

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
10-29-84		B. Cotcamp		K. Greenfield		6834		BC.		16		1				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
GEORGIA		ALTAMAMA - 7 1/2'		GEORGIA		Appling								L.O. Davis		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
K.	y-intersect	y-	86.400 x; 500,600						160.0						y-intersect y - 86.400 x - 500,600	
BS	255		298° 19' 57"	-2.3	1.3	-	+1.3	+1.3			BS	-112	+229			
BS	272		297° 30'	-	6.0	88° 55'	-5.1	+0.9	160.7		BS				SPOT ELEVATION EL. 160.0	
X	0				5.1	-	-5.1			155.8	X	0	0	686,209	500,829	
1	130		125° 40'	-	6.7	89° 40'	+0.8	-5.9		155.0		-72	+109	686,217	500,938	B.O.L. Line # 16
2	460		" "	-	5.7	89° 40'	+2.7	-3.0		157.9		-253	+384	686,036	501,213	
3	789		124° 00'	-	5.8	89° 20'	+9.2	+3.4		164.3		-415	+671	685,874	501,500	
4	1119		123° 20'	-	11.8	89° 20'	+13.0	+1.2		162.1		-577	+959	685,712	501,788	
5	1449		123° 16'	-	8.2	89° 30'	+12.6	+4.4		165.3		-713	+1244	685,546	502,073	
16	1552		123° 13' 48"	-	9.2	89° 30'	+13.5	+4.3		165.2	16	-798	+1331	685,491	502,160	y - 685,505 x - 502,170 y - intersect
TP	1673		123° 19' 53"	-2.3	6.4	89° 38'	+10.7	+4.3		165.2	TP	-862	+1434	685,429	502,263	
TP	1673				6.3	270° 22'	+10.7	+4.4			TP					
	1289		314° 58' 10"	-	9.0	88° 40'	-30.0	-21.0	144-2		BS	-873	+948			
	1289				5.2	88° 50'	-26.2	-21.0			BS					
6	1181		314° 35'	-	7.4	88° 40'	+27.5	+20.1		164.3		+795	-874	685,353	502,337	
7	851		315° 10'	-	7.7	88° 40'	+19.8	+12.1		156.3		+579	-624	685,137	502,587	
8	521		" "	-	9.8	88° 40'	+12.1	+2.3		146.5		+354	-382	684,912	502,829	
?	194		307° 00'	-	7.7	88° 40'	+4.5	-3.2		141.0		+110	-160	684,668	503,051	
	0				5.1	-	-5.1			139.1	X	0	0	684,558	503,211	
	155		167° 35'	-2.3	5.4	-	-5.4			138.8		-150	+37	684,408	503,250	
	483		160° 40'	-	7.1	-	-7.1			137.1		-449	+178	684,109	503,389	

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11-29-84		B. Catecamp		K. Greenfield		6834		B.C.		16		2			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Georgia		ALTAHAMA - 7 1/2'		G.A.		Appling								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
									144.2						
12	813		159° 50'	-2.3	13.4	TM	+4.1	-9.3		134.9		-751	+311	683,807	503,522
13	1143		160° 50'	--	10.0	-		-10.0		134.2		-1064	+418	683,494	503,679
TP	1247		160° 49' 46"	--	7.6	-		-7.6			TP	-1160	+456	683,400	503,667
TP	1247				7.5	270°		-7.5		136.7	TP				
	292		0° 43' 18"	-2.3	11.5	-		+11.5	148.2		BS	-792	+8		
	292				10.0	BK	+1.5	+11.5			BS				
14	64		5° 40'	--	5.3	-		-5.3		142.9		+64	+4	683,174	503,679
π	0				5.1	-		-5.1		143.1	π	0	0	683,110	503,675
15	266		191° 10'	--	4.9	91° 20'	-6.2	-11.1		137.1		-263	-41	682,847	503,634
16	596		189° 55'	--	6.1	91° 20'	-13.9	-20.0		128.2		-591	-79	682,519	503,596
17	926		189° 10'	--	7.8	91° 20'	-21.5	-29.3		118.9		-919	-111	682,191	503,564
#1	1019		188° 47' 12"	--	7.7	91° 20'	-23.7	-31.4		116.8	#1	-1012	-115	682,098	503,560
18	1258		188° 21' 26"	--	8.8	91° 20'	-29.3	-38.1		110.1	TP	-1251	-133	681,861	503,542
18	1258				6.7	91° 26'	-31.5	-38.2			TP				
	1041		20° 53' 43"	-2.3	5.6	88° 30'	-27.2	-21.6	88.5		BS	-986	-332		
	1041				5.5	271° 30'	27.2	-21.7			BS				
19	712		20° 55'	--	6.8	88° 50'	+14.5	+7.7		96.2		+675	+227	681,552	503,437
20	382		19° 55'	--	5.2	89° 30'	+3.3	-1.9		86.6		+364	+116	681,241	503,326
21	54		5° 10'	--	5.9	88° 20'	+1.6	-4.3		84.2		+54	+3	680,931	503,213
π	0				5.1	-		-5.1		83.4	π	0	0	680,877	503,210

ALTAHAMA 7 1/2' T
 #1 T - Intersect El. 116.0
 DISTANCE 5.0 - 7 1/2'

VEY NOTES-HIGH RESOLUTION DATA

Geosource Inc.

J-445

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE					
11-29-84		B. Cotcamp		K. Greenfield		6834		B.C.		16		3					
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER			
Georgia		ALPmhd-7/2		G.A.		Appling								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	
22	271		187° 30'	-2.3	4.8	88° 30'	+7.1	+2.3	88.5	90.8		-270	-25	680,607	503,185		
23	598		182° 17' 47"	"	5.9	87° 30'	+26.1	+20.2	110.4	108.7	TP	-598	± 0	680,281	503,210		
23	598				4.2	87° 40'	+24.3	+20.1		TP			12				
	912		25° 16' 53"	-	9.7	89° 30'	-8.0	+1.7		BS			-840	-356			
	912			+	9.6	276° 30'	-8.0	+1.6	BS			11					
24	582		25° 30'	"	6.8	89° 10'	+8.5	+1.7		112.1		+535	+229	679,977	503,083		
25	252		"	"	6.3	89° 10'	+3.7	-2.6		107.8		+232	-79	679,674	502,953		
	0				5.1	-	-	-5.1		105.3	X	0	0	679,442	502,854		
26	72		156° 15'	-2.3	6.3	92° 10'	-2.7	-9.0		101.4		-65	+32	679,377	502,886		
#1	17		196° 00'	"	5.7	92° 10'	-0.6	-6.3		104.1	#1	-17	-4	679,425	502,850	#1 T - intersect HORIZ. B - CORR. X = 30	
27	400		146° 30'	"	8.0	91° 20'	-9.3	-17.3		93.1		-398	+267	679,144	503,121		
28	727		144° 00'	"	8.8	91° 20'	-16.9	-25.7		84.7		-571	+451	678,871	503,305		
29	1057		145° 15'	"	5.0	91° 20'	-24.6	-29.6		80.8		-844	+637	678,598	503,491		
JF	1284		144° 20' 40"	"	7.5	91° -	-22.4	-29.9		80.5	JF	-1012	+790	678,430	503,644	JF T - intersect HORIZ. B - CORR. X = 30	
30	1386		144° 29' 27"	"	4.0	91° -	-24.2	-28.2	99.6		TP	-1095	+850	678,347	503,704		
30	1386				3.9	269° -	-24.2	-28.1		TP							
	1632		310° 09' 08"	-2.3	7.8	90° 20'	+9.5	+17.3		BS			-1001	+1289			
	1632			+	7.7	269° 40'	+9.5	+17.2	BS								
31	1304		308° 50'	"	7.0	90° 20'	-7.6	-14.6		85.0		+776	-1048	678,122	503,945		
32	974		"	"	11.6	-	-	-11.6		88.0		+580	-783	677,926	504,210		
33	645		309° 20'	"	8.3	-	-	-8.3		91.3		+388	-515	677,734	504,478		

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11-29-84		B. Cotcamp		K. Greenfield		6834		B.C.		16		4			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		ALTA-RMA-S.W. - 7 1/2'		G.A.		APPLING								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									99.6						
34	316		306° 20'	-2.3	6.4	-		-6.4		93.2		+177	-262	679,523	504,731
Bm	165		330° 49' 30"	-	5.2	-		-5.2		94.4	Bm	+141	-86	679,489	504,907
X	0				5.1	-		-5.1		94.5	X	0	0	679,346	504,993
35	92		217° 35'	-	5.5	-		-5.5		94.1		-75	-53	679,271	504,940
36	376		164° 25'	-	3.7	-		-3.7		95.9		-358	+115	676,988	505,108
37	705		162° 15'	-	9.0	89°	+12.3	+3.3		102.9		-662	+212	676,684	505,235
38	1035		-	-2.3	6.8	89°	+18.1	+11.3		110.9		-972	+355	676,374	505,348
39	1365		-	-	5.3	89°	+23.8	+18.5		118.1		-1282	+468	676,064	505,461
40	1695		-	-	8.3	89°	+29.6	+21.3		120.9		-1592	+581	675,754	505,574
41	2025		162° 30' 18"	-2.6	10.6	89° 06'	+31.8	+21.2			TP	-1901	+696	675,445	505,689
41	2025				10.3	276° 54'	+31.8	+21.5		121.0	TP				
	1973		352° 34' 18"	-2.6	+10.6	BH	+9.9	+20.5			BS	-1943	+344		
	1973				+10.3	BH 270°	+9.9	+20.2		120.47	BS				
42	1645		353° 05'	-	10.1	90° 20'	-9.6	-19.7		121.7		+1622	-272	675,124	505,761
42	1850		353° 19' 32"	-	8.6	90° 20'	-10.8	-19.4		122.0					
43	1316		352° 30'	-	13.7	90° 20'	-7.7	-21.4		120.0		+1296	-231	674,798	505,802
44	987		350° 40'	-	8.9	90° 50'	-14.4	-23.3		118.1		+966	-204	674,468	505,829
45	659		347° 35'	-	9.0	90° 50'	-9.6	-18.6		122.8		+637	-171	674,139	505,862
46	330		344° 35'	-	7.7	90° 50'	-4.8	-12.5		128.9		+314	-102	673,816	505,931
47	0				5.1	-		-5.1		136.3	X	0	0	673,502	506,033

5-671,495 X-504,850
U.S.G.S. B.M. 51,94.0

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11-30-84		B. Cotcamp		K. Greenfield		6834		-B.C.		16		5			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Georgia		ALTAMAHA S.W. - 7 1/2		Georgia		Appling								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 -	EAST + WEST -		Y
									141.4						
48	330		156° 55'	-2.6	5.6	88° 10'	+10.6	+5.0		146.4		-297	+143	673,205	506,176
49	660		" "	" "	5.4	88° 10'	+21.1	+15.7		157.1		-595	+286	672,907	506,319
50	990		" "	" "	10.7	88° 10'	+31.7	+21.0		162.4		-892	+429	672,610	506,462
51	1320		" "	" "	9.8	88° 30'	+34.5	+24.7		166.1		-1190	+572	672,312	506,605
52	1650		" "	" "	9.3	88° 30'	+43.2	+33.9		175.3		-1487	+715	672,015	506,748
53	1978		157° 44' 11"	" "	12.2	88° 30'	+51.8	+39.6			TP	-1794	+831	671,708	506,864
53	1978		" "	" "	12.1	271° 30'	+51.8	+39.7		181.1	TP				
	1283		11° 01' 58"	-2.6	13.8	-	-	+13.8			BS	-1269	-188		
	1283		" "		13.6	270°	-	+13.6	+13.8	194.8	BS				
54	971		16° 35'	" "	12.1	-	-	-12.1		182.7		+942	+235	671,381	506,911
55	654		22° 10'	" "	9.1	-	-	-9.1		185.7		+616	+219	671,055	506,895
56	330		28° 10'	" "	6.4	-	-	-6.4		188.4		+298	+142	670,737	506,818
57	0		" "	" "	5.1	-	-	-5.1		189.7	X	0	0	670,439	506,676
58	330		217° 40'	-2.6	6.3	TH	+1.7	-4.6		190.2		-270	-190	670,169	506,486
59	660		" "	" "	3.3	-	-	-3.3		191.5		-540	-379	669,899	506,297
60	989		216° 55'	" "	7.8	TH	+4.9	-2.9		191.9		-87	-558	669,622	506,118
61	1315		214° 00'	" "	9.3	TH	+6.6	-2.7		192.1		-1122	-685	669,317	506,018
62	1630		210° 06' 18"	-2.8	11.3	TH	+8.2	-3.1			TP	-1448	-748	668,991	505,928
62	1630		" "	" "	10.9	TH 270°	+8.2	-2.7	-2.9	191.9	TP				

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AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		ALTAHAMA S.W. - 7 1/2		G.A.		APPLING								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
									191.9						
	1980		2° 54' 48"	-2.8	11.6	89° 30'	-17.3	-5.7	-593186.0		BS	-1980	-4		
	1980				11.1	270° 30'	-17.3	-6.2		BS					
63	1650		2° 30'	--	10.6	89° 30'	+14.4	+3.8		189.8		+1650	-9	668,661	505,915
64	1320		--	--	9.0	89° 30'	+11.5	+2.5		188.5		+1320	-7	668,331	505,917
65	990		--	--	7.2	89° 30'	+8.6	+1.4		187.4		+990	-5	668,001	505,919
66	660		2° 50'	--	5.3	89° 30'	+5.8	+0.5		186.5		+660	±0	667,671	505,924
67	330		--	--	3.9	89° 30'	+2.9	-1.0		185.0		+330	±0	667,341	505,924
Bm	145		28° 16' 59"	--	3.5	89° 30'	+1.3	-2.2		183.8	Bm	+131	+62	667,142	505,986
68	0				5.1	--	--	-5.1		180.9	X	0	0	667,011	505,924
69	330		182° 30'	-2.8	10.3	90° 30'	-2.9	-13.2		172.8		-330	+2	666,681	505,926
70	659		180° 35'	--	13.1	90° 30'	-5.8	-18.9		167.1		-659	+25	666,352	505,949
#	935		178° 44' 24"	--	8.7	90° 30'	-8.2	-16.9		169.1	#	-933	+66	666,078	505,990
71	988		180° 44'	--	7.2	90° 30'	-8.6	-15.8		170.2		-987	+36	666,024	505,960
72	1312		183° 05'	--	9.2	--	--	-9.2		176.8		-1312	-6	665,699	505,918
73	1642		--	--	7.2	--	--	-7.2		178.8		-1642	-8	665,369	505,916
74	1972		--	--	7.7	--	--	-7.7		178.3		-1972	-10	665,039	505,914
75	2302		182° 56' 48"	--	8.3	--	--	-8.3			TP	-2302	-6	664,709	505,918
75	2302				8.0	270°	--	-8.0		177.9	TP				
	1317		5° 33' 58"		7.7	88° 46'	-28.3	-20.6			BS	-1315	-64		
	1317				10.1	88° 40'	-30.6	-20.5	157.4		BS				

U.S.G.S. Bm EL. 134.0
30 E 170 312 D

U.S.G.S. Bm EL. 506.000
7 F 4 WA 6 IN 7 E.

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11-30-84		B. Cotcamp		K. Greenfield		6834		B.P.		16		7			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		ALTAMAHA S.W. - 7 1/2		G.A.		APPLING								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
									151.4						
76	987		5° 35'	-2.8°	6.0	89° -	+17.2	+11.2		168.6		+986	+48	664,380	505,902
77	657		6° 55'	--	10.9	89° -	+11.5	+0.6		158.0		+655	+47	664,049	505,901
78	328		10° 00'	--	8.2	-		-8.2		149.2		+325	+41	663,719	505,895
79	0				5.1	-		-5.1		152.3	TP	0	0	663,394	505,854
80	330		208° 55'	-2.8°	5.2	87° 50'	+12.5	+7.3		164.7		+296	-145	663,098	505,709
81	660			--	7.0	87° 50'									
82	990		209° 08' 17"	--	15.0	88° 10'	+31.7	+16.7			TP	-887	-439	662,507	505,415
82	990				14.9	271° 50'	+31.7	+16.8		174.2	TP				
	988		23° 29' 00"	-2.7°	5.2	90° 30'	+8.6	+13.8	188.0		BS	-924	-349		
	988				+5.1	269° 30'	+8.6	+13.7			BS				
83	660		22° 00'	--	8.9	90° 30'	-5.8	-14.7		173.3					
84	330		" "	--	4.6	90° 30'	-2.9	-7.5		180.5					
85	0				5.1	-		-5.1		182.9	TP	0	0	661,963	505,066
86	330		199° 12'	-2.7°	5.6	89° 30'	+2.9	-2.7		185.3					
#	384		198° 00' 24"	--	5.0	89° 30'	+3.4	-1.6		186.4	#	-371	-101	661,212	504,965
87	660		199° 12'	--	7.2	89° 40'	+3.8	-3.4							
88	990		199° 12' 05"	PPM 12-11-84	8.6	89° 40'	+5.8	-3.8		184.2	TP				
88	990				6.7	89° 50'	+2.9	-3.8			TP				
	1649		18° 01' 49"	-2.7°	3.9	-		+3.9	188.0		BS				
	1649				+3.6	220° -		+3.6	+3.83		BS				

661,210 x 504,960
4 ways EL. 187.0

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
12.6.84		B. Cotcamp		K. Greenfield		6834		RWG		16		9			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		ALABAMA S.W. - 1/2		GA		Appling								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
									187.5						
	628		305° 43' 38"	-27°	14.7	-		+14.7	190.4		BS	-342	+527		
	628				+14.6	270°		+14.6		BS					
91	483		316° 25'	--	8.2	-		-8.2		182.2		+334	-349	661.309	508.541
92	330		357° 50'	--	5.9	-		-5.9		184.5		+329	-28	661.304	508.862
93	0				5.1	-		-5.1		185.3	T	0	0	660.975	508.890
94	330		178° 30'	-27°	5.1	-		-5.1		185.3		-329	+24	660.646	508.914
95	660		-	--	6.6	-		-6.6		183.8		-658	+48	660.317	508.938
96	990		-	--	12.4	-		-12.4		178.0		-987	+73	659.988	508.963
TP	1189		178° 32' 58"	--	12.0	-		-12.0			TP	-1186	+86	659.789	508.976
TP	1189				11.7	270°		-11.7	-1189	178.5	TP				
	457		285° 40' 35"	-27°	3.7	TH	-2.3	+1.4	179.9		BS	-103	+445		
	457				+3.6	TH 270°	-2.3	+1.3		BS					
97	330		285° 30'	--	7.1	89° 10'	+4.8	-2.3		177.6		+73	-322	659.759	509.099
98	0				5.1	-		-5.1		174.8	T	0	0	659.686	509.421
99	331		121° 47' 16"	--	7.5	-		-7.5		172.4	TP	-161	+289	659.525	509.710
99	331				5.8	84	-1.9	-7.5			TP				
	327		313° 07' 02"	--	+2.6	-		+2.6	175.0		BS	-212	+249		
	327				+4.3	TH	-1.6	+2.7		BS					
100	0				5.1	-		-5.1		169.9	T	0	0	659.313	509.959
101	330		121° 55'	--	5.3	89° 20'	+3.8	-1.5		173.5		-161	+288	659.152	510.247

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
12-6-84		B. Cotcamp		K. Greenfield		6834		KW6		16		10			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Georgia		ALTAHAMA S.W.-7 1/2		Georgia		Appling								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
									175.0						
TP	649		123° 57' 17"	-2.7	6.1	89° 20'	+7.5	+1.4	}	176.4	TP	-337	+555	658,976	510,514
TP	649				8.0	89° 10'	+9.4	+1.4		TP					
	1241		3° 09' 39"	--	+14.4	89° 36'	-8.7	+5.9	}	182.1	BS	-1241	-10		
	1241				+14.3	270° 24'	-8.7	+5.6			BS				
102	1210		2° 18'	--	12.6	89° 36'	+8.4	-4.2		179.9		+1210	-8	658,945	510,496
103	881		" "	--	10.1	89° 10'	+12.8	+2.7		184.8		+881	-6	658,616	510,498
104	551		" "	--	5.4	89° 10'	+8.0	+2.6		184.7		+551	-4	658,286	510,500
105	221		0° 45'	--	6.7	88° 10'	+7.1	+0.4		182.5		+221	-8	657,956	510,496
X	0				5.1	-		-5.1		179.0	X	0	0	657,735	510,504
106	107		156° 45'	-2.7	8.2	-		-8.2		173.9		-76	+47	657,639	510,551
107	435		151° 15'	--	13.0	-		-13.0		169.1		-371	+227	657,361	510,731
108	765		151° 17' 18"	--	4.0	BH	-3.8	-7.8	}	174.3	TP	-653	+399	657,082	510,903
108	765				3.9	BH 270	-3.8	-7.7			TP				
	770		31° 42' 46"	-2.7	+7.0	88° 30'	-20.2	-13.2	}	161.1	BS	-673	-373		
	770				+4.8	88° 40'	-19.9	-13.1			BS				
109	446		31° 40'	--	6.0	88° 20'	+13.0	+7.0		168.1		+390	+216	656,799	510,746
110	116		" "	--	6.0	88° 20'	+3.4	-2.6		158.5		+101	+56	656,510	510,586
X	0				5.1	-		-5.1		156.0	X	0	0	656,409	510,530
111	214		212° 00'	--	5.4	90° 50'	-3.1	-8.5		152.6		-187	-105	656,222	510,425
112	500		187° 30'	--	5.1	89° 30'	+4.4	-0.7		160.4		-498	-42	655,911	510,488

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
12-6-84		B. Cotcamp		K. Greenfield		6834		KOF		16		11			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Georgia		ALTAHAMA		G.A.		Appling								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
									161.1						
TP	737		187° 17' 22"	-2.7°	5.6	89° 34'	+1.3	-4.3	156.8	TP	-735	-59	655.674	510.471	
TP	737				5.5	270° 00'	+1.3	-4.2							
	416		1° 03' 02"	--	+10.1	87° 50'	-15.7	-5.6	151.2	BS	-416	+12			
	416				+10.0	272° 10'	-15.7	-5.7							
113	327		357° 10'	--	8.5	88° -	+11.4	+2.9	154.1		+325	-32	655.582	510.451	
114	0				5.1	-		-5.1	146.1	X	0	0	655.257	510.483	
115	330		183° 10'	--	6.7	91° 30'	-8.6	-15.3	135.9		-330	-3	654.927	510.480	
116	660		183° 11' 01"	--	5.7	91° 30'	-17.3	-23.0	128.2	TP	-660	-6	654.595	510.475	
116	660				5.6	268° 30'	-17.3	-22.9							
	422		326° 38' 44"	-2.7°	+13.8	88° 10'	-13.5	+0.3	128.5	BS	-313	+283			
	422				+13.7	271° 50'	-13.5	+0.2							
117	93		317° 50'	--	5.4	89° 40'	+0.5	-4.9	123.6		+66	-66	654.346	510.690	
X	0				5.1	-		-5.1	123.4	X	0	0	654.280	510.756	
118	242		183° 40'	--	3.3	90° 40'	-2.8	-6.1	122.4		-242	-4	654.038	510.752	
TP	479		183° 00' 47"	--	8.7	90° 40'	-5.6	-14.3	114.2	TP	-479	-3	653.799	510.751	
TP	479				7.2	90° 50'	-6.7	-14.2							
	165		40° 17' 42"	--	+3.5	-		+3.5	117.7	BS	-131	-101			
	165				+2.7	BH	+0.8	+3.5							
119	68		40° 20'	--	5.0	-		-5.0	112.7		+54	+42	653.720	510.690	
#	32		44° 00'	--	4.5	-		-4.5	113.2	#	+24	+21	653.690	510.669	# creek crossing

653.700 x - 510.690
creek crossing

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
12.6.84		B. Cotcamp		K. Greenfield		6834		RWG		16		12			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA				GA.		Appling								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
									119.7						
X	0				5.1	-		-5.1		112.6	X	0	0	653,666	510,648
120	262		227° 20'	-2.7	3.9	88°	+9.1	+5.2		122.9		-186	-184	653,480	510,464
TP	300		226° 04' 12"	-	4.0	88°	+10.5	+6.5		124.2	TP	-218	-206	653,446	510,440
TP	300			-	3.1	88° 16'	+9.7	+6.6			TP	-2	-2		
	981		2° 25' 39"	-2.7	8.9	92° 40'	+45.6	+54.5	178.7		BS	-980	+5		
	981				+11.8	92° 30'	+42.8	+54.6			BS	-2	-2		
121	687		2° 10'	-	11.7	93°	-35.9	-47.6		131.1		+687	-6	653,151	510,437
122	357		-	-	11.8	93°	-18.7	-30.5		148.2		+357	-3	652,821	510,440
123	29		-	-	5.1	93°	-1.5	-6.6		172.1	#	+29	+0	652,493	510,443
X	0				5.1	-		-5.1		173.6	X	0	0	652,464	510,443
124	302		208° 48' 36"	-2.7	2.6	88° 30'	+7.9	+5.3		184.0	TP	-271	-133	652,191	510,308
124	302			-	3.5	88° 20'	+8.8	+5.3			TP	-2	-2		
	990		9° 45' 46"	-	+2.4	-		+2.4	186.4		BS	-982	-122		
	990			-	+2.3	270°		+2.3			BS	-2	-2		
125	660		9° 45'	-	2.2	-		-2.2		184.2		+655	+81	651,862	510,265
126	330		-	-	3.7	-		-3.7		182.7		+328	+41	651,535	510,225
127	0				5.1	-		-5.1		181.3	X	0	0	651,207	510,184
128-141	189		119° 40'	-	5.3	-		-5.3		181.1	#	-86	+168	651,121	510,352
IF	261		114° 08' 36"	-	4.4	-		-4.4		182.0	IF	-95	+243	651,110	510,425
IF	261			-	3.1	BH	-1.3	-4.4			IF	-2	-2		

- 652,500 x - 510,420
pipeline 45

⊗ 128 + 141 same station.
4 - 651,110 x - 510,425
7 - intersect EL 184.0
Horiz 7 - -19'
coll. x - -18'

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
12-1-84		B. Cotcamp		K. Greenfield		6834		KWB		16		13			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		ATLANTA S.W.-7 1/2'		G.A.		Appling								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
									185.0						
X	0				5.1	-		-5.1		179.9	X	0	0		
140	236		107° 35'		6.3	89° 40'	+1.4	-4.9		180.1					
141	566		108° 10'		6.8	89° 40'	+3.3	-3.5		181.5		651.121	510.352		Same as # 128
IF	639		107° 39' 05"		6.5	89° 40'	+3.7	-2.8		182.2	IF				651.105 x = 510.450
IF	639				4.7	89° 50'	+1.9	-2.8			IF				IF - Intersect pt. 184.0
	5561		2° 48' 19"	-2.5	8.8	89° 54'	-9.7	-0.9			BS	-5561	-30		
	5561				+7.9	270° 06'	-9.7	-1.8	-1.33	180.9	BS				
142	5277		2° 44'	--	7.4	89° 56'	+6.1	-1.3		179.6		+5277	+21	650,821	510,441
143	4950		" "	--	7.5	89° 56'	+5.7	-1.8		179.1		+4950	+20	650,494	510,440
144	4620		" "	--	7.6	89° 56'	+5.4	-2.2		178.7		+4620	+19	650,164	510,439
145	4290		" "	--	8.5	89° 56'	+5.0	-3.5		177.4		+4290	+17	649,834	510,439
146	3960		2° 44'	--	8.4	89° 56'	+4.6	-3.8		177.1		+3960	+16	649,504	510,436
147	3630		2° 40'	-2.5	6.1	89° 56'	+4.2	-1.9		179.0		+3630	+11	649,174	510,431
148	3300		" "	--	5.7	89° 56'	+3.8	-1.9		179.0		+3500	+10	648,844	510,430
149	2970		" "	--	9.0	89° 54'	+5.2	-3.8		177.1		+2970	+9	648,514	510,429
150	2640		" "	--	8.5	89° 54'	+4.6	-3.9		177.0		+2640	+8	648,184	510,428
151	2310		" "	--	7.7	89° 54'	+4.0	-3.7		177.2		+2310	+7	647,854	510,427
IF	2224		2° 43' 31"	--	7.8	89° 54'	+3.9	-3.9		177.0	IF	+2224	+9	647,768	510,429
152	1980		2° 30'	--	7.7	89° 54'	+3.5	-4.2		176.7		+1980	±0	647,524	510,420
153	1650		" "	--	7.0	89° 54'	+2.9	-4.1		176.8		+1650	±0	647,194	510,420

4 way Intersect pt. 178.0

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
12-1-84		B. Cotcamp		K. Greenfield		6834		K.W.F.		16	14					
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER					
GEORGIA		ALTAHAMA S.W.-7 1/2		G.A.		APPLING					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
									180-9							
154	1320		2° 30'	-2.5	6.0	89° 50'	+3.8	-2.2		178.7		+1320	± 0	646,864	510,420	
155	990		" "	" "	7.8	89° 50'	+2.9	-4.9		176.1		+990	± 0	646,534	510,420	
156	660		" "	" "	9.3	89° 50'	+1.9	-7.4		173.5		+660	± 0	646,204	510,420	
157	330		" "	" "	7.9	89° 50'	+1.0	-6.9		174.0		+330	± 0	645,874	510,420	
158	0				5.1	-		-5.1		175.8	π	0	0	645,544	510,420	
159	330		183° 00'	-2.5	5.6	89° 50'	+1.0	-4.6		176.3		-330	-3	645,214	510,417	
16	260		181° 46' 30"	" "	5.1	89° 50'	+0.8	-4.3		176.6	π	-260	+3	645,284	510,423	π - 645,285 X = 510,410 π - 645,284 X = 510,420
160	660		183° 00'	" "	7.0	89° 50'	+1.9	-5.1		175.8		-660	-6	644,884	510,414	APPLING County
161	990		" "	" "	8.7	89° 50'	+2.9	-5.8		175.1		-990	-9	644,554	510,411	WAYNE County ↓
162	1320		" "	" "	7.6	-		-7.6		173.3		-1320	-12	644,224	510,408	
163	1650		" "	" "	8.7	-		-8.7		172.2		-1650	-14	643,894	510,406	
164	1980		183° 00'	-2.5	8.8	-		-8.8		172.1		-1980	-17	643,564	510,403	
165	2310		" "	" "	7.7	-		-7.7		173.2		-2310	-20	643,234	510,400	
166	2640		" "	" "	8.0	-		-8.0		172.9		-2640	-23	642,904	510,397	
167	2970		" "	" "	9.2	-		-9.2		171.7		-2970	-26	642,257	510,394	
168	3300		" "	" "	10.7	-		-10.7		170.2		-3300	-29	642,244	510,391	
169	3630		183° 00'	-2.5	13.0	-		-13.0		167.9		-3630	-32	641,914	510,388	
170	3960		" "	" "	10.6	90° 04'	-4.6	-15.2		165.7		-3960	-35	641,584	510,385	
171	4290		" "	" "	12.0	90° 04'	-5.0	-17.0		163.9		-4290	-37	641,254	510,383	
172	4620		" "	" "	12.8	90° 04'	-5.4	-18.2		162.7		-4620	-40	640,924	510,380	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
12.1.84		B. Cotcamp		K. Greenfield		6834		KWG		16		15			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		ALTAMAHAS.W. - 7 1/2		G.A.		Appling / Wayne								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
									180.9						
173	4950		183° 00'	-3.5	10.4	90° 04'	-5.7	-16.1		164.8		-4950	-43	640,594	510,377
174	5278		182° 58' 00"	"	10.6	90° 04'	-6.1	-16.7			TP	-5278	-43	640,266	510,377
174	5278				9.9	209° 56'	-6.1	-16.0	-16.3	164.6	TP				
	989		359° 34' 30"	" +	7.9	90° 30'	+8.6	+11.5			BS	-988	+50		
	989			" +	5.8	90° 20'	+5.8	+11.6	176.2		BS				
175	660		359° 20'	-2.5	8.1	90° 10'	-1.9	-10.0		166.2		+659	-26	639,937	510,391
176	330		"	"	5.8	90° 10'	-1.0	-6.8		169.4		+330	-18	639,608	510,409
177	0				5.1	-		-5.1		171.1	T	0	0	639,278	510,427
178	330		183° 40'	"	3.0	89° 50'	+1.0	-2.0		174.2		-330	-7	638,948	510,420
179	660		"	"	7.0	89° 50'	+1.9	-5.1		171.1		-660	-13	638,618	510,414
180	990		183° 47' 54"	"	7.6	89° 50'	+2.9	-4.7		171.5	TP	-990	-22	638,288	510,405
180	990				10.5	89° 40'	+5.8	-4.7			TP				
	1979		2° 33' 12"	-2.5 +	6.7	-		+6.7			BS	-1979	-2		
	1979			" +	6.2	270°		+6.2	178.0		BS				
181	1650		2° 35'	"	5.3	-		-5.3		172.7		+1650	+2	639,959	510,405
182	1320		"	"	4.5	-		-4.5		173.5		+1320	+2	639,629	510,405
183	990		"	"	9.4	TH	+5.0	-4.4		173.6		+990	"	639,299	510,404
184	660		"	"	6.8	-		-6.8		171.2		+660	+1	636,969	510,404
185	330		"	"	7.1	-		-7.1		170.9		+330	+0	636,639	510,403
186	0				5.1	-		-5.1		172.9	T	0	0	636,309	510,403

