

SURVEY NOTES-HIGH RESOLUTION DATA

SEC-44F

Geosource Inc. Client-COCORP

DATE 11/6/78	INSTRUMENT MAN <i>S. Co. comp</i>	ROD MAN <i>R. Hulsey</i>	PARTY NUMBER 6834	NOTES CHECKED BY <i>R. J. H.</i>	LINE NO. 3	PAGE 1 of 34
AREA GEORGIA	TOPO MAP <i>Carlton 7.5'</i>	STATE <i>Georgia</i>	COUNTY <i>Madison</i>	TWP	RANGE	PPM
					PARTY MANAGER <i>L. O. Davis</i>	

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	
1										640.0				1,469,610	217,230	instrument-wild T/A chaining - 300 Lp. 12 fiberglass Tape + steel arrows (scaled)
	125		332° 4' - 180°	-1.1°	+7.2	-		+7.2	647.2		BS	-109	+61			Y intersect. R 640.0
	125				+7.9	TH	-0.6	+7.3			BS					
8	880		171° 36.8'	-1.1°	13.7	-		-13.7		633.5	TP	-868	+145	1,468,633	217,436	
8	880				9.3	OH	-4.4	-13.7			TP					
	440		1° 54' + 180°	-1.1°	+5.7	88° -	-15.3	-9.6	623.9		BS	-440	-6			
	440				+4.2	88° 12'	-13.8	-9.6			BS					
4	440		172° 48.7'	-1.1°	11.9	92° -	-15.3	-27.2		596.7	TP	-435	+63	1,467,758	217,492	Vertical + horizontal traverse from T-rd south to station 1.
4	440				14.5	91° 40'	-12.8	-27.3			TP					
	440	439	347° 1.7' - 180°	-1.1°	4.3	86° -	-30.6	-25.8	570.9		BS	-426	+107			
	440				+3.0	86° 14'	-28.8	-25.8			BS					
1	220		164° 49'	-1.1°	14.7	91° -	-3.8	-18.5		552.4		-211	+62	1,467,121	217,662	
2	0				5.2	-		-5.2		565.7	T	0	0	1,467,332	217,600	
3	220		346° 50'	-1.1°	1.1	87° -	+11.5	+10.4		581.3		+213	-54	1,467,545	217,546	
4	440			-1.1°	4.8	86° -	+30.6	+25.8		596.7		+426	-108	1,467,758	217,492	
5	660		346° 50'	-1.1°	12.2	86° -	+45.9	+33.7		604.6	TP	+640	-163	1,467,972	217,437	
5	660				11.0	86° 6'	+44.8	+33.8			TP					
	660		180° 57.6' + 180°	-1.1°	+11.1	92° -	+23.0	+34.1	638.7		BS	+660	-2			
	660				+13.8	91° 26'	+20.3	+34.1			BS					
6	440		180° 57.6'	-1.1°	12.3	91° -	-7.7	-20.0		618.7		-440	+1	1,468,192	217,436	
7	220			-1.1°	10.3	-		-10.3		628.4		-220	0	1,468,412	217,435	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
11/6/78		S. Co. comp		R. Hulsey		6834		R.J.H.		3	2						
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
Georgia		Carlton		Georgia	Madison					L.O. Davis							
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS	
												LAT.	DEP.	Y	X		
									638.7								
8	0				5.3	-		-5.3		633.4	TP	0	0	1,468,632	217,435		
9	220		351° 34.8'	-1.1°	1.9	-		-1.9		636.8		+217	-36	1,468,849	217,399		
10	440		'	-1.1°	0.4	-		-0.4		638.3		+434	-73	1,469,066	217,362		
11	660		'	-1.1°	2.1	-		-2.1		636.6		+651	-109	1,469,283	217,326		
12	880		351° 34.8'	-1.1°	1.3	TH	+4.4	+3.1		641.8	TP	+868	-146	1,469,500	217,289		
12	880				4.6	89° 30'	+7.7	+3.1			TP						
	1540		153° 15.4' + 180°	-1.1°	+3.8	-		+3.8	645.8	+4.0	BS	+1362	-719				
	1540				+5.9	89° 36'	-1.8	+4.1			BS						
11	1415		153° 19'	-1.1°	5.8	-		-5.8		640.0	TR	-1252	+660	1,469,610	217,230	(1,469,610 + 217,230 / scaled) Y-intersect. el. 640.	
13	1320		153° 15.4'	-1.1°	9.8	-		-9.8		636.0		-1167	+617	1,469,695	217,187		
14	1100		'	-1.1°	8.8	8H	-5.5	-14.3		631.5		-973	+514	1,469,889	217,084		
15	880		'	-1.1°	13.8	8H	-4.4	-18.2		627.6		-778	+411	1,470,084	216,981		
16	660		'	-1.1°	9.4	91°	-11.5	-20.9		624.9		-584	+308	1,470,278	216,878		
17	440		'	-1.1°	8.8	91°	-7.7	-16.5		629.3		-389	+206	1,470,473	216,776		
18	220		'	-1.1°	11.0	71°	-3.8	-14.8		631.0		-195	+103	1,470,667	216,673		
19	0				5.3	-		-5.3		640.5	TP	0	0	1,470,862	216,570		
20	220		342° 40'	-1.1°	4.3	-		-4.3		641.5		+209	-70	1,471,071	216,500		
21	440		'	-1.1°	1.9	-		-1.9		643.9		+417	-139	1,471,279	216,431		
22	660		'	-1.1°	1.1	-		-1.1		644.7		+626	-209	1,471,488	216,361		

SURVEY NOTES-HIGH RESOLUTION DATA

16E.O-445

Geosource Inc.

DATE 11/6/78	INSTRUMENT MAN G. Cotcamp	ROD MAN R. Hulsey	PARTY NUMBER 6834	NOTES CHECKED BY R.J.H.	LINE NO. 3	PAGE 3
AREA Georgia	TOPO MAP Carlton	STATE Georgia	COUNTY Madison	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			
									645.8									
23	880		342° 28.3'	-1.3°	1.8	TH	+4.4	+2.6			TP	+833	-284	1,471,695	216,286			
23	880				5.0	89° 30'	+7.7	+2.7		648.5	TP							
	660		157° 31' +180°	-1.3°	+14.8	90° 20'	+3.8	+18.6			BS	+604	-266					
	660				+11.0	90° 40'	+7.7	+18.7		667.2	BS							
24	440		157° 31'	-1.3°	12.4	-		-12.4		654.8		-403	+177	1,471,896	216,197			
25	220		" "	-1.3°	8.8	-		-8.8		658.4		-201	+89	1,472,098	216,109			
26	0				5.3	-		-5.3		661.9	X	0	0	1,472,299	216,020			
27	220		330° 32'	-1.3°	4.6	-		-4.6		662.6		+189	-113	1,472,488	215,907			
28	440		" "	-1.3°	7.7	-		-7.7		659.5		+378	-225	1,472,677	215,795			
29	660		" "	-1.3°	8.9	-		-8.9		658.3		+567	-338	1,472,866	215,682			
30	880		" "	-1.3°	13.5	-		-13.5		653.7		+756	-450	1,473,055	215,570			
31	1100		331° 24.6'	-1.3°	11.2	BH	-5.5	-16.7		650.5	TP	+954	-548	1,473,253	215,472			
31	1100				14.1	90° 06'	-2.6	-16.7			TP							
	1317		179° 55' +180°	-1.3°	+9.0	BH	+6.6	+15.6		666.1	BS	+1317	-32				Curve	
	1317				+14.0	90° 4'	+1.5	+15.5			BS							
IF	1195		180° 28'	-1.3°	9.9	BH	-6.0	-15.9		650.2		-1195	+17	1,473,375	215,457		Turn (east) ELEV 650	
32	1100		180° 10'	-1.3°	9.9	BH	-5.5	-15.4		650.7		-1106	+22	1,473,470	215,462			
33	880		179° 30'	-1.3°	13.0	-		-13.0		653.1		-880	+28	1,473,670	215,468			
34	660		178° 35'	-1.3°	12.2	-		-12.2		653.9		-659	+31	1,473,911	215,471			

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 11/6/78	INSTRUMENT MAN G. Cotcamp	ROD MAN R. Hulsey	PARTY NUMBER 6834	NOTES CHECKED BY R.J.H.	LINE NO. 3	PAGE 4
AREA Georgia	TOPO MAP Carlton	STATE Georgia	COUNTY Madison	TWP	RANGE	PPM
				PARTY MANAGER L.O. Davis		

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									666.1					
35	440		176° 51'	-1.3°	11.5	-		-11.5		654.6		-439	+34	1,474,131 215,474
36	220		172° 6'	-1.3°	8.8	-		-8.8		657.3		-217	+35	1,474,353 215,475
37	0				5.3	-		-5.3		660.8	TP	0	0	1,474,570 215,440
38	220		343° 1.6'	-1.3°	3.2	-		-3.2		662.9		+209	-69	1,474,779 215,371
39	440		'	-1.3°	1.1	-		-1.1		665.0		+418	-138	1,474,988 215,302
40	660		'	-1.3°	2.8	-		-2.8		663.3		+627	-207	1,475,197 215,233
41	880		343° 1.6'	-1.3°	0.1	-		-0.1		666.0	TP	+836	-276	1,475,406 215,164
41	880				4.5	TH	+4.4	-0.1			TP			
	221		174° 30.4' +180°	-1.3°	+12.0	-		+12.0		678.0	BS	+219	-26	
	221				+13.1	TH	-1.1	+12.0			BS			
IF	155		179° 10'	-1.3°	10.5	-		-10.5		667.5		-155	+6	1,475,470 215,144 T-rod (east) E1. 667
42	0				5.3	-		-5.3		672.7	TP	0	0	1,475,625 215,138
43	220		8° 37'	-1.3°	9.2	-		-9.2		668.8		+218	+28	1,475,843 215,166
44	440		" "	-1.3°	12.7	BH	-2.2	-14.9		663.1		+436	+56	1,476,061 215,194
45	660		" "	-1.3°	11.6	-		-11.6		666.4		+655	+84	1,476,280 215,222
46	880		7° 51.4'	-1.3°	6.6	-		-6.6		671.4	TP	+874	+100	1,476,499 215,238
46	880				11.0	TH	+4.4	-6.6			TP			
	442		156° 29' +180°	-1.3°	+15.0	BH	+2.2	+17.2			BS	+401	-186	
	442				+14.7	70° 20'	+2.6	+17.3		688.7	BS			
47	220		152° 10'	-1.3°	17.5	-		-11.5		677.2		-192	+107	1,476,708 215,159

