,280	
1707	1320		" "	"	5.9	-		-5.9		217.6		+1157	-636	1,041,818	528,439	
1708	990		" "	"	6.2	-		-6.2		217.3		+867	-477	1,041,528	528,598	
1709	660		" "	"	5.9	-		-5.9		217.6		+578	-318	1,041,239	528,757	
1710	330		" "	"	5.3	-		-5.3		218.2		+289	-159	1,040,950	528,916	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
3/3/80		G. Cotcamp		G. Litzinger		6834		GHL		5	133					
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE	PPM	PARTY MANAGER				
Georgia		E		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
									223.5							
1711	0				5.4	-		-5.4		218.1	π	0	0	1,040,661	529,075	
1712	330		152° 4.6'	-9°	4.9	-		-4.9		218.6		-289	+159	1,040,372	529,234	
1713	660		" "	"	4.6	-		-4.6		218.9		-578	+318	1,040,083	529,393	
1714	990		" "	"	3.8	-		-3.8		219.7		-867	+477	1,039,794	529,552	last sta on pavement
≡	1190		154° 50.5'	-9°	4.2	-		-4.2		219.3		-1024	+501	1,039,437	529,574	Y-intersect.
1715	1320		152° 4.6'	-9°	7.0	-		-7.0		216.5		-1156	+636	1,039,505	529,711	dist road.
1716	1650		152° 4.6'	-9°	4.9	-		-4.9		218.6	TP	-1446+2	+795-2	1,039,217	529,868	↓
1716	1650				132	TH	+8.3	-4.9			TP					
	327		329° 40' -180°	-9°	+11.3	-		+11.3			BS	-264+2	+193-2			
	327				+12.9	TH	-1.6	+11.3	229.9		BS					curve
1717	0				5.4	-		-5.4		224.5	π	0	0	1,038,955	530,059	
1718	330		130° 16.8'	-1.1°	4.6	-		-4.6		225.3		-208	+256	1,038,747	530,315	
1719	660		130° 16.8'	-1.1°	7.7	-		-7.7		222.2	TP	-417+2	+512-2	1,038,540	530,569	
1719	660				11.0	TH	+3.3	-7.7			TP					
	990		309° 51.7' -180°	-1.1°	+13.3	-		+13.3			BS	-620+2	+772-2			
	990				+8.4	BH	+5.0	+13.4	235.6		BS					
1720	660		309° 51.7'	-1.1°	11.5	-		-11.5		224.1		+413	-515	1,038,335	530,824	
1721	330		" "	"	4.3	-		-4.3		231.3		+207	-257	1,038,129	531,082	
1722	0		" "	"	5.4	-		-5.4		230.2	π	0	0	1,037,922	531,339	
1723	330		130° 26.2'	-1.1°	16.7	-		-10.7		224.9		-209	+255	1,037,713	531,594	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 3/4/80	INSTRUMENT MAN G. Cotcamp	ROD MAN G. Litzinger	PARTY NUMBER 6834	NOTES CHECKED BY GHL rlv	LINE NO 5	PAGE 13A
AREA Georgia	TOPO MAP Birdsville	STATE Georgia	COUNTY Jenkins	TWP	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 X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									235.6						
1724	660		130° 26.2'	-1.1°	14.3	-		-14.3		221.3		-418	+510	1,037,504	531,849
1725	990		130° 26.2'	-1.1°	10.1	90° 40'	-11.5	-21.6		214.0	TP	-628+2	+766-2	1,037,296	532,103
1725	990				7.2	90° 30'	-14.4	-21.6			TP				
	1320		310° 35.9' -180°	-1.1°	+4.6	BH	+6.6	+11.2			BS	-839+2	+1019-2		
	1320				+5.8	90° 14'	+5.4	+11.2	225.2		BS				
1726	990		310° 35.9'	-1.1°	14.6	-		-14.6		210.6		+630	-764	1,037,089	532,356
1727	660		" "	"	10.0	-		-10.0		215.2		+420	-509	1,036,879	532,611
1728	330		" "	"	5.4	-		-5.4		219.8		+210	-255	1,036,669	532,865
1729	0				5.4	-		-5.4		219.8	X	0	0	1,036,459	533,120
1730	330		129° 15'	-1.1°	8.3	-		-8.3		216.9		-204	+260	1,036,255	533,380
