

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3-12-85		B. Cotcamp		K. Greenfield		6834		KWB		20		5			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		TAZEWELL South-7 1/2		G.A.		SCHLEY								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
K 4	Way Intersect - EL. 606.0 (Scaled)				835.525	x-431,000				606.0	4/			4/4 - 835.525 x - 431,000 4/4 Way Int. EL. 606.0	
1/2	996		244 22 40	-1.0	7.8	88 20	-29.0	-21.2	584.8		BS	+446	+890		
1/2	996				+7.7	271 40	-29.0	-21.3		BS	"	"	"	"	
1	710		245 35	--	9.1	88 20	+20.6	+11.5		596.3		-305	-641	835,667 431,248	
2	382		249 20	--	12.3	88 20	+11.1	-1.2		583.6		-141	-355	835,831 431,534	
3	98		205 30	--	7.6	95 -	-6.8	-14.4		570.4		-71	-32	835,901 431,857	
K	0				5.1	-		-5.1		579.7	1	0	0	835,972 431,889	
4	312		111 40	-1.0	9.1	94 -	-21.7	-30.8		554.0		-110	+292	835,862 432,191	
5	641		114 -	--	5.2	94 -	-44.6	-49.8		535.0		-250	+590	835,722 432,479	
6	971		115 35	--	10.0	93 -	-50.7	-60.7		524.1		-404	+883	835,568 432,772	
7	1297		113 51 54	--	6.9	92 -	-45.2	-52.1		532.7	TP	-504	+1194	835,469 433,082	
7	1297				6.8	268 -	-45.2	-52.0			TP	"	"		
	1650		272 21 33	-1.0	+12.0	-		+12.0	544.7		BS	-39	+1650		
	1650				+11.9	270 -		+11.9		BS	"	"	"	"	
8	1320		271 58	--	5.0	90 40	-15.4	-20.4		524.3		+22	-1320	835,453 433,411	
9	990		-	--	8.0	91 20	-23.0	-31.0		531.7		+17	-990	835,449 433,741	
10	660		-	--	9.0	91 20	-15.4	-24.4		520.3		+11	-660	835,442 434,071	
11	330		-	--	5.9	91 20	-7.7	-13.6		531.1		+6	-330	835,437 434,401	
12	0				5.1	-		-5.1		539.6	K	0	0	835,431 434,731	
13	330		92 38	-1.0	5.3	91 30	-8.6	-13.9		530.8		-9	+330	835,422 435,061	
14	660		-	--	8.0	92 -	-23.0	-31.0		513.7		-19	+660	835,412 435,391	

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3-12-85		B. Cotcamp		K. Greenfield		6834		H. Wood		20		2			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		ELLAVILLE NORTH-7 1/2'		G.A.		SHLEY								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 X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									544.7						
15	990		92° 38'	-1.0	12.9	92°	-34.5	-47.4		497.3		-28	+990	835,403	435,721
16	1320		- - -	--	12.7	92°	-46.0	-58.7		486.0		-38	+1319	835,393	436,050
17	1650		- - -	--	7.2	92°	-57.6	-64.8		479.9		-47	+1649	835,384	436,380
18	1980		92° 57' 51"	--	4.4	92°	-69.1	-73.5		471.2	TP	-68	+1978	835,364	436,708
18	1980				4.3	268°	-69.1	-73.4			TP	+	-1		
	1423		280° 50' 20"	-1.0	+14.3	89°	-24.8	-10.5	460.7		BS	-243	+1402		
	1423				+14.2	271°	-24.8	-10.6			BS	+	-1		
19	1093		281° 38'	--	6.4	89° 40'	+6.4	-10.0		460.7		+202	-1074	835,324	437,062
20	763		282° -	--	7.3	90° 10'	-2.2	-9.5		451.2		+146	-749	835,268	437,360
21	433		282° 15'	--	9.0	91° 10'	-8.8	-17.8		442.9		+84	-425	835,206	437,684
22	105		274° 45'	--	9.0	91° 10'	-2.1	-11.1		449.6		+7	-105	835,129	438,004
X	0				5.1	-		-5.1		455.6	X	0	0	835,122	438,109
23	232		119° 20'	-1.0	7.4	86° 10'	+15.5	+8.1		468.8		-110	+204	835,012	438,313
24	564		121° 48' 12"	--	5.5	87°	+29.5	+24.0		484.7	TP	-288	+484	834,835	438,593
24	564				3.9	87° 10'	+27.9	+24.0			TP	+			
	1520		322° 53' 01"	--	+12.3	-		+12.3	497.0		BS	-1196	+938		
	1520				+12.2	270°		+12.2			BS	+	-1		
25	1189		321° 10'	-1.0	10.7	-		-10.7		486.3		+913	-762	834,553	438,768
26	864		318° 05'	--	13.0	-		-13.0		484.0		+633	-588	834,273	438,942
27	543		311° 10'	--	12.0	-		-12.0		485.0		+350	-415	833,990	439,115

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3.12.85		B. Cotcamp		K. Greenfield		6834		KWA		20		3			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		ELLAVILLE NORTH-7 1/2		G.A.		SCHLEY								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
									497.0						
28	223		300 -	-1.0	8.1	-	-8.1		488.9			+108	-195	833,748	439,335
π	0				5.1	-	-5.1		491.9	π		0	0	833,640	439,530
29	107		107 -	--	4.9	TH	+0.5	-4.4	492.6			-29	+103	833,611	439,633
29	297		98° 48' 12"	--	2.2	-	-2.2		494.8	29		-40	+294	833,600	439,824
30	432		96° 05'	--	5.5	89° 20'	+5.0	-0.5	496.5			-38	+430	833,602	439,960
31	746		85° 55'	--	7.7	89° 20'	+8.7	+1.0	498.0			+66	+743	833,706	440,273
TP	1013		82° 46' 15"	--	13.7	89° 30'	+8.8	-4.9			TP	+145	+1003	833,786	440,532
TP	1013				13.6	270° 30'	+8.8	-4.8	492.2		TP	+	-1		
	936		279° 14' 58"	-1.0+	10.0	88° 30'	-24.5	-14.5	477.7		BS	-102	+930		
	936			+	9.9	271° 30'	-24.5	-14.6			BS	+	-1		
32	885		278° 45'	--	7.0	88° 40'	+20.6	+13.6	491.2			+119	-877	833,804	440,584
33	555		281° 45'	--	7.2	88° 40'	+12.9	+5.7	483.4			+104	-545	833,789	440,916
34	225		-	--	5.1	88° 30'	+5.9	+0.8	478.5			+42	-221	833,727	441,240
π	0				5.1	-	-5.1		472.6	π		0	0	833,685	441,461
35	105		101° 48'	-1.0	6.0	91° 50'	-3.4	-9.4	468.3			-20	+103	833,665	441,564
36	435		-	--	9.1	91° 50'	-13.9	-23.0	454.7			-82	+427	833,603	441,898
37	765		-	--	9.7	92° 10'	-28.9	-38.6	439.1			-143	+751	833,542	442,212
38	1095		99° 38' 30"	--	7.9	92° 40'	-50.9	-58.8	477.0		TP	-164	+1081	833,522	442,541
38	1095				7.8	267° 20'	-50.9	-58.7	419.0		TP	+	-1		

4-8.33,595 x 439,800
FT-Inter. EL. 495.0

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DATE	3-12-85	INSTRUMENT MAN	B. Cotcamp	ROD MAN	k. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	B.C.W.	LINE NO.	20	PAGE	4
AREA	GEORGIA	TOPO MAP	ELLAVILLE north-7 1/2'	STATE	G.A.	COUNTY	SCHLEY	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	
										419.0						
	1495		272° 17' 56"	-1.0	+1.7	92° -	+52.1	+53.8	472.7		BS	-34	+1494			
	1495				+1.5	268° -	+52.1	+53.6	453.7		BS	"				
39	1165		272° 10'	"	8.7	93° -	-60.9	-69.6		403.1		+24	-1165	833,513	442,570	
40	835		"	"	11.3	93° 30'	-50.9	-62.2		410.5		+17	-835	833,506	443,200	
41	505		"	"	8.6	93° 30'	-30.8	-39.4		433.3		+10	-505	833,499	443,530	
42	175		"	"	9.0	91° 30'	-4.6	-13.6		459.1		+4	-175	833,493	443,960	
X	0				5.1	-		-5.1		467.6	X	0	0	833,489	444,035	
43	154		95° 26'	-1.0	5.6	89° 30'	+1.3	-4.3		468.4		-12	+154	833,477	444,189	
44	484		"	"	10.3	-		-10.3		462.4		-37	+483	833,452	444,518	
45	814		"	"	13.0	BH	-4.1	-17.1		455.6		-63	+812	833,426	444,847	
46	1144		"	"	9.2	BH	-5.7	-14.9		457.8		-88	+1141	833,401	445,176	
47	1474		"	"	8.9	89° 20'	+17.1	+8.2		480.9		-114	+1470	833,395	445,505	
TP	1565		95° 00' 28"	"	3.1	89° 20'	+18.2	+15.1			TP	-109	+1561	833,381	445,596	y - 833,390 x - 445,535 T-Inter. EL. 488.0
TP	1565				3.0	276° 40'	+18.2	+15.2		487.9	TP	"				
	1294		2° 15' 59"	-1.0	+11.7	-		+11.7	499.6		BS	-1294	-29			* 1294 offset south
	1294				+11.6	276° -		+11.6			BS	"				
X	0				5.1	-		-5.1		494.5	X	0	0	832,088	445,567	y - 832,070 x - 445,550 T-Inter. EL. 475.0
48	276		76° 45'	"	5.1	TH	+1.4	-3.7		495.9		+68	+268	832,156	445,935	
49	602		82° 40'	"	14.0	87° 30'	+26.2	+12.2		511.8		+87	+596	832,195	446,163	
50	929		86° 15'	"	6.0	87° 30'	+40.5	+34.5		534.1		+77	+926	832,165	446,493	

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3-12-85		B. Cotcamp		K. Greenfield		6834		B.C.W.		20		5			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		ELLAVILLE north-7 1/2'		G.A.		SCHUYLER								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
									499.6						
TP	999		85° 56' 23"	-1.0	9.4	87° 10'	+49.4	+40.0	}	539.6	TP	+88	+994	832,177	446,561
TP	999				9.3	272° 50'	+49.4	+40.1		TP		TP	+		
	382		270° 41' 31"	..	+5.2	92° -	+13.3	+18.5	}	558.1	BS	+2	+382		
	382				+11.9	91° -	+6.7	+18.6		BS		BS	+		
51	124		262° 05'	..	5.9	-		-5.9		552.2		-19	-123	832,161	446,820
X	0				5.1	-		-5.1		553.0	X	0	0	832,180	446,943
52	212		28° -	-1.0	5.8	TH	+1.1	-4.7		553.4		+189	+96	832,369	447,039
53	542		26° 35'	..	5.4	TH	+2.7	-2.7		555.4		+489	+284	832,669	447,177
54	872			..	3.0	TH	+4.4	+1.4		559.5		+787	+377	832,967	447,320
TP	982		27° 09' 04"	..	7.5	89° 30'	+8.6	+1.1	}	559.2	TP	+881	+433	833,062	447,376
TP	982				7.4	270° 30'	+8.6	+1.2		TP		TP	+		
	880		225° 34' 44"	-1.0	+2.4	-		+2.4	}	561.6	BS	+627	+618		
	880				+6.8	TH	-4.4	+2.4		BS		BS			
55	660		225° 25'	..	7.4	TH	+3.3	-4.1		557.5		-471	-462	833,218	447,532
56	330		224° 50'	..	5.0	TH	+1.7	-3.3		558.3		-238	-229	833,451	447,765
57	0				5.1	-		-5.1		556.5	X	0	0	833,689	447,994
58	330		47° 35'	-1.0	7.1	91° -	-5.8	-2.9		548.7		+227	+240	833,916	448,234
59	660			..	8.2	91° -	-11.5	-19.7		541.9		+454	+479	834,143	448,473
60	990		48° 40'	..	4.8	91° -	-19.3	-22.1		539.5		+667	+732	834,356	448,726

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Geosource Inc.

DATE	3-12-85	INSTRUMENT MAN	B. Cotcamp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	B. Clark	LINE NO.	20	PAGE	6	
AREA	GEORGIA	TOPO MAP	ELLAVILLE north-7 1/2	STATE	G.A.	COUNTY	Schley	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	
									561.6							
TP	1048		47° 54' 31"	-1.0	2.3	91° -	-18.3	-20.6			TP	+716	+765	834,405	449,759	
TP	1048				2.2	269° -	-18.3	-20.5		541.1	TP					
	847		254° 34' 05"	--	+11.6	87° 30'	-36.9	-25.3	515.7		BS	+239	+812			
	847				+11.4	272° 30'	-36.9	-25.5	-25.4		BS					
61	565		254° 20'	--	16.6	87° -	+29.5	+18.9		534.6		-162	-541	834,482	449,030	
62	235		- -	--	6.8	86° 20'	+15.0	+8.2		523.9		-67	-225	834,577	449,346	
π	0				5.1	-		-5.1		510.6	π	0	0	834,644	449,571	
63	95		74° 44'	-1.0	5.0	94° -	-6.6	-11.6		504.1		+27	+91	834,671	449,662	
64	425		- -	--	5.6	94° -	-29.6	-35.2		480.5		+119	+408	834,763	449,979	
65	752		70° 53' 03"	--	8.6	93° -	-39.3	-47.9			TP	+258	+705	834,902	450,276	
65	752				8.5	267° -	-39.3	-47.8		467.9	TP					
	1508		239° 25' 24"	-1.0	+14.9	88° 42'	-34.2	-19.3	449.6		BS	+789	+1284			
	1508				+14.8	271° 18'	-34.2	-19.4			BS					
66	1178		239° 25'	--	14.1	88° 40'	+27.4	+13.3		461.9		-617	-1004	835,074	450,556	
67	848		- -	--	6.8	88° 40'	+19.7	+12.9		461.5		-444	-722	835,247	450,830	
68	518		- -	--	6.5	88° -	+18.1	+11.6		460.2		-271	-441	835,420	451,119	
69	188		236° 10'	--	6.4	88° -	+6.6	+0.2		448.8		-107	-154	835,584	451,406	
π	0				5.1	-		-5.1		443.5	π	0	0	835,691	451,560	
70	149		79° 15'	-1.0	7.2	91° 30'	-3.9	-11.1		437.5		+30	+146	835,921	451,706	
71	478		76° 15'	--	11.2	91° 30'	-12.5	-23.7		424.9		+122	+462	835,813	452,022	

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3-12-85		B. Cotcamp		K. Greenfield		6834		B. Clark		20		7					
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER			
GEORGIA		ELLAVILLE north-7 1/4		G.A.		SCHLEY								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.		Y	X	
72	808		76° 30'	-1.0	7.7	92° 30'	-35.2	-42.9	448.6	405.7		+202	+782	835,893	452,342		
TP	826		76° 54' 28"	--	5.0	92° 10'	-31.2	-36.2	}		TP	+201	+801	835,892	452,361		
TP	826				4.9	267° 50'	-31.2	-36.1		412.5	TP						
	867		264° 00' 26"	--	+12.1	89° 24'	-9.1	+3.0		415.5	BS	+106	+861				
	867				+12.0	276° 36'	-9.1	+2.9			BS						
73	603		272° 55'	--	5.4	92° 30'	-26.3	-31.7		383.8		+20	-603	836,018	452,619		
74	276		269° 40'	--	9.8	93° 30'	-16.8	-21.6		388.9		-6	-276	835,992	452,946		
T	0				5.1	-		-5.1		410.4	T	0	0	835,998	453,222		
75	54		87° -	-1.0	4.5	86° -	+3.8	-0.7		414.8		+4	+54	836,002	453,276		
76	384		85° -	--	3.8	87° -	+20.1	+16.3		431.8		+40	+382	836,038	453,604		
77	714		- -	--	7.2	87° -	+37.3	+30.1		445.6		+75	+716	836,073	453,932		
78	1044		- -	--	9.8	87° 10'	+51.5	+41.7		457.2		+109	+1038	836,107	454,260		
TP	1337		85° 09' 22"	--	10.3	87° 20'	+62.2	+51.9	}	467.5	TP	+136	+1329	836,134	454,551		
TP	1337				10.1	272° 40'	+62.2	+52.1		467.5	TP						
	1218		302° 59' 47"	-1.0	+13.9	92° -	+42.5	+56.4		523.9	BS	-645	+1032				
	1218				+13.8	268° -	+42.5	+56.3			BS						
79	1176		303° 15'	--	7.9	92° 26'	-47.8	-55.7		468.2		+628	-995	836,117	454,588		
80	846		303° 10'	--	10.9	92° 20'	-34.4	-45.3		478.6		+450	-716	835,939	454,867		
81	516		302° 40'	--	9.1	92° 50'	-25.5	-34.6		489.3		+271	-439	835,760	455,144		
82	186		- -	--	11.0	92° 50'	-9.2	-20.2		503.7		+98	-158	835,587	455,425		