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

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11/6/78		G. Cotcamp		R. Hulsey		6834		R. J. H.		3		5				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
Georgia		Carlton		Georgia		Madison								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
									688.7							
48	0				5.3	-		-5.3		683.4	X	0	0	1476,900	215,052	driveway (northwest)
49	220		354° 2'	-1.3°	3.3	-		-3.3		685.4		+218	-28	1477,118	215,024	
50	441		354° 2'	-1.3°	4.5	-		-4.5		684.2	TP	+437	-56	1477,337	214,996	T.P. opposite station
50	441				2.3	OH	-2.2	-4.5			TP					
	420	419	185° 58' - 180°	-1.3°	+14.4	86° -	-29.2	-14.8	669.4		BS	+418	+34			shooting across 90° bend
	420				+12.9	86° 12'	-27.8	-14.9			BS					line jogs west
51	195		180° 9'	-1.3°	3.0	87° -	+10.2	+7.2		676.6		-195	+4	1477,560	215,034	
##	180		" "	-1.3°	2.9	87° -	+9.4	+6.5		675.9		-180	+4	1477,575	215,034	railroad
TP	48		134° 49'	-1.3°	4.3	-		-4.3		665.1		-33	+35	1477,722	215,065	T-rd (Rt. 78) El. 666
52	0				5.3	-		-5.3		664.1	X	0	0	1477,755	215,030	
53	220		300° 6'	-1.3°	6.0	-		-6.0		663.4		+106	-193	1477,861	214,837	
54	440		" "	-1.3°	3.9	-		-3.9		665.5		+212	-386	1477,967	214,644	
55	660		" "	-1.3°	1.1	TH	+3.3	+2.2		671.6		+318	-578	1478,073	214,452	Rt # 78
56	880		" "	-1.3°	7.3	89° -	+15.4	+8.1		677.5		+424	-771	1478,179	214,259	
57	1100		300° 6'	-1.3°	7.2	89° -	+19.2	+12.0		681.4	TP	+530	-964	1478,285	214,066	
57	1100				2.1	89° 16'	+14.1	+12.0			TP					
	650		211° 26' - 180°	-1.3°	+9.9	91° -	+11.3	+21.2	702.6		BS	+562	+326			shooting across 90° bend
	650				+14.5	90° 36'	+6.8	+21.3			BS					
	668		214° 2'	-1.3°	8.6	91° -	-11.7	-20.3		682.3		-562	-361	1478,285	214,031	1478,275 + 214,040 4-Way Intersect.
58	440		213°	-1.3°	9.3	91° -	-7.7	-17.0		685.6		-374	-231	1478,473	214,161	line jogs north

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

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11/6/78		G. Cotcamp			R. Hulsey			6834		R. J. H.			3	6		
AREA		TOPO MAP		STATE	COUNTY			TWP	RANGE	PPM	PARTY MANAGER					
Georgia		Carlton		Georgia	Madison						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	
									702.6							
59	220		212° 9'	-1.3°	7.8	-		-7.8		694.8		-189	-113	1478,658	214,279	} paved road
60	0				5.3	-		-5.3		697.3	X	0	0	1478,847	214,392	
61	220		30° 20'	-1.3°	11.9	91° -	-3.8	-15.7		686.9		+192	+107	1,479,039	214,499	
62	440		"	-1.3°	13.7	91° -	-7.7	-21.4		681.2		+385	+214	1,479,232	214,606	
63	660		"	-1.3°	12.8	91° -	-11.5	-24.3		678.3		+577	+320	1,479,424	214,712	
64	880		"	-1.3°	12.8	91° -	-15.4	-28.2		674.4		+769	+427	1,479,616	214,819	
65	1100		30° 20'	-1.3°	13.3	91° -	-19.2	-32.5		670.1	TP	+962	+534	1,479,809	214,926	
	660		220° 37' - 180°	-1.3°	+6.4	-		+6.4		676.5	BS	+511	+418			
	660				+9.7	TH	-3.3	+6.4			BS					
IF	550		222° 12'	-1.3°	7.7	-		-7.7		668.8		-416	-360	1479,904	214,984	trail (east)
66	440		220° 37'	-1.3°	9.8	-		-9.8		666.7		-340	-279	1479,980	215,065	dirt road
67	220		"	-1.3°	8.3	-		-8.3		668.2		-170	-139	1480,150	215,205	
68	0				5.3	-		-5.3		671.2	X	0	0	1,480,320	215,344	
69	220		36° 34'	-1.3°	11.5	91° -	-3.8	-15.3		661.2		+180	+127	1480,500	215,471	
70	438	437	29° 35'	-1.3°	5.6	93° -	-22.9	-28.5		648.0	TP	+385.3	+207	1480,702	215,551	curve
70	438				13.2	92° -	-15.3	-28.5			TP					
	440	439	200° 58.6' - 180°	-1.3°	+6.6	87° -	-23.0	-16.4		631.6	BS	+413.3	+148			
	440				+1.5	87° 40'	-17.9	-16.4			BS					
71	220		200° 58.6'	-1.3°	5.1	88° -	+7.7	+2.6		634.2		-207	-74	1,480,905	215,625	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

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DATE		INSTRUMENT MAN			ROD MAN			PARTY NUMBER		NOTES CHECKED BY			LINE NO.		PAGE	
11/6/78		G. CoTcamp			R. Hulsey			6834		R.J.H.			3		7	
AREA		TOPO MAP		STATE			COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Georgia		Carlton		Georgia			Madison								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	X
									631.6							
72	0				5.3	-		-5.3		626.3	TP	0	0	1,481,112	215,699	bridge
73	220		28°5'	-1.3°	7.2	88°-	+7.7	+0.5		632.1	TP	+196-3	+99	1,481,305	215,798	
73	220				5.0	88°34'	+5.5	+0.5			TP					
	880	879	219°54' - 180°	-1.3°	+5.2	92°-	+30.7	+35.9	668.0		BS	+687-3	+549			
	880				+7.3	91°52'	+28.7	+36.0			BS					
74	660		219°54.6'	-1.3°	3.9	92°-	-23.0	-26.9		641.1		-516	-412	1,481,473	215,935	
75	440		"	-1.3°	9.6	91°-	-7.7	-17.3		650.7		-344	-275	1,481,645	216,072	
76	220		"	-1.3°	9.2	-		-9.2		658.8		-172	-137	1,481,817	216,210	
77	0				5.3	-		-5.3		662.7	TP	0	0	1,481,989	216,347	
78	220		34°52'	-1.3°	9.2	-		-9.2		658.8		+183	+122	1,482,172	216,469	
78	318		32°5'	-1.3°	10.4	-		-10.4		657.6		+273	+163	1,482,262	216,510	4-way E1. 458
79	440		34°52'	-1.3°	13.7	-		-13.7		654.3		+367	+243	1,482,356	216,590	
80	660		"	-1.3°	12.1	BH	-3.3	-15.4		652.6		+550	+365	1,482,539	216,712	
81	880		36°35'	-1.3°	13.0	-		-13.0		655.0	TP	+718-3	+508	1,482,704	216,855	
81	880				8.6	BH	-4.4	-13.0			TP					
	440		219°52' - 180°	-1.3°	+14.9	88°10'	-14.1	+0.8	655.8		BS	+344-3	+274			
	440				+12.3	88°30'	-11.5	+0.8			BS					
82	220		219°52'	-1.3°	2.2	88°-	+7.7	+5.5		661.3		-172	-137	1,482,873	216,992	
83	0				5.3	-		-5.3		650.5	TP	0	0	1,483,045	217,129	
84	220		34°-	-1.3°	11.1	-		-11.1		644.7		+185	+119	1,483,230	217,248	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
11/6/78		G. Cotcamp		R. Hulsey		6834		R.J.H.		3	8						
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
Georgia		Carlton		Georgia	Madison					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		
									655.8								
85	440		29° 44.7'	-1.3°	8.8	84	-2.2	-11.0		644.8	TP	+387.3	+210	1,483,429	217,339		
85	440				9.0	90° 16'	-2.0	-11.0			TP						
	880		202° 53.4' -180°	-1.3°	+33	88° 30'	-23.0	-19.7	625.1		BS	+818.3	+324				
	880				+1.3	88° 38'	-21.0	-19.7			BS						
86	660		202° 53.4'	-1.3°	3.0	88° 40'	+15.4	+12.4		637.5		-614	-243	1,483,630	217,420		
87	440			-1.3°	2.7	89° -	+7.7	+5.0		630.1		-409	-162	1,483,835	217,501		
88	220			-1.3°	3.5	89° -	+3.8	+0.3		625.4		-205	-81	1,484,039	217,582	set-up opposite station	
89	0				5.3	-		-5.3		619.8	TP	0	0	1,484,244	217,663		
90	220		20° 28.7'	-1.3°	14.1	92° -	-7.7	-21.8		603.3	TP	+208.3	+72	1,484,449	217,735		
90	220				13.5	92° 10'	-8.3	-21.8			TP						
	440		176° 42' +180°	-1.3°	+5.4	-		+5.4	608.7		BS	+439.3	-35				
	440				+6.2	89° 59'	-0.8	+5.4			BS						
≡	235		173° 54'	-1.3°	11.2	-		-11.2		597.5		-233	+30	1,484,652	217,730	bridge	
91	220			-1.3°	11.1	-		-11.1		597.6		-218	+28	1,484,667	217,728		
92	0				5.3	-		-5.3		603.4	TP	0	0	1,484,885	217,700		
93	223		344° 54.4'	-1.3°	4.2	88° -	+7.8	+3.6		612.3	TP	+214.3	-63	1,485,096	217,637	T.P. opposite station	
93	223				2.2	88° 30'	+5.8	+3.6			TP						
	225		191° 12.4' -180°	-1.3°	+6.2	-		+6.2	618.5		BS	+222.3	+39				
	225				+5.1	84	+1.1	+6.2			BS						
94	0				5.3	-		-5.3		613.2	TP	0	0	1,485,315	217,676		