↑
ALTAMAHAS.W. - 7 1/2
↓
Surrency - 7 1/2

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
12-1-84		B. Lotcamp		K. Greenfield		6834		B.C.		16		16			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Georgia		Surrey - 7 1/2'		GA.		Appling/Wayne								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
									178.0						
187	330		182° 23'	-2.5°	6.3	-		-6.3		171.7		-330	+1	635,999	510,404
188	660		" "	--	9.6	-		-9.6		168.4		-660	+1	635,649	510,404
HI	378		181° 43' 00"	--	6.2	-		-6.2		171.8	HI	-378	+5	635,931	510,408
189	990		182° 23'	--	11.8	-		-11.8		166.2		-990	+2	635,319	510,405
190	1320		" "	--	9.8	-		-9.8		168.2		-1320	+3	634,989	510,406
TP	1460		182° 27' 20"	-2.7°	9.9	-		-9.9			TP	-1460	+6	634,849	510,409
TP	1460		" "		9.6	270°		-9.6	-9.73	168.3	TP				
	843		5° 15' 38"	--	+9.0	-		+9.0			BS	-843	-38		
	843		" "		+4.8	BH	+4.2	+9.0		177.3	BS				
191	660		3° 48'	--	9.1	-		-9.1		168.2		+660	+13	634,667	510,384
192	330		" "	--	6.0	-		-6.0		171.3		+330	+6	634,337	510,377
193	0		" "		5.1	-		-5.1		172.2	X	0	0	634,007	510,371
194	330		182° 50'	-2.7°	5.7	-		-5.7		171.6		-330	-1	633,677	510,370
195	660		" "	--	4.7	-		-4.7		172.6		-660	-2	633,347	510,369
196	990		182° 55' 12"	--	3.2	-		-3.2			TP	-990	-4	633,017	510,367
196	990		" "		8.1	TH	+5.0	-3.1		174.2	TP				
	3628		2° 33' 04"	--	+8.9	-		+8.9			BS	-3628	+9		
	3628		" "		+8.2	270°		+8.2	+8.13	182.8	BS				
197	3300		2° 33'	-2.7°	9.2	-		-9.2		173.6		+3300	-9	632,689	510,367
196	2970		" "	--	11.0	-		-11.0		171.8		+2970	-8	632,359	510,368

Y-635,965 X-510,415
HI-Intersect at 172.3

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE	12.4.84	INSTRUMENT MAN	B. Cotcamp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	KWF	LINE NO.	16	PAGE	17	
AREA	Georgia	TOPO MAP	Suwanee - 762	STATE	G.A.	COUNTY	Appling (Wayne)	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.	
									182.8					
199	2640		2° 35'	-2.7°	10.7	-		-10.7		172.1		+2640	-5	632,029 510,371
200	2597		2° 35' 05"	--	9.7	-		-9.7		173.1	4	+2597	-5	631,986 510,371 <small>4y-632,010 x-510,386 4y-4way inter. EL.173.0</small>
201	2310		2° 35'	--	11.1	-		-11.1		171.7		+2310	-5	631,699 510,371
202	1980		" "	--	10.9	-		-10.9		171.9		+1980	-4	631,369 510,372
203	1650		" "	--	16.7	-		-10.7		172.1		+1650	-3	631,039 510,373
204	161320		" "	-2.7	10.0	-		-10.0		172.8		+1320	-3	630,709 510,373
205	990		" "	--	8.2	-		-8.2		174.6		+990	-2	630,379 510,374
206	660		" "	--	8.2	-		-8.2		174.6		+660	-1	630,049 510,375
207	330		" "	--	6.1	-		-6.1		176.7		+330	-1	629,719 510,375
208	0				5.1	-		-5.1		177.7	π	0	0	629,389 510,376
209	330		182° 50'	-2.7°	6.0	-		-6.0		176.8		-330	-1	629,059 510,375
210	660		" "	--	6.2	-		-6.2		176.6		-660	-2	628,729 510,374
211	990		" "	--	5.9	-		-5.9		176.9		-990	-2	628,399 510,374
212	1320		" "	--	5.2	-		-5.2		177.6		-1320	-3	628,069 510,373
213	1650		" "	--	12.8	TH	+8.3	-4.5		178.3		-1650	-4	627,739 510,372
214	1980		" "	--	5.7	-		-5.7		177.1		-1980	-5	627,409 510,371
215	2093		182° 40' 55"	--	6.0	-		-6.0		176.8	4	-2093	+1	627,297 510,377 <small>4y-627,510 x-510,390 4y-T-intersect EL.177.0</small>
216	2310		182° 50'	--	8.1	-		-8.1		174.7		-2310	-5	627,079 510,371
217	2640		" "	--	11.2	-		-11.2		171.6		-2640	-6	626,749 510,370
218	2970		" "	--	13.4	-		-13.4		169.4		-2970	-7	626,419 510,369

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
12-4-84		B. Cotnam		K. Greenfield		6834		-B.C.		16		18				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
GEORGIA		Surrey		G.A.		Appling/Wayne								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
									182.8							
217	3300		182° 50'	-2.7°	10.0	90° 04'	-3.8	-13.8	13.53	169.0		-3300	-8	626,089	510,368	
218	3629		182° 46' 13"	--	9.7	90° 04'	-4.2	-13.9		TP	169.3		-3629	-4	625,760	510,372
218	3629				15.2	270° 02'	+2.1	-13.1		TP						
	2640		2° 44' 18"	--	+5.3	-		+5.3	503,194.3			-2640	-2			
	2640				+4.6	270°		+4.6		BS						
219	2310		2° 41'	-2.7°	10.0	89° 50'	+6.7	-3.3		171.0		+2310	-1	625,430	510,371	
14	2236		2° 48' 51"	--	8.8	89° 50'	+6.5	-2.3		172.0	14	+2236	+4	625,356	510,374	
220	1980		2° 41'	--	8.6	89° 50'	+5.8	-2.8		171.5		+1980	-1	625,100	510,369	
221	1650		--	--	8.8	89° 50'	+4.8	-4.0		170.3		+1650	±0	624,770	510,370	
222	1320		--	--	9.1	89° 50'	+3.8	-5.3		169.0		+1320	±0	624,440	510,370	
223	990		--	-2.7°	9.9	89° 50'	+2.9	-7.0		167.3		+990	±0	624,110	510,370	
224	660		--	--	9.3	89° 50'	+1.9	-7.4		166.9		+660	±0	623,780	510,370	
225	330		--	--	6.8	89° 50'	+1.0	-5.8		168.5		+330	±0	623,450	510,370	
226	0				5.1	-		-5.1		169.2	1	0	0	623,120	510,370	
227	330		182° 50'	-2.7°	7.3	89° 50'	+1.0	-6.3		168.0		-330	-1	622,790	510,369	
228	660		--	--	8.2	89° 50'	+1.9	-6.3		168.0		-660	-2	622,460	510,368	
229	990		--	--	9.1	89° 50'	+2.9	-6.2		168.1		-990	-2	622,130	510,368	
230	1320		--	--	7.0	89° 50'	+3.8	-3.2		171.1		-1320	-3	621,800	510,367	
231	1650		--	--	6.2	89° 50'	+4.8	-1.4		172.9		-1650	-4	621,470	510,366	
232	1980		--	--	12.0	89° 50'	+5.8	-6.2		168.1		-1980	-5	621,140	510,365	

14 - 625,350 x - 510,400
14 - note, see 52,173.0

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
12.4.84		B. Cotcamp		K. Greenfield		6834		KWB		16		19			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		Surrency - 7 1/2'		Georgia		Appling / Wayne								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 -	EAST + WEST -		Y
									174.3						
233	2310		182° 50'	-2.7	7.0	-	-7.0			167.3		-2310	-5	620,810	510,365
234	2640		" "	--	7.6	-	-7.6			166.7		-2640	-6	620,400	510,364
TP	2870		182° 55' 28"	-2.9	6.0	-	-6.0				TP	-2870	-1	620,250	510,364
TP	2870				13.6	270 10	+8.3	-5.3	-5.3	168.7	TP				Appling County
	441		30° 28' 40"	--	7.8	-	+7.8				BS	-391	-204		
	441				+10.0	TH	-2.2	+7.8	-176.5		BS				
235	335		26° 45'	-2.9	7.5	-	-7.5			169.0		+306	+135	620,165	510,300
ITP	222		335° 32' 28"	--	5.2	-	-5.2			171.3	TP	+197	-102	620,056	510,063
236	181		334° 00'	--	6.0	-	-6.0			170.5		+158	-57	620,014	510,078
TP	0				5.1	-	-5.1			171.4	TP	0	0	619,859	510,165
237	135		159° 30'	-2.9	5.3	TH	+0.7	-4.6		171.9		-124	+54	619,735	510,210
238	466		165° 10'	--	6.4	TH	+2.3	-4.1		172.4		-444	+142	619,415	510,307
239	796		166° 40'	--	7.7	TH	+4.0	-3.7		172.8		-164	+223	619,095	510,388
240+ TP	1136		168° 01' 55"	--	8.6	TH	+5.7	-2.9			TP	-1093	+291	618,761	510,456
240 TP	1136				8.3	TH 270	+5.7	-2.6	-2.3	173.8	TP				
	981		349° 52' 00"	-2.9	8.2	TH	-4.9	+3.3	x 177.1		BS	-956	+221		
	981				+8.1	TH	-4.9	+3.2			BS				
241	660		350° 50'	--	7.3	TH	+3.3	-4.0		173.1		+645	-133	618,450	510,539
242	330		352° 00'	--	5.8	TH	+1.7	-4.1		173.0		+324	-62	618,129	510,615
243	0				5.1	-	-5.1			172.0	TP	0	0	617,805	510,677

g-620,800 - 510,105
TP - intersect

NOTE - LAST STA. ON DIRT
* THAT WAS USED ON LINE
DISTANCE GAINED FOR WHEN
FLAG WAS REPLACED

* NOTE - STA. 240 -

243 ON DIRT WERE
NOT USED. DUE TO PERMITS
SEE PG. 19A FOR
THOSE STA.

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
12.15.84		B. Cotcamp		K. Greenfield		6834				16		19A				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
GEORGIA		Surrey - 7 1/2		G.A.		Appling / Wayne								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
TK	T-Intersect		y - 620,056 x - 510,063		063	EL. 171.3				171.3	TK				y - 620,056 x - 510,063 TT - Inter. EL. 171.3 From previous survey.	
TT	356		352° 03' 22"	-2.9	7.3	-		+7.3	178.6		TT	-350	+67			
TT	356				5.5	BA	+1.8	+7.3			TT					
236	330		341° 45'	"	6.0	BH									STATIONS WERE MOVED FROM DIRT ROAD TO PAVED ROAD	
237	0				5.1	-		-5.1			T	0	0	619,706	510,130	↓ ↓ ↓ ↓ ↓ ↓ ↓
238	330		168° 50'	-2.9	5.4	88° -										
239	660		" "	"	6.3	88° -										
240	990		168° 54' 15"	"	12.3	88° 10'	+31.7	+19.4		198.0	TP	-960	+237	618,746	510,369	FIRST STA. THAT CABLE WAS PLACED ON DUE TO PERMIT THE LINE THEN STAYED ON DAVENPORT
240	990				9.4	88° 20'	+28.8	+19.4			TP					
	1150		349° 15' 30"	-2.9	10.4	88° 30'	-30.1	-19.7	178.3		BS	-1117	+271			
	1150				7.0	88° 40'	-26.7	-19.7			BS					
241	821		349° 15'	"	3.1	88° 40'	+19.1	+16.0		194.3		+798	-194	618,427	510,446	
242	491		" "	"	7.0	88° 40'	+11.4	+4.4		182.7		+477	-116	618,106	510,524	
243	161		" "	"	6.0	89° 24'	+1.7	-4.3		174.0		+156	-38	617,785	510,602	
T	0				5.1	-		-5.1		173.2	T	0	0	617,629	510,640	
244	169		169° 09'	-2.9	6.0	89° 40'	+1.0	-5.0		173.3		-164	+40	617,465	510,680	
IF	475		167° 29' 45"	"	4.6	-		-4.6		173.7	IF	-458	+126	617,171	510,766	
245	469		175° 30'	"	5.9	-		-5.9		172.4		-465	+60	617,164	510,700	
246	658		202° 27' 50"	"	6.0	-		-6.0		172.3	TP	-620	-220	617,009	510,420	
246	658				9.2	TH	+3.3	-5.9			TP					

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
12-4-84		B. Cotcamp		K. Greenfield		6834		B.C.		16		26			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Georgia		Surrency - 7 1/2'		Georgia		Appling/Wayne								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
									177.1						
244	343		182° 50'	-2.9°	5.8	TH	+1.7	-4.1		173.0		-343	± 0	617,462	510,697
IF	644		174° 31' 03"	-	3.4	-	-	-3.4		173.7	IF	-637	+94	617,168	510,771
245	638		180° 40'	-	5.0	-	-	-5.0		172.1		-638	+25	617,167	510,702
246	837		200° 28' 52"	-	5.0	-	-	-5.0			TP	-798	-253	617,007	510,424
246	837				9.1	TH	+4.2	-4.9		172.2	TP				
	2639		3° 41' 11"	-2.9°	11.4	89° 50'	-7.7	+3.7			BS	-2639	-36		
	2639				+10.9	270° 10'	-7.7	+3.2	+3.5	175.3	BS				
247	2310		3° 10'	-	10.2	89° 50'	+6.7	-3.5		172.2		+2310	+11	616,678	510,399
248	1980		" "	-	11.2	89° 50'	+5.8	-5.4		170.3		+1980	+9	616,348	510,397
249	1650		" "	-	11.9	89° 50'	+4.8	-7.1		168.6		+1650	+8	616,018	510,396
250	1320		3° 10'	-	12.9	89° 50'	+3.8	-9.1		166.6		+1320	+6	615,688	510,394
251	990		" "	-	12.1	89° 50'	+2.9	-9.2		166.5		+990	+5	615,358	510,393
252	660		" "	-	7.9	-	-	-7.9		167.8		+660	+3	615,1028	510,391
253	330		" "	-	5.8	-	-	-5.8		169.9		+330	+2	614,698	510,390
254	0		" "	-	5.1	-	-	-5.1		170.6	X	0	0	614,368	510,388
255	330		183° 12'	-2.9°	5.1	-	-	-5.1		170.6		-330	-2	614,038	510,386
256	660		" "	-	6.4	-	-	-6.4		169.3		-660	-3	613,708	510,385
257	990		" "	-	9.7	-	-	-9.7		166.0		-990	-5	613,378	510,383
258	1320		" "	-	10.4	-	-	-10.4		165.3		-1320	-7	613,048	510,381
259	1650		" "	-	10.1	-	-	-10.1		165.6		-1650	-9	612,718	510,379

1/2 - 517.165 x - 510,775
IF T-intersect

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
12.4.84		B. Cotcamp		K. Greenfield		6834		RW6		16		21				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
GEORGIA		Surrey - 7'02"		G.A.		APPLING WAYNE								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
									175.7							
#	1739		183° 01' 47"	-2.9°	9.6	-		-9.6		166.1	#	-1739	-4	612,629	510,384	# 7 - intersect E.L. 146.1
260	1980		183° 12'	-	9.4	-		-9.4		166.3		-1980	-10	612,389	510,378	
261	2310		-	-	8.8	-		-8.8		166.9		-2310	-12	612,058	510,376	
262	2640		-	-	7.8	-		-7.8		167.9		-2640	-14	611,728	510,374	
263	2969		183° 16' 10"	-	7.6	-		-7.6			TP	-2969	-19	611,399	510,369	
263	2969				7.3	270°		-7.3	-7.4	168.3	TP					
	2901		3° 11' 15"	-2.9°	6.7	-		+6.7	174.6		BS	-2901	-15			
	2901				10.9	270° 06'	-5.1	+5.8	+6.33		BS					
264	2572		3° 11'	-	7.0	-		-7.0		167.6		+2572	+13	611,070	510,367	
265	2242		-	-	9.7	-		-9.7		164.9		+2242	+11	610,740	510,365	
266	1912		-	-	10.9	-		-10.9		163.7		+1912	+7	610,410	510,363	
#	1829		3° 33' 23"	-	11.3	-		-11.3		163.3						
267	1582		3° 11'	-2.9°	10.6	-		-10.6		164.0		+1582	+8	610,080	510,362	
268	1252		-	-	8.1	-		-8.1		166.5		+1252	+6	609,750	510,360	
269	922		-	-	6.3	-		-6.3		168.3		+922	+5	609,420	510,359	
270	592		-	-	6.2	-		-6.2		168.4		+592	+3	609,090	510,357	
271	262		-	-	5.9	-		-5.9		168.7		+262	+1	608,760	510,355	
#	292		5° 17' 01"	-	5.7	-		-5.7		168.9	#	+292	+12	608,790	510,366	# 4 - intersect E.L. 168
π	0				5.1	-		-5.1		169.5	π	0	0	608,498	510,354	
272	71		207° 08'	-2.9°	5.2	89° 50'	+0.2	-5.0		169.6		-65	-29	608,433	510,325	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
12-4-84		B. Cotcamp		K. Greenfield		6834		B.C.		16		22			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Georgia		Surrency-7 1/2'		G.A.		Appling/Wayne								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 -	EAST + WEST -		Y
									174.6						
273	401		207° 08'	-2.6	4.8	89° 50'	+1.2	-3.6		171.0		-365	-167	608,133	510,187
274	731		" "	--	5.2	89° 50'	+2.1	-3.1		171.5		-665	-304	607,833	510,050
14	882		206° 35 01"	--	5.9	89° 50'	+2.6	-3.3		171.3	14	-806	-359	607,692	509,995 14 - 509,980 - 607,690 14 T-Intersect
275	1061		207° 08'	--	7.1	89° 50'	+3.1	-4.0		170.6		-965	-441	607,533	509,913
276	1388		206° 30 06"	--	8.6	89° 50'	+4.0	-4.6	} -4.43		TP	-1269	-562	607,229	509,792
276	1388			--	8.3	270° 10'	+4.0	-4.3			170.2	TP			
	1094		332° 58 00"	-2.6	4.6	-	-	+4.6	} 174.7		BS	-951	+541		
	1094			--	4.4	270 -	-	+4.4				BS			
277	767		332° 23'	--	8.1	TH	+3.8	-4.3		170.4		+663	-386	606,941	509,947
278	437		" "	--	6.8	TH	+2.2	-4.6		170.1		+378	-220	606,656	510,113
279	107		" "	--	5.3	-	-	-5.3		169.4		+92	-54	606,370	510,279
X	0			--	5.1	-	-	-5.1		169.6	X	0	0	606,278	510,333 outside corner
280	227		183° 09'	-2.6	5.6	-	-	-5.6		169.1		-227	-2	606,051	510,331
281	557		" "	--	10.6	89° 52'	+1.3	-9.3		165.4		-557	-5	605,721	510,328
71	534		182° 02 03"	--	7.8	-	-	-7.8		166.9	71	-534	+5	605,744	510,338 71 - 50,325 - 605,735 71 T-Intersect
282	887		183° 09'	--	10.6	-	-	-10.6		164.1		-887	-9	605,391	510,324
283	1217		" "	--	8.1	BM	-6.1	-14.2		160.5		-1217	-12	605,061	510,321
284	1547		" "	--	6.1	BM	-7.7	-13.8		160.9		-1547	-15	604,731	510,318
285	1877		" "	--	12.3	-	-	-12.3		162.4		-1877	-18	604,401	510,315
286	2207		" "	--	12.6	-	-	-12.6		162.1		-2207	-21	604,071	510,312

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
12-8-84		B. Cotcamp		K. Greenfield		6834		KWG		16		23			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		Surrey - 7 1/2		G.A.		Appling / Wayne								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
									174.7						
287	2537		183° 09'	-2.6	12.8	-		-12.8		161.9		-2537	-24	603,741	510,309
288	2867		183° 09' 27"	--	13.2	-		-13.2			TP	-2867	-28	603,411	510,305
288	2867				12.7	270°		-12.7		161.7	TP				
	1032		341° 03' 21"	-- +	10.6	89° 40'	-6.0	+4.6			BS	-960	+379		
	1032				10.4	270° 20'	-6.0	+4.4	+4.5	166.2	BS				
289	895		338° 26' 28"	-2.6	10.0	89° 37'	+6.0	-4.0		162.2	289	+817	-366	603,270	510,318
289	718		335° 30'	--	8.7	89° 40'	+4.2	-4.5		161.7		+639	-327	603,092	510,357
290	388		" "	--	7.1	89° 40'	+2.3	-4.8		161.4		+345	-177	602,798	510,507
291	9259		338° 50'	--	6.1	89° 40'	+0.3	-5.8		160.4		+54	-24	602,507	510,660
π	0				5.1	-		-5.1		161.1	π	0	0	602,453	510,684
292	283		217° 26'	-2.6	6.2	89° 40'	+1.6	-4.6		161.6		-233	-161	602,220	510,523
293	613		" "	--	8.2	89° 40'	+3.6	-4.6		161.6		-504	-349	601,949	510,335
TP	719		215° 22' 22"	--	5.1	-		-5.1		161.1	TP	-605	-389	601,850	510,295
TP	719				8.7	TH	+3.6	-5.1			TP				
	1129		3° 25' 58"	-2.6 +	3.2	-		+3.2			BS	-1129	-16		
	1129				8.8	TH	-5.6	+3.2	164.3		BS				
294	911		3° 40'	--	8.5	TH	+4.6	-3.9		160.4		+911	+17	601,634	510,296
295	581		3° 50'	--	6.0	TH	+2.9	-3.1		161.2		+581	+13	601,304	510,292
296	251		4° 10'	--	5.8	TH	+1.3	-4.5		159.8		+251	+7	600,974	510,286
π	0				5.1	-		-5.1		159.2	π	0	0	600,723	510,279

* 510,315 = 603,275
 T - Inte. Sect E.L. 162.

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE							
12.8.84		B. Cotcamp		K. Greenfield		6834		Keb		16		24							
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER					
GEORGIA		Surrency - 7 1/2		G.A.		Appling/Wayne								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				
									164.3										
297	84		217° 00'	-2.6	5.7	-		-5.7		158.6		-69	-47	600,654	510,232				
41	275		215° 12' 10"	--	5.7	-		-5.7		158.6	41	-232	-148	600,491	510,131				X - 50,070.9 - 600,400 +1 - INTEREST EL. 158.0
298	414		217° 00'	--	6.0	-		-6.0		158.3		-342	-234	600,381	510,045				
299	744		217° 20'	--	6.3	-		-6.3		158.0		-611	-424	600,112	509,855				
TP	833		215° 46' 57"	--	6.4	-		-6.4			TP	-697	-456	600,028	509,823				
TP	833				6.2	270°		-6.2	4.3	158.0	TP	+2							
	1326		348° 57' 05"	-2.6	3.6	-		+3.6			BS	-1289	+313						
	1326				+10.2	TH	-6.6	+3.6	161.6		BS	+2							
300	1092		348° 50'	--	9.2	TH	+5.5	-3.7		157.9		+1061	-260	599,802	509,876				
301	762		" "	--	7.9	TH	+3.8	-4.1		157.5		+740	-181	599,481	509,955				
302	432		" "	--	6.5	TH	+2.2	-4.3		157.3		+420	-103	599,161	510,033				
303	102		" "	--	5.2	TH	+0.5	-4.7		156.9		+99	-24	598,840	510,112				
π	0				5.1	-		-5.1		156.5	π	0	0	598,741	510,136				
304	223		134° 40'	-2.6	4.8	-		-4.8		156.8		-149	+166	598,592	510,302				
305	551		130° 10'	--	5.6	-		-5.6		156.0		-336	+437	598,405	510,573				
TP	677		130° 25' 52"	--	5.1	-		-5.1			TP	-415	+535	598,328	510,671				
TP	677				8.5	TH	+3.4	-5.1		156.5	TP	+2							
	2198		3° 18' 50"	-2.6	+6.1	-		+6.1	162.4		BS	-2198	-27						
	2198				+5.8	270°		+5.8	159.3		BS	+2							
306	1979		3° 20'	--	5.9	-		-5.9		156.5		+1979	+25	598,111	510,669				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
12-8-84		B. Cotcamp		K. Greenfield		6834		KSG		16		25			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Georgia		Surrency - 7 1/2		G.A.		Appling / Wayne								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
									162.4						
307	1650		3° 20'	-2.6	5.0	-		-5.0		159.4		+1650	+21	599,782	510,665
308	1320		" "	" "	10.3	TH	+6.6	-3.7		158.7		+1320	+17	599,452	510,661
309	990		" "	" "	8.9	TH	+5.0	-3.9		158.5		+990	+13	599,122	510,657
310	660		" "	" "	7.3	TH	+3.3	-4.0		158.4		+660	+8	596,792	510,652
311	330		" "	" "	5.9	TH	+1.9	-4.2		158.2		+330	+4	596,463	510,648
312	0				5.1	-		-5.1		157.3	X	0	0	596,132	510,644
#	134		⁸⁶⁰ 183 10 182 22 39	-2.6	5.8	-		-5.8		156.6	#	-134	+1	595,998	510,645
313	330		183° 10'	" "	7.2	-		-7.2		155.2		-330	-3	595,802	510,641
314	660		" "	" "	7.6	-		-7.6		154.8		-660	-7	595,492	510,637
315	990		" "	" "	6.2	-		-6.2		156.2		-990	-10	595,142	510,634
316	1320		" "	" "	5.7	-		-5.7		156.7		-1320	-13	594,812	510,631
317	1651		183° 21' 50"	-2.9	7.6	-		-7.6			TP	-1651	-13	594,483	510,631
317	1651				7.3	270-		-7.3		154.9	TP		+2		
	1496		16 56 05	" "	+11.9	-		+11.9			BS	-1451	-363		
	1496			" "	+11.6	270-		+11.6			BS		+2		
318	1167		16 28	-2.9	11.2	-		-11.2		155.4		+1134	+274	594,168	510,542
319	837		" "	" "	11.8	-		-11.8		154.8		+814	+176	593,848	510,464
320	507		" "	" "	11.0	-		-11.0		155.6		+493	+119	593,527	510,387
321	177		" "	" "	7.4	-		-7.4		159.2		+172	+42	593,206	510,310
X	0				5.1	-		-5.1		161.5	X	0	0	593,034	510,268

X=510,650 Y=596,005
4 WAY J. N. E. EL. 156.

ACROSS STA.

