

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
4-19-85		B. C. Camp		K. Greenfield		6834		CIC MUG		23	1					
AREA		TOPO MAP		STATE		COUNTY		TWP		PARTY MANAGER						
GEORGIA		FROLONA - 7 1/2'		G.A.		HOARD				W. Cass. Jr.						
STATION NO.	SLOPE 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
									1001.1						3-1217,446 x 193,918	
	1373		150° 32' 42"	-3	9.3	91° 30'	+35.9	+45.2	1046.3		BS	+1192	-681			
	1373			--	13.3	91° 20'	+31.9	+45.2		BS	-3	-1				
1	988		150° 10'	-3	10.8	91° 30'	-25.9	-36.7		1,009.6		-854	+496	1,217,781	193,732	
2	659		150° 30'	--	6.8	91° 30'	-17.2	-24.0		1,022.3		-572	+328	1,218,063	193,564	
3	330		151° 30'	--	9.0	90° 30'	-2.9	-11.9		1,034.4		-289	+159	1,218,346	193,395	
4	0			-3	5.1	-		-5.1		1,041.2	TP	0	0	1,218,635	193,236	
5	330		337° 50'	--	6.2	-		-6.2		1,040.1		+305	-126	1,218,940	193,110	
6	659		338° 30'	--	9.3	BH	-3.3	-12.6		1,033.7		+612	-245	1,219,247	192,991	
7	989		339° -	--	7.2	BH	-4.9	-12.1		1,034.2		+921	-359	1,219,556	192,877	
8	1320		338° 14' 52"	-3	14.0	BH	-6.6	-20.6			TP	+1223	-496	1,219,855	192,739	ACROSS STA.
8	1320			--	13.9	BH 270	-6.6	-20.5		1025.8	TP	-3	-1			
	1248		167° 29' 17"	--	2.2	86° 42'	-71.7	-69.5			BS	+1215	-276			
	1248			--	2.1	273° 18'	-71.7	-69.6	956.2		BS	-2	-1			
9	917		168° 20'	-3	7.0	86° 30'	+55.9	+48.9		1,005.1		-897	+190	1,220,171	192,652	
10	587			--	9.8	86° 30'	+35.8	+26.0		982.2		-574	+122	1,220,494	192,584	
11	258		165° 05'	--	6.9	86° 30'	+15.7	+8.8		965.0		-249	+68	1,220,819	192,530	
TP	0			--	5.1	-		-5.1		951.1	TP	0	0	1,221,068	192,462	
12	98		36° 25'	--	7.8	90° 30'	-0.9	-8.7		947.5		+79	+58	1,221,147	192,520	
13	419		18° 05'	-3	10.6	91° 10'	-8.5	-19.1		937.1		+399	+128	1,221,467	192,590	
4	747		19° 10'	--	7.8	90° 30'	-6.5	-14.3		941.9		+707	+242	1,221,775	192,704	

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X

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4-19-85		B. Cotcamp		K. Greenfield		6834		WC KWG		23	2						
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
GEORGIA		FROLOVA - 7 1/2'		GA.	MORDE					W. Cassidy							
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS	
												LAT.	DEP.	Y	X		
									956.2								
15	1076		19° 40'	--	8.0	89° 40'	+6.3	-1.7		954.5		+1015	+357	1,222,083	192,819		
16	1406		19° 50'	--	7.0	89° 40'	+8.2	+1.2		957.4		+1325	+470	1,222,393	192,932		
TP	1451		19° 38' 28"	-3	5.3	89° 44'	+6.7	+1.4			TP	+1369	+481	1,222,435	192,942		
TP	1451			--	5.2	210° 16'	+6.7	+1.5		957.7	TP	-	-				
	948		210° 12' 33"	-3	+8.6	88° -	-33.1	-24.5			BS	+821	+472				
	948			--	+5.9	88° 10'	-30.3	-24.4	933.3		BS	-2	-				
17	887		209° 52' 52"	--	5.2	88° 10'	+28.4	+23.2		956.5	IF	+771	+438	1,222,483	192,975	F 1070 Y 1222483 EL 954.0 X 192980 TR Horizontal	
17	660		209° 15'	--	6.9	88° -	+23.0	+16.1		949.4		-578	-319	1,222,676	193,094		
18	330		208° 55'	--	6.1	88° -	+11.5	+5.4		938.7		-290	-158	1,222,964	193,255		
19	0			--	5.1	-		-5.1		928.2	T	0	0	1,223,254	193,413		
20	330		25° -	--	7.8	91° 30'	-8.6	-16.4		916.9		+300	+138	1,223,554	193,551		
21	660			--	9.4	91° -	-11.5	-20.9		912.4		+600	+276	1,223,854	193,689		
22	990		25° 25'	-3	11.9	90° 10'	-2.9	-14.8		918.5		+896	+420	1,224,150	193,833		
TP	1109		25° 59' 02"	-3	6.2	90° 10'	-3.2	-9.4			TP	+999	+481	1,224,251	193,893		
TP	1109			--	3.0	90° 20'	-6.5	-9.5		923.8	TP	-2	-				
	947		210° 15' 40"	--	+14.2	92° 10'	+35.8	+50.0			BS	+820	+473				
	947			--	+14.1	267° 50'	+35.8	+49.9	973.7		BS	-2	-				
23	738		208° 55'	-3	7.6	92° 30'	-32.2	-39.8		933.9		-648	-353	1,224,421	194,012		
24	411		204° 45'	--	7.5	92° -	-14.3	-21.8		951.9		-374	-170	1,224,695	194,195		
25	83		209° -	--	5.7	-		-5.7		968.0		-73	-40	1,224,996	194,325		

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

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4-19-85		B. Botcamp		K. Greenfield		6834		WC KWL		23		3			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		FLOONA-7 1/2'		G.A.		HEARD								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									978.7						
K	0			-	5.1	-		-5.1		968.6	K	0	0	1,225.069	194,365
26	252		4° 50'	-	6.1	86°	+17.5	+11.4?		985.1		+251	+20	1,225.320	194,385
27	580		1° 30'	-	5.4	86° 50'	+32.0	+26.6		1,000.3		+580	+12	1,225.649	194,377
28	908		359° 10'	-	7.8	87° 04'	+46.4	+38.6		1,012.3		+908	-18	1,225.977	194,347
TP	1111		358° 21' 53"	0.3	13.2	87° 10'	+54.9	+41.7			TP	+1109	-37	1,226.176	194,327
TP	1111			-	15.2	87° 04'	+56.8	+41.6		1015.3	TP	-2	-1		
	1111		162° 12' 55"	0.3	12.6	BH	+5.6	+18.2			BS	+1056	-345		
	1111			-	12.5	BH ₂₇₀	+5.6	+18.1	1032.4		BS	-2	-1		
29	987		161° 05'	-	12.4	BH	-4.9	-17.3		1,016.1		-932	+325	1,226.298	194,306
30	659		159° 25'	-	11.2	BH	-3.3	-14.5		1,018.9		-616	+235	1,226.614	194,216
31	330		161° 50'	-	12.5	-		-12.5		1,020.9		-313	+105	1,226.917	194,086
32	0			-	5.1	-		-5.1		1,028.3	K	0	0	1,227.230	193,981
33	330		349° 10'	0.3	6.7	87° 30'	+14.4	+7.7		1,041.1		+324	-64	1,227.554	193,917
34	659		350° 30'	-	6.3	87° 30'	+28.7	+22.4		1,055.8		+649	-112	1,227.879	193,869
35	987		349° 05'	-	9.2	87° 30'	+43.0	+33.8		1,067.2		+968	-192	1,228.198	193,789
TP	1139		347° 37' 26"	0.3	6.1	87° 50'	+43.0	+36.9			TP	+1110	-250	1,228.338	193,731
TP	1139			-	9.4	87° 40'	+46.3	+36.9		1070.3	TP	-2			
	1166		149° 28' 50"	0.3	9.0	TH	-5.8	+3.2			BS	+1001	-597		
	1166			-	8.9	TH ₂₇₀	-5.8	+3.1	1073.4		BS	-2			
71	1087		149° 42' 54"	-	7.7	TH	+5.4	-2.3		1071.1	71	-936	+553	1,228.401	193,687

71 Intel. 1,228.400 EL
X193705 10730

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4-19-85		B. Cotcamp		K. Greenfield		6834		XUG WC		23	4					
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER						
GEORGIA		Roooville - 7 1/2'		G.A.	HEARD					W. CASS. dy						
STATION NO.	SLOPE DISTANCE	PLOTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS
												LAT.	DEP.	Y	X	
									1073.4							
36	990		148° 50'	-0.3	9.4	89° 30'	+8.6	-0.8		1,072.6		-844	+517	1,228,493	193,651	
37	660		149° 10'	--	5.5	89° 30'	+5.8	+0.3		1,073.7		-565	+341	1,228,772	193,475	
38	330		151 -	--	6.7	89° -	+5.8	-0.9		1,072.5		-288	+162	1,229,049	193,296	FROONA - 7 1/2' ↑
39	0			--	5.1	-	-	-5.1		1,068.3	TP	0	0	1,229,337	193,134	Roooville - 7 1/2' ↓
Bm	252		323° 12' 51"	--	9.4	-	-	-9.4		1,064.0	B.M.	+201	-152	1,229,538	192,982	X 1229530 X 193000 B.M. EL 1064.0
40	330		337 -	--	10.2	-	-	-10.2		1,063.2		+303	-131	1,229,641	193,003	
41	660		338° 30'	-0.3	11.8	B.M.	-3.3	-15.1		1,058.3		+613	-245	1,229,950	192,989	
42	990		339° 10'	--	11.2	90° 30'	-8.6	-19.8		1,053.6		+923	-357	1,230,260	192,777	
43	1320		339° 30'	--	8.4	90° 30'	-11.5	-19.9		1,053.5		+1234	-469	1,230,571	192,665	
TP	1546		340° 34' 54"	-0.3	8.2	90° 20'	-9.0	-17.2			TP	+1455	-522	1,230,790	192,612	
TP	1546			--	8.1	269° 40'	-9.0	-17.1		1,056.3	TP	-2				
	436		192° 23' 23"	--	+5.7	-	-	+5.7	1062.0		BS	+426	+91			
	436			--	+7.9	TH	-2.2	+5.7			BS	-2				
44	330		191° 55'	-0.3	6.9	-	-	-6.9		1,055.1		-323	-66	1,230,891	192,637	
45	0			--	5.1	-	-	-5.1		1,056.9	TP	0	0	1,231,214	192,703	
46	330		26° 20'	--	5.0	TH	+1.7	-3.3		1,058.7		+297	+145	1,231,511	192,848	
47	659		27° 55'	-0.3	4.3	TH	+3.3	-1.0		1,061.0		+584	+305	1,231,798	193,008	
48	988		26° 15' 40"	--	8.4	-	-	-8.4			TP	+888	+433	1,232,100	193,136	
48	988			--	8.3	270° -	-	-8.3		1,053.7	TP	-2				

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GEO-445

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4-19-85		B. Cotcamp		K. Greenfield		6834		W.C. MWG		23		5			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		Rooseville-7E		G.A.		Hearl								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH+ SOUTH- LAT.	EAST+ WEST- DEP.		Y
										1053.7					
	1859	1857.23	179° 53' 14"	-0.3	1.7	87° 30'	-81.0	-79.3	974.4		BS	+1857	-13		
	1859			-0.3	1.6	272° 30'	-81.0	-79.4			BS	-2			
49	1531		178° 50'	--	8.7	87° 20'	+71.1	+62.4		1036.8		-1531	+39	1,232,424	193,162
50	1201		178° 40'	--	9.3	87° 20'	+55.8	+46.5		1,020.9		-1201	+34	1,232,754	193,157
51	871		178° 15'	--	9.8	87° 20'	+40.5	+30.7		1,005.1		-870	+31	1,233,085	193,154
52	541		177° 15'	--	10.0	87° 20'	+25.1	+15.1		989.5		-540	+29	1,233,415	193,152
53	212		178° 25'	--	9.3	87° 20'	+9.9	+0.6		975.0		-212	+7	1,233,743	193,130
TP	0			--	5.1	-		-5.1		969.3	TP	0	0	1,233,955	193,123
54	138		319° 40'	-0.3	8.0	93° -	-7.2	-15.2		959.2		+105	-90	1,234,060	193,033
55	466		326° 20'	-0.3	6.5	93° -	-24.4	-30.9		943.5		+386	-260	1,234,341	192,863
56	793		322° 35'	--	6.9	92° 50'	-39.2	-46.1		928.3		+627	-485	1,234,582	192,638
TP	900	898.90	321° 04' 55"	-0.3	7.5	92° 50'	-44.4	-51.9			TP	+696	-568	1,234,649	192,555
TP	900			-0.3	7.4	267° 10'	-44.4	-51.8		922.6	TP	-2			
	1209		123° 53' 20"	--	1.3	-		+1.3	923.9		BS	+669	-1007		
	1209			--	7.3	TH	-6.0	+1.3			BS	-2			
57	988		123° 40'	--	9.9	90° 10'	-2.9	-12.8		911.1		-543	+825	1,234,773	192,373
JL	756		123° 48' 40"	-0.3	7.3	90° 50'	-11.0	-18.3		905.6	JL	-417	+630	1,234,899	192,178
58	659		122° 45'	--	7.9	91° -	-11.5	-19.4		904.5		-354	+556	1,234,962	192,104
59	330		120° 50'	--	9.1	91° -	-5.8	-14.9		909.0		-168	+284	1,235,148	191,832
60	0			--	5.1	-		-5.1		918.8	TP	0	0	1,235,316	191,548

JL 7-1234730
X 192,200

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4-19-85		B. Cotcamp		K. Greenfield		6834		WC		KUB		23		6	
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		Rooptville - 7 1/2'		G.A.		Heard								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									923.9						
61	330		295° -	-0.3	8.0	89° -	+5.8	-2.2		921.7		+138	-300	1,235,454	191,248
62	660		- -	--	12.3	89° -	+11.5	-0.8		923.1		+276	-600	1,235,592	190,948
63	990		- -	--	11.3	89° -	+17.3	+6.0		929.9		+414	-899	1,235,730	190,649
64	1320		- -	--	6.7	88° 40'	+30.7	+24.0		947.9		+552	-1199	1,235,868	190,349
65	1645		296° 48'	-0.3	5.8	88° 20'	+47.9	+42.0		965.9		+734	-1472	1,236,050	190,076
TP	1823	1821.96	297° 31' 52"	-0.5	8.0	88° 04'	+61.5	+53.5			TP	+828	-1623	1,236,142	189,925
TP	1823		- -	--	7.9	271° 56'	+61.5	+53.6		977.5	TP	-2			
	731		150° 14' 16"	--	10.0	91° -	+12.8	+22.8	1000.3		BS	+631	-368		
	731		- -	-0.5	7.9	91° 10'	+14.9	+22.8			BS	-2			
66	571		150° -	-	6.7	91° -	-10.0	-16.7		983.6		-492	+290	1,236,279	189,847
1/4	551		151° 06' 59"	-	5.1	91° -	-9.6	-14.7		985.6	1/4	-480	+270	1,236,291	189,827
67	242		149° 20'	--	7.3	90° 20'	-1.4	-8.7		991.6		-207	+125	1,236,564	189,682
1/4	0		- -	-0.5	5.1	- -		-5.1		995.2	1/4	0	0	1,236,771	189,557
68	189		12° 50'	--	7.1	93° 30'	-7.3	-14.4		985.9		+106	+23	1,236,877	189,580
69	432		355° 55'	--	7.4	92° 50'	-21.3	-28.7		971.6		+431	-35	1,237,202	189,522
70	762		357° -	--	9.6	91° 50'	-24.4	-34.0		966.3		+761	-47	1,237,532	189,510
71	1091		358° 05'	--	10.9	90° 50'	-15.9	-26.8		973.5		+1090	-46	1,237,861	189,511
72	1420		358° 40'	--	11.1	90° 10'	-4.1	-15.2		985.1		+1419	-45	1,238,190	189,512
73	1749		358° 55'	--	8.1	89° 50'	+5.1	-3.0		997.3		+1748	-48	1,238,519	189,509
74	2079		359° 12'	-0.5	10.2	89° 30'	+18.1	+7.9		1,008.2		+2078	-47	1,238,849	189,510

Y-1236225 EL.984.0
 Htrel. X 189,500

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GEO-445

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4-19-85		B. Cotcamp		K. Greenfield		6834		WC		23		7			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		Koozville - 7 1/2'		G.A.		HEARD								W. CASS, dy	
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									1000.3						
75	2409		359 15	-0.5	9.2	89 20	+28.0	+18.8		1,019.1		+2408	-53	1,239,179	189,504
76	2660		359 09 51	--	4.8	89 20	+30.9	+26.1		1,026.4		+2659	-62	1,239,430	189,495
76	2739		359 20	--	3.3	89 20	+31.9	+28.6		1,028.9		+2738	-56	1,239,509	189,501
77	3068		359 10	--	5.8	89 10	+44.6	+38.8		1,039.1		+3067	-71	1,239,838	189,486
TP	3297		357 40 18	-0.5	5.8	89 10	+47.9	+42.1			TP	+3293	-163	1,240,064	189,394
TP	3297			--	5.5	270 50	+47.9	+42.4		1042.7	TP				
	740		128 35 50	-- +	7.8	-		+7.8	1050.5		BS	+457	-582		
	740			-- +	11.5	TH	-3.7	+7.8			BS				
78	657		126 25	-0.5	7.4	-		-7.4		1,043.1		-385	+532	1,240,136	189,344
79	330		123 30	--	7.3	-		-7.3		1,043.2		-180	+277	1,240,341	189,089
80	0			-	5.1	-		-5.1		1,045.4	TP	0	0	1,240,521	188,812
81	330		303 15	--	7.9	88 -	+11.5	+3.6		1,054.4		+179	-278	1,240,700	188,534
82	660			--	8.2	88 -	+23.0	+14.8		1,065.3		+357	-555	1,240,878	188,257
83	990			-0.5	12.4	88 -	+34.5	+22.1		1,072.6		+536	-833	1,241,057	187,979
TP	1253		303 55 29	--	7.1	88 30	+32.8	+25.7			TP	+690	-1045	1,241,211	187,767
TP	1253			--	7.0	271 30	+32.8	+25.8		1076.3	TP				
	459		153 55 15	-0.5 +	9.6	-		+9.6			BS	+410	-205		
	459			-- +	7.4	BM	+2.3	+9.7	1086.0		BS				
84	384		153 10	--	5.0	90 40	-4.5	-9.5		1,076.5		-341	+176	1,241,280	187,738
85	55		160 -	-0.5	6.0	-		-6.0		1,080.0		-52	+19	1,241,569	187,581