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3.12.85		B. Cotcamp		K. Greenfield		6834		B. CW		20		8			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		ELLAVILLE North-7 1/2		G.A.		SCHLEY								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.		Y
									523.9						
TP	0				5.1	90° -		-5.1		518.8	TP	0	0	835,489	445,583
83	143		130° 35'	-1.0	5.6	85° 50'	+10.4	+4.8		528.7		-91	+110	835,398	455,693
84	473		131° 50'	--	6.4	86° 50'	+26.1	+19.7		543.6		-309	+358	835,180	455,941
TP	601		131° 17' 03"	--	10.9	87° 20'	+28.0	+17.1			TP	-388	+458	835,101	456,041
TP	601				10.8	272° 40'	+28.0	+17.2		541.1	TP				
	861		297° 21' 10"	-1.0	11.4	89° 10'	-12.5	-1.1	540.0		BS	-382	+771		
	861				11.3	270° 50'	-12.5	-1.2			BS				
85	660		297° 40'	--	9.6	89° 10'	+7.6	+0.0		540.0		+296	-590	835,015	456,222
86	330			--	6.9	88° 10'	+10.6	+3.7		543.7		+148	-295	834,867	456,517
87	0				5.1	-		-5.1		534.9	TP	0	0	834,719	456,812
TP	55		106° 34' 14"	-1.0	4.9	91° 10'	-1.1	-6.0		534.0	TP	-15	+53	834,704	456,865
88	330		98° 15'	--	6.4	91° 10'	-6.7	-13.1		526.9		-42	+327	834,677	457,139
89	660		97° 15'	--	7.4	91° 10'	-13.4	-20.8		519.2		-72	+656	834,647	457,468
TP	789		96° 08' 57"	--	7.9	91° 10'	-16.1	-24.0		516.0	TP	-71	+786	834,648	457,598
TP	789				7.8	268° 50'	-16.1	-23.9			TP				
	895		238° 47' 24"	-1.0	7.2	88° 30'	-23.4	-16.2	499.8		BS	+477	+757		
	895				7.1	271° 30'	-23.4	-16.3			BS				
90	700		239° 30'	--	8.1	88° 30'	+18.3	+10.2		510.0		-366	-597	834,759	457,758
91	372		243° 40'	--	9.1	88° 30'	+9.7	+0.6		500.4		-171	-330	834,954	458,025
92	43		235° 50'	--	4.8	88° 30'	+1.1	-3.7		496.1		-25	-35	835,100	458,320

TP 834,715 x - 456,865
TP 4 way auto. el. 534.0

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	3-12-85	INSTRUMENT MAN	B. Cotcamp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	B.C.W.	LINE NO.	20	PAGE	9
AREA	GEORGIA	TOPO MAP	ELLAVILLE north-7 1/2'	STATE	G.A.	COUNTY	SCHLEY	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.	
									499.8					
K	0				5.1	-		-5.1		494.7	K	0	0	835,125 458,355
93	290		77° 55'	-1.0	7.0	92°	-10.1	-17.1		482.7		+66	+282	835,191 458,637
94	619		80° 25'	--	8.1	91° 30'	-16.2	-24.3		475.5		+114	+608	835,239 458,963
95	945		84° 35'	--	4.4	91° 30'	-24.7	-29.1		470.7		+106	+939	835,231 459,294
TP	1266		86° 53' 52"	--	6.4	91° 10'	-25.7	-32.1		467.7	TP	+90	+1257	835,215 459,612
TP	1266				6.3	268° 50'	-25.7	-32.0			TP			
	1109		278° 42' 22"	-1.0	5.2	89° 20'	-12.9	-7.7			BS	-149	+1099	
	1109				5.1	270° 40'	-12.9	-7.8		459.9	BS			
96	1097		278° 40'	--	5.1	89° 20'	+12.8	+7.9		467.6		+146	-1087	835,212 459,624
97	768		280° 15'	--	6.2	89° 12'	+10.9	+4.5		464.4		+123	-758	835,189 459,953
98	439		283° 22'	--	7.4	89° 12'	+6.1	-1.3		458.6		+94	-429	835,160 460,282
99	109		281° -	--	7.2	89° 12'	+1.5	-5.7		454.2		+19	-107	835,085 460,604
K	0				5.1	-		-5.1		454.8	K	0	0	835,066 460,711
100	221		92° 50'	-1.0	5.0	89° -	+3.9	-1.1		458.8		-7	+221	835,059 460,932
101	551		- -	--	4.0	88° 50'	+11.2	+7.2		467.1		-18	+551	835,048 461,262
102	881		92° 40'	--	7.3	88° 50'	+17.9	+10.6		470.5		-26	+881	835,040 461,592
#	1077		91° 49' 44"	--	8.9	88° 50'	+21.9	+13.0		472.9	#	-16	+1077	835,050 461,798
103	1211		92° -	--	7.4	88° 50'	+24.7	+17.3		477.2		-21	+1211	835,045 461,922
104	1541		- -	--	11.0	88° 50'	+31.4	+20.4		480.3		-27	+1541	835,039 462,252
105	1871		- -	--	11.3	88° 50'	+38.1	+26.8		486.7		-33	+1871	835,030 462,582

11 835,065 X 461,770
IF HWA. INFO. EL 471.0

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	3-14-85	INSTRUMENT MAN	B. Cotcamp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	B.C.W	LINE NO.	20	PAGE	10	
AREA	GEORGIA	TOPO MAP	ELLAVILLE North-7 1/2'	STATE	G.A.	COUNTY	SCHLEY	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	X
									459.9							
106	2202		91° 57' 50"	-1.0	8.1	89°	+38.4	+30.3	}	490.2	TP	-37	+2201	835,029	462,912	
106	2202				8.0	271°	+38.4	+30.4		TP						
	1462		271° 31' 03"	--	+5.0	91° 30'	+38.3	+43.3	}		BS	-13	+1461			
	1462				+4.9	268° 30'	+38.3	+43.2		533.4	BS					
107	1131		271° 31'	-1.0	9.3	91° 30'	-29.6	-38.9		494.5		+10	-1131	835,026	463,242	
108	801			--	10.1	91° 30'	-21.0	-31.1		502.3		+7	-801	835,023	463,572	
109	471			--	9.2	91° 30'	-12.3	-21.5		511.9		+4	-471	835,020	463,902	
110	141			--	9.3	91° 30'	-3.7	-13.0		520.4		+1	-141	835,017	464,232	
K	0				5.1	-		-5.1		528.3	K	0	0	835,016	464,373	
111	202		131° 45'	-1.0	5.2	90° 30'	-1.8	-7.0		526.4		-132	+153	834,884	464,526	
112	508		119° 20'	--	10.0	89° 36'	+3.5	-6.5		526.9		-241	+447	834,775	464,820	
TP	613		117° 13' 44"	--	4.8	80° 30'	-3.6	-8.4	}	525.0	TP	-211	+550	834,745	464,913	
TP	613				4.7	268° 40'	-3.6	-8.3		TP						
	561		302° 10' 00"	-1.0	+9.5	87°	-29.3	-19.8	}		BS	-290	+479			
	561				+7.8	87° 10'	-27.7	-19.9		505.1	BS					
113	330		302° 40'	--	5.6	81°	+17.2	+11.6		516.7		+173	-281	834,628	465,121	
114	0				5.1	-		-5.1		500.0	K	0	0	834,455	465,402	ACROSS STA.
115	330		140° 35'	--	8.9	91°	-5.8	-14.7		490.4		-251	+214	834,204	465,616	
116	663		144° 43' 27"	--	9.6	91° 30'	-17.4	-27.0	}	478.1	TP	-534	+392	833,921	465,794	ACROSS STA.
116	663				9.5	268° 30'	-17.4	-26.9		TP						

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3-14-85		B. Cotcamp		K. Greenfield		6834		B.C.W		20		11			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		ELLAVILLE NORTH-7 1/2		G.A.		SCHLEY								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
									478.1						
	813		352° 34' 18"	-1.0	+5.8	88°	-28.4	-22.6	455.4		BS	-804	+119		
	813				+5.7	272°	-28.4	-22.7		BS					
117	483		351° 25'	--	6.2	88°	+16.9	+10.6		466.0		+476	-80	833,593	465,833
118	152		345° 50'	--	4.9	88°	+5.3	+0.4		455.8		+147	-40	833,264	465,873
X	0				5.1	-		-5.1		450.3	X	0	0	833,117	465,913
119	176		150° 40'	-1.0	5.4	91° 40'	-5.1	-10.5		444.9		-152	+89	832,965	466,002
120	505		147° 40'	--	8.4	91° 40'	-14.7	-22.1		432.3		-422	+278	832,695	466,191
121	835		149° 30'	--	8.2	91° 40'	-24.3	-32.5		422.9		-712	+436	832,405	466,349
122	1165			--	12.6	91° 40'	-33.9	-46.5		408.9		-993	+609	832,124	466,522
TP	1253		148° 39' 10"	--	8.4	92°	-43.7	-52.1	393.9		TP	-1058	+670	832,059	466,583
TP	1253				8.3	288°	-43.7	-52.0		TP					
	738		291° 44' 02"	-1.0	+3.5	89°	-12.9	-9.4	393.9		BS	-261	+690		
	738				+5.6	88° 50'	-15.0	-9.4		BS					
123	500		288° 45'	--	6.8	89°	+8.7	+1.9		395.8		+152	-476	831,950	466,797
124	170		291° 50'	--	6.9	89°	+3.0	-3.9		390.0		+60	-159	831,858	467,114
TP	80		301° 50' 14"	--	6.1	89°	+1.4	-4.7		389.2		+41	-69	831,839	467,204
X	0				5.1	-		-5.1		388.8	X	0	0	831,798	467,273
125	161		143° 45'	-1.0	6.4	89°	+2.8	-3.6		390.3		-128	+97	831,670	467,370
126	491		146° 55'	--	7.2	89°	+8.6	+1.4		395.3		-407	+275	831,391	467,548

TP - 831,815 x -467,205
T - TRAIL EL. 388.0

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	3-14-85	INSTRUMENT MAN	B. Cotnam	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	BC	LINE NO.	20	PAGE	12	
AREA	GEORGIA	TOPO MAP	ELLAVILLE north. 1/2'	STATE	G.A.	COUNTY	SCHLEY	TWP		RANGE		PPM	PARTY MANAGER	D. CASS, dy

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
									393.9						
TP	583		146° 35' 21"	-1.0	12.9	89° -	+10.2	-2.7	}	391.2	TP	-481	+329	831,317	467,602
TP	583				11.2	89° 10'	+8.5	-2.7		TP					
	1412		322° 44' 47"	--	+5.9	-		+5.9	}		BS	-1109	+874		
	1412				+5.8	270° -		+5.8		397.0	BS				
127	1176		322° 30'	--	12.0	BM	-5.9	-77.9		379.1		+920	-732	831,128	467,944
128	846		-	--	9.7	91° 20'	-19.7	-27.4		367.6		+662	-527	830,970	467,949
129	516		321° 40'	--	7.3	92° 20'	-21.0	-28.3		368.7		+399	-327	830,607	468,149
#1	219		322° 09' 33"	--	8.1	92° 20'	-8.9	-17.0		380.0	#1	+170	-137	830,378	468,339
130	187		320° 25'	-	8.6	92° 10'	-7.1	-15.7		381.3		+142	-122	830,350	468,354
π	0				5.1	-		-5.1		391.9	π	0	0	830,208	468,476
131	143		134° -	-1.0	6.0	86° 10'	+9.5	+3.5		400.5		-98	+105	830,110	468,581
132	473		131° 10'	--	4.9	86° 10'	+31.5	+26.6		423.6		-305	+361	829,903	468,837
133	803		129° 20'	--	5.3	85° 40'	+60.5	+55.2		452.2		-498	+630	829,710	469,106
TP	952		130° 20' 01"	--	7.8	85° 30'	+74.5	+66.7	}	463.7	TP	-602	+734	829,606	469,210
TP	952				7.8	274° 30'	+74.5	+66.7		TP					
	803		317° 42' 17"	-1.0	+13.5	92° 10'	+30.3	+43.8	}		BS	-584	+550		
	803				+13.4	267° 50'	+30.3	+43.7		507.4	BS				
134	625		316° 20'	--	9.5	92° -	-21.8	-31.3		476.1		+445	-439	829,467	469,321
135	296		314° 10'	--	8.0	91° -	-5.2	-13.2		494.2		+203	-216	829,225	469,544
π	0				5.1	-		-5.1		502.3	π	0	0	829,022	469,760

#1 - 830,360 X - 468,310
T-Inter. EL. 380.0

#1 - 829,005 X - 469,735
T-Inter. EL. 502.0

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		SHEET NO.		PAGE			
3-14-85		B. Cotamp		K. Greenfield		6834		B.C.W		20		13			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		ELLAVILLE NORTH - 7 1/2'		G.A.		SCHLEY								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
									507.4						
136	39		48° 15'	-1.0	6.7	-		-6.7		500.7		+26	+29	829,048	469,789
137	369		-	--	11.7	BH	-1.8	-13.5		493.9		+250	+271	829,272	470,031
138	697		44 -	--	10.3	-		-10.3		497.1		+510	+475	829,532	470,235
139	1004		36 -	--	9.0	BH	-5.0	-14.0		493.4		+822	+576	829,844	470,336
140	1326		32° 05'	--	9.3	BH	-6.6	-15.9		491.5		+1136	+685	830,158	470,445
141	1653		30° 30' 03"	--	11.1	BH	-8.3	-19.4		488.0	TP	+1439	+814	830,461	470,574
141	1653				11.0	BH 210	-8.3	-19.3			TP				
	915		245° 14' 45"	-1.0	+13.5	88° 26'	-25.0	-11.5			BS	+397	+824		
	915				+13.4	271° 34'	-25.0	-11.6	476.4		BS				
142	644		259° 03'	--	11.2	88° 26'	+17.6	+6.4		482.8		-133	-630	830,725	470,768
143	330		268° 50'	--	8.3	88° 20'	+9.6	+1.3		477.7		-12	-330	830,846	471,068
144	0				5.1	-		-5.1		471.3	T	0	0	830,858	471,398
145	312		57° 55'	-1.0	6.3	91° 20'	-7.3	-13.6		462.8		+170	+261	831,028	471,659
146	629		47° 20'	--	8.2	91° 20'	-14.6	-22.8		453.6		+434	+455	831,292	471,853
147	956		49° 55' 28"	--	12.8	91 -	-16.7	-29.5		446.9	TP	+628	+721	831,486	472,119
147	956				12.7	269 -	-16.7	-29.4			TP				
	1321		247° 17' 13"	-1.0	+10.4	89 -	-23.1	-12.7	434.0		BS	+531	+1209		
	1321				+10.1	271 -	-23.1	-13.0	-12.93		BS				
148	990		247° 35'	--	9.9	89° -	+17.3	+7.4		441.4		-393	-908	831,624	472,420
149	660		-	--	6.4	89° -	+11.5	+5.1		439.1		-262	-606	831,755	472,722

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3.14.85		B. Cotcamp		K. Greenfield		6834		B.C.W.		20		14			
AREA		TOPO. MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		ELLAVILLE NORTH / IDEAL SOUTH		G.A.		SCHUY								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.		Y
									434.0						
150	330		248° 10'	-1.0	7.2	88°	+11.5	+4.3		438.3		-128	-304	831,889	473,024
151	0				5.1	-		-5.1		428.9	TP	0	0	802,017	473,328
152	332		92° 50'	--	5.3	93°	-17.4	-22.7		411.3		-11	+332	832,000	473,660
153	656		89° 04' 06"	--	6.0	93°	-34.3	-40.3		393.7	TP	+22	+655	832,039	473,983
153	656				5.9	267°	-34.3	-40.2			TP				
	632		254° 38' 09"	-1.0	13.0	86°	-44.0	-31.0	362.7		BS	+178	+605		
	632				+11.2	86° 10'	-42.2	-31.0			BS				
154	310		262° 30'	--	8.3	86° 20'	+19.8	+11.5		374.2		-46	-307	832,171	474,281
	TP				5.1	-		-5.1		357.6	TP	0	0	832,217	474,588
155	33		146° 40'	--	5.7	-		-5.7		357.0		-27	+19	832,190	474,607
156	358		119° -	--	5.0	74°	+1.8	-3.2		359.5		-168	+316	832,049	474,904
157	688		- -	--	11.8	88° 06'	+22.8	+11.0		373.7		-323	+607	831,894	475,195
158	1017		117° 15'	-1.0	6.7	88° -	+35.5	+28.8		391.5		-450	+912	831,767	475,500
159	1347		116° 40'	--	6.8	87° 40'	+54.8	+48.0		410.7		-583	+1214	831,634	475,802
160	1677		116° 45'	--	9.1	87° 10'	+82.8	+73.7		436.4		-729	+1510	831,488	476,098
161	2005		116° 40' 01"	--	8.2	87°	+104.8	+96.6		459.4	TP	-867	+1805	831,350	476,393
161	2005				7.9	273°	+104.8	+96.9	+96.9		TP				
	1097		315° 26' 55"	-1.0	7.3	91°	+19.1	+26.4			BS	-768	+783		
	1097				+7.2	269°	+19.1	+26.3	485.7		BS				
162	806		325° -	--	8.2	91°	-14.1	-22.3		463.4		+652	-474	831,234	476,702

ELLAVILLE NORTH - 71'

IDEAL SOUTH - 72'

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3.14.85		B. Cotcamp		K. Greenfield		6834		B.C.W.		20		15			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		IDEAL South-7 1/2		G.A.		Schley								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.		Y
									485.7						
163	568		344° 25'	-1.0	5.4	91°	-9.9	-15.3		470.4		+544	-162	831,126	477,014
164	330		7° 45'	--	7.5	-		-7.5		478.4		+328	+39	830,910	477,215
165	0				5.1	-		-5.1		480.6	π	0	0	830,582	477,176
166	253		116° 06'	--	8.4	-		-8.4		477.3		-107	+229	830,475	477,405
#1	98		182° -	--	4.3	TH	+0.5	-3.8		481.9	#1	-98	-2	830,484	477,174
167	571		103° 15'	--	11.2	BH	-2.9	-14.1		471.6		-121	+558	830,461	477,734
168	896		106° 50'	--	11.6	BH	-4.5	-16.1		469.6		-244	+862	830,338	478,038
169	1203		113° 20'	--	11.7	BH	-6.0	-17.7		468.0		-457	+1113	830,125	478,289
170	1521		117° 00' 15"	-	14.6	96° 08'	-3.5	-18.1		467.6	TP	-667	+1367	829,915	478,543
170	1521				14.5	269° 52'	-3.5	-18.0			TP				
	1744		297° 38' 02"	-1.0	+14.7	88° 06'	-57.8	-43.1	424.5		BS	-781	+1558		
	1744				+14.8	271° 54'	-57.8	-43.0			BS				
171	1415		297° -	--	10.0	88° -	+49.4	+39.4		463.9		+620	-1272	829,754	478,829
172	1085		- -	--	6.3	88° -	+37.8	+31.5		456.0		+476	-975	829,610	479,126
173	755		- -	--	8.1	87° 40'	+30.7	+22.6		447.1		+331	-679	829,465	479,422
174	425		- -	--	6.8	87° 20'	+19.8	+13.0		437.5		+186	-382	829,320	479,719
175	96		299° 20'	--	6.3	87° 20'	+4.5	-1.8		422.7		+46	-85	829,180	480,016
π	0				5.1	-		-5.1		419.4	π	0	0	829,134	480,101
176	239		100° 20'	-1.0	8.8	92° 50'	-11.8	-20.6		403.9		-39	+236	829,095	480,337
177	569		98° 20'	--	12.0	92° 50'	-26.1	-40.1		384.4		-73	+564	829,061	480,665

Y - 830500 X 477,175
#1 T- Inte.