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
12.8.84		B. Cotcamp		K. Greenfield		6834		KWG		16		26				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
GEORGIA		SURRENCY - 7 1/2		G.A.		APPLING (WAYNE)								C. 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
									166.6							
1/4	16		158° 39' 35"	-2.9°	4.9	-		-4.9		161.7	1/4	-15	+7	593,019	510,275	X-510,285 4-593,005 1/4 4 WAY INT, EL. 161.0
322	153		183° 05'	--	6.9	-		-6.9		159.7		-153	-0	592,881	510,268	
323	483		" "	--	9.8	-		-9.8		156.8		-483	-2	592,551	510,266	
324	813		" "	--	11.0	-		-11.0		155.6		-813	-3	592,221	510,265	
325	1143		183° 05'	--	12.8	-		-12.8		153.8		-1143	-4	591,891	510,264	
326	1473		" "	-2.9°	6.3	84	-7.4	-13.7		152.9		-1473	-5	591,561	510,263	
327	1803		" "	--	13.4	-		-13.4		153.2		-1803	-6	591,231	510,262	SURRENCY - 7 1/2 ↑
328	2133		" "	--	9.1	90° 08'	-5.0	-14.1		152.5		-2133	-7	590,901	510,261	K'VILLE - 7 1/2 ↓
329	2463		" "	--	7.1	96° 08'	-5.7	-12.8		153.8		-2463	-8	590,571	510,260	
330	2793		" "	--	7.5	90° 08'	-6.5	-14.0		152.6		-2793	-9	590,241	510,259	
TP	2945		183° 14' 16"	--	6.9	90° 08'	-6.9	-13.8		152.9	TP	-2945	-17	590,091	510,250	
TP	2945			--	6.6	209° 52'	-6.9	-13.5	-13.73		TP	+2	-1			
	997		15° 19' 39"	-2.9°	6.9	-		+6.9			BS	-974	-215			
	997			--	11.9	TU	-5.0	+6.9	159.8		BS	+2	-1			
331	822		15° 10'	--	7.0	-		-7.0		152.8		+803	+175	589,922	510,209	
332	490		14° 00'	--	6.8	-		-6.8		153.0		+481	+94	589,600	510,128	
333	160		8° 50'	--	6.2	-		-6.2		153.6		+159	+17	589,270	510,051	
X	0		" "	--	5.1	-		-5.1		154.7	X	0	0	589,119	510,034	
334	165		164° 00'	--	5.7	-		-5.7		154.1		-156	+53	588,963	510,087	
335	496		163° 50'	--	5.6	-		-5.6		154.2		-469	+162	588,650	510,196	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 12-8-84	INSTRUMENT MAN B. Cotamp	ROD MAN K. Greenfield	PARTY NUMBER 6834	NOTES CHECKED BY KWT	LINE NO. 16	PAGE 27
AREA Georgia	TOPO MAP K'ville - 7 1/2'	STATE G.A.	COUNTY Appling/Lwayne	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
									159.8						
336	827		163° 55' 16"	-2.9°	5.5	-		-5.5			TP	-782	+269	588,339	510,302
336	827				9.7	TH	+4.1	-5.6		154.2	TP	+2	-1		
	2308		2° 54' 17"	"	+5.2	-		+5.2		159.1	BS	-2308	±0		
	2308				+4.7	270°		+4.7		149.3	BS	+2	-1		
337	1980		3° 08'	"	5.3	-		-5.3		153.8		+1980	+8	588,013	510,309
338	1650		"	"	12.9	TH	+8.3	-4.6		154.5		+1650	+7	587,683	510,308
339	1320		"	"	11.2	TH	+6.6	-4.6		154.5		+1320	+5	587,353	510,306
340	990		3° 08'	-2.9°	5.1	-		-5.1		154.0		+990	+4	587,023	510,305
341	660		"	"	5.0	-		-5.0		154.1		+660	+3	586,693	510,304
342	330		"	"	4.9	-		-4.9		154.2		+330	+1	586,363	510,302
343	0				5.1	-		-5.1		154.0	TP	0	0	586,033	510,301
344	330		183° 05'	-2.9°	5.9	-		-5.9		153.2		-330	-1	585,703	510,300
345	660		"	"	7.2	-		-7.2		151.9		-660	-2	585,373	510,299
346	990		"	"	7.8	-		-7.8		151.3		-990	-3	585,043	510,298
347	1320		"	"	9.8	-		-9.8		149.3		-1320	-4	584,713	510,297
15	1444		182° 50' 16"	-2.9°	9.8	-		-9.8		149.3	TP	-1444	+2	584,589	510,303
348	1650		183° 05'	"	10.3	-		-10.3		148.8		-1650	-5	584,383	510,296
349	1980		"	"	10.4	-		-10.4		148.7		-1980	-6	584,053	510,295
350	2310		"	"	10.2	-		-10.2		148.9		-2310	-7	583,723	510,294

* 584,590 - 584,590
IF T - intersect EL 1480

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
12-13-84		B. Cotcamp		K. Greenfield		6834		KGF		16		28				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
GEOR91A		K.ville - 7 1/2'		G.A.		Appling								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
									159.1							
1/4	2535		182° 54' 47"	-29°	8.0	-		-8.0			TP	-2535	-1	583,500	510,300	* 510,300 y - 583,500 1/4 way intersec. 400'2 y - 428' corr. x - 24'
1/4	2535				7.5	270°		-7.5	-7.83	151.3	TP		"			
	2743		92° 32' 47"	-29°	10.4	89° 50'	-8.0	+2.4	153.5		BS	-17	-2743			2743' offset west between sta. 350+351
	2743				14.8	270° 16'	-12.8	+2.0	152.5		BS					
1/4	0				5.1	-		-5.1		148.4	TP	0	0	583,483	507,557	y - 583,485 x - 507,585 1/4 Y - Intersect
351	101		189° 44'	-29°	7.2	-		-7.2		146.3		-100	-12	583,383	507,545	
352	431		" "	" "	9.9	-		-9.9		143.6		-428	-51	583,055	507,506	
353	761		" "	" "	7.9	-		-7.9		145.6		-756	-91	582,727	507,466	
354	1091		" "	" "	5.0	-		-5.0		148.5		-1083	-130	582,400	507,427	
355	1421		" "	" "	6.2	-		-6.2		147.3		-1411	-169	582,072	507,388	
356	1751		189° 44'	-29°	7.2	-		-7.2		146.3		-1739	-208	581,744	507,349	
357	2081		" "	" "	10.4	-		-10.4		143.1		-2066	-248	581,417	507,309	
358	2411		" "	" "	10.4	-		-10.4		143.1		-2294	-287	581,089	507,270	
359	2741		" "	" "	10.3	-		-10.3		143.2		-2722	-326	580,761	507,231	
TP	3011		189° 24' 18"	" "	7.3	-		-7.3		146.2	TP	-2992	-341	580,491	507,216	
TP	3011				7.2	270°		-7.2			TP					
	1010		4° 38' 37"	-29°	5.8	89° 20'	-11.7	-5.9	140.2		BS	-1009	-31			
	1010				5.6	270° 40'	-11.7	-6.1	140.2		BS					
360	950		4° 50'	" "	11.2	89°	+16.6	+5.4		145.6		+949	+32	580,431	507,217	
361	620		" "	" "	8.6	89°	+10.8	+2.2		142.4		+620	+21	580,102	507,206	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE							
12.13.84		B. Cotcamp		K. Greenfield		6834		KLG		16		29							
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER					
Georgia		Kville - 7 1/2		G.A.		Appling								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				
									140.2										
362	270		4° 50'	-2.9°	6.8	89°	+5.1	-1.7		138.5		+290	+10	579.772	507.195				
X	0				5.1	-		-5.1		135.1	X	0	0	579.482	507.185				
363	46		191° 30'		6.6	89°	+0.7	-5.9		134.3		-39	-10	579.443	507.175				
TP																			
TP	64		184° 09' 35"		5.9	-		-5.9		134.2	TP	-64	-1	579.418	507.184				4-579.418 x -507.205 TP T-Intersect EL.133.0
TP	64				6.3	TH	+0.3	-6.0		131.0	TP								2138 (SCREEN) OFFSET WEST BETWEEN 363+364 4 WAY INTERSECT
K	4 WAY INTERSECT		FL. 131, 3-579.110 x -505.090		5.8	TH	-3.2	+2.6		133.6	#			579.110	505.090				
#	635		339° 33' 56"	-2.9°	5.8	TH	-3.2	+2.6			#	-583	+252						
#	635				13.7	89°	-11.1	+2.6			#	-2	+1						
364	330		339° 50'		5.8	TH	+1.7	-4.1		129.5		+304	-129	578.829	505.214				
365	0				5.1	-		-5.1		126.5	X	0	0	578.525	505.343				
366	330		166° 40'	-2.9°	6.0	TH	+1.7	-4.3		129.3		-317	+92	578.208	505.435				
367	660		165° 05'		7.0	TH	+3.3	-3.7		129.9		-628	+202	577.897	505.545				
368	988		162° 25'		5.6	-		-5.6		128.0		-926	+346	577.599	505.689				
369	1315		160° 30'		7.1	-		-7.1		126.5		-1216	+501	577.309	505.844				
TP	1535		161° 15' 16"		6.8	-		-6.8		126.9	TP	-1427	+566	577.096					
TP	1535				6.6	270°		-6.6			TP	-2	+1		505.910				
	769		13° 13' 27"	-2.9°	14.2	-		+14.2		141.1	BS	-757	-138						
	769				10.3	BH	+3.8	+14.1			BS	-2	+1						
370	655		13° 29' 20"		9.3	90° 20'	-3.8	-13.1		128.0	#	+644	+120	576.981	505.893				3-576.935 x -505.900 Bridge FL.127.0

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
12-13-84		B. Cotcamp		K. Greenfield		6834		KWL		16		30			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Georgia		K.ville - 7 1/2		G.A.		Appling								U. 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
									141.1						
371	329		6° 25'	-2.9	10.3	96° 20'	-1.9	-12.2		128.9		+328	+20	576.665	505,799
372	0				5.1	-		-5.1		136.0	π	0	0	576.337	505,773
373	330		182° 10'	-	3.8	88° 50'	+6.7	+2.9		144.0		-330	+4	576.007	505,777
374	660		-	-	7.8	88° 50'	+13.4	+5.6		146.7		-660	+8	575.677	505,781
375	990		-	-	12.9	88° 50'	+20.2	+7.3		148.4		-990	+13	575.347	505,786
376	1321		182° 17' 40"	-	8.1	89° 20'	+15.4	+7.3		148.6	TP	-1321	+14	575.014	505,788
376	1321				7.8	270° 46'	+15.4	+7.6	+7.53		TP	-2	+1		
	2121		333° 09' 24"	-3.1	11.9	TH	-10.6	+1.3	147.8		BS	-1838	+1059		
	2121				11.6	TH 270	-10.6	+1.0	142.3		BS	-2	+1		
377	1861		327° 20'	-	10.3	TH	+9.3	-1.0		148.8		+1510	-1038	574.684	505,760
378	1608		320° 15'	-	9.9	TH	+8.0	-1.9		147.9		+1179	-1094	574.353	505,754
379	1318		315° 35'	-	9.2	TH	+6.6	-2.6		147.2		+890	-972	574.064	505,876
11..	1205		315° 45' 40"	-	1.7	-		-1.7		148.1	11..	+817	-886	573.991	505,962
380	990		315° 00'	-3.1	8.6	TH	+5.0	-3.6		146.2		+661	-737	573.835	506,111
381	660		-	-	5.9	TH	+3.3	-2.6		147.2		+441	-491	573.615	506,357
382	330		314° 00'	-	4.9	TH	+1.7	-3.2		146.6		+216	-243	573.390	506,599
π	0				5.1	-		-5.1		144.7	π	0	0	573.174	506,848
383	27		234° 40'	-3.1	6.2	-		-6.2		143.6		-17	-21	573.157	506,827
384	354		204° 55'	-	9.4	-		-9.4		140.4		-329	-132	572.845	506,716
385	684		205° 30'	-	10.3	-		-10.3		139.5		-632	-261	572.542	506,637

*-573.965 x -505,790
11.. + 202 line EL. 148.0

*-573.185 x -506,870
π.. intersect

ACROSS STA.

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
12-13-84		B. Cotcamp		K. Greenfield		6834		KWG		16		31			
AREA		TOPO. MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Georgia		K. VILLE - 7 1/2		G.A.		Appling								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
									149.8						
386	1014		206° 10'	-3.1°	7.5	-		-7.5		142.3		-933	-397	572,241	506,451
387	1342		205° 50'	-	10.9	TH	+6.7	-4.2		145.6		-1238	-519	571,936	506,329
388	1669		204° 24 04	-	8.8	TH	+8.3	-0.5		149.5	TP	-1555	-606	571,617	506,243
388	1669				8.3	TH 20'	+8.3	± 0.0	-0.3		TP		+1		
	794		19° 19 42	-3.1°	10.0	TH	-4.0	+6.0	155.4		BS	-762	-222		
	794				9.8	TH 20'	-4.0	+5.8	159.3		BS	-2	+1		
389	463		21° 30'	-	5.8	-		-5.8		149.6		+439	+146	571,292	506,168
390	133		19° 25'	-	5.0	TH	+0.7	-4.3		151.1		+128	+37	570,981	506,059
π	0				5.1	-		-5.1		150.3	π	0	0	570,853	506,022
391	192		185° 35'	-3.1°	4.9	-		-4.9		150.5		-192	-8	570,661	505,014
392	521		-	-	7.0	TH	+2.6	-4.4		151.0		-521	-23	570,332	505,999
393	851		-	-	8.1	TH	+4.3	-3.8		151.6		-850	-37	570,003	505,985
394	1181		185° 31 38	-	4.3	-		-4.3		151.1	TP	-1180	-50	569,671	505,972
394	1181				10.2	TH	+5.9	-4.3			TP	-2			
	2812		5° 54 14	-3.1°	13.9	89° 30'	-24.5	-10.6	140.3		BS	-2809	-138		
	2812				13.4	270° 30'	-24.5	-11.1	-10.8		BS	-2			
395	2483		6° 08'	-	11.5	89° 30'	+21.7	+10.2		150.5		+2480	+131	569,340	505,965
396	2153		-	-	9.0	89° 30'	+18.8	+9.8		150.1		+2150	+114	569,010	505,948
397	1823		-	-	7.8	89° 30'	+15.9	+8.1		148.4		+1820	+96	568,680	505,930
398	1493		-	-	6.8	89° 30'	+13.0	+6.2		146.5		+1491	+79	568,351	505,913

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
12.13.84		B. Cotcamp		K. Greenfield		6834		KWF		16		32			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		Kville-7 1/2'		G.A.		Appling								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
									140.3						
399	1163		6° 14'	-3.1°	8.8	89° 30'	+10.2	+1.4		141.7		+1161	+64	568,021	505,898
400	833		" "	" "	10.3	89° 30'	+7.3	-3.0		137.3		+832	+46	567,692	505,880
401	503		" "	" "	11.2	89° 30'	+4.4	-6.8		133.5		+502	+27	567,362	505,861
402	173		5° 00'	" "	7.0	-		-7.0		133.3		+173	+6	567,033	505,840
TP	0		" "	" "	5.1	-		-5.1		135.2	TP	0	0	566,860	505,834
403	161		143° 10'	-3.1°	5.4	-		-5.4		134.9		-123	+103	566,737	505,937
404	491		" "	" "	5.8	-		-5.8		134.5		-376	+315	566,484	506,149
405	821		" "	" "	6.2	-		-6.2		134.1		-630	+527	566,230	506,361
406	1151		" "	" "	8.8	-		-8.8		131.5		-883	+739	565,977	506,573
TP	1251		143° 21' 14"	" "	9.0	-		-9.0			TP	-963	+798	565,896	506,632
TP	1251		" "	" "	8.9	210'		-8.9		131.4	TP	-	-		
	894		352° 43' 33"	-3.1°	4.7	-		+4.7	136.1		BS	-879	+161		
	894		" "	" "	+9.2	TH	-4.5	+4.7			BS				
407	660		352° 33'	" "	6.0	-		-6.0		130.1		+649	-121	565,666	506,672
IF	631		353° 10' 59"	" "	5.9	-		-5.9		130.2	IF	+622	-109	565,639	506,684
408	330		352° 33'	" "	6.7	-		-6.7		129.4		+324	-60	565,341	506,733
409	0		" "	" "	5.1	-		-5.1		131.0	TP	0	0	565,017	506,793
410	330		182° 05'	-3.1°	7.0	89° -	+5.8	-1.2		134.9		-350	+6	564,687	506,799
411	660		" "	" "	7.3	89° -	+11.5	+4.2		140.3		-660	+12	564,357	506,805
412	990		" "	" "	9.0	89° -	+17.3	+8.3		144.4		-970	+18	564,027	506,811

By 365,625 x - 506,700
F.T. intersect

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
12-13-84		B. Cotcamp		K. Greenfield		6834		KVG		16		33			
AREA		TOPO MAR		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		Kville-1/2'		GA.		Appling								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
									136.1						
413	1317		181° 04' 02"	-3.1°	13.0	89° 10'	+9.1	+6.1	142.2	TP	-1316	+47	563,701	506,840	
413	1317				9.2	89° 20'	+15.3	+6.1							TP
	1941		311° 53' 58"	--	10.9	89° 20'	-22.6	-11.7	130.4	BS	-1216	+1513			
	1941				+10.6	270° 40'	-22.6	-12.0							BS
414	1613		311° 25'	-3.1°	7.2	89° 20'	+18.8	+11.6	142.0		+1000	-1266	563,485	507,087	
415	1283		311° 15'	--	6.8	89° 20'	+14.9	+8.1	138.5		+793	-1009	563,278	507,344	
416	953		" "	--	4.6	89° 20'	+11.1	+6.5	136.9		+589	-749	563,074	507,604	
417	623		" "	--	4.6	89° 20'	+7.2	+2.6	133.0		+385	-490	562,870	507,863	
418	293		" "	--	6.0	89° 20'	+3.4	-2.6	127.8		+181	-230	562,466	508,123	
Σ	0				5.1	-	-5.1		125.3	TP	0	0	562,485	508,353	
≠	17		104° 41' 58"	-3.1°	5.5	89° 20'	+0.2	-5.3	125.1	≠	-3	+17	562,482	508,370	1/4" - 562,475 x - 508,380 1/4" W. WAY SW. 1/4
419	57		225° 47'	--	5.2	-		-5.2	125.2		-42	-39	562,443	508,314	
420	387		" "	--	5.9	-		-5.9	124.5		-284	-262	562,261	508,091	
421	717		" "	--	11.6	84°	-3.6	-15.2	115.2		-527	+486	561,958	507,867	
422	1047		" "	--	12.6	90° 30'	-9.1	-21.7	108.7		-770	-710	561,715	507,643	
423	1377		" "	--	10.7	90° 30'	-12.0	-22.7	107.7		-1012	-934	561,473	507,419	
424	1707		" "	--	7.9	90° 30'	-14.9	-22.8	107.6		-1255	-1157	561,230	507,196	
425	2037		225° 59' 14"	--	5.5	90° 30'	-17.8	-23.3	-23.0	107.4	TP	-1492	-1386	560,993	506,967
425	2037				5.0	269° 30'	-19.8	-22.8							

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
12-13-84		B. Cotcamp		K. Greenfield		6834		B.C.		16		34			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		Kville-7 1/2'		G.A.		APPLING								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
										107.4					
	1643		53° 42' 33"	-3.1	+8.6	84	+8.2	+16.8	124.0		BS	-1043	-1270		
	1643				+8.2	84 210	+8.2	+16.4		+16.6		BS			
426	1315		53° 30'	"	10.2	90° 20'	-7.7	-17.9		106.1		+838	+1013	560,788	506,710
427	986		52° 20'	"	10.2	90° 20'	-5.7	-15.9		108.1		+644	+747	560,594	506,444
428	658		48° 30'	"	8.0	90° 20'	-3.8	-11.8		112.2		+462	+469	560,412	506,166
#1	645		50° 38' 46"	"	7.2	90° 20'	-3.8	-11.0		113.0	#1	+435	+476	560,385	506,173
429	330		45° 10'	"	4.6	90° 20'	-1.9	-6.5		117.5		+245	+221	560,195	505,918
430	0				5.1	-		-5.1		118.9	X	0	0	559,950	505,697
431	330		214° 10'	-3.1	5.0	90° 20'	-1.9	-6.9		117.1		-283	-170	559,667	505,527
432	656		209° 50'	"	7.6	89° 50'	+1.9	-5.7		118.3		-586	-295	559,364	505,402
TP	827		207° 00' 21"	-2.9	4.6	89° 50'	+2.4	-2.2			TP	-755	-338	559,195	505,359
TP	827				4.5	270° 10'	+2.4	-2.1		121.9	TP				
	1141		1° 52' 13"	-2.9	+11.8	91	+19.9	+31.7	153.6		BS	-1141	+21		
	1141				+11.7	269°	+19.9	+31.6			BS				
433	989		0° 05'	"	10.2	91	-17.3	-27.5		126.1		+988	-49	559,042	505,331
434	660		357° 20'	"	7.0	90° 46'	-8.8	-15.8		137.8		+657	-64	558,711	505,316
#1	453		359° 00' 50"	"	10.0	-		-10.0		143.6	#1	+452	-31	558,506	505,349
435	330		359° 20'	"	8.0	-		-8.0		145.6		+328	-32	558,382	505,348
436	0				5.1	-		-5.1		148.5	X	0	0	558,054	505,386

#1 - 560,310 X - 506,195
#1 3 - INTG. EL. 113.0

#1 - 558,510 X - 505,300
#1 4 WAY EL. 144.0

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
12-13-84		B. Cotnam		K. Greenfield		6834		KUC / DS		16	35				
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
GEORGIA		K'ville-7 1/2'		G.A.		Appling					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
									153.6						
437	330		177° 30'	-29'	6.3	-		-6.3		147.3		-329	+31	557.725	505.411
438	660		" "	" "	7.3	-		-7.3		146.3		-657	+62	557.377	505.442
439	990		" "	" "	8.2	-		-8.2		145.4		-986	+93	557.068	505.473
440	1320		" "	" "	8.3	-		-8.3		145.3		-1314	+124	556.740	505.504
1F	1432		176° 53' 41"	-29'	8.3	-		-8.3		145.3	1F	-1424	+150	556.630	505.530
441	1650		177° 30'	" "	8.2	-		-8.2		145.4		-1643	+155	556.411	505.535
442	1980		" "	" "	7.8	-		-7.8		145.8		-1771	+186	556.083	505.566
443	2310		" "	" "	7.8	-		-7.8		145.8		-2300	+217	555.754	505.597
444	2639		177° 24' 39"	" "	7.8	-		-7.8			TP	-2627	+252	555.427	505.632
444	2639				7.3	270'		-7.3	-753	146.1	TP				
	2968		348° 53' 04"	-29'	12.1	TH 270'	+14.8	-2.7	143.1		BS	-2880	+719		
	2968				+11.4	TH 270'	-14.8	-3.4	-303		BS				
445	2639		348° 35'	" "	11.6	TH	+13.2	+1.6		144.7		+2557	-653	555.104	505.698
446	2309		" "	" "	11.2	TH	+11.5	+0.3		143.4		+2237	-571	554.784	505.780
447	1979		349° 00'	" "	9.8	TH	+9.9	+0.1		143.2		+1921	-475	554.468	505.876
448	1649		349° 20'	" "	9.0	TH	+8.2	-0.8		142.3		+1603	-387	554.150	505.964
449	1319		349° 55'	-29'	10.3	TH	+6.6	-3.7		139.4		+1285	-296	553.832	506.055
450	990		350° 05'	" "	6.8	-		-6.8		136.3		+965	-220	553.512	506.131
451	660		349° 30'	" "	7.0	-		-7.0		136.1		+642	-153	553.189	506.198
452	330		347° 30'	" "	6.3	-		-6.3		136.8		+318	-88	552.865	506.263

556.630 X = 505.530
 177-24-39 EL. 146.0
 HORIZ 5--19'
 CORR X = +7'

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE					
12.14.84		B. Cotcamp		K. Greenfield		6834		KWL / D.S.		16		36					
AREA		TOPG MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER			
GEORGIA		K. Ville - 7 1/2'		G.A.		Appling								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	
453	0				5.1	-		-5.1		138.0	TP	0	0	552,547	506,351	Access STA.	
454	331		176° 25'	-2.9	4.2	TH	+1.7	-2.5		140.6		-329	+37	552,218	506,388		
455	661		175° 25'	-	5.7	TH	+3.3	-2.4		140.7		-655	+86	551,892	506,437		
IF	515		174° 15' 08"	-	1.6	-		-1.6		141.5	IF	-509	+77	552,038	506,428	g = 552,055 x - 506,480 IF T-INTERSECT EL. 142.0	
456	990		175° 05'	-	6.1	-		-6.1		137.0		-981	+135	551,566	506,486		
457	1320		" "	-2.9	8.2	-		-8.2		134.9		-1308	+180	551,239	506,531		
458	1650		" "	-	6.4	-		-6.4		136.7		-1635	+224	550,912	506,575		
459	1980		175° 05'	-	11.3	TH	+9.9	-1.4		141.7		-1962	+269	550,585	506,620		
460	2310		" "	-	11.7	TH	+11.6	-0.1		143.0		-2289	+314	550,258	506,665		
461	2640		" "	-2.9	12.9	TH	+13.2	-0.3		142.8		-2615	+359	549,932	506,710		
462	2970		" "	-	6.3	89° 52'	+6.9	+0.6		143.7		-2942	+404	549,605	506,755		
463	3300		" "	-	6.7	89° 52'	+7.7	+1.0		144.1		-3269	+449	549,278	506,800		
464	3630		175° 20'	-	8.2	89° 52'	+8.5	+0.3		143.4		-3578	+478	548,949	506,829		
465	3960		175° 28' 03"	-	9.6	89° 52'	+9.2	-0.4	} *145.9		TP	-3927	+512	548,620	506,863		
465	3960		" "	-	8.9	276° 08'	+9.2	-0.3			142.8	TP					
	981		10° 00' 35"	-2.9	6.0	89° 50'	-2.9	+3.1				BS	-973	-121			
	981		" "	-	5.9	276° 10'	-2.9	+3.0			BS						
466	660		14° 50'	-	7.8	TH	+3.3	-4.5		141.4		+646	+136	548,293	506,878		
467	330		16° 25'	-	5.3	-		-5.3		140.6		+321	+77	547,968	506,819		
468	0				5.1	-		-5.1		140.8	TP	0	0	547,647	506,742		

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 12-14-84	INSTRUMENT MAN B. Cotcamp	ROD MAN K. Greenfield	PARTY NUMBER 6834	NOTES CHECKED BY KWC/D.S.	LINE NO. 16	PAGE 37
AREA GEORGIA	TOP MAP Kville - 7 1/2	STATE GA.	COUNTY Appling	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.	
									145.9					
469	330		196° 05'	-2.9'	4.7	-		-4.7		141.2		-321	-75	547,326 506,667
469	425		194° 37' 05"	--	4.2	-		-4.2		141.7	TP	-416	-86	547,231 506,656
470	660		196° 10'	--	7.8	TH	+3.3	-4.5		141.4		-642	-151	547,005 506,591
471	989		195° 40' 02"	--	5.2	-		-5.2	-5.0	140.9	TP	-965	-219	546,682 506,523
471	989				4.9	270°		-4.9			TP			
	2968		11° 21' 03"	-2.9'	8.0	TH	-14.8	-6.8			BS	-2936	-436	
	2968				+7.7	TH 210°	-14.8	-7.1	134.0		BS			
472	2640		11° 21'	--	8.2	TH	+13.2	+5.0		139.0		+2611	+388	546,357 506,475
473	2310		" "	--	8.0	TH	+11.6	+3.6		137.6		+2285	+339	546,031 506,426
474	1980		" "	--	7.6	TH	+9.9	+2.3		136.3		+1959	+291	545,705 506,378
475	1650		" "	--	7.6	TH	+8.3	+0.7		134.7		+1632	+242	545,378 506,329
476	1320		11° 21'	-2.9'	8.1	TH	+6.6	-1.5		132.5		+1306	+194	545,052 506,281
477	990		" "	--	5.5	TH	+5.0	-0.5		133.5		+979	+145	544,925 506,232
478	660		" "	--	9.7	89°	+11.5	+1.8		135.8		+653	+97	544,399 506,184
479	330		" "	--	5.5	89°	+5.8	+0.3		134.3		+326	+48	544,072 506,135
480	0				5.1	-		-5.1		128.9	X	0	0	543,946 506,087
481	330		191° 15'	-2.9'	9.7	91°	-5.8	-11.5		122.5		-327	-48	543,419 506,039
482	660		" "	--	5.7	91°	-11.5	-17.2		116.8		-653	-96	543,093 505,991
483	990		" "	--	4.8	91°	-17.3	-22.1		111.9		-980	-144	542,766 505,943
484	1320		" "	--	3.0	91°	-23.0	-26.0		108.0		-1306	-192	542,440 505,895

4-547,225X-506,650
at 4-way Intersect EL. 14'

Kville - 7 1/2 T
Patterson - 7 1/2 J

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	12.14.84	INSTRUMENT MAN	B. Cotcamp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	KUR / D.S.	LINE NO	16	PAGE	38
AREA	GEORGIA	TOPO MAP	Patterson - 7 1/2'	STATE	G.A.	COUNTY	Appling	TWP		PARTY MANAGER	W. Cassidy		

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS	
												LAT.	DEP.	Y	X				
									134.0										
485	1650		91° 35'	-2.9°	11.5	90° 30'	-14.4	-25.9		108.1		-1631	-249	542,115	505,838				
486	1980		91° 45'	-	4.0	90° 30'	-77.3	-21.3		112.7		-1956	-305	541,790	505,782				
487	2309		91° 39' 26"	-	7.8	90° 14'	-9.4	-17.2			TP	-2282	-352	541,464	505,735				
487	2309			-	7.7	269° 46'	-9.4	-17.1		116.9	TP								
	1649		13° 50' 13"	-2.9°	3.5	TH	-8.2	-4.7		112.2	BS	-1619	-313						
	1649			-	+3.4	TH 270°	-8.2	-4.8			BS								
488	1319		13° 40'	-	8.0	89° 30'	+11.5	+3.5		115.7		+1296	+246	541,141	505,668				
489	989		13° 50'	-	6.4	89° 30'	+8.6	+2.2		114.4		+971	+188	540,816	505,610				
491	939		14° 43' 50"	-	6.1	89° 30'	+8.2	+2.1		114.3	TP	+919	+193	540,764	505,615				Y=540,764 X=505,610
490	659		14° 45'	-	5.8	89° 30'	+5.8	±0.0		112.2		+645	+135	540,490	505,557				
491	330		16° 35'	-	5.5	89° 30'	+2.9	-2.6		109.6		+321	+78	540,166	505,500				
492	6			-	5.1	-	-	-5.1		107.0	TP	0	0	539,845	505,422				
493	330		202° 25'	-2.9°	7.3	-	-	-7.3		104.9		-311	-110	539,534	505,312				
494	660			-	8.7	-	-	-8.7		103.5		-622	-220	539,223	505,202				
495	989		199° 23' 41"	-	10.7	-	-	-10.7			TP	-948	-281	538,897	505,141				
495	989			-	10.6	270°	-	-10.6		101.6	TP								
	1559		344° 52' 49"	-	5.3	89° 48'	-5.4	-0.1		101.5	BS	-1483	+482						
	1559			-	+5.2	270° 12'	-5.4	-0.2			BS								
496	1232		342° 45'	-	10.8	89° 30'	+10.8	±0.0		101.5		+1157	-424	538,571	505,198				
497	902		-	-	9.0	89° 30'	+7.9	-1.1		100.4		+847	-311	538,261	505,312				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
12.14.84		B. Cotcamp		K. Greenfield		6834		KUL / D.S.		16		39			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Georgia		Patterson - 7 1/2		G.A.		Appling / Pierce								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 -	EAST + WEST -		Y
									101.5						
498	572		343° 05'	-2.9°	6.0	89° 30'	+5.0	-1.0		100.5		+538	-194	537,952	505,429
499	243		342° 45'	"	4.8	89° 30'	+2.1	-2.7		98.8		+228	-84	537,642	505,539
π	0				5.1	-		-5.1		96.4	π	0	0	537,414	505,623
500	88		156° 50'	-2.9°	4.5	89° 30'	+0.8	-3.7		97.8		-79	+39	537,235	505,662
π	136		147° 36' 51"	"	5.6	89° 30'	+11.9	-4.4		97.1	π	-111	+79	537,303	505,702
501	390		197° 12'	"	9.8	89° 30'	+3.4	-6.4		95.1		-378	-96	537,036	505,527
502	715		199° 19'	"	7.6	-		-7.6		93.9		-686	-202	536,728	505,421
503	1045		199° 30' 41"	"	8.3	-		-8.3			TP	-1001	-299	536,413	505,324
503	1044.5				8.2	270°		-8.2		93.3	TP				
	3959		18° 49' 51"	-2.9°	+11.9	-		+11.9	105.1		BS	-3807	-1087		
	3959				+11.6	270°		+11.6	118 2/3		BS				
504	3628		18° 55'	"	11.9	-		-11.9		93.2		+3187	+1001	536,093	505,238
505	3299		18° 50'	"	11.7	-		-11.7		93.4		+3172	+906	535,778	505,143
506	2769		18° 44'	"	11.4	-		-11.4		93.7		+2856	+810	535,462	505,047
507	2639		18° 46'	"	11.3	-		-11.3		93.8		+2540	+717	535,146	504,954
508	2309		18° 32'	-2.9°	11.2	-		-11.2		93.9		+2224	+622	534,830	504,859
509	1979		18° 25'	"	11.2	-		-11.2		93.9		+1907	+529	534,513	504,766
JL	1887		18° 41' 27"	"	11.2	-		-11.2		93.9	JL	+1816	+514	534,422	504,751
510	1649		18° 12'	"	11.5	-		-11.5		93.6		+1591	+435	534,199	504,672
511	1319		17° 58'	"	11.1	-		-11.1		94.0		+1274	+343	533,880	504,580