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
11/6/78		G. Cotcamp		R. Hulsey		6834		R. J. H.		3		9			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Georgia		Carlton		Georgia		Madison								L.O. 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	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									618.5						
95	220		34°41.3'	-1.3°	11.8	-		-11.8		606.7		+184	+121	1,485,499	217,797
96	442		34°41.3'	-1.3°	12.0	91°-	-7.7	-19.7			TP	+369.3	+243	1,485,681	217,919
96	442				9.5	91°20'	-10.3	-19.8		598.7	TP				
	1100	1099	205°46.7'-180°	-1.3°	+10.4	92°-	+38.4	+48.8			BS	+1000.3	+455		
	1100				8.4	92°6'	+40.3	+48.7	647.4		BS				
	1000	999	205°53'	-1.3°	14.8	92°20'	-40.7	-55.5		591.9		-908	-416	1,485,770	217,958
	960		"	-1.3°	12.3	92°40'	-44.6	-56.9		590.5		-873	-399	1,485,805	217,975
97	880	879	205°46.7'	-1.3°	11.2	93°-	-46.0	-57.2		590.2		-800	-364	1,485,878	218,010
98	660	659	"	-1.3°	12.0	93°20'	-38.3	-50.3		597.1		-600	-273	1,486,078	218,101
99	440	439	"	-1.3°	12.4	93°20'	-25.5	-37.9		609.5		-400	-182	1,486,278	218,192
100	220		"	-1.3°	13.7	91°30'	-5.8	-19.5		627.9		-200	-91	1,486,478	218,283
101	0				5.3	-		-5.3		642.1	TP	0	0	1,486,678	218,374
102	220		24°38.3'	-1.3°	1.8	-		-1.8		645.6		+202	+87	1,486,880	218,461
103	440		"	-1.3°	3.3	-		-3.3		644.1		+404	+174	1,487,082	218,548
104	660		"	-1.3°	3.4	-		-3.4		644.0		+606	+261	1,487,284	218,635
105	880		"	-1.3°	5.5	89°20'	+10.2	+4.7		652.1		+808	+349	1,487,486	218,723
106	1100		24°38.3'	-1.1°	1.8	89°20'	+12.8	+11.0		658.4	TP	+1008+2	+439	1,487,688	218,813
106	1100				5.0	89°10'	+16.0	+11.0			TP				

unable to locate B.M.
1,485,770 +
Trail horiz. correct. y = -42'
x = 0'

bridge

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
11/7/78		G. Cotcamp		R. Hulsey		6834		R. J. H.		3	10				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE	PPM	PARTY MANAGER			
Georgia		Carlton 7 1/2'		Georgia		Madison						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
106										658.4				218,813	
	440		200° 54' -180°	-1.3°	+13.9	90° 40'	+5.1	+19.0	677.4		BS	+416+2	+143		
	440				+14.9	90° 32'	+4.1	+19.0			BS				
107	220		200° 5.4'	-1.3°	8.2	-		-8.2		669.2		-208	-71	1,487,898	218,885
108	0				5.3	-		-5.3		672.1	X	0	0	1,488,106	218,956
109	220		20° 22'	-1.3°	2.7	-		-2.7		674.7		+208	+72	1,488,314	219,028
110	440		20° 22'	-1.3°	8.0	-		-8.0		669.4	TP	+415+2	+145	1,488,523	219,101
110	440				10.2	TH	+2.2	-8.0			TP				
	668		202° 41.2' -180°	-1.3°	+0.5	-		+0.5	669.9		BS	+621+2	+246		
	668				+3.9	TH	-3.3	+0.6			BS				
111	448		202° 41.2'	-1.3°	13.7	-		-13.7		656.2		-417	-163	1,488,729	219,184
112	228		" "	-1.3°	13.7	-		-13.7		656.2		-212	-83	1,488,934	219,264
113	0				5.3	-		-5.3		664.6	X	0	0	1,489,146	219,347
114	226		76° 7'	-1.3°	11.0	-		-11.0		658.9	TP	+58+2	+218	1,489,206	219,565
114	226				9.9	TH	-1.1	-11.0			TP				paved road
	211		278° 50' -180°	-1.3°	+2.8	-		+2.8	661.7		BS	-28+2	+209		
	211				+3.9	TH	-1.1	+2.8			BS				curve
115	0			-	5.3	-		-5.3		656.4	X	0	0	1,489,180	219,774
116	220		22° 38'	-1.3°	3.2	-		-3.2		658.5		+205	+80	1,489,385	219,854
117	436		18° 20.7'	-1.3°	6.2	89° -	+7.6	+1.4			TP	+416+2	+129	1,489,598	219,903
117	436				3.0	89° 26'	+4.3	+1.3		663.0	TP				curve

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
11/7/78		G. Cotcamp		R. Hulsey		6834		R. J. H.		3	11						
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
Georgia		Carlton		Georgia	Madison					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		
117										663.0						219,903	
	1100		198°29'	-1.3°	7.1	91°-	+19.2	+24.3	687.3		BS	+10.50	+329				
	1100				+14.7	96°30'	+9.6	+24.3			BS						
#	1020		199°55'	-1.3°	4.3	91°-	-17.8	-22.1		665.2		-965	-329	1,489,683	219,903		4-Way Intersect.
118	880		206°33'	-1.3°	3.5	91°-	-15.4	-18.9		668.4		-831	-290	1,489,817	219,942		
119	660		"	-1.3°	11.7	8H	-3.3	-15.0		672.3		-623	-218	1,490,025	220,014		
120	440		"	-1.3°	11.3	-		-11.3		676.0		-415	-145	1,490,233	220,087		
121	220		"	-1.3°	7.2	-		-7.2		680.1		-208	-73	1,490,440	220,159		
122	0		"		5.3	-		-5.3		682.0	X	0	0	1,490,648	220,232		
123	220		18°37'	-1.3°	7.5	-		-7.5		679.8		+210	+65	1,490,858	220,297		
124	440		"	-1.3°	9.1	-		-9.1		678.2		+420	+131	1,491,068	220,363		
125	660		16°45'	-1.3°	8.8	-		-8.8		678.5		+636	+176	1,491,284	220,408		
126	877		14°51.2'	-1.3°	12.0	-		-12.0		675.3	TP	+852	+209	1,491,500	220,448		Curve
126	877		"		7.6	8H	-4.4	-12.0			TP						
	658	657	181°8.6'-180°	-1.3°	+5.8	87°-	-34.4	-28.6	646.7		BS	+660	0				Curve
	658		"		+1.2	87°24'	-29.8	-28.6			BS						
127	440	439	176°42'	-1.3°	3.4	87°-	+23.0	+19.6		666.3		-438	+35	1,491,722	220,476		
128	220		"	-1.3°	4.3	87°-	+11.5	+7.2		653.9		-219	+18	1,491,941	220,459		
129	0		"		5.3	-		-5.3		641.4	X	0	0	1,492,160	220,441		
130	220		356°-	-1.3°	10.8	92°-	-7.7	-18.5		628.2		+219	-20	1,492,379	220,421		
131	440	439	"	-1.3°	8.2	93°-	-23.0	-31.2		615.5		+437	-41	1,492,597	220,400		

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
11/7/78		G. Cotcamp		R. Hulsey		6834		R. J. H.		3	12				
AREA		TOPO MAP		STATE		COUNTY		TWP		PARTY MANAGER					
Georgia		Carlton		Georgia		Madison				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 T TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									646.7						
132	660	659	359°35'	-1.3°	7.8	93°-	-34.5	-42.3		604.4	TP	+656	-75	1,492,816	220,366
132	660				14.3	92°26'	-28.0	-42.3			TP				
	438		148°26.7' +180°	-1.3°	+1.8	89°-	-7.6	-5.8	598.6		BS	+369	-236		curve
	438				4.4	88°40'	-10.2	-5.8			BS				
133	220		145°31'	-1.3°	2.5	-		-2.5		596.1		-178	+129	1,493,007	220,259
134	0				5.3	-		-5.3		593.3	T	0	0	1,493,185	220,130
135	222		331°52.7'	-1.3°	12.1	-		-12.1		586.5	TP	+194	-108	1,493,319	220,022
135	222				13.2	TF	+1.1	-12.1			TP				
	220		184°56' -180°	-1.3°	+2.3	87°-	-11.5	-9.2	577.3		BS	+220	+11		
	220				+1.1	87°20'	-10.2	-9.1			BS				
136	0				5.3	-		-5.3		572.0	T	0	0	1,493,599	220,033
137	221		29°26'	-1.3°	13.8	91°-	-3.9	-17.7		559.6	TP	+195	+105	1,493,794	220,138
137	221				14.8	90°44'	-2.8	-17.6			TP				
	658		232°56' -180°	-1.3°	+7.7	89°-	-11.5	-3.8	555.8		BS	+407	+517		
	658				+1.2	89°34'	-5.0	-3.8			BS				
138	440		232°56'	-1.3°	4.3	-		-4.3		551.5		-273	-345	1,493,928	220,310
139	220			-1.3°	6.2	-		-6.2		549.6		-137	-172	1,494,064	220,483
140	0				5.3	-		-5.3		550.5	T	0	0	1,494,201	220,655
141	220		21°38'	-1.3°	4.2	-		-4.2		551.6		+206	+76	1,494,407	220,731
142	440		16°10'	-1.3°	2.0	89°-	+7.7	+5.7		561.5		+425	+113	1,494,626	220,768