Y - 1,239,430
 Horiz Y - -40
 CORR X - -9

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4-19-85		B. Cotamp		K. Greenfield		6834		WC		23		8			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER:	
GEORGIA		Roopville-7 1/2'		G.A.		Heard								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									1,086.0						
K	0			-0.5	5.1	-		-5.1		1,080.9	T	0	0	1,241,621	187,562
86	275		346° 50'	--	3.6	TH	+1.4	-2.2		1,083.8		+267	-65	1,241,888	187,497
87	665		- - -	--	8.0	89° -	+10.6	+2.6		1,088.6		+588	-143	1,242,209	187,419
88	932		343° 45'	--	8.2	89° -	+16.3	+8.1		1,094.1		+892	-269	1,242,513	187,293
TP	991		342° 39' 54"	--	8.2	89° -	+17.3	+9.1		1095.1	TP	+943	-303	1,242,564	187,259
TP	991			-0.5	5.3	89° 10'	+14.4	+9.1			TP				
	1078		149° 49' 42"	--	+13.7	89° 40'	-6.3	+7.4		1102.5	BS	+927	-550		
	1078			--	+14.3	270° 22'	-6.9	+7.4			BS				
89	810		150° 55'	--	7.8	89° 50'	+2.4	-5.4		1,097.1		-704	+400	1,242,787	187,109
90	480		152° 25'	--	6.0	89° 50'	+1.4	-4.6		1,097.9		-423	+226	1,243,068	186,935
91	151		149° 45'	-0.5	6.0	89° 50'	+0.4	-5.6		1,096.9		-130	+77	1,243,361	186,786
K	0			--	5.1	-		-5.1		1,097.4	K	0	0	1,243,491	186,709
92	185		350° 10'	--	6.6	-		-6.6		1,095.4		+182	-33	1,243,673	186,676
93	514		348° 25'	--	7.2	-		-7.2		1,095.3		+503	-108	1,243,994	186,601
94	843		349° 50'	-0.5	9.0	-		-9.0		1,093.5		+828	-156	1,244,319	186,553
95	1173		350° 15'	-0.5	10.8	-		-10.8		1,091.7		+1154	-209	1,244,645	186,500
96	1501		348° 40'	-	11.8	-		-11.8		1,090.7		+1469	-308	1,244,960	186,401
TP	1591		349° 30' 24"	-	12.7	-		-12.7		1089.8	TP	+1562	-303	1,245,053	186,406
TP	1591			-0.5	4.8	BM	-8.0	-12.8			TP				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
4-19-85		B. Cotcamp		K. Greenfield		6834		WC KOG		23	9			
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER			
GEORGIA		Raspville - 1/2'		G.A.		Heard					W. Cassidy			
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
										1,089.8				
	965		128° 53' 40"	-05	4.7	91° -	+16.8	+21.5	1111.3		BS	+599	-756	
	965			-	10.2	90° 40'	+11.2	+21.4			BS			
97	722		126° 10'	-	10.5	90° 40'	-8.4	-18.9		1,092.4		-421	+587	1,245,231 186,237
98	394		127° 10'	-	9.1	-	-	-9.1		1,102.2		-235	+316	1,245,417 185,966
99	66		111° 35'	-	5.3	-	-	-5.3		1,106.0		-24	+62	1,245,628 185,712
π	0			-0.5	5.1	-	-	-5.1		1,106.2	π	0	0	1,245,652 185,650
100	281		341° 50'	-	9.2	-	-	-9.2		1,102.1		+266	-90	1,245,918 185,560
π	423		340° 54' 22"	-	8.0	-	-	-8.0		1103.3	π	+399	-142	1,246,051 185,508 X Int. X 1,246,035 X 185,500 EL. 11020
101	611		342° 50'	-	7.4	TH	+3.1	-4.3		1,107.0		+582	-185	1,246,234 185,508
102	941		343° -	-0.5	7.6	TH	+4.7	-2.9		1,109.4		+897	-283	1,246,549 185,367
103	1272		343° 50'	-	10.7	TH	+6.4	-4.3		1,107.0		+1219	-365	1,246,871 185,295
TP	1402		343° 47' 41"	-	2.7	-	-	-2.7			TP	+1343	-403	1,246,995 185,247
TP	1402			-	9.6	TH	+7.0	-2.6		1109.7	TP			
	1528		191° 03' 48"	-0.5	11.4	-	-	+11.4	1120.1		BS	+1502	+280	
	1528			-	11.3	270° -	-	+11.3			BS			
104	1318		190° 58'	-	8.1	-	-	-8.1		1,112.0		-1296	-239	1,247,201 185,288
105	988			-	8.8	-	-	-8.8		1,111.3		-972	-179	1,247,525 185,348
106	658		190° 05'	-	8.7	-	-	-8.7		1,111.4		-649	-110	1,247,848 185,417
107	329		188° 25'	-0.5	7.2	-	-	-7.2		1,112.9		-326	-45	1,248,171 185,492
#	352		189° 31' 30"	-	6.7	-	-	-6.7		1,113.4		-348	-55	1,248,149 185,472 # Heard County ↑

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4-19-85		B. Cotcamp		K. Greenfield		6834		WC		406		23		10	
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		Rooseville-7 1/2'		G.A.		CARROLL								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									1,120.1						CARROLL County ↓
108	0			-0.5	5.1	-		-5.1		1,115.0	π	0	0	1,248,497	185,527
109	330		356° 35'	--	6.7	89° 10'	+4.9	-1.9		1,118.2		+329	-23	1,248,826	185,504
110	659		352° 20'	--	7.1	89° 10'	+9.6	+2.5		1,122.6		+652	-94	1,249,149	185,433
111	984		350° 40'	--	6.9	89° 10'	+14.3	+7.4		1,127.5		+970	-168	1,249,467	185,359
112	1311		353° 05'	-0.5	5.7	89° 10'	+19.1	+13.4		1,133.5		+1300	-169	1,249,797	185,358
113	1613		358° 15'	--	10.0	88° 54'	+31.0	+21.0		1,141.1		+1612	-63	1,250,109	185,464
114	1876		4° 56' 28"	--	11.2	88° 50'	+38.2	+27.0			BS	+1870	+145	1,250,367	185,672
114	1876			--	11.1	271° 10'	+38.2	+27.1		1,147.2	BS				
	1772		212° 59' 04"	-0.5 +	7.5	91° -	+30.9	+38.4	638.3		BS	+1495	+952		
	1772			-- +	7.3	269° -	+30.9	+38.2	1185.5		BS				
115	1453		210° 20'	--	6.6	91° 08'	-28.7	-35.3		1,150.2		-1260	523	1,250,602	185,901
116	1135		206° 25'	--	10.1	91° 10'	-23.1	-33.2		1,152.3		-1021	-496	1,250,841	186,128
117	814		202° 10'	-0.5	10.6	91° 10'	-16.6	-27.2		1,158.3		-756	-301	1,251,106	186,323
118	485		201° 15'	--	9.7	91° -	-8.5	-18.2		1,167.3		-454	-172	1,251,408	186,452
119	155		203° 15'	--	6.3	91° -	-2.7	-9.6		1,176.5		-143	-60	1,251,719	186,564
π 11	0			--	5.1	-		-5.1		1,180.4	π	0	0	1,251,862	186,624
120	175		9° 15'	-0.5	5.0	89° -	+3.1	-1.9		1,183.6		+173	+27	1,252,035	186,651
121	585		9° 45'	--	6.5	89° -	+8.8	+2.3		1,187.8		+498	+81	1,252,360	186,705
122	835		8° 58'	--	8.0	89° -	+14.6	+6.6		1,192.1		+826	+123	1,252,688	186,747
123	1165		8° 35'	-0.5	7.6	89° -	+20.3	+12.7		1,198.2		+1153	+164	1,253,015	186,788

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4-19-85		O. Cotcamp		K. Greenfield		6834		WC MWG		23		11			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		Rooptville 7 1/2'		G.A.		CARROLL								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									1195.5						
124	1495		8° 12'	-0.5	6.6	88° 54'	+28.7	+22.1		1207.6		+482	+200	1,253,344	186,827
TP	1800		6° 52' 41"	--	12.8	88° 36'	+44.0	+31.2		1216.7	TP	+1788	+200	1,253,650	186,824
TP	1800			--	12.7	271° 24'	+44.0	+31.2			TP				
	1838		173° 08' 00"	-0.5 +	14.6	89° 26'	-18.2	-3.6	1213.1		BS	+1823	-236		
	1838			-- +	14.5	276° 34'	-18.2	-3.7			BS				
125	1814		173° 27'	--	12.6	89° 30'	+15.8	+3.2		1,216.3		-1800	+223	1,253,673	186,811
126	1486		174° 10'	-0.5	10.8	89° 30'	+13.0	+2.2		1,215.3		-1477	+164	1,253,996	186,752
127	1157		174° 10'	--	11.3	89° 40'	+6.7	-4.6		1,208.5		-1150	+128	1,254,323	186,716
128	827		173°	--	8.1	-	-	-8.1		1,205.0		-820	+108	1,254,653	186,696
129	499		170° 05'	--	6.7	-	-	-6.7		1,206.4		-491	+90	1,254,982	186,698
130	170		166° 50'	-0.5	5.3	-	-	-5.3		1,207.8		-165	+40	1,255,308	186,628
X	0			--	5.1	-	-	-5.1		1,208.0	X	0	0	1,255,473	186,588
131	142		336°	--	5.9	-	-	-5.9		1,207.2		+147	-67	1,255,620	186,521
132	491		333° 45'	--	8.8	-	-	-8.8		1,204.3		+438	-221	1,255,911	186,367
133	818		329° 15'	--	12.0	-	-	-12.0		1,201.1		+699	-424	1,256,172	186,164
TP	968		327° 59' 20"	-0.5	8.3	BH	-4.8	-13.1			TP	+816	-520	1,256,289	186,068
TP	968			--	8.2	BH 210'	-4.8	-13.0		1200.1	TP				
	955		142° 52' 58"	-0.5 +	9.9	-	-	+9.9	1210.0		BS	+756	-583		
	955			-- +	5.1	BH	+4.8	+9.9			BS				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4-19-85		B. Cotcamp		K. Greenfield		6834		W/C		23		12			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		Rooseville - 7 1/2'		G.A.		CARROLL								W. Cass. Dy	
STATION NO.	SLOPE DISTANCE	PLOTting DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									1,210.0						
134	777		143° 18'	--	11.6	-		-11.6		1,198.4		-619	+470	1,256,426	185,955
135	447		143° 35'	-0.5	11.3	-		-11.3		1,198.7		-357	+268	1,256,688	185,753
136	117		146° 50'	--	6.9	-		-6.9		1,203.1		-90	+75	1,256,955	185,560
TP	0			--	5.1	-		-5.1		1,204.9	TP	0	0	1,257,045	185,485
137	220		347° 10'	--	5.1	-		-5.1		1,204.9		+214	-51	1,257,259	185,439
138	549		356° -	--	7.4	TH	+2.7	-4.7		1,205.3		+540	-100	1,257,585	185,385
139	875		354° -	-0.5	7.7	TH	+4.4	-3.3		1,206.7		+869	-99	1,257,914	185,386
TP	888		353° 19' 34"	-0.5	7.5	TH	+4.4	-3.1		1206.9	TP	+881	-111	1,257,926	185,374
TP	1022		354° 56' 01"	-0.3	3.6	-		-3.6			TP	+1018	-96	1,258,063	185,389
TP	1022			--	3.5	270°		-3.5		1206.5	TP				
	1502		181° 58' 12"	-0.3	9.2	89°	-26.2	-17.0	1189.5		BS	+1501	+44		
	1502			--	9.1	270°	-26.2	-17.1			BS				
140	1320		181° 55'	--	6.4	89° 10'	+19.2	+12.8		1,202.3		-1319	-37	1,258,245	185,396
141	990		-	-0.3	8.9	89° 30'	+8.6	-0.3		1,189.2		-990	-28	1,258,574	185,405
142	660		-	--	10.9	-		+10.9		1,178.6		-660	-19	1,258,904	185,414
143	330		-	--	10.1	-		-10.1		1,179.4		-330	-9	1,259,234	185,424
144	0			--	5.1	-		-5.1		1,184.4	TP	0	0	1,259,564	185,433
145	330		12° -	--	8.7	-		-8.7		1,190.8		+323	+67	1,259,887	185,500
146	658		9° 20'	--	10.7	-		-10.7		1,179.8		+650	+103	1,260,214	185,536
147	983		3° 40'	-0.3	4.5	-		-4.5		1,185.0		+981	+58	1,260,545	185,491

HWAY INTER. X 1,257,905
EL 1206.0 X 185,370

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAKE		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4- -85		B. G. CAMP		K. Greenfield		6834		WC		1504 23		13			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		Roopville - 7 1/2'		G.A.		CARROLL								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									1,189.5						
148	1286		357 15	-0.3	10.3	89° 20'	+15.0	+4.7		1,194.2		+1284	-68	1,260,848	185,365
149	1581		351 22 39	-	7.0	89° 20'	+18.4	+11.4			TP	+1562	-245	1,261,126	185,188
149	1581			-	6.9	270° 40'	-18.4	+11.5		1201.0	TP				
	1673		145 49 43	-0.3	7.5	TH	-8.4	-0.9	1200.1		BS	+1379	-947		
	1673			-	7.4	TH 270°	-8.4	-1.0			BS				
150	1343		145 50	-	10.9	TH	+6.7	-4.2		1,195.9		-1107	+760	1,261,398	185,001
151	1013		-	-	10.2	BM	-5.1	-15.3		1,184.8		-835	+573	1,261,670	184,814
152	683		-	-0.3	9.0	91° -	-11.9	-20.9		1,179.2		-563	+387	1,261,942	184,628
153	353		145 45	-	8.9	91° -	-6.2	-15.1		1,185.0		-291	+200	1,262,214	184,441
154	55		84 50	-	6.1	91° -	-1.0	-7.1		1,193.0		+5	+55	1,262,510	184,296
π	0			-	5.1	-		-5.1		1,195.0	π	0	0	1,262,505	184,241
155	327		357 50	-0.3	5.3	90° 50'	-4.8	-10.1		1,190.0		+327	-14	1,262,832	184,227
156	652		0 25 05	-	9.3	91° -	-11.4	-20.7			TP	+652	+1	1,263,157	184,242
156	652			-	9.2	269° -	-11.4	-20.6		1179.5	TP				
	987		191 23 55	-0.3	8.2	88° 10'	-31.6	-23.4	1156.1		BS	+968	+190		
	987			-	8.1	271° 50'	-31.6	-23.5			BS				
157	657		190 25	-	6.1	88° 50'	+13.4	+7.3		1,163.4		-647	-115	1,263,478	184,317
158	330		183 40	-	9.0	88° 50'	+6.7	-2.3		1,153.8		-329	-19	1,263,776	184,413
159	0			-	5.1	-		-5.1		1,151.0	π	0	0	1,264,125	184,432
160	330		353 30	-0.3	6.3	89° 40'	+1.9	-4.4		1,151.7		+328	-39	1,264,453	184,393

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4-85		B. Got Camp		K. Greenfield		6834		WC		23		14			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		Roopville - 7 1/2'		G.A.		CARROLL								W. Cass. Dy	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									1,156.1						
161	658		349° 55'	-0.3	8.7	89° 40'	+3.8	-4.9		1,151.2		+647	-119	1,264,772	184,313
TP	950		347° 59' 24"	--	7.0	-	-	-7.0		1,149.1	TP	+928	-203	1,265,053	184,229
TP	950			--	4.2	90° 10'	-2.8	-7.0			TP				
	1619		140° 23' 52"	-0.3+	4.9	89° 10'	-23.5	-18.6		1,130.5	BS	+1242	-1038		
	1619			--+	4.8	270° 50'	-23.5	-18.7			BS				
162	1584		140° -	--	9.7	89° -	+27.6	+17.9		1,148.4		-1208	+1025	1,265,087	184,216
163	1271		135° 55'	--	11.0	89° -	+22.2	+11.2		1,141.7		-908	+889	1,265,387	184,080
164	967		129° 15'	--	11.6	89° -	+16.9	+5.3		1,135.8		-608	+752	1,265,687	183,943
165	657		121° 45'	-0.3	10.0	89° 10'	+9.6	-0.4		1,130.1		-343	+560	1,265,952	183,751
166	330		115° 05'	--	7.2	89° 10'	+4.8	-2.4		1,128.1		-138	+300	1,266,157	183,491
167	0			--	5.1	-	-	-5.1		1,125.4	TP	0	0	1,266,295	183,191
TP	284		293° 04' 36"	--	8.3	-	-	-8.3		1,122.2	TP	+110	-262	1,266,405	182,929
168	330		296° 05'	-0.3	10.0	-	-	-10.0		1,120.5		+144	-297	1,266,439	182,894
169	647		306° 15'	--	12.1	BH	-3.2	-15.3		1,115.2		+380	-524	1,266,675	182,664
TP	922		316° 22' 06"	-0.3	4.8	90° 50'	-13.4	-18.2		1,112.3	TP	+664	-640	1,266,959	182,551
TP	922			--	4.7	269° 10'	-13.4	-15.1			TP				
	1012		162° 07' 08"	--+	13.9	89° 50'	-2.9	+11.0		1,123.3	BS	+961	-316		
	1012			--+	13.8	270° 10'	-2.9	+10.9			BS				
170	990		162° 20'	-0.3	11.9	89° 50'	+1.1	-10.8		1,112.5		-942	+305	1,266,978	182,540
171	660		-	--	6.2	89° 50'	+0.8	-5.4		1,117.9		-628	+204	1,267,292	182,439

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
4-22-85		B. Cotcamp		K. Greenfield		6834		W.C. KWT		23	15			
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER			
GEORGIA		Roooville-7 1/2'		G.A.		CARROLL					W. Cassidy			
STATION NO.	SLOPE DISTANCE	PLOTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
			0						1,123.3					
172	330		163 15	-0.3	6.3	89°	+5.8	-0.5		1,122.8		-316	+97	1,267,604 182,332
173	0			--	5.1	-		-5.1		1,118.2	TP	0	0	1,267,920 182,235
174	330		344 40	--	8.2	90 40	-3.8	-12.0		1,111.3		+318	-89	1,268,238 182,446
175	660		344 20	--	7.6	90 40	-7.7	-15.3		1,108.0		+635	-182	1,268,555 182,053
TP	884		341 32 53	-0.3	8.3	91°	-15.4	-23.7			TP	+837	-284	1,268,757 181,951
TP	884			--	8.2	269°	-15.4	-23.6		1099.7	TP			
	1093		146 12 28	--	8.0	-		+8.0	1107.7		BS	+836	-704	
	1093			--	13.5	TM	-5.5	+8.0			BS			
176	989		140 -	-0.3	10.0	-		-10.0		1,097.7		-754	+640	1,268,839 181,887
177	659		138 56	--	6.2	-		-6.2		1,101.5		-494	+436	1,269,099 181,683
178	330		136 50	--	5.1	-		-5.1		1,102.6		-240	+227	1,269,353 181,474
179	0			--	5.1	-		-5.1		1,102.6	TP	0	0	1,269,593 181,247
179	178		310 21 50	-0.3	3.8	-		-3.8		1103.9	TP	+115	-136	1,269,708 181,111
180	330		314 40	--	11.0	88 10	+10.6	-0.4		1,107.3		+231	-236	1,269,824 181,011
181	659		313 25	--	5.9	88 10	+21.1	+15.2		1,122.9		+450	-481	1,270,043 180,766
182	988		311 21 48	+0.1	8.6	88 20	-28.7	+20.1			TP	+654	-740	1,270,247 180,507
182	988			+0.1	8.5	271 40	28.7	+20.2		1127.7	TP			
	1314		142 42 23	--	5.9	88 30	-34.4	-28.5	1099.4		BS	+1046	-794	
	1314			--	5.8	271 30	-30.4	-28.6			BS			

4 1269708 X=1269725
EL 1105.0 X=181105

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
4-22-85		B. Cotcamp		K. Greenfield		6834		WC RW		23	76				
AREA		TOP MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER					
GEORGIA		Roopville - 7 1/2'		G.A.	CARROLL					W. Cassidy					
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									1,099.4						
183	990		145° 25'	+0.1	5.8	88° 30'	+25.9	+20.1		1,119.5		-816	+561	1,270,477	180,274
184	660		-	--	6.2	89° 20'	+7.7	+1.5		1,100.9		-544	+374	1,270,749	180,087
185	330		-	--	7.7	89° 20'	+3.8	-3.9		1,095.5		-272	+187	1,271,021	179,900
186	0			--	5.1	-		-5.1		1,094.3	T	0	0	1,271,293	179,713
187	329		316° 40'	--	6.8	93°	-17.2	-24.0		1,075.4		+240	-225	1,271,533	179,488
188	658		317° 25'	--	11.1	93°	-34.4	-45.5		1,053.9		+485	-444	1,271,778	179,269
189	969		324° 45'	+0.1	12.3	91° 50'	-31.0	-43.3		1,056.1		+792	-558	1,272,085	179,155
190	1273		331° 30'	--	10.0	91° 20'	-29.6	-39.6		1,059.8		+1120	-605	1,272,413	179,108
191	1581		336° 20'	--	6.1	90° 20'	-2.2	-15.3		1,084.1		+1449	-632	1,272,742	179,081
192	1881		340° 41' 27"	--	5.3	90° 10'	-5.5	-10.8			TP	+1776	-619	1,273,069	179,094
192	1881			+0.1	5.2	269° 50'	-5.5	-10.7		1088.7	TP				
	989		182° 45' 05"	+0.1	4.4	-		+4.4		1093.1	BS	+988	+49		
	989			--	9.3	TM	-4.9	+4.4			BS				
193	660		182° 45'	--	10.1	BM	-3.3	-13.4		1,079.7		-659	-33	1,273,398	179,110
194	330		-	--	6.3	-		-6.3		1,086.8		-330	-16	1,273,727	179,127
1 1/2	101		189° 32' 56"	+0.1	3.0	-		-3.0		1090.1	1 1/2	-100	-17	1,273,957	179,126
195	0			--	5.1	-		-5.1		1,088.0	T	0	0	1,274,057	179,143
196	330		2° 40'	--	11.8	-		-11.8		1,081.3		+330	+16	1,274,387	179,199
197	660		-	--	12.0	BM	-3.3	-15.3		1,077.8		+659	+32	1,274,716	179,175
198	989		1° 40'	+0.1	11.6	-		-11.6		1,081.5		+989	+30	1,275,046	179,173