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3-14-85		B. Cotcamp		K. Greenfield		6834		B.C.W.		20		16			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		IDEAL South - 7 1/2'		G.A.		SCHLEY								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
									424.5						
178	898		96° 45'	-1.0	7.2	92° 30'	-39.1	-46.3		378.2		-90	+893	829,044	480,994
179	1228		96 -	--	6.8	91° 20'	-28.6	-35.4		389.1		-107	+1223	829,027	481,324
180	1556		95° 40'	--	10.2	90° 10'	-4.5	-14.7		409.8		-127	+1551	829,007	481,652
181	1886		95° 30'	--	5.0	89° 40'	+11.0	+6.0		430.5		-148	+1880	828,986	481,981
182	2215		95° 05'	--	11.1	89° 20'	+25.8	+14.7		439.2		-158	+2209	828,976	482,310
183	2545		94° 30' 34"	--	11.8	89° 20'	+29.6	+17.8		442.4	TP	-156	+2540	828,978	482,641
183	2545				11.5	270° 40'	+29.6	+18.1	+17.9		TP				
	1299		271° 14'	-1.0	4.0	91° -	+22.7	+26.7			BS	-5	+1299		
	1299				3.9	269° -	+22.7	+26.6	469.0		BS				
184	969		271° 14'	--	7.2	91° -	-16.9	-24.1		444.9		+4	-969	828,977	482,971
185	639		-	--	10.7	91° -	-11.2	-21.9		447.1		+3	-639	828,976	483,301
186	309		-	--	9.4	91° -	-5.4	-14.9		454.2		+1	-309	828,974	483,631
±	12		296° 36' 05"	--	5.1	-		-5.1		463.9		+5	-11	828,978	483,929
±	0				5.1	-		-5.1		463.9	±	0	0	828,973	483,940
187	28		12° 45'	-1.0	5.0	-		-5.0		464.0		+27	+6	829,000	483,946
188	358		7° 30'	--	12.9	-		-12.9		456.1		+356	+41	829,329	483,981
TP	648		9° 09' 34"	-1.2	9.1	91° -	-11.3	-20.4		448.6	TP	+642	+90	829,615	484,630
TP	648				9.0	269° -	-11.3	-20.3			TP				
											BS				
											BS				

SCHLEY CO. ↑
 MACH. CO. ↓
 # T - ENTER. EL. 463.0
 3 - 828.990 X - 483.905

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3-15-85		B. Cotcamp		K. Greenfield		6834		B.C. [Signature]		20		17			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		IOCAL South-7 1/2'		G.A.		MACON									
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
									448.6						
	1972		212° 23' 09"	-1.2°	4.2	89°	-34.4	-30.2			BS	+1687	+1021		
	1972				4.1	271°	-34.4	-30.3	418.3		BS				
189	1929		212° 08'	--	9.8	88° 50'	+39.3	+29.5		447.9		-1655	-992	829,647	484,059
190	1598		212° 16'	--	9.7	88° 50'	+32.5	+22.8		441.1		-1369	-825	829,933	494,226
191	1268		" "	--	10.2	88° 50'	+25.8	+15.6		433.9		-1086	-654	830,216	484,397
192	938		" "	--	10.8	88° 50'	+19.1	+8.3		426.6		-803	-484	830,499	484,567
193	608		" "	--	10.4	88° 50'	+12.4	+2.0		420.3		-521	-314	830,781	484,737
194	278		" "	--	6.9	88°	+9.7	+2.8		421.1		-238	-143	831,064	484,908
π	0				5.1	-	-	-5.1		413.2	π	0	0	831,302	485,051
195	52		33° -	-1.2	5.6	93°	-2.7	-8.3		410.0		+44	+27	831,346	485,078
196	371		43° 50'	--	7.0	93°	-19.4	-26.4		391.9		+273	+251	831,575	485,302
197	648		64° 50'	--	9.5	93°	-33.9	-43.4		374.9		+288	+581	831,590	485,632
198	957		73° 12'	--	11.8	93° 10'	-52.8	-64.6		353.7		+296	+910	831,598	485,961
199	1279		76° 58'	--	7.8	93°	-66.8	-74.6		343.7		+314	+1240	831,616	486,291
200	1608		77° 20'	--	10.1	92°	-56.1	-66.2		352.1		+385	+1561	831,687	486,612
201	1869		81° 30'	--	8.2	91°	-32.6	-40.8		377.5		+315	+1842	831,617	486,893
202	2035		89° 53'	--	8.7	90° 20'	-11.8	-20.5		397.8		+47	+2034	831,349	487,085
203	2248		96° 37'	--	6.9	89° 40'	+13.1	+6.2		424.5		-212	+2238	831,090	487,289
204	2546		99° 43'	--	8.9	89° 20'	+29.6	+20.7		439.0		-377	+2518	830,925	487,569

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3-15-85		B. Costamp		K. Greenhall		6834		B.C.W.		26		18			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		IDEAL South-7 1/2'		G.A.		Macon								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
									418.3						
205	2876		100 06 22	-1.2	12.4	89° 14'	+38.5	+26.1			TP	-445	+2841	830,857	487,892
205	2876				12.7	270 46	+38.5	+25.8	+25.9	444.2	TP				
	382		293 02 57	-- +	2.2	89°	-6.7	-4.5	439.7		BS	-142	+355		
	382				+ 8.8	88°	-13.3	-4.5			BS				
206	52		292 30	--	5.6	89°	+0.9	-4.7		435.0		+19	-48	830,734	488,199
Σ	6				5.1	-		-5.1		434.6	TP	0	0	830,715	488,247
207	279		146 20	-1.2	7.3	90° 30'	-2.4	-9.7		430.0		-211	+183	830,504	488,430
208	609		142° 30	--	6.5	90° 30'	-5.3	-11.8		427.9		-475	+381	830,240	488,628
W	704		141 06 18	--	5.8	90° 30'	-6.1	-11.9		427.8		-539	+453	830,176	488,700
TP	792		139 52 41	--	9.4	90° 10'	-2.3	-11.7		428.0	TP	-595	+523	830,120	488,770
TP	792				11.7	-		-11.7			TP				
	1463		284 14 45	-1.0	+16.8	268 30	+38.3	+49.1	477.1		BS	-335	+1424		
	1463				+ 15.1	91 20	+34.0	+49.1			BS				
209	1320		283 50	--	12.9	91 20	-30.7	-43.6		433.5		+293	-1287	830,078	488,907
210	990			--	7.9	91 20	-23.0	-30.9		446.2		+220	-965	830,005	489,229
211	660			--	9.1	90° 50'	-9.6	-18.7		458.4		+147	-644	829,932	489,550
212	330			--	5.1	90 50	-4.8	-9.9		467.2		+73	-322	829,858	489,872
213	0				5.1	-		-5.1		472.0	TP	0	0	829,785	490,194
214	330		103 55	-1.0	5.0	89 30	+2.9	-2.1		475.0		-74	+322	829,711	490,516
215	660			--	9.0	-		-9.0		468.1		-148	+643	829,637	490,837

Σ x = 839,195 x = 488,695
Σ y = 2122.0 y = 426.0

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3-15-85		B. Cotamp		K. Greenfield		6834		B.C.W		20		19			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Georgia		IDEAL South -7 1/2'		G.A.		Macon								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
									477.1						
216	992		104° 33' 55"	-1.0	6.9	-		-6.9		470.2	TP	-233	+964	829,552	491,158
216	992				11.8	TH	+5.0	-6.8			TP				
	968		314° 24' 26"	--	+12.1	-		+12.1			BS	-665	+703		
	968				+12.0	270° -		+12.0	482.2		BS				
217	637		314° 24'	--	9.1	-		-9.1		473.1		+438	-463	829,325	491,398
218	314		305° 30'	--	9.1	-		-9.1		473.1		+178	-259	829,065	491,602
219	0				5.1	-		-5.1		477.1	TP	0	0	828,887	491,861
220	336		91° -	--	5.4	TH	+1.7	-3.7		478.5		±0	+330	828,887	492,191
221	660		- -	--	9.8	89° -	+11.5	+1.7		493.9		±0	+660	828,887	492,521
222	990		91° 13' 54"	--	6.7	TH	+5.0	-1.7			TP	-4	+990	828,883	492,851
222	990				10.4	89° 30'	+8.6	-1.8		480.4	TP				
	3632		271° 13' 17"	-1.2	+3.2	-		+3.2	483.4		BS	-1	+3632		
	3632				+2.9	270° -		+2.9	+3.0?		BS				
223	3300		271° 05'	--	8.9	89° 56'	+3.8	-5.1		478.3		-7	-3300	828,875	493,183
224	2970		- -	--	10.3	89° 56'	+3.4	-6.9		476.5		-6	-2970	828,870	493,513
225	2640		- -	--	11.2	89° 56'	+3.1	-8.1		475.3		-5	-2640	828,877	493,843
226	2310		- -	--	11.1	89° 56'	+2.7	-8.4		475.0		-5	-2310	828,877	494,173
227	1980		271° 02'	-1.2	7.6	89° 56'	+2.3	-5.3		478.1		-6	-1980	828,874	494,503
228	1650		- -	--	6.7	89° 56'	+1.9	-4.8		478.6		-5	-1650	828,877	494,833
229	1320		- -	--	5.2	-		-5.2		478.2		-4	-1320	828,878	495,163

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3-15.85		B. Cotcamp		K. Greenfield		6834		B.C.W		20		20			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Georgia		IDEAL South-1/4'		G.A.		Macon								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.		Y
									483.4						
230	990		270° 56'	-1.2	6.4	-		-6.4		477.0		-5	-990	828,877	495,493
231	660		-	--	5.7	-		-5.7		477.7		-3	-660	828,877	495,823
232	330		-	--	6.2	TH	11.7	-4.5		478.9		-2	-330	828,880	496,153
233	0				5.1	-		-5.1		478.3	T	0	0	828,882	496,483
234	330		90° 25'	-1.2	6.2	-		-6.2		477.2		+5	+330	828,887	496,813
235	660		-	--	6.9	-		-6.9		476.5		+9	+660	828,891	497,143
236	989		89° 40'	--	6.6	-		-6.6		476.8		+26	+989	828,908	497,472
237	1243		78° 55'	--	7.6	-		-7.0		476.4		+264	+1215	829,146	497,698
238	1539		72° 55'	--	7.7	-		-7.7		475.7		+483	+1461	829,365	497,944
239	1851		69° 12'	--	7.9	-		-7.9		475.5		+693	+1716	829,575	498,199
240	2174		67° 30'	-1.2	8.2	-		-8.2		475.2		+874	+1991	829,756	498,474
241	2503		66° 40'	--	8.9	-		-8.9		474.5		+1039	+2277	829,921	498,760
242	2833		66° 25'	--	9.0	-		-9.0		474.4		+1188	+2572	830,070	499,055
243	3163		66° 25' 24"	--	12.4	-		-12.4		471.0	TP	+1326	+2872	830,208	499,355
243	3163				12.3	270°		-12.3			TP				
	1864		255° 31' 03"	-1.2	10.3	89° 10'	-27.1	-16.8			BS	+504	+1794		
	1864				10.2	270° 50'	-27.1	-16.9	454.1		BS				
244	1534		255° 17'	--	9.8	89° 10'	+22.3	+12.5		466.6		-421	-1475	830,291	499,674
245	1204		-	--	10.5	89° 10'	+17.5	+7.0		461.1		-330	-1158	830,382	499,991
246	874		-	--	10.0	89° 10'	+12.7	+2.7		456.8		-240	-840	830,472	500,309

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3-15-85		B. Cotcamp		K. Greenfield		6834		B. Clark		20		21			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Georgia		IDEAL South-7 1/2'		G.A.		Macon								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
									454.1						
247	544		255°	-1.2°	8.0	89°10'	+7.9	-0.1		454.0		-152	-522	830,560	500,627
248	220		249°35'	--	6.5	89°10'	+3.2	-3.3		450.8		-81	-205	830,631	500,944
TP	0				5.1	-		-5.1		449.0	TP	0	0	830,712	501,149
249	138		118°05'	-1.2°	8.0	89°20'	+2.0	-6.0		448.1		-62	+123	830,650	501,272
250	460		100°29'	--	11.3	89°40'	+2.7	-8.6		445.5		-74	+454	830,638	501,603
251	790		- -	--	11.0	89°40'	+4.6	-6.4		447.7		-127	+780	830,585	501,929
252	1120		- -	--	6.6	89°40'	+6.5	-0.1		454.0		-181	+1105	830,531	502,254
253	1450		- -	--	6.7	89°30'	+12.7	+6.0		460.1		-234	+1431	830,478	502,580
21	1741		99°36'39"	--	4.4	89°30'	+15.2	+10.8		464.9	TP	-255	+1722	830,457	502,871
21	1741				4.3	270°30'	+15.2	+10.9			TP				
	1800		203°53'41"	-1.2°	7.0	BH	+9.0	+16.0			BS	+1661	+694		
	1800				+6.9	BH 210'	+9.0	+15.9	480.8		BS				
254	1760		203°38'	--	7.8	BH	-8.8	-16.6		464.2		-1627	-672	830,491	502,893
255	1434		203°39'	--	10.8	BH	-7.2	-18.0		462.8		-1325	-548	830,793	503,017
256	1104		- -	--	12.7	-		-12.7		468.1		-1020	-422	831,098	503,143
257	774		- -	--	7.7	-		-7.7		473.1		-715	-296	831,403	503,269
258	444		- -	--	6.7	-		-6.7		474.1		-410	-170	831,708	503,395
259	114		200°50'	--	5.7	-		-5.7		475.1		-107	-38	832,011	503,527
TP	0				5.1	-		-5.1		475.7	TP	0	0	832,118	503,565
260	229		61°02'	-1.2°	7.6	-		-7.6		473.2		+115	+198	832,233	503,763

1/2 y - 830,435 x - 502,870
1/2 T - Inter.

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3.15.85		B. Cotcamp		K. Greenfield		6834		B.C.W.		20		22			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Georgia		IDEAL South-7 1/2'		G.A.		Macon								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-	EAST+ WEST-		Y
									480.8						
261	559		61° 03'	-1.2°	9.1	-	-9.1		471.7			+281	+483	832,399	504,048
262	889		-	--	9.0	-	-9.0		471.8			+447	+769	832,565	504,334
263	1219		-	--	11.2	-	-11.2		469.6			+612	+1054	832,730	504,619
264	1549		62° 23' 02"	--	11.8	-	-11.8		469.0	TP		+747	+1357	832,865	504,922
264	1549				11.7	270° -	-11.7			TP					
	1321		264° 00' 58"	-1.2°	8.6	89° 10'	-19.2	-11.2			BS	+165	+1310		
	1321				+7.9	270° 50'	-19.2	-11.3	457.7		BS				
265	990		264° 10'	--	7.2	89° 10'	+14.4	+7.2		464.9		-121	-983	832,909	505,249
266	660		264° 30'	--	12.1	89° 10'	+9.6	-2.5		455.2		-77	-655	832,953	505,577
267	330		265° -	--	8.4	89° 16'	+4.8	-3.6		454.1		-36	-328	832,994	505,904
7/8	223		266° 37' 06"	--	1.9	-		-1.9		455.8	7/8	-18	-222	833,012	506,010
268	0				5.1	-		-5.1		452.6	X	0	0	833,030	506,232
269	330		91° -	-1.2°	8.8	91° -	-5.8	-14.6		443.1		+1	+330	833,031	506,562
270	660		-	--	11.0	91° -	-11.5	-22.5		435.2		+2	+660	833,032	506,892
271	990		-	--	6.7	91° -	-17.3	-24.0		433.7		+3	+990	833,033	507,222
272	1320		91° -	--	9.4	BH	-6.6	-16.0		441.7		+5	+1320	833,035	507,552
273	1650		-	--	11.7	TH	+8.3	-3.4		454.3		+6	+1650	833,036	507,882
274	1981		90° 47' 42"	-1.0°	5.2	TH	+9.9	+4.7		462.4	TP	+7	+1981	833,037	508,213
274	1981				5.1	TH ₂₀	+9.9	+4.8			TP				