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-44F

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
11/7/78		G. Cotcamp		R. Hulsey		6834		R. J. H		3	13					
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER						
Georgia		Carlton		Georgia	Madison					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
									555.8							
143	660		14°24'	-1.3°	2.3	88°-	+23.0	+20.7		576.5		+643	+150	1,494,844	220,805	
144	880	879	13°21'	-1.3°	9.3	87°-	+46.0	+36.7		592.5		+860	+184	1,495,066	220,839	
145	1100	1098	12°48'	-1.3°	7.4	87°-	+57.5	+50.1		605.9		+1076	+219	1,495,277	220,874	
146	1318	1316	12°33'	-1.3	6.1	87°-	+68.9	+62.8		618.6	TP	+1290	+261	1,495,491	220,916	curve
146	1318				1.4	87°12'	+64.3	+62.9			TP					
	870		175°49'+180°	-1.3°	+12.0	91°-	+15.2	+27.2	645.8		BS	+866	-80			curve
	870				+14.6	90°50'	+12.6	+27.2			BS					
147	660		172°-	-1.3°	9.6	91°-	-11.5	-21.1		624.7		-651	+107	1,495,706	220,943	
148	440		169°42'	-1.3°	13.5	91°-	-7.7	-21.2		624.6		-431	+88	1,495,926	220,924	
149	220		'	-1.3°	10.8	91°-	-3.8	-14.6		631.2		-216	+44	1,496,141	220,880	
150	0				5.3	-		-5.3		640.5	X	0	0	1,496,357	220,836	
151	220		350°29'	-1.3°	3.8	-		-3.8		642.0		+216	-41	1,496,573	220,795	
152	440		'	-1.3°	6.1	-		-6.1		639.7		+432	-83	1,496,789	220,753	
153	660		'	-1.3°	4.0	-		-4.0		641.8		+648	-124	1,497,005	220,712	
154	880		'	-1.3°	1.8	TH	+4.4	+2.6		648.4		+864	-165	1,497,221	220,671	
155	1100		352°29'	-1.3°	8.4	89°-	+19.2	+10.8		656.6	TP	+1088	-165	1,497,445	220,671	
155	1100				1.4	89°22'	+12.2	+10.8			TP					
	660		180°34.5'-180°	-1.3°	+12.0	-		+12.0	668.6		BS	+660	-6			
	660				+8.7	BH	+3.3	+12.0			BS					
156	440		180°34.5'	-1.3°	7.5	-		-7.5		661.1		-440	+6	1,497,665	220,671	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445'

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
11/7/78		G. Cotcamp		R. Hulsey		6834		R. J. H.		3	14			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE	PPM	PARTY MANAGER		
Georgia		Carlton		Georgia		Madison						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.	
									668.6					
157	220		180° 34.5'	-1.3°	6.2	-		-6.2		662.4		-220	+3	1,497,885 220,668
158	0				5.3	-		-5.3		663.3	X	0	0	1,498,105 220,665
159	220		5° 59.6'	-1.3°	6.8	-		-6.8		661.8		+219	+18	1,498,324 220,683
IF	251		2° 26'	-1.3°	7.0	-		-7.0		661.6		+251	+6	1,498,356 220,671 4-Way Intersect (Line #2)
BM	310		340° 35.5'	-1.3°	9.8	89°	+5.4	-4.4		664.2	BM	+290	-109	1,498,395 220,556 BM E1. 664
160	440		5° 59.6'	-1.3°	8.2	-		-8.2		660.4		+439	+36	1,498,544 220,701 1,498,400 + 220,560 (scaled)
161	660			-1.3°	10.4	-		-10.4		658.2		+658	+54	1,498,763 220,719
162	880		5° 59.6'	-1.3°	11.5	BH	-4.4	-15.9		652.7	TP	+877	+72	1,498,982 220,737
162	880				13.3	90° 10'	-2.6	-15.9			TP			
	1097		194° 31.7' - 180°	-1.1°	12.3	89° 24'	-11.5	+9.2	643.5		BS	+1067	+255	S-curve
	1097				1.0	89° 28'	-10.2	-9.2			BS			
163	878		194° 31.7'	-1.1°	12.5	89°	+15.3	+2.8		646.3		-854	-204	1,499,195 220,788
IF	710		175° 34'	-1.1°	12.1	89°	+12.4	+0.3		643.8		-687	-177	1,499,362 220,815 T-rd (east)
164	660		195° 7'	-1.1°	11.7	89°	+11.5	-0.2		643.3		-640	-160	1,499,409 220,832
165	440		194° -	-1.1°	1.0	-		-1.0		642.5		-429	-98	1,499,620 220,894
166	220		188° 22'	-1.1°	2.4	-		-2.4		641.1		-218	-28	1,499,831 220,964
IF	209		189° 3'	-1.1°	2.6	-		-2.6		640.9		-207	-29	1,499,842 220,963 Y-intersect. E1. 640
167	0				5.3	-		-5.3		638.2	X	0	0	1,500,049 220,992
168	220		332° 17'	-1.1°	9.5	-		-9.5		634.0		+193	-106	1,500,242 220,886
169	440			-1.1°	13.0	BH	-2.2	-15.2		628.3		+386	-212	1,500,435 220,780

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
11/7/78		G. Cotcamp		R. Hulsey		6834		G.W.C.		3	15				
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
Georgia		Carlton/Bowman		Georgia		Madison					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 I TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									643.5						
170	660		332° 17'	-1.1°	11.9	91° -	-11.5	-23.4		620.1		+578	-318	1,500,627	220,674
171	880		330° 43'	-1.1°	14.2	91° 10'	-17.9	-32.1		611.4	TP	+759	-445	1,500,808	220,547
171	880				12.7	91° 16'	-19.4	-32.1			TP				
	438	437	131° 19.5' + 180°	-1.1°	+0.8	87° -	-22.9	-22.1			BS	+282	-334		
	438				+4.5	86° 30'	-26.7	-22.2	589.2		BS				curve
172	220		124° 29'	-1.1°	1.0	87° -	+11.5	+10.5		599.7		-121	+184	1,500,969	220,397
173	0				5.3	-		-5.3		583.9	I	0	0	1,501,090	220,213
174	220		310° 53'	-1.1°	13.0	91° -	-3.8	-16.8			TP	+41	-169	1,501,231	220,044
174	220				14.7	90° 34'	-2.2	-16.9		572.3	TP				
	660		152° 58.2' + 180°	-1.1°	+1.8	-		+1.8	574.1		BS	+582	-311		
	660				+5.1	TH	-3.3	+1.8			BS				
175	440		154° 52'	-1.1°	5.3	-		-5.3		568.8		-395	+194	1,501,418	219,927
176	220		"	-1.1°	7.1	-		-7.1		567.0		-197	+97	1,501,616	219,830
177	0				5.3	-		-5.3		568.8	I	0	0	1,501,813	219,733
178	220		353° 29'	-1.1°	5.9	88° -	+7.7	+1.8		575.9		+218	-29	1,502,031	219,704
179	440		"	-1.1°	4.7	88° -	+15.3	+10.6		584.7		+436	-58	1,502,249	219,675
180	660		"	-1.1°	4.8	88° -	+23.0	+18.2		592.3		+654	-87	1,502,467	219,646
I	680		353° 4'	-1.1°	4.8	88° -	+23.7	+18.9		593.0		+673	-95	1,502,486	219,638
181	880	879	353° 29'	-1.1°	6.7	88° -	+30.7	+24.0		598.1		+871	-117	1,502,684	219,616
182	1100	1099	"	-1.1°	8.0	88° -	+38.4	+30.4		604.5		+1089	-146	1,502,902	219,587