EL. 1091.0 x 1273.910
Y-inter. x 179,120

Roopville - 7 1/2' ↑
Bowdon East - 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				
4-22-85		B. Cotcamp		K. Greenfield		6834		WC KWG		23	17				
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
GEORGIA		Bowdon East-7 1/2		G.A.		CARROLL					W. Cassidy				
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									1,093.1						
199	1275		354 13 16	+0.1	11.2	TH	+6.4	-4.8		1,093.3	TP	+1269	-126	1,275,326	179,017
199	1275			--	11.1	TH ₂₇₀	+6.4	-4.7			TP				
	2179		134 53 08	+0.1	+14.3	88° 20'	-63.3	-49.0		1,039.3	BS	+1540	-1541		
	2179			--	+14.2	271° 40'	-63.3	-49.1			BS				
200	1850		134 53	--	8.0	88° 30'	+48.4	+40.4		1,079.7		-1308	+1309	1,275,558	179,785
201	1520		-	--	10.8	88° 30'	+39.8	+29.0		1,068.3		-1074	+1075	1,275,792	178,551
202	1190		-	+0.1	13.1	88° 30'	+31.1	+18.0		1,057.3		-841	+842	1,276,025	178,318
203	860		-	--	11.0	88° 30'	+22.5	+11.5		1,050.9		-608	+608	1,276,258	178,084
204	530		-	--	5.4	88° 30'	+13.9	+8.5		1,047.8		-375	+375	1,276,491	177,851
205	200		-	--	4.7	87° 30'	+8.7	+4.0		1,043.3		-141	+141	1,276,725	177,617
Σ	0			+0.1	5.1	-		-5.1		1,034.2	Σ	0	0	1,276,866	177,476
206	132		309 -	--	5.9	92° 50'	-6.5	-12.4		1,026.9		+83	-102	1,276,949	177,374
207	460		307 -	--	8.8	92° 50'	-22.7	-31.5		1,007.8		+277	-367	1,277,143	177,109
208	790		306 30	--	10.8	92° 50'	-39.0	-49.5		989.5		+471	-634	1,277,337	176,842
209	1120		-	--	7.3	92° 50'	-55.3	-62.6		976.7		+668	-899	1,277,534	176,577
210	1450		306 21	+0.1	10.0	92° 10'	-54.8	-64.5		974.5		+861	-1166	1,277,727	176,310
211	1781		-	--	7.5	91° 50'	-52.0	-64.5		974.8		+1058	-1433	1,277,924	176,043
Σ	2061		306 01 36	--	4.4	91° 50'	-65.9	-70.3		969.6	Σ	+1214	-1664	1,278,086	175,812
212	2111		306 30	+0.1	10.2	91° 40'	-61.4	-71.6		967.7		+1259	-1695	1,278,125	175,781

EL. 976.0 X 1278100
Inter X 175.900

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4-23-85		B. Cotcamp		K. Greenfield		6834		WC RWB		23		18			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		Bowdon East - 7 1/2'		G.A.		CARROLL								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									1039.3						
TP	2281		306 32 26	+0.1	5.8	91° 40'	-66.3	-72.1		967.2	TP	+1361	-1829	1,278,227	175,647
TP	2281			--	5.7	268 20'	-66.3	-72.0			TP				
	1152		140 36 27	+0.1	5.3	88° 40'	-26.8	-21.5	945.7		BS	+991	-729		
	1152		"	--	5.2	271 20'	-26.8	-21.6			BS				
213	988		139 -	--	6.0	88° 30'	+25.9	+19.9		965.6		-747	+647	1,278,371	175,565
214	660		138° 45'	--	7.7	88° 30'	+17.3	+9.6		955.3		-497	+434	1,278,621	175,352
215	330		-	--	10.9	88° 30'	+5.6	-2.3		943.4		-248	+217	1,278,870	175,135
216	0			+0.1	5.1	-		-5.1		940.6	T	0	0	1,279,118	174,918
217	330		327 30	--	6.9	89° 20'	+3.8	-3.1		942.6		+279	-177	1,279,397	174,741
218	660		328 20	--	7.9	89° 20'	+7.7	-0.2		945.5		+562	-346	1,279,680	174,572
219	990		328 50	-	8.8	89° 20'	+11.5	+2.7		948.4		+848	-511	1,279,966	174,407
220	1319		329 45	+0.1	8.8	89° 20'	+15.3	+5.5		952.2		+1141	-662	1,280,259	174,256
TP	1550		327 53 40	+0.1	10.5	89° 20'	+18.0	+7.5		953.2	TP	+1314	-821	1,280,432	174,097
TP	1550			-	10.4	270 40'	+18.0	+7.6			TP				
	1273		119° 26 04	+0.3	12.5	91° 10'	+25.9	+38.4	991.6		BS	+631	-1105		
	1273			+0.3	12.4	268 50'	+25.9	+38.3			BS				
221	1182		119 25	--	12.7	91° 20'	-27.5	-40.2		951.4		-586	+1027	1,280,477	174,019
221	896		116 06 28	--	9.2	92° 20'	-36.4	-45.6		946.0	T	-398	+902	1,280,665	173,794
222	863		115 05'	+0.3	9.8	92° 20'	-35.1	-44.9		946.7		-370	+780	1,280,693	173,772
223	533		-	--	9.8	92° 20'	-21.7	-31.5		960.1		-228	+482	1,280,835	173,474

EL 944.0 71280700
Inter. X 173850

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
4-22-85		B. Catcamp		K. Greenfield		6834		W.C. KUC		23	19						
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
GEORGIA		BowDon East-7 1/2		GA.	CARROLL					W. Cassidy							
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS	
												LAT.	DEP.	Y	X		
									991.6								
224	204		116 20	+03	8.0	91 20	-4.7	-72.7		978.9		-91	+182	1,280,972	173,174		
K	0			--	5.1	-		-5.1		986.5	K	0	0	1,281,063	172,992		
225	126		297	--	7.4	88 20	+3.7	-3.7		987.9		+58	-112	1,281,121	172,880		
226	454		302 45	--	6.2	88 20	+13.2	+7.0		998.6		+248	-381	1,281,311	172,611		
TP	607		304 19 13	+03	1.7	88 20	+17.6	+15.9		1007.5	TP	+345	-499	1,281,408	172,493		
TP	607			+03	3.5	88 10	+19.4	+15.9			TP						
	648		136 23 32	--	11.6	89 0	-11.3	+0.3	1007.8		BS	+471	-444				
	648			--	9.7	89 10	-9.4	+0.3			BS						
227	471		134 50	+03	5.5	89 -	+8.2	-2.2		1,010.5		-334	+332	1,281,545	172,381		
228	141		130 -	--	4.7	89 -	+2.5	-2.2		1,005.6		-91	+108	1,281,788	172,157		
K	0			--	5.1	-		-5.1		1,002.7	K	0	0	1,281,879	172,049		
229	189		302 10	--	10.3	89 -	+3.3	-2.0		1,000.8		+101	-159	1,281,980	171,890		
230	519		- -	--	12.2	89 -	+9.1	-3.1		1004.7	#1	+279	-438	1,282,158	171,611	EL 1003.0 X 1292195 T. inter. V 171,685	
231	849		- -	+03	3.2	89 -	+14.8	+11.6		1,019.4		+456	-716	1,282,335	171,333		
232	1179		- -	--	12.6	88 -	-4.1	+28.5		1,036.3		+633	-995	1,282,512	171,054		
233	1508		301 50	-	7.1	88 -	+52.6	+45.5		1,053.3		+802	-1277	1,282,681	170,772		
TP	1612		301 00 39	--	7.1	88 10	+51.6	+44.5		1052.3	TP	+837	-1377	1,282,716	170,672		
TP	1612			+03	7.0	271 50	+51.6	+44.6			TP						
	545		123 50 47	--	1.5	-		+1.5	1053.8		BS	+306	-451				
	545			--	4.2	TM	-2.7	+1.5			BS						

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	4-22-85	INSTRUMENT MAN	B. Cotcamp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	WC	KWB	LINE NO.	23	PAGE	20
AREA	GEORGIA	TOPO MAP	Bowdon East/West	STATE	G.A.	COUNTY	CARROLL	TWP	RANGE	PPM	PARTY MANAGER W. Cassidy			

STATION NO.	SLOPE DISTANCE	PLOTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS
												LAT.	DEP.	Y	X	
									1,053.8							
234	330		130° 55'	+0.3	5.3	TM	+1.7	-3.6		1,050.2		-217	+248	1,282,805	170,469	
235	0			--	5.1	-		-5.1		1,048.7	TP	0	0	1,283,022	170,221	
236	330		311° 05'	--	5.1	89° -	+5.8	+0.7		1,054.5		+218	-248	1,283,240	169,973	Bowdon East - 7 1/2'
237	660			--	5.9	88° 40'	+15.4	+9.5		1,063.3		+436	-495	1,283,458	169,726	Bowdon West - 7 1/2'
238	989		312° 02' 10"	+0.3	9.6	88° 40'	+23.0	+13.4		1067.2	TP	+666	-731	1,283,688	169,490	
238	989			--	6.7	88° 50'	+20.1	+13.4			TP					
	1213		147° 02' 27"	--	15.0	BH	+6.1	+21.1	1098.3		BS	+1021	-655			
	1213			--	14.9	BH 270	+6.1	+21.0			BS					
239	883		147° 30'	+0.3	6.2	91° -	-15.4	-21.6		1,066.7		-747	+471	1,283,962	169,306	*240
240	553			--	9.7	91° -	-9.6	-19.3		1,069.0		-468	+295	1,284,241	169,130	LAST STATION
241	223			--	5.1	91° -	-3.9	-9.0		1,079.3		-189	+119	1,284,520	168,954	with geophones due to town of Bowdon
	0				5.1	-		-5.1		1,083.2	TP	0	0	1,284,709	168,835	SKIP to 277
242	125		9° -		5.1	TM	+0.6	-4.5		1,083.8						
243	453		1° 20'		6.3	-		-6.3		1,082.0						
244	783		0° 30'		8.5	-		-8.5		1,079.8						
245	1113				7.2	-		-7.2		1,081.1						
246	1443				8.8	-		-8.8		1,079.5						
247	1771		1° 18'		14.0	89° 48'	+6.2	-7.8		1,080.5						
248	2101		1° 14'		13.6	89° 50'	+6.1	-7.5		1,080.8						
249	2431		1° 10'		9.8	89° 46'	+9.9	+0.1		1,088.4						

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
4-22-85		B. Cotcamp		K. Greenfield		6834		WC KVG		23	21			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE	PPM	PARTY MANAGER		
GEORGIA		Bowdon West-7 1/2'		G.A.		CARROLL						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.	
									1,088.3					
250	2761		0° 41'		5.3	89° 46'	+11.2	+5.9		1,094.2				
TP	2968		6° 33' 27"		5.5	89° 46'	+12.1	+6.6		1095.0	TP			
TP	2968				5.2	270° 14'	+12.1	+6.9			TP			
	325		180° 06' 59"		+4.4	-		+4.4	1099.4		BS			
	325				+6.1	TH	-1.6	+4.5			BS			
251	203		182° 15'		4.1	-		-4.1		1,095.3				
T	0				5.1	-		-5.1		1,094.3	T	0	0	
252	127		0° 20'		12.8	-		-12.8		1,086.6				
253	317		312° 07'		7.7	93° -	-16.6	-24.3		1,075.1				
254	572		308° 10'		9.8	90° 40'	-6.7	-16.5		1,082.9				
TP	705		306° 31' 46"		5.1	90° 20'	-4.1	-9.2		1090.2	TP			
TP	705				5.0	269° 40'	-4.1	-9.1			TP			
	345		133° 13' 16"		+8.2	89° -	-6.0	+2.2	1092.4		BS			
	345				+7.2	89° 10'	-5.0	+2.2			BS			
255	304		89° 15'		8.1	87° 10'	+15.0	+6.9		1,099.3				
T	0				5.1	-		-5.1		1,087.3				
256	29		24° -		5.1	87° 10'	+1.4	-3.7		1,088.7				
257	348		333° 55'		4.5	88° 50'	+7.1	+2.6		1,095.0				
258	677		332° 16' 02"		9.7	89° 16'	+9.8	+0.1		1092.5	TP			
258	677				9.7	270° 50'	+9.8	+0.1			TP			

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
4-23-85		B. Cotcamp		K. Greenfield		6834		WC KUG		23	22			
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER			
GEORGIA		Bowdon West-7 1/2'		G.A.		CARROLL					W. Cassidy			
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
										1,092.5				
	1243		147° 30' 52"		+ 3.5	88° 30'	-32.5	-29.0	1063.5		BS			
	1243				+ 7.1	88° 20'	-36.1	-29.0		BS				
259	914		146° 30'		5.2	89° 10'	+13.3	+8.1		1,071.6				
260	584		- -		10.6	89° 10'	+8.5	-2.1		1,061.4				
261	256		146 -		10.9	89° 10'	+3.7	-7.2		1,056.3				
π	0				5.1	-		-5.1		1,058.4	π	0	0	
262	80		352° 55'		6.0	89° 10'	+1.2	-4.8		1,058.7				
263	407		338° 40'		7.0	-		-7.0		1,056.5				
264	733		343° 30' 33"		7.4	90° 20'	-4.3	-11.7	}	1051.8	TP			
264	733				7.3	269° 40'	-4.3	-11.6		TP				
	1422	1420.82	176° 31' 39"		+ 0.9	87° 40'	-57.8	-56.9	}		BS			
	1422				+ 0.8	272° 20'	-57.8	-57.0		994.8	BS			
265	1091		176° 20'		5.2	87° 30'	+47.5	+42.3		1,037.1				
266	761		176° 10'		4.9	87° 30'	+33.2	+28.3		1,023.1				
267	431		175° 30'		5.7	89° 30'	+38	-1.9		992.9				
268	105		185 -		8.1	92° 10'	-4.0	-12.1		982.7				
π	0				5.1	-		-5.1		989.7	π			
#	225		179° 46' 22"		6.0	92° 10'	-8.5	-14.5		980.3	#			
269	232		340 -		4.3	88° 10'	+7.4	+1.1		995.9				→ 1,292.195 X166.600
270	561		342°		10.0	88° 50'	+11.4	+1.4		996.2				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
4-23-85		B. Cotcamp		K. Greenfield		6834		WC KWA		23	23				
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
GEORGIA		Bowdon West - 7 1/2'		G.A.		CARROLL					W. Cass. dy				
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									994.8						
TP	944		339° 20' 27"		11.3	89° 20'	+11.0	-0.3		994.5	TP				
TP	944				11.2	89° 40'	+11.0	-0.2			TP				
	351		91° 58' 08"	+	10.1	86° 50'	-19.4	-9.3	985.2		BS				
	351			+	14.2	86° 10'	-23.4	-9.2			BS				
271	374		103° 20'		6.0	89° 20'	+4.3	-1.7		983.5					
272	46		95° 20'		6.0	89° 20'	+0.5	-5.5		979.7					
π	0				5.1	-		-5.1		980.1	π	0	0		
273	282		264° 10'		8.6	89° 20'	+3.3	-5.3		979.9					
274	609		259° 45'		6.8	89° 20'	+7.1	+0.3		985.5					
TP	816		262° 28' 53"		9.7	88° 30'	+21.4	+11.7		996.9	TP				
TP	816				7.3	88° 40'	+19.0	+11.7			TP				
	1109	1109.08	119° 07' 58"	-0.4	7.3	92° 20'	+45.1	+52.4	1049.3		BS				
	1109				7.2	267° 40'	+45.1	+52.3			BS				
275	989		119° 08'	-0.4	5.8	92° 20'	-40.2	-46.0		1,003.3		-475	+867	1,293,668	165,207
276	660			--	12.0	92° 20'	-26.8	-38.8		1,010.5		-317	+579	1,293,826	164,919
277	330			--	12.0	92° 20'	-13.4	-25.4		1,023.9		-159	+289	1,293,984	164,629
278	0				5.1	-		-5.1		1,044.2	π	0	0	1,294,143	164,340
π	221		315° 41' 32"	-0.4	9.6	-		-9.6		1039.7	BS	-157	+155	1,294,366	164,185
279	320		324° 50'	--	10.3	-		-10.3		1,039.0		+260	-186	1,294,403	164,154

EL. 1040.0 9,294,300
 T. Intel. X 164,185
 Ref. Horizontal from skip.

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4-23-85		B. Ostrom		K. Greenfield		6834		WC		23		24			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		BOWDON West-7 1/2'		G.A.		CARRUL								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									1,049.3						
TP	564		335° 50' 15"	-0.4	6.0	89° 30'	+4.9	-1.1		1048.2	TP	+513	-234	1,294,660	164,102
TP	564				5.9	270° 30'	+4.9	-1.0			TP	+4	-4		
	994		182° 36' 39"	--	+9.8	92° -	+34.7	+44.5	1092.7		BS	+993	+38		
	994				+9.7	268° -	+34.7	+44.4			BS	+4	-4		
280	921		182° 55'	-0.4	10.2	92° -	-32.1	-42.3		1,050.4		-920	-40	1,294,737	164,096
281	592		181° 05'	--	10.9	92° -	-20.6	-31.5		1,061.2		-592	-7	1,295,065	164,128
282	264		175° 50'	-	6.1	92° -	-9.2	-15.3		1,077.4		-263	+21	1,295,394	164,159
X	0				5.1	-		-5.1		1,087.6	X	0	0	1,295,657	164,136
283	67		345° 40'	-0.4	4.8	89° -	+1.2	-3.6		1,089.1		+65	-17	1,295,722	164,119
284	397		346° 35'	--	7.2	91° 40'	-11.5	-19.7		1,073.0		+386	-95	1,296,043	164,041
285	727		346° 30'	--	12.5	91° 40'	-21.1	-33.6		1,059.1		+706	-175	1,296,363	163,961
286	1057		346° 10'	--	7.9	91° 20'	-24.6	-32.5		1,060.2		+1025	-260	1,296,682	163,876
287	1386		346° 45'	--	10.8	90° 40'	-16.1	-26.9		1,065.8		+1347	-327	1,297,004	163,809
TP	1579		347° 04' 39"	-	10.9	90° 40'	-18.4	-29.3	1063.4		TP	+1536	-364	1,297,197	163,769
TP	1579				10.8	269° 20'	-18.4	-29.2			TP	+4	-3		
	1958		186° 47' 36"	-0.4	+10.9	BH	+9.8	+20.7	1084.1		BS	+1946	+218		
	1958				+10.8	BH 270°	+9.8	+20.6			BS	+4	-3		
288	1217		186° 40'	-	11.3	BH	-9.1	-20.4		1,063.7		-1806	-198	1,297,341	163,786
289	1487		-	-	8.3	90° 30'	+3.0	-21.3		1,062.8		-1478	-162	1,297,669	163,822
290	1157		186° 25'	-	9.0	90° 30'	-10.1	-19.1		1,065.0		-1151	-121	1,297,996	163,863

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	4-23-85	INSTRUMENT MAN	B. Cotcamp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	WC	100	LINE NO.	23	PAGE	25
AREA	GEORGIA	TOPO MAP	Bowdon west-7 1/2'	STATE	G.A.	COUNTY	CARROLL	TWP		RANGE	PPM	PARTY MANAGER W. Cassidy		

STATION NO.	SLOPE DISTANCE	PLOTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS
												LAT.	DEP.	Y	X	
									1,084.1							
291	828		185° 35'	-0.4	7.2	91° 20'	-19.3	-26.5		1,057.6		-825	-75	1,298,322	163,909	
292	499		183° 50'	--	12.2	91° 20'	-11.6	-23.8		1,060.3		-498	-30	1,298,649	163,954	
293	172		175° 20'	--	9.1	91° 20'	-4.0	-13.1		1,071.0		-171	+15	1,298,976	163,999	
π	0				5.1	—		-5.1		1,079.0	π	0	0	1,299,147	163,984	
294	157		344° -	-0.4	6.3	88° -	+5.5	-0.8		1,083.3		+151	-44	1,299,298	163,940	
295	483		336° -	--	9.0	88° -	+16.8	+7.8		1,091.9		+440	-200	1,299,587	163,794	
296	804		330° 30'	--	9.7	88° 12'	+25.2	+15.5		1,099.6		+697	-401	1,299,844	163,583	
IF	970		328° 27' 26"	--	11.9	88° 10'	+31.0	+19.1		1,103.2	IF	+823	-513	1,299,970	163,471	IF T - zster 1103.0
297	1133		327° 55'	-0.4	14.6	88° 12'	+35.6	+21.0		1,105.1		+956	-608	1,300,103	163,376	
298	1463		327° 05'	--	19.8	88° 12'	+45.9	+26.1		1,110.2		+1223	-804	1,300,370	163,180	
299	1791		325° 45'	--	10.4	88° 30'	+46.9	+36.5		1,120.6		+1473	-1018	1,300,620	162,966	
TP	2073	2072.3	326° 32' 53"	--	6.9	88° 30'	+54.3	+47.4		1131.5	TP	+1721	-1154	1,300,892	162,827	
TP	2073				6.8	211° 30'	+54.3	+47.5			TP	+4	-3			
	1832		184° 06' 03"	0.4	+10.3	89° -	-32.0	-21.7	1109.8		BS	+1828	118			
	1832				+10.2	271° -	-32.0	-21.8			BS	+3	-3			
300	1783		184° 25'	--	2.0	89° 16'	+22.8	+20.8		1,130.6		-1779	-125	1,300,924	162,817	
301	1455		185° -	--	4.0	89° 20'	+16.9	+12.9		1,122.7		-1450	-117	1,301,253	162,825	
302	1125		184° 45'	--	6.7	89° 50'	+3.3	-3.4		1,106.4		-1122	-85	1,301,581	162,857	
303	795		184° 15'	--	10.3	90° 20'	-4.6	-14.9		1,094.9		-793	-53	1,301,910	162,889	
304	467		184° 35'	--	8.1	90° 20'	-2.7	-10.8		1,099.0		-466	-34	1,302,237	162,908	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4-23-85		B. Cotcamp		K. Greenfield		6834		WC		23		26			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		DODDAN West - 7 1/2'		GA.		CARROLL								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
									1,109.8						
305	155		207° 05'	-0.4	6.8	90° 20'	-0.9	-7.7		1,102.1		-138	-70	1,302,565	162,872
TP	0				5.1	-		-5.1		1,104.7	TP	0	0	1,302,703	162,942
TP	112		268° 38' 04"	--	11.2	90° 20'	-0.7	-11.9		1097.9	TP	-3	-112	1,302,700	162,830
306	230		323° 45'	--	7.2	93° 20'	-13.4	-20.6		1089.2		+185	-137	1,302,888	162,805
307	537		342° 55'	--	7.0	92° 20'	-21.8	-28.8		1081.0		+512	-161	1,303,215	162,781
308	863		347° 35'	-0.4	9.3	91° 20'	-20.1	-29.4		1080.4		+842	-191	1,303,545	162,751
309	1190		349° 45'	--	7.0	91° 20'	-27.7	-34.7		1075.1		+1170	-220	1,303,873	162,722
310	1518		350° 15'	--	4.0	91° 20'	-35.3	-39.3		1070.5		+1494	-268	1,304,197	162,674
311	1848		- - -	--	11.3	90° 52'	-27.9	-39.2		1070.6		+1819	-326	1,304,522	162,616
312	2179		349° 56' 43"	--	7.2	90° 40'	-25.3	-32.5		1077.3	TP	+2143	-395	1,304,846	162,547
312	2179				7.1	269° 20'	-25.3	-32.4			TP				
	939		153° 37' 04"	-0.4	+9.8	89° 20'	-10.9	-1.1	1076.2		BS	+838	-423		
	939				+4.5	270° 20'	-5.5	-1.0			BS				
313	639		145° 12'	-	5.8	89° 40'	+3.7	-2.1		1074.1		-522	+368	1,305,162	162,492
TP	490		137° 27' 25"	-	10.6	89° 40'	+2.9	-7.7		1068.5	TP	-359	+334	1,305,325	162,458
314	330		136° 10'	-	7.8	90° 10'	-1.0	-8.8		1067.4		-236	+230	1,305,448	162,354
315	0				5.1	-		-5.1		1071.1	TP	0	0	1,305,684	162,124
316	330		314° 40'	-0.4	6.1	-		-6.1		1070.1		+230	-236	1,305,914	161,888
317	656		309° 20'	-	5.6	-		-5.6		1070.6		+412	-510	1,306,096	161,614
318	976		304° 37'	-	7.0	TH	+4.9	-2.1		1074.1		+549	-807	1,306,233	161,317

4-1,302,700 x - 162,830
 TP 4 way Inter.
 Horiz. y - 23
 Vert. x - 20

7-1,305,300 x - 162,480
 TP 7 - Inter.