7/8 3 833,000 x-506,010
7/8 4 way Inter. El. 455.0

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3.15.85		B. Cotcamp		K. Greenfield		6834		B. C. W.		20		23			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		IDEAL South-7 1/2		G.A.		Macon								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
									462.4						
	2641		272° 28' 55"	-1.6 +	8.4	89° 30'	-23.1	-14.7	447.5		BS	-68	+2640		
	2641				+ 8.1	270° 30'	-23.1	-15.0		-14.98	BS				
275	2310		272° 26'	--	11.1	89° 20'	+26.9	+15.8		463.3		+58	-2309	833,027 508,544	
276	1980		- -	--	8.1	89° 20'	+23.0	+14.9		462.4		+50	-1979	833,019 508,874	
277	1650		- -	--	7.7	89° 20'	+19.2	+11.5		459.0		+41	-1649	833,010 509,374	
278	1320		272° 26'	-1.0	11.9	89° 20'	+15.4	+3.5		451.0		+33	-1320	833,002 509,533	
279	990		- -	--	7.1	89° 50'	+2.9	-4.2		443.3		+25	-990	832,994 509,863	
280	660		- -	--	10.0	89° 50'	+1.9	-8.1		439.4		+17	-660	832,986 510,193	
281	330		- -	--	10.2	89° 50'	+1.0	-9.2		438.3		+8	-330	832,977 510,523	
282	0				5.1	-		-5.1		442.4	X	0	0	832,969 510,853	
283	330		108° 50'	-1.0	6.2	89° 10'	+4.8	-1.4		446.1		-101	+314	832,868 511,167	
284	660		108° 25'	--	5.1	-		-5.1		442.4		-198	+630	832,771 511,483	
TP	724		107° 14' 22"	--	5.7	-		-5.7		441.8	TP	-202	+695	832,769 511,548	
TP	724				9.3	74	+3.6	-5.7			TP				
	522		274° 04' 48"	-1.0 +	4.6	89°	-9.1	-4.5	437.3		BS	-28	+521		
	522				+13.7	88°	-18.2	-4.5		BS					
285	259		275° -	--	7.9	87° 20'	+12.0	+4.1		441.4		+18	-258	832,757 511,811	
X	0				5.1	-		-5.1		432.2	X	0	0	832,739 512,069	
286	72		98° 53'	--	5.8	92° 40'	-3.3	-9.1		428.2		-10	+71	832,729 512,140	
287	402		- -	--	7.9	92° 40'	-18.7	-26.6		410.7		-55	+398	832,684 512,467	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3-15-85		B. Cotcamp		K. Greenfield		6834		B.C.K.		20		24			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Georgia		MONTEZUMA-72		G.A.		Macon								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
									437.3						
288	732		98° 52'	-1.0	13.0	92° 40'	-34.0	-47.0		390.3		-100	+725	832,639	512,794
289	1062		- ~ 1	..	3.2	92° 40'	-49.4	-52.6		384.7		-145	+1052	832,594	513,121
290	1390		99° 56 04	--	10.6	91° 20'	-32.3	-42.9		394.4	TP	-216	+1373	832,523	513,442
290	1390				10.5	268° 40'	-32.3	-42.8			TP				
	1113		295° 13 45	-1.0	9.4	91° 40'	+49.8	+59.2			BS	-703	+1561		
	1713				9.3	268° 20'	+49.8	+59.1	453.5		BS				
291	1383		295° 15'	--	6.0	91° 40'	-40.2	-46.2		407.3		+568	-1261	832,388	513,742
292	1053		295° 30'	--	12.0	91° 10'	-21.4	-32.4		420.1		+437	-958	832,257	514,045
293	724		294° 40'	--	9.1	91° 10'	-14.7	-23.8		429.7		+291	-663	832,111	514,340
294	395		291°	--	7.1	91° 10'	-8.0	-15.1		438.4		+135	-371	831,955	514,632
295	79		258° 40'	--	7.1	91° 10'	-1.6	-8.7		444.8		-17	-77	831,803	514,926
π	0				5.1	-		-5.1		448.4	π	0	0	831,820	515,003
296	265		120° 05'	-1.0	9.0	90° 10'	-0.8	-9.8		443.7		-129	+232	831,691	515,235
297	585		109° 35'	..	12.0	90° 10'	-1.7	-13.7		439.8		-186	+555	831,634	515,558
298	908		103° 20'	--	10.8	90° 20'	-5.3	-16.1		437.4		-194	+887	831,626	515,890
299	1231		99° 30'	--	8.7	90° 20'	-7.2	-15.9		437.6		-182	+1217	831,638	516,220
300	1556		97° 15'	--	5.0	90° 20'	-9.1	-14.1		439.4		-169	+1547	831,651	516,550
301	1883		95° 44 50	-1.2	12.4	-		-12.4		441.1	TP	-149	+1877	831,671	516,880
301	1883				12.3	270°		-12.3			TP				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
3.15.85		B. Cotamp		K. Greenfield		6834		B.C.W		20		25				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
Georgia		MONTEZUMA - 1/4"		G.A.		Macon								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	X
										441.1						
	2971		269° 12' 40"	-1.2	8.9	89° 10'	-43.2	-34.3			BS	+103	+2969			
	2971				8.8	270° 50'	-43.2	-34.4	406.7		BS					
302	2640		269° 10'	--	8.2	89° 10'	+38.4	+30.2		436.9		-94	-2638	831,680	517,211	
303	2310		- -	--	10.1	89° 10'	+33.6	+23.5		430.2		-82	-2309	831,692	517,540	
304	1980		- -	--	11.2	89° 10'	+28.8	+17.6		424.3		-70	-1979	831,704	517,870	
305	1650		269° 16'	-1.2	11.8	89° 10'	+24.0	+12.2		418.9		-59	-1649	831,715	518,200	
306	1320		- -	--	11.1	89° 10'	+19.2	+8.1		414.8		-47	-1319	831,727	518,530	
307	990		- -	--	9.7	89° 10'	+14.4	+4.7		411.4		-35	-989	831,739	518,860	
308	660		- -	--	7.7	89° 10'	+9.6	+1.9		408.6		-23	-660	831,751	519,189	
309	330		- -	--	6.6	89° 10'	+4.8	-1.8		404.9		-12	-330	831,762	519,519	
310	0				5.1	-		-5.1		401.6	X	0	0	831,774	519,849	
311	330		89° 51'	-1.2	7.9	-		-7.9		398.8		+8	+330	831,782	520,179	
312	660		- -	--	11.0	-		-11.0		395.7		+16	+660	831,790	520,509	
313	990		- -	--	8.3	BH	-5.0	-13.3		393.4		+23	+990	831,797	520,839	
314	1127		89° 10' 54"	--	8.2	BH	-5.6	-13.8		392.9	31	+40	+1126	831,814	520,975	41 4-831,800 X-520,975 T-INTL.
314	1320		89° 51'	--	8.2	BH	-6.6	-14.8		391.9		+31	+1320	831,805	521,169	
315	1650		- -	--	7.0	BH	-8.3	-15.3		391.4		+39	+1650	831,813	521,499	
316	1980		- -	--	4.2	BH	-9.9	-14.1		392.6		+47	+1979	831,821	521,828	
317	2310		- -	--	13.1	-		-13.1		393.6		+54	+2309	831,828	522,158	
318	2640		- -	--	12.4	-		-12.4		394.3		+62	+2639	831,836	522,488	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	3.15.85	INSTRUMENT MAN	B. Cotcamp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	KWA	LINE NO.	20	PAGE	26	
AREA	Georgia	TOPO MAP	MONTICUMA-7 1/2'	STATE	G.A.	COUNTY	Macon	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.	
									406.7					
319	2970		89° 51'	-1.2°	11.7	-		-11.7		395.0		+ 70	+2969	831,844 522,818
320	3301		89° 50' 37"	--	11.8	-		-11.8		395.0	TP	+78	+3300	831,852 523,149
320	3301				11.5	276'		-11.5	-11.7		TP			
	1320		269° 40' 01"	--	+10.5	89° 20'	-15.4	-4.9	390.1		BS	+35	+1319	
	1320				+6.7	89° 30'	-11.5	-4.8			BS			
41	1057		270° 16' 26"	-1.2°	6.7	89° 30'	+9.2	+2.5		392.6	41	-17	-1057	831,870 523,410 1/4-831,870 x-523,410 1/4 T-Inter. Horiz. y-H6 CORR. x-10
321	990		269° 40'	--	7.2	89° 30'	+8.6	+1.4		391.5		-26	-990	831,861 523,477
322	660		-	--	8.1	89° 30'	+5.8	-2.3		387.8		-18	-660	831,869 523,807
323	330		-	--	7.0	88° 30'	+8.6	+1.6		391.7		-9	-330	831,878 524,137
324	0				5.1	-		-5.1		385.0	T	0	0	831,887 524,467
325	330		85° 10'	-1.2	9.7	91° 30'	-8.6	-18.3		371.8		+35	+328	831,922 524,795
326	657		80° 25'	--	10.6	91° 30'	-17.2	-27.8		362.3		+123	+645	832,010 525,112
TP	793		78° 47' 12"	--	9.7	91° 30'	-20.8	-30.5		359.6	TP	+170	+774	832,059 525,241
TP	793				9.6	268° 30'	-20.8	-30.4			TP			
	2173		249° 50' 20"	-1.2°	+12.8	89° 30'	-19.0	-6.2			BS	+791	+2024	
	2173				12.7	270° 30'	-19.0	-6.3	353.3		BS			
327	1980		249° 55'	--	6.9	TH	+9.9	+3.0		356.3		-719	-1845	832,129 525,420
328	1650		-	--	8.9	TH	+8.3	-0.6		352.7		-599	-1537	832,249 525,728
329	1320		-	--	10.0	TH	+6.6	-3.4		349.9		-479	-1230	832,369 526,035
330	990		-	--	9.1	TH	+5.0	-4.1		349.2		-359	-922	832,489 526,343

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3-15-85		B. Cotcamp		K. Greenfield		6834		HUC				27			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		MONTEZUMA-7 1/2		G.A.		Macon								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
									353.3						
331	660		250° 45'	-1.2	8.0	TH	+3.3	-4.7		348.6		-231	-618	832,617	526,647
332	330		~	--	6.6	TH	+1.7	-4.9		348.4		-115	-309	832,233	526,956
333	0				5.1	-		-5.1		348.2	X	0	0	832,848	527,265
334	330		76° 15'	-1.2	6.3	-		-6.3		347.0		+85	+319	832,933	527,584
335	377		74° 55' 40"	--	6.4	-		-6.4		346.9	3/1	+106	+362	832,954	527,627
335	660		77° 25'	--	8.1	-		-8.1		345.2		+157	+641	833,005	527,906
336	990		78° 05'	--	5.1	BH	5.0	-10.1		343.2		+225	+964	833,073	528,229
337	1320		78° 35'	--	8.2	-		-8.2		345.1		+288	+1288	833,136	528,553
338	1650		78° 55'	--	8.9	-		-8.9		344.4		+351	+1612	833,199	528,897
3/1	1842		78° 51' 02"	--	9.2	-		-9.2		344.1	3/1	+394	+1799	833,242	529,064
TP	2173				12.8	89° 30'	+19.0	+6.2		359.5	TP				
TP	2173				12.7	270° 30'	+19.0	+6.3			TP				
	793				+9.7	91° 30'	+20.8	+30.5			BS				
	793				+9.6	268° 30'	+20.7	+30.4	389.9		BS				
X	0				5.1	-		-5.1		384.8	X				
3/1	1057				6.7	89° 30'	+9.2	+2.5		392.4	3/1				
3/1	1057				6.6	270° 30'	+9.2	+2.6			3/1				
	1443				+5.4	-		+5.4	397.6		BS				
	1443				+5.1	270°		+5.1	5.23		BS				
X	0				5.1	-		-5.1		392.5	X				

3/1 Y-832,935 X-527,615
T-Inter.




E.O.L. on west side of Montezuma
3/1 Y-833,220 X-529,990
Y-Inter.

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 3-16-85	INSTRUMENT MAN B. Cotcamp	ROD MAN K. Greenfield	PARTY NUMBER 6834	NOTES CHECKED BY B.C.W.	LINE NO. 20	PAGE 28
AREA GEORGIA	TOPO MAP MONTEZUMA-7 1/2	STATE GA	COUNTY Macon	TWP	RANGE	PPM
PARTY MANAGER 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 X TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS
												LAT.	DEP.	Y	X	
									377.6							
TP	1502				10.2	91°	-26.2	-36.4	} 36.3	361.3	TP					
TP	1502				9.9	269°	-26.2	-36.1		TP						
	2907				+8.0	89°40'	-16.9	-8.9	} 352.3		BS					
	2907				+7.9	270°20'	-16.9	-9.0		BS						
X	0				5.1	-		-5.1		349.2	X					
	1639				6.5	89°40'	+9.5	+3.0	}	355.3	X					
	1639				6.4	270°20'	+9.5	+3.1		X						

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3-18-85		B. G. Stamp		K. Greenfield		6834		KUCHE		20		29			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		MONTEZUMA - 7 1/2'		G.A.		Macon								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
K. y	INTERSECT		ELEV. 323.0 (scaled)		829.675	x - 542.575				323.0					Y - 829.675 X - 542.575 Fy - INTER. EL. 323.0
	3021		281 38 58	-1.3	12.6	89° 50'	-8.8	+3.8	327.1		BS	-543	+2972		
	3021				13.1	270° 10'	-8.8	+4.3	+4.13		BS	-	-		
381	2971		282 -	--	5.9	-	-5.9			321.2		+552	-2919	829,683	542,627
382	2641		- -	--	6.5	-	-6.5			320.6		+490	-2595	829,621	542,951
383	2310		- -	--	5.5	-	-5.5			321.6		+429	-2270	829,560	543,276
384	1980		282 -	-1.3	5.3	-	-5.3			321.8		+368	-1946	829,499	543,600
385	1650		- -	--	5.5	-	-5.5			321.6		+306	-1621	829,437	543,925
386	1320		282° 05'	--	7.9	-	-7.9			319.2		+247	-1297	829,378	544,249
387	990		- -	--	7.2	-	-7.2			319.9		+185	-973	829,316	544,573
388	660		- -	--	5.9	-	-5.9			321.2		+123	-648	829,254	544,898
389	330		- -	--	5.1	-	-5.1			322.0		+62	-324	829,193	545,222
390	0				5.1	-	-5.1			322.0	K	0	0	829,131	545,546
391	330		102 32	-1.3	4.8	-	-4.8			322.3		-64	+324	829,067	545,870
392	660		- -	--	4.0	-	-4.0			323.1		-129	+647	829,002	546,193
393	990		- -	--	6.2	TH	+5.0	-1.2		325.9		-193	+971	828,938	546,517
394	1320		- -	--	3.5	TH	+6.6	+3.1		330.2		-257	+1295	828,874	546,841
395	1650		- -	--	7.1	89° 30'	+14.4	+7.3		334.4		-321	+1618	828,810	547,164
396	1980		102 40	-1.3	9.1	89° 30'	+17.3	+9.2		335.3		-390	+1941	828,741	547,487
397	2310		102 45	--	12.3	89° 30'	+20.2	+7.9		335.0		-459	+2264	828,672	547,810
398	2640		- -	--	9.0	89° 40'	+15.4	+6.4		333.5		-524	+2587	828,607	548,133

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	5-18-85	INSTRUMENT MAN	B. Cotcamp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	KWG	LINE NO.	20	PAGE	30	
AREA	GEORGIA	TOPO MAP	Montezuma - 7 1/2'	STATE	G.A.	COUNTY	Macon	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.	
									327.1					
399	2969		102° 36' 22"	-1.3	12.1	89° 44'	+13.8	+1.7		328.8	TP	-582	+2911	828,548 548,455
399	2969				12.2	270° 16'	+13.8	+1.6			TP	-1	-2	
	987		262° 29' 28"	--	+10.6	-		+10.6		33	BS	+151	+975	
	987				+10.7	270° -		+10.7		339.5	BS	-1	-2	
400	660		262° 20'	--	6.3	-		-6.3		333.2		-103	-652	828,595 548,776
401	330		- -	--	5.5	-		-5.5		334.0		-51	-326	828,647 549,102
402	0				5.1	-		-5.1		334.4	π	0	0	828,698 549,428
403	330		90° 08'	-1.3	5.8	-		-5.8		333.7		+7	+330	828,705 549,758
404	660		- -	--	6.9	-		-6.9		332.6		+13	+660	828,711 550,088
405	990		- -	--	6.8	-		-6.8		332.7		+20	+990	828,718 550,419
406	1320		- -	--	5.2	-		-5.2		334.3		+27	+1320	828,725 550,748
#	1483		89° 42' 32"	--	2.5	-		-2.5		337.0	#	+41	+1482	828,739 550,910 # High. #90 EL. 337.0
407	1650		90° 08'	--	3.2	BH	+8.3	+5.1		344.6		+34	+1650	828,732 551,078
408	1982		90° 09' 58"	-1.5	4.9	89° 30'	+17.3	+12.4		351.9	TP	+46	+1981	828,743 551,407 ACROSS STA.
408	1982				5.0	270° 30'	+17.3	+12.3			TP	-1	-2	MONTZUMA - 7 1/2'
	2973		281° 12' 21"	--	+14.5	BH	+14.9	+29.4		381.5	BS	-501	+2930	
	2973				+14.8	BH 270	+14.9	+29.7		296.3	BS	-1	-2	MARSHALLVILLE S.W. 7k
409	2641		281° 05'	--	8.1	BH	-13.2	-21.3		360.2		+140	-2604	828,681 551,731
410	2310		- -	--	9.4	BH	-11.6	-21.0		360.5		+385	-2278	828,626 552,057
411	1980		- -	--	12.8	BH	-9.9	-22.7		358.8		+330	-1952	828,571 552,383

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3-18-85		B. Cotcamp		K. Greenfield		6834		HWG W		20		31			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		MARSHALLVILLE S.W.-72		G.A.		Macon								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
									381.5						
412	1650		280° 55'	-1.5	9.4	90° 30'	-14.4	-23.8				+ 270	-1628	828,511	552,707
413	1471		281° 02' 08"	--	10.5	90° 30'	-12.8	-23.3		358.2	TP	+ 244	-1451	828,485	552,884
414	1320		280° 52'	--	11.8	90° 30'	-11.5	-23.3		358.2		+ 215	-1302	828,456	553,033
415	990		-	--	11.1	90° 30'	-8.6	-19.7		361.8		+ 161	-977	828,402	553,358
416	660		-	--	8.1	90° 30'	-5.8	-13.9		367.6		+ 107	-651	828,348	553,684
417	330		280° 15'	-1.5	5.9	90° 30'	-2.9	-8.8		372.7		+ 50	-326	828,291	554,009
418	0		-	--	5.1	-	-	-5.1		376.4	X	0	0	828,241	554,335
419	330		91° 26'	--	7.6	90° 30'	-2.9	-10.5		371.0		+ 0	+330	828,241	554,665
420	660		-	--	8.0	90° 30'	-5.8	-13.8		367.7		+ 1	+660	828,242	554,995
421	990		-	--	9.2	90° 30'	-8.6	-17.8		363.7		+ 1	+990	828,242	555,325
422	1320		-	--	8.3	90° 30'	-11.5	-19.8		361.7		+ 2	+1320	828,243	555,655
423	1650		91° 26'	-1.5	7.4	90° 30'	-14.4	-21.8		359.7		+ 2	+1650	828,243	555,985
424	1980		-	--	5.3	90° 30'	-17.3	-22.6		358.9		+ 2	+1980	828,243	556,315
425	2310		-	--	3.0	90° 30'	-20.2	-23.2		358.3		+ 3	+2310	828,244	556,645
426	2640		-	--	7.0	90° 20'	-15.4	-22.4		359.1		+ 3	+2640	828,244	556,975
427	2970		-	--	3.0	90° 20'	-17.3	-20.3		361.2		+ 3	+2970	828,244	557,305
428	3300		91° 26'	--	6.9	90° 10'	-9.6	-16.5		365.0		+ 4	+3300	828,245	557,635
429	3632		91° 20' 40"	--	10.9	-	-	-10.9		370.5	TP	+10	+3632	828,250	557,965
430	3632		-	--	11.2	270°	-	-11.2	-11.0		TP	-1	-2		

