

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
5-1-85		B. Cotcamp		K. Greenfield		6834		HUG		24	1					
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER						
GEORGIA		Hogansville - 7 1/2'		GA.	HEARD					W. Cassidy						
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS
												LAT.	DEP.	Y	X	
K.F.	T-INTERSECT		ELEV 756.0 (scanned)		-1.176	700	X-258.345			756.0	K.F.			1,176,700	258,345	T-Intersect E.L. 756.0
	1406		129° 32' 45"	-0.4	13.5	89° 30'	-12.3	+1.2	757.2		BS	+888	-1090			
	1406				13.5	270° 30'	-12.3	+1.2			BS					
1	1300		129° 10'	--	14.8	89° 26'	+12.9	-1.9		755.3		-814	+1014	1,176,774	258,269	
2	970		130° 26'	--	6.1	89° 26'	+9.6	+3.5		760.7		-624	+743	1,176,964	257,998	
3	641		131° 55'	--	7.1	89° 20'	+7.5	+0.4		757.6		-425	+480	1,177,163	257,735	
4	311		133° 30'	--	7.3	89° 20'	+3.6	-3.7		753.5		-213	+227	1,177,375	257,482	
π	0				5.1	-		-5.1		752.1	π	0	0	1,177,588	257,255	
5	33		16° 55'	-0.4	6.8	89° 20'	+0.4	-6.4		750.8		+32	+9	1,177,620	257,264	
6	352		329° 50'	--	8.1	89° 30'	+3.1	-5.0		752.2		+303	-179	1,177,891	257,076	
7	680		332° 40'	--	8.9	89° 30'	+5.9	-3.0		754.2		+602	-316	1,178,190	256,939	
TP	757		333° 43' 33"	--	2.2	-		-2.2		755.0	TP	+676	-340	1,178,264	256,915	
TP	757				6.0	TM	+3.8	-2.2			TP					
	1570		172° 32' 51"	-0.4	14.3	89° 30'	-13.7	+0.6	755.6		BS	+1555	-214			
	1570				14.4	270° 30'	-13.7	+0.7			BS					
8	1320		172° 45'	--	10.1	89° 30'	+11.5	+1.4		757.0		-1308	+176	1,178,511	256,877	
9	990		172° 35'	--	4.7	89° 30'	+8.6	+3.9		759.5		-981	+135	1,178,838	256,836	
10	660		172° 10'	--	5.7	89° 10'	+9.6	+3.9		759.5		-653	+95	1,179,166	256,796	
11	330		170° 35'	--	5.3	89° 10'	+4.8	-0.5		755.1		-325	+56	1,179,494	256,757	
IF	310		172° 33' 53"	--	5.5	89° 10'	+4.5	-1.0		754.6	IF	-307	+42	1,179,512	256,743	IF - Intersect
12	0				5.1	-		-5.1		750.5	π	0	0	1,179,819	256,701	

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
5-1-85		B. Cotcamp		K. Greenfield		6834		MLK		24		2				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
GEORGIA		Hogansville - 7 1/2'		G.A.		HEARD								W. Cassidy		
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
13	330		344° 30'	-0.4	6.3	90° 50'	-4.4	-11.1		744.5		+317	-90	1,180,136	256,611	
14	659		341° 35'	--	8.1	90° 50'	-9.6	-17.7		737.9		+624	-213	1,180,443	256,488	
15	989		- -	--	10.3	90° 50'	-14.4	-24.7		730.9		+936	-319	1,180,755	256,382	
16	1319		- -	--	12.6	90° 52'	-14.9	-32.5		723.1		+1249	-425	1,181,068	256,276	
17	1648		342° 58'	-	8.0	91° 10'	-33.6	-41.6		714.0		+1572	-494	1,181,391	256,207	
18	1979		343° 05' 51"	-0.6	5.7	91° 14'	-42.6	-48.3		707.3	TP	+1887	-595	1,181,706	256,106	ACROSS STA.
18	1979				5.8	268° 46'	-42.6	-48.4			TP					
	1463		174° 03' 35"	-- +	7.3	88° 30'	-38.3	-31.0	676.4		BS	+1453	-167			
	1463				7.5	271° 30'	-38.3	-30.8	30.93		BS					
19	1132		174° -	--	7.9	88° 30'	+29.6	+21.7		698.1		-1125	+130	1,182,034	256,069	
20	802		173° 30'	--	7.8	88° 28'	+21.5	+13.7		690.1		-796	+99	1,182,363	256,038	
21	474		178° 20'	--	6.9	88° 30'	+12.4	+5.5		681.9		-466	+84	1,182,693	256,023	
22	146		163° 10'	--	6.0	88° 30'	+3.8	-2.2		674.2		-139	+44	1,183,020	255,983	Hogansville - 7 1/2' ↑
π	0		0		5.1	-		-5.1		671.3	π	0	0	1,183,159	255,939	NEWMAN S.W. - 7 1/2' ↓
23	184		332° 40'	-0.6	10.1	89° 30'	+1.6	-8.5		667.9		+163	-86	1,183,322	255,853	
24	511		326° 35'	--	9.7	90° 30'	-4.5	-14.2		662.2		+424	-286	1,183,583	255,653	
25	840		323° 50'	--	7.3	90° 30'	-7.3	-14.6		661.8		+673	-503	1,183,832	255,436	
26	1170		322° 42'	--	4.8	90° 30'	-10.2	-15.0		661.4		+923	-719	1,184,082	255,220	
27	1498		322° 10'	--	11.8	-		-11.8		664.6		+1173	-931	1,184,332	255,008	
18	1510		321° 45' 23"	--	11.3	-		-11.3		665.1	18	+1176	-947	1,184,335	254,992	18 → 1,184,330 x = 254,985 18 T-Inter.

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
5-1-85		B. Cotcamp		K. Greenfield		6834		[Signature]		24	3						
AREA		TOPO MAP S.W.		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
GEORGIA		NEWMAN - 7 1/2'		G.A.	HEARD					W. Cassidy							
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS	
												LAT.	DEP.	Y	X		
									676.4								
28	1828		322° 05'	-0.6	5.0	-		-5.0		671.4		+1430	-1138	1,184,589	254,901		
TP	2011		322° 13' 53"	--	7.5	TH	+10.1	+2.6		679.0	TP	+1577	-1248	1,184,736	254,691		
TP	2011				7.6	TH _{270°}	+10.1	+2.5			TP						
	1256		177° 36' 03"	--+	7.5	91° 10'	+25.6	+33.1	712.1		BS	+1254	-66				
	1256			+	7.6	268° 50'	+25.6	+33.2			BS						
29	1102		178° 20'	-0.6	8.7	91° 10'	-22.4	-31.1		681.0		-1101	+44	1,184,889	254,669		
30	775		179° 20'	--	5.9	91° 10'	-15.8	-21.7		690.4		-775	+17	1,185,215	254,642		
31	447		176° -	--	10.8	90° 10'	-1.3	-12.1		700.0		-446	+36	1,185,544	254,661		
PI	391		176° 40' 33"	--	9.2	90° 10'	-1.1	-10.3		701.8	PI	-390	+27	1,185,600	254,652	PI 1,185,560 x-254,630 y-inter	
32	118		169° 55'	--	6.0	-		-6.0		706.1		-116	+22	1,185,874	254,647		
PI	0				5.1	-		-5.1		707.0	PI	0	0	1,185,990	254,625		
33	212		341° 50'	-0.6	5.3	TH	+1.1	-4.2		707.9		+201	-68	1,186,191	254,557		
34	541		338° -	--	6.7	TH	+2.7	-4.0		709.1		+499	-208	1,186,489	254,419		
35	870		336° 05'	--	4.7	TH	+4.4	-0.3		711.8		+792	-361	1,186,782	254,264		
36	1199		335° 30'	--	10.1	89° -	+20.9	+10.8		722.9		+1086	-509	1,187,076	254,116		
37	1528		334° 30'	--	6.2	88° 50'	+31.1	+24.9		737.0		+1372	-672	1,187,362	253,953		
TP	1722		332° 55' 14"	--	5.1	88° 50'	+35.1	+30.0	742.1		TP	+1525	-800	1,187,515	253,825		
TP	1722				5.2	271° 10'	+35.1	+29.9			TP						

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
5-1-85		B. Cotcamp		K. Greenfield		6834		JWK		24	4					
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER						
Georgia		NEWMAN S.W. 7 1/2		G.A.	HEARD					W. Cassidy						
STATION NO.	SLOPE 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	
										742.1						
	1120		134° 40' 53"	-0.6	+7.1	89° 30'	-9.8	-2.7	739.4		BS	+779	-805			
	1120				+7.2	270° 30'	-9.8	-2.6		BS						
38	989		134° 55'	--	8.1	89° 20'	+9.8	+1.7		741.1		-691	+708	1,187,603	253,728	
39	659		135° 55'	--	6.7	89° 20'	+7.7	+1.0		740.4		-469	+463	1,187,825	253,483	
40	329		136° 10'	--	6.0	89° 20'	+3.8	-2.2		737.2		-235	+230	1,188,059	253,250	
41	0				5.1	-		-5.1		734.3	TP	0	0	1,188,294	253,020	ACROSS STA.
42	332		325° 50'	-0.6	8.2	-		-8.2		731.2		+273	-189	1,188,567	252,531	
43	662		323° 30'	--	11.0	-		-11.0		728.4		+528	-399	1,188,822	252,621	
44	991		323° 10'	--	6.9	-		-6.9		732.5		+787	-602	1,189,081	252,418	
45	1321		323° 20'	--	11.0	89° 20'	+15.4	+4.4		743.8		+1051	-800	1,189,345	252,220	
46	1650		323° 55'	-0.6	7.0	89° 16'	+24.0	+17.0		756.4		+1323	-986	1,189,617	252,034	
47	1980		324° 20'	--	6.0	89° 00'	+34.6	+28.6		768.0		+1596	-1171	1,189,890	251,849	
48	2310		324° 30'	--	9.7	89° 00'	+40.3	+30.6		770.0		+1866	-1361	1,190,160	251,659	
49	2640		324° 38'	--	13.0	89° 07'	+40.7	+27.7		767.1		+2137	-1551	1,190,431	251,469	
TP	2735		324° 34' 57"	-0.4	12.1	89° 08'	+41.4	+29.3	768.7		TP	+2218	-1600	1,190,512	251,420	
TP	2735				13.6	270° 54'	+43.0	+29.4		TP						
	2672		169° 42' 38"	--	+7.4	90° 50'	+38.9	+46.3	815.0		BS	+2625	-496			
	2672				+7.3	269° 10'	+38.9	+46.2		BS						
IF	2523		169° 39' 55"	--	6.2	91° -	-44.0	-50.2		764.8	IF	-2478	+470	1,190,659	251,394	J-1,190,655 X-251,395 T-Inter. E.L. 764.0