Appling County
Pierce County

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
12.14.84		B. Cotcamp		K. Greenfield		6834		KWC / B.S.		16	40				
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
Georgia		Patterson - 7 1/2'		G.A.		Pierce					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
									105.1						
512	989		17° 32'	-2.9	11.3	-		-11.3		93.8		+957	+250	533,563	504,487
513	660		16° 32'	--	9.8	-		-9.8		95.3		+641	+156	533,247	504,393
514	330		14° 20'	--	6.7	-		-6.7		98.4		+323	+65	532,929	504,302
515	0				5.1	-		-5.1		100.0	X	0	0	532,606	504,237
516	330		186° 30'	-2.9	5.5	89° 30'	+2.9	-2.6		102.5		-329	-21	532,277	504,216
517	659		184° 50'	--	7.0	89° 30'	+5.8	-1.2		103.9		-659	-22	531,947	504,215
518	989		184° 25'	--	7.7	89° 30'	+8.6	+0.9		106.0		-989	-26	531,617	504,211
519	1319		184° 10'	--	8.0	89° 30'	+11.5	+3.5		108.6		-1319	-29	531,287	504,208
51	1295		183° 43' 08"	--	7.6	89° 30'	+11.3	+3.7		108.8	di	-1295	-19	531,311	504,218
520	1649		183° 55'	-2.9	7.2	89° 30'	+14.4	+7.2		112.3		-1649	-29	530,957	504,208
521	1979		-	--	6.3	89° 30'	+17.3	+11.0		116.1		-1979	-35	530,627	504,202
522	2309		-	--	5.6	89° 30'	+20.2	+14.6		119.7		-2309	-41	530,297	504,196
523	2639		-	--	4.9	89° 30'	+23.0	+18.1		123.2		-2639	-47	529,967	504,190
524	2969		183° 55' 34"	--	4.2	89° 30'	+25.9	+21.7			TP	-2968	-53	529,638	504,184
524	2969			--	4.1	270° 30'	+25.9	+21.8		126.9	TP				
	2969		4° 03' 35"	-2.9	15.0	-		+15.0	141.9		BS	-2968	-60		
	2969			--	14.9	270°		+14.9			BS				
525	2640		4° 10'	--	13.0	-		-13.0		128.9		+2639	+58	529,309	504,182
526	2310		4° 12'	--	12.6	-		-12.6		129.3		+2309	+52	528,999	504,176
527	1980		4° 20'	--	13.0	-		-13.0		128.9		+1979	+50	528,649	504,174

531,310 x 504,265
531,310 x 504,265
531,310 x 504,265

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
12.14.84		B. Cotcamp		K. Greenfield		6834		KUG, D.S.		16		41			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Georgia		Patterson - 7 1/2'		G.A.		Pierce								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
									141.9						
528	1650		4° 28'	-2.9	13.1	-		-13.1		128.8		+1649	+45	528,319	504,169
529	1320		4° 40'	"	12.2	-		-12.2		129.7		+1319	+41	527,989	504,165
530	990		5° 00'	"	10.2	-		-10.2		131.7		+989	+36	527,659	504,160
531	660		5° 40'	"	7.5	-		-7.5		134.4		+659	+32	527,329	504,156
532	330		8° 15'	"	5.9	-		-5.9		136.0		+329	+31	526,999	504,155
533	0				5.1	-		-5.1		136.8	X	0	0	526,670	504,124
534	330		196° 50'	-2.9	5.7	89° 50'	+1.0	-4.7		137.2		-320	-79	526,350	504,045
#	471		196° 03 26	"	5.1	89° 50'	+1.4	-3.7		138.2	#	-459	-107	526,211	504,017
535	660		197° 43'	"	5.4	89° 50'	+1.9	-3.5		138.4		-638	-169	526,032	503,955
536	990		198° 05'	"	5.6	89° 50'	+2.9	-2.7		139.2		-955	-259	525,745	503,865
537	1320		198° 18'	-2.9	5.5	89° 50'	+3.8	-1.7		140.2		-1273	-351	525,397	503,773
538	1650		" "	"	5.1	89° 50'	+4.8	-0.3		141.6		-1571	-438	525,089	503,686
539	1980		" "	"	5.3	89° 50'	+5.8	+0.5		142.4		-1909	-526	524,961	503,598
540	2310		" "	"	6.1	89° 50'	+6.7	+0.6		142.5		-2227	-613	524,443	503,511
541	2639		198° 08'	"	6.7	89° 50'	+7.7	+1.0		142.9		-2546	-693	524,124	503,431
#	2863		197° 11 17	"	6.7	89° 50'	+8.3	+1.6		143.5	#	-2774	-707	523,896	503,417
542	2966		197° 10 00	"	7.0	89° 50'	+8.6	+1.6			TP	-2875	-731	523,795	503,393
542	2966			"	6.9	270 10	+8.6	+1.7		143.6	TP				
	987		355° 27 56	-2.9	4.6	-		+4.6	148.3		BS	-979	+128		
	987			+9.7	TH	-4.9		+4.8			BS				

Y=526260 X=504,070
T-intersect

Y=523925 X=503,475
controlling EL 144.0

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
12.14.84		B. Cotcamp		K. Greenfield		6834		KWC/DS		16		42			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		Patterson - 7 1/2'		G.A.		Dixie								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
									148.3						
543	659		352° 25'	-2.9°	7.5	TH	+3.3	-4.2		144.1		+648	-120	523,464	503,401
544	330		348° 50'	--	6.3	TH	+1.7	-4.6		143.7		+320	-80	523,136	503,441
545	0				5.1	-		-5.1		143.2	X	0	0	522,916	503,521
546	330		163° 05'	--	6.3	-		-6.3		142.0		-310	+112	522,506	503,633
547	659		159° 40'	--	7.3	-		-7.3		141.0		-606	+260	522,210	503,781
548	986		156° 35'	--	8.0	-		-8.0		140.3		-884	+437	521,932	503,958
549	1315		154° 50' 46"	--	8.9	-		-8.9		139.4	TP	-1160	+618	521,656	504,139
549	1315				2.4	BH	-6.6	-9.0			TP				
	2856		330° 04' 02"	-2.9°	+2.2	-		+2.2			BS	-2400	+1548		
	2856				+1.9	210°		+1.9		141.4	BS				
550	2526		330° 04'	--	10.1	89° 50'	+7.4	-2.7		138.7		+2122	-1370	521,378	504,317
551	2196		-	--	9.7	89° 50'	+6.4	-3.3		138.1		+1845	-1191	521,101	504,496
552	1866		-	--	9.2	89° 50'	+5.4	-3.8		137.6		+1568	-1012	520,824	504,675
553	1536		-	--	9.0	89° 50'	+4.5	-4.5		136.9		+1291	-833	520,537	504,854
554	1206		330° 04'	-2.9°	8.3	89° 50'	+3.5	-4.8		136.6		+1013	-654	520,269	505,033
555	876		--	--	7.0	89° 50'	+2.5	-4.5		136.9		+736	-475	519,992	505,212
556	546		--	--	5.4	89° 50'	+1.6	-3.8		137.6		+459	-296	519,715	505,391
557	218		328° 30'	--	4.8	89° 50'	+0.6	-4.2		137.2		+180	-123	519,436	505,564
X	0				5.1	-		-5.1		136.3	X	0	0	519,256	505,687

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
12.14.84		B. Cotcamp		K. Greenfield		6834		KWG/p.s.		16	43				
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
GEORGIA		Patterson - 7 1/2'		G.A.		Pierce					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
									141.4						
558	123		179° 36'	-2.9	5.2	89° 50'	+0.4	-4.8		136.6		-123	+7	519,133	505.694
559	452		172° 30'	--	6.9	89° 50'	+1.3	-5.6		135.8		-445	+82	518,811	505.769
560	777		175° 20'	--	8.8	89° 50'	+2.3	-6.5		134.9		-770	+102	518,486	505.789
IF	796		174° 40' 16"	--	8.6	89° 50'	+2.3	-6.3		135.1	IF	-788	+114	518,468	505.801
561	1107		177° 00'	-2.9	10.6	89° 50'	+3.2	-7.4		134.0		-1101	+114	518,155	505.801
562	1437		178° 00'	--	12.8	89° 50'	+4.2	-8.6		132.8		-1432	+123	517,824	505.810
563	1766		178° 45'	--	11.2	-		-11.2		130.2		-1761	+128	517,495	505.815
564	2096		179° 05'	--	5.0	BM	-10.5	-15.5		125.9		-2091	+140	517,165	505.827
565	2420		178° 55'	--	11.8	90° 12'	-8.4	-20.2		121.2		-2414	+168	516,842	505.855
TP	2647		177° 44' 42"	--	12.9	90° 14'	-10.8	-23.7			TP	-2636	+238	516,620	505.925
TP	2647			--	12.8	269° 46'	-10.8	-23.6		117.8	TP				
	4061		331° 45' 29"	-2.9	+9.3	TM	-20.3	-11.0		106.7	BS	-3476	+2100		
	4061				+9.0	TM 110	-20.3	-11.3			BS				
566	3959		331° 35'	--	10.5	TM	+19.8	+9.3		116.0		+3382	-2058	516,526	505.967
567	3629		331° 29'	--	12.2	89° 44'	+16.9	+4.7		111.4		+3097	-1892	516,241	506.133
IF	3545		331° 38' 58"	--	11.9	89° 44'	+16.5	+4.6		111.3	IF	+3031	-1839	516,175	506.186
568	3299		331° 35'	--	11.6	89° 44'	+15.3	+3.7		110.4		+2818	-1715	515,962	506.310
569	2969		331° 40'	--	10.8	89° 44'	+13.8	+3.0		109.7		+2539	-1540	515,683	506.485
570	2639			--	9.1	89° 44'	+12.3	+3.2		109.9		+2257	-1368	515,461	506.657
571	2309		331° 45'	--	7.1	89° 44'	+10.7	+3.6		110.3		+1776	-1194	515,120	506.831

IF 518,470 X-505,830
IF 4 W Ag Int.

IF 516,85 X-506,200
IF 7-Enter. 12.112.0

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
12.14.84		B. Cotcamp		K. Greenfield		6834		KUG / pwj.		16	44				
AREA		TOPO MAP	STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER						
GEORGIA		Patterson - 7 1/2'	G.A.	Pierce					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
									106.7						
572	1980		331° 50'	-2.9°	6.0	89° 44'	+9.2	+3.2		109.9	π	+1696	-1022	514,840	507,003
573	1650		332° -	-	8.2	89° 40'	+9.6	+1.4		108.1	π	+1416	-847	514,560	507,178
574	1320		332° 10'	-	8.3	89° 40'	+7.7	-0.6		106.1	π	+1135	-675	514,279	507,350
575	990		332° 40'	-	8.0	89° 40'	+5.8	-2.2		104.5	π	+855	-498	513,999	507,527
576	660		333° 10'	-	6.6	89° 40'	+3.8	-2.8		103.9	π	+573	-327	513,717	507,698
577	330		332° 30'	-	5.4	89° 40'	+1.9	-3.5		103.2	π	+285	-167	513,429	507,858
578	0				5.1	-		-5.1		101.6	π	0	0	513,144	508,025
579	103		329° 11 25"	-2.9°	4.6	89° 40'	+0.6	-4.0		102.7	π	+86	-57	513,230	507,968
579	333		165° 20'	-	7.0	-		-7.0		99.7	π	-317	+101	512,827	508,126
580	663		164° 40'	-	8.3	-		-8.3		98.4	π	-630	+207	512,514	508,232
581	993		-	-	10.1	-		-10.1		96.6	π	-943	+311	512,201	508,326
582	1323		-	-	10.8	-		-10.8		95.9	π	-1257	+414	511,887	508,439
583	1653		-	-	10.3	-		-10.3		96.4	π	-1570	+517	511,574	508,542
584	1983		164° 40'	-2.9°	10.2	-		-10.2		96.5	π	-1883	+620	511,261	508,645
585	2313		-	-	10.2	-		-10.2		96.5	π	-2197	+724	510,947	508,749
586	2643		-	-	10.8	-		-10.8		95.9	π	-2510	+827	510,634	508,852
587	2973		-	-	12.1	-		-12.1		94.6	π	-2824	+930	510,320	508,955
588	3305		164° 49 18"	-2.5°	12.3	-		-12.3		94.6	TP	-3149	+1004	509,994	509,029
588	3305				12.0	210 -		-12.0		94.6	TP	-1			

ACROSS STA.
 4 - 513,200 X - 507,975
 7 - INTER. EL. 102.0

12.13

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
12.18.84		B. Cotamp		K. Greenfield		6834		KWG./D.S.		16		45				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
GEORGIA		PATTERSON - 7 1/2'		G.A.		Pierce								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
									94.6							
	859		9° 46' 46"	-2.5	+5.0	-		+5.0	94.6		BS	-852	-107			
	859			+9.3	TH	-4.3	+5.0			BS	-1	-1				
IF	645		10° 37' 15"	"	4.5	-		-4.5	95.1		IF	+639	+91	509,780	509,012	IF T-INT ₂ sect EL 950
589	523		10° 55'	"	5.4	-		-5.4	94.2			+517	+77	509,658	508,998	
590	193		10° 15'	"	5.3	-		-5.3	94.3			+191	+26	509,332	508,947	
T	0				5.1	-		-5.1	94.5		T	0	0	509,141	508,921	
591	141		211° 05'	-2.5	4.5	TH	+0.7	-3.8	95.8			-124	-67	509,017	508,854	
592	469		203° 00'	"	6.2	TH	+2.3	-3.9	95.7			-439	-164	508,702	508,757	
593	798		201° 15' 42"	"	5.5	-		-5.5	94.1		TP	-756	-257	508,384	508,663	
593	798				5.4	270°		-5.4			TP	-1	-1			
	2618		18° 16' 51"	-2.5	+7.4	BH	+13.1	+20.5	114.4		BS	-2519	-712			
	2618			+7.1	BH 270°	+13.1	+20.2			BS	-1	-2				
594	2289		18° 10'	"	9.0	BH	-11.4	-20.4	94.0			+2204	+618	508,068	508,567	
595	1958		18° 05'	"	6.1	BH	-9.8	-15.9	98.5			+1886	+526	507,750	508,475	
596	1629		17° 50'	"	12.0	-		-12.0	102.4			+1571	+431	507,435	508,380	
#1	1569		18° 05' 31"	-2.5	11.4	-		-11.4	103.0		#1	+1511	+422	507,375	508,371	#1 T-INT ₂ sect
597	1297		17° 35'	"	11.2	-		-11.2	103.2			+1254	+338	507,118	508,287	
598	969		17° 05'	"	10.3	-		-10.3	104.1			+938	+244	506,802	508,193	
599	639		15° 50'	"	8.4	-		-8.4	106.0			+622	+147	506,486	508,096	
600	309		12° 50'	"	6.7	-		-6.7	107.7			+304	+55	506,168	508,004	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE							
12.18.84		B. Cotcamp		K. Greenfield		6834		KWB / JDL		16		47							
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER					
GEORGIA		Patterson - 7 1/2		G.A.		Pierce								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				
									98.8										
TP	631		225° 51' 45"	-2.5°	5.1	89° 50'	+1.8	-3.3		95.5	TP	-459	-433	502,973	509,916			502,975 x - 509,800 TP T-Intersect	
613	588		225° 50' 45"		6.0	89° 50'	+1.7	-4.3		94.5	TP	-428	-404	503,003	509,744				
613	588				4.3	-		-4.3			TP	-	-						
	482		27° 23' 43"	-2.3°	+5.4	-		+5.4	99.9		BS	-437	-204						
	482				+7.8	TM	-2.4	+5.4			BS	-	-						
614	193		33° 40'		5.9	-		-5.9		94.0		+165	+100	502,730	509,839				
fl	48		24° 17' 29"		5.4	-		-5.4		94.5	fl	+45	+18	502,610	509,757				
X	0				5.1	-		-5.1		94.8	X	0	0	502,565	509,739				
615	132		179° 40'	-2.3°	4.2	-		-4.2		95.7		-132	+11	502,433	509,750				
616	461		170° 23' 55"	-2.1°	1.7	-		-1.7		98.2	TP	-451	+94	502,113	509,832				
616	461				4.0	TM	+2.3	-1.7			TP	-	-						
	1763		346° 35' 39"		+13.3	-		+13.3			BS	-1699	+471						
	1763				+13.2	270°		+13.2	111.4		BS	-	-						
617	1433		346° 35'		11.0	-		-11.0		100.4		+1381	-383	501,794	509,919				
618	1103		" "	-2.1°	9.8	-		-9.8		101.6		+1063	-295	501,476	510,007				
619	773		" "		8.6	-		-8.6		102.8		+745	-207	501,158	510,095				
620	443		" "		7.5	-		-7.5		103.9		+427	-119	500,840	510,183				
621	114		342° 20'		7.3	-		-7.3		104.1		+107	-39	500,520	510,263				
X	0				5.1	-		-5.1		106.3	X	0	0	500,413	510,302				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
12.18.84		B. Cotcamp		K. Greenfield		6834		KUG / D.S.		16		48				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
GEORGIA		BLACKSHEAR East-7 1/2		G.A.		Pierce								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
									111.4							
622	221		185° 05'	-2.1°	6.0	-		-6.0		105.4		-221	-12	500,192	510,290	PARSONS - 7 1/2 T
623	550		183° 37'	"	5.9	TM	+2.8	-3.1		108.3		-550	-15	499,863	510,287	BLACKSHEAR EAST 7.5 ↓
624	880		"	"	6.2	TM	+4.4	-1.8		109.6		-880	-23	499,533	510,279	
625	1210		"	"	7.1	TM	+6.1	-1.0		110.4		-1210	-32	499,203	510,270	
626	1540		"	"	8.9	TM	+7.7	-1.2		110.2		-1539	-41	498,874	510,261	
627	1871		183° 38' 53"	-2.1°	10.6	TM	+9.4	-1.2			TP	-1870	-51	498,541	510,250	
627	1871				10.3	TM	+9.4	-0.9	111	110.3	TP	-2	-1			
	2482		2° 26' 48"	"	+3.9	-		+3.9			BS	-2482	-15			
	2482			"	+3.8	270-		+3.8	114.1		BS	-2	-1			
71	2364		2° 38' 13"	-2.1°	3.4	-		-3.4		110.7	71	+2364	-22	498,421	510,256	498,425 X - 510,220 71 - Inter.
628	2152		2° 05'	"	9.3	89° 50'	+6.3	-3.0		111.1		+2152	-1	498,209	510,233	
629	1822		"	"	8.4	89° 50'	+5.3	-3.1		111.0		+1822	-1	497,879	510,233	
630	1492		"	"	8.0	89° 50'	+4.3	-3.7		110.4		+1492	±0	497,549	510,234	
631	1162		2° 05'	-2.1°	6.8	89° 50'	+3.4	-3.4		110.7		+1162	±0	497,219	510,234	
632	832		"	"	6.6	89° 50'	+2.4	-4.2		109.9		+832	±0	496,889	510,234	
633	502		"	"	6.0	89° 50'	+1.5	-4.5		109.6		+502	±0	496,559	510,234	
634	172		"	"	5.5	89° 50'	+0.5	-5.0		109.1		+172	±0	496,229	510,234	
π	0				5.1	-		-5.1		109.0	π	0	0	496,057	510,234	
635	158		181° 50'	-2.1°	5.4	89° 50'	+0.5	-4.9		109.2		-158	+1	495,899	510,235	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	12-18-84	INSTRUMENT MAN	B. Cotcamp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	KWG/DS	LINE NO.	16	PAGE	49	
AREA	Georgia	TOPO MAP	Blackshear East 7 1/2	STATE	G.A.	COUNTY	Pierce	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.	
									114.1					
636	488		180° 10'	-21'	6.8	89° 50'	+1.4	-5.4		108.7		-488	+16	495,567 510,250
637	817		177° 20'	"	8.6	89° 50'	+2.4	-6.2		107.9		-814	+68	495,243 510,302
638	1145		175° 30'	"	9.9	89° 50'	+3.3	-6.6		107.5		-1137	+132	494,920 510,366
639	1475		175° 14'	"	10.4	89° 50'	+4.3	-6.1		108.0		-1464	+176	494,593 510,410
TP	1703		175° 49' 21"	-2.4'	4.9	-		-4.9		109.2	TP	-1672	+195	494,363 510,428
TP	1703				4.8	270°-		-4.8			TP			
	925		3° 42' 10"	"	3.1	TH		-4.6			BS	-925	-21	
	925			"	6.5	89° 30'		-8.1		107.6	BS			
640	824		3° 38'	-2.4'	8.0	89° 20'	+9.6	+1.6		109.2		+824	-18	494,260 510,424
IF	529		4° 54' 28"	"	4.8	89° 20'	+6.2	+1.4		109.0	IF	-528	+23	493,964 510,429 IF T-INTER
641	494		3° 38'	"	5.1	89° 20'	+5.7	+0.6		108.2		+494	+11	493,930 510,417
642	165		2° 35'	"	6.7	89° 20'	+1.9	-4.8		102.8		+165	+1	493,601 510,407
π	0				5.1	-		-5.1		102.5	π	0	0	493,436 510,406
643	173		208° 25'	-2.4'	9.1	89° 50'	+0.5	-8.6		99.0		-155	-76	493,281 510,330
644	503		209° 55'	"	10.1	89° 50'	+1.5	-8.6		99.0		-446	-232	492,990 510,174
645	831		211° 45'	"	10.2	89° 50'	+2.4	-7.8		99.8		-724	-407	492,712 509,999
646	1161		"	"	7.3	89° 50'	+3.4	-3.9		103.7		-1012	-569	492,424 509,837
IF	1231		210° 31' 39"	"	6.7	89° 50'	+3.6	-3.1		104.5	IF	-1086	-580	492,350 509,826 IF T-Intersect EL. 104.0
647	1488		209° 27' 44"	"	7.6	89° 40'	+8.7	+1.1		108.7	TP	-1325	-677	492,107 509,728
647	1488				7.5	270° 20'	+8.7	+1.2			TP	-4	-1	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
12-18-84		B. Cotcamp		K. Greenfield		6834		KLG / D.S.		16		50			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		BLACKSHEAR East-7 1/2'		G.A.		Pierce								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
										108.7					
	2309		15° 09' 07"	-2.4	9.6	-		+9.6	118.1		BS	-2252	-510		
	2309				+9.3	270°		+9.3		BS					
648	1980		15° 16'	"	6.4	-		-6.4		111.7		+1930	+441	491,781	509,658
649	1650		"	"	6.9	-		-6.9		111.2		+1609	+367	492,460	509,584
650	1320		"	"	7.9	-		-7.9		110.2		+1287	+294	492,138	509,511
IF	1156		15° 49' 35"	"	8.5	-		-8.5		109.6	IF	+1124	+268	490,975	509,485
651	990		15° 16'	-2.4	8.6	-		-8.6		109.5		+965	+220	490,816	509,437
652	660		"	"	8.2	-		-8.2		109.9		+693	+147	490,494	509,364
653	330		"	"	7.5	-		-7.5		110.6		+322	+73	490,173	509,290
654	0				5.1	-		-5.1		113.0	T	0	0	489,851	509,217
655	330		192° 05'	-2.4	5.2	89° 30'	+2.9	-2.3		115.8		-325	-56	489,526	509,161
656	659		190° 30'	"	6.0	89° 30'	+5.8	-0.2		117.9		-652	-93	489,199	509,124
657	989		189° 05'	"	8.0	89° 30'	+8.6	+0.6		118.7		-982	-115	488,869	509,102
658	1318		188° 10'	"	10.3	89° 30'	+11.5	+1.2		119.3		-1311	-132	488,540	509,085
IF	1445		187° 18' 46"	-2.4	7.0	89° 40'	+8.4	+1.4		119.5	IF	-1440	-124	488,411	509,093
659	1648		187° 34'	"	9.9	89° 40'	+9.6	-0.3		117.8		-1641	-148	488,210	509,069
660	1976		188° 16' 22"	"	13.7	89° 46'	+8.0	-5.7	553		TP	-1966	-202	487,885	509,015
660	1976				13.4	270° 14'	+8.0	-5.4		TP					
	1762		16° 38' 20"	-2.4	7.7	TM	-8.8	-1.1	111.5		BS	-1708	-433		
	1762				7.6	TH 270°	-8.8	-1.2		BS					

z = 490,975 x = 509,485
 A-T-Intersect. Horiz.
 Cont: 5-26
 x = -18

IF-T-Intersect EL. 119.0

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
12.18.84		B. Cotcamp		K. Greenfield		6834		HJG / D.S.		16		51			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Georgia		BLACK SHEAR East-7/2		GA.		Pierce								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 -	EAST + WEST -		Y
									111.5						
661	1433		16° 55'	-2.4	6.8	-		-6.8		104.7		+1387	+359	487,564	508,741
662	1103		17° 20'	--	12.7	-		-12.7		98.8		+1066	+284	487,243	508,806
663	773		16° 20'	--	9.5	BH	-3.9	-13.4		98.1		+750	-186	486,927	508,768
664	444		13° 15'	--	10.2	-		-10.2		101.3		+436	+84	486,613	508,666
665	116		6° 55'	--	6.7	-		-6.7		104.8		+116	+9	486,293	508,571
X	0				5.1	-		-5.1		106.4	T	0	0	486,177	508,582
666	214		178° 00'	-2.4	2.8	-		-2.8		108.7		-213	+16	485,964	508,578
667	541		169° 30'	--	7.0	89° 20'	+6.3	-0.7		110.8		-527	+121	485,650	508,703
668	867		166° 10'	--	6.5	89° 20'	+10.1	+3.6		115.1		-832	+242	485,345	508,824
669	1196		164° 32'	--	7.4	89° 10'	+17.4	+10.0		121.5		-1138	+367	485,039	508,747
670	1526		163° 35 35	--	7.8	89° 10'	+22.2	+14.4			TP	-1444	+472	484,733	509,074
670	1526				7.7	270° 50'	+22.2	+14.5		126.0	TP				
	1979		340° 37 39	-2.4	5.3	-		+5.3			BS	-1838	+734		
	1979				5.0	270° -		+5.0			BS				
									5.2	131.2					
671	1650		340° 38'	--	12.0	89° 40'	+9.6	-2.4		128.8		+1532	-612	484,427	509,196
672	1320		" "	--	8.9	89° 40'	+7.7	-1.2		130.0		+1226	-489	484,121	509,319
673	990		" "	--	8.0	89° 40'	+5.8	-2.2		129.0		+919	-367	483,814	509,441
If	1015		341° 22 10	--	7.6	89° 40'	+5.9	-1.7		129.5	If	-947	-364	483,842	509,444
674	660		340° 38'	--	6.7	89° 40'	+3.8	-2.9		128.3		+613	-245	483,508	509,563
675	330		" "	--	5.6	89° 40'	+1.9	-3.7		129.5		+306	-122	483,201	509,686

y = 483,840 x = 509,440
 If T Inter. EL. 130.0

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
12.18.84		B. Cotcamp		K. Greenfield		6834		KOL / DS.		16		52				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
Georgia		BLACKSHEAR EAST-7 1/2		G.A.		Pierce								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
									131.2							
676	0				5.1	-		-5.1		126.1	T	0	0	482,895	509,808	
677	330		160° 40'	-24°	6.8	89° 40'	+1.9	-4.9		126.3		-367	+122	482,588	509,930	
678	659		162° 40'	"	8.2	89° 40'	+3.8	-4.4		126.8		-620	+223	482,275	510,031	
679	978		168° 22'	"	8.4	89° 40'	+5.7	-2.7		128.5		-947	+237	481,946	510,045	
Δ	1211		168° 20' 26"	"	8.6	89° 40'	+7.0	-1.6		129.6	Δ	-175	+294	481,720	510,102	
680	1303		171° 00'	"	7.7	89° 40'	+7.6	-0.1		131.1		-1277	+258	481,618	510,066	
681	1630		169° 32' 34"	"	8.9	89° 40'	+9.5	+0.6	} 134.1		TP	-1589	+363	481,306	510,171	
681	1630				8.8	270° 20'	+9.5	+0.7			131.9	TP				
	1643		318° 42' 10"	-24°	2.2	-		+2.2				BS	-488	+1135		
	1643				2.1	270°		+2.1			BS					
682	1318		316° 35'	"	9.9	TH	+6.6	-3.3		130.8		+919	-945	481,037	510,361	
683	989		315° 50'	"	8.7	TH	+4.9	-3.8		130.3		+680	-718	480,798	510,588	
684	660		314° 10'	"	7.0	TH	+3.3	-3.7		130.4		+440	-492	480,558	510,814	
685	330		312° 30'	"	5.9	TH	+1.7	-4.2		129.9		+213	-252	480,331	511,054	
686	0				5.1	-		-5.1		129.0	T	0	0	480,118	511,306	
687	330		128° 30'	-24°	6.5	-		-6.5		129.6		-194	+267	479,924	511,573	
688	660		127° 35'	"	9.1	-		-9.1		125.0		-380	+539	479,738	511,845	
689	990		127° 30'	"	10.7	-		-10.7		123.4		-569	+810	479,549	512,116	
1K	1093		126° 52' 01"	"	10.8	-		-10.8		123.3	1K	-619	+901	479,499	512,207	
690	1320		127° 25'	"	12.0	-		-12.0		122.1		-757	+1081	479,361	512,387	