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4-24-85		B. Cotcamp		K. Greenfield		6834		WC 1106		23		27			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		BOWDON West-7 1/2		G.A.		CARROLL								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									1,076.2						
319	1305		303° 50'	-0.4	9.2	TH	+6.5	-2.7		1073.5		+719	-1089	1,306,403	161,035
TP	1508		304° 14' 03"	-0.2	1.8	TH	+7.5	+5.7		1081.9	TP	+844	-1250	1,306,528	160,874
TP	1508				1.8	TH ₂₁₀	+7.5	+5.7			TP				
	1690	1088.8	158° 47' 28"	-0.2	12.7	92° 40'	+50.7	+63.4	1145.3		BS	+1014	-397		
	1090				12.6	267° 20'	+50.7	+63.3			BS				
320	953		159° 05'	--	10.1	92° 50'	-47.0	-57.1		1,088.2		-889	+343	1,306,653	160,820
321	624		159° 45'	--	6.4	92° 50'	-30.8	-37.2		1,108.1		-585	+218	1,306,957	160,695
322	294		-	-	8.7	91° 50'	-9.4	-18.1		1,127.2		-275	+103	1,307,267	160,580
X	0				5.1	-		-5.1		1,140.2	X	0	0	1,307,542	160,477
323	36		340° 45'	-0.2	5.0	89° 20'	+0.4	-4.6		1,140.7		+34	-12	1,307,576	160,465
324	366		-	--	4.3	89° 20'	+4.3	+10.0		1,145.3		+345	-122	1,307,887	160,355
325	696		340° 10'	-	10.0	89° 20'	+8.1	-1.9		1,143.4		+654	-238	1,308,196	160,239
326	1022		337° 16'	-	9.9	89° 20'	+11.9	+2.0		1,147.3		+941	-400	1,308,483	160,077
327	1334		332° 02' 16"	-	10.5	88° 50'	+27.2	+16.7		1162.0	TP	+1176	-629	1,308,718	159,848
327	1334				14.4	88° 40'	+31.0	+16.6			TP				
	660		131° 16' 49"	-0.2	11.8	92° -	+23.0	+34.8	1196.8		BS	+433	-497		
	660				9.9	92° 10'	+24.9	+34.8			BS				
328	330		131° 15'	-	5.9	92° 20'	-13.4	-19.3		1,177.5		-217	+249	1,308,934	159,600
329	0				5.1	-		-5.1		1,191.7	X	0	0	1,309,151	159,351
330	330		310° -	-	6.3	88° 50'	+6.7	+0.4		1,197.2		+211	-254	1,309,362	159,097

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 4-24-85	INSTRUMENT MAN B. Cotnam	ROD MAN K. Greenfield	PARTY NUMBER 6834	NOTES CHECKED BY WC	LINE NO. 23	PAGE 28
AREA GEORGIA	TORO MAP Bowdon West-7 1/2	STATE G.A.	COUNTY CARROLL	TWP	RANGE	PPM
				PARTY MANAGER W. Cassidy		

STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									1,196.8					
331	660		309° 10'	-0.2	9.8	88° 50'	+13.4	+3.6		1,200.4		+415	-513	1,309,566 158,838
332	987		306° 45'	--	5.6	88° 50'	+20.1	+14.5		1,211.3		+588	-793	1,309,739 158,558
333	1317		305° 55'	--	7.0	88° 30'	+34.5	+27.5		1,224.3		+769	-1069	1,309,920 158,282
334	1645	1644.3	307° 05' 57"	--	6.0	88° 20'	+47.8	+41.8		1,238.1	TP	+987	-1315	1,310,138 158,036
334	1645				5.9	271° 40'	+47.8	+41.9			TP			
	965		144° 11' 16"	-0.2	+11.6	90° 30'	+8.4	+20.0	1,258.6		BS	+781	-567	
	965				+11.5	269° 30'	+8.4	+19.9			BS			
335	639		147° 45'	--	7.7	91° -	-11.2	-18.9		1,239.7		-539	+343	1,310,380 157,812
336	310		149° 50'	--	9.9	91° -	-5.4	-15.3		1,243.3		-267	+157	1,310,652 157,626
IF	35		41° 23' 38"	--	6.4	92° -	-1.2	-7.6		1,251.0	IF	+26	+23	1,310,915 157,492
337	58		40° -	--	7.8	92° -	-2.0	-9.8		1,248.8		+45	+37	1,310,964 157,506
π	0				5.1	-		-5.1		1,253.5	π	0	0	1,310,979 157,469
338	296		287° 05'	-0.2	6.7	87° 10'	+14.6	+17.9		1,266.5		+86	-283	1,311,005 157,186
TP	529		285° 18' 22"	--	9.8	88° 20'	+15.4	+5.6		1,264.2	TP	+138	-511	1,311,057 156,958
TP	529				9.7	271° 40'	+15.4	+5.7			TP			
	249		111° 55' 20"	--	+1.6	88° -	-8.7	-7.1	1,257.1		BS	+92	-231	
	249				+0.9	88° 10'	-8.0	-7.1			BS			
339	154		113° 40'	--	5.8	86° 50'	+8.5	+2.7		1,259.8		-61	+141	1,311,088 156,868
π	0				5.1	-		-5.1		1,252.0	π	0	0	1,311,149 156,727
340	182		315° -	--	9.2	91° 50'	-5.8	-15.0		1,242.1		+128	-129	1,311,277 156,598

16" x 1,310,385 x 1,57,500
IF T-Station EL. 1251.0

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4-24-85		B. Cotcamp		K. Greenfield		6834		WC 9/26		23		29			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		Bowdon West-74		G.A.		CARROLL								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
									1,257.1						
341	511		311 50	-0.2	5.3	90 50	-7.4	-12.7		1,244.4		+339	-382	1,311,488	156,345
342	839		310 -	--	10.3	89 50	+2.4	-7.9		1,249.2		+537	-445	1,311,686	156,082
TP	1023		307 41 46	--	3.2	-		-3.2		1,253.9	TP	+623	-812	1,311,772	155,915
TP	1023				3.1	270 -		-3.1			TP				
	1122		103 25 02	-0.2+	7.2	91 20	+26.1	+33.3	1,287.2		BS	+256	-1092		
	1122				7.1	268 40	+26.1	+33.2			BS				
343	979		102 30	--	5.3	91 20	-22.8	-28.1		1,259.1		-269	+957	1,311,819	155,780
344	660		100 35	--	6.9	91 20	-15.4	-22.3		1,264.9		-119	+649	1,311,909	155,472
#	376		102 02 16	--	9.0	91 20	-8.7	-17.7		1,269.5	#	-77	+368	1,311,951	155,191
345	330		100 30	-	9.0	91 20	-7.7	-16.7		1,270.5		-59	+325	1,311,969	155,148
346	0				5.1	-		-5.1		1,282.1	π	0	0	1,312,028	154,823
347	329		276 10	-0.2	8.0	93 50	-21.9	-29.9		1,257.3		+34	-327	1,312,062	154,496
348	658		273 10	--	12.5	93 50	-43.9	-56.4		1,230.8		+34	-657	1,312,062	154,166
349	988		274 05	--	6.9	93 20	-57.4	-64.3		1,222.9		+67	-986	1,312,095	153,837
350	1315		276 15	--	11.0	91 50	-42.1	-53.1		1,234.1		+139	-1308	1,312,167	153,515
TP	1590		277 26 10	-	9.0	90 50	-23.1	-32.1		1,255.1	TP	+200	-1577	1,312,228	153,246
TP	1590				8.9	269 10	-23.1	-32.0			TP				
	721	720.3	115 10 56	-0.2+	8.3	92 30	+31.4	+39.7	1,294.8		BS	+304	-653		
	721				10.4	92 20	+29.3	+39.7			BS				
351	660		114 10	--	7.7	92 30	-28.8	-36.5		1,258.3		-268	+603	1,312,264	153,196

3-1,311,955 X-155,210
4-way Inter. 1269.0

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
4-24-85		B. Cotcamp		K. Greenfield		6834		4/C		104		23		30		
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
Georgia		Bowdon West-7 1/2		G.A.		CARROLL								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
									1,294.8							
352	330		114° 55'	-0.2	6.2	92° 30'	-14.4	-20.6		1,274.2		-138	+300	1,312,374	152,893	
353	0				5.1	-		-5.1		1,289.7	Λ	0	0	1,312,532	152,593	
354	330		286° 45'	--	5.1	89° 30'	+2.9	-2.2		1,292.6		+94	-316	1,312,626	152,277	
355	659		285° -	--	5.0	89° 30'	+5.8	+0.8		1,295.6		+168	-637	1,312,700	151,956	
fl	872		286° 03' 58"	--	7.8	89° 20'	+10.1	+2.3		1,297.1	fl	+238	-839	1,312,770	151,754	fl - 1512.785 x - 151.765 fl - inter EL. 1296.0
356	992		287° 35' 40"	-0.4	9.7	89° 20'	+11.5	+1.8		1,296.6	TP	+293	-948	1,312,825	151,645	ACROSS STA.
356	992				9.6	270° 40'	+11.5	+1.9			TP	+				
	1321		145° 40' 42"	-0.4	0.9	91° -	+23.1	+24.0	1320.6		BS	+1086	-752			
	1321				12.4	90° 30'	+11.5	+23.9			BS					
357	988		145° 35'	-	7.9	91° -	-17.2	-25.1		1,295.5		-811	+564	1,313,100	151,467	
358	659		143° 50'	-	10.3	91° -	-11.5	-21.8		1,298.8		-529	+393	1,313,382	151,286	
359	330		141° 50'	--	6.1	91° -	-5.8	-11.9		1,308.7		-258	+206	1,313,653	151,099	
360	0				5.1	-		-5.1		1,315.5	Λ	0	0	1,313,911	150,893	
361	330		321° 50'	-0.4	4.7	90° 30'	-2.9	-7.6		1,313.0		+258	-206	1,314,169	150,687	
362	660		322° 40'	--	7.3	90° 30'	-5.8	-13.1		1,307.5		+522	-404	1,314,433	150,489	
TP	814		323° 17' 28"	-	4.7	90° 30'	-7.1	-11.8		1,308.8	TP	+649	-491	1,314,560	150,402	
TP	814				7.0	90° 20'	-4.7	-11.7			TP					
	839		156° 44' 29"	-0.5	5.3	TH	-4.2	+1.1	1309.9		BS	+768	-338			
	839				6.0	89° 40'	-4.9	+1.1			BS					

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	4-24-85	INSTRUMENT MAN	B. Cotcamp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	W.C.	LINE NO.	23	PAGE	31
AREA	GEORGIA	TOPO MAP	Dowdow West-74'	STATE	G.A.	COUNTY	CARROLL	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	
									1,309.9							
363	660		154° 30'	-0.5	6.4	89° 20'	+7.7	+1.3		1,311.2		-593	+289	1,314,735	150,353	
364	330		- -	--	12.4	89° 20'	+3.8	-8.6		1,301.3		-297	+145	1,315,031	150,209	
365	0				5.1	-		-5.1		1,304.8	X	0	0	1,315,328	150,064	
366	330		347° 45'	--	8.1	88°	+11.5	+3.4		1,313.3		+322	-73	1,315,650	149,991	
367	659		349° 30'	--	5.1	88°	+23.0	+17.9		1,327.8		+647	-126	1,315,975	149,938	
368	989		350° -	--	5.0	88°	+34.5	+29.5		1,339.4		+972	-180	1,316,300	149,884	
TP	1244	1243.2	348° 10' 21"	--	3.2	88°	+43.4	+40.2		1,350.1	TP	+1215	-265	1,316,543	149,799	
TP	1244				3.1	272°	+43.4	+40.3			TP					
	1271	1268.4	139° 22' 24"	-0.5+	6.9	93° 40'	+81.1	+88.0	1438.1		BS	+955	-834			
	1271				6.8	266° 20'	+81.1	+87.9			BS					
369	1202		138° 40'	--	5.6	93° 50'	-80.2	-85.8		1,352.3		-896	+802	1,316,602	149,717	
370	876		138° 20'	--	8.8	94° 10'	-63.5	-72.3		1,365.8		-649	+588	1,316,849	149,553	
371	546		139° 20'	--	11.7	94° 10'	-39.6	-51.3		1,386.8		-411	+359	1,317,087	149,324	
372	215		142° -	--	9.7	94° 10'	-15.6	-25.3		1,412.8		-168	+134	1,317,330	149,099	
X	0				5.1	-		-5.1		1,433.0	X	0	0	1,317,498	148,965	
373	130		358° 46'	-0.5	6.6	89° 10'	+1.9	-4.7		1,433.4		+130	-4	1,317,628	148,961	
#1	250		350° 09' 08"	--	3.8	89° 10'	+3.6	-0.2		1,437.9	#1	+246	-45	1,317,744	148,920	4.317,650 x .748,910 #1 y = 20.421. E.L. 1437.0
374	458		351° 10'	--	10.2	-		-10.2		1,427.9		+452	-74	1,317,950	148,691	
TP	862		352° 53' 41"	--	14.3	TH	+4.3	-10.0		1428.1	TP	+854	-114	1,318,352	148,851	
TP	862			--	14.2	TH 20'	+4.3	-9.9			TP					

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	4-24-85	INSTRUMENT MAN	B. Cotcamp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	we KWA	LINE NO.	23	PAGE	33	
AREA	GEORGIA	TOPO MAP	Bowdon West - 7 1/2'	STATE	G.A./ALA.	COUNTY	CARROLL / Cusburne	TWP		RANGE		PPM	PARTY MANAGER	W. Cassidy

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									1403.7						
385	826		127° 05'	-0.2	12.0	90° 30'	-7.2	-19.2		1,384.5		-496	+661	1,319,458 145,864	GEORGIA West Zone 1
386	496		126° 40'	--	8.0	90° 30'	-4.3	-12.3		1,391.4		-295	+399	1,319,659 145,602	Last Sta. In G.A.
387	167		120° 25'	--	5.3	89° 30'	+1.5	-3.8		1,399.9		-84	+144	1,319,870 145,347	
Σ	0				5.1	-		-5.1		1,398.6	1	0	0	1,319,954 145,203	ALA. X 85 (1,136,545) x (652,539)
388	170		323° 15'	--	6.7	-		-6.7		1,397.0		+136	-102	1,136,681 652,437	STATE LINE
State Line	70		331° 05' 06"	--	6.6	89° 30'	+0.6	-6.0		1,397.7	1	(+61) (+61)	(-35) (-34)	1,320,015 145,769	STATE LINE
389	498		316° 20'	-1.2	6.5	-		-6.5		1,397.2	1	(-230) (+234)	(+229) (-225)	1,136,775 652,310	STATE LINE
390	828		316° 10'	--	6.4	-		-6.4		1,397.3		+352	-352	1,136,897 652,187	ALABAMA EAST ZONE 5-1,136,775 X-652,310
391	1156		316° 25'	--	6.2	88° 30'	+21.7	+15.5		1,419.2		+588	-583	1,137,133 651,954	Bowdon West - 7 1/2'
391	1156		317° 05' 52"	--	5.2	87° 50'	+43.7	+38.5		1442.2	TP	+830	-804	1,137,375 651,736	across Sta. TALLAPOOSA South 7 1/2'
					5.1	272° 10'	+43.7	+38.6			TP		+		
	1790		144° 36' 13"	-1.2	6.8	87° 20'	-83.3	-76.5	1365.7		BS	+1436	-1066		
	1790				6.7	272° 40'	-83.3	-76.6			BS		+		
392	1458		143° 52'	--	5.1	87° 20'	+67.8	+62.7		1,428.4		-1159	+884	1,137,652 651,555	
393	1128		-	--	9.8	87° 20'	+52.4	+42.6		1,408.3		-897	+684	1,137,914 651,355	
394	798		-	--	7.7	87° 20'	+37.1	+29.4		1,395.1		-635	+484	1,138,176 651,155	
395	468		-	--	8.7	87° 20'	+21.7	+13.0		1,378.7		-372	+284	1,138,439 650,955	
396	140		139° 55'	--	9.0	87° 20'	+6.5	-2.5		1,363.2		-105	+92	1,138,706 650,763	
Σ	0				5.1	-		-5.1		1,360.6	1	0	0	1,138,811 650,671	
397	194		338° 10'	--	3.0	92° -	-6.9	-9.8		1,355.9		+179	-76	1,138,990 650,595	