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DATE 5-1-85	INSTRUMENT MAN B. Cotcamp	ROD MAN K. Greenfield	PARTY NUMBER 6834	NOTES CHECKED BY JWB	LINE NO. 24	PAGE 5
AREA Georgia	TOPO MAP S.W. NEWNAN-76'	STATE G.A.	COUNTY HEARD	TWP	RANGE	PPM
				PARTY MANAGER W. Cassidy		

STATION NO.	SLOPE DISTANCE	PLOTTING 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			
									815.0									
50	2425		169° 50'	-0.4	9.2	91° -	-42.3	-51.5		763.5		-2384	+445	1,190,753	251,369			
51	2096		170° 10'	--	6.5	91° 10'	-42.7	-49.2		765.8		-2063	+372	1,191,074	251,296			
52	1766		- -	--	6.3	91° 10'	-36.0	-42.3		772.7		-1738	+314	1,191,399	251,238			
53	1436		170° 20'	--	6.2	91° 10'	-29.2	-35.4		779.6		-1414	+251	1,191,723	251,175			
54	1106		170° 25'	-0.4	5.8	91° 10'	-22.5	-28.3		786.7		-1089	+192	1,192,048	251,116			
55	776		171° -	--	5.7	91° 10'	-15.8	-21.5		793.5		-766	+127	1,192,371	251,051			
56	446		172° 05'	--	5.4	91° 10'	-9.1	-14.5		800.5		-441	+65	1,192,696	250,989			
57	116		174° 15'	--	5.7	91° 10'	-2.4	-8.1		806.9		-115	+12	1,193,022	250,936			
TP	0				5.1	-		-5.1		809.9	TP	0	0	1,193,137	250,924			
58	214		2° 40'	-0.4	6.6	88° 30'	+5.6	-1.0		814.0		+214	+8	1,193,351	250,932			
59	543		5° 40'	--	6.3	89° 10'	+7.9	+1.6		816.6		+541	+50	1,193,678	250,974			
60	873		5° 50'	--	12.1	89° 40'	+5.1	-7.0		808.0		+869	+83	1,194,006	251,007			
TP	924		5° 50' 09"	-0.3	15.0	89° 10'	+5.4	-9.6		805.4	TP	+920	+89	1,194,057	251,013			
TP	924				14.9	270° 20'	+5.4	-9.5			TP							
	606		164° 57' 50"	-- +	6.8	87° 30'	-26.4	-19.6	785.8		BS	+584	-160					
	606			+	5.0	87° 40'	-24.7	-19.7			BS							
61	330		159° 58'	--	9.1	87° -	+17.2	+8.1		793.9		-309	+115	1,194,332	250,968			
62	0				5.1	-		-5.1		780.7	TP	0	0	1,194,641	250,853			
63	330		335° 50'	-0.3	8.1	-		-8.1		777.7		+300	-137	1,194,941	250,716			

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-1-85		B. Cotcamp		K. Greenfield		6834		KLG		24		6			
AREA		TOPO MAP S.W.		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		NEWMAN - 7 1/2'		GA.		HEARD								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									785.8						
64	660		335° 45'	-0.3	10.5	88° 40'	+15.4	+4.9		790.7		+600	-274	1,195.241	250,579
65	990		- - -	--	6.2	88° 30'	+25.9	+19.7		805.5		+901	-411	1,195.542	250,442
TP	1143		335° 07' 44"	--	8.0	88° 30'	+29.9	+21.9		807.7	TP	+1034	-486	1,195.675	250,367
TP	1143				7.9	271° 30'	+29.9	+22.6			TP				
	835		159° 06' 42"	-0.3 +	8.0	89° -	-14.6	-6.6	801.1		BS	+778	-302		
	835			+	5.5	89° 10'	-12.1	-6.6			BS				
66	658		159° 10'	--	6.3	89° -	+11.5	+5.2		806.3		-614	+237	1,195.839	250,302
67	330		161° 50'	--	5.7	89° -	+5.8	+0.1		801.2		-313	+105	1,196,140	250,170
68	0				5.1	-		-5.1		796.0	T	0	0	1,196,453	250,065
69	330		349° 50'	-0.3	10.1	-		-10.1		791.0		+325	-60	1,196,778	250,005
70	658		353° 10'	--	16.9	-		-10.9		790.2		+653	-82	1,197,106	249,983
71	986		354° 40'	--	5.2	-		-5.2		795.9		+981	-97	1,197,434	249,968
72	1316		355° 10'	--	7.5	89° 30'	+11.5	+4.0		805.1		+1311	-118	1,197,764	249,947
73	1646		- - -	--	7.1	89° 20'	+19.1	+12.0		813.1		+1639	-147	1,198,092	249,918
74	1974		353° 56' 40"	--	6.4	89° 30'	+17.2	+10.8		811.9	TP	+1962	-219	1,198,415	249,846
74	1974				6.3	270° 30'	+17.2	+10.9			TP				
	1591		165° 44' 30"	-0.3 +	1.5	89° 14'	-21.3	-19.8	792.1		BS	+1540	-400		
	1591			+	1.4	270° 46'	-21.3	-19.9			BS				
75	1261		166° -	--	6.7	89° 20'	+14.7	+8.0		800.1		-1222	+311	1,198,733	249,767
76	931		166° 05'	--	6.3	-		-6.3		785.8		-902	+229	1,199,053	249,675

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DATE	5-1-85	INSTRUMENT MAN	B. Cotcamp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY		LINE NO.	24	PAGE	7	
AREA	GEORGIA	TOPO MAP	SW. NEWMAN - 7 1/2'	STATE	G.A.	COUNTY	MEARO	TWP		RANGE		PPM	PARTY MANAGER	W. Cassidy

STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									792.1					
77	601		116° 25'	-0.3	12.7	BH	-3.0	-15.7		776.4		-583	+144	1,199,372 249,590
78	273		165° 05'	--	7.2	92°	-9.5	-16.7		775.4		-263	+72	1,199,692 249,518
π	0				5.1	-		-5.1		787.0	π	0	0	1,199,955 249,446
79	87		41° 05'	--	8.1	-		-8.1		784.0		+66	+57	1,200,021 249,503
#	301		12° 28' 06"	--	1.0	-		-1.0		791.1	#	+294	+63	1,200,249 249,509 # ^{is -1,200,280 x -249,540} power line
80	404		12° 10'	--	6.7	88° 50'	+8.2	+1.5		793.6		+395	+83	1,200,350 249,529
81	733		11° 35'	--	6.1	88° 40'	+17.0	+10.9		803.0		+719	+143	1,200,674 249,589
TP	917		12° 51' 48"	--	10.5	88° 24'	+25.6	+15.1		807.2	TP	+895	+199	1,200,850 249,645
TP	917				11.5	88° 20'	+26.7	+15.2			TP			
	1316		196° 48' 38"	-0.3	8.6	90° 40'	+15.3	+23.9	831.1		BS	+1262	+374	
	1316				8.5	269° 20'	+15.3	+23.8			BS			
82	1173		195° 55'	--	11.7	90° 30'	-10.2	-21.9		809.2		-1130	-316	1,200,982 249,703
83	844		194° 55'	--	11.0	90° 30'	-7.4	-18.4		812.7		-817	-213	1,201,295 249,806
84	516		196° 05'	--	6.9	90° 30'	-4.5	-11.4		819.7		-497	-140	1,201,615 249,879
85	188		200° 40'	--	6.2	-		-6.2		824.9		-176	-65	1,201,936 249,954
π	0				5.1	-		-5.1		826.0	π	0	0	1,202,112 250,019
Bm	37		330° 04' 44"	-0.3	3.9	-		-3.9		827.2	Bm	+32	-19	1,202,144 250,000 ^{is -1,202,165 x -250,035} U.S.G.S Bm. E.L. 107.2
86	149		46° 38'	--	10.8	91°	-2.6	-13.4		817.7		+103	+108	1,202,215 250,127
87	479		--	--	11.2	BH	-2.4	-13.6		817.5		+331	+346	1,202,443 250,365
88	809		--	--	10.0	BH	-4.0	-14.0		817.1		+559	+585	1,202,671 250,604