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
11/7/78		G. Co. Corp		R. Hulsey		6834		R. J. H.		3	16						
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
Georgia		Cotton Bowman		Georgia	Madison					L. O. Davis							
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS	
												LAT.	DEP.	Y	X		
									574.1								
183	1320	1319	353°29'	-1.1°	8.3	88°-	+46.0	+37.7		611.8		+1307	-175	1,503,120	219,558		
184	1540	1539	353°29'	-1.1°	11.3	88°-	+53.7	+42.4		616.5	TP	+1525	-204	1,503,338	219,529		
184	1540				6.0	88°12'	+48.4	+42.4			TP						
	880		173°16.7' +180°	-1.1°	+14.5	90°30'	+7.7	+22.2	638.7		BS	+872	-120				
	880				+14.0	90°32'	+8.2	+22.2			BS						
185	660		173°16.7'	-1.1°	10.3	91°-	-11.5	-21.8		616.9		-654	+90	1,503,556	219,499		
186	440			-1.1°	12.0	91°-	-7.7	-19.7		619.0		-436	+60	1,503,774	219,469		
187	220			-1.1°	12.5	-		-12.5		626.2		-218	+30	1,503,992	219,439		
188	0				5.3	-		-5.3		633.4	TP	0	0	1,504,210	219,409		
189	220		343°30'	-1.1°	6.1	88°-	+7.7	+1.6		640.3		+210	-67	1,504,428	219,342		
190	437		333°16'	-1.1°	6.8	88°-	+15.2	+8.4		647.1		+386	-204	1,504,596	219,205		
191	650		328°43'	-1.1°	12.9	88°-	+22.7	+9.8			TP	+599	-348	1,504,759	219,061	curve	
191	650				5.5	88°40'	+15.1	+9.6		648.3	TP					E.O.D.	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
11/8/78		G. Cotcamp		R. Hulsey		6837		R. J. H.		3	17			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE	PPM	PARTY MANAGER		
Georgia		Bowman		Georgia		Madison						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.	
191										648.3				
	220		152° 37.7' - 180°	-1.1°	+2.4	-		+2.4	650.7		BS	+193	-105	
	220				+3.5	TH	-1.1	+2.4			BS			
192	0				5.3	-		-5.3	645.4		X	0	0	1,504,952 218,956
193	220		4° 39'	-1.1°	1.3	-		-1.3	649.4		TP	+220	+14	1,505,172 218,970
194	437		8° 44'	-1.1°	1.6	89° -	+7.6	+6.0	656.7		TP	+433	+58	1,505,385 219,014 curve
194	437				5.4	88° 30'	+11.4	+6.0			TP			last sta. on pavement
	217		197° 44.5' - 180°	-1.1°	+9.1	87° -	-11.3	-2.2	654.5		BS	+208	+62	curve
	217				+10.0	86° 46'	-12.2	-2.2			BS			
194	70		203° -	-1.1°	2.4	87° -	+3.7	+1.3	655.8			-65	-26	1,505,528 219,050 offset 4-way El. 658
195	0				5.3	-		-5.3	649.2		X	0	0	1,505,593 219,076 dirt road
196	220		19° 55.7'	-1.1°	14.8	91° -	-3.8	-18.6			TP	+208	+71	1,505,801 219,147
196	220				14.2	91° 10'	-4.5	-18.7	635.8		TP			
	440		206° 50.7' - 180°	-1.1°	+5.0	88° -	-15.3	-10.3	625.5		BS	+396	+191	
	440				+3.0	88° 16'	-13.3	-10.3			BS			
197	220		202° 35'	-1.1°	2.3	89° -	+3.8	+1.5	627.0			-205	-81	1,505,992 219,257
198	0				5.3	-		-5.3	620.2		X	0	0	1,505,197 219,338
199	220		18° 51'	-1.1°	1.1	87° -	+11.5	+10.4	635.9			+210	+67	1,506,407 219,405
200	440	439	15° 9.7'	-1.1°	6.1	86° 50'	+24.3	+18.2	643.7		TP	+426	+107	1,506,623 219,445
200	440				5.6	86° 54'	+23.8	+18.2			TP			

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
11/8/78		G. Cotcamp		R. Hudson		6837		R. J. H.		3	18					
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER						
Georgia		Bowman		Georgia	Madison					L. J. 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 +	EAST +	COORDINATES		REMARKS
												SOUTH -	WEST -	Y	X	
												LAT.	DEP.			
200										643.7						
	220		203°37'-180°	-1.1°	+14.5	84	+1.1	+15.6			BS	+204	+82			
	220				+4.0	93°-	+11.5	+15.5	659.2		BS					
201	0				5.3	-		-5.3		653.9	TP	0	0	1506207	219,527	
202	219	218	0°5'	-1.1°	7.5	85°-	+19.0	+11.5		670.7	TP	+218	-4	1,507,045	219,523	curve
202	219				6.2	85°20'	+17.8	+11.6			TP					
	440	439	172°34'+180°	-1.1°	+5.4	86°-	-30.6	-25.2	645.5		BS	+434	-65			
	440				+2.1	86°26'	-27.3	-25.2			BS					
203	220		172°34'	-1.1°	1.8	87°-	+11.5	+9.7		655.2		-218	+33	1,507,261	219,491	
204	0				5.3	-		-5.3		640.2	TP	0	0	1,507,479	219,458	
205	222		8°12'	-1.1°	13.0	91°-	-3.9	-16.9		628.6	TP	+220	+27	1,507,698	219,485	
205	222				14.6	90°36'	-2.3	-16.9			TP					
	220		206°57'-180°	-1.1°	+14.3	87°48'	-8.4	+5.9	634.5		BS	+198	+96			
	220				+14.8	87°40'	-8.9	+5.9			BS					
206	0				5.3	-		-5.3		629.2	TP	0	0	1,507,897	219,581	
207	220		56°23'	-1.1°	4.9	88°-	+7.7	+2.8			TP	+125-2	+181	1,508,020	219,762	
207	220				1.1	89°-	+3.8	+2.7		637.2	TP					
	220		225°36'-180°	-1.1°	+8.4	-		+8.4	645.6		BS	+157-2	+154			
	220				+9.5	TH	-1.1	+8.4			BS					
					3.8	93°-										
208	0				5.3	-		-5.3		640.3	TP	0	0	1,508,175	219,916	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
11/8/78		G. Cotcamp		R. Hulsey		6834		R.J.H.		3		19			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Georgia		Bowman		Georgia		Madison								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
									645.6						
209	220		25°38'	-1.1°	3.8	93°	-11.5	-15.3		630.3		+200	+91	1,508,375	220,007
210	435		19°23'	-1.1°	14.8	84°	-2.2	-17.0		628.6	TP	+414-2	+134	1,508,587	220,050
210	435				14.5	90°20'	-2.5	-17.0			TP				
	220		169°36.6' +180°	-1.1°	+4.2	-		+4.2		632.8	BS	+215-2	-44		
	220				+5.3	TH	-1.1	+4.2			BS				
211	0				5.3	-		-5.3		627.5	TP	0	0	1,508,800	220,006
212	220	219	349°31.3'	-1.1°	6.0	94°46'	-18.2	-24.2		608.6		+215	-44	1,509,015	219,962
213	440	439	349°31.3'	-1.1°	14.1	93°20'	-25.5	-39.6		593.2	TP	+430-2	-88	1,509,228	219,918
213	440				12.8	93°30'	-26.8	-39.6			TP				
	440		175°49.7' +180°	-1.1°	+14.9	90°42'	+5.4	+20.3		613.5	BS	+438-2	-40		
	440				+14.7	90°44'	+5.6	+20.3			BS				
214	220		175°49.7'	-1.1°	10.0	-		-10.0		603.5		-219	+20	1,509,445	219,898
215	0				5.3	-		-5.3		608.2	TP	0	0	1,509,664	219,878
216	215		31° -	-1.1°	3.2	-		-3.2		610.3	TP	+186-2	+107	1,509,848	219,985
216	215				4.3	TH	+1.1	-3.2			TP				
	220		229°37.7' +180°	-1.1°	+2.8	-		+2.8		613.1	BS	+159-1	+152		
	220				+3.9	TH	-1.1	+2.8			BS				
217	0				5.3	-		-5.3		607.8	TP	0	0	1,510,006	220,137
218	220		31°44'	-1.1°	4.1	92°	-7.7	-11.8		601.3		+189	+112	1,510,195	220,249

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
1/18/78		G. Cotcamp		R. Hulsey		6834		R.J.H.		3	20				
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER					
Georgia		Bowman		Georgia	Madison					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
									613.1						
219	440		26°23.7'	-1.1°	10.0	91°44'	-13.3	-23.3		589.8	TP	+398	+188	1,510,404	220,325
219	440				9.5	91°48'	-13.8	-23.3			TP				
	440		215°23'-180°	-1.1°	+2.8	89°30'	-3.8	-1.0			BS	+363	+248		
	440				5.3	89°10'	-6.4	-1.1	588.7		BS				
220	220		215°23'	-1.1°	5.8	-		-5.8		582.9		-182	-124	1,510,585	220,449
221	0				5.3	-		-5.3		583.4	X	0	0	1,510,767	220,578
222	222		16°15.7'	-1.1°	14.2	-		-14.2		574.5	TP	+214	+58	1,510,981	220,681
222	222				13.1	8H	-1.1	-14.2			TP				
	223		233°56.3'-180°	-1.1°	+6.0	87°-	-11.7	-5.7	568.8		BS	+135	+178		
	223				+2.1	88°-	-7.8	-5.7			BS				
223	0				5.3	-		-5.3		563.5	X	0	0	1,511,116	220,809
224	216		13°1'	-1.1°	13.6	93°-	-11.3	-24.9		543.9	TP	+211	+45	1,511,327	220,847
224	216				12.9	93°10'	-11.9	-24.8			TP				
	220		182°28.7'-180°	-1.1°	+4.8	89°-	-3.8	+1.0	544.9		BS	+220	+5		
	220				+4.6	89°4'	-3.6	+1.0			BS				
X	122		190°44'	-1.1°	8.3	-		-8.3		536.6		-120	-20	1,511,427	220,939
225	0				5.3	-		-5.3		539.6	X	0	0	1,511,547	220,859
226	220	219	17°17'	-1.1°	3.5	86°-	+15.3	+11.8		556.7	TP	+210	+61	1,511,757	220,920
226	220				1.6	86°30'	+13.4	+11.8			TP				

bridge (weak)

T.P. opposite station

curve

SURVEY NOTES-HIGH RESOLUTION DATA

Geosource Inc.