5-481,720 x-510,080
U.S.C+G.S. Δ EL. 129.0

1K y-479,505 x-52,225
y-intersect

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
12-19-84		B. Cotcamp		K. Greenfield		6834		KUG/D.S.		16	53					
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER					
GEORGIA		Patterson S.E.-7 1/2'		G.A.							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
									134.1							
691	1650		127° 15'	-2.4°	9.1	84°	-8.3	-17.4		116.7		-943	+1354	479,175	512,660	
692	1978		127° 39' 20"	"	13.0	90° 20'	-11.5	-24.5			TP	-1142	+1615	478,976	512,921	Black shear East-7 1/2'
692	1978				12.9	269° 40'	-11.5	-24.4	*	109.7	TP					
	2308		318° 06' 48"	-2.4°	11.1	89°	-40.3	-29.2			BS	-1652	+1611			
	2308				+10.9	211°	-40.3	-29.4	-29.23 80.4		BS					
693	1978		318° 15'	"	11.8	89°	+34.5	+22.7		103.1		+1419	-1378	478,743	513,154	Patterson S.E.-7 1/2'
694	1648		318° 10'	"	12.1	89°	+28.8	+16.7		97.1		+1181	-1150	478,505	513,382	
695	1318		317° 50'	"	13.4	89°	+23.0	+9.6		90.0		+939	-925	478,263	513,607	
696	989		317° 45'	"	11.7	89°	+17.3	+5.6		86.0		+704	-675	478,028	513,837	
697	659		316° 55'	"	10.7	89°	+11.5	+0.8		81.2		+462	-470	477,786	514,062	
698	330		314° 50'	"	8.8	89°	+5.8	-3.0		77.4		+223	-244	477,547	514,288	
699	0				5.1	-		-5.1		75.3	π	0	0	477,324	514,532	
700	186		123° 34' 16"	-2.4°	6.3	-		-6.3		74.1	π	-76	+159	477,228	514,691	Y=477,280 X=514,695 Y-inter. 514,740
701	330		125° 10'	"	7.4	-		-7.4		73.0		-179	+277	477,145	514,809	
702	660		124° 25'	"	9.6	-		-9.6		70.8		-350	+560	476,974	515,092	
703	990		124° 20'	"	11.3	-		-11.3		69.1		-524	+840	476,800	515,372	
704	1320		124° 10'	"	12.1	-		-12.1		68.3		-675	+1122	476,629	515,654	
704	1649		123° 44' 49"	"	11.9	-		-11.9			TP	-858	+1408	476,464	515,940	
704	1649				11.6	210°		-11.6	-11.73	68.7	TP	-2				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
12-19-84		B. Cotcamp		K. Greenfield		6834		KUL / D.S.		16		54			
AREA		TOPO MAP S.E.		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		Patterson - 7 1/2		G.A.		Pierce								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
										68.7					
	1148		288° 01' 44"	-2.4	3.6	-		+3.6			BS	-309	+1106		
	1148				+9.3	TH	-5.7	+3.6	72-3		BS	-2			
705	819		287° 25'	"	8.3	TH	+4.1	-4.2		68.1		+212	-791	476.365 516.255	
706	489		289° 30'	"	6.8	TH	+2.4	-4.4		67.9		+144	-467	476.297 516.579	
707	161		289° 25'	"	5.7	TH	+0.8	-4.9		67.4		+47	-154	476.200 516.892	
T	0				5.1	-		-5.1		67.2	T	0	0	476.153 517.046	
708	180		135° 55'	-2.4	5.5	TH	+0.9	-4.6		67.7		-124	+131	476.029 517.177	
709	510		136° 30'	"	6.8	TH	+2.6	-4.2		68.1		-355	+366	475.798 517.412	
710	836		138° 00'	"	8.7	TH	+4.2	-4.5		67.8		-597	+585	475.556 517.631	
711	1166		"	"	10.3	TH	+5.8	-4.5		67.8		-833	+816	475.320 517.862	
712	1493		135° 59' 11"	"	4.0	-		-4.0		68.3	TP	-1029	+1081	475.122 518.127	
712	1493				11.4	TH	+7.5	-3.9			TP	-2			
	3411		295° 00' 27"	-2.4	13.1	89° 50'	-9.9	+3.2	71.5		BS	-1311	+3149		
	3411				13.0	270° 10'	-9.9	+3.1			BS	-2			
713	3082		294° 36'	"	13.0	89° 50'	+9.0	-4.0		67.5		+1165	-2854	474.974 518.422	
714	2752		"	"	12.3	89° 50'	+8.0	-4.3		67.2		+1040	-2548	474.849 518.728	
715	2422		"	"	11.1	89° 50'	+7.0	-4.1		67.4		+915	-2242	474.724 519.034	
716	2092		"	"	10.3	89° 50'	+6.1	-4.2		67.3		+790	-1937	474.599 519.339	
717	1762		"	"	9.3	89° 50'	+5.1	-4.2		67.3		+666	-1631	474.475 519.645	
718	1432		"	"	8.3	89° 50'	+4.2	-4.1		67.4		+541	-1326	474.350 519.950	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
12-19-84		B. Cotcamp		K. Green field		6834		KLG-12.S.		16	55				
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER					
GEORGIA		Patterson S.E. - 7 1/2		G.A.	Pierce					W. Eassilly					
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
									71.5						
719	1102		294° 45'	-2.4°	7.2	89° 50'	+3.2	-4.0		67.5		+419	-1019	474,228	520,251
720	772		- -	--	6.8	89° 50'	+2.2	-4.6		66.9		+294	-715	474,103	520,561
721	443		295° 45'	-	6.8	89° 50'	+1.3	-5.5		66.0		+176	-467	473,985	520,869
722	113		291° 20'	--	6.3	89° 50'	+0.3	-6.0		65.5		+37	-107	473,846	521,169
π	0				5.1	-		-5.1		66.4	π	0	0	473,809	521,276
723	221		132° 59'	-2.4°	6.9	89° 50'	+0.6	-6.3		65.2		-144	+168	473,665	521,444
724	551		- -	--	7.1	89° 50'	+1.6	-5.5		66.0		-358	+418	473,451	521,694
725	881		- -	--	9.0	89° 50'	+2.6	-6.4		65.1		-573	+669	473,236	521,945
41	968		132° 25' 51"	--	9.5	89° 50'	+2.8	-6.7		64.8	41	-623	+741	473,186	522,017
726	1211		132° 59'	-2.4°	10.9	89° 50'	+3.5	-7.4		64.1		-788	+920	473,021	522,196
727	1541		- -	--	8.0	-		-8.0		63.5		-1003	+1170	472,806	522,446
728	1871		- -	--	8.1	-		-8.1		63.4		-1217	+1421	472,592	522,697
729	2201		- -	--	8.4	-		-8.4		63.1		-1432	+1672	472,377	522,948
1K	2492		132° 41' 42"	--	8.6	-		-8.6			TP	-1612	+1901	472,195	523,177
1K	2492			--	8.3	270°		-8.3		63.0	TP	-2			
	706		49° 00' 01"		+5.4	-		+5.4			BS	-485	-513		
	706				+8.9	TH	-3.5	+5.4	68.4		BS	-2	-1		
730	614		47° 40'		5.9	-		-5.9		62.5		+432	+436	472,140	523,099
731	285		43° 20'		7.1	TH	+1.4	-5.7		62.7		+215	+187	471,923	522,850
π	6				5.1	-		-5.1		63.3	π	0	6	471,708	522,663

4-473,145 x-522,010
y-521,701

4-472,195 x-523,200
y-521,701. SL 63.0

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE								
12.19.84		B. Cotcamp		K. Greenfield		6834		Kwh / ds.		16	56								
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER									
Georgia		Patterson S.E. - 7 1/2'		GA.	Piec					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				
									68.4										
732	37		197° 10'	-2.4	5.2	-		-5.2		63.2		-36	-9	471,672	522,654				
733	365		196° 15'	--	5.4	-		-5.4		63.0		-354	-87	471,354	522,576				
734	691		202° 10'	--	5.0	-		-5.0		63.4		-650	-234	471,058	522,429				
735	1020		204° 10'	--	5.2	-		-5.2		63.2		-947	-378	470,761	522,285				
736	1349		205° 01' 23"	--	5.3	-		-5.3				-1244	-521	470,462	522,141				
736	1349				11.9	TH	+6.7	-5.2		63.2	TP	-2	-1						
	2622		4° 25' 22"	2.4	+7.8	-		+7.8	71.0		BS	-2620	-93						
	2622				7.7	270°-		+7.7			BS	-2	-1						
737	2305		3° 00'	--	8.1	-		-8.1		62.9		+2305	+24	470,145	522,071				
738	1976		3° 35'	--	8.1	-		-8.1		62.9		+1976	+41	469,816	522,088				
739	1646		4° 10'	--	8.0	-		-8.0		63.0		+1645	+51	469,485	522,078				
740	1318		5° 20'	--	7.1	✓		-7.1		63.9		+1316	+67	469,156	522,114				
741	990		7° 00'	--	5.6	-		-5.6		65.4		+987	+79	468,827	522,126				
41	835		7° 28' 49"	--	5.2	-		-5.2		65.8	41	+832	+74	468,672	522,121				5-468,675 x-522,115 7-intersect
742	666		7° 00'	--	8.0	TH	+3.3	-4.7		66.3		+658	+53	468,498	522,100				
743	330		" "	--	6.6	TH	+1.7	-4.9		66.1		+329	+26	468,169	522,073				
744	0				5.1	-		-5.1		65.9	π	0	0	467,840	522,047				
745	328		176° 50'	-2.4	5.5	-		-5.5		65.5		-326	+32	467,514	522,079				
746	651		168° 30'	--	6.1	-		-6.1		64.9		-632	+156	467,208	522,203				
747	977		165° 05'	--	7.2	-		-7.2		63.8		-933	+291	466,907	522,338				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
12.19.84		B. Cotcamp		K. Greenfield		6834		KWK / BS.		16	57			
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
Georgia		Patterson S.E. - 7 1/2'		G.A.	Pierce					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.	
									71.0					
748	1306		163° 30'	-2.4	7.9	-		-7.9		63.1		-1236	+423	466,604 522,470
749	1631		164° 55'	--	7.8	-		-7.8		63.2		-1556	+490	466,284 522,537
750	1952		167° 10'	--	7.8	-		-7.8		63.2		-1883	+513	465,957 522,560
TP	2048		160° 45' 21"	--	6.6	-		-6.6		64.4	TP	-1904	+755	465,934 522,801
TP	2048				6.5	270°		-6.5			TP	-2	-1	
	626		355° 40' 54"	-2.4	3.8	-		+3.8	68.2		BS	-622	+73	
	626				6.9	TH	-3.1	+3.8			BS	-2	-1	
751	555		354° 30'	--	7.1	TH	+2.8	-4.3		63.9		+550	-76	465,860 522,797
752	225		353° 50'	--	5.9	TH	+1.1	-4.8		63.4		+222	-34	465,532 522,839
X	0				5.1	-		-5.1		63.1	X	0	0	465,310 522,873
753	106		182° 55'	-2.4	4.8	-		-4.8		63.4		-106	-1	465,204 522,872
754	436		180° 50'	--	4.0	TH	+2.2	-1.8		66.4		-436	+12	464,874 522,885
755	765		"	--	4.3	90° 06'	-1.3	-5.6		62.6		-765	+21	464,545 522,894
TP	626		355° 40' 54"	--	3.8	-		-3.8		64.4	TP	+622	-73	465,930 522,799
TP	626				6.9	TH	+3.1	-3.8			TP	-2	-1	
	742		258° 28' 12"	-2.4	2.4	-		+2.4	66.8		BS	+179	+720	
	742				6.1	TH	-3.7	+2.4			BS	-2	-1	
X	0				5.1	-		-5.1		61.7	X	0	0	466,107 523,518
IF	660		61° 35' 05"	--	2.8	-		-2.8		64.0	IF	+338	+567	466,445 524,085
X	679		63° 14' 52"	--	6.3	TH	+3.4	-2.9		63.9	X	+331	+593	466,438 524,111

466,445 524,085
T-Inter. Horiz. -24
vert. x -1
approx. locat. from 66,445

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE							
1-5-85		B. Cotcamp		K. Greenfield		6834		KUG/D.S.		16	58							
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
Georgia		Hoboken East-7 1/2		GA.		Brantley					D. SHABE+Deen							
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			
										82.0								
X	1158		256° 32' 35"	-2.5	0.9	-		+0.9	82.9		X	-318	-1113	452,005	520,991			APPROX LOC OF B.M. E-821
HI	1181		258° 09' 56"	--	0.4	-		-0.4		82.5		-292	-1144	452,031	520,960			HI y=452,015 x=520,970
IF	798		258° 29' 35"	--	16.0	89° 32'	+6.5	-3.5		79.4	IF	+193	+774	452,130	521,330			Takeoff Horizontal y=452,130
T	0				5.1	-		-5.1		77.8	T	0	0	452,323	522,104			IF y-Inter. x=521,330
756	191		190° 00'	-2.5	8.8	88° 30'	+5.0	-3.8		79.1		-189	-25	452,134	522,079			
757	521		" "	--	11.0	88° 30'	+13.6	+2.6		85.5		-517	-68	451,806	522,036			
758	851		" "	--	8.8	88° 30'	+22.3	+13.5		96.4		-844	-111	451,479	521,993			
759	1181		190° 20'	--	7.4	88° 30'	+30.9	+23.5		106.4		-1170	-161	451,153	521,943			
760	1509		189° 17' 04"	--	5.4	88° 40'	+35.1	+29.7		112.6	TP	-1498	-178	450,825	521,926			
760	1509				5.3	271° 20'	+35.1	+29.8			TP							
	330		359° 42' 16"	-2.5	5.9	-		+5.9		118.5	BS	-330	+16					
	330				7.6	TH	-1.7	+5.9			BS							
761	0				5.1	-		-5.1		113.4	T	0	0	450,495	521,942			
762	328		220° 05'	-2.5	4.8	TH	+1.6	-3.2		115.3		-260	-200	450,235	521,742			
TP	495		216° 06' 16"	--	3.1	-		-3.1		115.4	TP	-412	-274	450,083	521,668			
TP	495				5.6	TH	+2.5	-3.1			TP							
	1436		1° 31' 35"	--	6.6	-		+6.6		121.9	BS	-1436	+24					
	1436				6.4	270°		+6.4		+6.53	BS							
763	1276		1° 05'	--	6.7	-		-6.7		115.2		+1276	-32	449,923	521,660			
764	946		" "	--	9.8	TH	+4.7	-5.1		116.8		+946	-23	449,593	521,669			

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
1-5-85		B. Cotcamp		K. Greenfield		6834		KWL / D.S.		16		59			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEO91A		Hoboken East-7 1/2		G.A.		BRANTLEY								D. SHABLEDEEN	
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
									121.9						
765	616		0° 00' 00"	-2.5	5.7	-		-5.7		116.2		+615	-27	447,262	521,665
766	286		- - -	-	5.4	-		-5.4		116.5		+286	-12	448,933	521,680
767	69		7° 05' 32"	-	4.3	-		-4.3		117.6	76	+69	+6	448,716	521,698
768	0			-	5.1	-		-5.1		116.8	76	0	0	448,647	521,692
767	67		247° 35'	-2.5	3.6	-		-5.6		116.3		-28	-61	448,619	521,631
768	395		225° 50'	-	6.1	-		-6.1		115.8		-287	-271	448,360	521,421
769	722		226° 15'	-	6.2	-		-6.2		115.7		-522	-499	448,125	521,193
TP	767		226° 31' 51"	-	10.3	TH	+3.8	-6.5		115.4	TP	-551	-533	448,096	521,159
TP	767			-	10.2	TH	+3.8	-6.4			TP				
	1273		69° 24' 48"	-2.5	4.6	-		+4.6	120.0		BS	-499	-1171		
	1273			-	10.9	TH	-6.4	+4.5			BS				
770	990		70° 00'	-	6.2	-		-6.2		113.8		+379	+915	447,976	520,903
771	660		- - -	-	7.4	-		-7.4		112.6		+253	+610	447,850	520,598
772	330		70° 20'	-	7.7	-		-7.7		112.3		+125	+306	447,722	520,294
773	290		72° 23' 42"	-	7.9	-		-7.9		112.1	773	+100	+272	447,697	520,260
774	0			-	5.1	-		-5.1		114.9	774	0	0	447,597	519,988
774	330		253° 50'	-2.5	5.9	-		-5.9		114.1		-106	-313	447,491	519,675
775	660		- - -	-	6.4	-		-6.4		113.6		-211	-625	447,386	519,363
776	990		253° 55'	-	9.0	-		-9.0		111.0		-316	-938	447,281	519,050
777	1319		254° 10'	-	13.0	90.04	-1.5	-14.5		105.5		-415	-1252	447,182	518,736

Y=448,700 X=521,705
F=INT. EL. 117.0

Y=447,700 X=520,230
F=INT. EL. 112.0

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
1-5-85		B. Cotcamp		K. Greenfield		6834		KUL / DS		16		60			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Georgia		Hoboken East - 7 1/2		G.A.		Brantley								D. SMABERGER	
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
									120.0						
TP	1424		254° 02' 21"	-2.5	9.9	90° 16'	-6.6	-16.5			TP	-451	-1351	447,147	518,636
TP	1424				9.6	269° 44'	-6.6	-16.2	-16.43	103.6	TP	"	-1		
	310		77° 24' 59"	--	+9.7	88°	-10.8	-1.1	102.5		BS	-81	-299		
	310				+4.3	89°	-5.4	-1.1			BS	+2	-2		
778	85		67° 55'	-2.5	5.1	88°	+1.5	-3.6		98.9		+35	+77	447,103	518,412
X	0				5.1	-		-5.1		97.4	X	0	0	447,068	518,335
779	235		208° 10'	--	6.9	90° 30'	-2.1	-9.6		93.5		-212	-102	446,856	518,233
780	559		204° 40'	--	3.0	90° 30'	-4.9	-7.9		94.6		-518	-211	446,550	518,124
TP	772		203° 46' 51"	--	5.1	-		-5.1		97.4	TP	-719	-280	446,351	518,053
TP	772				9.0	TH	+3.9	-5.1			TP	+2	-2		
	618		356° 25' 43"	-2.5	13.1	-		+13.1	110.5		BS	-615	+65		
	618				+10.0	BH	+3.1	+13.1			BS	+2	-2		
781	504		354° 45'	--	11.8	-		-11.8		98.7		+499	-68	446,237	518,048
782	176		0° 50'	--	6.9	-		-6.9		103.6		+176	-5	445,914	518,111
#1	87		20° 52' 36"	--	5.7	-		-5.7		104.8	#1	+83	+27	445,821	518,143
X	0				5.1	-		-5.1		105.4	X	0	0	445,738	518,116
783	162		154° 05'	-2.5	6.6	88° 40'	+3.8	-2.8		107.7		-142	+77	445,596	518,193
784	465		150° 15' 58"	--	11.9	88° 40'	+10.8	-1.1		109.4	TP	-393	+248	445,347	518,362
784	465				11.8	271° 20'	+10.8	-1.0			TP	+2	-2		

#1 445,800 x 518,130
+ Inter.

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	1-5-85	INSTRUMENT MAN	B. Cotamp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	KUL / D-S.	LINE NO.	16	PAGE	61
AREA	Georgia	TOPO MAP	Hoboken East - 7 1/2'	STATE	G.A.	COUNTY	Brantley	TWP		RANGE		PPM	
												PARTY MANAGER	D. SHAGELOON

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.	
										109.4				
	387		287° 53' 41"	-2.5°	7.5	-		+7.5	116.9		BS	-103	+373	
	387				+5.5	BH	+1.9	+7.4		BS	+1	-1		
785	60		293° 20'	--	5.8	-		-5.8		111.1		+21	-56	445,366 518,678
1	0				5.1	-		-5.1		111.8	1	0	0	445,245 518,734
786	270		117° 28'	-2.5°	6.9	89°-	+4.7	-2.2		114.7		-114	+245	445,131 518,979
787	600		-	--	4.8	89°-	+10.5	+5.7		122.6		-253	+544	444,972 519,278
788	930		-	--	5.1	89°-	+16.2	+11.1		128.0		-393	+843	444,852 519,577
789	1260		-	--	10.3	89°-	+22.0	+11.7		128.6		-532	+1142	444,713 519,876
790	1590		-	--	9.2	89° 10'	+23.1	+13.9		130.8		-671	+1441	444,574 520,175
1/2	1660		117° 16' 33"	--	10.0	89° 10'	+24.1	+14.1		131.0	TP	-696	+1507	444,550 520,240
1/2	1660			--	9.9	270° 50'	+24.1	+14.2			TP	+1	-1	
	2596		2° 19' 58"	-2.5°	4.7	-		+4.7	135.7		BS	-2596	+8	
	2596			--	4.6	270°-		+4.6		BS				
791	2308		2° 02'	--	6.7	-		-6.7		129.0		+2308	-19	444,262 520,229
792	1986		-	--	8.5	-		-8.5		127.2		+1980	-16	443,934 520,232
793	1650		-	--	6.3	-		-6.3		129.4		+1650	-13	443,604 520,235
794	1320		-	--	9.7	TH	+6.6	-3.1		132.6		+1320	-11	443,274 520,237
795	990		2° 02'	-2.5°	9.0	TH	+5.0	-4.0		131.7		+990	-8	442,944 520,240
796	660		-	--	5.2	-		-5.2		130.5		+660	-5	442,614 520,243
797	330		-	--	5.6	-		-5.6		130.1		+330	-3	442,284 520,245

Y-444,550 X-520,240
 Horiz y-+11
 Cor'd. x=-11

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
1-5-85		B. Cotcamp		K. Greenfield		6834		KUG / D.S.		16		62			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
G. ORGIA		MOBOKEN EAST - 7 1/2'		G.A.		BRANTLEY								D. SHABELDEN	
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
									135.7						
798	0				5.1	-		-5.1		130.6	T	0	0	441,954	520,248
799	330		181° 50'	-2.5	4.4	TH	+1.7	-2.7		133.0		-330	+4	441,624	520,252
IF	345		181° 15'	"	2.4	-		-2.4		123.3	IF	-345	+8	441,609	520,256
800	660		181° 50'	"	5.1	89° 30'	+5.8	+0.7		136.4		-660	+8	441,294	520,256
801	990		"	"	8.2	89° 30'	+8.6	+0.4		136.1		-990	+12	440,964	520,260
802	1320		"	"	7.1	89° 40'	+7.7	+0.6		136.3		-1320	+15	440,634	520,263
803	1650		181° 50'	-2.5	10.8	89° 40'	+9.6	-1.2		134.5		-1650	+19	440,304	520,267
804	1980		"	"	7.9	89° 50'	+5.8	-2.1		133.6		-1980	+23	439,974	520,271
805	2310		"	"	7.7	89° 50'	+6.7	-1.0		134.7		-2310	+27	439,644	520,275
806	2640		"	"	9.1	89° 50'	+7.7	-1.4		134.3		-2640	+31	439,314	520,279
807	2966		181° 38' 35"	"	10.5	89° 50'	+8.6	-1.9		133.8	TP	-2966	+44	438,988	520,282
807	2966			"	10.4	270° 10'	+8.6	-1.8			TP				
	519		339° 02' 33"	-2.8	4.2	-		+4.2	138.0		BS	-475	+209		
	519				6.8	TH	-2.6	+4.2			BS				
808	189		340° 50'	"	5.8	89°	+3.3	-2.5		135.5		+175	-71	438,688	520,430
T	0				5.1	-		-5.1		132.9	T	0	0	438,513	520,501
809	141		168° 20'	"	7.1	-		-7.1		130.9		-137	+35	438,376	520,536
810	471		"	"	8.6	-		-8.6		129.4		-456	+118	438,057	520,619
811	800		166° 25'	"	7.1	-		-7.1		130.9		-768	+226	437,745	520,727
812	1129		165° 40'	"	6.4	89° 50'	+3.3	-3.1		134.9		-1079	+333	437,434	520,834

IF 441,630 X - 520,255
T - Inter. EL. 134.0

TP 438,775 X - 520,295
TP - Inter. EL. 134.0

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
1-5-85		B. Cotnam		K. Greenfield		6834		KUL / D.S.		16	63			
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER			
GEORGIA		Hoboken East 7 1/2		G.A.		BRANTLEY					D. SHABLEEEN			
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.	
									138.0					
813	1459		165° 40'	-2.8°	7.0	89° 40'	+8.5	+1.5		139.5		-1394	+430	437.119 520.931
814	1789		166° 01'	--	5.7	89° 40'	+10.4	+4.7		142.7		-1713	+517	436.800 521.018
TP	1962		165° 55' 10"	--	5.6	89° 40'	+11.4	+5.8	}	143.8	TP	-1877	+570	436.636 521.071
TP	1962				5.7	270° 20'	+11.4	+5.7		TP				
	1145		354° 25' 47"	-2.8°	6.8	-		+6.8	}	150.6	BS	-1133	+167	
	1145				6.7	270° -		+6.7		BS				
815	990		354° 40'	--	6.0	-		-6.0		144.6		+980	-140	436.483 521.098
816	660		" "	--	5.3	-		-5.3		145.3		+653	-93	436.156 521.145
817	330		353° 25'	--	6.2	TH	+1.7	-4.5		146.1		+326	-54	435.829 521.184
818	0				5.1	-		-5.1		145.5	TP	0	0	435.503 521.238
819	330		171° 05'	-2.8°	5.7	-		-5.7		144.9		-323	+67	435.180 521.305
820	659		169° 40'	--	6.2	-		-6.2		144.4		-642	+150	434.861 521.388
AI	733		170° 42' 54"	--	5.8	-		-5.8	}	144.8	TP	-717	+153	434.786 521.391
AI	733				9.5	TH	+3.7	-5.8		TP				
	596		43° 46' 09"	-2.8°	3.2	-		+3.2	}	148.0	BS	-450	-391	
	596				6.1	TH	-3.0	+3.1		BS				
821	330		45° 15'	--	6.0	TH	+1.7	-4.3		143.7		+244	+223	434.580 521.223
822	0				5.1	-		-5.1		142.9	TP	0	0	434.336 521.000
823	330		228° 40'	-2.8°	6.3	TH	+1.7	-4.6		143.4		-230	-237	434.106 520.763
824	660		228° 50'	--	4.8	-		-4.8		143.2		-458	-475	433.878 520.525

EL. 145.0

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
1.5.85		B. Cotamp		K. Greenfield		6834		KWA/D.S.		16	64					
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER						
Georgia		Hoboken East-7.5'		GA.	Brantley					D. SHABER-DEEN						
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
									148.0							
A	616		226° 04' 10"	-2.8°	7.1	TH	+3.1	-4.0		144.0	A	-449	-422	433,887	520,578	y=433,895 x=520,585 COLVIN 1935 U.S.C. 46.5 A EL. 144.0
TP	801		227° 34' 01"	"	5.2	-		-5.2		142.8	TP	-569	-564	433,767	520,436	
TP	801				9.2	TH	+4.0	-5.2			TP					
	1172		2° 57' 50"	-2.8°	4.9	TH	-5.9	-1.0			BS	-1172	-3			
	1172				+4.8	TH ₂₇₀	-5.9	-1.1	141.7		BS					
825	989		3° 10'	"	8.3	89° 30'	+8.6	+0.3		142.0		+989	+6	433,584	520,439	
826	660		3° 30'	"	7.9	89° 30'	+5.8	-2.1		139.6		+660	+8	433,255	520,441	
827	330		4° -	"	7.0	89° 30'	+2.9	-4.1		137.6		+330	+7	432,925	520,440	
HI	91		5° 20' 46"	"	5.3	89° 30'	+0.8	-4.5		137.2	HI	+91	+4	432,686	520,437	y=432,675 x=520,460 HI - Inter. EL. 137.0
828	0				5.1	-		-5.1		136.6	T	0	0	432,595	520,433	
829	330		182° 30'	-2.8°	7.3	-		-7.3		134.4		-330	+2	432,265	520,435	
830	660		"	"	10.3	-		-10.3		131.4		-660	+3	431,935	520,436	
831	990		"	"	13.0	-		-13.0		128.7		-990	+5	431,605	520,438	
TP	1109		182° 04' 58"	"	13.2	-		-13.2		128.5	TP	-1109	+14	431,486	520,447	y=431,490 x=520,455 TP - Inter. EL. 128.0
TP	1109				7.7	BH	-5.5	-13.2			TP					
											BS					
											BS					

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
1-6-85		B. Cotcamp		K. Greenfield		6834		KUG D.S.		16	65			
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER			
GEO R91A		Moberken East - 7/2		G.A.		Brentley					D. SHARLOREN			
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.	
										128.5				
	2805		263° 22' 40"	-2.8	+4.1	BH	+14.0	+18.1	146.5		BS	+459	+2767	
	2805				+3.9	BH 270°	+14.0	+17.9	118.03		BS	-3		2805' OFFSET EAST
TP	0				5.1	-		-5.1		141.4	TP	0	0	431,942 523,214
832	224		199° 35'	--	6.0	-		-6.0		140.5		-214	-65	431,728 523,149
833	554		" "	--	5.8	-		-5.8		140.7		-530	-160	431,412 523,054
834	884		" "	--	6.5	-		-6.5		140.0		-846	-255	431,096 522,959
835	1214		" "	--	7.2	-		-7.2		139.3		-1162	-351	430,780 522,863
836	1544		199° 35'	-2.8	8.0	-		-8.0		138.5		-1478	-446	430,464 522,768
837	1874		" "	--	10.4	-		-10.4		136.1		-1794	-541	430,148 522,673
838	2204		" "	--	11.2	-		-11.2		135.3		-2110	-636	429,832 522,578
TP	2357		199° 20' 26"	--	11.4	-		-11.4		135.1	TP	-2259	-671	429,680 522,542
TP	2357			--	11.3	270°		-11.3			TP	-3	-1	
	3805		11° 38' 39"	-2.8	+13.5	89° 50'	-11.1	+2.4			BS	-3760	-585	
	3805				+13.4	270° 10'	-11.1	+2.3	137.4		BS	-3	-1	
839	3630		11° 35'	--	7.1	89° 56'	+4.2	-2.9		134.5		+3587	+554	429,504 522,510
840	3300		" "	--	5.8	89° 56'	+3.8	-2.0		135.4		+3261	+504	429,178 522,460
841	2970		" "	--	9.1	89° 50'	+8.6	-0.5		136.9		+2935	+454	428,852 522,410
842	2640		" "	--	7.8	89° 50'	+7.7	-0.1		137.3		+2609	+403	428,526 522,359
TP	2561		11° 40' 18"	--	7.2	89° 50'	+7.5	+0.3		137.7	TP	+2530	+395	428,441 522,351

TP 428,455 X - 522,345
44A₂ INT

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
1-6-85		B. Cotcamp		K. Greenfield		6834		KUG/D.S.		16		66			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEOR91A		Hoboken East-7 1/2		G.A.		Brawley									
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
									137.4						
843	2310		11° 35'	-2.8	6.3	89° 50'	+6.7	+0.4		137.8		+2283	+353	428,200	522,309
844	1980		" "	" "	6.7	89° 50'	+5.8	-0.9		136.5		+1957	+302	427,874	522,258
845	1650		" "	" "	5.4	89° 50'	+4.8	-0.6		136.8		+1631	+252	427,548	522,208
846	1320		11° 35'	-2.8	5.8	89° 50'	+3.8	-2.0		135.4		+1305	+202	427,222	522,158
847	990		" "	" "	7.6	89° 50'	+2.9	-4.7		132.7		+978	+151	426,895	522,107
848	660		" "	" "	10.0	89° 50'	+1.9	-8.1		129.3		+652	+101	426,569	522,057
849	330		" "	" "	8.6	89° 50'	+1.0	-7.6		129.8		+326	+50	426,243	522,006
850	0		" "	" "	5.1	-		-5.1		132.3	h	0	0	425,917	521,956
851	330		191° 35'	-2.8	4.7	89° 30'	+2.9	-1.8		135.6		-326	-50	425,591	521,906
852	660		" "	" "	5.5	89° 30'	+5.8	+0.3		137.7		-652	-101	425,265	521,855
853	990		" "	" "	6.6	89° 30'	+8.6	+2.6		139.4		-978	-151	424,939	521,805
h-h	1201		191° 32' 01"	" "	7.2	89° 30'	+10.5	+3.3		140.7	h	-1187	-182	424,730	521,774
854	1320		191° 35'	" "	8.3	89° 30'	+11.5	+3.2		140.6		-1305	-202	424,512	521,754
855	1650		" "	-2.8	11.3	89° 30'	+14.4	+3.1		140.5		-1631	-252	424,286	521,704
856	1980		" "	" "	9.2	89° 40'	+11.5	+2.3		139.7		-1957	-302	423,960	521,654
857	2310		" "	" "	10.7	89° 40'	+13.4	+2.7		140.1		-2283	-353	423,634	521,603
858	2640		" "	" "	12.8	89° 40'	+15.4	+2.6		140.0		-2609	-403	423,308	521,553
h-h	2699		191° 32' 46"	" "	12.9	89° 40'	+15.7	+2.8		140.2	h-h	-2668	-410	423,249	521,546
859	2968		191° 48'	" "	10.5	89° 46'	+12.1	+1.6		139.0		-2931	-464	422,986	521,492

h-h 424,775 X - 521,775
h-h 4 way int EL. 140.

h-h 423,270 X - 521,535
h-h 4 way int. EL. #10

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO		PAGE			
1-6-85		B. Cotcamp		K. Greenfield		6834		KUG/D.S.		16		67			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		Hoboken East-7 1/2'		G.A.		Brantley									
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
									137.4						
TP	2997		191° 42' 57"	-2.5	10.8	89° 46'	+12.2	+1.4	}	138.8	TP	-2958	-480	422,956	521,475
TP	2997				10.7	270° 14'	+12.2	+1.5		TP			-3	-1	
	302		23° 57' 35"	--	+5.0	-		+5.0	}	143.8	BS	-281	-110		
	302				+3.5	BH	+1.5	+5.0		BS			-3	-1	
860	0				5.1	-		-5.1	}	138.7	π	0	0	422,672	521,364
861	330		210° 00' 19"	-2.5	4.8	-		-4.8		TP			-293	-152	422,376
861	330				3.2	BH	-1.7	-4.9	}	138.9	TP		-3	-1	
	2425		30° 55' 57"	--	+2.9	-		+2.9		BS			-2132	-1155	
	2425				2.8	270° -		+2.8	}	141.7	BS		-3	-1	
862	2095		30° 53'	-2.5	9.6	89° 50'	+6.1	-3.5			138.2		+1843	+996	422,084
863	1765		- -	--	9.6	89° 50'	+5.1	-4.5		137.2		+1553	+839	421,794	520,894
864	1435		- -	--	8.5	89° 50'	+4.2	-4.3		137.4		+1262	+682	421,503	520,737
865	1105		36° 45'	--	7.1	89° 50'	+3.2	-3.9		137.8		+973	+523	421,214	520,578
866	775		- -	-2.5	8.2	TH	+3.9	-4.3		137.4		+683	+367	420,924	520,422
867	445		30° 15'	--	7.0	TH	+2.2	-4.8		136.9		+394	+207	420,635	520,262
868	115		31° 50'	--	5.0	-		-5.0		136.7		+100	+56	420,341	520,111
π	0				5.1	-		-5.1		136.6	π	0	0	420,241	520,055
869	217		198° 10'	--	5.0	-		-5.0		136.7		-209	-59	420,032	519,996
871	332		198° 01' 53"	--	5.6	-		-5.6		136.1	π	-320	-89	419,921	519,964