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE					
5-1-85		B. Cotcamp		K. Greenfield		6834				24		8					
AREA		TOPO MAP S.W.		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER			
GEORGIA		NEWMAN - 7 1/2'		G.A.		Heard								W. Cassidy			
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS			
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X	
89	1139		46° 35'		11.4	-		-11.4		819.7		+ 787	+ 823	1,202,899	250,842		
90	1468		46° 20' 22"	-0.3	14.2	90° 26'	-11.1	-25.3	792.9	805.8	TP	+1019	+1057	1,203,131	251,076		
90	1468				15.0	90° 24'	-10.2	-25.2		TP							
	452		199° 25' 26"	--	+ 2.9	88° 10'	-15.8	-12.9		BS			+427	+148			
	452				+ 1.6	88° 10'	-14.5	-12.9	BS								
91	132		185° 50'	--	6.7	87° 10'	+6.5	-0.2		792.7		- 131	- 13	1,203,427	251,211		
TP	0				5.1	-		-5.1		787.8	TP	0	0	1,203,558	251,224		
92	198		2° 35'	-0.3	9.2	91° 10'	-4.0	-13.2		779.7		+ 198	+ 8	1,203,756	251,232		
93	528		- -	--	12.0	91° 10'	-10.8	-22.8		770.1		+528	+ 21	1,204,086	251,245		
94	858		- -	--	9.1	91° 10'	-17.5	-26.6		766.3		+857	+34	1,204,415	251,258		
95	1188		2° 35'	--	4.0	91° 10'	-24.2	-28.2		764.7		+1187	+47	1,204,745	251,271		
96	1518		- -	-	8.0	90° 30'	-13.3	-21.3		771.6		+1517	+60	1,205,075	251,284		
97	1842		4° 17' 32"	-	11.5	90° 10'	-5.4	-16.9	827.5	776.0	TP	+1838	+128	1,205,396	251,352		
97	1842				11.4	269° 50'	-5.4	-16.8		TP							
	1073		204° 11' 50"	-0.3	+14.1	92°	+37.4	+51.5	827.5		BS	+980	+434				
	1073				+ 11.0	92° 10'	+40.6	+51.6		BS							
98	744		204° 05'	--	10.3	93° 10'	-41.0	-51.4		776.8		- 681	- 300	1,205,695	251,486		
99	415		201° 05'	--	11.9	93° 10'	-22.9	-34.8		792.7		- 388	- 147	1,205,988	251,639		
100	87		198° 10'	--	6.3	92° 10'	-3.3	-9.6		817.9		- 83	- 27	1,206,293	251,759		
TP	0				5.1	-		-5.1		822.4	TP	0	0	1,206,376	251,786		
IF	133		336° 58' 04"	--	5.0	85° 10'	+11.2	+6.2		833.7	IF	+122	- 52	1,206,498	251,734	IF 1,206,500 x -251,745 TP - Inter.	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-1-85		B. Cotamp		K. Greenfield		6834		KWB		24		9			
AREA		TOPO MAP No.		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		NEWMAN-7 1/2		G.A.		HEARD								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									827.5						
101	250		339° 50'	-0.3	5.0	85° 10'	+21.1	+16.1		843.6		+234	-87	1,206,610	251,699
102	517		332° 25'	--	6.3	85° 10'	+48.6	+42.3		869.8		+510	-270	1,206,886	251,516
TP	656		331° 42' 30"	--	6.7	85° 30'	+51.5	+44.8		872.3	TP	+574	-313	1,206,950	251,473
TP	656				6.6	274° 30'	+51.5	+44.9			TP				
	895		149° 35' 48"	-0.3	7.1	BH	+4.5	+11.6	883.9		BS	+770	-457		
	895				+6.4	90° 20'	+5.2	+11.6			BS				
103	645		151° -	--	10.3	-		-10.3		873.6		-562	+316	1,207,158	251,372
104	317		154° 10'	--	8.6	-		-8.6		875.3		-285	+140	1,207,435	251,156
T	0				5.1	-		-5.1		878.8	T	0	0	1,207,720	251,016
105	50		56° 45'	-0.3	5.0	-		-5.0		878.9		+28	+42	1,207,748	251,058
106	353		357° 15'	--	5.9	88° -	+12.3	+6.4		890.3		+353	-19	1,208,073	250,997
107	683		359° 25'	--	8.3	88° -	+23.8	+15.5		899.4		+683	-11	1,208,403	251,005
TP	898		0° 08' 34"	--	14.8	88° -	+31.3	+16.5		900.4	TP	+897	-2	1,208,617	251,014
TP	898				7.0	88° 30'	+23.5	+16.5			TP				
	882		187° 38' 37"	-0.3	13.8	BH	+4.4	+18.2	918.6		BS	+875	+113		
	882				+10.5	90° 30'	+7.7	+18.2			BS				
108	767		187° 30'	--	8.7	90° 40'	+8.9	-17.6		901.0		-761	-96	1,208,731	251,031
109	438		188° 50'	--	6.3	90° 40'	-5.1	-11.4		907.2		-433	-65	1,209,059	251,062
H	206		195° 07' 46"	--	5.9	-		-5.9		912.7	H	-199	-53	1,209,293	251,074
110	108		192° 15'	-	5.3	-		-5.3		913.3		-106	-22	1,209,386	251,105

1,209,250 X - 251,070
Trail

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
5-1-85		B. Gtcamp		K. Greenfield		6834		1306		24		10				
AREA		TOPO MAP SW		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
GEORGIA		NEW HAN-7 1/2'		G.A.		MEARD								W. Cass, Aug		
STATION NO.	SLOPE DISTANCE	PLOTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
									918.6							
π	0				5.1	-		-5.1		913.5	π	0	0	1,209,492	251,127	
111	221		8° 40'	-0.3	8.9	-		-8.9		909.7		+ 219	+ 32	1,209,711	251,159	
112	545		359° 45'	--	5.6	-		-5.6		913.0		+ 545	- 5	1,210,037	251,122	
113	874		358° 23' 40"	--	3.0	TH	+4.4	+1.4	} 909.0	920.0	TP	+874	-29	1,210,366	251,098	
113	874				2.9	TH 270°	+4.4	+1.5				TP				
	1649		182° 53' 39"	-- +	3.4	89° 30'	-14.4	-11.0				BS	+1647	+75		
	1649			+ 3.3	270° 30'		-14.4	-11.1			BS					
114	1319		183° 10'	-0.3	5.1	89° 30'	+11.5	+6.4		915.4		-1317	-66	1,210,696	251,107	
115	989		-	--	8.2	89° 30'	+8.6	+0.4		909.4		-988	-49	1,211,025	251,124	
116	659		182° 50'	--	9.1	-		-9.1		899.9		-658	-29	1,211,355	251,144	
117	330		181° 15'	--	10.9	-		-10.9		898.1		-330	-5	1,211,683	251,168	
118	0				5.1	-		-5.1		903.9	π	0	0	1,212,013	251,173 across str.	
119	334		16° 20'	-0.3	8.7	91° 40'	-9.7	-18.4		890.6		+ 321	+92	1,212,334	251,265	
120	662		13° 15'	--	11.9	91° 50'	-21.2	-33.1		875.9		+645	+148	1,212,658	251,321	
121	992		-	--	4.8	91° 50'	-31.7	-36.5		872.5		+967	+222	1,212,980	251,395	
122	1322		13° 45'	--	4.8	91° 40'	-38.4	-43.2		865.8		+1286	+307	1,213,299	251,480	
123	1652		14° 05'	--	10.0	91° 40'	-48.0	-58.0		851.0		+1604	+394	1,213,617	251,567	
124	1982		-	--	10.9	91° 40'	-57.6	-68.5		840.5		+1925	+472	1,213,938	251,645	
125	2310		13° 50'	--	10.2	91° 40'	-67.2	-77.4		831.6		+2246	+541	1,214,259	251,714	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE							
5-1-85		B. Cotcamp		K. Greenfield		6834		[Signature]		24	11							
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER								
GEOR914		NEWNAM SW 1/4		G.A.	Coweta					W. Cassidy								
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH +	EAST +	COORDINATES		REMARKS		
												SOUTH -	WEST -	Y	X			
													LAT.	DEP.	Y	X		
									909.0									
TP	2436	2435.0	13° 28' 35"	-0.3	8.6	91° 10'	-70.9	-79.5	829.5	829.5	TP	+2371	+555	1,214,384	251,727			
TP	2436				8.5	268° 20'	-70.9	-79.4			TP							
	643		173° 24' 58"	--	+14.5	BM	+3.2	+17.7	847.2	847.2	BS	+638	-77					
	643				+6.5	91° -	+11.2	+17.7			BS							
126	444		171° 30'	--	7.1	91° -	-7.7	-14.8		832.4		-439	+68	1,214,583	251,717			
127	114		169° 35'	--	5.0	-		-5.0		842.2		-112	+21	1,214,910	251,670			
X	0				5.1	-		-5.1		842.1	X	0	0	1,215,022	251,649			
128	220		10° 05'	-0.3	5.3	91° -	-3.8	-9.1		838.1		+217	+37	1,215,239	251,686			
#	368		7° 05' 18"	--	3.6	91° -	-6.4	-10.0		837.2	#	+365	+43	1,215,387	251,692	LL 4 - 1,215,400 x - 251,725 TP 4 way inter.		
TP	508		16° 58' 34"	--	6.8	91° -	-8.9	-15.7	831.5	831.5	TP	+499	+94	1,215,521	251,742			
TP	508				5.3	91° 10'	-10.3	-15.6			TP							
	2958		200° 00' 57"	-0.4	+11.6	-		+11.6	843.1	843.1	BS	+2786	+993					
	2958				+11.3	-270°		+11.3			BS							
129	2916		199° 45'	--	12.4	-		-12.4		830.7		-2751	-966	1,215,556	251,768			
130	2587		199° 20'	--	12.3	-		-12.3		830.8		-2447	-839	1,215,860	251,895			
131	2257		199° 35'	--	7.2	90° 10'	-6.6	-13.8		829.3		-2132	-742	1,216,175	251,992			
132	1927		-	--	6.1	90° 10'	-5.4	-11.7		831.4		-1820	-633	1,216,487	252,101			
133	1597		-	--	4.7	90° 10'	-4.6	-9.3		833.8		-1508	-525	1,216,799	252,209			
#	1325		200° 00' 39"	--	7.7	90° 20'	-7.7	-15.4		827.7	#	-1248	-445	1,217,059	252,289	LL 4 - 1,217,050 x - 252,300 pipe line el. 827.0		

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-1-85		B. C. Camp		K. Greenfield		6834		JWC		24		12			
AREA		TOPO MAP S.W.		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		NEWNAN - 7 1/2'		G.A.		Coweta.								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									843.1						
134	1267		199° 35'	-0.4	9.8	90° 20'	-7.4	-17.2		825.9		-1197	-416	1,217,110	252,318
135	937		- -	--	6.3	91° -	-16.4	-22.7		820.4		-885	-308	1,217,422	252,424
136	607		- -	--	8.8	91° -	-10.6	-19.4		823.7		-573	-199	1,217,734	252,535
137	277		- -	--	9.0	-		-9.0		834.1		-262	-91	1,218,045	252,643
TP	0				5.1	-		-5.1		838.0	TP	0	0	1,218,307	252,734
138	53		20° 50'	-0.4	7.2	-		-7.2		835.9		+50	+19	1,218,357	252,753
139	382		20° 40'	--	11.2	91° -	-6.7	-17.9		825.2		+358	+132	1,218,665	252,866
140	712		21° 10'	--	7.7	91° -	-12.4	-20.1		823.0		+666	+252	1,218,973	252,986
141	1042		21° 25'	--	8.8	BH	-5.2	-14.0		829.1		+973	+374	1,219,280	253,108
142	1372		21° 35'	-0.4	7.2	BH	-6.9	-14.1		829.0		+1279	+496	1,219,586	253,230
IF	1395		21° 08' 36"	--	6.6	BH	-7.0	-13.6		827.5	IF	+1305	+494	1,219,612	253,228
143	1702		21° 40'	--	6.3	-		-6.3		836.8		+1586	+617	1,219,893	253,351
144	2032		21° 50'	--	12.7	89° 50'	+5.9	-6.8		836.3		+1891	+743	1,220,198	253,477
TP	2101		22° 01' 35"	--	14.6	89° 50'	+6.1	-8.5		834.6	TP	+1953	+774	1,220,260	253,507
TP	2101				14.5	270° 10'	+6.1	-8.4			TP		-1		
	1164		198° 10' 15"	-0.4	4.4	-		+4.4	839.0		BS	+1108	+355		
	1164				4.3	270° -		+4.3			BS		-1		
145	906		196° 15'	--	9.7	-		-9.7		829.3		-872	-247	1,220,496	253,614
146	579		192° 50'	--	11.0	-		-11.0		828.0		-565	-125	1,220,803	253,736
147	251		188° 15'	--	8.1	-		-8.1		830.9		-249	-34	1,221,119	253,827

IF - 1,219,612 X - 253,230
IF T-inter EL. 829.0

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	5-1-85	INSTRUMENT MAN	B. Cotcamp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	OK	LINE NO.	24	PAGE	13
AREA	GEORGIA	TOPO MAP	S.W. NEWNAN-7 1/2'	STATE	G.A.	COUNTY	COWETA	TWP		RANGE	PPM	PARTY MANAGER	W. Cassady