GEO-445

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
11/8/78		G. Cotcamp		R. Hulsey		6834		R. J. H.		3	21					
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE	PPM	PARTY MANAGER				
Georgia		Bowman		Georgia		Madison						L. O. Davis				
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
226										556.7						
	209		207°3' -180°	-1.1°	+6.9	-		+6.9	563.6		BS	+188	+91		shooting across bend	
	209			-	8.0	TH	-1.0	+7.0			BS					
X	65		266°48'	-1.1°	6.5	-		-6.5		557.1		-5	-65	1,511,940	220,946	T-intersect
X	117		251°13.5'	-1.1°	7.7	-		-7.7		555.9		-40	-110	1,511,905	220,901	chiseled square E1.555
227	0				5.3	-		-5.3		558.3	X	0	0	1,511,945	221,911	first sta on Rt. 172
228	220		64° -	-1.1°	2.7	-		-2.7		560.9		+100	+196	1,512,045	221,207	
229	438		55°30'	-1.1°	2.9	-		-2.9		560.7		+255	+356	1,512,200	221,367	
230	650		53°8.3'	-1.1°	6.8	-		-6.8		556.8	TP	+400	+512	1,512,345	221,523	
230	650				10.0	TH	+3.3	-6.8			TP					
	2200	2196	230°31.6' -180°	-1.1°	+5.3	TH	-11.0	-5.7	551.1		BS	+1428	+1668			curve
	2200				+13.5	89°30'	-19.2	-5.7			BS					
231	1980		230°18'	-1.1°	8.8	TH	+9.9	+1.1		552.2		-1294	-1499	1,512,479	221,692	
232	1760		229°41'	-1.1°	5.9	-		-5.9		545.2		-1164	-1320	1,512,609	221,871	
233	1540		228°58'	-1.1°	12.4	90°12'	-5.4	-17.8		533.3		-1033	-1142	1,512,740	222,049	
234	1320			-1.1°	8.3	91°6'	-25.3	-33.6		517.5		-886	-979	1,512,887	222,212	
235	1100	1099		-1.1°	5.3	92°14'	-42.8	-48.1		503.0		-737	-815	1,513,036	222,376	
236	880															
X	965	964	229°26'	-1.1°	14.5	92°24'	-40.4	-54.9		496.2		-641	-720	1,513,132	222,471	T-rd (east) ↑
236	880	879	228°58'	-1.1°	11.7	93° -	-46.0	-57.7		493.4		-590	-652	1,513,183	222,539	on bridge Madison Co.
X	760	759	229°26'	-1.1°	13.8	93°20'	-44.1	-57.9		493.2		-505	-567	1,513,268	222,624	bridge (Broad River)

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445'

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
11/8/78		J. S. Kemp		R. Hulsey		6834		R. J. H.		3	22				
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER					
Georgia		Kouman		Georgia	Elbert					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
									551.1						
237	660	658	228°58'	-1.1°	9.6	94°	-45.9	-55.5		495.6		-441	-488	1,513,332	222,703 on bridge
238	440	439	"	-1.1°	11.0	94°	-30.6	-41.6		509.5		-295	-326	1,513,478	222,865 Elbert Co.
239	220		"	-1.1°	12.0	93°	-11.5	-23.5		527.6		-148	-163	1,513,625	223,028 ↓
240	0				5.3	-		-5.3		545.8	TP	0	0	1,513,773	223,191
241	220	219	34°53.3'	-1.1°	2.6	86°	+15.3	+12.7		563.8	TP	+182	+122	1,513,955	223,313
241	220				0.8	86°30'	+13.4	+12.6			TP				
	658		188°18.2'-180°	-1.1°	+13.7	92°8'	+24.5	+38.2	602.0		BS	+653	+82		curve
	658				+14.5	92°4'	+23.7	+38.2			BS				
242	440		187°19'	-1.1°	12.2	91°20'	-10.2	-22.4		579.6		-437	-48	1,514,171	223,347
243	220		"	-1.1°	11.2	-		-11.2		590.8		-219	-24	1,514,389	223,371
244	0				5.3	-		-5.3		596.7	TP	0	0	1,514,608	223,395
245	220		6°56'	-1.1°	2.1	-		-2.1		599.9		+219	+22	1,514,827	223,417
246	440		"	-1.1°	8.9	-		-8.9		593.1		+438	+45	1,515,046	223,440
247	660		"	-1.1°	13.5	84°	-3.3	-16.8		585.2		+657	+67	1,515,265	223,462
248	880		"	-1.1°	7.0	-		-7.0		595.0		+875	+89	1,515,483	223,484
249	1100		"	-1.1°	12.8	89°	+19.2	+6.4		608.4		+1094	+112	1,515,702	223,507
250	1320		"	-1.1°	2.8	89°	+23.0	+20.2		622.2		+1313	+134	1,515,921	223,529
251	1540	1539	6°34.2'	-1.1°	5.0	86°30'	+40.3	+35.3		637.3	TP	+1532	+147	1,516,140	223,542
251	1540				1A	88°38'	+36.7	+35.3			TP				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
11/8/78		G. Catcamp		R. H. H. H.		6834		K. J. H.		3	23			
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
Georgia		Bowman		Georgia	Elbert					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.	
251										637.3				
	440		201° 16.3' - 180°	-1.1°	+13.8	90° 30'	+3.8	+17.6	654.9		BS	+413	+152	
	440				+13.1	90° 30'	+4.6	+17.7			BS			
252	220		205° -	-1.1°	9.0	-		-9.0		645.9		-201	-89	1,516,352 223,605
253	0				5.3	-		-5.3		649.6	TP	0	0	1,516,553 223,694
254	220		37° -	-1.1°	3.3	-		-3.3		651.6		+178	+129	1,516,731 223,823
255	440		41° 20'	-1.1°	3.1	-		-3.1		651.8	TP	+336	+284	1,516,889 223,978
255	440				5.3	TH	+2.2	-3.1			TP			
	440		222° 23.2' - 180°	-1.1°	+0.7	-		+0.7	652.5		BS	+331	+290-2	
	440				+2.9	TH	-2.2	+0.7			BS			
256	220		215° 30'	-1.1°	2.4	-		-2.4		650.1		-182	-124	1,517,038 224,142
257	0				5.3	-		-5.3		647.2	TP	0	0	1,517,220 224,266
A	102		13° 15'	-1.1°	8.3	-		-8.3		644.2		+100	+21	1,517,320 224,287 T-rd (southeast)
BM	190		28° 47'	-1.1°	12.5	-		-12.5		640.0		+168	+88	1,517,388 224,354 BM El. 640
258	220		15° 40'	-1.1°	9.9	-		-9.9		642.6		+213	+55	1,517,433 224,321 1957 227 CMN
259	430		3° 53.8'	-1.1°	12.9	-		-12.9		639.6	TP	+429	+21-3	1,517,649 224,284 sharp curve
259	430				10.7	BH	-2.2	-12.9			TP			
	654		142° 4' + 180°	-1.1°	+1.5	89° -	-11.4	-9.9	629.7		BS	+508	-412-3	S-curve
	654				+5.3	88° 40'	-15.2	-9.9			BS			
260	440		138° -	-1.1°	1.2	89° -	+7.7	+6.5		636.2		-321	+301	1,517,836 224,170
261	220			-1.1°	2.3	89° -	+3.8	+1.5		631.2		-161	+150	1,517,996 224,019

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
11/8/78		G. Catcamp		R. Hulsey		6834		R. J. H.		3		24				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
Georgia		Bowman		Georgia		Elbert								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	X
									629.7							
262	0				5.3	-		-5.3		624.4	TP	0	0	1,518,151	223,869	
263	220		336°32.2'	-1.1°	14.2	84	-1.1	-15.3		614.4	TP	+200	-91-3	1,518,357	223,775	
263	220				14.0	90°20'	-1.3	-15.3			TP					
	436	435	188°41'-180°	-1.1°	+7.9	87°-	-22.8	-14.9	599.5		BS	+431	+57-3		Curve	
	436				+9.2	86°50'	-24.0	-14.8			BS					
264	220		197°44'	-1.1°	3.3	88°-	+7.7	+4.4		603.9		-211	-63	1,518,577	223,766	
265	0				5.3	-		-5.3		594.2	TP	0	0	1,518,788	223,829	
266	21		343°56'	-1.1°	5.9	-		-5.9		593.6		+20	-6	1,518,808	223,823	Y-intersect. (west)
266	220		19°28'	-1.1°	11.4	91°-	-3.8	-15.2		584.3		+209	+69	1,518,997	223,898	
267	440			-1.1°	10.1	92°-	-15.3	-25.4		574.1		+418	+139	1,519,206	223,968	
268	660		19°28'	-1.1°	8.2	92°-	-23.0	-31.2		568.3		+626	+208	1,519,414	224,037	
269	880	879	19°28'	-1.1°	1.4	91°54'	-29.2	-30.6		568.9	TP	+834	+277-3	1,519,622	224,103	
269	880				1.8	91°52'	-28.7	-30.5			TP					
	443		206°20'-180°	-1.1°	+2.3	TH	-2.2	+0.1	569.0		BS	+401	+189-3			
	443				+4.0	89°30'	-3.9	+0.1			BS					
270	220		205°19'	-1.1°	0.3	TH	+1.1	+0.8		569.8		-201	-90	1,519,822	224,199	
271	0				5.3	-		-5.3		563.7	TP	0	0	1,520,023	224,289	
272	220		25°20'	-1.1°	13.7	91°-	-3.8	-17.5		551.5		+201	+90	1,520,224	224,379	
273	440			-1.1°	10.4	92°-	-15.3	-25.7		543.3		+401	+181	1,520,424	224,470	
273	478		23°24'	-1.1°	9.8	92°-	-16.7	-26.5		542.5		+442	+181	1,520,465	224,470	bridge