Y=49,975X-519,955
T-Inter. EL. 136

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
1.6.85		B. Cotcamp		K. Greenfield		6834		KUL/D.S.		16		68			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		Mooiken East - 7 1/2		G.A.		Branley									
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
									141.7						
870	547		198° 20'	-2.5	6.2	-		-6.2		135.5		-526	-149	419,715	519,906
871	876		198° 00'	--	8.3	-		-8.3		133.4		-844	-234	419,397	519,821
872	1206		197° 40'	--	10.2	-		-10.2		131.5		-1164	-316	419,077	519,739
873	1536		197° 25'	--	10.1	-		-10.1		131.6		-1484	-395	418,757	519,660
874	1866		197° 20'	-2.5	11.2	-		-11.2		130.5		-1804	-478	418,437	519,579
875	2196		197° 10'	--	12.4	-		-12.4		129.3		-2124	-556	418,117	519,499
876	2526		- -	--	12.7	-		-12.7		129.0		-2441	-640	417,797	519,415
877	2856		- -	--	6.0	90° 04'	-3.3	-9.3		132.4		-2763	-723	417,478	519,332
878	3186		197° 13' 02"	--	2.2	90° 04'	-3.7	-5.9		135.8	TP	-3081	-809	417,157	519,245
878	3186			--	2.1	269° 56'	-3.7	-5.8			TP	-3	-1		
	1492		15° 54' 50"	-2.6	7.0	-		+7.0			BS	-1452	-344		
	1492			--	6.9	270°		+6.9	142.7		BS	-3	-1		
879	1162		15° 40'	--	11.1	TH	+5.8	-5.3		137.4		+1132	+263	416,834	519,163
#1	1142		15° 46' 36"	--	5.2	-		-5.2		137.5	#1	+1112	+260	416,810	519,160
880	833		15° 05'	--	5.1	-		-5.1		137.6		+813	+180	416,515	519,080
881	503		14° 20'	--	6.6	TH	+2.5	-4.1		138.6		+492	+102	416,194	519,002
882	173		12° 20'	--	5.0	TH	+0.9	-4.1		138.6		+171	+29	415,873	518,929
X	0			--	5.1	-		-5.1		137.6	X	0	0	415,702	518,900
883	157		181° 25'	-2.6	4.7	-		-4.7		138.0		-157	+3	415,545	518,903
884	486		178° 10'	--	6.9	TH	+2.4	-4.5		138.2		-485	+38	415,217	518,738

416,810 x 519,160
 Horiz. Interval 137.0
 Core. x = 8

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKER BY		LINE NO.	PAGE				
1-6-85		B Cotcamp		K. Greenfield		6834		KVG/D.S.		16	69				
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
GEORGIA		Hoboken East-7 1/2'		G.A.		Brawley									
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
									142.7						
TP	717		174° 44' 00"	-2.6	4.2	-		-4.2		138.5	TP	-710	+98	414,992	518,998
TP	717				7.8	TM	+3.6	-4.2			TP				
	1415		339° 59' 11"		+8.1	-		+8.1		146.6	BS	-1306	+544		
	1415				+1.0	BM	+7.1	+8.1			BS				
885	1319		339° 46'	-2.6	8.1	-		-8.1		138.5		+1215	-514	414,901	519,028
886	990		∨ -	∨ ∨	7.3	-		-7.3		139.3		+912	-386	414,598	519,156
887	660		- .	∨ ∨	7.4	-		-7.4		139.2		+608	-259	414,294	519,285
888	330		- .	∨ ∨	6.6	-		-6.6		140.0		+304	-129	413,990	519,413
TK	47		342° 38' 10"	∨ ∨	4.8	-		-4.8		141.8	TK	+44	-16	413,730	519,526
889	0				5.1	-		-5.1		141.5	TK	0	0	413,686	519,542
890	330		172° 00'	-2.6	5.0	-		-5.0		141.6		-1324	+61	413,362	519,603
891	659		176° 37' 55"	∨ ∨	5.6	-		-5.6			TP	-655	+69	413,031	519,611
891	659				5.5	270-		-5.5		141.1	TP				
	1475		3° 41' 34"	-2.7	+2.0	-		+2.0		143.1	BS	-1475	-26		
	1475				+9.4	TM	-7.4	+2.0			BS				
892	1145		3° 22'	∨ ∨	8.9	TM	+5.7	-3.2		137.7		+1145	+13	412,701	519,598
893	815		- -	∨ ∨	7.0	TM	+4.1	-2.9		140.2		+815	+9	412,371	519,594
894	485		- -	∨ ∨	5.9	TM	+2.4	-3.5		139.6		+485	+6	412,041	519,591
895	155		- -	∨ ∨	5.4	TM	+0.8	-4.6		138.5		+155	+2	411,711	519,587
TK	0				5.1	-		-5.1		138.0	TK	0	0	411,556	519,585

TK 47-413,725X=519,525
TK 47WAY SL. 1420

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
1-6-85		B. Cotcamp		K. Greenfield		6834		KWG/DJ.		16	70				
AREA		TOPO MAP	STATE	COUNTY	TWP	RANGE	PPM	PARTY MANAGER							
GEORGIA		Hoboken East-7 1/2	G.A.	BRANTLEY											
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH -	EAST + WEST -		Y
									143.1						
896	176		171° 45'	-2.7	5.4	-		-5.4		137.7		-173	+33	411,383	519,618
897	506		" "	" "	7.1	-		-7.1		136.0		-497	+96	411,059	519,681
898	836		" "	" "	9.1	-		-9.1		134.0		-821	+159	410,735	519,744
899	1166		171° 45'	" "	11.3	-		-11.3		131.8		-1145	+221	410,411	519,806
900	1496 1496		" "	-2.7	12.1	-		-12.1		131.0		-1469	+284	410,087	519,869
901	1826		" "	" "	12.3	-		-12.3		130.8		-1793	+347	409,763	519,932
902	2156		" "	" "	12.6	-		-12.6		130.5		-2117	+410	409,439	519,995
903	2486		171° 45'	-2.7	13.1	-		-13.1		130.0		-2441	+472	409,115	520,057
904	2816		" "	" "	13.4	-		-13.4		129.7		-2765	+535	408,791	520,120
905	3145		" "	" "	10.2	90° 04'	-3.7	-13.9		129.2		-3088	+597	408,468	520,182
906	3475		" "	" "	9.9	90° 04'	-4.0	-13.9		129.2		-3412	+660	408,144	520,245
907	3805		" "	" "	9.0	90° 04'	-4.4	-13.4		129.7		-3736	+723	407,820	520,308
TP	4057		171° 50' 47"	" "	8.8	90° 04'	-4.7	-13.5		129.6	TP	-3984	+764	407,572	520,319
TP	4057		" "	" "	8.7	269° 56'	-4.7	-13.4			TP				
	3048		3° 43' 37"	-2.7	+6.7	270°		+6.7	136.1		BS	-3048	-55		
	3048		" "	" "	+6.4	-		+6.4	+6.5		BS				
908	2969		3° 45'	" "	6.6	-		-6.6		129.5		+2768	+54	407,492	520,348
909	2640		" "	" "	6.7	-		-6.7		129.4		+2640	+48	407,164	520,342
910	2310		" "	" "	6.8	-		-6.8		129.3		+2310	+42	406,834	520,336
911	1980		" "	" "	6.8	-		-6.8		129.3		+1980	+36	406,504	520,330

Hoboken East-7 1/2
Winokur-7 1/2

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
1-6-85		B. Cotcamp		K. Greenfield		6834		RUG/D.S.		16		71			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		WINDSOR-7 1/2'		G.A.		BRANTLEY									
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
									136.1						
912	1650		3° 45'	-27°	6.9	-		-6.9		129.2		+1650	+30	406,174	520,324
913	1320		" "	" "	6.7	-		-6.7		129.4		+1320	+24	405,844	520,318
914	990		" "	" "	6.2	-		-6.2		127.9		+990	+18	405,514	520,312
915	660		" "	" "	9.2	TH	+3.3	-5.9		130.2		+660	+12	405,184	520,306
916	330		" "	" "	7.0	TH	+1.7	-5.3		130.8		+330	+6	404,854	520,300
917	0				5.1	-		-5.1		131.0	TP	0	0	404,524	520,294
918	330		183° 55'	-27°	5.6	TH	+1.7	-3.9		132.2		-330	-7	404,194	520,287
919	660		" "	" "	6.0	TH	+3.3	-2.7		133.4		-660	-14	403,864	520,280
11'	816		183° 37' 31"	" "	2.3	-		-2.3		133.8	11'	-816	-13	403,708	520,281
920	990		183° 55'	" "	8.3	TH	+5.0	-3.3		132.8		-990	-21	403,534	520,273
921	1320		" "	" "	11.1	TH	+6.6	-4.5		131.6		-1320	-28	403,204	520,266
922	1650		" "	" "	6.1	-		-6.1		130.0		-1650	-35	402,874	520,259
923	1980		183° 55'	-27°	8.7	-		-8.7		127.4		-1980	-42	402,544	520,252
924	2310		" "	" "	11.1	-		-11.1		125.0		-2309	-49	402,215	520,245
925	2640		" "	" "	12.2	-		-12.2		123.9		-2639	-56	401,885	520,238
926	2970		" "	" "	12.1	-		-12.1		124.0		-2969	-63	401,555	520,231
927	3299		183° 55' 07"		12.9	-		-12.9			TP	-3298	-70	401,226	520,224
927	3299				12.6	270-		-12.6	123.3	123.3	TP				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
1-9-85		B. Cotcamp		R. Greenfield		6834		KWE/DJ		16	7/2			
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER			
GEORGIA		Winokur - 7 1/2'		GA.		BRANTLEY					D. SHAPELDEEN			
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.	
										123.3				
	1318		2° 40' 10"	-27°	4.4	-		+4.4	127.7		BS	-1318	+1	
	1318				11.0	TH	-6.6	+4.4		BS				
928	988		2° 15'	--	10.1	TH	+4.9	-5.2		122.5		+988	-8	400,896 520,217
929	658		1° 20'	--	7.6	TH	+3.3	-4.3		123.4		+658	-16	400,566 520,207
930	329		359° 05'	--	5.7	TH	+1.6	-4.1		123.6		-328	-21	400,236 520,204
931	0				5.1	-		-5.1		122.6	X	0	0	399,908 520,225
Bm	147		176° 57' 54"	-27	4.4	-		-4.4		123.3	Bm	-146	-15	399,762 520,240
932	330		167° 40'	--	5.4	-		-5.4		122.3		-319	+86	399,589 520,311
933	660		167° 10'	--	6.8	-		-6.8		120.9		-636	+177	399,272 520,402
934	990		167° 05'	--	9.5	-		-9.5		118.2		-953	+267	398,973 520,492
935	1320		167° 15'	--	11.8	-		-11.8		115.9		-1272	+352	398,636 520,577
TP	1381		167° 10' 40"	--	10.8	-		-10.8	116.9		TP	-1331	+370	398,577 520,595
TP	1381				3.9	BH	-6.9	-10.8		TP				
	1478		1° 18' 52"	-27	6.1	-		+6.1	123.0		BS	-1478	+36	
	1478				6.0	270°		+6.0		BS				
936	1209		1° 15'	--	6.8	-		-6.8		116.2		+1209	-31	398,308 520,600
937	879		"	--	7.3	-		-7.3		115.7		+879	-22	399,978 520,609
938	550		"	--	8.3	-		-8.3		114.7		+550	-14	399,649 520,617
939	220		359° 40'	--	6.8	-		-6.8		116.2		+220	-12	399,319 520,619
X	0				5.1	-		-5.1		117.9	X	0	0	399,099 520,631

5-579,800 x 520,235
U.S.G.S. AN. FL. 124.0

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
1-8-85		B. Cotcamp		K. Greenfield		6834		KUG/P.S.		16		73				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
GEORGIA		Winokur-7 1/2		G.A.		Brawley								D. SKABELDEEN		
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
									123.0							
JL.	66		148° 47' 47"	-2.7°	4.4	-		-4.4		118.6	JL.	-55	+37	397,044	520,668	y = 397,000 x - 520,686 y - TP 16 EL. 119.0
940	114		155° 50'	"	4.7	-		-4.7		118.3		-102	+52	396,997	520,663	
941	444		155° 05'	"	5.2	-		-5.2		117.8		-393	+206	396,706	520,837	
942	774		"	"	6.1	-		-6.1		116.9		-686	+359	396,413	520,990	
943	1104		"	"	9.0	-		-9.0		114.0		-978	+512	396,121	521,143	
944	1434		154° 50'	-2.7°	10.2	-		-10.2		112.8		-1268	+670	395,831	521,301	
945	1764		"	"	5.0	BH	-8.8	-13.8		109.2		-1559	+825	395,540	521,456	
946	2093		"	"	5.2	BH	-10.5	-15.7		107.3		-1850	+978	395,249	521,609	
947	2423		"	"	6.0	BH	-12.1	-18.1		104.9		-2142	+1133	394,957	521,764	
TP	2557		154° 51' 01"	"	5.3	BH	-12.8	-18.1		104.9	TP	-2261	+1195	394,838	521,826	
TP	2557		"	"	5.2	BH 20'	-12.8	-18.0			TP					
	1768		4° 42' 06"	-2.7°	3.6	TH	-8.8	-5.2	99.7		BS	-1767	-62			
	1768		"	"	3.5	TH 10'	-8.8	-5.3				BS				
948	1570		4° 40'	"	8.8	89° 30'	+13.7	+4.9		104.6		+1569	+54	394,640	521,818	
949	1240		"	"	5.8	89° 30'	+10.8	+5.0		104.7		+1239	+43	394,310	521,807	
950	910		"	"	5.1	89° 30'	+7.9	+2.8		102.5		+909	+31	393,980	521,795	
951	580		"	"	7.2	89° 10'	+8.4	+1.2		100.9		+580	+20	393,651	521,784	
HI	558		5° 20' 25"	"	7.0	89° 10'	+8.1	+1.1		100.8	HI	+557	+26	393,628	521,790	x = 393,640 y = 521,770 HI - TP 16 EL. 100.6
952	250		4° 40'	"	6.4	89° 10'	+3.6	-2.8		96.9		+250	+9	393,321	521,773	
K	0		"	"	5.1	-		-5.1		94.6	K	0	0	393,071	521,764	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
1-10-85		B. Cotcamp		K. Greenfield		6834		KWA / D.S.		16		74			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Georgia		Winokur-7/2'		G.A.		Brantley								D. SMACel. 0000	
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
									99.7						
953	80		200° 35'	-2.7°	6.5	89° 50'	+0.2	-6.3		93.4		-16	-25	392,995	521,739
954	410		203° 40'	"	7.2	89° 50'	+1.2	-6.0		93.7		-383	-147	392,688	521,617
955	738		201° 51' 00"	-2.4°	5.5	89° 50'	+2.1	-3.4		96.3	TP	-696	-246	392,375	521,518
955	738				3.4	-		-3.4			TP				
	660		11° 23' 08"	"	9.6	-		+9.6	105.9		BS	-652	-103		
	660				6.3	BH	+3.3	+9.6			BS				
956	330		12° 00'	"	6.4	-		-6.4		99.5		+325	+55	392,048	521,470
957	0				5.1	-		-5.1		100.8	T	0	0	391,723	521,415
958	330		199° 15'	-2.4°	5.3	-		-5.3		100.6		-316	-96	391,407	521,319
959	660		"	"	6.2	-		-6.2		99.7		-632	-191	391,291	521,224
960	990		199° 32' 06"	"	7.8	-		-7.8		98.1	TP	-946	-292	390,777	521,123
960	990				2.8	BH	-5.0	-7.8			TP				
	2367		18° 59' 09"	-2.4°	7.0	BH	+11.5	+18.5	116.6		BS	-2211	-659		
	2367				6.9	BH 270°	11.5	+18.4			BS				
961	1977		18° 58'	"	11.7	BH	-9.9	-21.6		95.0		+1895	+564	390,461	521,028
962	1647		"	"	12.2	90° 20'	-9.6	-21.8		94.8		+1579	+470	390,145	520,934
963	1317		"	"	11.5	90° 20'	-7.7	-19.2		97.4		+1262	+376	389,828	520,840
964	988		18° 58'	"	8.8	90° 20'	-5.6	-14.6		102.0		+947	+282	389,513	520,746
965	659		"	"	8.1	90° 20'	-3.8	-11.9		104.7		+632	+188	389,198	520,652
966	330		"	"	8.1	-		-8.1		108.5	T	+316	+94	388,882	520,558

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
1-10-85		B. Cotcamp		K. Greenfield		6834		KWK / D.S.		16		75			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		Winokur-7/2'		G.A.		Brentley								D. SHADEBEE	
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
									116.6						
967	0				5.1	-		-5.1		111.5	X	0	0	388,566	520,464
IF	200		197° 32' 30"	-2.4	4.0	-		-4.0		112.6	IF	-193	-52	388,373	520,412
968	330		195° 55'	"	5.1	TH	+1.7	-3.4		113.2		-321	-77	388,245	520,387
969	660		"	"	6.0	TH	+3.3	-2.7		113.9		-642	-154	387,924	520,310
970	990		"	"	7.2	TH	+5.0	-2.2		114.4		-963	-231	387,603	520,233
971	1319		195° 31' 36"	"	1.9	-		-1.9		114.7	TP	-1285	-300	387,281	520,164
971	1319		"	"	1.9	270°		-1.9			TP				
	1452		20° 31' 14"	-2.4	+1.7	-		+1.7	116.4		BS	-1380	-452		
	1452		"	"	+9.0	TH	-7.3	+1.7			BS				
972	1122		20° 40'	"	8.1	TH	+5.6	-2.5		113.9		+1065	+352	386,966	520,064
973	792		"	"	7.3	TH	+4.0	-3.3		113.1		+752	+248	386,653	519,960
974	462		"	"	6.2	TH	+2.3	-3.9		112.5		+439	+145	386,340	519,857
975	132		"	"	5.1	TH	+0.7	-4.4		112.0		+125	+41	386,026	519,753
X	0				5.1	-		-5.1		111.3	X	0	0	385,901	519,712
976	198		198° 40'	-2.4	4.8	-		-4.8		111.6		-190	-55	385,711	519,657
977	524		191° 21' 21"	"	4.6	-		-4.6		111.8	TP	-518	-82	385,383	519,630
977	524		"	"	7.2	TH	+2.6	-4.6			TP				
	1113		355° 31' 35"	"	+9.6	TH	-5.6	+4.0	115.8		BS	-1105	+133		
	1113		"	"	+9.5	TH 270°	-5.6	+3.9			BS				

388,300 x 520,375
T-INTER. EL. 113.0

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE		
1-10-85		B. Cotcamp		K. Greenfield		6834		KWL / D.S.		16		76		
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		
GEORGIA		Winokur-7 1/2		G.A.		BRANTLEY						PARTY MANAGER D. SHADLER DEAN		
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.	
									115.8					
978	784		354° 50'	-2.4	8.1	TH	+3.9	-4.2		111.6		+777	-103	385,055 519,660
979	454		353° 50'	--	6.5	TH	+2.3	-4.2		111.6		+449	-68	384,727 519,695
980	125		350° 45'	--	4.8	TH	+0.6	-4.2		111.6		+72	-25	384,400 519,738
X	0				5.1	-		-5.1		110.7	X	0	0	384,278 519,763
981	202		119° 10'	--	6.3	-		-6.3		109.5		-91	-180	384,187 519,943
982	530		115° 25'	--	11.2	TH	+2.7	-8.5		107.3		-207	+488	384,071 520,251
TP	813		115° 49' 10"	-2.5	9.1	-		-9.1		106.7	TP	-322	+747	383,956 520,510
TP	813				13.2	TH	+4.1	-9.1			TP			
	1305		330° 00' 23"	--	+8.8	89° 20'	-15.2	-6.4			BS	-1101	+701	
	1305				+12.1	89° 10'	-19.0	-6.3		100.4	BS			
983	1254		329° 35'	-2.5	9.1	89° 20'	+14.6	+5.5		105.9		+1053	-681	383,908 520,530
984	924		-	--	6.8	89° 20'	+10.7	+3.9		104.3		+776	-502	383,631 520,709
985	594		-	--	5.9	89° 20'	+6.9	+1.0		101.4		+499	-323	383,354 520,888
986	264		-	--	4.6	89° 20'	+3.1	-1.5		98.9		+222	-143	383,077 521,068
X	0				5.1	-		-5.1		95.3	X	0	0	382,855 521,211
987	67		178° 05'	-2.5	5.3	-		-5.3		95.1		-67	+5	382,788 521,216
988	397		-	--	8.9	-		-8.9		91.5		-396	+31	382,459 521,242
989	727		-	--	10.6	-		-10.6		89.8		-725	+56	382,130 521,267
TP	1004		178° 18' 51"	--	8.2	-		-8.2		92.2	TP	-1001	+73	381,854 521,284
TP	1004				13.2	TH	+5.0	-8.2			TP			

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
1-10-85		B. Cotcamp		K. Greenfield		6834		D.S.		16		77			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		Winokur - 7 1/2'		G.A.		BRANTLEY								D. SHARPELDEEN	
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
										92.2					
	1508		26° 11' 54"	-2.5	14.7	-		+14.7	106.8		BS	-1381	-606		
	1508				+14.4	270'		+14.4		BS					
990	1453		26° 00'	--	11.3	90° 06'	-2.5	-13.8		93.0		+1332	+579	381,805	521,257
991	1124		25° 10'	--	8.2	90° 06'	-2.0	-10.2		96.6		+1037	+433	381,510	521,111
992	795		23° 10'	--	11.2	TH	+4.0	-7.2		99.6		+744	+281	381,217	520,959
993	469		24° 30'	--	5.9	-		-5.9		100.9		+435	+176	380,908	520,854
994	139		-	--	5.4	-		-5.4		101.4		+129	+52	380,602	520,730
Σ	0				5.1	-		-5.1		101.7	Σ	0	0	380,473	520,678
995	189		210° 00'	-2.5	3.9	BH	-0.9	-4.8		102.0		-168	-37	380,305	520,591
R	34		193° 55' 33"	--	5.4	-		-5.4		101.4		-33	-7	380,440	520,671
TP	273		212° 58' 48"	--	3.4	BH	-1.4	-4.8	}	102.0	TP	-235	-138	380,238	520,540
TP	273			--	4.8	90°		-4.8			TP				
	1678		5° 42' 41"	-2.5	1.7	-		+1.7	}	103.7	BS	-1675	-94		
	1678			--	10.1	TH	-8.4	+1.7			BS				
996	1442		5° 45'	--	10.2	TH	+7.2	-3.0		100.7		+1440	+82	380,003	520,528
997	1113		-	--	10.6	TH	+5.6	-5.0		98.7		+1111	+63	379,674	520,509
998	784		-	--	8.9	-		-8.9		94.8		+783	+44	379,346	520,490
999	454		-	--	12.2	-		-12.2		91.5		+453	+26	379,016	520,472
1000	126		358° 10'	--	8.0	-		-8.0		95.7		+126	-10	378,689	520,436
Σ	0				5.1	-		-5.1		98.6	Σ	0	0	378,563	520,446

Y = 380,440 X = 520,685

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
1. 10.85		B. Cotcamp		K. Greenfield		6834		D.S. / B.C.		16		78			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		Winokur - 7 1/2'		G.A.		Brantley								D. SHABOEN	
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
									103.7						
1001	211		203° 15'	-2.5	4.2	89° 30'	+1.8	-2.4		101.3		-197	-75	378,366	520,371
1002	540		201° 25'	--	4.5	89° 30'	+4.7	+0.2		103.9		-511	-175	378,052	520,271
1003	870		201° 10'	--	5.9	89° 30'	+7.6	+1.7		105.4		-824	-278	377,739	520,168
1004	1200		- - -	--	8.2	89° 30'	+10.5	+2.3		106.0		-1137	-384	377,426	520,062
±1	1385		200° 46' 24"	--	9.8	89° 30'	+12.1	+2.3		106.0	TP	-1315	-434	377,248	520,012
±1	1385				13.8	89° 20'	+16.1	+2.3			TP				
	886		276° 18' 41"	-2.5	4.2	TH	-4.4	-0.2		105.8	BS	-59	+884		
	886				+4.1	TH 210°	-4.4	-0.3			BS				* 886' OFFSET EAST BETWEEN STA. 1004 + 1005
X	0				5.1	-	-	-5.1		100.7	X	0	0	377,189	520,896
1005	131		182° 50'	--	5.3	-	-	-5.3		100.5		-131	-1	377,058	520,895
1006	461		- - -	--	6.8	-	-	-6.8		99.0		-461	-3	376,728	520,893
1007	791		- - -	--	7.2	-	-	-7.2		98.6		-791	-5	376,398	520,891
±1	974		182° 32' 05"	--	7.1	-	-	-7.1		98.7	±1	-974	-1	376,215	520,895
1008	1120		182° 55' 16"	--	8.3	-	-	-8.3		97.5	TP	-1120	-8	376,069	520,888
1008	1120				2.7	BH	-5.6	-8.3			TP				
	2441		2° 56' 41"	-2.5	5.4	TH	-12.2	-6.8		90.6	BS	-7441	-19		
	2441				+5.1	TH 210°	-12.2	-7.1		-6.9	BS				
1009	2112		3° 02'	--	4.8	TH	+10.6	+5.8		96.4		+2112	+20	375,740	520,889
1010	1782		- - -	--	4.2	TH	+8.9	+4.7		95.3		+1782	+17	375,410	520,886
1011	1452		- - -	--	4.3	TH	+7.3	+3.0		93.6		+1452	+14	375,080	520,883

y = 377240 x = 520,000
T - ROAD EAST EL. 107.0

* 886' OFFSET EAST BETWEEN STA. 1004 + 1005

±1 - 376,230 x = 520,895
T - ROAD CL. 98.0

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 1.10.85	INSTRUMENT MAN B. Cotcamp	ROD MAN K. Greenfield	PARTY NUMBER 6834	NOTES CHECKED BY B.C.W	LINE NO. 16	PAGE 79
AREA GEORGIA	TOPO MAP Winokur-1/2'	STATE G.A.	COUNTY BRANTLEY	TWP	RANGE	PPM
				PARTY MANAGER D. SHAGOLEW		

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			
									90.6									
1012	1122		3° 05'	-25°	5.2	TH	+5.6	-0.4		90.2		+1122	+11	374,750	520,880			
1013	792		- -	- -	8.2	TH	+4.0	-4.2		86.4		+792	+8	374,420	520,877			
1014	462		- -	- -	6.2	-		-6.2		84.4		+462	+5	374,090	520,874			
1015	132		- -	- -	5.7	-		-5.7		84.9		+132	+1	373,760	520,870			
TP	0				5.1	-		-5.1		85.5	TP	0	0	373,628	520,869		10373625 X 520875	
1016	226		266° 35'	-2.5°	4.6	89° 20'	+2.6	-2.0		88.6		-23	-225	373,605	520,644		10373625 X 520875	
1017	556		- -	- -	5.5	89° 20'	+6.5	+1.0		91.6		-57	-553	373,571	520,316			
1018	886		- -	- -	6.8	89° 20'	+10.3	+3.5		94.1		-91	-881	373,537	519,988			
1019	1216		- -	- -	7.8	89° 20'	+14.1	+6.3		96.9		-125	-1210	373,503	519,659			
1020	1546		- -	- -	8.8	89° 20'	+18.0	+9.2		99.8		-159	-1538	373,469	519,331			
1021	1876		- -	- -	9.2	89° 20'	+21.8	+12.6		103.2		-193	-1866	373,435	519,003			
1022	2206		- -	- -	10.0	89° 20'	+25.7	+15.7		106.3		-227	-2194	373,401	518,675			
1023	2535		266° 33' 11"	- -	11.3	89° 20'	+29.5	+18.2		108.8		-263	-2521	373,365	518,348			
1023	2535				4.0	89° 30'	+22.1	+18.1			TP							

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE						
11-2-85		B. Cotnam		K. Greenfield		6834		B.C. [initials]		16		80						
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER				
GEORGIA		Winkler-7 1/2'		G.A.		Brantley								D. SHABLOEEN				
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			
									108.8						373,365	518,348		
	1411		86° 29' 35"	-2.5	+9.2	BH	+7.1	+16.3	125.0		BS	-148	-1403					
	1411				+9.1	BH 270°	+7.1	+16.2		BS				+				
1024	1081		86° 30'	--	12.8	-		-12.8		112.2		+113	+1075	373,330	518,021			
1025	751		--	--	9.8	-		-9.8		115.2		+79	+747	373,296	517,693			
1026	421		--	--	7.8	-		-7.8		117.2		+44	+419	373,260	517,365			
1027	91		--	--	5.8	-		-5.8		119.2		+10	+91	373,229	517,037			
TP	0				5.1	-		-5.1		119.9	TP	0	0	373,219	516,946	#	5-373,235x-516,946	
1028	232		166° 45'	-2.5	5.4	-		-5.4		119.6		-223	+63	372,994	517,009			
1029	562		--	--	6.1	-		-6.1		118.9		-541	+153	372,676	517,099			
1030	892		--	--	6.3	-		-6.3		118.7	TP	-859	+242	372,358	517,188			
TP	1147	1147	171° 49' 04"	--	6.0	-		-6.0		119.0	TP	-1127	+213	372,090	517,160			
TP	1147				5.9	270°		-5.9			TP		"					
	1480		44° 28' 47"	-2.5	+11.6	-		+11.6	130.6		BS	-1100	-990					
	1480				+11.6	270°		+11.6		BS				+				
1031	1429		44° 40'	--	11.8	-		-11.8		118.8		+1059	+959	372,049	517,130			
1032	1099		45° 10'	--	11.0	-		-11.0		119.6		+808	+745	371,798	516,916			
1033	769		--	--	9.0	-		-9.0		121.6		+565	+521	371,555	516,692			
1034	439		--	--	7.7	-		-7.7		122.9		+323	+298	371,313	516,469			
1035	110		42° 15'	--	5.0	-		-5.0		125.6		+85	+70	371,075	516,241			
TP	0				5.1	-		-5.1		125.5	TP	0	0	370,990	516,171			

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
1-12-85		B. Catcamp		K. Greenfield		6834		B.C. 6		16		81			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		Wino Kur - 7/2		G.A.		BRANTLEY								D. SMADROGER	
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
									130.6						
1036	235		174° 10'	-2.5°	4.8	TH	+1.2	-3.6		127.0		-233	+34	370,757	516,205
1037	565		173° 10'	--	6.0	TH	+2.8	-3.2		127.4		-558	+92	370,432	516,263
1038	895		" "	--	7.2	TH	+4.5	-2.7		127.9		-883	+145	370,107	516,316
1039	1225		173° 15'	--	9.0	TH	+6.1	-2.9		127.7		-1209	+177	369,781	516,368
1040	1539		177° 03' 23"	--	9.4	TH	+7.7	-1.7			TP	-1532	+146	369,458	516,318
1040	1539				9.6	TH ₂₇₀	+7.7	-1.9		128.8	TP		"		
	2123		18° 38' 06"	-2.5°	10.2	-		+10.2			BS	-2039	-590		
	2123				10.1	270°		+10.1		138.9	BS		"		
1041	1793		18° 38'	--	10.0	-		-10.0		128.9		+1722	+498	369,141	516,227
1042	1463		" "	--	8.3	-		-8.3		130.6		+1405	+407	368,824	516,136
#	1259		19° 02' 54"	--	6.8	-		-6.8		132.1	#	+1207	+359	368,626	516,088
1043	1133		18° 38'	-2.5°	7.1	-		-7.1		131.8		+1088	+315	368,507	516,044
1044	803		" "	--	6.2	-		-6.2		132.7		+771	+223	368,190	515,952
1045	473		" "	--	6.0	-		-6.0		132.9		+454	+131	367,873	515,860
1046	143		" "	--	5.6	-		-5.6		133.3		+137	+40	367,556	515,769
π	0				5.1	-		-5.1		133.8	π	0	0	367,419	515,729
1047	194		234° 55'	-2.5°	5.0	TH	+1.0	-4.0		134.9		-118	-154	367,301	515,575
1048	524		" "	--	4.8	TH	+2.6	-2.2		136.7		-320	-415	367,099	515,314
1049	854		" "	--	5.4	TH	+4.3	-1.1		137.8		-521	-677	366,898	515,052
1050	1184		" "	--	6.5	TH	+5.9	-0.6		138.3		-722	-938	366,697	514,791