STATION NO.	SLOPE DISTANCE	PLOTTING 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.	
									839.0					
K	0				5.1	-		-5.1		833.9	K	0	0	1,221,368 253,861
148	80		359° 50'	-0.4	5.5	89° 10'	+11.2	-4.3		834.7		+80	-1	1,221,448 253,860
149	409		- -	--	5.6	89° 10'	+5.9	+0.3		839.3		+409	-4	1,221,777 253,857
150	739		- -	--	5.8	89° 10'	+10.7	+4.9		843.9		+739	-7	1,222,107 253,854
151	1069		- -	--	9.9	89° 10'	+15.5	+5.6		844.6		+1069	-11	1,222,437 253,850
#1	1142		359° 21 10'	-0.4	10.8	89° 10'	+16.6	+5.8		844.8	#1	+1142	-21	1,222,510 253,840 T-Inter El. 844.0
152	1399		359° 50'	--	11.2	89° 10'	+20.3	+9.1		848.1		+1399	-14	1,222,767 253,847
153	1729		- -	--	7.5	89° 10'	+25.1	+17.6		856.6		+1729	-17	1,223,097 253,844
154	2059		- -	-0.4	6.7	89° 10'	+29.9	+23.2		862.2		+2059	-20	1,223,427 253,841
155	2389		0° 00'	--	10.3	89° 10'	+34.7	+24.4		863.4		+2389	-17	1,223,757 253,844
156	2718		0° 20'	--	9.7	89° 10'	+39.5	+29.8		868.8		+2718	-3	1,224,086 253,858
TP	2884		0° 17 06	-0.5	8.5	89° 10'	+41.9	+33.4		872.4	TP	+2884	-11	1,224,252 253,849
TP	2884				5.0	89° 14'	+38.6	+33.6	+33.5		TP		-1	
	2477		196° 45 15	--	6.0	89° 30'	-21.6	-15.6	856.8		BS	+2378	+693	
	2477				5.9	270° 30'	-21.6	-15.7			BS		-1	
157	2307		196° 40'	--	6.0	89° 30'	+20.1	+14.1		870.9		-2216	-642	1,224,414 253,899
158	1978		196° 50'	--	7.7	89° 40'	+11.5	+3.8		860.6		-1898	-556	1,224,732 253,985
159	1648		197° 05'	--	12.8	TH	+8.2	-4.6		852.2		-1579	-470	1,225,051 254,071
160	1318		197° 30'	--	11.6	TH	+6.6	-5.0		851.8		-1260	-385	1,225,370 254,156
161	989		197° 45'	--	6.5	TH	+4.9	-1.6		855.2		-945	-293	1,225,685 254,248

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-1-85		B. Cotcamp		K. Greenfield		6834		JWt		24		14			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		NEWNAN-7 1/2'		G.A.		Coweta								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									856.8						
162	657		197° 25'	-0.5	10.6	-		-10.6		846.2		-630	-192	1,226,000	254,349
163	330		194° 55'	--	12.3	-		-12.3		844.5		-320	-82	1,226,310	254,459
164	0				5.1	-		-5.1		851.7	TP	0	0	1,226,630	254,541
165	331		22° 05'	--	9.1	92° 30'	-14.4	-23.5		833.3		+308	+122	1,226,938	254,663
166	660		20° 50'	--	9.8	92°	-23.0	-32.8		824.0		+619	+229	1,227,249	254,770
167	990		20° 10'	-0.5	11.2	90° 40'	-11.5	-22.9		834.1		+932	+333	1,227,562	254,874
168	1320		19° 50'	--	11.2	BH	-6.6	-17.8		839.0		+1246	+437	1,227,876	254,978
TP	1593		18° 12' 54"	--	5.9	BH	-8.0	-13.9	}	842.9	TP	+1517	+485	1,228,147	255,025
TP	1593				5.8	BH 270°	-8.0	-13.8		TP				-1	
	1259		180° 17' 11"	-0.5	10.5	BH	+6.3	+16.8	}	859.7	BS	+1259	-5		
	1259				10.4	BH 270°	+6.3	+16.7		BS				-1	
169	1206		180° 15'	--	9.5	BH	-6.0	-15.5		844.2		-1206	+5	1,228,200	255,024
170	876		179° 40'	--	10.4	-		-10.4		849.3		-876	+13	1,228,530	255,032
171	546		178° 05'	--	7.9	-		-7.9		851.8		-546	+23	1,228,860	255,042
172	267		175° 20' 59"	--	4.6	-		-4.6		855.1	1/4	-266	+24	1,229,140	255,043
172	219		171° 40'	--	5.3	TH	+1.1	-4.2		855.5		-216	+34	1,229,190	255,053
TP	0				5.1	-		-5.1		854.6	TP	0	0	1,229,406	255,019
173	120		18° -	-0.5	8.0	-		-8.0		851.7		+114	+36	1,229,520	255,055
174	446		6° 50'	--	11.1	BH	-2.2	-13.3		846.4		+443	+49	1,229,849	255,068
175	775		5° 05'	--	6.8	91°	-13.5	-20.3		839.4		+773	+62	1,230,179	255,081

ACROSS STA.

NEWNAN S.W. - 7 1/2' ↑
Whites Burg - 7 1/2' ↓
1,229,135 x 255,035
1/4 way inter

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
5-1-85		B. Cotcamp		K. Greenfield		6834		MCC		24	15						
AREA		TOPOGRA		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
GEORGIA		NEWNAN		G.A.	Coweta					W. Cassidy							
STATION NO.	SLOPE DISTANCE	PLOTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS	
												LAT.	DEP.	Y	X		
									859.7								
176	1105		5° 30'	-0.5	11.8	BH	-5.5	-17.3		842.4		+1101	+96	1,230,507	255,115		
177	1434		5° 49' 30"	-0.4	9.7	89° 54'	+2.5	-7.2		852.5	TP	+1428	+136	1,230,834	255,154		
177	1434				9.6	270° 06'	+2.5	-7.1			TP		-1				
	947		186° 26' 02"		+2.0	-		+2.0		854.5	BS	+942	+100				
	947				+6.8	TH	-4.7	+2.1			BS		-1				
178	617		184° 30'	-0.4	6.2	TH	+3.1	-3.1		851.4		-615	-44	1,231,161	255,209		
179	288		182° 05'		5.8	-		-5.8		848.7		-288	-8	1,231,488	255,245		
TP	0				5.1	-		-5.1		849.4	TP	0	0	1,231,776	255,253		
180	42		352° -		6.0	88° -	+1.5	-4.5		850.0		+42	-6	1,231,818	255,247		
181	370		341° 30'		6.9	89° -	+6.5	-0.4		854.1		+350	-120	1,232,126	255,133		
182	698		339° 10'		3.8	89° -	+12.2	+8.4		862.9		+651	-253	1,232,427	255,000		
TP	969		346° 01' 38"	-0.4	5.9	88° 50'	+19.7	+13.8		868.3	TP	+908	-337	1,232,684	254,915		
TP	969				8.7	88° 40'	+22.5	+13.8			TP		-1				
	387		163° 33' 51"		+6.7	90° -		+6.7		875.0	BS	+370	-112				
	387				+4.8	BH	+1.9	+6.7			BS		-1				
183	330		162° 40'		7.1	-		-7.1		867.9		-314	+101	1,232,740	254,903		
184	0				5.1	-		-5.1		869.9	TP	0	0	1,233,054	254,802		
185	326		320° 20'		4.8	-		-4.8		870.2		+249	-210	1,233,303	254,592		
TP	480		322° 21' 18"		4.1	-		-4.1		870.9	TP	+378	-296	1,233,434	254,505		
TP	480				6.5	TH	+2.4	-4.1			TP	+2	-1				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-2-85		B. Cotcamp		K. Greenfield		6834		JWB		2		16			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Georgia		New Whitesburg 7 1/2		G.A.		Coweta								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									870.9						
505			161 26 52	-0.4	5.6	TH	-2.5	+3.1	874.0		BS	+478	-164		
505					11.9	89-	-8.8	+3.1		BS	+2				
186	330		160 40	--	8.8	89-	+5.8	-3.0	871.0			-311	+111	1,233,603	254,452
187	143		161 22 21	--	2.5	89-	+2.5	±0.0	874.0	HI	-135	+47		1,233,779	254,388
187	0				5.1	-		-5.1	868.9	K	0	0		1,233,914	254,341
188	330		307 50	-0.4	5.7	-		-5.7	868.3			+201	-262	1,234,115	254,079
189	658		302 30	--	7.1	TH	+3.3	-3.8	870.2			+350	-557	1,234,264	253,784
190	987		300 50	--	5.0	TH	+4.9	-0.1	873.9			+500	-851	1,234,414	253,490
191	1317		300 03 51	--	7.4	TH	+6.6	-0.8	873.2		TP	+652	-1144	1,234,568	253,197
191	1317				4.7	89 50	+3.8	-0.9		TP	+2				
	1462		122 58 21	-0.4	5.4	89 20	-17.0	-11.6	861.6		BS	+787	-1232		
	1462				5.3	270 40	-17.0	-11.7		BS	+2				
192	1132		123 18	--	5.3	89 40	+6.6	+1.3	862.9			-615	+950	1,234,742	252,915
193	802			--	9.2	89 40	+4.7	-4.5	857.1			-436	+673	1,234,921	252,638
194	472			--	4.0	89 40	+2.7	-1.3	860.3			-256	+396	1,235,101	252,361
195	144		119 30	--	5.0	89 40	+0.8	-4.2	857.4			-70	+126	1,235,287	252,091
196	76		59 21 21	--	5.0	89 40	+0.4	-4.6	857.0	TP	+39	+65		1,235,396	252,030
196	0				5.1	-		-5.1	856.5	K	0	0		1,235,357	251,965
196	210		346 40	-0.4	6.0	89 40	+1.2	-4.8	856.8			+204	-50	1,235,561	251,915
197	540			--	8.3	89 -	+9.4	+1.1	862.7			+525	-128	1,235,882	251,837