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
11/8/78		G. Cotcamp		R. Hickey		6834		R. J. H.		3		25			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Georgia		Bowman		Georgia		Elbert								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									569.0						
274	660		25°20'	-1.1°	7.1	92°	-23.0	-30.1		538.9		+602	+271	1,520,625	224,560
275	880		"	-1.1°	1.6	92°	-30.7	-32.3		536.7		+802	+361	1,520,825	224,650
276	1100		25°20'	-1.1°	5.2	91°16'	-24.3	-29.5		539.5	TP	+1003	+451-3	1,521,026	224,737
276	1100				3.9	91°20'	-25.6	-29.5			TP				
	660		208°27.1'-180°	-1.1°	+13.0	92°	+23.0	+36.0	575.5		BS	+586	+303-3		
	660				+10.3	92°4'	+25.7	+36.0			BS				
277	440	439	208°27.1'	-1.1°	8.1	93°	-23.0	-31.1		544.4		-390	-202	1,521,222	224,835
278	220		"	-1.1°	12.1	92°	-7.7	-19.8		555.7		-195	-101	1,521,417	224,936
279	0				5.3	-		-5.3		570.2	π	0	0	1,521,612	225,037
280	220		40°4'	-1.1°	0.3	88°	+7.7	+7.4		582.9		+171	+138	1,521,783	225,175
281	440	439	"	-1.1°	4.3	87°	+23.0	+18.7		594.2		+341	+276	1,521,953	225,313
282	660	659	43°59.5'	-1.1°	2.7	87°	+34.5	+31.8		607.3	TP	+483	+449	1,522,095	225,486
282	660				1.2	87°8'	+33.0	+31.8			TP				
	420		235°2.5'-180°	-1.1°	+13.1	91°	+7.3	+20.4	627.7		BS	+247	+340-3		shooting across corner
	420				+14.3	90°50'	+6.1	+20.4			BS				
283	200		233°25'	-1.1°	10.7	-		-10.7		617.0		-122	-158	1,522,220	225,665
283	38		196°10'	-1.1°	7.3	-		-7.3		620.4		-37	-10	1,522,310	225,813
284	0				5.3	-		-5.3		622.4	π	0	0	1,522,342	225,823
285	220		2°40.2'	-1.1°	1.9	87°	+11.5	+9.6		637.3		+220	+6	1,522,562	225,829
286	440	439	"	-1.1°	0.9	87°	+23.0	+22.1		649.8		+439	+12	1,522,781	225,835

horiz. correct. y = -15'
x = +32'
1,522,310 + 225,810 (scaled)
T-intersect (north)

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
11/9/78		G. CoTeamp		R. Hulsey		6834		R. J. H.		3		26			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Georgia		Bowman		Georgia		Elbert								L.O. Daw's	
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
									627.7						
287	660	659	2°40.2'	-1.1°	6.1	87°	+34.5	+28.4		656.1	TP	+659	+18	1,523,001	225,841
287	660				8.0	86°50'	+36.4	+28.4			TP				
	440		179°9.3'+180°	-1.1°	+13.5	84°	+2.2	+15.7		671.8	BS	+440	-15		
	440				+14.4	90°10'	+1.3	+15.7			BS				
288	220		175°54'	-1.1°	9.2	-		-9.2		662.6		-219	+20	1,523,222	225,846
289	0				5.3	-		-5.3		666.5	X	0	0	1,523,441	225,826
290	220		340°8'	-1.1°	10.2	-		-10.2		661.6		+205	-79	1,523,646	225,747
291	440		337°24'	-1.1°	12.1	84°	-2.2	-14.3		657.5		+403	-177	1,523,844	225,649
292	658		334°-	-1.1°	9.3	-		-9.3		662.5		+586	-300	1,524,021	225,526
293	876		332°44.5'	-1.1°	4.4	74°	+4.4	-0.0		671.8	TP	+771	-416	1,524,212	225,410
293	876				4.6	89°42'	+4.6	-0.0			TP				curve
	880		139°12.9'+180°	-1.1°	+5.5	89°40'	-5.1	+0.4		672.2	BS	+655	-588		
	880				+10.1	89°22'	-9.7	+0.4			BS				
294	660		139°12.9'	-1.1°	7.9	89°	+11.5	+3.6		675.8		-491	+441	1,524,376	225,263
295	440		"	-1.1°	1.1	-		-1.1		671.1		-328	+294	1,524,539	225,116
296	220		"	-1.1°	5.3	-		-5.3		666.9		-164	+147	1,524,703	224,969
297	0				5.3	-		-5.3		666.9	X	0	0	1,524,867	224,822
298	220		327°46'	-1.1°	0.9	-		-0.9		671.3		+184	-121	1,525,051	224,701
299	440		330°25'	-1.1°	4.4	89°	+7.7	+3.3		675.5		+378	-225	1,525,245	224,597
300	660		331°17'	-1.1°	4.1	89°	+11.5	+7.4		679.6		+573	-328	1,525,440	224,494

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
11/9/78		G. Cotcamp		R. Hulsey		6834		R. J. H.		3		27				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
Georgia		Bowman		Georgia		Elbert								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
									672.2							
301	880		333° 14.8'	-1.1°	0.2	89°	+15.4	+15.2		687.4		+778	-411	1,525,615	224,411	
302	1100	1099		-1.1°	9.8	88°	+38.4	+28.6		700.8		+972	-513	1,525,831	224,308	
303	1320	1319	333° 14.8'	-1.1°	6.7	88°	+46.0	+39.3		711.5	TP	+1166	-616	1,526,033	224,206	
303	1320				2.8	88° 10'	+42.2	+39.4			TP					
	880		166° 53.3' +180°	-1.1°	+11.3	-		+11.3	722.8		BS	+853	-216			
	880				+6.9	84	+4.4	+11.3			BS					
304	660		166° 53.3'	-1.1°	7.9	-		-7.9		714.9		-640	+162	1,526,246	224,152	
305	440			-1.1°	7.3	-		-7.3		715.5		-427	+108	1,526,457	224,098	
306	220			-1.1°	6.6	-		-6.6		716.2		-213	+54	1,526,673	224,044	
307	0				5.3	-		-5.3		717.5	X	0	0	1,526,886	223,990	
307	192		332° 20'	-1.1°	5.3	-		-5.3		717.5		+168	-92	1,527,054	223,898	Y-intersect. (east)
308	220		334° 23'	-1.1°	4.8	-		-4.8		718.0		+197	-99	1,527,083	223,891	
309	440		328° 47'	-1.1°	3.9	-		-3.9		718.9		+372	-235	1,527,258	223,755	
310	658		325° 18'	-1.1°	1.2	-		-1.2		721.6		+534	-385	1,527,420	223,605	
X	736		323° 37'	-1.1°	3.6	TH	+3.7	+0.1		722.9		+584	-448	1,527,470	223,542	1,527,475 + 223,525 4-Way Intersect. El. 723
311	831		334° 9.8'	-1.1°	3.7	-		-3.7		719.1	TP	+741	-376	1,527,627	223,614	shooting across sharp corner
311	831				7.8	TH	+4.2	-3.6			TP					
	1540		201° 55' -180°	-1.1°	+8.3	89°	-26.9	-18.6	700.5		BS	+1439	+547			
	1540				+2.0	89° 14'	-20.6	-18.6			BS					
312	1320		201° 55'	-1.1°	9.3	89°	+23.0	+13.7		714.2		-1234	-469	1,527,832	223,692	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 11/9/78	INSTRUMENT MAN G. CoCamp	ROD MAN R. Hulsey	PARTY NUMBER 6834	NOTES CHECKED BY R. J. H.	LINE NO. 3	PAGE 28
AREA Georgia	TOPO MAP Gowman	STATE Georgia	COUNTY Elbert	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.	
									700.5					
313	1100		201°55'	-1.1°	10.2	89°	+19.2	+9.0		709.5		-1028	-391	1,528,038 223,770
314	880		" "	-1.1°	12.0	89°	+15.4	+3.4		703.9		-823	-313	1,528,243 223,848
315	660		" "	-1.1°	4.6	-		-4.6		695.9		-617	-235	1,528,449 223,926
316	440		" "	-1.1°	12.1	-		-12.1		688.4		-411	-156	1,528,655 224,005
317	220		" "	-1.1°	12.9	-		-12.9		687.6		-206	-78	1,528,860 224,083
318	0				5.3	-		-5.3		695.2	π	0	0	1,529,066 224,161
319	220		22°9'	-1.1°	6.2	87°	+11.5	+5.3		705.8		+205	+79	1,529,271 224,240
320	440	439	" "	-1.1°	9.8	87°	+23.0	+13.2		713.7		+410	+158	1,529,476 224,319
321	660		" "	-1.1°	8.4	88°	+23.0	+14.6		715.1		+616	+237	1,529,682 224,398
322	880	879	" "	-1.1°	9.9	88°	+30.7	+20.8		721.3		+820	+316	1,529,886 224,477
323	1100	1099	" "	-1.1°	8.6	88°	+38.4	+29.8		730.3		+1026	+395	1,530,092 224,556
324	1320	1319	" "	-1.1°	6.2	88°	+46.0	+39.8		740.3		+1231	+474	1,530,297 224,635
325	1540	1539	22°47.3'	-1.1°	1.2	88°	+53.7	+52.5		753.0	TP	+1430	+569	1,530,496 224,730
325	1540				4.8	87°52'	+57.3	+52.5			TP			
	880		212°7.7' - 180°	-1.1°	+11.4	-		+11.4	764.4		BS	+754	+454	
	880				+7.0	84	+4.4	+11.4			BS			
326	660		212°7.7'	-1.1°	4.1	-		-4.1		760.3		-566	-340	1,530,684 224,844
327	612		212°28'	-1.1°	3.8	-		-3.8		760.6		-523	-319	1,530,727 224,865
327	880 440		212°7.7'	-1.1°	4.2	-		-4.2		760.2		-377	-227	1,530,873 224,957
328	220		" "	-1.1°	4.5	-		-4.5		759.9		-189	-113	1,531,061 225,071