J-828,495 x-552,870
4 way ELEV. EL. 358.0

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3-18-85		B. Cotcamp		K. Greenfield		6834		KWA		20		32			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		MARSHALLVILLE S.W.-7		G.A.		Macon								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 I TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
										370.5					
	2938		262° 07' 46"	-1.5°	9.4	90° 26'	+22.2	+31.6	402.3		BS	+478	+2899		
	2938				9.7	269° 34'	+22.2	+31.9	+31.8		BS	-1	-2		
429	2611		262° 30'	--	7.9	90° 30'	-22.8	-30.7		371.6		-408	-2579	828,319 558,263	
#	2343		263° 39' 26"	--	10.3	90° 30'	-20.5	-30.8		371.5	#	-320	-2321	828,407 558,541 JTD - 828,400 X - 558,590 IF T - INTER. EL. 372.0	
430	2284		263° 30'	--	11.8	90° 30'	-19.9	-31.7		370.6		-318	-2262	828,409 558,600	
431	1958		262° -	-1.5°	9.0	90° 40'	-22.8	-31.8		370.5		-323	-1931	828,404 558,971	
432	1636		259° 40'	--	8.2	90° 40'	-19.0	-27.2		375.1		-335	-1601	828,392 559,261	
433	1317		256° 30'	--	7.1	90° 30'	-11.5	-18.6		383.7		-341	-1272	828,386 559,590	
434	996		255° 10'	--	5.9	90° 30'	-8.6	-14.5		387.4		-278	-956	828,449 559,912	
435	660		-	--	12.8	90° 30'	-5.8	-18.6		383.7		-186	-633	828,541 560,229	
436	330		-	--	8.1	90° 30'	-2.9	-11.0		391.3		-93	-317	828,634 560,545	
437	0		-	--	5.1	-	-	-5.1		397.2	X	0	0	828,727 560,862	
438	330		73° 30'	-1.5°	7.9	90° 30'	-2.9	-10.8		391.5		+102	+314	828,829 561,176	
439	658		77° 10'	--	8.7	91° -	-11.5	-20.2		382.1		+163	+638	828,890 561,500	
440	980		82° 30'	--	11.0	91° -	-17.1	-28.1		374.2		+153	+968	828,880 561,830	
441	1303		86° -	--	10.3	91° -	-22.7	-33.0		369.3		+125	+1297	828,852 562,159	
442	1636		88° -	--	6.0	91° -	-28.4	-34.4		367.9		+100	+1627	828,827 562,489	
IF	1775		88° 35' 40"	--	11.2	90° 40'	-20.6	-31.8		370.5	IF	+90	+1773	828,817 562,635 J - 828,810 X - 562,690 IF T - INTER. EL. 372.0	
443	1957		89° 19' 58"	--	4.9	90° 54'	-30.7	-35.6			TP	+74	+1955	828,800 562,815	
443	1957			--	5.2	269° 06'	-30.7	-35.9	-35.9	366.6	TP	-1	-2		

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3-18-85		B. Camp		K. Greenfield		6834		KOR		26		33			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		MARSHALLVILLE S.W. 74		G.A.		Macon								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.		Y
										366.6					
2641			277° 30' 42"	-1.5°	1.3	89° 41'	-14.6	-13.3			BS	-277	+2626		
2641					1.4	270° 19'	-14.6	-13.2	353.4		BS	-1	-2		
444	2310		277° 35'	--	6.3	89° 40'	+13.4	+7.1		360.5		+245	-2297	828,767 563,142	
445	1980		-	--	10.8	89° 40'	+11.5	+0.7		354.1		+210	-1969	828,732 563,470	
446	1650		-	--	6.0	-	-	-6.0		347.4		+175	-1641	828,697 563,798	
447	1320		277° 35'	-1.5°	9.0	-	-	-9.0		344.4		+140	-1313	828,662 564,126	
448	990		-	--	9.2	BH	-5.0	-4.2		339.2		+105	-984	828,627 564,455	
449	660		-	--	12.5	BH	-3.3	-5.8		337.6		+70	-656	828,592 564,783	
450	330		-	--	10.2	-	-	-10.2		343.2		+35	-328	828,557 565,111	
451	0		-	--	5.1	-	-	-5.1		348.3	X	0	0	828,522 565,439	
452	330		96° -	-1.5°	5.0	TH	+1.7	-3.3		350.1		-26	+329	828,496 565,768	
453	660		-	--	5.3	TH	+3.3	2.0		351.4		-52	+658	828,470 566,097	
454	729		95° 09' 24"	--	1.4	-	-	-1.4		352.0	41	-46	+728	828,476 566,167 S-828,495 x-566,145 T-Inter. El. 355.0	
454	990		95° 35'	--	6.3	TH	+5.0	-1.3		352.1		-71	+987	828,451 566,426	
455	1320		95° 10'	--	9.1	TH	+6.6	-2.5		350.9		-84	+1317	828,438 566,756	
456	1650		94° 50'	--	8.8	-	-	-8.8		344.6		-96	+1647	828,426 567,086	
TP	1786		94° 42' 58"	--	12.7	-	-	-12.7			TP	-100	+1777	828,421 567,214	
TP	1780				12.6	270° -	-	-12.6		340.8	TP	-1	-2		
	1667		279° 00' 46"	-1.5°	2.7	89° 30'	-14.6	-11.9			BS	-218	+1653		
	1667				2.8	270° 30'	-14.6	-11.8	329.0		BS	-1	-2		

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3-18-85		B. Cotcamp		K. Greenfield		6834		KWD		20		34			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		MARSHALLVILLE SW. 7 1/2		G.A.		Macon								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.		Y
									329.0						
457	1467		278° 40'	-1.5	5.6	89° 40'	+8.5	+2.9		331.9		+183	-1456	828,385	567,409
458	1137		278° -	--	7.4	-		-7.4		321.6		+129	-1130	828,331	567,735
459	808		276° 40'	--	9.1	BM	-4.0	-13.1		315.9		+73	-805	828,275	568,060
460	480		273° -	--	11.9	BM	-2.4	-14.3		314.7		+13	-486	828,215	568,385
461	153		265° 50'	--	10.3	BM-		-10.3		318.7		-15	-152	828,187	568,713
Σ	0				5.1	-		-5.1		323.9	Σ	0	0	828,202	568,865
462	177		71° 45'	-1.5	6.3	86° 30'	+7.7	+1.4		330.4		+60	+167	828,262	569,032
463	506		68° 30'	--	8.8	86° 30'	+22.1	+13.3		342.3		+198	+466	828,400	569,331
464	836		67° 30'	--	9.8	87° -	+43.7	+33.9		362.9		+340	+764	828,542	569,629
465	1166		66° 17' 36"	--	12.4	87° 20'	+54.2	+41.8		370.8	TP	+496	+1054	828,697	569,917
465	1166				12.5	272° 40'	+54.2	+41.7			TP	-1	-2		
	1529		241° 03' 51"	-1.5	+11.3	89° 10'	-22.2	-10.9	359.9		BS	+774	+1318		
	1529				+11.2	270° 50'	-22.2	-11.0			BS	-1	-2		
466	1199		241° -	--	13.2	89° 20'	+13.9	+0.7		360.6		-609	-1033	828,861	570,200
467	870		240° 28'	--	15.6	89° 28'	+8.1	-7.5		352.4		-449	-745	829,021	570,488
468	539		239° 40'	--	12.0	89° 28'	+5.0	-7.0		352.9		-284	-458	829,186	570,775
IF	291		240° 17'	--	4.0	89° -	+5.1	+1.1		361.0	IF	-151	-249	829,319	570,994
469	209		238° 45'	--	5.1	88° 20'	+6.1	+1.0		360.9		-113	-176	829,357	571,057
Σ	0				5.1	-		-5.1		354.8	Σ	0	0	829,470	571,233
470	120		55° 50'	-1.5	7.2	-		-7.2		352.7		+70	+97	829,540	571,330

Y-828,310X-570,995
IF - Inter. E.L. 361.0

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3-18-85		B. Cotcamp		K. Greenfield		6834		KUG		20		35			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		MARSHALLVILLE S.W. 7 1/2		G.A.		Macon								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
									359.9						
471	450		55° 50'	-1.5	5.9	-		-5.9		354.0		+ 262	+ 366	829,732	571,599
472	780		- -	--	11.5	-		-11.5		348.4		+ 455	+ 634	829,925	571,867
473	1110		- -	--	15.9	BH	-5.6	-21.5		338.4		+ 647	+ 901	830,117	572,134
474	1440		- -	--	13.8	BH	-7.2	-21.0		339.9		+ 840	+ 1170	830,310	572,403
475	1770		55° 50'	-1.5	9.1	BH	-8.9	-18.0		341.9		+ 1032	+ 1438	830,502	572,671
476	2100		- -	--	4.0	BH	-10.5	-14.5		345.4		+ 1224	+ 1706	830,694	572,939
477	2430		- -	--	6.0	-		-6.0		353.9		+ 1417	+ 1974	830,887	573,207
478	2760		56° -	--	4.4	TH	+13.8	+9.4		369.3		+ 1603	+ 2247	831,073	573,480
TP	2864		55° 52' 05"	--	6.4	89° 36'	+20.0	+13.6			TP	+ 1668	+ 2328	831,137	573,559
TP	2864			--	6.3	270° 24'	+20.0	+13.7		373.6	TP	-1	-2		
	2538		244° 11' 29"	-1.5	1.6	90° 08'	+5.9	+7.5			BS	+ 1164	+ 2255		
	2538				1.5	269° 52'	+5.9	+7.4	381.0		BS	-1	-2		
479	2310		243° 55'	--	11.4	-		-11.4		369.6		- 1070	- 2047	831,230	573,765
#	2153		244° 07' 25"	--	14.6	-		-14.6		366.4	#	- 990	- 1912	831,310	573,900
480	1980		243° 55'	--	7.8	BH	-9.9	-17.7		363.3		- 917	- 1755	831,383	574,057
481	1650		- -	-1.5	11.9	BH	-8.3	-20.2		360.8		- 764	- 1462	831,536	574,350
482	1320		- -	--	9.1	90° 30'	-11.5	-20.6		360.4		- 611	- 1170	831,689	574,642
483	990		- -	--	11.6	90° 30'	-8.6	-20.2		360.8		- 458	- 877	831,842	574,935
484	660		- -	--	11.1	90° 30'	-5.8	-16.9		364.1		- 306	- 585	831,994	575,227
485	330		- -	--	7.2	90° 30'	-2.9	-10.1		370.9		- 153	- 292	832,147	575,520

480 - 831,310 x - 573,900
 481 - 831,310 x - 573,900
 482 - 831,310 x - 573,900
 483 - 831,310 x - 573,900
 484 - 831,310 x - 573,900
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 500 - 831,310 x - 573,900

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	3-18-85	INSTRUMENT MAN	B. Cotcamp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	KWB	LINE NO.	20	PAGE	36	
AREA	GEORGIA	TOPO MAP	MARSHALLVILLE S.W. 7 1/4	STATE	G.A.	COUNTY	Macon	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.	
									381.0					
486	0				5.1	-		-5.1		375.9	T	0	0	832,300 575,812
487	330		55° 50'	-1.5	5.1	90° 30'	-2.9	-8.0		373.0		+192	+268	832,492 574,080
488	657		51° 40'	..	6.9	90° 10'	-1.9	-8.8		372.2		+421	+505	832,721 576,317
489	985		49° -	..	5.0	90° 10'	-2.9	-7.9		373.1		+665	+726	832,965 576,538
TP	1361		46° 24' 12"	..	2.7	-		-2.7		378.3	TP	+922	+918	833,222 576,730 TP - 833,225 X - 576,725 TP - T - enter.
490	1305		48° -	-1.5	3.6	-		-3.6		377.4		+898	+947	833,178 576,759
491	1306		62° 44'	..	9.3	TH	+6.5	-2.8		378.2		+629	+1145	832,929 576,957
492	1404		76° 06'	..	9.1	TH	+7.0	-2.1		378.9		+373	+1354	832,673 577,166
493	1565		87° 13'	..	9.4	TH	+7.8	-1.6		379.4		+117	+1561	832,417 577,373
TP	1750		94° 51' 16"	..	14.2	89° 36'	+12.2	-2.0		379.0	TP	-102	+1747	832,198 577,559
TP	1750			..	14.1	270° 24'	+12.2	-2.1			TP			
	3012		312° 55' 20"	-1.5	+10.5	88° 50'	-61.3	-50.8	328.4		BS	-1992	+2258	
	3012				+10.8	271° 10'	-61.3	-50.5	-50.6		BS			
494	2969		312° 48'	..	9.8	88° 50'	+60.4	+50.6		379.0		+1960	-2231	832,166 577,586
495	2639		312° 25'	..	5.1	88° 50'	+53.7	+48.6		377.0		+1728	-1994	831,934 577,623
496	2309		- -	..	9.8	88° 40'	+53.7	+43.9		372.3		+1512	-1745	831,718 578,072
497	1979		312° 20'	-1.5	9.8	88° 50'	+40.3	+30.5		358.9		+1294	-1497	831,500 578,320
498	1649		312° 10'	..	9.0	88° 50'	+33.6	+24.6		353.0		+1075	-1251	831,281 578,566
499	1319		311° 58'	..	7.1	88° 40'	+30.7	+23.6		352.0		+856	-1003	831,062 578,814
500	989		311° 30'	..	7.8	88° 40'	+23.0	+15.2		343.6		+636	-758	830,842 579,059

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3-19-85		B. Camp		K. Greenfield		6834		XUL		20		37			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Georgia		MARSHALLVILLE S.W.-7 1/2		GA.		Macon								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.		Y
									328.4						
501	660		310° 50'	-1.5	11.8	88° 40'	+15.4	+3.6		332.0		+418	-510	830,624	579,307
502	330		308° 40'	--	11.8	88° 40'	+7.7	-4.1		324.3		+199	-263	830,405	579,554
503	0				5.1	-		-5.1		323.3	TP	0	0	830,206	579,817
504	330		117° 45'	-1.5	7.3	89° 40'	+1.9	-5.4		323.0		-146	+296	830,060	580,113
505	659		114° 55'	--	9.8	89° 40'	+3.8	-6.0		322.4		-262	+605	829,944	580,422
506	989		114° 25'	--	12.2	89° 40'	+5.8	-6.4		322.0		-385	+911	829,821	580,728
507	1312		117° -	--	7.8	-		-7.8		320.6		-565	+1184	829,641	581,001
TP	1536		119° 35' 16"	--	11.0	-		-11.0		317.4	TP	-723	+1355	829,483	581,172
TP	1536				11.1	270° -		-11.1			TP				
	766		342° 13' 53"	-1.5	+2.9	-		+2.9			BS	-723	+253		
	766				+3.0	270° -		+3.0	320.4		BS				
508	660		342° 10'	--	5.8	-		-5.8		314.6		+623	-219	829,383	581,206
509	330		343° -	--	7.9	-		-7.9		312.5		+313	-105	829,073	581,320
Bridge	197		343° 28' 03"	--	7.7	-		-7.7		312.7	IC	+187	-61	829,947	581,364
510	0				5.1	-		-5.1		315.3	TP	0	0	828,760	581,425
511	332		177° 25'	-1.5	6.7	87° -	+17.4	+10.7		331.1		-331	+24	828,429	581,449
512	662		179° 09' 27"	--	5.4	87° -	+34.6	+29.2			TP	-661	+27	828,099	581,452
512	662				5.3	273° -	+34.6	+29.3		349.7	TP				
	1979		0° 06' 17"	--	+13.3	90° 26'	+11.5	+24.8	374.7		BS	-1978	+48		
	1979				+13.6	269° 40'	+11.5	+25.1	+25.0		BS				

MACON County ↑
 Bridge - 828,970 X - 581,360
 EL. 314.0
 ACROSS STA. DOOLY County ↓