4-1233,740 x 254,405
HI T - Inter. EL. 874.0

1-1235,365 x 251,980
TP T - Inter

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-2-85		B. Cotcamp		K. Green		6834		[Signature]		[Signature]		77			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		Whitesburg-7 1/2'		G.A.		Coweta								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOTTING 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
									861.6						
198	870		346 40	-0.4	5.8	89 -	+15.2	+7.4		871.0		+845	-207	1,236,202	251,758
199	1200		- -	--	8.5	88 40	+27.9	+19.4		881.0		+1166	-285	1,236,523	251,680
200	1529		347 30	--	9.8	88 40	+35.6	+25.8		887.4		+1490	-341	1,236,847	251,624
TP	1684		347 48 18	-0.6	11.1	88 40	+39.2	+28.1		889.7	TP	+1642	-373	1,237,001	251,592
TP	1684				11.0	271 20	+39.2	+28.2			TP	"			
	2034		190 27 02	--	+7.1	91 50	+65.1	+72.2	961.9		BS	+2003	+348		
	2034				+7.0	268 10	+65.1	+72.1			BS	"			
201	1856		170 20	-0.6	9.7	91 50	-59.4	-69.1		892.8		-1829	-314	1,237,177	251,626
202	1526		189 50	--	5.7	91 50	-48.8	-54.5		907.4		-1506	-245	1,237,500	251,695
203	1196		189 15	--	5.3	91 50	-38.2	-43.5		918.4		-1182	-180	1,237,824	251,760
204	866		188 -	-	9.8	91 50	-27.7	-37.5		924.4		-859	-112	1,238,147	251,828
205	537		186 30	--	10.3	91 50	-17.2	-27.5		934.4		-534	-55	1,238,472	251,885
206	209		185 35	-	10.7	91 50	-6.7	-17.4		944.5		-208	-18	1,238,798	251,922
TA	0				5.1	-		-5.1		956.8	TA	0	0	1,239,006	251,940
207	126		349 30	-0.6	6.0	88 20	+3.7	-2.3		959.6		+124	-24	1,239,130	251,916
208	455		354 30	-	13.0	89 36	+3.2	-9.8		952.1		+452	-48	1,239,458	251,992
209	783		352 45	--	10.7	-		-10.7		951.2		+776	-107	1,239,782	251,833
TP	1009		349 45 03	-	2.5	-		-2.5		959.4	TP	+991	-190	1,239,999	251,750
TP	1009				7.6	TH	+5.0	-2.6			TP	"			

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 5-2-85	INSTRUMENT MAN B. Cotamp	ROD MAN K. Greenfield	PARTY NUMBER 6834	NOTES CHECKED BY <i>[Signature]</i>	LINE NO. 24	PAGE 18
AREA Georgia	TOPO MAP Whitesburg-7 1/2	STATE G.A.	COUNTY Coweta	TWP -	RANGE -	PPM -
				PARTY MANAGER W. Cassidy		

STATION NO.	SLOPE 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			
										959.4								
	570		161 00 31	-0.6	11.7	-		+11.7	971.1		BS	+537	-191					
	570				8.9	BH	+2.9	+11.8			BS	+2						
210	470		162 35	--	9.8	-		-7.8		961.3		-447	+145	1,240,091	251,704			
211	143		167 10	--	4.7	TH	+0.7	-4.0		967.1		-139	+33	1,240,379	251,592			
π	0				5.1	-		-5.1		966.0	π	0	0	1,240,538	251,559			
212	177		22 30	-0.6	10.0	-		-10.0		961.1		+183	+73	1,240,721	251,632			
213	526		26 - , -	--	9.4	91 -	-9.2	-18.6		952.5		+475	+226	1,241,013	251,785			
214	853		25 30 46	--	10.4	91 -	-14.9	-25.3		945.8	TP	+774	+359	1,241,314	251,918			
214	853				7.9	91 10	-17.4	-25.3			TP	+2						
	837		178 29 22	-0.6	8.7	89 -	-14.6	-5.9	939.9		BS	+836	-31					
	837				6.3	89 10	-12.2	-5.9			BS	+2						
215	568		176 10 ,	--	6.7	89 10	+7.4	+0.7		940.6		-506	+39	1,241,646	251,926			
216	180		171 30	-	5.1	89 10	+2.6	-2.5		937.4		-178	+28	1,241,974	251,915			
π	0				5.1	-		-5.1		934.8	π	0	0	1,242,152	251,887			
217	139		341 30 ,	-0.6	8.7	88 10	+4.4	-4.3		935.6		+131	-45	1,242,283	251,842			
218	460		322 40 ,	--	10.3	88 40	+10.7	+0.4		940.3		+363	-283	1,242,515	251,604			
TP	699		323 12 33	-	8.0	89 10	+10.2	+2.2		942.1	TP	+555	-424	1,242,709	251,463			
TP	699				10.1	89 -	+12.2	+2.1			TP	+2						

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	5-2-85	INSTRUMENT MAN	B. Cotnam	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	KW	LINE NO.	24	PAGE	19	
AREA	GEORGIA	TOPO MAP	Whitesburg-7 1/2'	STATE	G.A.	COUNTY	Coweta	TWP		RANGE		PPM	PARTY MANAGER	W. Cassidy

STATION NO.	SLOPE 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.	
									942.1					
	373		156 52 50	-0.6	6.9	85 -	-32.5	-25.6	916.5		BS	+340	-149	
	373				6.8	275 -	-32.5	-25.7		BS		+2		
219	284		157 50	--	6.5	85 -	+24.7	+14.2		934.7		-262	+110	1,242,789 251,424
π	0				5.1	-		-5.1		911.4	π	0	0	1,243,051 251,314
220	46		323 10	--	5.7	92 -	-7.6	-7.3		909.2		+37	-28	1,243,088 251,284
221	366		294 30	--	5.9	91 40	-10.6	-16.5		900.0		+148	-335	1,243,197 250,979
TP	555		294 19 25	-0.5	1.9	91 40	-16.1	-18.0		898.5	TP	+224	-508	1,243,277 250,806
TP	555				3.6	91 30	-14.5	-18.1			TP	+2		
	374		135 46 21	-0.5	6.2	-		+6.2	904.7		BS	+266	-263	
	374				8.1	71	-1.9	+6.2		BS		+2		
222	227		136 25	--	5.9	-		-5.9		898.8		-163	+158	1,243,382 250,701
π	0				5.1	-		-5.1		899.6	π	0	0	1,243,545 250,543
223	102		324 05	--	8.8	92 -	-3.6	-12.4		892.3		+82	-61	1,243,627 250,482
224	430		326 40	--	5.0	93 -	-22.5	-27.5		877.2		+357	-239	1,243,702 250,304
225	754		320 51 00	--	9.8	92 20	-30.7	-40.5		864.2	TP	+580	-481	1,244,127 250,062
225	754				12.0	92 10	-28.5	-40.5			TP	+2		
	426		106 02 27	-0.5	6.9	88 -	-14.9	-8.0	856.2		BS	+114	-410	
	426				5.7	88 10	-13.6	-7.9		BS		+2		
226	98		101 10	--	4.7	88 -	+3.4	-1.3		854.9		-18	+96	1,244,225 249,748
π	0				5.1	-		-5.1		851.1	π	0	0	1,244,243 249,652

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	5- -85	INSTRUMENT	B. Cotcamp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	15/00	LINE NO.	24	PAGE	20	
AREA	GEORGIA	TOPO MAP	Whites Burg-76'	STATE	G.A.	COUNTY	Coweta	TWP		RANGE		PPM	PARTY MANAGER	W. Cassidy

STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									856.2					
227	229		304° 25'	-0.5	7.0	90° 40'	-2.7	-9.7		846.5		+128	-190	1,244,371 249,462
TP	525		362° 26' 32"	--	7.3	90° 40'	-6.1	-13.4		842.8	TP	+278	-445	1,244,523 249,207
TP	525				8.9	90° 30'	-4.6	-13.5			TP	+2		
	390		110° 15' 40"	-- +	2.9	88° 30'	-10.2	-7.3	835.5		BS	+132	-367	
	390			+ 4.0		88° 20'	-11.3	-7.3			BS	+2		
228	357		110° 45'	-0.5	3.7	88° 20'	+10.4	+6.7		842.2		-124	+335	1,244,533 249,175
229	30		125° 25'	--	6.1	88° 20'	+0.9	-5.2		830.3		-17	+25	1,244,640 248,865
HI	24		182° 05' 15"	--	5.7	91° 20'	+0.6	-5.1		830.4		-24	-1	1,244,633 248,839
K	0				5.1	-		-5.1		830.4	K	0	0	1,244,657 248,840
IF	257		254° 10' 18"	--	7.8	94° -	-17.9	-25.7		809.8	IF	-72	-246	1,244,585 248,691 IF -1,244,600 x -248,610 T-Inter
230	310		256° 50'	--	7.2	94° -	-21.6	-28.8		806.7		-73	-301	1,244,584 248,539
TP/231	638		253° 00'	--	4.6	93° -	-33.4	-38.0		797.5	TP	-192	-608	1,244,467 248,232
231	638				4.6	267° -	-33.4	-38.0			TP	+2		
	661		59° 18' 16"	-0.5 +	9.8	-		+9.8	807.3		BS	-342	-565	
	661			+ 9.7		230° -		+9.7			BS	+3		
232	330		59° 05'	--	12.2	-		-12.2		795.1		+172	+282	1,244,300 247,949
233	0				5.1	-		-5.1		802.2	K	0	0	1,244,128 247,667
HI	330		257° 39' 04"	--	11.0	-		-11.0		796.3	HI	-73	-322	1,244,055 247,345 ACROSS STA y-1,244,055 x 247,345 T-Int. EL. 797.6
234	330		259°	--	11.3	-		-11.3		796.0		-66	-323	1,244,062 247,344 Horiz 0 - +41 corr. x - 15

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
5-2-85		B. Cotcamp		K. Greenfield		6834		JWB		24	21				
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
Georgia		Whitesburg-7 1/2'		G.A.		Coweta					D. Cassidy				
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									807.3						
TP	403		258° 31' 37"	-0.6	13.6	-		-13.6		793.7	TP	-84	-394	1,244,044	247,273
TP	403				11.6	BH	-2.0	-13.6			TP				
	318		99° 30' 14"	-- +	5.0	-		+5.0		798.7	BS	+49	-314		
	318				3.4	BH	+1.6	+5.0			BS				
235	59		109° 30'	-0.6	6.3	-		-6.3		792.4		-19	+56	1,244,074	247,015
	0				5.1	-		-5.1		793.6	X	0	0	1,244,093	246,959
236	268		283° 45'	--	4.8	88° -	+9.3	+4.5		803.2		+61	-261	1,244,154	246,698
TP	332		279° 42' 12"	--	6.6	88° -	+11.6	+5.0		803.7	TP	+53	-328	1,244,146	246,631
TP	332				7.5	87° 50'	+12.5	+5.0			TP				
	190		60° 07' 46"	-0.6 +	10.5	-		+10.5		814.2	BS	-96	-164		
	190				9.6	BH	+1.0	+10.6			BS				
X	0				5.1	-		-5.1		809.1	X	0	0	1,244,050	246,467
237	72		243° 10'	--	5.7	87° 40'	+2.9	-2.8		811.4		-33	-64	1,244,017	246,403
TP	371		228° 48' 03"	--	5.2	88° 40'	+8.6	+3.4		817.6	TP	-247	-277	1,243,803	246,190
TP	371				6.2	88° 30'	+9.7	+3.5			TP				
	369		119° 52' 20"	-0.6 +	8.1	89° 30'	-3.2	+4.9		822.5	BS	+180	-322		
	369				9.2	89° 20'	-4.3	+4.9			BS				
238	317		120° 20'	--	9.3	89° 20'	+3.7	-5.6		816.9		-157	+275	1,243,826	246,143
X	0				5.1	-		-5.1		817.4	X	0	0	1,243,983	245,868
239	42		26°	--	5.5	79° 20'	+0.5	-5.0		817.5		+38	+18	1,244,021	245,886