1731	660		" "	"	12.6	-		-12.6		212.6		-408	+519	1,036,051	533,639
1732	990		129° 15'	-1.1°	11.7	-		-11.7		213.5	TP	-612+2	+779-2	1,035,849	533,877
1732	990				6.7	BH	-5.0	-11.7			TP				
	987		288° 24.2' -180°	-1.1°	+13.9	89° -	-17.2	-3.3	210.2		BS	-294+3	+942-2		curve
	987				+11.0	89° 10'	14.4	-3.4			BS				
1733	660		287° 10'	-1.1°	1.3	TH	+3.3	+2.0		212.2		+183	-634	1,035,741	534,203
1734	330		" "	"	3.1	-		-3.1		207.1		+91	-317	1,035,649	534,520
1735	0				5.4	-		-5.4		204.8	X	0	0	1,035,558	534,837
1736	330		118° 49'	-1.1°	2.1	-		-2.1		208.1		-153	+292	1,035,405	535,129
1736	522		117° 12'	-1.1°	0.4	-		-0.4		209.8		-230	+469	1,035,328	535,306

1,035,370 + 535,300
Trail (north) el. 213

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 3/4/80	INSTRUMENT MAN G. Cotcamp	ROD MAN G. Litzinger	PARTY NUMBER 6834	NOTES CHECKED BY GHL	LINE NO. 5	PAGE 135
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.	
									210.2					
1737	660		117° 3.3'	-1.1°	2.9	TH	+3.3	+0.4		210.6	TP	-289	+593-2	1035,269 535,428
1737	660				3.4	89°40'	+3.8	+0.4			TP			
	1320		293° 53' -180°	-1.1°	+11.6	-		+11.6			BS	-511	+1217-2	
	1320				+19.7	89°52'	-3.1	+11.6	222.2		BS			
1738	990		293° 53'	-1.1°	13.2	-		-13.2		209.0		+383	-913	1,035,141 535,730
1739	660		" "	"	13.0	BH	-3.3	-16.3		205.9		+256	-609	1,035,014 536,034
1740	330		" "	"	12.9	-		-12.9		209.3		+128	-304	1,034,886 536,339
1741	0				5.4	-		-5.4		216.8	TP	0	0	1,034,758 536,643
1742	330		113° 41.9'	-1.1°	9.3	-		-9.3		212.9		-127	+305	1,034,631 536,948
1743	660		113° 41.9'	-1.1°	13.0	BH	-3.3	-16.3		205.9	TP	-254	+609-2	1,034,504 537,250
1743	660				10.5	90°30'	-5.8	-16.3			TP			
	990		274° 16' -180°	-1.1°	+6.4	-		+6.4			BS	-55	+988-2	
	990				+1.4	BH	+5.0	+6.4	212.3		BS			
1744	660		272° 45'	-1.1°	9.2	-		-9.2		203.1		+19	-660	1,034,468 537,576
1745	330		" "	"	9.6	-		-9.6		202.7		+10	-330	1,034,459 537,906
1746	0				5.4	-		-5.4		206.9	TP	0	0	1,034,449 538,236
1747	330		92° 26.6'	-1.1°	0.9	TH	+1.7	+0.8		213.1		-8	+330	1,034,441 538,566
1748	660		" "	"	2.8	89°30'	+5.8	+3.0		215.3		-15	+660	1,034,434 538,896
1749	990		92° 26.5'	-1.1°	10.0	89°30'	+8.6	-1.4		210.9	TP	-23	+990-1	1,034,426 539,225
1749	990				8.4	89°36'	+6.9	-1.5			TP			

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 3/5/80	INSTRUMENT MAN G. Cotcamp	ROD MAN G. Litzinger	PARTY NUMBER 6834	NOTES CHECKED BY GHL	LINE NO. 5	PAGE 136
AREA Georgia	TOPO MAP Birdville	STATE Georgia	COUNTY Jenkins	RANGE xlv	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 X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
1749										210.9				
	990		271°41.7' -180°	-1.1°	+2.5	BH	+5.0	+7.5			BS	-10	+990	
	990				+1.8	90°20'	+5.8	+7.6	218.5		BS			
1750	660		271°41.7'	-1.1°	14.6	-		-14.6		203.9		+7	-660	1,034,423 539,555
1751	330		"	"	12.1	-		-12.1		206.4		+3	-330	1,034,419 539,885
1752	0				54	-		-5.4		213.1	TP	0	0	1,034,416 540,215 set up opposite sta.