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3 A 85		B. Cotcamp		K. Greenfield		6834		Kud		20		38			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		MARSHALLVILLE S.W. 74		G.A.		PAGE DOOLEY								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	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									374.7						
513	1649		359° 50'	-1.5	4.3	90° 50'	-24.0	-28.3		346.4		+1648	-48	827,769	581,452
514	1319		359° 35'	--	7.3	91° 20'	-30.7	-38.0		336.7		+1318	-44	827,439	581,456
515	989		359° 20'	--	11.3	91° 40'	-28.8	-40.1		334.6		+988	-37	827,109	581,463
516	659		358° 30'	--	16.0	91° 40'	-19.2	-29.2		345.5		+658	-34	826,779	581,466
517	330		356° 05'	--	7.4	91° 40'	-9.6	-17.0		357.7		+329	-31	826,450	581,469
518	0				5.1	-		-5.1		369.6	T	0	0	826,121	581,500
519	330		159° 02'	-1.5	8.7	89° -	+5.8	-2.9		371.8		-305	+126	825,816	581,624
520	660		-	--	12.0	89° -	+11.5	-0.5		374.2		-610	+252	825,511	581,752
521	990		-	--	10.1	89° -	+17.3	+7.2		381.9		-915	+378	825,206	581,878
522	1320		159° 02'	-1.5	7.0	89° -	+23.0	+16.0		390.7		-1220	+504	824,901	582,004
523	1650		-	--	4.2	89° -	+28.8	+24.6		399.3		-1525	+631	824,596	582,131
524	1980		-	--	6.8	88° 50'	+40.3	+33.5		408.2		-1830	+757	824,291	582,257
525	2310		-	--	9.2	88° 50'	+47.0	+37.8		412.5		-2135	+883	823,986	582,383
TIP	2373		158° 47' 13"	--	11.5	88° 50'	+48.3	+36.8		411.5	TIP	-2189	+916	823,932	582,416
TIP	2373				11.6	271° 10'	+48.3	+36.7			TIP				
	2697		247° 39' 20"	-1.5	10.6	-		+10.6			BS	+1090	+2467		
	2697				10.7	270° -		+10.7	422.2		BS				
526	2447		247° 24'	--	4.0	B4	-12.2	-16.2		406.0		-999	-2234	824,023	582,649
527	2117		-	--	9.2	B4	-10.6	-19.8		402.4		-864	-1932	824,158	582,951
528	1787		-	--	12.1	B4	-8.9	-21.0		401.2		-730	-1631	824,292	583,252

y = 823,925 x - 582,405
TIP Inter. el. 412.0

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3.19.85		B. Cotamp		K. Greenfield		6834		KUAL		20		39			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Georgia		MARSHALLVILLE S.W. 2 1/2		G.A.		DOOLY								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.		Y
									422.2						
529	1457		247 32	-1.5	11.6	BH	-7.3	-18.9		403.3		-592	-1331	824.430	583,552
530	1127		-	--	9.0	BH	-5.6	-14.6		407.6		-458	-1030	824.564	583,853
531	797		-	--	11.9	-		-11.9		410.3		-324	-728	824.698	584,155
532	467		247 32	--	9.1	-		-9.1		413.1		-190	-427	824.832	584,456
533	137		-	--	6.2	-		-6.2		416.0		-56	-125	824.966	584,758
TP	0		-	--	5.1	-		-5.1		417.1	TP	0	0	825.022	584,883
534	193		75 35	-1.5	3.6	-		-3.6		418.6		+53	+186	825.075	585,069
535	523		76 47	--	6.0	-		-6.0		416.2		+133	+506	825.155	585,389
536	853		-	--	8.7	-		-8.7		413.5		+217	+825	825.239	585,708
537	1183		-	--	13.0	-		-13.0		409.2		+301	+1144	825.323	586,027
538	1513		76 47	-1.5	9.4	BH	-7.6	-17.0		405.2		+384	+1463	825.406	586,346
539	1843		-	--	5.0	BH	-9.2	-14.2		408.0		+468	+1783	825.490	586,666
540	2173		-	--	10.3	-		-10.3		411.9		+552	+2102	825.574	586,985
541	2503		-	--	7.3	-		-7.3		414.9		+636	+2421	825.658	587,304
TP	2748		76 59 23	--	6.8	-		-6.8		415.4	TP	+689	+2660	825.711	587,543
TP	2748		-	--	6.9	270-		-6.9			TP				
	2349		292 59 28	-1.5	14.3	-		+14.3	429.7		BS	-861	+2186		
	2349		-	--	14.2	270-		+14.2			BS				
542	2265		293 25	--	4.6	BH	-11.3	-15.9		413.8		+845	-2101	825.695	587,628
IF	2222		294 08 25	--	5.0	BH	-11.1	-16.1		413.6	IF	+855	-2051	825.705	587,678

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	3-19-85	INSTRUMENT MAN	B. Cotcamp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	KVA W	LINE NO.	20	PAGE	40	
AREA	GEORGIA	TOPO MAP	MARSHALLVILLE S.W. 1/2	STATE	G.A.	COUNTY	DOOLY	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.	
									429.7					
543	1954		296° 27'	-1.5°	5.0	96° 26'	-14.8	-19.9		409.9		+ 824	-1772	825.674 587.957
544	1633		298° 35'	--	10.0	90° 22'	-10.5	-20.5		409.2		+ 743	-1454	825.592 588.225
545	1304		300° 05'	--	9.8	90° 30'	-11.4	-21.2		408.5		+ 624	-1145	825.474 588.584
546	977		302° 15'	--	12.1	90° 30'	-8.5	-20.6		409.1		+ 500	-840	825.350 588.889
547	650		304° 20'	--	10.8	90° 30'	-5.7	-16.5		413.2		+ 352	-546	825.202 589.183
548	320		301° 25'	--	9.0	96° 30'	-2.8	-11.8		417.9		+ 160	-277	825.010 589.452
TP	48		275° 38' 48"	--	5.6	90° 30'	-0.4	-6.0		423.7		+ 3	-48	824.853 589.681
TP	0				5.1	-		-5.1		424.6	TP	0	0	824.850 589.729
550	330		92° 37'	-1.5°	5.7	89° -	+5.8	+0.1		429.9		-6	+330	824.844 590.059
TP	271		91° 11' 40"	--	4.8	89° -	+4.7	+0.1		429.8		+1	+271	824.851 590.000
551	660		92° 37'	--	8.8	89° 20'	+7.7	-1.1		428.6		-13	+660	824.837 590.389
552	990		-	--	11.1	89° 30'	+8.6	-2.5		427.2		-19	+990	824.831 590.719
553	1320		-	-1.5°	8.3	89° 30'	+11.5	+3.2		432.9		-26	+1320	824.824 591.049
554	1650		-	--	7.3	89° 30'	+14.4	+7.1		436.8		-32	+1650	824.818 591.379
555	1980		-	--	12.1	89° 30'	+17.3	+5.2		434.9		-39	+1980	824.811 591.709
556	2310		-	--	10.8	89° 30'	+20.2	+9.4		439.1		-45	+2310	824.805 592.039
557	2640		92° 36' 28"	--	8.2	89° 30'	+23.0	+14.8		444.5	TP	-51	+2639	824.799 592.368
557	2640				8.3	270° 30'	+23.0	+14.7			TP			
	2639		272° 16' 08"	-1.6°	+3.2	-		+3.2		447.7	BS	-31	+2639	
	2639				+3.1	270°		+3.1			BS			

Y-824.870 X-589.695
y-inter.

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	3-19-85	INSTRUMENT MAN	B. Cotcamp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	rwk	LINE NO.	20	PAGE	41	
AREA	GEORGIA	TOPO MAP	MARSHALLVILLE-7 1/2'	STATE	G.A.	COUNTY	DOOLY	TWP		RANGE		PPM	PARTY MANAGER	W. CASS, dy

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS A TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									447.7					
558	2310		272° 16'	-1.6	4.2	-		-4.2		443.5		+27	-2310	824,795 592,697
559	1980		-	--	6.4	-		-6.4		441.3		+23	-1980	824,791 593,027
560	1650		-	--	6.4	BH	-8.3	-14.7		433.0		+19	-1650	824,787 593,357
561	1320		272° 16'	--	10.2	90° 30'	-11.5	-21.7		426.0		+15	-1320	824,783 593,687
562	990		-	--	12.7	90° 30'	-8.6	-21.3		426.4		+12	-990	824,780 594,017
563	660		-	--	8.9	90° 30'	-5.8	-14.7		433.0		+8	-660	824,776 594,347
564	330		-	--	7.8	-		-7.8		439.9		+4	-330	824,772 594,677
565	0		-	--	5.1	-		-5.1		442.6	π	0	0	824,768 595,007
566	330		92° 19'	-1.6	12.3	-		-12.3		435.4		-4	+330	824,764 595,337
567	660		-	--	11.4	90° 30'	-5.8	-17.2		430.5		-8	+660	824,760 595,667
568	990		-	--	10.1	90° 30'	-8.6	-18.7		429.0		-12	+990	824,756 595,997
569	1292		92° 09' 25"	--	5.7	90° 30'	-11.3	-17.0		430.7	π	-13	+1292	824,755 596,299
569	1320		92° 19'	-1.6	5.3	90° 30'	-11.5	-16.8		430.9		-17	+1320	824,751 596,327
570	1650		-	--	11.2	-		-11.2		436.5		-21	+1650	824,747 596,657
571	1980		-	--	9.8	-		-9.8		437.9		-25	+1980	824,743 596,987
572	2310		-	--	5.2	-		-5.2		442.5		-29	+2310	824,739 597,317
573	2640		92° 18' 48"	--	5.9	-		-5.9			TP	-33	+2640	824,735 597,647
573	2440			--	5.8	270°		-5.8		441.9	TP			
	1650		272° 17' 13"	-1.6	+1.4	-		+1.4		443.3	BS	-20	+1650	
	1650			--	+1.3	270°		+1.3			BS			

Handwritten note: 824,775 x 596,300
4-way Inter. E. 1330

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	3.19.85	INSTRUMENT MAN	B. Cotcamp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	KWV	LINE NO.	20	PAGE	42
AREA	GEORGIA	TOPO MAP	MARSHALLVILLE S.W. 7 1/2'	STATE	G.A.	COUNTY	DOOLY	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.	
									443.3					
574	1320		272 17'	-1.6	9.0	TH	+ 6.6	-2.4		440.9		+16	-1320	824,731 597,977
575	990		- -	--	12.4	BH	- 5.0	-17.4		425.9		+ 12	-990	824,727 598,307
576	660		- -	--	8.3	91° -	- 11.5	-19.8		423.5		+ 8	-660	824,723 598,637
577	330		- -	--	6.7	91° -	- 5.8	-12.5		430.8		+ 4	-330	824,719 598,967
578	0				5.1	-		-5.1		438.2	TP	0	0	824,715 599,297
579	330		92° -	-1.6	10.3	91 30'	-8.6	-18.9		424.4		-2	+330	824,713 599,627
580	660		- -	--	12.0	92° -	-23.0	-35.0		408.3		-5	+660	824,710 599,957
IF	978		91° 32' 18"	--	8.7	92° -	-34.1	-42.8		400.5	IF	+1	+977	824,716 600,274 IF 4-824,720 x-600,265 F-inter.
581	990		92° -	--	8.8	92° -	-34.5	-43.3		400.0		-7	+990	824,708 600,287
582	1320		91° 55'	-1.6	9.1	91° 40'	-38.4	-47.5		395.8		-7	+1320	824,708 600,617
583	1650		- -	--	10.3	91° 20'	-38.4	-48.7		394.6		-9	+1650	824,706 600,947
584	1980		92° 10'	--	9.7	91° 04'	-36.8	-46.5		396.8		-20	+1980	824,695 601,277
585	2310		- -	--	9.3	90° 50'	-33.6	-42.9		400.4		-23	+2310	824,692 601,607
586	2640		- -	--	9.0	90° 40'	-30.7	-39.7		403.6		-26	+2640	824,689 601,937
IF	2960		92° 04' 22"	-1.6	10.1	90° 30'	-25.8	-35.9		407.4	IF	-24	+2960	824,691 602,257 IF 4-824,705 x-602,240 F-way inter.
587	2970		92° 02' 57"	--	10.0	90° 30'	-25.9	-35.9			TP	-23	+2970	824,692 602,267
587	2970				9.7	269° 30'	-25.9	-35.6	35.73	407.6	TP			
	2309		272° 04' 52"	--	+8.5	89° 16'	-33.6	-25.1	382.4		BS	-19	+2309	
	2309				+8.2	270° 50'	-33.6	-25.4	25.23		BS			

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3-19-85		B. Cotcamp		K. Greenfield		6834		KUGA		20		43			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Georgia		MARSHALLVILLE S.W-74		G.A.		DOOLY								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
									382.4						
588	1980		271° 38'	-1.6	7.7	89° 20'	+23.0	+15.3		397.7		+1	-1980	824.674	602.596
589	1650		271° 30'	--	8.8	89° 20'	+19.2	+10.4		392.8		-3	-1650	824.670	602.926
590	1320		-	--	9.3	89° 20'	+15.4	+6.1		388.5		-2	-1320	824.671	603.256
591	990		-	--	13.0	89° 20'	+11.5	-1.5		380.9		-2	-990	824.671	603.586
592	660		271° 30'	--	10.0	-		-10.0		372.4		-1	-660	824.672	603.916
593	330		-	--	12.0	BM	-1.7	-13.7		369.7		-1	-330	824.672	604.246
594	0				5.1	-		-5.1		377.3	X	0	0	824.673	604.576
75	216		271° 58' 40"	-1.6	12.7	BM	-1.1	-13.8		368.6		+1	-216	824.674	604.360
595	330		90° 15'	--	6.3	88° 10'	+10.6	+4.3		386.7		+8	+330	824.681	604.906
596	659		87° 03'	--	8.4	88° 40'	+15.3	+6.9		389.3		+52	+657	824.725	605.233
TP	925		87° 45' 41"	--	6.7	88° 40'	+21.5	+14.8		397.2	TP	+62	+923	824.735	605.499
TP	925				9.4	88° 30'	+24.2	+14.8			TP				
	1051		287° 43' 06"	-1.6	+12.0	91° 10'	+21.4	+33.4	430.6		BS	-292	+1009		
	1051				+11.9	268° 50'	+21.4	+33.3			BS				
597	988		287° 25'	--	10.5	91° 10'	-20.1	-30.6		400.0		+269	-951	824.712	605.557
598	660		285° 20'	--	9.8	90° 30'	-5.8	-15.6		415.0		+157	-641	824.600	605.867
599	330		-	--	10.6	90° 30'	-2.9	-13.5		417.1		+78	-321	824.521	606.187
600	0				5.1	-		-5.1		425.5	X	0	0	824.443	606.508
601	330		103° 25'	-1.6	4.9	88° 30'	+8.6	+3.7		434.0		-68	+323	824.375	606.931
602	660		-	--	7.0	88° 30'	+17.3	+10.3		440.9		-135	+646	824.308	607.154

5-824.670 X=604.350
JE BR. 892

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	3-19-85	INSTRUMENT MAN	B. Cotcamp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	KVA	LINE NO.	20	PAGE	44
AREA	Georgia	TOPO MAP	Marshallville Sw. - 7 1/2	STATE	G.A.	COUNTY	Dooly	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.	
									430.6					
603	990		103° 25'	-1.6	8.6	88° 30'	+25.9	+17.3		447.9		-203	+969	824,240 607,477
604	1318		105° 20'	--	10.3	88° 30'	+34.5	+24.2		454.8		-313	+1280	824,130 607,788
TP	1420		104° 55' 47"	--	12.1	88° 30'	+37.2	+25.1			TP	-327	+1381	824,116 607,889 TP ³ -824,110 x-607,890
TP	1420			--	12.0	271° 30'	+37.2	+25.2		455.8	TP			
	2138		218° 15' 46"	--	+11.7	TH	-10.7	+1.0		456.7	BS	+1715	+1277	
	2138			--	+11.4	TH 276°	-10.7	+0.7		450.3	BS	+	-2	
605	1978		218° -	-1.6	11.8	TH	+9.9	-1.9		454.8		-1592	-1174	824,240 607,990
606	1650		218° 55'	--	5.0	-		-5.0		451.7		-1312	-1000	824,520 608,164
607	1320		-	--	12.4	-		-12.4		444.3		-1050	-800	824,782 608,364
608	990		218° 25'	--	11.9	BH	-5.0	-16.9		439.8		-793	-593	825,039 608,571
609	660		218° -	--	11.7	BH	-3.3	-15.0		441.7		-531	-392	825,301 608,772
610	330		216° 35'	--	6.0	TH	+1.7	-4.3		452.4		-276	-189	825,562 608,975
7/8	319		217° 10' 06"	--	4.0	-		-4.0		452.7	7/8	-259	-186	825,573 608,978 7/8 ^{J-8} 4 WA ₂ INT ₂ E. 452 x-6
611	0			--	5.1	-		-5.1		451.6	T	0	0	825,832 609,164
612	330		36° 15'	-1.6	7.8	-		-7.8		448.9		+271	+188	826,163 609,352
613	654		41° -	--	8.1	-		-8.1		448.6		+505	+415	826,337 609,579
614	938		53° 15'	--	7.3	-		-7.3		449.4		+582	+736	826,444 609,900
615	1249		59° 10'	--	12.8	-		-12.8		443.9		+670	+1054	826,502 610,218
616	1569		62° 24' 55"	--	10.4	BH	-7.8	-18.2			TP	+765	+1370	826,598 610,532
616	1569			--	10.3	BH 276°	-7.8	-18.1		438.6	TP	+	-2	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	3-22-85	INSTRUMENT MAN	B. Cotcamp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	B. Cole	LINE NO.	20	PAGE	45	
AREA	GEORGIA	TOPO MAP	MENDERSON - 7 1/2'	STATE	G.A.	COUNTY	DOOLY	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.	
										438.6				
5044			238° 53' 26"	-1.6	6.5	90° 08'	+11.7	+18.2	457.0		BS	+2726	+4244	
5044					+9.8	269° 54'	+8.8	+18.6	+18.43		BS	+1	-2	
617	4727		237° 48'	-	11.0	90° 08'	-11.0	-22.0		435.0		-2630	-3928	826,695 610,846
618	4413		236° 32'	-	9.2	90° 12'	-15.4	-24.6		4324		-2535	-3612	826,790 611,162
619	4090		235° 43'	-	8.2	90° 16'	-19.0	-27.2		429.8		-2397	-3314	826,928 611,460
620	3763		236° 18'	-	9.7	90° 16'	-17.5	-27.2		429.8		-2174	-3071	827,151 611,703
621	3437		237° 15'	-1.6	6.8	90° 16'	-16.0	-22.8		434.2		-1940	-2838	827,385 611,936
622	3117		237° 15'	-	10.4	90° 10'	-9.1	-19.5		437.5		-1759	-2573	827,566 612,201
623	2856		233° 20'	-	9.1	90° 16'	-13.3	-22.4		434.6		-1769	-2242	827,556 612,532
624	2610		228° 44'	-	8.9	90° 16'	-12.1	-21.0		436.0		-1776	-1913	827,549 612,861
625	2387		223° 15'	-	9.3	BH	-11.9	-21.2		435.8		-1784	-1586	827,541 613,188
626	2191		216° 31'	-1.6	10.0	BH	-11.0	-21.0		436.0		-1797	-1254	827,528 613,520
627	2029		208° 40'	-	11.0	BH	-10.1	-21.0		436.0		-1807	-923	827,518 613,851
628	1912		199° 42'	-	9.2	BH	-9.6	-18.8		438.2		-1817	-594	827,508 614,180
629	1850		189° 50'	-	11.7	-	-	-11.7		445.3		-1831	-265	827,494 614,509
630	1545		188° 43'	-	9.6	-	-	-9.6		447.4		-1533	-191	827,792 614,583
631	1215		-	-1.6	7.1	-	-	-7.1		449.9		-1206	-151	828,119 614,623
632	885		-	-	5.9	-	-	-5.9		451.1		-878	-110	828,447 614,664
633	555		-	-	5.6	-	-	-5.6		451.4		-551	-69	828,774 614,705
634	226		186° 50'	-	6.0	-	-	-6.0		451.0		-225	-21	828,100 614,753