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	5-2-85	INSTRUMENT MAN	B. Cotcamp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	JWC	LINE NO.	24	PAGE	22
AREA	GEORGIA	TOPO MAP	Whitesburg Lowell	STATE	G.A.	COUNTY	Coweta	TWP	RANGE	PPM	PARTY MANAGER	W. Cass, Jr	

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			
									822.5									
240	361		351° 45'	-0.6	7.1	90° 50'	-5.2	-12.3		810.2		+357	-56	1,244,340	245,612			
241	690		352° 40'	--	6.0	91° 12'	-14.4	-20.4		802.1		+683	-95	1,244,666	245,773			Whitesburg - 7 1/2' ↑
242	1015		349° 43' 50"	--	8.0	90° 50'	-14.8	-22.8		799.7	TP	+997	-191	1,244,980	245,677			LOWELL - 7 1/2'
242	1015				10.9	90° 40'	-11.8	-22.7			TP							
	339		152° 16' 38"	-0.6	+5.7	-		+5.7	805.4		BS	+298	-161					
	339				+7.4	74	-1.7	+5.7			BS							
243	13		137° 10'	--	5.2	-		-5.2		800.2		-9	+9	1,245,269	245,526			
TP	0				5.1	-		-5.1		800.3	TP	0	0	1,245,278	245,518			
244	313		281° 05'	--	8.7	91° -	-5.5	-14.2		791.2		+57	-308	1,245,335	245,208			
245	643		279° 05'	--	9.3	91° 10'	-13.1	-22.4		783.0		+95	-636	1,245,373	244,880			
246	973		278° 50'	--	10.0	91° 10'	-19.8	-29.8		775.6		+139	-963	1,245,417	244,553			
TP	1078		278° 53' 58"	-	9.4	91° 10'	-21.9	-31.3		774.1	TP	+156	-1066	1,245,434	244,450			
TP	1078				9.3	268° 50'	-21.9	-31.2			TP							
	225		126° 39' 27"	-0.6	6.9	89° -	-3.9	+3.0	777.1		BS	+132	-182					
	225				+10.9	88° -	-7.9	+3.0			BS							
247	0				5.1	-		-5.1		772.0	TP	0	0	1,245,566	244,268			
248	330		292° 10'	--	6.8	-		-6.8		770.3		+121	-307	1,245,687	243,961			
TP	412		292° 44' 42"	-	7.0	-		-7.0		770.1	TP	+155	-382	1,245,721	243,886			
TP	412				9.1	74	+2.1	-7.0			TP							

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
5-6-85		B. Cotcamp		K. Greenfield		6834		KLB		24	23			
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER			
GEORGIA		LOWELL-7E		G.A.		Coweta					W. Cassidy			
STATION NO.	SLOPE 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.	
										770-1				
	346		128 11 50	-0.6	+4.5	-		+4.5	774.6		BS	+211	-274	
	346				+6.3	74	-1.7	+4.6		BS				
249	101		127 50	--	4.8	-		-4.8		769.8		-61	+80	1,245,871 243,692
π	0				5.1	-		-5.1		769.5	π	0	0	1,245,932 243,612
250	236		10 35	--	8.6	89-	+4.1	-4.5		770-1		+232	+41	1,246,164 243,653
TP	306		3 30 40	--	14.5	89-	+5.3	-9.2	765.4		TP	+306	+16	1,246,238 243,628
TP	306				14.4	21-	+5.3	-9.1		TP				
	318		185 15 52	-0.6	+3.9	88 10'	-10.2	-6.3	759-1		BS	+317	+26	
	318				+2.9	88 20'	-9.2	-6.3		BS				
251	68		180 45	--	5.2	88 10'	+2.2	-3.0		756-1		-68	+0	1,246,487 243,654
Bm	48		238 41	--	4.7	88 20'	+1.4	-3.3		755.8	Bm	-25	-41	1,246,530 243,613
π	0				5.1			-5.1		754.0	π	0	0	1,246,555 243,654
TP	171		297 21 29	-0.6	5.1	90 10'	-0.5	-5.6	753.5		TP	+77	-153	1,246,632 243,501
TP	171				6.0	89 52'	+0.4	-5.6		TP				
	226		101 45 54	--	+3.8	88-	-7.9	-4.1	749-4		BS	+44	-222	
	226				+3.2	88 10'	-7.2	-4.0		BS				
252	128		100 15	--	2.4	88 10'	+4.1	+1.7		751-1		-21	+126	1,246,655 243,405
π	0				5.1			-5.1		744-3	π	0	0	1,246,676 243,279
253	204		319 30	--	5.1	92 10'	-7.7	-12.8		736.6		+154	-134	1,246,830 243,145

1,246,535 X-243,610
Approx. cor. Bm EL 758.0

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 5-1-85	INSTRUMENT MAN B. Cotcamp	ROD MAN K. Greenfield	PARTY NUMBER 6834	NOTES CHECKED BY KUB	LINE NO.	PAGE 24
AREA Georgia	TOPO MAP LOWELL-7 1/2'	STATE G.A.	COUNTY Coweta	TWP	RANGE	PPM
PARTY MANAGER W. Cassidy						

STATION NO.	SLOPE DISTANCE	PLOTting DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS	
												LAT.	DEP.	Y	X		
									749.4								
TP	363		318° 46' 17"	-0.6	3.1	92° 10'	-11.4	-14.5	731.1	734.9	TP	+226	-202	1,246,902	243,077		
TP	303				4.0	92°	-10.6	-14.6		TP							
	339		182° 31' 58"	--	+5.1	88° 30'	-8.9	-3.8		BS		+339	+11				
	339				+5.0	211° 30'	-	-3.9		BS							
#	329		181° 10' 45"	-0.6	9.0	87° 48'	+12.6	+3.6		734.7		-329	-3	1,246,912	243,085	# power line	
254	101		175°	--	3.6	88°	+3.5	-0.1		731.0		-101	+10	1,247,140	243,098		
X	0				5.1	-	-	-5.1		726.0	X	0	0	1,247,241	243,088		
255	228		328° 45'	--	11.6	90° 20'	-1.3	-12.9		718.2		+194	-120	1,247,435	242,968	Last sta. South side of rd	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	5-6-85	INSTRUMENT MAN	B. Cotcamp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	KWK	LINE NO.	24	PAGE	25
AREA	Georgia	TOPO MAP	LOWELL - 7 1/2'	STATE	G.A.	COUNTY	CARROL	TWP		PARTY MANAGER	W. Cassing		

STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
Tr.	J-Intersect		EL. 754.0 (Scale 90)		1.251,315 X	236,620				754.0					4-1,251,315 X - 236,620 y-intercept EL. 754.0
BS	122		309 41 38	-0.4	5.3	-		+5.3	759.3		BS	-77	+94		
BS	122				5.9	TM	-0.6	+5.3			BS	-			
TP	0				5.1	-		-5.1		754.2	TP	0	0	1,251,237	239,714
TP	321		101 11 44	--	5.1	87 10	+15.9	+10.8		770.1	TP	-60	+315	1,251,176	240,029
TP	321				6.0	87 -	+16.8	+10.8			TP	-			
	903		337 51 57	--	+6.5	89 10	-13.1	-6.6		763.5	BS	-834	+346		
	903				+6.4	270 50	-13.1	-6.7			BS	-			
TP	0				5.1	-		-5.1		758.4	TP	0	0	1,250,341	240,375
TP	1066	1064.9	139 01 27	-0.4	6.5	92 40	-49.6	-56.1			TP	-799	+704	1,249,541	241,079
TP	1066				6.4	267 20	-49.6	-56.0		707.5	TP	-			
	356		276 15 51	--	+11.3	89 1/2	-5.2	+6.1		713.6	BS	-36	+354		
	356				+11.2	270 50	-5.2	+6.0			BS	-			
261	635		131 05	--	8.5	92 20	-25.8	-34.3		679.3		-414	+482	1,249,090	241,915
262	306		135 25	--	13.6	92 20	-12.4	-26.0		687.6		-216	+216	1,249,288	241,649
TP	0				5.1	-		-5.1		708.5	TP	0	0	1,249,504	241,433
263	30		272 20	-0.4	5.3	89 20	-1.2	-6.5		707.1		+1	-30	1,249,505	241,403
264	352		299 15	--	5.3	91 20	-8.2	-13.5		700.1		+170	-308	1,249,674	241,125
265	681		299 20	--	6.0	89 40	+4.0	-2.0		711.6		+329	-596	1,249,833	240,837
TP	818		299 12 20	--	2.1	89 40	+4.8	+2.7			TP	+394	-717	1,249,897	240,717
TP	818				2.0	270 20	+4.8	+2.8		716.4	TP	-	+1		