ILS-368620X-516,090
Tr 4 Way Inter. E.L. 1320

Brantley County ↑
County ↓

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		SHEET NO.		PAGE			
1-12-85		B. Costamp		K. Greenfield		6834		B.C.W		16		82			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		Winokur - 7 1/2'		G.A.		CHARLTON								D. SHABER DEER	
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
									138.9						
1051	1513		234° 55'	-2.5°	7.9	TH	+7.6	-0.3		138.6		-923	-1199	366,496	514,530
TP	1802		234 14 08	--	8.3	TH	+9.0	+0.7		139.6	TP	-1116	-1415		
TP	1802				8.2	TH 20"	+9.0	+0.8			TP	+2	+1	366,305	514,315
	3195		0° 35' 40"	-2.5°	7.9	-	-	+7.9	147.3		BS	-3193	+106		
	3195				+14.9	89° 52' 06"	-7.3	+7.6	+7.73		BS	+2	+1		
1052	3142		0° 40'	--	7.7	-	-	-7.7		139.6		+3140	-101	366,254	514,321
1053	2812		✓ -	--	6.0	-	-	-6.0		141.3		+2811	-90	365,925	514,332
1054	2482		✓ -	--	5.2	-	-	-5.2		142.1		+2481	-79	365,595	514,343
1055	2152		0° 40'	--	4.8	-	-	-4.8		142.5		+2151	-69	365,265	514,353
1056	1822		✓ -	-2.5°	13.3	TH	+9.1	-4.2		143.1		+1821	-58	364,935	514,364
1057	1492		✓ -	--	11.2	TH	+7.5	-3.7		143.6		+1491	-48	364,533	514,374
1058	1162		0° 40'	--	9.7	TH	+5.8	-3.9		143.4		+1161	-37	364,275	514,385
1059	832		✓ -	--	8.2	TH	+4.2	-4.0		143.3		+832	-27	363,946	514,395
1060	502		✓ -	--	6.3	TH	+2.5	-3.8		143.5		+502	-16	363,616	514,406
1061	173		✓ -	--	4.7	-	-	-4.7		142.6		+173	-6	363,287	514,416
TP	0				5.1	-	-	-5.1		142.2	A	0	0	363,114	514,422
A	100		95° 49' 57"	-2.5°	6.0	-	-	-6.0		141.3	A	-6	+100	363,108	514,522
1062	157		181° 10'	--	5.3	-	-	-5.3		142.0		-157	+4	362,957	514,426
1063	485		180° 15'	--	5.3	-	-	-5.3		142.0		-485	+19	362,656	514,441
1064	815		✓ -	--	5.7	-	-	+5.7		141.6		-814	+32	362,300	514,454

3 -363,125 x -514,420
 A -363,105 x -514,540
 EL. 142.0

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	1-12-85	INSTRUMENT MAN	B. Cotcamp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	B.C.W	LINE NO.	16	PAGE	83	
AREA	GEORGIA	TOPO MAP	NEWELL / DOUBLE LAKES	STATE	G.A.	COUNTY	CHARLTON	TWP		RANGE		PPM	PARTY MANAGER	D. SHAELEDEEN

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.	
									147.3					
1065	1145		180° 05'	-2.5°	6.2	-		-6.2		141.1		-1144	+48	361,970 514,470
TP	1606		180° 35' 49"	-2.8°	11.6	74	+8.0	-3.6			TP	-1605	+62	361,511 514,485
TP	1606				3.7	-		-3.7		143.6	TP	+2	+1	361,511 514,485
	2399		35° 59' 42"	-	5.1	96° 08'	+5.6	+10.7		154.1	BS	-2008	-1313	
	2399				4.8	269° 52'	+5.6	+10.4		145.3	BS	+2		
1066	2486		29° 51'	-2.8°	4.9	90° 08'	-5.8	-10.7		143.4		+2214	+1131	361,719 514,303
#	2382		31° 21' 20"	-	5.6	90° 06'	-4.2	-9.8		144.3	#	+2092	+1139	361,597 514,311
1067	2309		344° 05'	-	4.3	-		-4.3		149.8		+2187	-741	361,692 512,431
1068	1980		-	-	4.2	-		-4.2		149.9		+1875	-635	361,380 512,537
1069	1650		-	-	4.3	-		-4.3		149.8		+1563	-529	361,060 512,643
1070	1320		344° 05'	-2.8°	4.2	-		-4.2		149.9		+1250	-424	360,755 512,748
1071	990		-	-	4.1	-		-4.1		150.0		+938	-318	360,443 512,854
1072	660		-	-	4.2	-		-4.2		149.9		+625	-212	360,130 512,960
1073	320		-	-	5.1	-		-5.1		149.0		+313	-106	359,818 513,066
1074	0				5.1	-		-5.1		149.0	T	0	0	359,505 513,172
1075	330		164° 10'	-2.8°	5.2	-		-5.2		149.9		-313	+105	359,192 513,277
1076	660		-	-	5.4	-		-5.4		149.7		-625	+211	358,860 513,383
1077	990		-	-	5.9	-		-5.9		148.2		-938	+316	358,567 513,488
1078	1320		-	-	5.6	-		-5.6		148.5		-1251	+422	358,254 513,594
1079	1650		-	-	6.2	-		-6.2		147.9		-1564	+527	357,941 513,699

3 - 361,620 x - 514,310
4 way Int.

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
1-12-85		B. Cotcamp		K. Greenfield		6834		B.C. W		16		84			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		Newell / Double Lakes		G.A.		CHARLTON								O. SHABELDEN	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH -	EAST + WEST -		Y
									154.1						
1080	1980		164° 10'	-2.8°	6.7	-		-6.7		147.4		-1876	+633	357,629	513,805
1081	2310		-	--	7.0	-		-7.0		147.1		-2189	+738	357,316	513,910
1082	2638		164° 17' 48"	--	7.4	-		-7.4		146.7	TP	-2502	+837	357,005	514,009
1082	2638				9.9	270° 03' 22"	+2.6	-7.3			TP	+2		357,005	
	1435		86° 30' 20"	-2.8°	+11.9	TH	-7.2	+4.7	151.4		BS	-157	-1426		
	1435				+12.0	TH 270°	-7.2	+4.8			BS	+2			
11	60		100° 35' 46"	--	4.6	-		-4.6		146.8		-8	+59	356,842	512,642
TP	0				5.1	-		-5.1		146.3	TP	0	0	356,850	512,583
TP	1457		273° 17' 51"	--	6.2	-		-6.2		145.2	TP	+13	-1457	356,865	511,126
TP	1457				135	TH	+7.3	-6.2			TP	+2			
	2866		2° 37' 01"	-2.8°	+4.0	-		+4.0			BS	-2866	+9		
	2866				+3.9	270°	-	+3.9	149.1		BS	+2			
1083	2639		2° 40'	--	6.3	89° 36'	+3.1	-3.2		145.9		+2639	-6	356,640	511,129
1084	2310		-	--	5.7	89° 56'	+2.7	-3.0		146.1		+2316	-5	356,311	511,130
1085	1980		-	--	5.9	89° 56'	+2.3	-3.6		145.5		+1980	-5	355,981	511,130
1086	1650		-	-2.8°	5.4	89° 56'	+1.9	-3.5		145.6		+1650	-4	355,651	511,131
1087	1320		-	--	4.8	89° 56'	+1.5	-3.3		145.8		+1320	-3	355,321	511,132
1088	990		-	--	6.2	89° 56'	+2.9	-3.3		145.8		+990	-2	354,991	511,133
1089	660		-	--	6.0	89° 50'	+1.9	-4.1		145.0		+660	-2	354,661	511,133
1090	330		-	--	6.0	89° 50'	+1.0	-5.0		144.1		+330	-1	354,331	511,134

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
1-12-85		B. Cotcamp		K. Greenfield		6834		BCL		16		85			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		DOUBLE LAKES-7 1/2'		G.A.		CHARLTON								D. SHADLER	
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
									149.1						
1091	0				5.1	-		-5.1		144.0	X	0	0	354,001	511,135
1092	330		183° 10'	-2.8°	5.9	-		-5.9		143.2		-330	-2	353,671	511,133
1093	660		" "	" "	3.8	BM	-3.3	-7.1		142.0		-660	-4	353,341	511,131
1094	990		" "	" "	3.8	BM	-5.0	-8.8		140.3		-990	-6	353,011	511,129
1095	1320		" "	" "	5.6	90° 08'	-3.1	-8.7		140.4		-1320	-8	352,681	511,127
1096	1650		" "	" "	5.7	90° 08'	-3.8	-9.5		139.6		-1650	-11	352,351	511,124
1097	1979		182° 28' 31"	" "	5.2	90° 08'	-4.6	-9.8		139.3	TP	-1979	+11	352,024	511,146
1097	1979		" "	" "	5.3	269° 52'	-4.6	-9.9			TP		+2		
	3138		356° 14' 16"	-2.8°	8.1	-		+8.1	147.4		BS	-3117	+359		
	3138		" "		+8.0	270°		+8.0			BS		+3		
1098	2809		356° 20'	" "	5.4	90° 04'	-3.3	-8.7		138.7		+2791	-316	351,701	511,189
1099	2479		" "	" "	5.3	90° 04'	-2.9	-8.2		139.2		+2463	-279	351,393	511,226
1100	2149		" "	" "	4.8	90° 04'	-2.5	-7.3		140.1		+2135	-242	351,045	511,263
1101	1819		" "	" "	5.8	90° 02'	-1.1	-6.9		140.5		+1807	-205	350,717	511,300
1102	1489		356° 20'	-2.8°	5.8	90° 02'	-0.9	-6.7		140.7		+1480	-168	350,370	511,337
1103	1159		" "	" "	6.0	90° 02'	-0.7	-6.7		140.7		+1152	-131	350,062	511,374
1104	829		" "	" "	5.7	90° 02'	-0.5	-6.2		141.2		+824	-93	349,734	511,412
1105	499		" "	" "	5.6	-		-5.6		141.8		+496	-56	349,406	511,449
1106	169		" "	" "	5.1	-		-5.1		142.3		+168	-19	349,078	511,486
A	41		328° 46' 26"	" "	4.3	-		-4.3		143.1	A	+34	-23	348,744	511,482

y=348,975 x=511,490
N 75 1/2' 1985
U.S.G.S. PL. 14215

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
1-12-85		B. Cotcamp		K. Greenfield		6834		KMG		16		86				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
GEORGIA		DOUBLE LAKES-7 1/2		GA.		CHARLTON								D. SHADELOREN		
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
									147.4							
1107	0				5.1	-		-5.1		142.3	X	0	0	348,910	511,505	TP y - 348,910 x - 511,505
1107	160		170° 25'	-2.8°	5.7	89° 50'	+0.5	-5.2		142.2		-156	+34	348,754	511,539	Horiz y +21 Corr. x +8
1108	490		169° 41'	..	6.2	89° 50'	+1.4	-4.8		142.6		-477	+111	348,433	511,616	
1109	820		-	..	6.4	89° 54'	+1.4	-5.0		142.4		-799	+186	348,111	511,691	
1110	1150		-	..	5.6	-		-5.6		141.8		-1120	+261	347,790	511,766	
1111	1480		169° 41'	-2.8°	5.7	-		-5.7		141.9		-1441	+336	347,469	511,841	
1112	1810		-	..	5.8	-		-5.8		141.6		-1763	+411	347,147	511,916	
1113	2140		-	..	5.5	-		-5.5		141.9		-2084	+486	346,826	511,991	
1114	2470		169° 41'	..	5.5	-		-5.5		141.9		-2406	+561	346,504	512,066	
1115	2800		-	..	5.1	-		-5.1		142.3		-2727	+635	346,183	512,140	
1116	3130		169° 45' 30"	-2.8°	4.0	-		-4.0		143.4	TP	-3049	+706	345,860	512,210	
1116	3130				3.9	270°		-3.9			TP	-	-			
	1979		348° 11' 06"	..	8.2	-		+8.2			BS	-1915	+499			
	1979				8.3	270°		+8.3	151.6		BS	-	-			
1117	1649		347° 50'	..	7.5	-		-7.5		144.1		+1593	-426	345,537	512,282	
1118	1319		347° 15'	..	6.6	-		-6.6		145.0		+1271	-354	345,215	512,354	
1119	990		346° 50'	..	5.3	-		-5.3		146.3		+952	-272	344,896	512,436	
1120	824		346° 34' 12"	..	5.0	-		-5.0		146.6	TP	+792	-226	344,736	512,482	
1120	660		346° 50'	..	8.2	TH	+3.3	-4.9		146.7		+635	-182	344,579	512,526	
1121	330		-	..	5.0	-		-5.0		146.6		+317	-91	344,261	512,617	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO		PAGE			
1-13-85		B. Cotnam		K. Greenfield		6834		JUG		16		87			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		DOUBLE LAKES INWELL		GA.		CHARLTON								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
									151.6						
1122	0				5.1	-		-5.1		146.5	TP	0	0	343,944	512,708
1123	330		167° 35'	-2.8°	5.3	-		-5.3		146.3		-318	+87	343,626	512,795
1124	660		"	"	6.2	-		-6.2		145.4		-637	+173	343,307	512,881
1125	990		"	"	6.7	-		-6.7		144.9		-955	+260	342,989	512,968
1126	1320		167° 25'	"	5.7	-		-5.7		145.9		-1273	+350	342,671	513,058
1127	1648		165° 59' 01"	"	5.5	-		-5.5			TP	-1578	+477	342,365	513,184
1127	1648		"	"	5.7	-270		-5.7	-5.6	146.0	TP	-	-		
	2279		340° 29' 59"	-2.8°	4.7	-		+4.7	150.7		BS	-2109	+865		
	2279		"	"	4.6	-270		+4.6			BS	-	-		
1128	1949		340° 30'	"	5.0	-		-5.0		145.7		+1803	-740	342,058	513,308
1129	1619		"	"	12.1	TH	+8.1	-4.0		146.7		+1498	-614	341,753	513,434
1130	1289		"	"	10.2	TH	+6.4	-3.8		146.9		+1193	-489	341,448	513,559
1131	959		340° 30'	-2.8°	4.9	-		-4.9		145.8		+887	-364	341,142	513,684
1132	629		"	"	5.1	-		-5.1		145.6		+582	-239	340,837	513,809
1133	299		"	"	5.0	-		-5.0		145.7		+277	-113	340,532	513,935
TP	0		"	"	5.1	-		-5.1		145.6	TP	0	0	340,255	514,048
1134	40		208° 15'	-2.8°	5.4	-		-5.4		145.3		-36	-17	340,219	514,031
1135	367		191° 40'	"	6.0	-		-6.0		144.7		-363	-57	339,892	513,991
1136	697		"	"	6.9	-		-6.9		143.8		-689	-107	339,566	513,941
1137	1027		"	"	7.1	-		-7.1		143.6		-1015	-58	339,240	513,890

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	1-14-88	INSTRUMENT MAN	B. Cotcamp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	W	LINE NO	16	PAGE	88
AREA	GEORGIA	TOPO MAP	NEWELL - 7 1/2'	STATE	G.A.	COUNTY	CHARLTON	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.	
									150.7					
1138	1357		191° 40'	-2.8°	6.6	-		-6.6		144.1		-1341	-209	338,914 513,839
1139	1687		" "	" "	6.0	-		-6.0		144.7		-1667	-260	338,588 513,788
1140	2015		191° 07' 01"	" "	5.8	-		-5.8		144.9	TP	-1994	-291	338,260 513,756
1140	2015				5.7	270-		-5.7			TP	"	"	
	857		343° 54' 18"	-2.8°	+4.8	-		+4.8	149.7		BS	-811	+278	
	857				+9.0	TH	-4.3	+4.7			BS	"	"	
1141	528		343° 37'	" "	6.0	-		-6.0		143.7		+499	-174	337,947 513,859
1142	198		" "	" "	5.8	-		-5.8		143.9		+187	-65	337,635 513,968
Σ	0		" "	" "	5.1	-		-5.1		144.6	Σ	0	0	337,448 514,033
#	15		30° 00'	-2.8°	4.9	-		-4.9		144.8		+13	+7	337,461 514,040
1143	134		186° 50'	" "	5.0	-		-5.0		144.7		-134	-9	337,314 514,024
1144	464		" "	" "	6.8	TH	72.3	-4.5		145.2		-463	-33	336,985 514,000
1145	794		" "	" "	8.6	TH	74.0	-4.6		145.1		-792	-56	336,656 513,977
1146	1124		" "	-2.8°	5.7	-		-5.7		144.0		-1121	-79	336,327 513,954
#	1188		186° 22' 20"	" "	5.3	-		-5.3		144.4	#	-1186	-74	336,262 513,959
1147	1454		186° 50'	" "	5.8	-		-5.8		143.9		-1450	-102	335,998 513,931
1148	1784		" "	" "	6.0	-		-6.0		143.7		-1780	-125	335,668 513,908
1149	2114		186° 46' 53"	" "	6.3	-		-6.3		143.4	TP	-2109	-147	335,339 513,885
1149	2114				6.2	270-		-6.2			TP	"	"	

EL. 145.0

1188 - 336,270 x - 513,965
1147 - 335,998 x - 513,931

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	1.14.85	INSTRUMENT MAN	B. Catamp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	RWB	LINE NO.	16	PAGE	89
AREA	GEORGIA	TOPO MAP	NEWELL-7 1/2	STATE	G.A.	COUNTY	CHARLTON	TWP		PARTY MANAGER	W. Cassidy		

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
	3630		3° 55' 21"	-2.6	+6.7	-		+6.7	150.1		BS	-3629	-84			
	3630				+6.6	270-		+6.6			BS					
1150	3487		3° 56' 00"	-	6.1	-		-6.1		144.0	11	+3406	+79	335,116	513,879	115-335,125 X-513,880 11 T-Inter.
1151	3300		3° 50'	-	6.0	-		-6.0		144.1		+3299	+71	335,009	513,871	
1152	2970		-	-	6.2	-		-6.2		143.9		+2969	+64	334,679	513,864	
1153	2410		3° 50'	-2.6	5.9	-		-5.9		144.2		+2639	+57	334,349	513,857	
1154	2310		-	-	5.7	-		-5.7		144.4		+2309	+50	334,019	513,850	
1155	1980		-	-	6.1	-		-6.1		144.0		+1980	+43	333,690	513,843	
1156	1650		3° 50'	-	5.9	-		-5.9		144.2		+1650	+36	333,360	513,836	
1157	1320		-	-2.6	5.8	-		-5.8		144.3		+1320	+28	333,030	513,828	
1158	990		-	-	5.0	-		-5.0		145.1		+990	+21	332,700	513,821	
1159	660		-	-	5.2	-		-5.2		144.9		+660	+14	332,370	513,814	
1160	652		4° 19' 16"	-	5.0	✓		-5.0		145.1	11	+652	+20	332,362	513,820	115-332,365 X-513,805 11 T-Inter.
1161	330		3° 50'	-	5.0	-		-5.0		145.1		+330	+7	332,040	513,807	
1162	0				5.1	-		-5.1		145.0	11	0	0	331,710	513,800	
1163	330		183° 50'	-2.6	5.2	-		-5.2		144.9		-330	-7	331,380	513,793	
1164	660		-	-	5.1	-		-5.1		145.0		-660	-14	331,050	513,786	
1165	990		-	-	5.8	-		-5.8		144.3		-990	-21	330,720	513,779	
1166	1320		-	-	7.1	-		-7.1		143.0		-1320	-28	330,390	513,772	
1167	1318		183° 30' 50"	-	7.0	-		-7.0		143.1	11	-1318	-21	330,392	513,779	115-330,385 X-513,770 11 T-Inter.

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
1-14-85		B. Cotcamp		K. Greenfield		6834		KUG		16	90						
AREA		TOPO MAP	STATE	COUNTY	TWP	RANGE	PPM	PARTY MANAGER									
GEORGIA		NEWELL-7 1/2'	G.A.	CHARLTON				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		
									150-1								
1165	1650		183° 50'	-2.6°	7.5	-		-7.5		142.6		-1650	-36	330,660	513,764		
1166	1980		" "	" "	7.9	-		-7.9		142.2		-1980	-43	329,730	513,757		
1167	2310		" "	" "	7.3	-		-7.3		142.8		-2309	-50	329,701	513,750		
1168	2640		" "	" "	6.6	-		-6.6		143.5		-2639	-57	329,071	513,743		
1169	2970		" "	" "	6.9	-		-6.9		143.2		-2969	-64	328,741	513,736		
1170	3300		" "	" "	7.0	-		-7.0		143.1		-3299	-71	328,411	513,729		
1171	3629		183° 39' 00"	-2.6	6.8	-		-6.8		143.3	TP	-3628	-67	328,082	513,732		
1171	3629				6.9	270°		-6.9			TP		-1				
	859		355° 04' 19"	-2.6	+4.6	-		+4.6	147.9		BS	-852	+113				
	859				+8.9	TH	-4.3	+4.6			BS		-1				
1172	529		355° 00'	" "	5.2	-		-5.2		142.7		+524	-70	327,754	513,774		
±	576		355° 20' 30"	" "	5.1	-		-5.1		142.8	±	+571	-73	327,801	513,771	165 - 327,800 x - 513,765 71 4 way gate, EL. 110	
1173	199		355° 00'	" "	5.2	-		-5.2		142.7		+197	-26	327,427	513,818		
X	0				5.1	-		-5.1		142.8	X	0	0	327,230	513,844		
1174	131		190° 10'	-2.6	5.7	-		-5.7		142.2		-130	-17	327,100	513,827		
1175	461		" "	" "	5.4	-		-5.4		142.5		-457	-61	326,773	513,783		
1176	791		" "	" "	5.5	-		-5.5		142.4		-784	-104	326,446	513,740		
1177	1121		190° 01' 28"	-2.4	5.4	-		-5.4		142.5	TP	-1111	-149	326,119	513,694		
1177	1121				11.0	TH	+5.6	-5.4			TP		-1				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
1-14-85		B. Cotcamp		K. Greenfield		6834		KUG		16	91			
AREA		TOPO MAP	STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER					
GEORGIA		NEWELL-7 1/2'	G.A.	CHARLTON					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.	
	3299		11° 52' 01"	-2.4°	4.7	-		+4.7	147.2		BS	-3254	-543	
	3299				+4.6	270°		+4.6		BS				
1178	2970		11° 50'	-	4.4	-		-4.4		142.8		+2930	+487	325,795 513,638
1179	2640		-	-	4.6	-		-4.6		142.6		+2604	+493	325,469 513,584
1180	2310		-	-	4.3	-		-4.3		142.9		+2279	+379	325,144 513,530
1181	1980		11° 50'	-2.4°	13.6	TH	+9.9	-3.1		144.1		+1953	+325	324,818 513,476
1182	1650		-	-	11.8	TH	+8.3	-3.5		143.7		+1628	+270	324,493 513,421
1183	1320		-	-	5.2	-		-5.2		142.0		+1302	+216	324,167 513,367
1184	990		-	-	5.5	-		-5.5		141.7		-977	-162	323,842 513,313
1185	660		-	-	5.5	-		-5.5		141.7		+651	+108	323,516 513,259
Δ	492		14° 55' 46"	-2.4°	3.5	-		-3.5		143.7	Δ	+480	+107	323,345 513,258
1186	330		11° 50'	-	5.2	-		-5.2		142.0		+326	+54	323,191 513,205
1187	0		-	-	5.1	-		-5.1		142.1	TP	0	0	322,865 513,151
1188	330		187° 45'	-	6.0	-		-6.0		141.2		-329	-31	322,536 513,120
1189	660		-	-	5.6	-		-5.6		141.6		-657	-62	322,208 513,089
1190	990		-	-2.4°	5.3	-		-5.3		141.9		-986	-92	321,879 513,059
1191	1320		-	-	5.3	-		-5.3		141.9		-1314	-123	321,551 513,028
1192	1650		-	-	5.1	-		-5.1		142.1	TP	-1642	-159	321,223 512,992
1192	1650		187° 55' 20"	-	5.0	270°		-5.0			TP			

Δ 323,340 X-513,250
 Δ 7'± - S⁷⁴ E L. 142.0

NEWELL - 7 1/2' ↑
 DOUBLE LAKES 7 1/2' ↓

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
1-14-85		B. Cotcamp		K. Greenfield		6834		W		16		92			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA				G.A.		CHARLTON								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
	2234		18° 22' 40"	-2.4	+1.8	-		+1.8	143.9		BS	-2148	-615		
	2234				+1.7	270°		+1.7			BS				
1193	1904		18° 25'	--	11.7	TH	+9.5	-2.2		141.7		+1830	+525	320,905 512,902	
1194	1574		18° 18'	--	10.1	TH	+7.9	-2.2		141.7		+1514	+431	320,589 512,808	
1195	1244		18° 10'	--	9.1	TH	+6.2	-2.9		141.0		+1197	+338	320,272 512,715	
1196	914		18° 00'	-2.4	8.0	TH	+4.6	-3.4		140.5		+880	+746	319,955 512,623	
1197	584		17° 40'	--	6.9	TH	+2.9	-4.0		139.9		+563	+154	319,638 512,531	
1198	254		15° 45'	--	4.9	-		-4.9		139.0		+247	+59	319,322 512,436	
⊕	28		30° 17' 00"	--	5.0	-		-5.0		138.9		+25	+13	319,100 512,390	
⊕	0				5.1	-		-5.1		138.8	⊕	0	0	319,075 512,377	
1199	76		177° 05'	-2.4	5.1	-		-5.1		138.8		-76	+7	318,999 512,384	
1200	405		174° 50'	--	5.3	-		-5.3		138.6		-401	+53	318,674 512,430	
1201	735		174° 10'	--	4.9	-		-4.9		139.0		-727	+105	318,348 512,482	
1202	1065		174° 05'	--	5.3	-		-5.3		138.6		-1054	+154	318,021 512,531	
1203	1395		173° 58'	-2.4	5.0	-		-5.0		138.9		-1380	+205	317,695 512,582	
1204	1725		-	--	4.4	-		-4.4		139.5		-1706	+253	317,369 512,630	
1205	2055		-	--	4.3	-		-4.3		139.6		-2033	+301	317,042 512,678	
1206	2384		174° 05' 57"	--	4.2	-		-4.2		139.7	TP	-2359	+344	316,716 512,721	
1206	2384				4.1	270°		-4.1			TP				

9 - 319,100 x - 512,390
 0 - Inter. EL. 139.0
 note: 2" = -6'
 scale: 2" = 4'

DOUBLE LAKES - 7 1/2'
 CHASE Prairie - 7 1/2'

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
1-16-85		B. Cotamp		K. Greenfield		6834		BCW		16		93				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
GEORGIA		CHASE PRAIRIE-7 1/2'		G.A.		CHARLTON								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
										139.7				316,716	512,721	
	1980		359° 32' 20"	-2.4°	5.7	-		+5.7	145.5		BS	-1978	+99			
	1986				6.0	270-		+6.6		+5.8	BS					
1207	1650		359° 20'	-	5.8	-		-5.8		139.7		+1648	-88	316,386	512,732	
#	1462		359° 38' 48"	-	5.5	-		-5.5		140.0	#	+1460	-70	316,198	512,750	# 3-316,200 x-512,710 # 4WAY, INTER. EL. 140.0
1208	1320		359° 20'	-	5.6	-		-5.6		139.9		+1318	-71	316,056	512,749	
1209	990		-	-2.4°	5.8	-		-5.8		139.7		+989	-53	315,727	512,767	
1210	660		-	-	6.7	-		-6.7		138.8		+659	-35	315,397	512,785	
1211	330		-	-	6.2	-		-6.2		139.3		+330	-18	315,068	512,802	
1212	0		-	-	5.1	-		-5.1		140.4	X	0	0	314,738	512,820	ACROSS STA.
1213	332		197° 55'	-2.4°	6.1	TH	+1.7	-4.4		141.1		-320	-89	314,418	512,731	
1214	662		-	-	7.5	TH	+3.3	-4.2		141.3		-638	-177	314,100	512,643	
1215	992		-	-	8.7	TH	+5.0	-3.7		141.8		-956	-265	313,782	512,555	
1216	1322		-	-	10.6	TH	+6.6	-3.4		142.1		-1274	-354	313,464	512,466	
1217	1652		197° 55'	-	12.0	TH	+8.3	-3.7		141.8		-1592	-442	313,146	512,378	
1218	1982		-	-2.4°	4.9	-		-4.9		140.6		-1910	-530	312,828	512,280	
1219	2311		198° 00'	-	6.0	-		-6.0		139.5		-2226	-621	312,512	512,199	
TP	2529		197° 39' 23"	-	5.7	-		-5.7	145.3		TP	-2440	-665	312,298	512,155	
TP	2529			-	5.9	270-		-5.9 ^{-5.8}		TP						
	2751		4° 02' 34"	-	5.6	-		+5.6			BS	-2750	-79			
	2751			-	5.7	270-		+5.7			BS					

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
1-16-85		B. Cotcamp		K. Greenfield		6834		B.C.W.		16		94			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		CHASE PRAIRIE-7/8		G.A.		CHARLTON								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
									145.3						
1220	2640		4° 03'	-2.4°	6.0	-		-6.0		139.3		+2639	+76	312,187	512,152
1221	2328		4° 14' 42"	..	5.2	-		-5.2		140.1	TP	+2327	+75	311,875	512,151
1221	2310		4° 03'	..	5.8	-		-5.8		139.5		+2309	+67	311,857	512,143
1222	1980		-	..	6.2	-		-6.2		139.1		+1979	+57	311,527	512,133
1223	1650		-	..	5.4	-		-5.4		139.9		+1649	+48	311,197	512,124
1224	1320		-	..	6.6	-		-6.6		138.7		+1319	+38	310,867	512,114
1225	990		4° 03'	-2.4°	6.7	-		-6.7		138.6		+990	+29	310,538	512,105
1226	660		-	..	6.1	-		-6.1		139.2		+660	+19	310,208	512,095
1227	330		-	..	5.1	-		-5.1		140.2		+330	+10	309,878	512,086
1228	0				5.1	-		-5.1		140.2	TP	0	0	309,548	512,076
1229	330		185° 44'	-2.4°	5.3	-		-5.3		140.0		-329	-19	309,219	512,057
1230	660		-	..	5.6	-		-5.6		139.7		-659	-38	308,889	512,038
1231	990		-	..	5.1	-		-5.1		140.2		-988	-58	308,560	512,018
1232	1320		-	..	5.4	-		-5.4		139.9		-1318	-77	308,230	511,999
1233	1650		185° 44'	-2.4°	5.8	-		-5.8		139.5		-1647	-96	307,901	511,980
1234	1980		-	..	5.9	-		-5.9		139.4		-1977	-115	307,571	511,961
1235	2310		-	..	5.6	-		-5.6		139.7		-2306	-134	307,242	511,942
1236	2639		185° 32' 05"	..	5.3	-		-5.3			TP	-2635	-144	306,913	511,932
1236	2639				5.6	270°		-5.6		139.8	TP				

7-311,885 x - 512,135
4 way ante.