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
4-24-85		B. Cotcamp		K. Greenfield		6834		wc RWG		23	34						
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER						
GEORGIA/ALABAMA		TALLAPOOSA South 72		ALABAMA		CLEBURNE					W. Cassidy						
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS	
												LAT.	DEP.	Y	X		
									1,365.7								
398	524		335° 10'	-1.2	8.7	92° 0'	-18.3	-27.0		1,338.7		+471	-230	1,139,282	650,441		
399	854		-	--	9.7	92° 20'	-34.7	-44.4		1,321.3		+767	-375	1,139,578	650,296		
H-	1151		334° 33' 38"	--	8.0	92° 20'	-46.9	-54.9		1,310.9	H	+1028	-516	1,139,839	650,155	H ² 1,139,830 x -650,185 pipe line EL. 1310.0	
400	1184		334° 55'	--	8.0	92° 20'	-48.2	-56.2		1,309.5		+1061	-524	1,139,872	650,147		
401	1512		333° 57' 32"	--	4.9	92° 20'	-61.6	-66.5		1,299.2	TP	+1344	-691	1,140,155	649,981		
401	1512				4.8	227° 40'	-61.6	-66.4			TP		+				
	1649		141° 29' 32"	12	+4.8	88° 50'	-33.6	-28.8	1,270.4		BS	+1268	-1053				
	1649				+4.7	271° 10'	-33.6	-28.9			BS		+				
402	1320		140° 42'	--	7.2	89° 0'	+23.0	+15.8		1,286.2		-1064	+857	1,140,419	649,786		
403	990			--	7.8	89° 30'	+8.6	+0.8		1,271.2		-753	+643	1,140,670	649,672		
404	660			--	6.4	-		-6.4		1,264.0		-502	+429	1,140,921	649,358		
405	330			--	10.3	-		-10.3		1,260.1		-251	+214	1,141,172	649,143		
406	0				5.1	-		-5.1		1,265.3	T	0	0	1,141,423	648,929		
407	330		320° 50'	-1.2	8.0	-		-8.0		1,262.4		+251	-214	1,141,674	648,715		
H	92		147° 28'	--	6.0	-		-6.0		1,264.4	H	-77	+51	1,141,346	648,980	H ² 1,141,370 x -648,970 5 - Inter. EL. 1264.0	
408	660		320° 50'	--	12.1	-		-12.1		1,258.3		+503	-427	1,141,926	648,502		
409	990		321° 35'	--	8.1	BM	-5.0	-13.1		1,257.3	H	+763	-631	1,142,186	648,298	H ² 1,142,200 x -648,300	
410	1218		309° 30'	--	7.1	89° 20'	+14.2	+7.1		1,277.5		+755	-956	1,142,178	647,973		
TP	1397		303° 28' 09"	✓	5.4	88° 50'	+28.4	+23.0		1,293.4	TP	+746	-1181	1,142,169	647,749		
TP	1397				5.3	271° 10'	+28.4	+23.1			TP		+				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4-24-85		B. Cotcamp		K. Greenfield		6834		P.L. WC		23		35			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ALABAMA		Tallapoosa - 7 1/2		ALA.		CLEBURNE								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
										1,293.4					
	1074		95° 23' 03"	-1.2	5.4	87° 50'	-40.6	-35.2	1258.2		BS	+78	-1070		
	1074				5.3	87° 50'	-40.6	-35.3			BS				
411	971		95° 05'	--	7.0	87° 50'	+36.7	+29.7		1,287.9		-66	+969	1,142,181 647,649	
412	643		98° -	--	6.5	88° 50'	+13.1	+6.6		1,264.8		-76	+638	1,142,171 647,318	
413	319		92° 20'	--	12.7	88° 50'	+6.5	-6.2		1,252.0		-6	+319	1,142,241 646,999	
414	0				5.1	-		-5.1		1,253.1	TP	0	0	1,142,247 646,680	
415	329		263° 45'	-1.2	7.1	-		-7.1		1,251.1		-43	-326	1,142,204 646,354	
416	657		268° 40'	--	10.3	84	-3.3	-13.6		1,244.6		-29	-656	1,142,218 646,024	
TP	814		268° 50' 35"	--	6.5	90° 30'	-7.1	-13.6		1,244.6	TP	-33	-813	1,142,214 645,868	
TP	814				4.1	90° 40'	-9.5	-13.6			TP		+1		
	579		99° 40' 30"	-1.2	7.2	91° 30'	+15.2	+22.4	1267.0		BS	+85	-572		
	579				7.1	268° 30'	+15.2	+22.3			BS		+1		
417	406		99° 55'	--	9.3	91° 30'	-10.6	-19.9		1,247.1		-62	+401	1,142,237 645,698	
418	77		106° 30'	--	8.9	91° 30'	-2.0	-10.9		1,256.1		-20	+74	1,142,279 645,371	
TP	0				5.1	-		-5.1		1,261.9	TP	0	0	1,142,299 645,297	
419	253		297° -	-1.2	10.7	92° 20'	-10.3	-21.0		1,246.0		+110	-228	1,142,409 645,069	
420	583		296° -	--	10.8	93° -	-30.5	-41.3		1,225.7		+245	-529	1,142,544 644,768	
421	913		295° 05'	--	7.7	92° 30'	-39.9	-47.5		1,219.5		+370	-835	1,142,669 644,462	
422	1241		294° 15'	--	12.3	91° 10'	-25.3	-37.6		1,229.4		+486	-1142	1,142,785 644,155	

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
4-24-85		B. Cotcamp		K. Greenfield		6834		DWC WJC MWG		23	36					
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER						
ALABAMA		TALLAPOSA South-7 1/2		ALA.	CLEBURNE					W. Cass, Jr.						
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH +	EAST +	COORDINATES		REMARKS
												SOUTH -	WEST -	Y	X	
LAT.	DEP.															
									1,267.0							
423	1571		294° 12' 03"	-1.2	6.7	91° -	-27.4	-34.1		1232.9	TP	+614	-1446	1,142,913	643,852	
423	1571				6.6	269° -	-27.4	34.0			TP		+1			
	827		118° 53' 12"	-- +	5.0	86° 30'	-50.4	-45.4	1197.5		BS	+384	-731			
	827			+4.9		273° 30'	-50.4	-45.5			BS		+1			
424	499		117° 15'	-1.2	6.5	88° 10'	+16.0	+9.5		1,197.0		-219	+448	1,143,078	643,570	
425	169		120° 10'	--	7.3	90° 10'	-0.5	-7.8		1,179.7		-82	+148	1,143,215	643,270	
X	0				5.1	-		-5.1		1,182.4	X	0	0	1,143,297	643,122	
426	161		324° 25'	-1.2	7.0	92° -	-5.6	-12.6		1,174.9		+129	-96	1,143,426	643,026	
427	491			--	6.3	92° -	-17.1	-23.4		1,164.1		+393	-294	1,143,670	642,829	
428	818		327° 35'	--	8.0	91° 20'	-19.0	-27.0		1,160.5		+681	-453	1,143,978	642,669	
429	1146		329° 30'	--	9.1	90° 20'	-6.7	-15.8		1,171.7		+975	-602	1,144,272	642,520	
430	1472		328° 15'	--	6.3	-		-6.3		1,181.2		+1235	-801	1,144,532	642,321	
TP	1608		328° 30' 52"	-	11.0	-		-11.0		1,176.5	TP	+1353	-868	1,144,650	642,255	
TP	1608				10.9	270° -		-10.9			TP		+1			
	515		165° 15' 10"	-1.2 +	4.5	86° -	-35.9	-31.4	1145.1		BS	+494	-141			
	515			+3.0		86° 10'	-34.4	-31.4			BS		+1			
431	325		162° 20'	--	5.0	86° 10'	+21.7	+16.7		1,161.9		-308	+105	1,144,836	642,220	
432	0		1	--	5.1	-		-5.1		1,140.0	X	0	0	1,145,144	642,115	
433	330		339° 15'	--	8.7	91° 30'	-8.6	-17.3		1,127.8		+307	-123	1,145,451	641,992	
434	660		340° 05'	--	6.0	91° 30'	-17.3	-23.3		1,121.8		+616	-238	1,145,760	641,877	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
4-24-85		B. Cotnam		K. Greenfield		6834		WC KLD		23	37					
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER					
ALABAMA		Tallapoosa South-7 1/2		ALA.		CLEBURNE					W. Cassidy					
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS
												LAT.	DEP.	Y	X	
TP	828		334° 15' 21"	-1.2	8.9	91° 30'	-21.7	-30.6	1145.1	1114.5	TP	+738	-375	1,145,882	641,741	
TP	828				11.3	91° 20'	-19.3	-30.6			TP		+			
	466		99° 42' 34"	-	+14.2	85°	-40.6	-26.4	1088.1		BS	+69	-459			
	466				+14.1	275-	-40.6	-26.5			BS		+			
435	330		94° 10'	-	9.9	85°	+28.7	+18.9		1106.9		-17	+330	1,145,934	641,613	
436	0				5.1	-		-5.1		1083.0	K	0	0	1,145,951	641,283	
TP	129		294° 48' 11"	-1.2	4.2	97° 30'	-16.8	-21.0		1067.1	TP	+51	-117	1,146,002	641,167	-1,146,000 X-641,185 TP + J. J. K.
TP	129				4.1	262° 30'	-16.8	-20.9			TP		+			
	1046		209° 50' 22"	-	+7.8	91°	+18.3	+26.1	1093.2		BS	+918	+501			NOTE * 1046 OFFSET
	1046				+4.7	91° 10'	+21.3	+26.0			BS					north between 436-437
K	0				5.1	-		-5.1		1088.1	K	0	0	1,146,920	641,668	
#1	31		5° 32' 12"	-1.2	4.5	-		-4.5		1049.7	TP	+31	+2	1,146,951	641,870	-1,146,935 X-641,655 TP + Int. EL. 1084.0
437	249		310° 13' 45"	-	5.2	88° 20'	+7.2	+2.0		1045.2	TP	+157	-193	1,147,077	641,475	
437	249				4.5	88° 30'	+6.5	+2.0			TP					
	2375		130° 17' 38"	-0.9	+2.8	88° 54'	-45.6	-42.8			BS	+1507	-1835			
	2375				+2.7	271° 06'	-45.6	-42.9	1052.3		BS					
438	2045		130° 18'	-	6.9	88° 50'	+41.6	-24.9		1087.0		-1298	+1580	1,147,286	641,220	
439	1715		-	-	12.4	88° 50'	+34.9	+22.5		1074.8		-1089	+1325	1,147,495	640,965	
440	1385		-	-	7.2	89°	+24.2	+17.0		1069.3		-879	+1070	1,147,705	640,710	
441	1055		-	-	6.5	89°	+18.4	+11.9		1064.2		-670	+815	1,147,914	640,455	

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4-25-85		B. Cotnam		K. Greenfield		6834		WC KWC		23		38			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ALABAMA		Tallahassee South-7 1/2		ALA.		CLEBURNE								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									1052.3						
442	725		130° 15'	-0.9	5.4	89° -	+12.7	+7.3		1059.6		-460	+561	1,148,124 640,201	
443	395		- -	--	5.4	88° 50'	+8.0	+2.6		1054.9		-250	+305	1,148,334 639,945	
444	65		132° 45'	--	5.3	87° 30'	+2.8	-2.5		1049.8		-43	+48	1,148,541 639,688	
TP	0				5.1	-		-5.1		1047.2	TP	0	0	1,148,584 639,640 TALLAPOOSA South-7 1/2	
445	267		293° 40'	-0.9	8.1	89° 30'	+2.3	-5.8		1046.5		+103	-246	1,148,687 639,394 Fruit hurst -7 1/2	
446	596		291° -	--	6.9	89° -	+10.4	+3.5		1055.8		+205	-560	1,148,789 639,080	
447	926		290° 40'	--	6.8	88° 40'	+21.5	+14.7		1067.0		+313	-871	1,148,897 638,769	
TP	1110		291° 09' 38"	--	11.4	88° 40'	+25.8	+14.4	}	1066.7	TP	+384	-1041	1,148,968 638,599	
TP	1110				11.3	271° 20'	+25.8	+14.5			TP				
	481		141° 30' 56"	-0.9	4.3	87° 50'	-18.2	-13.9	}	1052.8	BS	+372	-305		
	481				+2.9	88° -	-16.8	-13.9			BS				
448	330		143° -	--	5.0	88° -	+11.5	+6.5		1059.3		-260	+203	1,149,080 638,497	
449	0				5.1	-		-5.1		1047.7	TP	0	0	1,149,340 638,294	
450	330		329° 20'	-0.9	8.8	88° 40'	+7.7	-1.1		1051.7		+281	-173	1,149,621 638,121	
451	660		- -	--	7.6	88° 40'	+15.4	+7.8		1060.6		+562	-346	1,149,902 637,948	
41	881		328° 30' 54"	--	8.6	88° 40'	+20.5	+11.9		1064.7	41	+744	-472	1,150,084 637,822 3-1,150,080 x -637,850 4 - INTER. E.L. 1067.0	
452	990		329° 20'	--	4.7	89° -	+17.3	+12.6		1065.4		+844	-518	1,150,184 637,776	
453	1319		328° 25'	--	9.3	89° -	+23.0	+13.7		1066.5		+1113	-708	1,150,453 637,586	
TP	1541		326° 49' 39"	--	9.3	89° 10'	+22.4	+13.1	}	1065.8	TP	+1276	-863	1,150,616 637,431	
TP	1541				9.4	270° 50'	+22.4	+13.0			TP				

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4-25-85		B. Cotcamp		K. Greenfield		6834		WC JDC		23		39			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ALABAMA		Fruitcrest - 7 1/2'		ALABAMA		CLEBURNE								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
										1065.8					
	1747	1746.4	127° 32' 04"	-0.9	10.0	88° 30'	-45.7	-35.7			BS	+1042	-1401		
	1747				+9.9	271° 30'	-45.7	-35.8	1030.0		BS				
454	1644		127° 25'	--	9.4	88° 30'	+43.0	+33.6		1063.6		-978	+1321	1,150,680	637,351
455	1314		126° 25'	--	8.7	88° 30'	+34.4	+25.7		1055.7		-763	+1070	1,150,895	637,100
#	1202		126° 39' 32"	--	8.1	88° 30'	+31.5	+23.4		1053.4	#	-702	+975	1,150,956	637,005
456	985		125° 10'	--	7.2	88° 30'	+25.8	+18.6		1048.6		-555	+814	1,151,103	636,844
457	657		122° 55'	--	7.3	88° 50'	+13.4	+6.1		1036.1		-348	+557	1,151,310	636,587
458	330		117° 40'	-	8.3	88° 50'	+6.9	-1.6		1028.4		-149	+295	1,151,509	636,325
459	0				5.1	-		-5.1		1024.9	T	0	0	1,151,658	636,030
460	330		288° 50'	-0.9	5.9	89° 50'	+1.0	-4.9		1025.1		+102	-314	1,151,760	635,716
IF	472		287° 19' 52"	--	4.5	89° 50'	+1.4	-3.1		1026.9	IF	+134	-453	1,151,792	635,577
461	660		288° 25'	--	7.8	-		-7.8		1022.2		+199	-629	1,151,857	635,401
462	990		-	--	10.9	-		-10.9		1019.1		+298	-944	1,151,956	635,086
463	1304		286° 55'	-	12.1	-		-12.1		1017.9		+360	-1253	1,152,018	634,777
TP	1211		285° 56' 46"	-	11.2	-		-11.2		1018.8	TP	+314	-1169	1,151,972	634,861
TP	1211				11.1	270-		-11.1			TP				
	1060		80° 11' 35"	-0.9	1.6	TH	-5.3	-3.7			BS	-197	-1042		
	1060				+1.5	TH 270-	-5.3	-3.8	1015.0		BS				
464	667		80° 25'	--	9.8	89° 10'	+9.7	-0.1		1014.9		+121	+656	1,151,896	634,475
465	338		77° 35'	-	5.0	89° 10'	+4.9	-0.1		1014.9		+78	+329	1,151,853	634,148

y = 1,151,000 x = 637,010
I-20 + Line Inter.

y = 1,151,810 x = 635,600
IF T-Inter.

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
4-25-85		B. Cotamp		K. Greenfield		6834		W.C. MUG		23		40				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY-MANAGER		
ALABAMA		Furnhurst-7 1/2'		ALA.		CLEBURNE								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
Bm	54		224° 09' 45"	-0.9	5.5	92° 10'	-2.0	-7.5	1015.0		Bm	-39	-37	1,151,736	635,792	Bm U.S.G.S. EL. 1007.0
TP	0				5.1	-		-5.1		1009.9	TP	0	0	1,151,775	633,819	
466	28		8° 10'	--	5.9	-		-5.9		1009.1		+28	+4	1,151,803	635,823	
467	336		291° 50'	--	5.4	89° 30'	+2.9	-2.5		1012.5		+120	-314	1,151,895	635,505	
468	666		291° 10'	--	12.9	-		-12.9		1002.1		+231	-625	1,152,006	633,194	
TP	884		292° 26' 09"	--	14.1	-		-14.1		1000.9	TP	+325	-822	1,152,100	632,997	
TP	884				14.0	270° -		-14.0			TP					
	618		131° 44' 26"	-0.9	+15.1	88° 40'	-14.4	+0.7	1001.6		BS	+404	-467			
	618				+13.3	88° 50'	-12.6	+0.7			BS					
469	505		132° -	--	8.1	88° 50'	+10.3	+2.2		1003.8		-332	+381	1,152,172	632,911	
470	175		-	--	5.0	88° 30'	+14.6	-0.4		1001.2		-115	+132	1,152,389	632,662	
TP	0				5.1	-		-5.1		996.5	TP	0	0	1,152,504	632,530	
471	157		310° 35'	-0.9	7.8	93° -	-8.2	-16.0		985.6		+100	-121	1,152,604	632,409	
472	485		307° 05'	--	7.2	93° -	-25.3	-32.5		969.1		+286	-391	1,152,790	632,139	
473	814	813.2	303° 38' 56"	--	5.4	92° 30'	-35.5	-40.9		960.7	TP	+440	-684	1,152,944	631,846	
473	814				7.8	92° 20'	-33.1	-40.9			TP					
	1580		110° 45' 15"	-0.9	+14.0	90° 34'	+15.6	+29.6			BS	+537	-1486			
	1580				+13.9	269° 26'	+15.6	+29.5	990.2		BS					
474	1251		109° 30'	--	8.3	90° 20'	-7.3	-15.6		974.6		-399	+1186	1,153,082	631,546	
475	921		109° -	--	11.0	90° 20'	-5.4	-16.4		973.8		-286	+875	1,153,195	631,235	

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
4-25-85		B. Cotamp		K. Greenfield		6834		we AUG		23		41				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
ALABAMA		Fruiturst-7 1/2'		ALA.		CLEBURNE								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
									990.2							
476	750		109° 33' 10"	-0.9	12.1	90° 40'	-8.7	-20.9		969.4	±	-240	+711	1,153,241	631,071	± 1,153,225 x - 631,100 T-Inter
477	591		108° 45'	--	13.3	90° 40'	-6.9	-20.2		970.0		-181	+563	1,153,300	630,923	
	261		-	--	5.0	90° 40'	-3.0	-8.0		982.2		-80	+248	1,153,401	630,609	
	0				5.1	-		-5.1		985.1	±	0	0	1,153,481	630,360	
478	70		286° 40'	-0.9	6.0	90° 20'	-0.4	-6.4		983.8		+19	-67	1,153,500	630,293	
479	400		286° 50'	--	7.7	93° 10'	-22.1	-29.8		960.4		+110	-385	1,153,591	629,975	
TP	597		280° 22' 06"	--	10.6	93° 10'	-32.9	-43.5			TP	+98	-588	1,153,579	629,772	
TP	597				8.9	93° 20'	-34.7	-43.6		946.6	TP					
	1539		65° 09' 52"	-0.9	10.7	91° -	+26.9	+37.6			BS	-668	-1386			
	1539				10.6	269° -	+26.9	+37.5	984.1		BS					
480	1415		64° 05'	--	5.9	91° 10'	-28.8	-34.7		949.4		+638	+1263	1,153,549	629,649	
481	1087		63° 05'	--	7.6	91° 30'	-28.4	-36.0		948.1		+507	+961	1,153,418	629,347	
482	757		-	--	19.7	92° -	-26.4	-46.1		938.0		+353	+670	1,153,264	629,056	
483	428		64° 35'	--	12.3	92° -	-14.9	-27.2		956.9		+190	+384	1,153,101	628,770	
484	100		54° 10'	-	4.8	-		-4.8		979.3		+60	+80	1,152,971	628,466	
	0				5.1	-		-5.1		979.0	±	0	0	1,152,911	628,386	
485	240		267° 40'	-0.9	5.6	93° 30'	-14.6	-20.2		963.9		-14	-246	1,152,897	628,146	
486	570		266° 35'	--	8.4	94° 10'	-41.3	-49.7		934.4		-43	-568	1,152,868	627,800	
487	899		266° 14' 06"	--	10.6	94° 20'	-67.9	-78.5			TP	-73	-893	1,152,838	627,493	ACROSS STA.
487	899				13.3	94° 10'	-65.3	-78.6		905.5	TP					

TRVY NOTES-HIGH RESOLUTION DATA

Geosource Inc.