1st stn. north of rd

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-6-85		B. Cotcamp		K. Greenfield		6834		KUG		24		26			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		LOWELL-1 1/2'		G.A.		CARROL								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									716.4						
	590	588.6	150° 22' 46"	-0.4	12.5	94° 20'	+41.2	+53.7	770.1		BS	+510	-294		
	590				+14.3	93° 50'	+39.4	+53.7		BS	-	+			
266	389		149° -	--	6.3	95° 20'	-36.2	-42.5		727.6		-325	+214	1,250,581	240,638
267	178		89° 46'	--	6.2	96° 20'	-19.6	-25.8		744.3		+2	+178	1,250,408	240,602
π	0				5.1	-		-5.1		765.0	π	0	0	1,250,406	240,424
268	335		17° 30'	--	6.8	93° 20'	-19.5	-26.3		743.8		+320	+99	1,250,726	240,523
269	611		355° 47'	--	6.2	96° 26'	-4.6	-10.8		759.3		+609	-49	1,251,015	240,375
270	829		336° 19'	--	5.2	89° 46'	+4.8	-0.4		769.7		+757	-338	1,251,163	240,086
271	1088		324° 20'	--	5.1	96° 10'	-3.2	-8.3		761.8		+879	-641	1,251,285	240,783
TP	1103		320° 13' 16"	-0.3	6.9	96° 20'	-6.4	-13.3		756.8	TP	+844	-710	1,251,249	239,715
TP	1103				3.8	269° 30'	-9.6	-13.4			TP	-	+		
	2943	2940.9	130° 30' 47"	--	+11.7	92° 10'	+111.3	+123.0	879.7		BS	+1899	-2246		
	2943				+11.4	267° 56'	+111.3	+122.7		+122.9 1/2	BS	-	+		
Y	2840	2837.3	130° 39' 36"	--	1.3	92° 30'	-123.9	-125.2		754.5	Y	-1837	+2162	1,251,310	239,632
															Y _g - enter EL. 754.0
272	2676	2673.1	130° 25'	-0.3	7.1	92° 40'	-124.4	-131.5		748.2		-1722	+2044	1,251,425	239,517
273	2346	2342.8	-	--	7.9	93° -	-122.6	-130.5		749.2		-1510	+1792	1,251,637	239,262
274	2016	2012.6	-	--	5.1	93° 20'	-119.0	-122.1		757.6		-1297	+1539	1,251,850	239,009
275	1686	1682.9	-	--	8.3	93° 30'	-102.7	-111.0		768.7		-1084	+1287	1,252,063	238,757
276	1357	1354.2	-	--	10.0	93° 40'	-86.8	-96.8		782.9		-872	+1035	1,252,275	238,505
H	1043	1040.0	131° 00' 06"	-	7.4	94° 20'	-78.8	-86.2		793.5	H	-678	+788	1,252,469	238,258

1/2 - 1,252,450 x - 238,300
PIPELINE

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	5-6-85	INSTRUMENT MAN	B. O'Camp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	RWS	LINE NO.	24	PAGE	27
AREA	GEORGIA	TOPO MAP	LOWELL - 7 1/2'	STATE	G.A.	COUNTY	CAROL	TWP		PPM		PARTY MANAGER	W. Cassidy

STATION NO.	SLOPE DISTANCE	PLOTTING 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.	
									879.7					
277	1028	1025.1	130° 25'	-0.3	8.0	94° 20'	-77.7	-85.7		794.0		-660	+784	1,252,487 238,254
278	699	696.0	- -	--	9.0	95° 20'	-65.6	-74.0		805.7		-448	+532	1,252,699 238,602
279	369	367.4	- -	--	9.1	95° 20'	-34.3	-43.4		836.3		-236	+281	1,252,911 237,751
280	45		100° 50'	--	6.6	92° 20'	-1.8	-8.4		871.3		-8	+44	1,253,139 237,514
TP	0				5.1	-		-5.1		874.6	TP	0	0	1,253,147 237,470
281	293		319° 10'	-0.3	6.6	87° 20'	+13.6	+7.0		886.7		+221	-193	1,253,368 237,277
282	622		316° 40'	--	10.0	87° 52'	+23.2	+13.2		892.9		+450	-429	1,253,597 237,041
TP	892		318° 33' 45"	--	10.2	88° -	+31.1	+20.9			TP	+665	-593	1,253,811 236,878
TP	892				10.1	272° -	+31.1	+21.0		900.7	TP	-	+	
	615		149° 25' 03"	-0.3	10.9	92° -	+21.5	+32.4			BS	+527	-315	
	615				+9.1	92° 10'	+23.3	+32.4	933.1		BS	-	+	
283	556		149° 05'	--	6.5	92° 30'	-24.2	-30.7		902.4		-476	+288	1,253,861 236,852
284	227		144° 50'	--	7.3	92° 30'	-9.9	-17.2		915.9		-185	+132	1,254,152 236,696
TP	0				5.1	-		-5.1		928.0	TP	0	0	1,254,337 236,564
285	103		318° -	--	5.3	88° 10'	+3.3	-2.0		931.1		+76	-69	1,254,413 236,495
286	433		- -	--	10.8	88° 10'	+13.8	+3.0		936.1		+320	-291	1,254,657 236,273
TP	766		318 31 39	--	7.6	89° 10'	+11.1	+3.5			TP	+571	-510	1,254,907 236,055
TP	766				7.5	270 50	+11.1	+3.6		936.7	TP	-	+	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-6-85		B. Cotcamp		K. Greenfield		6834		KUB		24		28			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		Lowell-7 1/2'		G.A.		Cobb								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOTTING 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
									936.9						
	1650		156 19 46	-0.3	+11.8	91°	+28.8	+40.6	977.2		BS	+1507	-670		
	1650				+11.5	268°	+28.8	+40.3		+40.53	BS	-	+		
287	1649		155 25	--	7.3	91° 10'	-33.6	-40.9		936.3		-1496	+694	1,254,917	236,080
288	1320		155 35	--	10.7	91° 10'	-26.9	-37.6		939.6		-1199	+552	1,255,214	235,938
289	990		- -	--	10.3	91° 20'	-23.0	-33.3		943.9		-899	+414	1,255,514	235,800
290	660		- -	--	12.3	91° 20'	-15.4	-27.7		949.5		-600	+276	1,255,813	235,662
291	330		- -	--	8.1	91° 20'	-7.7	-15.8		961.4		-300	+138	1,256,113	235,524
292	0				5.1	-		-5.1		972.1	X	0	0	1,256,413	235,386
293	330		338 05	-0.3	11.3	89° 20'	+3.8	-7.5		969.7		+306	-125	1,256,719	235,261
294	660		- -	--	9.3	89° 20'	+7.7	-1.6		975.6		+611	-250	1,257,024	235,136
TP	949		335 53 23	--	6.0	89°	+16.6	+10.6			TP	+864	-392	1,257,276	234,995
TP	949				5.9	271°	+16.6	+10.7		987.9	TP	-	+		
	843	842.2	140 57 35	--	3.2	92° 30'	+36.8	+40.0	1027.9		BS	+651	-534		
	843				3.1	267° 30'	+36.8	+39.9		BS	-	+			
295	804		141 10	-0.3	3.5	92° 30'	-35.0	-38.5		989.4		-624	+507	1,257,302	234,969
296	475		137° 50'	--	8.8	92°	-16.6	-25.4		1,002.5		-350	+321	1,257,576	234,783
H	244		135° 22'	--	6.8	92°	-8.5	-15.3		1,012.6	H	-173	+172	1,257,753	234,634
297	148		130°	--	5.3	92°	-5.2	-10.5		1,017.4		-95	+114	1,257,831	234,576
X	0				5.1	-		-5.1		1,022.8	X	0	0	1,257,926	234,462
298	182		304° 45'	--	5.2	-		-5.2		1,022.7		+103	-150	1,258,029	234,312

Y=1,257,753 X=234,625
powerline

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	5-6-85	INSTRUMENT MAN	B. Cotcamp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	KUC	LINE NO.	24	PAGE	29	
AREA	GEORGIA	TOPO MAP	Lowell - 7 1/2'	STATE	G.A.	COUNTY	CAROL	TWP		RANGE		PPM	PARTY MANAGER	W. Cassidy

STATION NO.	SLOPE DISTANCE	PLOTting 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.	
									1027.9					
299	512		302° 25'	-0.3	8.7	91° -	-8.9	-17.6		1,010.3		+272	-434	1,258,198 234,028
300	843		303° 26' 46"	--	12.3	91° -	-14.7	-27.0			TP	+461	-706	1,258,586 233,757 ACROSS STA.
300	843				12.2	269° -	-14.7	-26.9		1,001.0	TP	-	+1	
	2154		144° 08' 15"	-	+10.6	91° 26'	+50.1	+60.7	1061.7		BS	+1739	-1271	
	2154		"		+10.5	268° 40'	+50.1	+60.6			BS	-	+1	
301	1819		144° -	-0.3	12.3	91° 30'	-47.6	-59.9		1,001.8		-1466	+1077	1,258,658 233,564
302	1490		143° 55'	--	13.1	91° 32'	-39.9	-53.0		1,008.7		-1200	+884	1,258,724 233,371
303	1160		144° 05'	--	11.0	91° 30'	-30.4	-41.4		1,020.3		-936	+685	1,259,188 233,172
304	830		- -	--	7.1	91° 30'	-21.7	-28.8		1,032.9		-670	+490	1,259,454 232,977
305	500		- -	--	6.7	91° -	-8.7	-15.4		1,046.3		-403	+295	1,259,721 232,782
306	171		143° 20'	--	7.1	-	-	-7.1		1,054.6		-137	+103	1,259,987 232,590
TP	176		146° 19' 42"	--	6.7	-	-	-6.7		1,055.0		-146	+98	1,259,978 232,585
TP	0				5.1	-	-	-5.1		1,056.6	TP	0	0	1,260,124 232,487
307	165		345° 20'	-0.3	4.0	-	-	-4.0		1,057.7		+159	-43	1,260,283 232,444
308	495		344° 43'	--	9.2	-	-	-9.2		1,052.5		+477	-133	1,260,601 232,354
309	825		- -	--	10.2	-	-	-10.2		1,051.5		+795	-222	1,260,919 232,265
310	1155		- -	--	9.3	-	-	-9.3		1,052.4		+1113	-310	1,261,237 232,177
311	1485		344° 30'	--	9.0	-	-	-9.0		1,052.7		+1429	-404	1,261,553 232,083
312	1815		344° 55'	--	11.1	-	-	-1.1		1,060.6		+1750	-481	1,261,874 232,006
					3									

11 y = 1,259,980 x - 232,600
y = Inter. EL. 1057.0

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	5-7-85	INSTRUMENT MAN	B. Cotcamp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	RWL	LINE NO.	24	PAGE	30	
AREA	Georgia	TOPO MAP	Lowell - 7 1/2'	STATE	G.A.	COUNTY	CARROL	TWP		RANGE		PPM	PARTY MANAGER	W. Cassidy

STATION NO.	SLOPE DISTANCE	PLOTTING 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
									1,061.7						
TP	2070		344° 27' 20"	-0.3	3.2	-		-3.2			TP	+1991	-565	1,262,114	231,923
TP	2070				3.1	270°		-3.1		1058.6	TP	-	+1		
	713		162° 44' 03"	-	+9.8	89°	-12.4	-2.6	1056.0		BS	+680	-215		
	713				+9.7	271°	-12.4	-2.7			BS	-	+1		
313	650		165° 25'	-	9.2	89°	+11.3	+2.1		1058.1		-628	+167	1,262,165	231,876
314	330		170° 20'	-	8.1	89°	+5.8	-2.3		1053.7		-325	+57	1,262,468	231,766
TP	327		172° 09' 30"	-	8.0	89°	+5.7	-2.3		1053.7	TP	-324	+46	1,262,469	231,755
315	0				5.1	-		-5.1		1,050.9	TP	0	0	1,262,793	231,709
316	330		350° 10'	-0.3	8.4	89° 30'	+2.9	-5.5		1,050.5		+325	-58	1,263,118	231,651
317	660			-	8.7	89° 30'	+5.8	-2.9		1053.1		+650	-116	1,263,443	231,593
318	990			-	4.6	89° 30'	+8.6	+4.0		1,060.0		+975	-174	1,263,768	231,535
319	1320		349° 50'	-	5.1	89° 20'	+15.4	+10.3		1,066.3		+1298	-240	1,264,091	231,469
TP	1429		348° 55' 34"	-	8.2	89° 20'	+16.6	+8.4		1064.4	TP	+1401	-282	1,264,193	231,428
TP	1429				4.1	89° 30'	+12.5	+8.4			TP	-	+1		
	549		152° 35' 10"	-0.3	4.4	87° 40'	-22.4	-18.0			BS	+486	-255		
	549				+6.0	87° 30'	-23.9	-17.9	1046.5		BS	-	+1		
320	330		151° 10'	-	4.8	87° 30'	+14.4	+9.6		1056.1		-288	+161	1,264,390	231,335
321	0				5.1	-		-5.1		1,041.4	TP	0	0	1,264,678	231,174
322	336		326° 25'	-	10.2	88° 30'	+8.6	-1.6		1,044.9		+274	-184	1,264,752	230,990

1,262,490 X - 231,765
TP 4 Way Inter.