-5.5

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
1-16-85		B. Cotcamp		K. Greenfield		6834		B.C.W.		16		95			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		CHASE PRAIRIE-T _{1/2}		G.A.		CHARLTON								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
									139.8						
	3299		4° 00' 12"	-2.6	+5.3	-		+5.3	145.2		BS	-3298	-81		
	3299				+5.6	270-		+5.6		BS					
1237	2970		4° 00'	--	6.0	-		-6.0		139.2		+2969	+73	306,584	511,924
1238	2640		--	--	5.9	-		-5.9		139.3		+2639	+65	306,254	511,916
1239	2310		--	--	5.8	-		-5.8		139.4		+2309	+56	305,924	511,907
1240	1980		--	--	5.0	-		-5.0		140.2		+1979	+48	305,594	511,899
#	1937		4° 07' 17"	-2.6	4.5	-		-4.5		140.7	#	+1936	+51	305,551	511,902
1241	1650		4° 00'	--	12.6	TH	+8.3	-4.3		140.9		+1650	+40	305,265	511,891
1242	1320		--	--	4.7	-		-4.7		140.5		+1320	+32	304,935	511,883
1243	990		--	--	9.6	TH	+5.0	-4.6		140.6		+990	+24	304,605	511,875
1244	660		--	--	7.8	TH	+3.3	-4.5		140.7		+660	+16	304,275	511,867
1245	330		--	--	4.9	-		-4.9		140.3		+330	+8	303,945	511,859
1246	0				5.1	-		-5.1		140.1	T	0	0	303,615	511,851
1247	330		184° 55'	-2.6	4.9	-		-4.9		140.3		-330	-13	303,285	511,838
1248	660		--	--	5.5	-		-5.5		139.7		-659	-27	302,956	511,824
1249	990		--	--	5.1	-		-5.1		140.1		-989	-40	302,626	511,811
1250	1320		--	--	5.1	-		-5.1		140.1		-1319	-53	302,296	511,798
1251	1650		--	--	4.7	-		-4.7		140.5		-1649	-67	301,966	511,784
1252	1980		184° 55'	-2.6	4.2	-		-4.2		141.0		-1978	-80	301,637	511,771
1253	2310		--	--	4.1	-		-4.1		141.1		-2308	-93	301,307	511,758

JL 6-305,575 X-511,900
TF 4 way Inte.

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
1-16-85		B. Cotcamp		K. Greenfield		6834		B.C.K.		16		96			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		CHASE PRAIRIE - 7 1/2'		G.A.		CHARLTON								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
									145.2						
1254	2640		184° 50'	-2.6	7.8	89° 54'	+4.6	-3.2		142.0		-2638	-103	300,977	511,748
1255	2970		184° 53' 10"	--	2.8	-		-2.8			TP	-2968	-118	300,647	511,733
1255	2970				4.6	270° 02'	+1.7	-2.9		142.3	TP				
	891		4° 21' 54"	-2.6	7.1	-		+7.1	149.4		BS	-891	-27		
	891				7.2	270° -		+7.2			BS				
1256	561		4° 30'	--	6.3	-		-6.3		143.1		+561	+19	300,317	511,725
Δ	456		6° 39' 04"	--	5.4	-		-5.4		144.0	Δ	+455	+32	300,211	511,738
1257	231		4° 30'	--	5.8	-		-5.8		143.6		+231	+8	299,987	511,714
π	0				-5.1	-		-5.1		144.3	π	0	0	299,756	511,706
1258	99		171° 50'	-2.6	3.9	-		-3.9		145.5		-99	+18	299,659	511,724
1259	429		-	--	6.2	TH	+2.1	-4.1		145.3		-421	+80	299,335	511,786
1260	759		-	--	5.8	TH	+3.8	-2.0		147.4		-746	+142	299,010	511,848
1261	1089		-	--	8.6	TH	+5.4	-3.2		146.2		-1070	+203	298,686	511,909
1262	1418		171° 48' 00"	--	3.4	-		-3.4			TP	-1393	+266	298,363	511,972
1262	1418				3.5	270° -		-3.5		145.9	TP				
	1649		351° 43' 11"	-2.6	6.4	-		+6.4			BS	-1619	+311		
	1649				6.3	270° -		+6.3	152.2		BS				
1263	1326		351° 45'	--	7.2	-		-7.2		145.0		+1296	-248	298,040	512,035
1264	990		-	--	7.8	-		-7.8		144.4		+972	-186	297,716	512,077
1265	666		-	--	7.6	-		-7.6		144.6		+648	-124	297,392	512,159

9-300,210 x 511,700
U.S.G.S. EL. 144.0
TTGCH

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	1-16-85	INSTRUMENT MAN	B. Cotcamp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	B. C. K.	LINE NO.	16	PAGE	97	
AREA	GEORGIA	TOPO MAP	CHASE PRAIRIE-7 1/2' G.A.	STATE	G.A.	COUNTY	CHARLTON	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				
									152.2										
1266	330		351 45	-2.6°	6.2	-		-6.2		146.0		+324	-62	297,068	512,221				
1267	0				5.1	-		-5.1		147.1	X	0	0	296,744	512,283				
1268	330		176° 40'	--	4.9	-		-4.9		147.3		-328	+34	296,416	512,317				
IF	170		172° 38' 38"	--	4.9	-		-4.9		147.3	IF	-167	+29	296,577	512,312				
1269	660		177° 25'	--	5.2	-		-5.2		147.0		-657	+60	296,087	512,343				
1270	990		177° 50'	--	4.8	-		-4.8		147.4		-987	+82	295,757	512,365				
TP	1179		176° 31' 52"	--	4.3	-		-4.3			TP	-1173	+123	295,571	512,406				
TP	1179				4.4	270°		-4.4		147.8	TP								
	1651		345° 23' 14"	-2.6°	9.2	-		+9.2	157.0		BS	-1577	+489						
	1651				9.3	270°		+9.3			BS								
1271	1513		345° 25'	--	9.0	-		-9.0		148.0		+1445	-447	295,439	512,448				
1272	1183		-	--	8.2	-		-8.2		148.8		+1130	-349	295,124	512,546				
1273	853		-	--	7.2	-		-7.2		149.8		+815	-252	294,809	512,643				
1274	523		-	--	6.0	-		-6.0		151.0		+500	-155	294,494	512,740				
1275	193		-	--	5.1	-		-5.1		151.9		+184	-57	294,178	512,838				
X	0				5.1	-		-5.1		151.9	X	0	0	293,994	512,895				
1276	139		186° 20'	-2.6°	5.4	-		-5.4		151.6		-139	-9	293,855	512,886				
1277	469		-	--	6.0	-		-6.0		151.0		-468	-31	293,526	512,864				
1278	799		-	--	7.1	-		-7.1		149.9		-797	-52	293,197	512,843				
1279	1129		-	--	6.6	-		-6.6		150.4		-1127	-74	292,867	512,821				

y = 296,590 x - 512,310
IF + Inter. EL. 148.0

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	1-16-85	INSTRUMENT MAN	B. Cotcamp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	B.C.K.	LINE NO.	16	PAGE	98
AREA	GEORGIA	TOPO MAP	CHASE PRAIRIE-7 1/2'	STATE	G.A.	COUNTY	CHARLTON	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
									157.0							
1280	1386		186° 09' 00"	-2.6	6.8	-		-6.8		150.2	TP	-1383	-86	292,611	512,809	y=292,605 x=512,805 Hwy EL. 150.0
1281	1459		186° 20'	"	7.4	-		-7.4		149.6		-1456	-95	292,538	512,800	
1282	1789		"	"	7.6	-		-7.6		149.4		-1785	-116	292,209	512,779	
1282	2118		186° 21' 29"	--	7.0	-		-7.0		150.0	TP	-2113	-139	291,881	512,756	
1282	2118				7.0	270-		-7.0			TP					
	1980		6° 15' 15"	-2.6	+5.8	-		+5.8			BS	-1976	-126			
	1980				+5.7	270-		+5.7	155.7		BS					
1283	1656		6° 15'	--	5.2	-		-5.2		150.5		+1647	+105	291,552	512,735	
1284	1320		"	--	5.4	-		-5.4		150.3		+1319	+84	291,222	512,714	
1285	990		"	--	5.5	-		-5.5		150.2		+988	+63	290,893	512,693	
1286	660		"	--	5.6	-		-5.6		150.1		+659	+42	290,564	512,672	
1287	330		"	--	5.2	-		-5.2		150.5		+329	+21	290,234	512,651	
1288	0		"		5.1	-		-5.1		150.6	π	0	0	289,905	512,630	
Δ	21		266° 56' 40"	-2.6	5.3	-		-5.3		150.4	Δ	-2	-21	289,903	512,609	y=289,945 x=512,595 U.S.G.S. Δ EL. 150.0 T65HF 1955
1289	330		186° 25'	--	5.6	TH	+1.7	-3.9		151.8		-329	-22	289,576	512,608	
1290	660		"	--	6.8	TH	+3.3	-3.5		152.2		-659	-44	289,246	512,586	
1291	967		194° 17'	--	8.5	TH	+4.8	-3.7		152.0		-947	-196	288,958	512,434	
1292	1276		200° 21'	--	5.0	-		-5.0		150.7	TP	-1215	-389	288,690	512,241	
1293	1600		198° 03' 54"	--	13.0	TH	+8.0	-5.0		150.7	TP	-1542	-427	288,363	512,203	
1293	1600				12.9	TH 270-	+8.0	-4.9			TP					

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
1-16-85		B. Cotcamp		K. Greenfield		6834		B. Clark		16		99			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		CHASE PRAIRIE		G.A.		CHARLTON								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
									150.7						
	1973		357° 20' 56"	-2.6	13.7	TH	-9.9	+3.8	154.5		BS	-1965	+181		
	1973				13.8	TH _{270°}	-9.9	+3.9		BS					
1294	1645		356° 10'	--	11.9	TH	+8.2	-3.7		150.8		+1635	-184	288,033	512,200
1295	1319		354° 20'	--	10.1	TH	+6.6	-3.5		151.0		+1305	-190	287,703	512,194
1296	990		353° 35'	--	8.4	TH	+5.0	-3.4		151.1		+978	-155	287,376	512,229
1297	660		--	--	7.0	TH	+3.3	-3.7		150.8		+652	-103	287,050	512,281
1298	330		--	--	6.3	TH	+1.7	-4.6		149.9		+326	-52	286,724	512,332
1299	0				5.1	-		-5.1		149.4	TP	0	0	286,398	512,384
1300	331		186° 35'	-2.6	5.2	-		-5.2		149.3		-330	-23	286,068	512,361
1301	661		--	--	8.0	TH	+3.3	-4.7		149.8		-659	-46	285,739	512,338
1302	991		--	--	5.0	-		-5.0		149.5		-989	-69	285,409	512,315
1303	1321		--	--	10.9	TH	+6.6	-4.3		150.2		-1318	-92	285,080	512,292
#	1433		186° 23' 02"	--	3.9	-		-3.9		150.6	#	-1430	-95	284,968	512,289
1304	1651		186° 35'	-2.6	11.8	TH	+8.3	-3.5		151.0		-1649	-115	284,751	512,269
1305	1981		--	--	6.8	89° 54'	+3.5	-3.3		151.2		-1976	-138	284,422	512,246
1306	2311		186° 27' 13"	--	8.2	89° 54'	+4.0	-4.2			TP	-2306	-155	284,092	512,229
1306	2311				6.8	270° 04'	+2.7	-4.1		150.4	TP				
	1979		7° 20' 14"	-2.6	3.6	-		+3.6			BS	-1972	-163		
	1979				3.5	270°		+3.5		153.9	BS				
1307	1650		7° 25'	--	12.3	TH	+8.3	-4.0		149.9		+1644	+139	283,764	512,205

- 284,965 x - 512,280
4 way EL. 151.0

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	1-16-85	INSTRUMENT MAN	B. Cotcamp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	B. Ch...	LINE NO.	16	PAGE	100	
AREA	GEORGIA	TOPO MAP	CHASE PRAIRIE-1/2	STATE	G.A.	COUNTY	CHARLTON	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.	
									153.9					
1308	1320		7° 35'	-26°	10.6	TH	+6.6	-4.0		149.9		+1315	+115	283435 512,181
1309	990		- -	- -	9.0	TH	+5.0	-4.0		149.9		+986	+86	283,106 512,152
1310	660		- -	- -	7.5	TH	+3.3	-4.2		149.7		+658	+57	282,778 512,123
1311	330		- -	- -	5.0	-	-	-5.0		148.9		+329	+29	282,449 512,095
1312	0				5.1	-	-	-5.1		148.8	TP	0	0	282,120 512,066
1313	330		188° 05'	-26°	4.8	-	-	-4.8		149.1		-328	-32	281,792 512,034
1314	660		- -	- -	5.2	-	-	-5.2		148.7		-657	-63	281,463 512,003
1315	990		- -	- -	6.3	-	-	-6.3		147.6		-985	-95	281,135 511,971
1316	1320		- -	- -	7.7	-	-	-7.1		146.8		-1314	-126	280,806 511,940
1317	1650		- -	- -	7.1	-	-	-7.1		146.8		-1642	-158	280,478 511,908
Δ	1829		188° 50' 20"	-26°	10.0	89° 56'	+2.1	-7.9		146.0	Δ	-1818	-199	280,302 511,867
1318	1977		187° 34' 58"	-	8.3	-	-	-8.3			TP	-1970	-172	280,150 511,874
1318	1977				8.4	270° -	-	-8.4		145.5	TP			
	5280		356 44 59	-26°	+10.1	-	-	+10.1	155.9		BS	-5253	+538	
	5280				+10.7	270° -	-	+10.7	+10.42		BS			
1319	4950		356 45'	- -	10.1	-	-	-10.1		145.8		+4924	-505	279,822 511,928
1320	4620		- -	- -	9.6	-	-	-9.6		146.3		+4596	-471	279,494 511,962
1321	4290		- -	- -	8.8	-	-	-8.8		147.1		+4268	-437	279,166 511,975
1322	3960		- -	- -	8.9	-	-	-8.9		147.0		+3939	-404	278,837 512,029
1323	3630		- -	- -	8.8	-	-	-8.8		147.1		+3611	-370	278,509 512,062

S-280,307 X - 511,870
 B TCC3HF U.S.G.S. CE. 1/76

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 1-18-85	INSTRUMENT MAN B. Cotcamp	ROD MAN K. Greenfield	PARTY NUMBER 6834	NOTES CHECKED BY HWB	LINE NO. 16	PAGE 101
AREA GEORGIA	TOPO MAP CHASE PRAIRIE-7 1/2'	STATE GA.	COUNTY CHARLTON	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
									155.9						
1324	3300		356° 45'	-2.6	8.0	-		-8.0		147.9		+3283	-336	278,181	512,096
1325	2970		- -	- -	6.9	-		-6.9		149.0		+2955	-303	277,853	512,130
1326	2640		- -	- -	7.0	-		-7.0		148.9		+2626	-269	277,524	512,163
1327	2310		- -	- -	6.9	-		-6.9		149.0		+2298	-235	277,196	512,197
1328	1980		- -	- -	6.8	-		-6.8		149.1		+1970	-202	276,868	512,231
1329	1650		356° 45'	-2.6	6.1	-		-6.1		149.8		+1641	-168	276,539	512,264
1330	1320		- -	- -	6.1	-		-6.1		149.8		+1313	-135	276,211	512,298
1331	990		- -	- -	5.9	-		-5.9		150.0		+985	-101	275,883	512,332
1332	660		- -	- -	6.3	-		-6.3		149.6		+657	-67	275,555	512,365
1333	330		- -	- -	5.4	-		-5.4		150.5		+328	-34	275,226	512,399
1334	0				5.1	-		-5.1		150.8	T	0	0	274,898	512,432
A	201		168° 03' 07"	-2.6	4.4	-		-4.4		151.5	A	-195	+50	274,703	512,483
1335	330		176° 52'	- -	5.0	-		-5.0		150.9		-328	+33	274,570	512,465
1336	660		- -	- -	8.0	TH	+3.3	-4.7		151.2		-657	+66	274,241	512,498
1337	990		- -	- -	9.0	TH	+5.0	-4.0		151.9		-985	+99	273,913	512,531
1338	1320		- -	- -	10.6	TH	+6.6	-4.0		151.9		-1313	+132	273,585	512,564
1339	1650		176° 52'	-2.6	12.2	TH	+8.3	-3.9		152.0		-1642	+165	273,256	512,597
1340	1980		- -	- -	3.8	-		-3.8		152.1		-1970	+198	272,928	512,630
1341	2310		- -	- -	3.6	-		-3.6		152.3		-2298	+231	272,600	512,663
1342	2640		- -	- -	3.3	-		-3.3		152.6		-2627	+264	272,271	512,696

274,710 X - 512,485
A - S.G.S. EL. 151.0

CHASE PRAIRIE-7 1/2'

CHESSEY ISLAND-7 1/2'

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO		PAGE			
1-18-84		B. Cotnam		K. Greenfield		6834		KWB		16		102			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		CHESSER ISLAND-7 1/2		G.A.		CHARLTON								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
									155.9						
1343	2970		176° 52'	-2.6	4.0	-		-4.0		151.9		-2955	+297	271,943	512,729
1344	3300		" "	" "	4.2	-		-4.2		151.7		-3283	+330	271,614	512,762
1345	3630		" "	" "	5.1	-		-5.1		150.8		-3612	+363	271,286	512,795
1346	3960		176° 52'	-2.6	5.9	-		-5.9		150.0		-3940	+396	270,958	512,828
1347	4290		" "	" "	6.0	-		-6.0		149.9		-4269	+429	270,629	512,861
1348	4620		176° 54' 30"	" "	5.9	-		-5.9		150.0	TP	-4597	+458	270,301	512,891
1348	4620				6.4	270-		-6.4			TP				
	990		358° 36' 10"	-2.5	7.0	-		+7.0	157.0		BS	-988	+67		
	990				6.9	270-		+6.9			BS				
1349	660		358° 36'		6.8	-		-6.8		150.2		+658	-45	269,972	512,913
1350	330		" "		6.7	-		-6.7		150.3		+329	-22	269,642	512,936
1351	0				5.1	-		-5.1		151.9	T	0	0	269,313	512,958
1352	330		180° 00'		5.8	-		-5.8		151.2		-330	+14	268,983	512,972
1353	660		180° 35'		5.8	-		-5.8		151.2		-660	+22	268,653	512,980
1354	990		179° 59' 32"		7.1	-		-7.1		149.9	TP	-989	+43	268,324	513,001
1354	990		" "		2.2	BH	-5.0	-7.2			TP				
	5279		357° 53' 48"		5.1	-		+5.1	155.0		BS	-5262	+424		
	5279		" "		5.0	270-		+5.0			BS				
1355	4950		357° 54'		5.3	-		-5.3		149.7		+4934	-397	267,996	513,028
1356	4620		" "		5.1	-		-5.1		149.9		+4605	-371	267,667	513,054

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	1.18.85	INSTRUMENT MAN	B. Cotcamp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	JLW	LINE NO.	16	PAGE	103
AREA	GEORGIA	TOPO MAP	TOLEDO - 7 1/2'	STATE	G.A.	COUNTY	CHARLTON	TWP		PARTY MANAGER	W. Cassidy		

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
									155.0							
1357	4290		357° 54'	-2.5	5.0	-		-5.0		150.0		+4276	-344	267,338	513,081	CROSSER ISLAND - 7 1/2'
1358	3960		-	--	5.1	-		-5.1		149.9		+3947	-318	267,009	513,107	TOLEDO - 7 1/2' ↓
1359	3630		-	--	5.1	-		-5.1		149.9		+3618	-291	266,680	513,134	
1360	3300		357° 54'	-2.5	5.2	-		-5.2		149.8		+3289	-265	266,351	513,160	
1361	2970		-	--	6.0	-		-6.0		149.0		+2960	-238	266,022	513,187	
1362	2640		-	--	6.0	-		-6.0		149.0		+2632	-212	265,694	513,213	
1363	2310		-	--	5.0	-		-5.0		150.0		+2303	-185	265,365	513,240	
±	2271		357° 56' 40"	-2.5	4.4	-		-4.4		150.6	±	+2264	-180	265,326	513,245	± y=265,320 x=513,235 T-Inter.
1364	1980		357° 54'	--	7.6	89° 54'	+3.5	-4.1		150.9		+1974	-159	265,038	513,266	
1365	1650		-	--	7.5	89° 54'	+2.9	-4.6		150.4		+1645	-132	264,707	513,293	
1366	1320		-	--	6.7	89° 54'	+2.3	-4.4		150.6		+1316	-106	264,378	513,319	
1367	990		-	--	10.4	TH	+5.0	-5.4		149.6		+987	-79	264,049	513,346	
1368	660		-	--	5.1	-		-5.1		149.9		+658	-53	263,720	513,372	
1369	330		-	--	6.3	TH	+1.7	-4.6		150.4		+329	-26	263,391	513,398	
1370	0				5.1	-		-5.1		149.9	π	0	0	263,062	513,425	
±	23		177° 18' 14"	-2.5	4.9	-		-4.9		150.1	±	-23	+2	263,039	513,427	± y=263,020 x=513,420 T-Intersect EL. 150.0
1371	330		177° 56'	--	4.9	-		-4.9		150.1		-329	+26	262,733	513,451	
1372	660		-	--	6.3	-		-6.3		148.7		-658	+53	262,404	513,478	
1373	990		-	--	6.0	-		-6.0		149.0		-987	+79	262,075	513,504	
1374	1320		-	--	6.2	-		-6.2		148.8		-1316	+105	261,746	513,530	

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
1-18-85		B. Gtcamp		K. Greenfield		6834		1426		16		104			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		TOLEDO - 7 1/2'		GA.		CHARLTON								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
									155.0						
1375	1650		177° 56'	-2.5	6.2	-		-6.2		148.8		-1645	+131	261,417	513,556
1376	1980		~	--	6.2	-		-6.2		148.8		-1974	+158	261,088	513,583
1377	2310		-	--	5.7	-		-5.7		149.3		-2303	+184	260,759	513,609
1378	2640		-	--	5.1	-		-5.1		149.9		-2632	+210	260,430	513,635
1379	2970		177° 56'	-2.5	5.6	-		-5.6		149.4		-2961	+236	260,101	513,661
1380	3300		-	--	5.8	-		-5.8		149.2		-3290	+263	259,772	513,688
1381	3630		-	--	5.2	-		-5.2		149.8		-3618	+289	259,444	513,714
1382	3960		-	--	4.6	-		-4.6		150.4		-3947	+315	259,115	513,740
1383	4290		-	--	4.3	-		-4.3		150.7		-4276	+342	258,786	513,767
1384	4619		177° 54'	-2.5	4.8	-		-4.8		150.2		-4604	+370	258,458	513,795
TP	4768		177° 49' 55"	--	5.6	-		-5.6			TP	-4752	+388	258,310	513,813
TP	4768				5.7	270-		-5.7		149.3	TP				
											BS				
											BS				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
1.25.85		B. Gtamp		K. Greenfield		6834		B.C.K		16		105				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
GEORGIA		TOLEDO - 7 1/2'		G.A.		CHARLTON								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
										149.3				258,316	513,813	
	626		344° 50' 26"	-2.5	+5.8	-		+5.8	155.1		BS	-597	+190			
	626				+8.9	TM	-3.1	+5.8			BS					
1385	445		343° 30'	-	5.7	-		-5.7		149.4		+421	-145	258,134	513,858	
1386	115		341° 55'	-	5.6	-		-5.6		149.5		+108	-40	257,821	513,963	
	π	0			5.1	-		-5.1		150.0	π	0	0	257,713	514,003	
1387	215		147° -	-2.5	5.3	-		-5.3		149.8		-175	+125	257,538	514,128	
TP	464		151° 58' 51"	-	5.6	-		-5.6		149.5	TP	-400	+236	257,313	514,239	
TP	464				7.9	TM	+2.3	-5.6			TP					
	404		356° 31' 57"	-2.5	+5.4	-		+5.4	154.9		BS	-402	+42			
	404				+3.4	BM	+2.0	+5.4			BS					
1388	330		356° 10'	-	7.0	TM	+1.7	-5.3		149.6		+328	-36	257,239	514,245	
1389	0				5.1	-		-5.1		149.8	π	0	0	256,911	514,281	
1390	328		167° 20'	-2.5	5.7	-		-5.7		149.2		-317	+86	256,594	514,367	
FF	357		166° 16' 18"	-	5.0	-		-5.0		149.9	FF	-343	+100	256,568	514,381	256,575 x 514,370 FF 4.000 Int. 51,152.0
1391	657		167° 30'	-	6.1	-		-6.1		148.8		-635	+170	256,276	514,451	
TP	900		169° 53' 53"	-	6.5	-		-6.5		148.4	TP	-878	+196	256,033	514,477	
TP	900				11.0	TM	+4.5	-6.5			TP					
	257		353° 41' 35"	-2.5	+11.5	88° 30'	-6.7	+4.8	153.2		BS	-254	+39			
	257				+10.7	88° 40'	-6.0	+4.7			BS					
1392	174		350° 00'	-	5.1	-		-5.1		148.1		+170	-38	255,949	514,478	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
1-25-85		B. Cotcamp		K. Greenfield		6834		B. C. W.		16		106			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		TOLEDO - 7 1/2'		G.A.		CHARLTON								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 -	EAST + WEST -		Y
									153.2						
π	0				5.1	-		-5.1		148.1	π	0	0	255,779	514,516
1393	155		158° 00'	2.5	5.5	TH	+0.8	-4.7		148.5		-141	+64	255,638	514,580
1394	485		-	"	6.7	TH	+2.4	-4.3		148.9		-441	+201	255,338	514,717
1395	815		157° 48'	"	8.0	TH	+4.1	-3.9		149.3		-740	+341	255,039	514,857
TP	939		158° 05 09	2.5	8.9	TH	+4.7	-4.2		149.0	TP	-855	+388	254,924	514,904
TP	939			"	6.9	89 50	+2.7	-4.2			TP				
	733		351 52 55	"	5.5	-		+5.5			BS	-720	+135		
	733			"	9.1	TH	-3.7	+5.4	154.4		BS				
1396	527		352° 18'	"	5.4	-		-5.4		149.0		+519	-93	254,723	514,946
1397	197		-	2.5	5.8	TH	+1.0	-4.8		149.6		+194	-35	254,398	515,004
π	0				5.1	-		-5.1		149.3	π	0	0	254,204	515,039
1398	133		180° 10'	"	5.1	-		-5.1		149.3		-133	+5	254,071	515,044
1399	463		-	"	6.8	TH	+2.3	-4.5		149.9		-463	+19	253,741	515,058
TP	724		178 52 46	2.5	7.8	TH	+3.6	-4.2		150.2	TP	-723	+46	253,481	515,085
TP	724			"	6.3	89 50	+2.1	-4.2			TP				
	2049		352° 59 01	"	6.1	-		+6.1	156.3		BS	-2021	+237		
	2049			"	6.2	270 -		+6.2			BS				
1400	1980		353° 00'	2.5	6.2	-		-6.2		150.1		+1953	-327	253,413	515,097
1401	1650		-	"	6.2	-		-6.2		150.1		+1627	-272	253,087	515,152
1402	1326		-	"	6.1	-		-6.1		150.2		+1302	-218	252,762	515,206

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE	1-25-85	INSTRUMENT MAN	B. Cotamp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	KWG	LINE NO.	16	PAGE	107	
AREA	GEORGIA	TOPO MAP	TOLEDO - 7 1/2'	STATE	G.A.	COUNTY	CHARLTON	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.	
									156.3					
1403	990		353° 00'	2.5	5.9	-		-5.9		150.4		+976	-163	252,436 515,261
1404	660		-	"	5.7	-		-5.7		150.6		+651	-109	252,111 515,315
1405	330		-	"	5.2	-		-5.2		151.1		+325	-54	251,785 515,370
1406	0			"	5.1	-		-5.1		151.2	π	0	0	251,460 515,424
1407	330		172° 38'	2.5	5.2	-		-5.2		151.1		-325	+57	251,135 515,481
1408	660		-	"	5.8	-		-5.8		150.5		-650	+113	250,810 515,537
TP	924		172° 28' 26"	"	6.0	-		-6.0		150.3	π	-910	+161	250,550 515,585
1409	990		172° 38'	"	5.9	-		-5.9		150.4		-975	+170	250,485 515,594
1410	1320		-	"	6.1	-		-6.1		150.2		-1300	+226	250,160 515,650
1411	1650		-	"	6.2	-		-6.2		150.1		-1626	+283	249,834 515,707
1412	1980		-	"	6.1	-		-6.1		150.2		-1951	+339	249,509 515,763
1413	2309		-	"	6.4	-		-6.4		149.9		-2275	+396	249,185 515,820
TP	2344		172° 36' 03"	2.5	6.3	-		-6.3			TP	-2309	+403	249,151 515,827
TP	2344		-	"	6.4	270°		-6.4		149.9	TP			
	693		5° 49' 58"	"	+9.3	TH	-3.5	+5.8	155.7		BS	-692	-40	
	693		-	"	+9.4	TH 270°	-3.5	+5.9			BS			
1414	398		4° 55'	"	7.7	TH	+2.0	-5.7		150.0		+398	+17	248,857 515,804
1415	70		359° 45'	2.5	5.3	-		-5.3		150.4		+70	-3	248,529 515,784
π	0		-	"	5.1	-		-5.1		150.6	π	0	0	248,459 515,787
1416	264		150° 50'	"	5.0	-		-5.0		150.7		-225	+139	248,234 515,926

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
1-25-85		B. Cotamp		K. Greenfield		6834		B.C. W		16		108			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		TOLEDO-7 1/2'		G.A.		CHARLTON								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
									155.7						
1417	594		149° 45'	2.5	7.5	TH	+3.0	-4.5		151.2		-500	+321	247,959	516,108
1418	918		152° 37' 19"	2.3	9.8	89° 40'	+5.3	-4.5		151.2	TP	-798	+455	247,661	516,242
1418	918			" "	12.4	89° 30'	+8.0	-4.4			TP				
	1650		353° 33' 59"	" "	+3.9	-		+3.9	155.1		BS	-631	+251		
	1650			2.3	+3.9	270°		+3.9			BS				
1419	1320		353° 22'	" "	10.7	TH	+6.6	-4.1		151.0		+1304	-205	247,334	516,288
1420	990		-	" "	9.1	TH	+5.0	-4.1		151.0		+978	-154	247,008	516,339
1421	660		-	" "	8.2	TH	+3.3	-4.9		150.2		+652	-102	246,682	516,391
1422	330		-	2.3	4.9	-		-4.9		150.2		+326	-51	246,356	516,442
1423	0			" "	5.1	-		-5.1		150.0	T	0	0	246,030	516,493
1424	327		182° 38' 58"	" "	9.3	89° 20'	+3.8	-5.5		149.6	TP	-327	-2	245,703	516,491
1424	327			" "	10.3	89° 10'	+4.8	-5.5			TP				
	327		345° 41' 34"	2.3	+6.5	TH	-1.6	+4.9			BS	-313	+93		
	327				+6.7	89° 40'	-1.9	+4.8	154.4		BS				
1425	0				5.1	-		-5.1		149.3	T	0	0	245,390	516,584
±	293		170° 51' 03"		10.0	89° -	+5.1	-4.9		149.5	±	-287	+58	245,103	516,642
±	293				9.1	89° 10'	+4.3	-4.8							

HL - 245,105 x - 516,625
TC 4 way enter. EL. 149