0-445

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4-25-85		B. Cotcamp		K. Greenfield		6834		WC		23		42			
STATE		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ALABAMA		FRUITHWEST - 7 1/2'		ALA.		CLEBURNE								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
									905.5						
	1377		95° 47' 48"	-0.9 +	3.8	91° 06'	+26.4	+30.2			BS	+118	-1372		
	1377				+3.7	268° 54'	+26.4	+30.1	935.6		BS				
88	1046		96° 30'	--	10.3	91° 24'	-25.5	-35.8		899.8		-102	+1041	1,152,854 627,162	
	1092		96° 46' 12"	--	10.1	91° 20'	-25.4	-35.5		900.1	X	-112	+1086	1,152,844 627,207	
89	718		98° 45'	--	9.0	92° 20'	-29.2	-35.2		897.4		-98	+711	1,152,858 626,832	
90	394		105° 20'	--	8.7	94° -	-27.1	-36.1		899.5		-98	+382	1,152,858 626,503	
91	71		88° 40'	--	7.0	94° -	-4.9	-11.9		923.7		+3	+71	1,152,959 626,192	
	0				5.1	-		-5.1		930.5	X	0	0	1,152,956 626,121	
12	284		326° 25'	-0.9	5.4	85° -	+24.7	+19.3		954.9		+234	-161	1,153,190 625,960	
13	613	611.4	327° 57' 18"	--	14.5	85° 54'	+43.8	+29.3		964.9	TP	+513	-333	1,153,470 625,788	
73	613				14.4	214° 06'	+43.8	+29.4			TP	+1			
	930		141° 45' 34"	-- +	13.1	91° -	+16.2	+29.3			BS	+721	-587		
	930				+13.0	269° -	+16.2	+29.2	994.1		BS	+1			
74	607		136° 55'	-0.9	9.8	92° 10'	-22.9	-32.7		961.4		-437	+422	1,153,755 625,623	
95	280		131° 10'	--	8.0	92° 10'	-10.6	-18.6		975.5		-181	+214	1,154,011 625,415	
K	0				5.1	-		-5.1		989.0	X	0	0	1,154,192 625,201	
96	51		301° 18'	--	5.0	88° 20'	+1.5	-3.5		990.6		+26	-44	1,154,218 625,157	
97	380		-	--	12.1	89° 30'	+3.3	-6.8		985.3		+192	-328	1,154,384 624,973	
98	710		-	--	8.6	89° 30'	+6.2	-2.0		991.7		+359	-612	1,154,551 624,689	
99	1040		-	--	10.1	89° 30'	+9.1	-1.0		993.1		+526	-897	1,154,718 624,304	

y=1152825 x=627225
X checked at 897.0

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4-25-85		B. Cotcamp		K. Greenfield		6834		we		23		43			
AREA		TOPO. MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ALABAMA		Flu + Hurst - 7k'		ALA.		CLEBURNE								W. Cass. dy	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									994.1						
500	1370		301° 12'	-0.9	10.6	89° 30'	+12.0	+1.4		995.5		+691	-1183	1,151,883	624,018
501	1700		300° 42'	--	12.0	89° 48'	+5.9	-6.1		988.0		+845	-1475	1,155,037	623,726
502	2028		300° 20' 22"	--	13.0	89° 44'	+9.4	-3.6		990.5	TP	+997	-1766	1,155,190	623,435
502	2028				12.9	270° 16'	+9.4	-3.5			TP	+			
	922	920.7	103° 35' 50"	-0.9+	7.3	93° -	+48.3	+55.6	1046.1		BS	+202	-898		
	922			+	7.2	267° -	+48.3	+55.5			BS	+			
503	593		101° 35'	--	11.9	93° -	-31.0	-42.9		1003.2		-110	+583	1,155,283	623,120
504	263		103° 35'	--	7.0	93° -	-13.7	-20.7		1025.4		-58	+257	1,155,335	622,794
TP	0				5.1	-		-5.1		1041.0	TP	0	0	1,155,393	622,537
Bm	86°		355° 26' 45"	-0.9	4.6	88° -	+3.0	-1.6		1044.5	Bm	+86	-8	1,155,479	622,529
505	65		295° 45'	--	5.8	88° -	+2.3	-3.5		1042.6		+27	-59	1,155,420	622,478
506	395		299° 55' ^{Est.}	--	7.7	88° -	+13.8	+6.1		1052.2		+192	-345	1,155,585	622,192
507	725		300° -	--	10.7	88° 20'	+21.1	+10.4		1056.5		+353	-633	1,155,746	621,904
TP	957		296° 38' 04"	--	3.0	88° 20'	+27.8	+24.8		1070.9	TP	+415.	-862	1,155,809	621,675
TP	957				2.9	271° 40'	+27.8	+24.9			TP	+			
	1320		81° 24' 54"	-0.9+	13.0	88° 54'	-25.3	-12.3	1058.6		BS	-217	-1302		
	1320			+	12.9	271° 06'	-25.3	-12.4			BS	+			
508	1223		81° 25'	-	11.9	88° 40'	+28.4	+16.5		1075.1		+202	+1206	1,155,795	621,579
509	894		80° 30'	--	6.1	88° 40'	+20.5	+14.7		1073.3		+161	+879	1,155,754	621,252
510	564		-	--	8.8	88° 40'	+13.1	+4.3		1062.9		+102	+555	1,155,695	620,928

U.S.G.S. MEA 1964 EA.

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4-25-85		B. Cotcamp		K. Greenfield		6834		WC KWB		23		44			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GEORGIA		Fleuthurst - 7 1/2'		ALA.		CLEBURNE								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
									1058.6						
511	234		80° 25'	-0.9	12.2	88° 40'	+5.4	-6.8		1051.8		+43	+230	1,155,636	620,603
X	0				5.1	-		-5.1		1053.5	X	0	0	1,155,593	620,373
512	104		288° 35'	--	6.4	89° 30'	+0.9	-5.5		1053.1		+32	-99	1,155,625	620,274
513	431		277° 45'	--	11.0	89° 30'	+3.8	-7.2		1051.4		+51	-428	1,155,644	619,945
514	761		277° 05'	--	11.7	89° 30'	+6.6	-5.1		1053.5		+82	-757	1,155,675	619,616
TP	1003		277° 01' 34"	--	8.0	89° 30'	+8.8	+0.8		1059.4	TP	+107	-997	1,155,701	619,376
TP	1003				7.9	270° 30'	+8.8	+0.9			TP	+			
	1113	1111.5	119° 00' 06"	-0.7	14.3	93°	+58.2	+72.5	1131.9		BS	+527	-979		
	1113				14.1	267°	+58.2	+72.3			BS	+			
515	1020		118° 50'	--	8.7	93° 40'	-65.1	-73.8		1058.1		-481	+899	1,155,748	619,294
516	690		119°	--	11.0	94°	-48.0	-59.0		1072.9		-327	+608	1,155,962	619,005
517	362		116° 40'	--	9.4	93°	-15.9	-28.3		1103.6		-159	+325	1,156,070	618,722
IF	60		100° 54'	--	5.2	91°	-1.0	-6.2		1125.7	IF	-11	+59	1,156,218	618,454
518	45		74° 20'	--	5.0	91°	-0.8	-5.8		1126.1		+13	+43	1,156,242	618,440
X	0				5.1	-		-5.1		1126.8	X	0	0	1,156,229	618,397
519	300		306° 45'	-0.7	7.1	-		-7.1		1124.8		+177	-243	1,156,406	618,154
520	630		304° 10'	--	9.4	91°	-11.0	-20.4		1111.5		+347	-526	1,156,576	617,871
TP	724		302° 49' 51"	--	15.0	91°	-12.6	-27.6		1104.3	TP	+385	-613	1,156,615	617,784
TP	724				15.0	269°	-12.6	-27.6			TP	+			

IF - 1,156,230 x - 618,970
IF - 20' to 10' - 61,125.0

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
4-25-85		B. Cotcamp		K. Greenfield		6834		WC		23	45					
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER						
ALABAMA		Furthurst-7 1/2'		ALA.	CLEBURN					W. Cassidy						
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH +	EAST +	COORDINATES		REMARKS
												SOUTH -	WEST -	Y	X	
												LAT.	DEP.			
										1104.3						
	446	445 1	142° 24' 16"	-0.7+	8.3	86° 20'	-28.5	-20.2	1084.1		BS	+349	-276			
	446			+	8.2	273° 46'	-28.5	-20.3		BS		+1				
521	212		145° 40'	--	6.2	88° -	-17.4	+1.2		1085.3		-174	+122	1,156,791	617,630	
	π	0			5.1	-		-5.1		1079.0	π	0	0	1,156,965	617,508	
522	132		3° 58'	--	8.6	91° -	-2.3	-10.9		1073.2		+132	+8	1,157,097	617,516	
523	461		2° 40'	--	6.4	91° -	-8.0	-14.4		1069.7		+461	+16	1,157,426	517,524	
524	791		4° -	--	9.0	89° 20'	+9.2	+0.2		1084.3		+790	+46	1,157,755	517,554	
525	1119		3° 30'	--	6.4	88° 40'	+26.0	+19.6		1103.7		+1118	+55	1,158,083	517,563	
TP	1242		2° 29' 27"	~	6.2	88° 20'	+36.1	+29.9		1114.0	TP	+1241	+39	1,158,207	617,547	
TP	1242			°	6.1	271° 40'	+36.1	+30.0			TP	+1				
	474	473.4	148° 46' 00"	-0.7+	9.0	93° -	+24.8	+33.8	1147.8		BS	+402	-250			
	474			+	8.9	267° -	+24.8	+33.7		BS		+1				
526	274		141° 15'	--	7.0	92° 10'	-10.4	-17.4		1130.4		-212	+174	1,158,398	617,471	
	π	0			5.1	-		-5.1		1142.7	π	0	0	1,158,610	617,297	
527	57		339° 50'	--	5.1	89° 10'	+0.8	-4.3		1143.5		+53	-20	1,158,663	617,277	
528	380		333° 15'	--	5.8	89° 10'	+5.5	-0.3		1147.5		+337	-175	1,158,947	617,122	
TP	428		332° 34' 10"	-	3.6	89° 10'	+6.2	+2.6		1150.4	TP	+377	-202	1,158,988	617,095	
TP	428			-	4.9	89° -	+9.5	+2.6			TP	+1				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	4-25-85	INSTRUMENT MAN	B. Cotcamp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	we	LINE NO.	23	PAGE	44	
AREA	ALABAMA	TOPO MAP	Fruit Huest - 7 1/2'	STATE	ALABAMA	COUNTY	CLEBURNE	TWP		RANGE		PPM	PARTY MANAGER	W. Cass, Jr

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS
												LAT.	DEP.	Y	X			
										1150.4								
	740		186° 52' 40"	-0.7	12.2	91° 20'	+17.2	+29.4			BS	+736	+80					
	740				12.1	88° 40'	+17.2	+29.3	1179.7		BS							
529	446		185° 30'	--	6.6	91° 20'	-10.4	-17.0		1162.7		-444	-37	1,159,281	617,138			
530	119		181° 50'	-	4.6	91° 20'	-2.8	-7.4		1172.3		-119	-2	1,159,606	617,173			
π	0				5.1	-		-5.1		1174.6	π	0	0	1,159,725	617,175			
531	219		328° 25'	-0.7	8.8	91° 20'	-5.1	-13.9		1165.8		+185	-117	1,159,910	617,058			
TP	493		318° 12' 22"	-	3.1	90° 20'	-2.9	-6.0		1173.7	TP	+364	-333	1,160,089	616,842			
TP	493				4.6	90° 10'	-1.4	-6.0			TP							
	794	792.9	103° 21' 52"	--	11.0	93° -	+41.6	+52.6	1226.3		BS	+174	-774					
	794				8.7	93° 10'	+43.9	+52.6			BS							
532	747		103° 05'	--	8.5	93° 10'	-41.2	-49.7		1176.6		-160	+730	1,160,103	616,798			
533	417		102° 05'	-	9.7	92° 10'	-15.8	-25.5		1200.8		-82	+409	1,160,181	616,477			
534	91		112° 10'	-	5.5	92° 10'	-3.4	-8.9		1217.4		-33	+85	1,160,230	616,153			
π	0				5.1	-		-5.1		1221.2	π	0	0	1,160,263	616,068			
Bm	158		276° 23' 20"	-0.7	5.8	74	+0.8	-5.0		1221.3	Bm	+16	-157	1,160,279	615,911		4-1160,285 x-625,900 U.S.G.S. 24 MEA 1964 EL1220	
535	247		23° 25'	--	5.1	87° 30'	+10.8	+5.7		1232.0		+228	+95	1,160,491	616,163			
536	572		19° 07' 58"	--	12.2	88° 40'	+13.3	+1.1		1227.4	TP	+543	+181	1,160,806	616,249			
536	572				12.1	271° 20'	+13.3	+1.2			TP							
	659		180° 18' 08"	--	5.2	88° 30'	-17.3	-12.1	1215.3		BS	+659	-5					
	659				3.3	88° 40'	-15.3	-12.0			BS							

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
4-25-85		B. Cotcamp		K. Greenfield		6834		WC		23	47						
AREA		TOPO MAP	STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER								
ALABAMA		Fruit Hurst - 1/4'	ALA.	CLEBURNE					W. Cass, Jr.								
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS	
												LAT.	DEP.	Y	X		
									1215.3								
537	330		179° 20'	-0.7	7.0	-		-7.0		1208.3		-330	+8	1,161,135	616,252		
538	0			-	5.1	-		-5.1		1210.2	TP	0	0	1,161,465	616,244		
539	328		344° 15'	-	10.0	86° -	+22.8	+12.8		1228.1		+315	-93	1,161,780	616,151		
540	654		339° 15'	-	6.5	85° 46'	+49.4	+42.9		1258.2		+609	-239	1,162,074	615,819		
TP	843	839.6	342° 11 00	-	12.1	84° 50'	+75.9	+63.8		1279.1	TP	+796	-267	1,162,261	615,977		
TP	843				12.0	275° 10'	+75.9	+63.9			TP						
	638		196° 29' 35"	-0.7 +	13.0	92° -	+22.3	+35.3			BS	+614	+174				
	638			+12.9	268° -		+22.3	+35.2	1314.3		BS						
541	495		193° 55'	-	8.8	91° 40'	-14.4	-23.2		1291.1		-482	-113	1,162,393	616,038		
542	167		186° 45'	-	7.3	90° 40'	-1.9	-9.2		1305.1		-166	-18	1,162,709	616,133		
TP	0				5.1	-		-5.1		1309.2	TP	0	0	1,162,875	616,151	TP	
543	108		299° 45'	-0.7	6.8	94° 20'	-8.1	-14.9		1299.4		+52	-94	1,162,927	616,059		
TP	338		296° 25' 13"	-	4.9	96° -	-35.3	-40.2		1274.1	TP	+146	-303	1,163,021	615,848		
TP	338				3.9	96° 10'	-36.3	-40.2			TP						
	396	393.8	83° 00' 15"	-0.6 +	3.0	84° -	-41.4	-38.4	1235.7		BS	-52	-390				
	396			+1.8	84° 10'		-40.2	-38.4			BS						
544	299		82° -	-	9.1	84° 10'	+30.4	+21.3		1257.0		+45	+296	1,163,014	615,754		
TP	0				5.1	-		-5.1		1230.6	TP	0	0	1,162,969	615,458		
545	30		266° 10'	-	5.1	88° -	+1.0	-4.1		1231.6		-2	-30	1,162,967	615,428		
546	358		259° 10'	-	6.0	89° 40'	+2.1	-3.9		1231.8		-71	-351	1,162,888	615,107		

SURVEY NOTES-HIGH RESOLUTION DATA




GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
4-25-85		B. Cotcamp		K. Greenfield		6834		we xll		23	48					
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER						
ALABAMA		Fruithurst-7 1/2'		ALA.	CLEBURNE					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	
									1235.7							
TP	371		258 32 53	-0.6	5.9	89° 40'	+2.2	-3.7			TP	-77	-363	1,162,882	615,095	
TP	371				7.0	89° 30'	+3.2	-3.8		1231.9	TP					
	328	324.8	151 29 42	--	+3.6	82° -	-45.6	-42.0	1189.9		BS	+284	-158			
	328				+2.6	82° 10'	-44.7	-42.1			BS					
547	0				5.1	-		-5.1		1184.8	T	0	0	1,163,176	614,937	
548	302		276 15	--	6.6	86° 20'	+19.3	+12.7		1202.6		+30	-301	1,163,206	614,636	
TP	361		273° 12 49	--	1.0	87° -	+18.9	+17.9		1207.8	TP	+16	-360	1,163,192	614,577	
TP	361				1.0	273 -	+18.9	+17.9			TP					
	147		84 31 16	-0.6	+7.2	89° 0'	-2.6	+4.6	1212.4		BS	-16	-146			
	147				+7.1	271 -	-2.6	+4.5			BS					
T	0				5.1	-		-5.1		1207.3	T	0	0	1,163,176	614,431	
549	122		282° -	--	6.8	96° 36'	-13.8	-20.6		1191.8		+24	-120	1,163,200	614,311	
550	447		287° -	-	4.7	97° -	-54.5	-59.2		1153.2		+126	-429	1,163,30	614,002	
TP	541	536.7	282 17 24	~	5.1	97° 13'	-68.0	-73.1		1139.3	TP	+109	-526	1,163,285	613,905	
TP	541				5.0	262 47	-68.0	-73.0			TP					
	266	263.2	114 07 20	-0.6	+4.1	81° 40'	-38.6	-34.5	1104.8		BS	+105	-241			
	266				+7.2	81° -	-41.6	-34.4			BS					
551	41		116 50	--	5.1	86° 30'	+2.5	-2.6		1102.2		-18	+37	1,163,372	613,701	
T	0				5.1	-		-5.1		1099.7	T	0	0	1,163,390	613,664	
552	290		313 20	~	5.3	93° 30'	-17.9	-23.0		1081.8		+197	-213	1,163,587	613,451	

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
4-25-85		B. Cotcamp		K. Greenfield		6834		we JW6		23	49					
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER					
ALABAMA		Fruiturst-7 1/2		ALA.		CLEBURNE					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 - LAT.	EAST + WEST - DEP.	COORDINATES Y X		REMARKS
									1104.8							
TP	452	450.9	314° 23' 16"	-0.6	9.0	94° -	-31.5	-40.5		1064.3	TP	+312	-326	1,163,702	613,338	
TP	452				8.9	266° -	-31.5	-40.4			TP					
	307	305.6	138° 34' 54"	--	+5.2	84° 30'	-29.4	-24.2	1040.1		BS	+227	-205			
	307				+4.3	84° 40'	-28.5	-24.2			BS					
553	141		132° 40'	--	7.2	86° -	+9.8	+2.6		1042.7		-94	+105	1,163,835	613,238	
TP	0				5.1	-		-5.1		1035.0	TP	0	0	1,163,929	613,133	
Bm	126		304° 03' 58"	--	4.5	91° 20'	-2.9	-7.4		1032.7	Bm	+69	-106	1,163,998	613,027	y = 1,164,000 x = 613,000 1,56525 MEAN 1964 EL. 1032.0
554	183		294° -	--	8.8	91° 20'	-4.3	-13.1		1027.0		+93	-168	1,164,002	612,965	
555	513		292° 10'	--	6.8	91° 20'	-11.9	-18.7		1021.4		+189	-477	1,164,118	612,656	
556	843		292° 05'	--	6.0	91° 20'	-19.6	-25.6		1014.5		+309	-784	1,164,238	612,349	
TP	1060		292° 05' 46"	-	3.7	91° 20'	-24.7	-28.4		1011.7	TP	+388	-986	1,164,317	612,147	
TP	1060				6.8	91° 10'	-21.6	-28.4			TP					
	863		127° 50' 25"	-0.6	2.0	89° 30'	-7.5	-5.5	1006.2		BS	+522	-687			
	863				1.9	270° 30'	-7.5	-5.6			BS					
557	748		127° 25'	-	6.9	89° 16'	+10.9	+4.0		1010.2		-448	+599	1,164,391	612,059	
558	419		125° 10'	-	9.1	89° 10'	+6.1	-3.0		1003.2		-238	+345	1,164,601	611,805	
559	93		115° -	--	8.8	89° 10'	+1.4	-7.4		998.8		-38	+85	1,164,801	611,545	
TP	0				5.1	-		-5.1		1001.1	TP	0	0	1,164,839	611,400	
560	237		300° 20'	--	7.8	92° 10'	-9.0	-16.8		989.4		+118	-206	1,164,957	611,257	
561	567		299° 45'	--	8.7	92° 10'	-21.4	-30.1		976.1		+276	-495	1,165,115	610,965	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4-25-85		B. Catcamp		K. Greenfield		6834		JWC JWG		23		50			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ALABAMA		Fruitburst-7 1/2		ALA.		CLEBURNE								W. Cass, dy	
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									1006.2						
TP	710	709.2	299° 37' 44"	-0.6	6.4	92° 40'	-33.0	-39.4	}	966.8	TP	+344	-620	1,165,183	610,840
TP	710				4.4	92° 50'	-35.1	-39.5		TP					
	120		155° 06' 54"	--	+3.6	84	+0.6	+4.2	}	971.0	BS	+108	-52		
	120				+4.2	-		+4.2		BS					
π	0				5.1	-		-5.1		965.9	π	0	0	1,165,291	610,788
562	74		11° 45'	--	5.8	-		-5.8		965.2		+73	+14	1,165,364	610,802
π	201		10° 36' 48"	-	8.0	-		-8.0		963.0	π	+198	+35	1,165,489	610,823
563	390		0° 40'	-	6.4	87° 20'	+18.1	+11.7		982.7		+390	±0	1,165,681	610,788
TP	443	442.1	356° 56' 41"	-	7.3	86° 20'	+28.3	+21.0	}	992.0	TP	+441	-28	1,165,732	610,760
TP	443				6.0	86° 30'	+27.0	+21.0		TP					
	448	446.9	138° 30' 01"	-0.6	8.1	94°	+31.3	+39.4	}	1031.4	BS	+332	-300		
	448				+6.8	94° 10'	+32.6	+39.4		BS					
564	182		136° 20'	--	8.8	92° 30'	-7.9	-16.7		1014.7		-130	+127	1,165,934	610,587
π	0				5.1	-		-5.1		1026.3	π	0	0	1,166,064	610,460
565	172		7° 05'	--	3.5	86° 30'	+10.5	+7.0		1038.4		+171	+19	1,166,235	610,479
TP	498		8° 42' 49"	-	6.3	87° 10'	+24.6	+18.3	}	1049.7	TP	+492	+70	1,166,556	610,530
TP	498				6.2	272° 50'	+24.6	+18.4		TP					