1753	330		92°18A'	-1.1°	6.7	-		-6.7		211.8		-7	+330	1,034,409 540,545
1754	660		"	"	8.3	-		-8.3		210.2		-14	+660	1,034,402 540,875 horiz. correct. y = +93 x = -39
1755	990		"	"	15.1	-		-15.1		203.4		-21	+990	1,034,395 541,205
TP	1035		92°47.5'	-1.1°	10.8	BH	-5.2	-16.0		202.5		-31	+1035	1,034,385 541,250 1,034,385 + 541,250 Trail (s) el. 208.
1756	1320		92°18.9'	-1.1°	14.9	BH	-6.6	-21.5		197.0	TP	-28	+1320-4	1,034,388 541,531 ✓rechecked rod reading 3/6/80 GWC
1756	1320				10.0	90°30'	-11.5	-21.5			TP			
	330		289°30' -180°	-1.1°	+2.6	TH	-6.7	+0.9			BS	-76	+321-4	
	330				+4.8	89°20'	-3.8	+1.0	198.0		BS			
1757	0				54	-		-5.4		192.6	TP	0	0	1,034,312 541,848
1758	330		124°42.3'	-9°	6.3	-		-6.3		191.7		-184	+274	1,034,128 542,122
1759	660		124°42.3'	-9°	7.8	-		-7.8		190.2	TP	-367	+548-4	1,033,745 542,992
1759	660				11.1	TH	3.3	-7.8			TP			
	1650		304°24.3' -180°	-9°	+7.4	-		+7.4	197.6		BS	-911	+1376-4	
	1650				+1.6	70°12'	+5.8	+7.4			BS			
1760	1320		304°24.3'	-9°	9.2	-		-9.2		188.4		+729	-1101	1,033,763 542,663

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3/6/80		G. Colcamp		G. L. Tzinger		6837		GHL		5		137			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Georgia		Birdsville		Georgia		Jenkins								Davis	
STATION NO.	SLOPE DISTANCE	PLOTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									197.6						
1761	990		309° 24.3'	-9°	10.7	-		-10.7		186.9		+546	-825	1,033,580	542,939
1762	660		" "	"	10.3	-		-10.3		187.3		+364	-550	1,033,398	543,214
1763	330		" "	"	6.2	-		-6.2		191.4		+182	-275	1,033,216	543,489
1764	0		" "	"	5.4	-		-5.4		192.2	TP	0	0	1,033,034	543,764
1765	330		95° 20'	-9°	7.5	-		-7.5		190.1		-26	+329	1,033,008	544,093
1766	660		" "	"	9.5	-		-9.5		188.1		-51	+658	1,032,983	544,422
1767	990		" "	"	13.1	-		-13.1		184.5		-77	+987	1,032,957	544,757
1768	1320		" "	"	9.2	BH	-6.6	-15.8		181.9		-102	+1316	1,032,932	545,080
1769	1650		" "	"	9.8	BH	-8.3	-18.1		179.5		-128	+1645	1,032,906	545,409
1770	1980		95° 20'	-9°	8.1	BH	-9.9	-18.0			TP	-153	+1974-4	1,032,881	545,734
1770	1980		" "	"	6.4	90° 20'	-11.5	-17.9		179.7	TP				
	1980		274° 37.4' - 180°	-9°	+6.5	-		+6.5			BS	-129.2	+1976-4		
	1980		" "	"	+0.9	90° 10'	+5.8	+6.7	186.3		BS				
1771	1650		274° 37.4'	-9°	5.4	-		-5.4		180.9		+107	-1647	1,032,857	546,059
1772	1320		" "	"	4.0	-		-4.0		182.3		+86	-1317	1,032,836	546,389
1773	990		" "	"	4.3	-		-4.3		182.0		+64	-988	1,032,814	546,718
1774	660		" "	"	7.4	-		-7.4		178.9		+43	-659	1,032,793	547,047
1775	330		" "	"	2.4	-		-2.4		183.9		+21	-329	1,032,771	547,377
1776	0		" "	"	5.4	-		-5.4		180.9	TP	0	0	1,032,750	547,706
1777	330		94° 33.3	-9°	6.0	-		-6.0		180.3		-21	+329	1,032,729	548,035

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 3/6/80	INSTRUMENT MAN G. LITZINGER	ROD MAN G. COLCAMP	PARTY NUMBER 6834	NOTES CHECKED BY GHL	LINE NO. 5	PAGE 138
AREA GEORGIA	TOPO MAP Birdsville/Millen	STATE GEORGIA	COUNTY JIMKINS	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.	