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	5-6-85	INSTRUMENT MAN	B. Cotcamp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	5-10-85 KUC	LINE NO.	24	PAGE	31
AREA	Georgia	TOPO MAP	LOWELL - 7 1/2'	STATE	G.A.	COUNTY	Carroll	TWP		PARTY MANAGER	W. Cassidy		

STATION NO.	SLOPE DISTANCE	PLOTTING 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.	
									1046.5					
323	660		326 15	-0.3	6.0	88 10	+21.1	+15.1		1061.6		+547	-370	1,265,225 230,804
324	693		325 25 46	--	5.0	88 10	+22.2	+17.2		1063.7		+568	-396	1,265,246 230,778 JLY -1,265,225 x -230,760 71 4 way
324	989		326 22 03	--	7.5	88 30	+28.8	+21.3		1067.8	TP	+820	-552	1,265,497 230,623
324	989				4.7	88 30	+25.9	+21.2			TP	-	+1	
	1751		149 34 28	-0.3	12.9	-		+12.9	1080.7		BS	+1505	-895	
	1751				12.8	270		+12.8			BS	-	+1	
325	1421		149 50	--	10.6	84	-7.1	-17.7		1063.0		-1225	+721	1,265,776 230,450
326	1091		-	--	11.3	-		-11.3		1,069.4		-940	+553	1,266,061 230,282
327	761		-	--	6.0	-		-6.0		1,074.7		-656	+386	1,266,345 230,115
328	433		146 55	--	9.1	-		-9.1		1,071.6		-362	+238	1,266,639 229,967
329	112		125 30	--	7.0	-		-7.0		1,073.7		-65	+92	1,266,936 229,821
329	0				5.1	-		-5.1		1,075.6	TP	0	0	1,267,001 229,729
330	237		349 55	-0.3	5.1	89	+4.1	+1.0		1,081.7		+231	-51	1,267,232 229,678
331	564		341 05	--	6.2	89	+9.8	+3.6		1,084.3		+533	-186	1,267,534 229,543
332	894		-	--	12.7	89	+15.6	+2.9		1,083.6		+844	-294	1,267,845 229,435
333	1224		-	--	9.2	89 20	+14.2	+5.0		1,085.7		+1156	-403	1,268,157 229,324
334	1554		-	--	6.1	89 10	+22.6	+16.5		1,097.2		+1467	-511	1,268,468 229,218
335	1884		-	--	3.5	89	+32.9	+29.4		1,110.1		+1779	-620	1,268,780 229,109
336	2213		340 34 42	--	7.6	88 50	+45.1	+37.5		1118.2	TP	+2083	-747	1,269,083 228,993
336	2213				7.7	271 10	+45.1	+37.4			TP	-	+1	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	5-7-85	INSTRUMENT MAN	B. Cotcamp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	None	LINE NO.	24	PAGE	32	
AREA	GEORGIA	TOPO MAP	LOWELL-7 1/2'	STATE	G.A.	COUNTY	CAROL	TWP		RANGE		PPM		
													PARTY MANAGER	W. Cassidy

STATION NO.	SLOPE 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.	
										1118.2				
	1834		155° 14' 28"	-0.3	+4.5	91°	+32.0	+36.5	1154.7		BS	+1661	-777	
	1834				+4.4	269°	+32.0	+36.5			BS	-	+1	
337	1504		154° 40'	--	4.9	91°	-26.2	-31.1		1,123.6		-1356	+651	1,269,387 228,858
338	1176		154° 05'	--	7.3	91° 20'	-27.4	-34.7		1,120.0		-1055	+520	1,269,688 228,727
339	846		152° 58'	--	9.1	91° 50'	-27.1	-36.2		1,118.5		-752	+388	1,269,991 228,595
340	517		150° 30'	--	6.7	91° 50'	-16.5	-23.2		1,131.5		-449	+257	1,270,294 228,464
341	188		147° 35'	--	6.9	-	-	-6.9		1,147.8		-158	+102	1,270,585 228,309
341	145		150° 37' 58"	~	5.9	-	-	-5.9		1,148.8	341	-126	+72	1,270,617 228,279
341	0				5.1	-	-	-5.1		1,149.6	341	0	0	1,270,743 228,207
342	143		318° -	-0.3	6.9	-	-	-6.9		1,147.8		+106	-96	1,270,849 228,111
343	473		316° 20'	--	10.7	91° 20'	-11.0	-21.7		1,133.0		+340	-328	1,271,083 227,879
344	803		315° 40'	--	13.2	91° 20'	-18.7	-31.9		1,122.8		+571	-564	1,271,314 227,643
345	1133		315° 20'	--	4.1	91° 20'	-26.4	-30.5		1,124.2		+802	-801	1,271,545 227,406
346	1463		-	-0.3	5.8	90° 50'	-21.3	-27.1		1,127.6		+1035	-1034	1,271,778 227,173
347	1792		315° 15'	--	6.8	90° 50'	-26.1	-32.9		1,121.8		+1266	-1268	1,272,009 226,939
348	2122		315° 05'	--	12.0	90° 54'	-33.3	-45.3		1,109.4		+1495	-1506	1,272,238 226,701
349	2451		314° 35'	--	6.8	90° 54'	-38.5	-45.3		1,109.4		+1711	-1755	1,272,454 226,452
350	2778		313° 37' 20"	--	10.8	90° 30'	-24.2	-35.0		1119.7	TP	+1906	-2021	1,272,648 226,187
350	2778				2.7	269° 20'	-32.3	-35.0			TP	-	+1	

5-1,270,600 X-228,270
T-Inter.

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-7-85		B. Cotcamp		K. Greenfield		6834		L. Kelly		122		33			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Georgia		LOWELL - 7 1/2		G.A.		CARROL								W. Cass, M	
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									1119.7						
	1650		123 34 15	-0.3	6.9	-		+6.9	1126.6		BS	+905	-1380		
	1650				6.8	270		+6.8		BS	-				
351	1320		123 40	--	8.8	-		-8.8	1117.8			-726	+1102	1,272,826	225,910
351	1608		123 57 02	--	5.0	90 02	-0.9	-5.9	1,120.7		TP	-891	+1339	1,272,661	226,147
352	990		123 40	--	12.7	-		-12.7	1,113.9			-545	+827	1,273,007	225,635
353	660			--	11.0	04	-3.3	-14.3	1,112.3			-363	+551	1,273,189	225,359
354	330			--	7.3	-		-7.3	1,119.3			-182	+276	1,273,370	225,084
355	0				5.1	-		-5.1	1,121.5		TP	0	0	1,273,552	224,808
356	330		307 40	-0.3	7.7	-		-7.7	1,118.9			+200	-262	1,273,752	224,546
357	660			--	4.3	74	+3.3	-1.0	1,125.6			+401	-525	1,273,953	224,283
358	990		308 10	--	10.2	89	+17.3	+7.1	1,133.7			+608	-782	1,274,160	224,026
359	1319		308 30	--	3.8	89	+23.0	+19.2	1,145.8			+816	-1037	1,274,368	223,771
360	1649		308 40	-0.3	4.5	88 30	+43.2	+38.7	1,165.3			+1024	-1293	1,274,576	223,515
361	1978		309 10	--	8.9	88	+69.0	+60.1	1,186.7			+1241	-1540	1,274,793	223,268
362	2307		309 20	--	7.0	88	+80.5	+73.5	1,200.1			+1453	-1792	1,275,005	223,016
363	2637		309 35	--	11.2	88	+92.0	+80.8	1,207.4			+1670	-2041	1,275,222	222,767
364	2967			--	10.0	88 16	+94.9	+84.9	1,211.5			+1879	-2297	1,275,431	222,511
TP	3110	3108.4	309 15 50	--	14.6	88 08	+101.3	+86.7			TP	+1955	-2417	1,275,506	222,392
TP	3110			--	14.5	271 52	+101.3	+86.8	1213.4		TP	-			

1,272,635 x -226,080
T-Inter.

LOWELL - 7 1/2
CARROLLTON - 7 1/2

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	5-7-85	INSTRUMENT MAN	B. C. Camp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	<i>[Signature]</i>	LINE NO.	24	PAGE	34	
AREA	Georgia	TOPO MAP	CARROLLTON - 7 1/2'	STATE	G.A.	COUNTY	CARROL	TWP		RANGE		PPM	PARTY MANAGER	W. Cassidy

STATION NO.	SLOPE 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	
										1213.4						
	974		135° 33' 30"	-0.3	7.7	88° 20'	-28.3	-20.6	1192.8		BS	+692	-685			
	974			+10.5	88° 10'	-31.2	-20.7	BS								
365	786		135° 20'	--	7.0	88° 10'	+25.1	+18.1		1210.9		-556	+555	1,215,641	222,263	
366	456		135° 05'	--	5.0	88° 40'	+10.6	+5.6		1,198.4		-321	+324	1,215,876	222,032	
367	161		104° 10'	--	6.3	88° 40'	+3.7	-2.6		1,190.2		-39	+156	1,216,158	221,964	E.O.L. Line # 24
π	0				5.1	-		-5.1		1,187.7	π	0	0	1,216,197	221,709	
□	106		32° 13' 39"	-0.3	7.3	-		-7.3		1185.5	TP	+90	+56	1,216,285	221,765	g → 1,216,285 x → 221,765 D CHISEL SQUARE to correct EL. 1187.0
□	106				6.8	BH	-0.5	-7.3			TP	-2	+1			Horiz y = -31' Coll. x = +25'