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
4-26-85		B. Cotcamp		K. Greenfield		6834		WC MUG		23	51						
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER						
ALABAMA		Fruithurst-7 1/2		ALA.		CLEBURNE					W. Cassidy						
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS	
												LAT.	DEP.	Y	X		
									1049.7								
	344		100° 49' 30"	-0.6	+4.6	88° 10'	-11.0	-6.4	1043.3		BS	+61	-338				
	344				+3.6	88° 20'	-10.0	-6.4		BS							
566	313		102° 15'	--	4.7	88° 20'	+9.1	+4.4		1047.7		-63	+307	1,166,554	610,500		
566	279		97° 16' 18"	--	3.2	88° 20'	+8.1	+4.9		1048.2	TP	-32	+277	1,165,585	610,470	1/4 y = 165,585 x = 610,470 1/4 4 way Int. Horiz 3-14 corr. x = +16	
567	0				5.1	-		-5.1		1038.2	TP	0	0	1,166,617	610,193		
568	330		267° 30'	-0.6	6.8	89° 30'	+2.9	-3.9		1039.4		-18	-330	1,166,599	609,863		
TP	559		264° 59' 44"	--	8.0	89° -	+9.8	+1.8		1045.1	TP	-55	-556	1,166,562	609,637		
TP	559				7.9	21° -	+9.8	+1.9			TP						
	368		53° 31' 12"	-0.6	+5.0	88° 30'	-9.6	-4.6	1040.5		BS	-222	-293				
	368				+3.9	88° 40'	-8.6	-4.7		BS							
569	271		50° 30'	-	6.2	88° 16'	+8.7	+2.5		1043.0		+175	+207	1,166,515	609,551		
TP	0				5.1	-		-5.1		1035.4	TP	0	0	1,166,340	609,344		
570	60		259° -	-	5.9	93° 10'	-3.3	-9.2		1031.3		-12	-59	1,166,328	609,285		
571	390		257° -	--	7.7	93° 10'	-21.5	-29.2		1011.3		-92	-379	1,166,248	608,965		
572	720		256° 10'	--	9.0	91° 40'	-20.9	-29.9		1010.6		-179	-677	1,166,161	608,647		
TP	968		256° 31' 08"	--	7.1	90° 40'	-11.3	-18.4	1022.1		TP	-235	-939	1,166,105	608,405		
TP	968				7.1	269° 20'	-11.3	-18.4		TP							
	659		124° 54' 28"	-0.6	+7.5	-		+7.5	1029.6		BS	+371	-544				
	659				+10.8	TH	-3.3	+7.5		BS							
TP	630		124° 26' 15"	--	9.4	TH	+3.2	-6.2		1023.4	TP	-351	+523	1,166,125			

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
4-26-85		B. Cotcamp		K. Greenfield		6834		WC KWG		23	52						
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
ALA.		Fruithurst-7 1/2'		ALA.	CLIBURN					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		
									10296								
573	559		124° 05'	-0.6°	7.0	-		-7.0		1022.6		-308	+466	1,166,168	608,327		
574	230		128° 30'	-	7.8	-		-7.8		1021.8		-141	+181	1,166,335	608,042		
π	0				5.1	-		-5.1		1024.5	π	0	0	1,166,476	607,861		
575	102		335° 35'	-	4.0	TH	+0.5	-3.5		1026.1		+92	-43	1,166,568	607,818		
TP	392		334° 00' 36"	-	14.1	96° 30'	-3.4	-17.5		1012.1	TP	+351	-175	1,166,827	607,686		
TP	392				14.0	269° 30'	-3.4	-17.4			TP						
	121		104° 18' 34"	-0.6°	+1.5	-		+1.5		1013.6	BS	+29	-118				
	121				+2.1	TH	-0.6	+1.5			BS						
576	82		99° 50'	-	3.0	-		-3.0		1010.6		-13	+81	1,166,843	607,649		
π	0				5.1	-		-5.1		1008.5	π	0	0	1,166,856	607,568		
577	241		266° 50'	-	6.4	91° 30'	-6.3	-12.7		1000.9		-16	-240	1,166,840	607,328		
TP	300		267° 31' 52"	-	7.6	91° 30'	-7.9	-15.5		998.1	TP	-16	-299	1,166,840	607,269		
TP	300				7.5	268° 30'	-7.9	-15.4			TP						
	598		101° 42' 09"	-0.6°	+6.0	92°	+20.9	+26.9		1025.0	BS	+115	-586				
	598				+4.3	92° 10'	+22.6	+26.9			BS						
578	330		101° 05'	-	8.0	92° 20'	-13.4	-21.4		1003.6		-60	+324	1,166,895	607,007		
579	0				5.1	-		-5.1		1019.9	π	0	0	1,166,955	606,683		
580	324		259° 35'	-	6.3	89° 20'	+3.8	-2.5		1022.5		-62	-318	1,166,893	606,365		
TP	354		260° 27' 59"	-	5.0	89° 20'	+4.1	-0.9		1024.1	TP	-62	-348	1,166,893	606,335		
TP	354				4.9	270° 40'	+4.1	-0.8			TP						

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
4-26-85		B. Cotamp		K. Greenfield		6834		WC KOC		23	53					
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER					
ALABAMA		FRuithurst-74'		ALA.		CLEburne					W. Cass, Jr					
STATION NO.	SLOPE DISTANCE	PLOTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS
												LAT.	DEP.	Y	X	
										1024.1						
	405		116° 53' 22"	-0.6	+5.3	88° 50'	-8.2	-2.9	1021.2		BS	+179	-363			
	405				+6.5	88° 40'	-9.4	-2.9		BS						
581	163		115° 50'	--	5.9	88° 50'	+2.1	-3.8		1017.4		-44	+93	1,167,028	606,065	
	0				5.1	-		-5.1		1016.1	X	0	0	1,167,072	605,972	
582	226		288° 40'	-0.6	6.7	91° 16'	-4.6	-11.3		1009.9		+70	-215	1,167,142	605,757	
583	559		288° 02' 48"	--	8.0	90° 50'	-8.1	-16.1		1005.1	TP	+168	-533	1,167,240	605,439	
583	559				9.6	90° 40'	-6.5	-16.1		TP						
	334	332.9	162° 26' 04"	-	+5.8	85° 24'	-26.8	-21.0	984.1		BS	+316	-104			
	334				+5.7	274° 36'	-26.8	-21.1		BS						
584	0				5.1	-		-5.1		979.0	X	0	0	1,167,556	605,335	
585	330		348° 15'	-0.6	7.3	90° 30'	-2.9	-10.2		973.9		+322	-71	1,167,878	605,264	
TP	456		347° 34' 48"	--	5.3	90° 30'	-4.0	-9.3		974.8	TP	+444	-103	1,168,000	605,232	
TP	456				5.2	269° 30'	-4.0	-9.2		TP						
	531	521.6	172° 27' 30"	--	+4.6	83° 30'	-60.1	-55.5	919.3		BS	+522	-75			
	531				+6.1	83° 20'	-61.6	-55.5		BS						
586	336		173° 10'	-0.6	8.9	83°	+40.2	+31.3		950.6		-327	+43	1,168,195	605,200	
587	0				5.1	-		-5.1		914.2	X	0	0	1,168,522	605,157	
H	118		345° 52' 34"	--	5.7	89°	+2.1	-3.6		915.7	H	+114	-30	1,168,636	605,127	# -1,168,620 x -605,130 CREEK CROSSING
TP	251	250.2	337° 16' 56"	-0.6	5.6	85° 30'	+19.7	+14.1		933.4	TP	+230	-99	1,168,752	605,058	
TP	251				4.9	85° 40'	+19.0	+14.1		TP						

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4-26-85		B. Cotcamp		K. Greenfield		6834		WC HWA		23		54			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ALABAMA		FRUITMURST - 7 1/2		ALA.		CLEBURNE								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
									933.4						
	316		149° 16' 22"	-0.4	+7.4	91° -	+5.5	+12.9	946.3		BS	+270	-163		
	316				+6.5	91° 10'	+6.4	+12.9		BS					
588	244		149° 17'	-	6.2	91° 30'	-6.4	-12.6	933.7			-209	+126	1,168,813	605,021
X	0				5.1	-	-	-5.1	941.2	X		0	0	1,169,022	604,895
589	86		350° 20'	-0.4	5.6	85° 30'	+6.7	+1.1	947.4			+85	-15	1,169,107	604,880
590	415		354° 05'	-	4.8	85° -	+36.2	+31.4	977.7			+412	-46	1,169,434	604,849
TP	508		350° 32' 01"	-	5.1	85° -	+44.3	+39.2	985.5	TP		+499	-87	1,169,521	604,808
TP	508				3.6	85° 10'	+42.8	+39.2		TP					
	888		132° 04' 05"	-0.4	+6.4	-	-	+6.4	991.9	BS		+590	-663		
	888				+10.9	TH	-4.4	+6.5		BS					
591	659		131° 45'	-	6.8	-	-	-6.8	985.1			-435	+495	1,169,676	604,640
592	330		-	-	10.3	-	-	-10.3	981.6			-218	+248	1,169,893	604,393
593	0				5.1	-	-	-5.1	986.8	X		0	0	1,170,111	604,145
594	320		315° 45'	-0.4	6.0	-	-	-6.0	985.9			+228	-225	1,170,339	603,920
595	639		306° -	-	8.1	89° -	+11.2	+3.1	995.0			+372	-520	1,170,483	603,625
596	968		306° 25'	-	9.1	88° 38'	+23.1	+14.0	1005.9			+569	-783	1,170,680	603,362
TP	1087		306° 34' 58"	-	10.8	88° 40'	+25.3	+14.5	1006.4	TP		+642	-877	1,170,753	603,268
TP	1087				10.7	271° 20'	+25.3	+14.6		TP					

VEY NOTES-HIGH RESOLUTION DATA

LO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4-26-85		B. Cotcamp		K. Greenfield		6834		WC		23		55			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ALABAMA		FRITHURST-7E		ALA		CLEBURNE								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
									1006.4						
	681		109° 09' 51"	-0.4	6.6	88° 20'	-19.8	-13.2	993.2		BS	+219	-645		
	681				6.5	271° 40'	-19.8	-13.3			BS				
597	500		99° 10'	-	5.6	88° 20'	+14.5	+8.9		1002.1		-76	+494	1,170,896	603,117
IF	312		57° 45' 42"	-	6.1	89° 30'	+2.7	-3.4		989.8	IF	+168	+263	1,171,140	602,886
598	289		58° -	-	6.6	89° 30'	+2.5	-4.1		989.1		+155	+244	1,171,127	602,867
X	0				5.1	-		-5.1		988.1	X	0	0	1,170,972	602,623
TP	528		233° 26' 42"	-0.4	9.7	-		-9.7		983.5	TP	-317	-422	1,170,655	602,201
TP	528				7.1	BH	-2.6	-9.7			TP				
	1892		174° 20' 52"	-	10.7	BH	+9.5	+20.2	1003.5		BS	+1881	-199		
	1892				10.4	BH 270	+9.5	+19.9	200.3		BS				
599	1650		174° 20'	-	8.7	BH	-8.3	-17.0		986.5		-1641	+174	1,170,895	602,176
600	1320		174° 15'	-	11.9	-		-11.9		991.6		-1312	+141	1,171,224	602,143
601	990		-	-	9.6	-		-9.6		993.9		-984	+106	1,171,552	602,108
602	660		-	-	8.6	-		-8.6		994.9		-656	+71	1,171,880	602,073
603	330		-	-	5.2	-		-5.2		998.3		-328	+35	1,172,208	602,037
604	0				5.1	-		-5.1		998.4	X	0	0	1,172,536	602,002
IF	176		344° 33' 08"	-0.4	3.2	-		-3.2		1000.3	IF	+169	-48	1,172,705	601,954
605	330		348° 05'	-	7.1	89° -	+5.8	-1.3		1002.2		+322	-70	1,172,858	601,932
606	660		-	-	9.0	89° -	+11.5	+2.5		1006.0		+645	-141	1,173,181	601,861
607	990		-	-	8.1	88° 40'	+23.0	+14.9		1018.4		+967	-211	1,173,503	601,791

Y-1,171,160 X-602,900
 IF T-Inter. EL. 989.0
 *NOTE - 840 OFFSET
 South West between
 598 + 599

Y-1,172,710 X-601,970
 IF T-Inter. EL. 1000.0

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
4-26-85		K. Greenfield		B. Cotcamp		6834		wc KWB		23	56			
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER			
ALABAMA		Fruit Hurst - 7 1/2		ALA.		CLEBURNE					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.	
									1003.5					
608	1320		347° 50'	--	5.3	88° 30'	+34.5	+29.2		1032.7		+1288	-287	1,173,824 601,715
609	1649		347° 42' 15"	-0.7	14.7	88° 42'	+37.4	+22.7		1026.2	TP	+1607 _{wc}	-371	1,174,142 601,631
609	1649				14.6	271° 18'	+37.4	+22.8			TP			
	1649		167° 15' 10"	--	9.9	-		+9.9		1036.0	BS	+1604	-383	
	1649				9.7	270°		+9.7		1048.3	BS			
610	1320		167° 15'	~	8.0	90° 50'	-19.2	-27.2		1008.8		-1284	+307	1,174,462 601,555
611	970		" "	~	11.0	90° 50'	-14.4	-25.4		1010.6		-963	+230	1,174,783 601,478
612	660		" "	--	6.5	90° 50'	-9.6	-16.1		1019.9		-642	+154	1,175,104 601,402 Fruit Hurst - 7 1/2 ↑
613	330		" "	--	6.0	90° 10'	-1.0	-7.0		1029.0		-321	+77	1,175,425 601,325 MEFLIN - 7 1/2 ↓
614	0				5.1	-		-5.1		1030.9	TP	0	0	1,175,746 601,248
615	330		346° 10'	-0.7	10.2	92° 10'	-12.5	-22.7		1013.3		+319	-83	1,176,065 601,165
616	658		342° 40'	..	6.7	93° 40'	-42.1	-48.8		987.2		+626	-204	1,176,372 601,044
TP	837		341° 09' 03"	--	6.4	93° 30'	-51.1	-57.5		978.5	TP	+787	-280	1,176,533 600,968
TP	837				6.3	266° 30'	-51.1	-57.4			TP			
	1347		148° 44' 09"	-0.7	4.8	91°	+23.5	+28.3		1006.6	BS	+1143	-713	
	1347				4.5	269°	+23.5	+28.0		1028.1 ₃	BS			
617	1200		148° 40'	..	6.6	91° 10'	-24.4	-31.0		975.6		-1017	+637	1,176,659 600,892
618	866 869		148° 30'	~	7.0	91° 10'	-17.7	-24.7		981.9		-735	+463	1,176,941 600,718
619	536 538		148° 20'	..	6.5	91° 10'	-11.0	-17.5		989.1		-454	+288	1,177,222 600,543
620	207 207		146° 40'	~	6.0	91° 10'	-4.2	-10.2		976.4		-172	+116	1,177,504 600,371

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
4-26-85		B. Cotcamp		K. Greenfield		6834		WC KUC		23		57				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
ALA.		HEFLIN-7 1/2		ALA.		CLEBURNE								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
									1006.6							
41	132		152° 50' 51"	-0.7	5.9	91° 10'	-2.7	-8.6		998.0	41	-117	+62	1,177,559	600,317	g - 1,177,500 x - 600,300 y - Inter by 997.0
π	0				5.1	-		-5.1		1001.5	π	0	0	1,177,676	600,255	
621	124		315° 20'	--	6.6	87° 40'	+5.0	-1.6		1005.0		+87	-88	1,177,763	600,167	
622	454		315°	--	5.2	87° 40'	+18.5	+13.3		1019.9		+317	-325	1,177,993	599,930	
623	783		313° 40'	--	9.8	86° 30'	+47.8	+38.0		1044.6		+534	-573	1,178,210	599,682	
624	1113		313° 20'	--	4.5	86° 30'	+67.9	+63.4		1070.0		+754	-819	1,178,430	599,436	
625	1443		313°	-0.7	8.9	86° 30'	+88.1	+79.2		1085.8		+971	-1067	1,178,647	599,188	
626	1773		312° 53'	--	13.0	86° 42'	+102.1	+87.1		1095.7		+1191	-1314	1,178,867	598,941	
TP	1809		312° 44' 45"	--	14.2	86° 42'	+104.1	+89.9		1096.5	TP	+1210	-1341	1,178,886	598,914	
TP	1809				14.1	273° 18'	+104.1	+90.0			TP					
	510		121° 26' 10"	-0.7	14.2	86° 40'	-29.7	-15.5	1081.0		BS	+260	-438			
	510				12.7	86° 50'	-28.2	-15.5			BS					
627	220		113° 20'	--	10.6	84° 10'	+22.4	+11.8		1092.8		-85	+203	1,179,061	598,679	
A	278		110° 47' 39"	--	8.0	84° 10'	+28.3	+20.3		1101.3	A	-95	+260	1,179,151	598,736	g - 1,179,030 x - 598,715 A T.R. - STA. EL. 1102.0
π	0				5.1	-		-5.1		1075.9	π	0	0	1,179,146	598,476	
628	111		275° 50'	-0.7	7.7	92° 40'	-5.2	-12.9		1068.1		+10	-111	1,179,156	598,365	
629	440		273° 50'	--	8.6	93° 40'	-27.7	-36.7		1044.3		+24	-439	1,179,170	598,037	
630	770		272° 40'	--	4.6	92° 40'	-35.8	-40.4		1040.6		+26	-770	1,179,172	597,706	
631	1100		272° 20'	--	10.2	91° 20'	-25.6	-35.8		1045.2		+31	-1100	1,179,177	597,376	
632	1430		272° 05'	--	11.2	90° 20'	-8.3	-19.5		1061.5		+35	-1430	1,179,181	597,046	

TRIEVE NOTES-HIGH RESOLUTION DATA

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4-26-85		B. Camp		K. Greenfield		6834		WC KWC		23		58			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ALABAMA		MEFLIN -76'		ALA.		CLEBURNE								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
									1081.0						
633	1758		271° 50'	-0.7	9.1	89° 50'	+5.1	-4.0		1077.0		+35	-1758	1,179,181	594,718
634	2091		272° 05' 37"	--	5.7	89° 50'	+6.1	+0.4		1081.5	TP	+51	-2090	1,179,197	596,386
634	2091				5.4	270° 10'	+6.1	+0.7	10.53		TP				access sta.
	1018		112° 39' 25"	-- +	8.0	89° 10'	-14.8	-6.8	1074.7		BS	+381	-944		
	1018			+	7.9	270° 50'	-14.8	-6.9			BS				
635	685		113° 25'	--	5.4	89° 10'	+10.0	+4.6		1079.3		-265	+632	1,179,313	596,074
636	355		- -	-0.7	12.3	89° 10'	5.2	-7.1		1067.6		-137	+327	1,179,441	595,769
637	44		64° 50'	--	5.8	91° 40'	-1.3	-7.1		1067.6		+19	+40	1,179,597	595,482
TP	36		77° 40' 57"	-	5.5	91° 40'	-1.0	-6.5		1068.2	TP	+8	+35	1,179,586	595,477
TP	0				5.1	-	-	-5.1		1069.6	TP	0	0	1,179,578	595,442
638	319		328° 25'	-0.7	9.5	85° 20'	+26.0	+16.5		1091.2		+270	-170	1,179,848	595,272
639	648		331° -	-	7.8	85° 30'	+50.8	+43.0		1117.7		+563	-321	1,180,141	595,121
640	976		331° 10'	-	5.6	86° -	+68.1	+62.5		1137.2		+849	-481	1,180,427	594,961
TP	1059		330° 00' 08"	-	8.4	86° -	+73.9	+65.5		1140.2	TP	+968	-539	1,180,486	594,903
TP	1059				8.3	274° -	+73.9	+65.6			TP				
	577		87° 21' 38"	-0.7 +	3.0	-	-	+3.0	1143.2		BS	-34	-576		
	577			+	5.9	TM	-2.9	+3.0			BS				
641	330		83° 25'	--	8.3	-	-	-8.3		1134.9		+42	+327	1,180,494	594,654
642	0				5.1	-	-	-5.1		1138.1	TP	0	0	1,180,452	594,327
643	330		263° -	--	6.0	87° 20'	+15.4	+9.4		1152.6		-44	-327	1,180,468	594,000