									186.3					
1778	660		94°33.3'	-90	1.0	-		-1.0		185.3		-42	+659	1,032,708 548,365
1779	990		"	-90	0.9	TH	+5.0	+4.1		190.4		-63	+988	1,032,687 548,694
1780	1320		"	-90	7.7	89°30'	+11.5	+3.9		190.1		-84	+1317	1,032,666 549,023
1781	1650		94°33.3'	-90	12.9	89°30'	+14.4	+1.5		187.8		-105	+1647	1,032,645 549,353
1782	1980		94°33.3'	-90	11.7	89°30'	+17.3	+5.6		191.9	TP	-126-2	+1976-4	1,032,622 549,678
1782	1980				6.0	89°40'	+11.5	+5.5			TP			
	1320		275°5'-180	-90	+13.5	-		+13.5	205.4		BS	-96-3	+1316-4	
	1320				+6.9	TH	+6.6	+13.5			BS			
1783	990		275°5'	-90	6.0	-		-6.0		199.4		+72	-987	1,032,595 550,003
1784	660		"		6.5	-		-6.5		198.9		+48	-658	1,032,571 550,332
1785	330		"	"	10.5	-		-10.5		199.9		+24	-329	1,032,547 550,661
1786	0				5.4	-		-5.4		200.0	TP	0	0	1,032,523 550,990
1787	330		116°54.7'	-90	0.8	-		-0.8		204.6		-145	+297	1,032,378 551,287
	395		115°34.2'	-90	0.7	-		-0.7		204.7		-165	+359	1,032,358 551,349
1788	660		121°53.7'	-70	2.1	-		-2.1		203.3		-342	+565	1,032,181 551,555
1789	984		121°48.2'	-70	5.0	-		-5.0		200.4	TP	-508-3	+843-2	1,032,012 551,831
1789	984				9.9	TH	+4.9	-5.0			TP			
	1320		298°58.7'-180	-70	+0.0	-		+0.0	200.4		BS	-625-4	+1162	
	1320				+6.5	TH	-6.6	-0.1			BS			
1790	990		298°58.7'	-70	3.7	-		-3.7		196.7		+469	-872	1,031,852 552,121

Birdsville Quad.
Millen Quad.
LAST STA. OR DAT
1,032,400 + 551,315
Y-intersect.