Y-intersect. (southwest)

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE		
11/9/78		G. Cotcamp		R. Hulsey		6834		R. J. H.		3		29		
AREA		TOPO MAP		STATE		COUNTY		RANGE		PPM		PARTY MANAGER		
Georgia		Bowman		Georgia		Elbert						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.	
									764.4					
329	0				5.3	-		-5.3		759.1	π	0	0	1,531,250 225,184
330	220		26°18.4'	-1.1°	4.9	-		-4.9		759.5		+199	+94	1,531,449 225,278
330	430		26°36'	-1.1°	2.1	-		-2.1		762.3		+388	+185	1,531,638 225,369 1,531,650 + 225,365 4-Way Intersect.
331	440		26°18.4'	-1.1°	2.0	-		-2.0		762.4		+398	+187	1,531,648 225,371
332	660		" "	-1.1°	6.2	89°	+11.5	+5.3		769.7		+597	+281	1,531,847 225,465
333	880		" "	-1.1°	6.0	88°30'	+23.0	+17.0		781.4		+796	+375	1,532,046 225,559
334	1100		26°18.4'	-1.1°	8.2	88°30'	+28.8	+20.6		785.0	TP	+995	+468	1,532,245 225,652
334	1100		" "		5.0	88°40'	+25.6	+20.6			TP			
	880		201°58.6'-180°	-1.1°	+2.5	6-		+2.5	787.5		BS	+822	+314	
	880		" "		+6.9	TH	-4.4	+2.5			BS			
335	660		201°58.6'	-1.1°	8.9	-		-8.9		778.6		-617	-235	1,532,450 225,731
336	440		" "	-1.1°	10.0	-		-10.0		777.5		-411	-157	1,532,656 225,809
337	220		198°22'	-1.1°	4.3	-		-4.3		783.2		-210	-66	1,532,857 225,900
338	0				5.3	-		-5.3		782.2	π	0	0	1,533,067 225,966
339	220		15°11'	-1.1°	2.7	-		-2.7		784.8		+213	+54	1,533,280 226,020
340	440		" "	-1.1°	4.4	89°	+7.7	+3.3		790.8		+427	+107	1,533,494 226,073
341	660		13°42'	-1.1°	9.1	88°	+23.0	+13.9		801.4		+640	+161	1,533,707 226,127
342	880	879	13°43'	-1.1°	6.0	88°	+30.7	+24.7		812.2		+858	+192	1,533,925 226,158
343	1100	1099	12°29.8'	-1.1°	6.3	88°	+38.4	+32.1		819.6	TP	+1077	+217	1,534,144 226,183
343	1100		" "		3.0	88°10'	+35.2	+32.2			TP			

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
1/1/80		S. Camp		R. Hulsey		6834		R. J. H.		3		30			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Georgia		Bowman		Georgia		Elbert								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
343										819.6					
	1760		185°57.2'-180°	-1.1°	+5.0	-		+5.0	824.6		BS	+1754	+149		
	1760				+138	TH	-8.8	+5.0			BS				
344	1540		185°57.2'	-1.1°	6.8	-		-6.8		817.8		-1534	-130	1,534,364	226,202
345	1320		'	-1.1°	12.1	-		-12.1		812.5		-1315	-112	1,534,583	226,220
346	1160		'	-1.1°	9.8	8H	-5.5	-15.3		809.3		-1096	-93	1,534,802	226,239
347	948		186°17'	-1.1°	14.0	-		-14.0		810.6		-944	-86	1,534,954	226,246
	880		185°57.2'	-1.1°	13.0	-		-13.0		811.6		-877	-74	1,535,021	226,258
348	660		'	-1.1°	9.0	-		-9.0		815.6		-658	-56	1,535,240	226,276
349	440		'	-1.1°	6.9	-		-6.9		817.7		-438	-37	1,535,460	226,295
350	220		'	-1.1°	6.3	-		-6.3		818.3		-219	-19	1,535,679	226,313
351	0				5.3	-		-5.3		819.3	X	0	0	1,535,898	226,332
352	220		341°22'	-1.1°	3.8	-		-3.8		820.8		+207	-74	1,536,105	226,258
353	440				5										
354	660														
353	410		334°56'	-1.1°	1.2	-		-1.2		823.4		+368	-181	1,536,266	226,151
	440		"	-1.1°	0.9	TH	+2.2	+1.3		825.9		+395	-194	1,536,293	226,138
354	658		332°42'	-1.1°	5.2	89°	+11.5	+6.3		830.9		+579	-313	1,536,477	226,019
355	876		331°8'	-1.1°	4.5	89°	+15.3	+10.8		835.4		+759	-438	1,536,651	225,894
356	1095		330°24'	-1.1°	2.3	89°	+19.1	+16.8		841.4		+942	-559	1,536,840	225,773

4-way Intersect. E1.010

Frd (east)

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
11/9/78		G. Catcamp		R. Hulsey		6834		R. J. H.		3	32			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE	PPM	PARTY MANAGER		
Georgia		Bowman		Georgia		Hart						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.	
									845.1					
369	440		9°415'	-1.1°	1.4	-		-1.4		843.7	TP	+435	+66	1,539,360 224,669
369	440				3.6	7H	+2.2	-1.4			TP			
	211		191°15'-180°	-1.1°	+1.9	-		+1.9	845.6		BS	+208	+37	shooting across corner
	211				+3.0	7H	-1.1	+1.9			BS			
370	0		295°29'	-1.1°	4.4	-		-4.4		841.2		+14	-31	1,539,582 224,675 Y-intersect.
371	220		65°42'	-1.1°	9.9	-		-9.9		840.3	TP	0	0	1,539,568 224,706
372	440		" "	-1.1°	13.5	-		-13.5		835.7		+94	+199	1,539,662 224,905
372	440		" "	-1.1°	13.5	-		-13.5		832.1		+189	+397	1,539,757 225,103
373	650		66°29'	-1.1°	13.4	-		-13.4		832.2		+250	+545	1,539,818 225,251 Y-intersect.
373	650		64°13'	-1.1°	12.5	-		-12.5		833.1	TP	+294	+580	1,539,862 225,286
373	650				9.3	0H	-3.3	-12.6			TP			
	660		208°5'-180°	-1.1°	+10.1	92°-	+23.0	+33.1	866.2		BS	+588	+299	
	660				+14.7	91°36'	+18.4	+33.1			BS			
374	440		208°5'	-1.1°	8.6	92°-	-15.3	-23.9		842.3		-392	-200	1,540,058 225,385
375	220		" "	-1.1°	13.3	-		-13.3		852.9		-196	-100	1,540,254 225,485
376	0				5.3	-		-5.3		860.9	TP	0	0	1,540,450 225,585
377	220		35°5'	-1.1°	3.6	7H	+1.1	-2.5		863.7	TP	+182	+123	1,540,632 225,708
377	220				3.8	89°40'	+1.3	-2.5			TP			
	660		217°10.6'-180°	-1.1°	+3.8	89°-	-11.5	-7.7	856.0		BS	+533	+389	
	660				+0.7	89°16'	-8.4	-7.7			BS			

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
11/9/78		G. Cotcamp		R. Hickey		6839		R. J. H.		3	33				
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
Georgia		Bowman		Georgia		Hart					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 TP	COORDINATES		REMARKS	
												NORTH+ SOUTH-	EAST+ WEST-		LAT.
									856.0						
378	440		215°28'	-1.1°	3.1	-		-3.1		852.9		-363	-248	1,540,802	225,849
379	220			-1.1°	4.6	-		-4.6		851.4		-182	-124	1,540,983	225,973
380	0				5.3	-		-5.3		850.7	TP	0	0	1,541,165	226,097
381	220		31°9'	-1.1°	9.7	-		-9.7		846.3		+190	+110	1,541,355	226,207
382	440			-1.1°	10.0	-		-10.0		846.0		+381	+220	1,541,546	226,317
383	660			-1.1°	11.2	BH	-3.3	-14.5		841.5		+571	+330	1,541,736	226,427
384	880		29°40'	-1.1°	11.5	BH	-4.4	-15.9		840.1		+773	+421	1,541,938	226,518
385	1100		28°50'	-1.1°	12.2	-		-12.2		843.8		+974	+512	1,542,139	226,609
386	1320		28°50'	-1.1°	12.2	-		-12.2		843.8	TP	+1168	+614	1,542,333	226,711
386	1320				5.6	BH	-6.6	-12.2			TP				
	440		212°35'-180°	-1.1°	+1.3	89°30'	-3.8	-2.5	841.3		BS	+375	+230		
	440				5.1	89°-	-7.7	-2.6			BS				
387	220		212°35'	-1.1°	4.6	-		-4.6		836.7		-188	-115	1,542,520	226,826
388	0				5.3	-		-5.3		836.0	TP	0	0	1,542,708	226,941
TP	36		31°40'	-1.1°	5.2	-		-5.2		836.1		+31	+18	1,542,739	226,959
TP	1158		340°242'		3.5	TH	+5.8	+2.3		843.6	TP				4-Way Intersect. 1,542,730 + 226,960
TP	1158				4.5	89°40'	+6.7	+2.2			TP				
	875		174°28'+180°		+14.5	89°	-15.3	-0.8	842.8		BS				
	875				+5.4	89°36'	-6.1	-0.7			BS				