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3.22.85		B. Cotcamp		K. Greenfield		6834		B.C.K.		20		46			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		HENDERSON - 7 1/2'		G.A.		Dooly								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.		Y
									457.0						
π	0				5.1	-		-5.1		451.9	π	0	0	829,325	614,774
635	110		29° -	-1.6°	5.3	-		-5.3		451.7		+98	+51	829,423	614,825
636	438		20° 02'	-	7.2	-		-7.2		449.8		+416	+139	829,741	614,913
637	768		20° 15'	-	11.3	-		-11.3		445.7		+728	+246	830,053	615,020
638	1098		20° 50'	-	8.3	BM	-5.5	-13.8		443.2		+1037	+362	830,362	615,136
639	1428		21° -	-1.6°	12.8	-		-12.8		444.2		+1347	+474	830,672	615,248
640	1758		21° 10'	-	9.3	-		-9.3		447.7		+1656	+589	830,981	615,363
641	2088		21° 15'	-	8.1	-		-8.1		449.9		+1966	+702	831,291	615,476
642	2418		21° 30'	-	6.1	-		-6.1		450.9		+2274	+823	831,599	615,597
643	2748		- -	-	8.9	89° 50'	+9.0	-0.9		456.1		+2584	+935	831,909	615,709
644	3078		- -	-	4.9	89° 50'	+9.0	+4.1		461.1		+2894	+1048	832,309	615,822
645	3408		21° 30'	-	7.7	89° 40'	+19.8	+12.1		469.1		+3205	+1160	832,530	615,934
646	3733		20° 30' 09"	-	7.6	89° 40'	+21.7	+14.1		471.0	TP	+3532	+1209	832,858	615,981
646	3733				10.1	270° 22'	+23.9	+13.8			TP	+	-2		
	1761		262° 30' 06"	-1.6°	11.6	89° -	-30.7	-19.1			BS	+278	+1739		
	1761				11.7	271° -	-30.7	-19.0		452.0	BS	+	-2		
π	1736		271° 49' 34"	-	5.7	89° 20'	+20.2	+14.5		466.5	π	+7	-1730	833,144	615,982
647	1650		271° 28'	-	6.6	89° 20'	+19.2	+12.6		464.6		-4	-1650	833,133	616,068
648	1320		- -	-	7.5	89° 20'	+15.4	+7.9		459.9		-3	-1320	833,134	616,398
649	996		- -	-	8.0	89° 20'	+11.5	+3.5		455.5		-2	-990	833,135	616,728

5-833165 X-615,975
 If 4 W. Cassidy
 Houston/Dooly
 County Line R/W

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	3-22-85	INSTRUMENT MAN	B. Cotcamp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	B.C.	LINE NO.	20	PAGE	47	
AREA	GEORGIA	TOPO MAP	HENDERSON - 7 1/2'	STATE	G.A.	COUNTY	Houston / Dooley	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	
									452.0							
650	660		271° 28'	-1.6°	6.7	89° 20'	+7.7	+1.0		453.0		- 2	-660	833,135	617,058	
651	330		-	-	4.8	89° 20'	+3.8	-1.0		451.0		- 1	-330	833,136	617,388	
652	0				5.1	-		-5.1		446.9	T	0	0	833,137	617,718	
653	330		91° 24'	-1.6	7.4	-		-7.4		444.6		+ 1	+330	833,138	618,048	
654	660		-	-	10.7	-		-10.7		441.3		+ 2	+660	833,139	618,378	
655	990		-	-	12.2	-		-12.2		439.8		+ 3	+990	833,140	618,708	
656	1320		-	-	12.4	-		-12.4		439.6		+ 5	+1320	833,142	619,038	
657	1650		91° 24'	-1.6	12.3	-		-12.3		439.7		+ 6	+1650	833,143	619,368	
658	1980		-	-	13.0	-		-13.0		439.0		+ 7	+1980	833,144	619,698	
659	2310		-	-	4.6	B4	-13.2	-16.2		435.8		+ 8	+2310	833,145	620,028	
660	2639		91° 18' 27"	-	6.6	B4	-13.2	-19.8		432.2	TP	+13	+2639	833,151	620,356	
660	2639				6.7	B4 210'	-13.2	-19.9			TP	"	-			
	3301		271° 28' 34"	-1.6	10.1	89° 54'	-5.8	+4.3	436.6		BS	+7	+3301			
	3301				+14.1	26° 10'	-9.6	+4.5	+4.43		BS	"	-			
661	2970		271° 29'	-	8.8	-		-8.8		427.8		- 6	-2970	833,153	620,686	
If	3084		271° 41' 40"	-	7.4	-		-7.4		429.2	If	+5	-3084	833,154	620,572	J-833,170 x-619,590 T-Inter.
662	2640		271° 29'	-	10.8	-		-10.8		425.8		- 5	-2640	833,154	621,016	
663	2310		-	-	11.9	-		-11.9		424.7		- 5	-2310	833,154	621,346	
664	1980		-	-	12.1	-		-12.1		424.5		- 4	-1980	833,155	621,676	
665	1650		-	-	12.1	-		-12.1		424.5		- 3	-1650	833,156	622,006	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	3-22-85	INSTRUMENT MAN	B. Cotcamp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	BCL	LINE NO.	20	PAGE	48
AREA	GEORGIA	TOPO MAP	Menderson-7 1/2'	STATE	G.A.	COUNTY	Dooly-Houston	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.	
									436.6					
666	1320		271° 29'	-1.6	6.8	BH	-6.6	-13.4		423.2		-3	-1320	833,156 622,336
#1	1311		271° 54'	--	13.1	-		-13.1		423.5	#1	+7	-1311	833,166 622,345 #1 - Inter. El. 421.0
667	990		271° 29'	--	12.9	-		-12.9		423.7		-2	-990	833,157 622,666
668	660		" "	--	11.4	-		-11.4		425.2		-1	-660	833,158 622,996
669	330		" "	--	8.1	-		-8.1		428.5		-1	-330	833,159 623,326
670	0				5.1	-		-5.1		431.5	A	0	0	833,159 623,656
671	330		91° 27'	-1.6	4.3	TH	+1.7	-2.6		434.0		+1	+330	833,160 623,986
#	600		90° 19' 50"	--	1.1	-		-1.1		435.5	#	+13	+600	833,172 624,256 # - Inter. El. 438.0
672	660		91° 27'	--	5.1	TH	+3.3	-1.8		434.8		+2	+660	833,161 624,316
673	990		" "	--	4.9	-		-4.9		431.7		+3	+990	833,162 624,646
674	1320		" "	-1.6	9.8	-		-9.8		426.9		+3	+1320	833,162 624,976
675	1650		" "	--	6.5	-		-6.5		430.1		+4	+1650	833,163 625,306
676	1980		" "	--	9.0	89° 30'	+17.3	+8.3		444.9		+5	+1980	833,164 625,636
677	2310		" "	--	3.0	89° 30'	+20.2	+17.2		453.8		+6	+2310	833,165 625,966
678	2640		91° 20' 37"	--	8.3	89° 30'	+23.0	+14.7		451.3	TP	+12	+2640	833,172 626,295
678	2640		" "	--	8.4	270° 30'	+23.0	+14.6			TP	"	-1	
	3299		271° 45' 19"	-1.6	2.9	TH	-16.5	-13.6			BS	-9	+3299	
	3299		" "		+3.0	TH 270°	-16.5	-13.5	437.8		BS	"	-1	
679	2970		271° 46'	--	7.8	TH	+14.9	+7.1		444.9		+9	-2970	833,173 626,623
680	2640		" "	--	6.7	TH	+13.2	+6.5		444.3		+8	-2640	833,172 626,953

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	3.22.85	INSTRUMENT MAN	B. Cotcamp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	B. Cle	LINE NO.	20	PAGE	49
AREA	GEORGIA	TOPO MAP	HENDERSON / UNADILLA	STATE	G.A.	COUNTY	Houston / Dooly	TWP		RANGE		PPM	PARTY MANAGER

STATION NO.	SLOPE 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	
									437.9							
681	2310		271° 46'	-1.6	11.0	TH	+11.6	+0.6		438.4		+7	-2310	833,171	627,283	
682	1980		271° 35'	--	7.7	-		-7.7		430.1		-1	-1980	833,163	627,613	
683	1650		271° 25'	--	12.6	-		-12.6		425.2		-5	-1650	833,159	627,943	
684	1436		271° 52' 34"	--	13.7	-		-13.7		424.1	4/1	+7	-1436	833,171	628,157	833,180 x -630,105 4 way inte. E1.4250
684	1320		271° 41'	--	10.3	BM	-6.6	-16.9		420.9		+2	-1320	833,166	628,273	
685	990		-	-1.6	9.1	BM	-5.0	-14.1		423.7		+1	-990	833,165	628,603	HENDERSON - 7 1/2'
686	660		-	--	9.3	-		-9.3		429.5		+1	-660	833,165	628,933	UNADILLA - 7 1/2'
687	330		-	--	4.9	-		-4.9		432.9		±0	-330	833,164	629,263	
688	0				5.1	-		-5.1		432.7	X	0	0	833,164	629,593	
689	330		91° 53'	-1.6	5.7	TH	+1.7	-4.0		433.8		-2	+330	833,162	629,923	
690	559		91° 05' 12"	--	3.7	-		-3.7		434.1	4/1	+5	+559	833,169	630,152	833,175 x -630,125 T-Inter. E1.4340
690	660		91° 53'	--	4.8	-		-4.8		433.0		-3	+660	833,161	630,253	
691	990		-	--	7.8	TH	+5.0	-2.8		435.0		-5	+990	833,159	630,583	
692	1320		-	--	7.4	TH	+6.6	-0.8		437.0		-7	+1320	833,157	630,913	
693	1650		-	--	8.0	TH	+8.3	+0.3		438.1		-8	+1650	833,156	631,243	
694	1980		-	-1.6	12.1	TH	+9.9	-2.2		435.6		-10	+1980	833,154	631,573	
695	2310		-	--	11.8	89' 56"	+2.7	-9.1		429.7		-11	+2310	833,153	631,903	
696	2640		91° 53'	-	16.8	89' 56"	+3.1	-13.7		424.1		-13	+2640	833,151	632,233	
697	2970		-	--	16.1	89' 56"	+3.4	-12.7		425.1		-15	+2970	833,149	632,563	* note - 285 offset north Sta. 697 Sta. 698

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
3.22.85		B. Cotcamp		K. Greenfield		6834		B. Mc		20		50				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
GEORGIA		UNADILLA-7 1/2'		G.A.		Dooly / Houston								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	X
									437.8							
77	3130		91° 40' 55"	-1.4	11.8	89° 56'	+3.6	-8.2			TP	-15	+3130	833,150	632,722	5-833,190 x -632,700 T-T-Inter.
77	3130				11.7	270° 04'	+3.6	-8.1		429.7	TP	"	-1			LIMP TIE
	2509		276° 10' 28"	--+	8.1	TH	-12.5	-4.4			BS	-209	+2500			
	2509			+	8.2	TH 270°	-12.5	-4.3	425.4		BS	"	-1			
77	2498		283° 26' 50"	-1.4	9.9	89° 34'	+18.9	+9.0		434.4	TP	+521	-2443	833,463	632,778	2-833,475 x -632,770 T-T-Inter. EL. 431.0
698	2307		282° 50'	--	7.2	TH	+11.5	+4.3		429.7		+457	-2261	833,399	632,960	Houston County 1
699	1979		282° -	--	13.3	TH	+9.9	-3.4		422.0		+364	-1945	833,306	633,276	
706	1650		281° 20'	--	7.3	-		-7.3		418.1		+285	-1625	833,227	633,596	
701	1320		281° 40'	-1.4	9.0	-		-9.0		416.4		+235	-1299	833,177	633,922	Dooly County 1
702	990		282° 15'	--	5.7	-		-5.7		419.7		+186	-972	833,128	634,249	
703	660		283° 10'	--	7.2	TH	+3.3	-3.9		421.5		+135	-646	833,077	634,575	
77	460		284° 16' 10"	--	4.5	-		-4.5		420.9	77	+102	-448	833,044	634,773	4-833,045 x -634,765 T-T-Inter. EL. 421.0
704	330		282° 45'	--	5.5	-		-5.5		419.9		+65	-324	833,007	634,899	
705	0				5.1	-		-5.1		420.3	X	0	0	832,942	635,221	
706	330		91° 39'	-1.4	8.0	-		-8.0		417.4		-1	+330	832,941	635,551	
707	660		-	--	10.8	-		-10.8		414.6		-3	+660	832,939	635,881	
708	990		-	--	8.6	BH	-5.0	-13.6		411.8		-4	+990	832,938	636,211	
709	1320		-	--	8.8	BH	-6.6	-15.4		410.0		-6	+1320	832,936	636,541	
710	1650		-	--	8.2	BH	-8.3	-16.5		409.9		-7	+1650	832,935	636,871	
711	1980		-	-	9.4	BH	-9.9	-19.3		406.1		-9	+1980	832,933	637,201	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3-22-85		B. Cotcamp		K. Greenfield		6834		B. Clark		20		51			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		UNADILLA-7 1/2'		G.A.		Houston/Dooly								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
									425.4						
712	2310		91° 39'	-1.4	8.4	BH	-11.6	-20.0		405.4		-10	+2310	832,932	637,531
713	2640		" "	"	9.8	BH	-13.2	-23.0		402.4		-12	+2640	832,930	637,861
714	2970		" "	"	11.2	BH	-14.9	-26.1		399.3		-13	+2970	832,929	638,191
TP	3169		91° 46' 47"	"	12.3	BH	-15.8	-28.1			TP	-21	+3169	832,922	638,389
TP	3169		" "	"	12.6	BH ₂₇₀	-15.8	-28.4	-28.3	397.2	TP	"	-1		
	784		330° 08' 16"	-1.4	+5.8	89°	-13.7	-7.9	389.3		BS	-670	+407		
	784		" "	"	+3.5	89° 10'	-11.4	-7.9			BS	"	-1		
715	648		331° 10'	"	6.3	89° 10'	+9.4	+3.1		392.4		+560	-326	832,913	638,469
716	319		329° 12'	"	8.9	89° 10'	+4.6	-4.3		385.0		+270	-170	832,523	638,625
R.R.	83		319° 03' 10"	"	4.8	90° 30'	-0.7	-5.5		383.8		+61	-56	832,314	638,739
	0		" "	"	5.1	-		-5.1		384.2	T	0	0	832,253	638,795
718	329		115° 10'	-1.4	7.2	89° 10'	+4.8	-2.4		386.9		-133	+301	832,120	639,096
719	659		114° 15'	"	6.2	89° 10'	+9.6	+3.4		392.7		-256	+607	831,997	639,402
720	988		113°	"	7.0	89° 30'	+8.6	+1.6		390.9		-364	+919	831,989	639,714
721	1317		112° 21' 16"	"	12.8	89° 30'	+11.5	-1.3		388.0	TP	-471	+1230	831,783	640,024
721	1317		" "	"	12.9	270° 30'	+11.5	-1.4			TP	"	-1		
	1528		288° 14' 42"	-1.4	+12.0	BH	+7.6	+19.6	407.6		BS	-443	+1462		
	1528		" "	"	+12.0	BH ₂₇₀	+7.6	+19.6			BS	"	-1		
722	1199		287° 40'	"	12.3	BH	-6.0	-18.3		389.3		+336	-1151	831,677	640,334
723	869		287° 10'	"	9.7	BH	-4.3	-14.0		393.6		+236	-836	831,577	640,649

y = 832,350 x = 638,710
R.R. crossing

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3.2 - 85		B. Coteamp		K. Greenfield/D. Clark		6834		BCL		20		52			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		UNADILLA-7'2"		G.A.		Houston								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	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									407.6						
724	539		286° 16'	-1.4°	10.8	-	-10.8		396.8			+137	-521	831,478	640,964
725	430		285° 27' 38"	--	9.3	-	-9.3		398.3	725		+104	-417	831,445	641,068
725	210		284° 28'	--	7.2	-	-7.2		400.4			+47	-205	831,388	641,280
726	120		100° 08'	-1.4°	5.3	-	-5.3		402.5	726		0	0	831,341	641,485
727	450		--	--	10.4	-	-10.4		402.3			-18	+119	831,323	641,604
728	780		--	--	9.3	BH	-3.9	-13.2	397.2			-68	+445	831,273	641,930
729	1110		--	--	7.8	BH	-5.6	-13.4	394.4			-118	+771	831,223	642,256
730	1440		--	--	10.1	-	-10.1		394.2			-169	+1097	831,172	642,582
731	1770		--	--	12.4	TM	+8.9	-3.5	397.5			-219	+1423	831,122	642,908
732	2101		100° 01' 41"	-1.4°	4.7	-	-4.7		404.1			-269	+1749	831,072	643,234
732	2101		--	--	4.8	270°	-4.8		402.9	TP		-315	+2077	831,027	643,561
	3629		282° 00' 07"	--	4.1	89° 34'	-27.4	-23.3			BS	-668	+3567		
	3629		--	--	4.2	270° 26'	-27.4	-23.2	399.7		BS	+	-		
733	3299		282° 10'	-1.4°	12.0	89° 30'	+28.8	-16.8	362.9			+616	-3241	830,976	643,886
734	3112		282° 26' 46"	--	3.6	TM	+15.6	+12.0	391.7	734		+596	-3054	830,956	644,073
734	2969		282° 15'	--	9.8	TM	+14.8	+5.0	384.7			+559	-2916	830,919	644,211
735	2639		--	--	11.2	89° 50'	+7.7	-3.5	376.2			+497	-2592	830,857	644,535
736	2309		282° 08'	--	11.2	89° 56'	+2.7	-8.5	371.2			+430	-2269	830,790	644,858
737	1979		--	--	9.8	89° 56'	+2.3	-7.5	372.2			+369	-1944	830,729	645,183