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE								
3/6/80		G. LITZINGER		G. COTCAMP		6834		GHL		5	139								
AREA		TOPO MAP	STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER										
Georgia		Millen	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	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS	
												LAT.	DEP.	Y	X				
									2004										
1791	660		298°58.7'	-7°	10.0	-		-10.0		190.4		+313	-581	1,031,696	552,412				
1792	330		" "	"	8.2	-		-8.2		192.2		+156	-291	1,031,539	552,702				
1793	0				5.4	-		-5.4		195.0	TP	0	0	1,031,383	552,993				
1794	330		124°21.7'	-7°	4.8	-		-4.8		195.6		-183	+275	1,031,200	553,268				
1795	656		132°3.8'	-7°	10.6	89°30'	+5.7	-4.9		195.5	TP	-434.3	+492	1,030,946	553,485				
1795	656				12.5	89°20'	+7.6	-4.9			TP								
	2310		327°46.5' -180°	-5°	13.2	90°30'	+20.2	+33.4			BS	-1943.4	+1249						
	2310			"	6.5	90°40'	+26.9	+33.4	228.9		BS								
1796	1980		327°46.5'	"	8.7	90°40'	-23.0	-31.7		197.2		+1666	-1070	1,030,665	553,664				
1797	1630		" "	"	11.2	90°40'	-19.2	-30.4		198.5		+1388	-892	1,030,382	553,892				
1798	1320		" "	"	11.6	90°50'	-19.2	-30.8		198.1		+1110	-714	1,030,109	554,020				
1799	990		" "	"	12.5	90°50'	-14.4	-26.9		202.0		+833	-535	1,029,832	554,199				
1800	660		" "	"	14.3	90°20'	-3.8	-18.1		210.8		+555	-357	1,029,554	554,377				
1801	330		" "	"	9.7	-		-9.7		219.2		+278	-178	1,029,277	554,556				
1802	0				5.4	-		-5.4		223.5	TP	0	0	1,028,999	554,734				
1803	330		147°39.7'	-5°	5.2	-		-5.2		223.7		-277	+179	1,028,722	554,913				
1804	660		" "	"	6.0	-		-6.0		222.9		-555	+358	1,028,444	555,092				
1805	990		" "	"	6.9	-		-6.9		222.0		-832	+537	1,028,167	555,197				
1806	1320		" "	"	8.1	-		-8.1		220.8		-1109	+716	1,027,890	555,450				
1807	1650		" "	"	9.5	-		-9.5		219.4		-1386	+895	1,027,613	555,629				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
3/6/80		G. LITZINGER		G. COTCAMP		6834		GHL <i>slw</i>		5	140					
AREA		TOPO MAP		STATE		COUNTY		TWP		PARTY MANAGER						
Georgia		MILLEN QUADRANGLE		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
									228.9							
1808	1980		147° 39.7'	-5.0	11.1	-		-11.1		217.8		-1664	+1074	1027,335	555,808	horiz. coord, Y=-21, X=-39
1809	2310		" "	"	12.8	-		-12.8		216.1		-1941	+1253	1027,058	555,987	
1810	2385		147° 26'	-5.0	13.3	-		-13.3		215.6		-1999	+1301	1027,000	556,035	1027,000 + 556,035 TRD (NE. EC 218)
1810	2640		147° 39.7'	-8.0	8.3	90° 10'	-7.7	-16.0			TP	-2211.4	+1493	1026,792	556,177	
1810	2640				6.7	90° 12'	-9.2	-15.9		213.0	TP					
	1650		328° 17.4' -180°	-8.0	+5.5	89° 30'	-14.4	-8.9	204.1		BS	-1391.4	+887			
	1650				+0.8	89° 40'	9.6	-8.8			BS					
1811	1320		328° 17.4'	-8.0	1.2	TH	+6.6	+5.4		209.5		+1113	-709	1026,518	556,355	
1812	990		" "	"	2.9	TH	+5.0	+2.1		206.2		+835	-532	1026,240	556,532	
1813	660		" "	"	1.0	-		-1.0		203.1		+557	-355	1025,962	556,709	
1814	330		" "	"	3.9	-		-3.9		200.2		+278	-177	1025,683	556,887	
1815	0				5.4	-		-5.4		198.7	TP	0	0	1025,405	557,064	
1816	330		148° 13'	-1.0°	4.7	-		-4.7		199.4		-277	+179	1025,128	557,243	
1817	660		" "	"	5.5	-		-5.5		198.6		-555	+357	1024,850	557,421	
1818	990		" "	"	7.1	-		-7.1		197.0		-832	+536	1024,573	557,600	
1819	1320		" "	"	2.3	-		-2.3		201.5		-1110	+715	1024,295	557,779	
1820	1650		147° 27'	-1.0°	3.1	TH	+8.3	+5.2		209.3	TP	-1375.9	+912	1024,034	557,976	
1820	1650				4.5	89° 40'	+9.6	+5.1			TP					
	1650		319° 12.2' -180°	-1.0°	+8.1	89° 30'	-14.4	-6.3	203.0		BS	-1230.2	+1100			
	1650				+7.2	89° 34'	-12.5	-5.3			BS					

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 3/7/80	INSTRUMENT MAN G. Cotcamp	ROD MAN G. Litzinger	PARTY NUMBER 6834	NOTES CHECKED BY GHL	LINE NO. 5	PAGE 141
AREA Georgia	TOPO MAP Miller	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	X
									203.0							
1821	1400		319° 30'	-1.0°	4.6	89° 30'	+12.2	+7.6		210.6		+1049	-928	1,023,855	558,148	1,023,855 + 558,150 P-intensd. el. 212
1822	1320		319° 12.2'	-1.0°	4.0	89° 30'	+11.5	+7.5		210.5		+984	-880	1,023,790	558,196	
1823	990		" "	"	3.4	89° 30'	+8.6	+5.2		208.2		+738	-660	1,023,544	558,416	
1824	660		" "	"	1.2	TH	+3.3	+2.1		205.1		+492	-440	1,023,298	558,636	
1825	330		" "	"	1.8	-		-1.8		201.2		+246	-220	1,023,052	558,856	
1826	0				5.4	-		-5.4		197.6	X	0	0	1,022,806	559,076	
1827	330		139° 18'	-1.2'	8.1	-		-8.1		194.9		-246	+220	1,022,560	559,296	
1828	660		" "	"	8.7	-		-8.7		194.3		-491	+441	1,022,315	559,517	
1829	990		" "	"	7.8	-		-7.8		195.2		-737	+661	1,022,069	559,737	
1830	1320		" "	"	7.1	-		-7.1		195.9		-982	+882	1,021,824	559,958	
1830	1650		140° 2'	-1.2'	10.5	-		-10.5		192.5	TP	-1242+2	+1086	1,021,566	560,162	
1830	1650				2.2	BH	-8.3	-10.5			TP					
	1320		323° 8' -180°	-1.2°	+2.8	89°	-23.0	-20.2			BS	-1039.3	+814			
	1320				+6.7	88° 50'	-26.9	-20.2	172.3		BS					
1831	990		323° 8'	-1.2°	1.2	89°	+17.3	+16.1		188.4		+779	-610	1,021,309	560,366	
1832	660		" "	"	1.2	89°	+11.5	+14.3		182.6		+520	-407	1,021,050	560,569	
1833	330		" "	"	3.3	89°	+5.8	+2.5		174.8		+260	-203	1,020,790	560,773	
1834	0				5.4	-		-5.4		166.9	X	0	0	1,020,530	560,976	
1835	330		139° 43'	-1.2°	12.9	-		-12.9		159.4		-227	+239	1,020,303	561,215	
1836	330		" "	"	13.5	90° 30'	-5.8	-19.3		153.0		-454	+479	1,020,076	561,455	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 3/7/80	INSTRUMENT MAN G. Cotcamp	ROD MAN G. Litzinger	PARTY NUMBER 6834	NOTES CHECKED BY GHL	LINE NO. 5	PAGE 142
AREA Georgia	TOPO MAP Millen	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 X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									1723						
1837	990		134° 43'	-1.2°	14.3	90° 30'	-8.6	-22.9		149.4		-682	+718	1,019,848	561,694
1838	1320		139° 43'	-1.2°	12.2	90° 30'	-11.5	-23.7		148.6		-909	+957	1,019,621	561,933
//	1400		139° 13'	-1.2°	10.2	90° 30'	-12.2	-22.4		149.9		-955	+1024	1,019,575	562,000
															EOL. 1,019,575 + 562,000 T-intersect. el. 151. horiz correct y=+19' x=0'