725 - 831,465 X - 641,020
725 - Inter. E.L. 396.0

734 - 830,985 X - 644,040
734 - Inter. E.L. 392.0

Dooly County

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3.2.85		B. Cotcamp		K. Greenfield / D. Crowe		6834		B. Clark		20		53			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		WADSWORTH-7 1/2'		G.A.		DOOLY								W. Cassel	
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
									379.7						
738	1649		282° 03'	-1.4°	8.0	TH	+8.2	+0.2		379.9		+305	-1621	830,665	645,506
739	1354		282° 14' 24"	--	5.5	-		-5.5		374.2	TP	+255	-1330	830,615	645,797
740	1319		281° 44'	--	5.8	-		-5.8		373.9		+237	-1298	830,597	645,829
741	989		281° 34'	--	5.4	-		-5.4		374.3		+175	-973	830,535	646,154
742	659		280° 50'	-1.4°	5.0	-		-5.0		374.7		+108	-650	830,468	646,477
743	330		280° -	--	5.6	TH	+1.7	-3.9		375.8		+49	-326	830,409	646,801
744	0			--	5.1	-		-5.1		374.6	TP	0	0	830,360	647,127
745	330		92° 44'	--	5.8	-		-5.8		373.9		-8	+330	830,352	647,457
746	660		-	--	9.8	-		-9.8		369.9		-15	+660	830,345	647,787
747	990		-	-1.4°	8.6	BH	-5.0	-73.6		366.1		-23	+990	830,337	648,117
748	1320		-	--	10.2	BH	-6.6	-16.8		362.9		-31	+1320	830,329	648,447
749	1650		92° 44'	--	12.4	BH	-8.3	-20.7		359.0		-38	+1650	830,322	648,777
750	1980		-	-1.4°	13.0	90° 20'	-11.5	-24.5		355.2		-46	+1979	830,314	649,106
751	2310		-	--	8.3	90° 28'	-18.8	-27.1		352.6		-54	+2309	830,306	649,436
752	2640		-	--	12.1	BH	-13.2	-25.3		354.4		-61	+2639	830,299	649,766
753	2970		-	--	7.3	BH	-14.9	-22.2		357.5		-69	+2969	830,291	650,096
754	3300		-	--	8.8	90° 10'	-9.6	-18.4		361.3		-77	+3299	830,283	650,426
754	3630		92° 41' 48"	--	5.3	90° 10'	-10.6	-15.9			TP	-82	+3629	830,279	650,755
754	3630				5.2	269° 50'	-10.6	-15.8		363.9	TP	+	-		

4.5 - 830,610 X - 645,800
TP 4 way into EL 374.0

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
3-2-85		B. Cotcamp		K. Greenfield/D. Clark		6834		B. Clark		20		54				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
Georgia		UNADILLA-7 1/2'		G.A.		DOOLY								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	X
										363.9						
	2786		267° 28' 03"	-1.4	13.1	89° 24'	-29.2	-16.1	347.8		BS	+191	+2779			
	2786				+13.0	270° 36'	-29.2	-16.2		BS						
755	2456		267° 12'	--	6.0	89° 30'	+21.4	+15.4		363.2		-180	-2449	830,291	651,085	
756	2126		- -	--	4.9	89° 30'	+18.6	+13.7		361.5		-156	-2120	830,315	651,414	
757	1796		- -	--	9.3	89° 26'	+20.9	+11.6		359.4		-132	-1791	830,339	651,743	
758	1466		267° 12'	--	8.3	89° 20'	+17.1	+8.8		356.6		-107	-1462	830,364	652,072	
759	1136		- -	-1.4	7.1	89° 20'	+13.2	+6.1		353.9		-83	-1133	830,388	652,401	
760	817		267° 50' 22"	--	5.4	89° 20'	+9.5	+4.1		351.9	71	-51	-815	830,420	652,719	7-830,415 X-652,725 71-inter. EL. 350.0
761	806		267° 12'	--	5.7	89° 20'	+9.4	+3.7		351.5		-59	-804	830,412	652,730	
762	476		- -	--	5.8	89° 10'	+6.9	+1.1		348.9		-35	-475	830,436	653,059	
762	146		270° 30'	--	4.3	89° 10'	+2.1	-2.2		345.6		-2	-146	830,469	653,388	
π	0				5.1	-		-5.1		342.7	π	0	0	830,471	653,534	
763	190		64° 55'	-1.4	7.6	89° 40'	+1.1	-6.5		341.3		+85	+170	830,556	653,704	
764	520		- -	--	10.9	-		-10.9		336.9		+232	+465	830,703	653,999	
765	850		- -	--	11.0	-		-11.0		336.8		+379	+761	830,850	654,295	
766	1180		- -	--	5.2	-		-5.2		342.6		+526	+1056	830,997	654,590	
767	1510		- -	--	6.0	TH	+7.6	+1.6		349.4		+673	+1352	831,144	654,886	
768	1840		64° 10'	--	5.0	TH	+9.2	+4.2		352.0	π	+842	+1636	831,313	655,170	
768						TH					π					

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3.2.85		B. Cotcamp		K. Greenfield/D. Cewig		6834		B. Cewig		20		55			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Georgia		UNADILLA-7 1/2'		GA.		DOOLY								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 X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									347.8						
TP	1998		63° 14' 45"	-1.4	8.1	TH	+10.0	+1.9			TP	+943	+1762	831,415	655,296
TP	1998				8.0	TH 270	+10.0	+2.0		349.8	TP	TI			
	1262		234° 55' 38"	-1.6	12.0	BH	+6.3	+18.3		368.1	BS	+754	+1012		
	1262				+11.9	BH 270	+6.3	+18.2			BS				
TI	1137		235° 40' 54"	--	10.3	90° 30'	-9.9	-20.2		347.9	TI	-667	-921	831,502	655,387
769	1093		235° -	--	11.4	90° 30'	-9.5	-20.9		347.2		-652	-877	831,517	655,431
770	762		236° 25'	--	13.0	90° 48'	-10.6	-23.6		344.5		-439	-623	831,730	655,685
771	436		239° 50'	--	12.7	90° 40'	-5.1	-17.9		350.3		-230	-371	831,939	655,937
772	110		245° 10'	--	5.8	-	-	-5.8		362.3		-49	-99	832,120	656,209
X	0				5.1	-	-	-5.1		363.0	X	0	0	832,169	656,308
773	224		67° 38'	-1.6	7.5	-	-	-7.5		360.6		+91	+205	832,260	656,513
774	554		-	--	12.3	BH	-2.8	-15.1		353.0		+225	+506	832,394	656,814
775	884		-	--	12.1	90° 40'	-10.3	-22.4		345.7		+359	+808	832,528	657,116
776	1214		-	--	12.7	90° 40'	-14.1	-26.8		341.3		+493	+1109	832,662	657,417
777	1544		-	--	6.7	90° 40'	-18.0	-24.7		343.4		+627	+1411	832,796	657,719
778	1874		67° 38'	--	12.7	-	-	-12.7		355.4		+761	+1712	832,930	658,020
779	2203		67° 22' 37"	--	9.8	-	-	-9.8			TP	+904	+2009	833,073	658,317
779	2203				9.5	270	-	-9.5	-9.5	358.5	TP				Dooly county ↑
	990		240° 38' 25"	-1.6	3.5	-	-	+3.5		362.0	BS	+509	+849		
	990				+8.5	TH	-5.0	+3.5			BS				

Y=831,505 X=655,400
inter. EL. 347.0

distance gained on driveway

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
3.2.85		B. Cotnam		K. Greenfield/D. Rowe		6834		K. Rowe		20		56				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
GEORGIA		UNADILLA-7 1/2'		G.A.		Houston								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.		Y	X
									362.0							
780	660		240 30	-1.6	6.6	-		-6.6		355.4		-341	-565	833,241	658,601	Houston County
781	330		- -	--	6.7	-		-6.7		355.3		-170	-283	833,412	658,883	↓
782	0				5.1	-		-5.1		356.9	TP	0	0	833,582	659,166	
783	330		69° 05'	--	10.3	-		-10.3		351.7		+126	+305	833,708	659,471	
784	660		- -	--	12.6	BH	-3.3	-15.9		346.1		+253	+610	833,835	659,776	
785	987		67° 20'	--	7.7	90° 50'	-14.4	-22.1		339.9		+406	+900	833,988	660,066	
TP	1172		64° 26' 28"	-	8.2	90° 50'	-17.0	-25.2		336.9	TP	+535	+043	834,117	660,209	
TP	1172				8.1	269° 10'	-17.0	-25.1			TP					
	1682		209 33 46	-1.6+	9.9	87° 30'	-73.3	-63.4	273.5		BS	+1484	+788			
	1682				+9.8	272° 30'	-73.3	-63.5			BS					
786	1548		208 33	--	7.2	87° 30'	+67.5	+60.3		333.8		-1380	-702	834,221	660,295	
787	1218		208 20'	--	8.8	87° 30'	+53.1	+44.3		317.8		-1088	-548	834,513	660,449	
788	890		209 50	--	6.5	87° 40'	+36.2	+29.7		303.2		-784	-421	834,817	660,576	
789	563		213 15	--	7.6	88° 20'	+16.4	+8.8		282.3		-479	-295	835,122	660,702	
790	233		214 05	--	8.4	88° 20'	+6.8	-1.6		271.9		-197	-125	835,404	660,872	
TP	0				5.1	-		-5.1		268.4	TP	0	0	835,601	660,977	
791	117		76 55	-1.6	6.4	88° 20'	+3.4	-3.0		270.5		+30	+113	835,631	661,110	
792	444		65° 58'	--	8.0	89° 20'	+5.2	-2.8		270.7		+192	+400	835,793	661,397	
793	774		- - -	--	11.8	89° 20'	+9.0	-2.8		270.7		+335	+698	835,936	661,695	
II	867		65 24 26	--	7.9	89° 40'	+5.0	-2.9		270.6		+383	+778	835,984	661,775	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
3.2.85		B. Cotcamp		K. Greenfield/p. Camp		6834		K. Cole		20		57				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
GEORGIA		UNADILLA-7 1/2'		G.A.		Houston-								W. Cassidy		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFER-ENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
794	1104		65° 58'	-1.6	9.1	87° 40'	+6.4	-2.7		270.8		+478	+995	836,079	661,992	
795	1434		-	-	10.8	87° 40'	+8.3	-2.5		271.0		+620	+1293	836,221	662,290	
796	1763		66° 25'	-	6.3	87° 40'	+10.3	+4.0		277.5		+750	+1595	836,351	662,592	
TP	1933		66° 30' 10"	-	3.6	87° 30'	+16.9	+13.3			TP	+820	+1750	836,421	662,747	
TP	1933			-	3.5	270° 30'	+16.9	+13.4		286.9	TP					
	1157		275° 00' 26"	-1.6	+10.6	92° 30'	+50.4	+61.0		347.9	BS	-69	+1154			
	1157			-	+10.6	267° 30'	+50.4	+61.0			BS					
797	989		275° 10'	-	6.6	92° 40'	-46.0	-52.6		295.3		+62	-987	836,414	662,914	
798	660		277° 25'	-	6.7	92° 30'	-28.8	-35.5		312.4		+67	-657	836,119	663,244	
799	330		278° 45'	-	5.0	92° 30'	-14.4	-19.4		328.5		+41	-327	836,393	663,574	
800	0			-	5.1	-		-5.1		342.8	X	0	0	836,352	663,901	
801	330		99° 30'	-1.6	6.2	87° 30'	+14.4	+8.2		356.1		-45	+327	836,307	664,228	
802	660		-	-	12.0	87° 30'	+28.8	+16.8		364.7		-91	+654	836,261	664,555	
#	727		97° 29' 30"	-	6.2	88° 10'	+23.2	+17.0		364.9	#F	-75	+723	836,277	664,624	4836,300 X 664,620 Inter. EL 366.0
TP	833		95° 46' 09"	-1.4	14.2	88° 10'	+26.6	+12.4			TP	-63	+830	836,289	664,731	
TP	833			-	14.1	271° 50'	+26.6	+12.5		360.4	TP					
	1470		246° 27' 45"	-1.4	+8.2	88°	-51.3	-43.1		317.2	BS	+619	+1332			
	1470			-	+11.4	272° 08'	-54.7	-43.3		43.23	BS					
803	1320		246° 05'	-	11.1	87° 50'	+49.9	+38.8		356.0		-564	-1193	836,344	664,870	
804	990		-	-	6.5	87° 50'	+37.4	+30.1		348.1		-423	-895	836,485	665,168	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3-25-85		B. G. Camp		K. Greenfield		6834		KUL		20		58			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		UNADILLA-7 1/2'		G.A.		Houston								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.		Y
									317.2						
805	660		246° 05'	-1.4	6.5	87° 30'	+28.8	+22.3		339.5		-282	-597	836,626	665,466
806	330		-	--	6.0	87° 30'	+14.4	+9.4		325.6		-141	-298	836,767	665,765
807	0			--	5.1	-		-5.1		312.1	TP	0	0	836,908	666,063
808	330		65° 35'	-1.4	9.7	91° 20'	-7.7	-17.4		299.9		+144	+297	837,052	666,360
809	660		65° 55'	--	9.0	91° 20'	-15.4	-24.4		292.8		+284	+596	837,192	666,659
810	985		69° 45'	--	7.4	91° 20'	-22.9	-30.3		286.9		+363	+916	837,271	666,979
811	1307		73° 45'	--	10.0	90° 48'	-18.2	-29.2		289.0		+396	+1245	837,304	667,308 UNADILLA-7 1/2' ↑
812	1601		78° 45'	--	10.1	89° 50'	+4.7	-5.4		311.8		+351	+1562	837,259	667,625 KLONDIKE-7 1/2' ↓
TP	1783		78° 19' 34"	--	7.2	89° 50'	+5.2	-2.0		315.2	TP	+403	+1737	837,311	667,800
TP	1783				7.1	270° 10'	+5.2	-1.9			TP				
	1272		241 27 30	-1.4	+14.0	91° -	+22.2	+36.2			BS	+635	+1102		
	1272				+13.9	269° -	+22.2	+36.1	351-3		BS				
813	1128		241 17	--	10.7	91° 10'	-23.0	-33.7		317.6		-566	-976	837380	667,926
814	799		-	--	11.0	91° 10'	-16.3	-27.3		324.0		-401	-691	837,545	668,211
815	469		-	--	6.4	91° 10'	-9.5	-15.9		335.4		-235	-406	837,711	668,496
816	139		-	--	5.1	90° 50'	-2.0	-7.1		344.2		-70	-126	837,896	668,782
TP	0				5.1	-		-5.1		346.2	TP	0	0	837,946	668,902
817	191		61 40	-1.4	7.9	90° 50'	-2.8	-10.7		340.6		+95	+166	838,041	669,068
818	521		-	--	9.9	90° 50'	-7.6	-17.5		333.8		+258	+452	838,204	669,354

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3.2-85		B. Cottrill		K. Greenfield/D. Coover		6834		B. de		20		59			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		KLONDIKE-7 1/2'		GA.		Houston								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
									351.3						
819	851		62° 46'	-1.4	7.1	90° 30'	-7.4	-14.5		336.8		+409	+746	838,355	669,648
820	1177		65° 16' 21"	--	5.0	-		-5.0		346.3	TP	+518	+1057	838,464	669,959
826	1177				4.9	270° -		-4.9			TP				
	658		263° 52' 30"	--	7.1	96° 30'	+5.7	+12.8			BS	+86	+652		
	658				5.1	90° 40'	+7.7	+12.8	359.1		BS				
1K	479		265° 22' 12"	-1.4	5.6	90° 40'	-5.6	-11.2		347.9	IK	-50	-476	838,500	670,135
821	330		262° 20'	--	7.1	96° 40'	-3.8	-10.9		348.2		-52	-326	838,498	670,285
822	0				5.1	-		-5.1		354.0	X	0	0	838,550	670,611
823	330		74° 45'	-1.4	4.5	88° 40'	+7.7	+3.2		362.3		+95	+316	838,645	670,927
824	660		76° 04' 34"	--	14.9	88° 40'	+15.4	+0.5		359.6	TP	+174	+636	838,724	671,247
824	660				14.8	211° 20'	+15.4	+0.6			TP				ACROSS station
	1320		266° 40' 14"	--	9.8	BH	+6.6	+16.4			BS	+109	+1316		
	1320				9.7	BH 270°	+6.6	+16.3	375.9		BS				
825	990		266° 40'	-1.4	11.4	90° 30'	-8.6	-20.0		355.9		-82	-987	838,751	671,576
826	660		267° 10'	--	11.3	90° 30'	-5.8	-17.1		358.8		-49	-658	838,784	671,905
827	330			--	8.5	90° 30'	-2.9	-11.4		364.5		-24	-329	838,809	672,234
828	0				5.1	-		-5.1		370.8	X	0	0	838,833	672,563
829	330		86° 30'	-1.4	10.7	90° 30'	-2.9	-13.6		362.3		+28	+329	838,861	672,892
830	660			--	12.0	90° 44'	-8.4	-20.4		355.5		+56	+658	838,889	673,221
831	990			--	10.1	90° 44'	-12.7	-22.8		353.1		+85	+986	838,918	673,549

Y=838,500 X=670,135
 Inter. at 351.0
 Horiz. y + 20'
 Cor. X - 23'

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
3.2-85		B. Cotcamp		K. Greenfield/p. Cloud		6834		B. Cloud		20		60				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
GEORGIA		Klondike-7 1/2'		G.A.		Houston								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	X
									375.9							
IK	1202		86° 14' 16"	-1.4	6.4	90° 40'	-14.0	-20.4		355.5	IK	+108	+1197	838,941	673,760	IK 7838,955 X 673,765 IK Inter Fl.
832	1320		86° 08' 58"	-	6.5	90° 40'	-15.4	-21.9			TP	+121	+1314	838,954	673,877	E.O.L. line #20
832	1320				6.4	269° 20'	-15.4	-21.8		354.1	TP					
	118				6.6	-		+6.6		360.7						
	118				6.0	BH	+0.6	+6.6								
T	0				5.1	-		-5.1		355.6	T					
Bm	79				6.7	-		-6.7		354.0	Bm					U.S.G.S. 100 RMP E2. 354 1785