1,179,540 x - 595,430
 TP - Inter. EL. 1068.0

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4-26-85		B. Cotnam		K. Greenfield		6834		KWC		23		59			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ALABAMA		MEFLIN-7 1/2		ALA.		CLEBURNE								W. Cass. dy	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									1143.2						
644	659		264° 05'	-0.7	6.3	87° 20'	+30.7	+26.4		1167.6		-76	-655	1,180,376	593,672
TP	718		264° 00' 21"	--	5.3	87° 20' 1"	+33.4	+28.1		1171.3	TP	-84	-712	1,180,368	593,615
TP	718				5.2	272° 40'	+33.4	+28.2			TP				
	213		127° 28' 45"	+0.7	11.4	-		+11.4	1182.7		BS	+128	-171		
	213			+1.1	10.4	BH	+1.1	+11.5			BS				
TP	0				5.1	-		-5.1		1177.6	TP	0	0	1,180,496	593,444
645	81		346° 20'	-0.7	6.4	91° -	-1.4	-7.8		1174.9		+78	-20	1,180,574	593,424
646	416		347° 50'	--	9.0	91° -	-7.2	-16.2		1166.5		+700	-91	1,180,896	593,353
647	738		347° 28' 17"	--	8.7	91° -	-12.9	-21.6		1161.1	TP	+718	-169	1,181,214	593,275
647	738				8.6	269° -	-12.9	-21.5			TP				
	1037		158° 00' 00"	-0.7	6.5	93° 40'	+66.3	+72.8	1233.9		BS	+955	-399		
	1037				6.4	266° 26'	+66.3	+72.7			BS				
648	707		158° 40'	--	11.7	94° -	-49.3	-61.0		1172.9		-655	+265	1,181,514	593,141
649	378		157° 45'	--	8.8	94° -	-26.4	-35.2		1198.7		-348	+147	1,181,821	593,023
650	54		145° 50'	--	7.5	91° -	-0.9	-8.4		1225.5		-44	+31	1,182,125	592,907
TP	0				5.1	-		-5.1		1228.8	TP	0	0	1,182,169	592,876
651	47		287° 17' 10"	-0.7	5.3	87° -	+2.5	-2.8		1231.1	65	+13	-45	1,182,182	592,831
651	279		304° 20'	--	3.9	87° 20'	+13.0	+9.1		1243.0		+155	-232	1,182,324	592,644
652	609		-	--	12.0	88° -	+21.2	+9.2		1243.1		+337	-507	1,182,506	592,369
653	939		-	--	15.4	88° -	+32.8	+17.4		1251.3		+520	-782	1,182,689	592,094

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
4-26-85		B. Cotamp		K. Greenfield		6834		WC HWC		23	60				
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
ALABAMA		Heplin - 7 1/2'		ALA.		CLEBURNE					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
									1233.9						
654	1269		304° 40'	-0.7	8.0	87° 50'	+47.9	+39.9		1273.8		+709	-1052	1,182,878	591,824
TP	1399		304° 24' 02"	--	9.4	87° 50'	+52.9	+43.5		1277.4	TP	+776	-1163	1,182,945	591,713
TP	1399				9.3	272° 10'	+52.9	+43.6			TP				
	862		141° 40' 03"	--	10.8	BH	+4.3	+15.1		1292.5	BS	+670	-543		
	862				+15.1	-		+15.1			BS				
655	657		141° 30'	--	8.3	90° 40'	-7.6	-15.9		1276.6		-509	+415	1,183,106	591,585
656	328		139° 55'	--	7.1	90° 40'	-3.8	-10.9		1281.6		-248	+214	1,183,367	591,384
657	0				5.1	-		-5.1		1287.4	TP	0	0	1,183,615	591,170
658	324		284° 25'	-0.7	5.4	89° 40'	+1.9	-3.5		1289.0		+77	-315	1,183,692	590,855
TP	332		280° 17' 26"	--	13.2	88° 30'	+8.7	-4.5		1288.0	TP	+55	-327	1,183,670	590,843
TP	332				13.1	271° 30'	+8.7	-4.4			TP				
	596		85° 14' 24"	--	+13.0	BH	+3.0	+16.0		1304.0	BS	-57	-593		
	596				+5.6	91°	+10.4	+16.0			BS				
659	284		87° 40'	--	8.3	91°	-5.0	-13.3		1290.7		+15	+284	1,183,628	590,534
TP	0				5.1	-		-5.1		1298.9	TP	0	0	1,183,613	590,250
660	76		332° 40'	-0.7	6.5	87°	+4.0	-2.5		1301.5		+67	-36	1,183,680	590,214
661	400		312° 50'	--	8.5	87°	+20.9	+12.6		1316.6		+268	-297	1,183,881	589,953
662	730		312° 20'	--	6.5	88°	+25.5	+19.0		1323.0		+485	-546	1,184,098	589,704
TP	880		311° 16' 59"	--	11.9	88°	+30.7	+18.8		1322.8	TP	+572	-668	1,184,185	589,582
TP	880				11.8	272°	+30.7	+18.9			TP				

HEFLIN - 7 1/2' ↑
Piedmont S.E. - 7 1/2'

NOTES-HIGH RESOLUTION DATA

Geosource Inc.

1-26-85		INSTRUMENT MAN B. Cotcamp	ROD MAN K. Greenfield	PARTY NUMBER 6834		NOTES CHECKED BY WC KLG		LINE NO. 23	PAGE 61							
ABAMA (Talledega)		TOPO MAP Piedmont S.E. - 7/8	STATE ALA.	COUNTY CLEBURNE		TWP	RANGE	PPM	PARTY MANAGER W. Cassidy							
SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS	
											LAT.	DEP.	Y	X		
									1322.8							
702		134° 14' 32"	-0.7 +	13.0	BH	+3.5	+16.5	1339.3		BS	+484	-509				
702				+12.9	BH	+3.5	+16.4			BS						
522		132° 25'	--	6.9	90° 58'	-8.8	-15.7		1323.6		-347	+390	1,184,322	589,463		
192		--	--	7.9	91°	-3.4	-11.3		1328.0		-128	+143	1,184,541	589,216		
0				5.1	--		-5.1		1334.2	TP	0	0	1,184,669	589,073		
147		344° 55'	-0.7	8.9	86°	+10.3	+1.4		1340.7		+141	-40	1,184,810	589,033		
474		347° 55'	--	7.7	86° 20'	+30.3	+22.6		1361.9		+462	-105	1,185,131	588,968		
735		345° 32' 06"	--	7.5	86° 20'	+47.0	+39.5		1378.8	TP	+708	-192	1,185,377	588,881	TP	7-1185400 x-588,870 Hwy
800		345° 15'	--	8.0	86° 20'	+51.2	+43.2		1382.5		+771	-213	1,185,440	588,860		
821		344° 31' 49"	--	8.6	86° 20'	+52.5	+43.9		1383.2	TP	+787	-228	1,185,456	588,845		
821				11.0	86° 10'	+54.9	+43.9			TP						
634		132° 00' 00"	-0.7 +	13.0	--		+13.0	1396.2		BS	+418	-476				
634				+9.8	BH	+3.2	+13.0			BS						
329		127° 20'	--	8.5	--		-8.5		1387.7		-196	+264	1,185,678	588,633		
0				5.1	--		-5.1		1391.1	TP	0	0	1,185,874	588,369		
329		291° 10'	--	9.3	--		-9.3		1386.9		+115	-308	1,185,989	588,061		
579		288° 23' 44"	--	11.5	91° 20'	-13.5	-25.0		1371.2	TP	+176	-551	1,186,050	587,818	TP	5-1,186,000 x-587,800 July
11 660		287° 19' 21"	-0.5 -	15.0	91° 22'	-15.7	-30.7		1365.5	TP	+191	-632	1,186,065	587,737	TP	Across STA.
71 660				14.9	268° 38'	-15.7	-30.6			TP						

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
4-27-85		B. Cotcamp		K. Greenfield		6834		WC KWA		23	62			
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER			
ALABAMA		Piedmont SE.-74		ALA.		CLEBURNE					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.	
41										1365.5				
	336		134° 11' 58"	-0.5 +	5.7	85° 30'	-26.4	-20.7	1344.8		BS	+231	-242	
	336				+ 6.7	85° 20'	-27.3	-20.6		BS				
672	0			--	5.1	-		-5.1		1339.7	X	0	0	1,186,296 587,495
673	330		337 -	--	10.8	93° 10'	-18.2	-29.0		1315.8		+303	-132	1,186,599 587,363
674	658		336° 35'	--	8.8	93° 10'	-36.3	-45.1		1299.7		+602	-267	1,186,898 587,228
TP	787		333° 31' 24"	--	4.6	93° 10'	-43.5	-48.1	1296.7		TP	+700	-356	1,186,996 587,139
TP	787				6.0	93° 04'	-42.1	-48.1		TP				
	253		104° 28' 22"	-0.5 +	4.1	88° 10'	-8.1	-4.0	1292.7		BS	+61	-245	
	253				+ 3.3	88° 20'	-7.4	-4.1		BS				
675	76		71° 30'	--	5.7	87° -	+4.0	-1.7		1291.0		+25	+72	1,187,083 586,966
X	0				5.1	-		-5.1		1287.6	X	0	0	1,187,057 586,894
676	263		282° 30'	--	7.8	93° -	-13.7	-21.5		1271.2		+55	-257	1,187,102 586,637
TP	470		282° 35' 56"	--	5.1	94° -	-32.8	-37.9	1254.8		TP	+98	-458	1,187,155 586,436
TP	476				13.3	93° -	-24.6	-37.9		TP				
	402		136° 53' 32"	-0.5 +	9.7	85° -	-35.0	-25.3	1229.5		BS	+290	-276	
	402				+ 8.5	85° 10'	-33.9	-25.4		BS				
677	283		139° 40'	--	7.3	85° 16'	+23.8	+16.5		1246.0		-214	+185	1,187,231 586,345
X	0				5.1	-		-5.1		1224.4	X	0	0	1,187,445 586,160
678	47		343° 15'	--	7.0	89° 10'	+0.7	-6.3		1223.2		+45	-14	1,187,490 586,146
679	367		308° -	--	5.8	92° 10'	-13.9	-19.7		1209.8		+223	-291	1,187,668 585,869

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
4-27-85		B. Cotcamp		K. Greenfield		6834		WC KWL		23	63				
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
ALABAMA		Piedmont SE 7 1/2		ALA.		CLEBURNE					W. Cass, Jr				
STATION NO.	SLOPE DISTANCE	PLOTTING 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
									1229.5						
TP	547		309° 19' 49"	-0.5	5.5	91° 20'	-12.7	-18.2	}	1211.3	TP	+343	-426	1,187,788	585,734
TP	547				3.9	91° 30'	-14.3	-18.2		TP					
	716		173° 35' 52"	--	+14.6	86° 30'	-47.4	-32.8	}	1178.5	BS	+769	-93		
	776				+12.3	86° 40'	-45.1	-32.8		BS					
680	615		173° 30'	--	9.6	86° 20'	+39.3	+29.7		1208.2		-610	+75	1,187,947	585,716
681	285		172° 55'	--	7.3	85° 20'	+23.2	+15.9		1194.4		-283	+38	1,188,274	585,679
X	0				5.1	-		-5.1		1173.4	X	0	0	1,188,557	585,641
682	44		344° 45'	-0.5	7.0	92° 20'	-1.8	-8.8		1169.7		+42	-12	1,188,599	585,629
683	373		337° 10'	--	6.5	94° 20'	-25.2	-34.7		1143.8		+342	-148	1,188,899	585,493
684	699		333° 30'	--	9.2	94° 20'	-52.8	-62.0		1116.5		+623	-317	1,189,180	585,324
685	1028		334° 40'	--	7.0	93° 50'	-68.7	-75.7		1102.8		+925	-448	1,189,482	585,193
IF	1039		333° 50' 50"	--	6.9	93° 50'	-69.5	-76.4		1102.1	IF	+927	-465	1,189,484	585,176 IF y-inter.
TP	1093		333° 30' 24"	--	2.6	93° 50'	-73.1	-75.7	}	1102.8	TP	+972	-495	1,189,529	585,146
TP	1093				5.8	93° 40'	-69.9	-75.7		TP					
	1067		116° 54' 03"	-0.5+	7.3	-		+7.3	}	1110.1	BS	+474	-956		
	1067				+7.2	270 -		+7.2		BS					
686	810		116° 50'	--	8.0	-		-8.0		1102.1		-359	+726	1,189,644	584,916
687	481		118° 55'	--	8.2	-		-8.2		1101.9		-229	+423	1,189,774	584,613
#	230		115° 49'	--	8.1	-		-8.1		1102.0	#	-98	+208	1,189,905	584,398 #
688	156		107° 30'	-	7.8	-		-7.8		1102.3		-46	+149	1,189,959	584,339

1,189,900 X 584,400
BRIDGE

KEY NOTES-HIGH RESOLUTION DATA

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4-27-85		B. Cotcamp		K. Greenfield		6834		we KGW		23		64			
AREA		TERRITORY MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ALABAMA		Piedmont S.E. - 7 1/2'		ALA.		CLEBURNE								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
									1110.1						
π	0				5.1	-		-5.1		1105.0	π	0	0	1,190,003	584,190
689	164		285° 40'	-0.5	5.7	84° 50'	+114.8	+9.1		1119.2		+43	-158	1,190,046	584,032
690	484		269° -	-	4.6	84° 50'	+43.6	+39.0		1149.1		-13	-484	1,189,990	583,706
691	813		266° 20'	-	6.3	84° 50'	+73.2	+66.9		1177.0		-59	-811	1,189,944	583,379
TP	1030		266° 27' 06"	-	11.4	84° 50'	+92.8	+81.4		1191.5	TP	-72	-1023	1,189,931	583,167
TP	1030		" " "	-	8.4	85° -	+89.8	+81.4			TP				
	2027		102° 42' 40"	-0.5	14.3	90° 38'	+22.4	+36.7	1228.2		BS	+429	-1981		
	2027		" " "	+	14.2	269° 22'	+22.4	+36.6			BS				
692	1912		102° 26'	-	11.8	90° 36'	-20.0	-31.9		1196.4		-395	+1871	1,189,965	583,057
693	1582		" "	-	10.8	84°	-7.9	-19.7		1209.5		-327	+1548	1,190,033	582,734
694	1252		" "	-	6.4	90° 40'	-10.4	-21.0		1207.2		-259	+1225	1,190,101	582,411
695	923		102° 15'	-0.5	10.2	91° 30'	-24.2	-34.7		1193.8		-188	+904	1,190,172	582,090
696	593		" "	-	11.8	91° 30'	-15.5	-27.3		1200.9		-121	+581	1,190,239	581,767
697	263		" "	-	4.7	91° 30'	-6.9	-11.6		1216.6		-54	+257	1,190,306	581,443
π	0				5.1	-		-5.1		1223.1	π	0	0	1,190,360	581,186
698	83		325° 05'	-0.5	6.0	88° 30'	+2.2	-3.9		1224.4		+68	-48	1,190,428	581,138
699	409		314° -	-	10.0	-		-10.0		1218.2		+282	-297	1,190,642	580,889
fl	486		314° 12' 03"	-	10.2	-		-10.2		1218.0	fl	+336	-351	1,190,696	580,835
700	732		319° 15'	-	7.1	-		-7.1		1221.1		+550	-483	1,190,910	580,703

Y=1,190,655 X=580,810
T-Int 31. FL 1218.0

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
4-26-85		B. Cotcamp		K. Greenfield		6834		WC KWG		23	65				
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
ALABAMA		Piedmont SE. -7 1/2'		ALA.		CLEBURNE					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
									1228.2						
TP	874		320° 42' 44"	-0.5	7.0	71	+4.4	-2.6	}	1225.6	TP	+672	-559	1,191,032	580,627
TP	874				6.9	74 2/3	+4.4	-2.5		TP					
	848		146° 53' 20"	..	+10.0	92°	+29.6	+39.6	}	1265.2	BS	+706	-469		
	848				+7.6	92 1/2	+32.1	+39.7		BS					
701	660		146° 45'	..	8.5	92°	-23.0	-31.5		1233.7		-549	+367	1,191,189	580,525
702	330		145° 10'	..	5.3	92°	-11.5	-16.8		1248.4		-269	+191	1,191,469	580,349
703	0				5.1	-		-5.1		1260.1	A	0	0	1,191,738	580,158
704	330		323° 35'	-0.5	7.3	89°	-5.8	-1.5		1263.7		+264	-198	1,192,002	579,960
TP	553		324° 11' 18"	--	4.5	88° 20'	+16.1	+11.6	}	1276.8	TP	+445	-327	1,192,183	579,831
TP	553				2.9	88° 30'	+14.5	+11.6		TP					
	693		188° 30' 54"	..	+5.7	94° 30'	+54.4	+60.1	}	1336.9	BS	+684	+96		
	693				+7.7	94° 20'	+52.4	+60.1		BS					
705	566		181° 55'	--	7.0	95°	-49.3	-56.3		1280.6		-561	-73	1,192,306	579,854
706	241		181° 50'	..	8.1	96°	-25.2	-33.3		1303.6		-241	-6	1,192,626	579,921
FL	117		185° 29' 34"	--	13.3	96°	-12.2	-25.5		1311.4		-117	-10	1,192,750	579,917
K	0				5.1	-		-5.1		1331.8	K	0	0	1,192,867	579,927
707	114		307°	-0.5	5.0	101°	-21.8	-26.8		1310.1		+68	-92	1,192,935	579,835
Bm	79		341° 12'	..	5.0	88°	+2.8	-2.2		1334.7	Bm	+75	-26	1,192,942	579,901
708 TP 708	424		292° 14' 33"	..	12.6	94° 10'	-30.8	-43.4	}	1293.5	TP	+157	-393	1,193,024	579,534
708 TP 708	424				11.3	94° 20'	-32.0	-43.3		TP					

4-1,192,925 X=579,815
U.S.G.S. 31 JEM 1965
El. 1334.0

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4-27-85		B. Gtamp		K. Greenfield		6834		w.c. <i>ACB</i>		23		66			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ALABAMA		Piedmont S.E. - 7 1/2		ALA.		CLEBURNE								W. Cass. <i>dy</i>	
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
										1293.5					
	915		61° 40' 45"	-0.5	+9.6	89°	-16.0	-6.4	1287.0		BS	-441	-802		
	915				+6.6	89° 10'	-13.3	-6.7	1285.3		BS				
709	586		60° 40'		5.6	-		-5.6		1,281.4		+292	+508	1,192,875	579,240
710	256		-		10.8	-		-10.8		1,276.2		+127	+222	1,192,710	578,954
	0				5.1	-		-5.1		1,281.9	X	0	0	1,192,583	578,732
711	113		303° 30'	-0.5	12.5	95°	-9.8	-22.3		1,264.7		+62	-95	1,192,645	578,637
712	438		290° 40'		9.8	93° 30'	-26.7	-36.5		1,250.5		+151	-411	1,192,734	578,321
713	767		-		11.1	91° 30'	-24.5	-35.6		1,251.4		+264	-720	1,192,847	578,012
714	1096		-		13.3	91°	-19.1	-32.4		1,254.6		+378	-1029	1,192,961	577,703
715	1425		-		9.9	90° 30'	-12.4	-22.3		1,264.7		+491	-1338	1,193,074	577,394
716	1755		290° 50'		4.6	-		-4.6		1,282.4		+610	-1646	1,193,193	577,086
717	2083		290° 07' 02"		11.2	TH	+10.4	-0.8		1286.2	TP	+699	-1962	1,193,282	576,770
717	2083				11.1	TH 210°	+10.4	-0.7			TP				

IRVEY NOTES-HIGH RESOLUTION DATA

JEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4-27-85		B. Cotcamp		K. Greenfield		6834		WC KWA		23		67			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ALABAMA		PICO MOUNT SE 7 1/2'		ALA		CLEBURNE								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
										1286.2					
	497		91° 25' 26"	-0.5	3.6	89° 10'	-7.2	-3.6	1282.6		BS	+8	-497		
	497				+5.1	89° -	-8.7	-3.6		BS					
718	171		96° 40'	--	5.2	89° -	+3.0	-2.2		1280.4		-18	+170	1,193,272	576,443
TP	88		162° 07' 27"	--	5.9	89° -	+1.5	-4.4		1278.2	TP	-84	+288	1,193,206	576,301
	0				5.1	-		-5.1		1277.5	TP	0	0	1,193,290	576,273
719	134		333° 05'	-0.5	9.1	89° -	+2.3	-6.8		1275.8		+119	-62	1,193,409	576,211
720	464		- -	--	6.9	89° -	+8.1	+1.2		1283.8		+412	-214	1,193,702	576,059
721	794		- -	--	7.5	89° -	+13.9	+6.4		1289.0		+705	-366	1,193,995	575,907
722	1124		- -	--	4.0	89° -	+19.6	+15.6		1298.2		+998	-518	1,194,288	575,755
TP	1300		332° 53' 22"	-	2.7	89° -	+22.7	+20.0		1302.6	TP	+1152	-602	1,194,442	575,671
TP	1300				2.6	89° -	+22.7	+20.1			TP				
	1213		152° 55' 21"	-0.5	12.8	90° 20'	+7.1	+19.9	1322.5		BS	+1075	-562		
	1213				+12.7	89° 40'	+7.1	+19.8			BS				
723	1059		152° 55'	--	6.0	90° 50'	-15.4	-21.4		1301.1		-939	+490	1,194,578	575,599
724	730		153° -	--	18.0	90° 50'	-10.6	-25.6		1293.9		-648	+337	1,194,869	575,446
725	400		- -	--	6.6	90° 50'	-5.8	-12.4		1310.1		-355	+185	1,195,162	575,294
726	70.		- -	--	5.5	87° 50'	+2.6	-2.9		1319.6		-62	+32	1,195,455	575,141
	0				5.1	-		-5.1		1317.4	TP	0	0	1,195,517	575,109
727	258		311° 20' 1"	-0.5	12.2	89° 50'	+0.8	-11.4		1311.1		+169	-195	1,195,686	574,914
TP	369		309° 21' 39"	--	3.7	89° 50'	+1.1	-2.6		1319.9	TP	+332	-287	1,195,749	574,822

3-1193.190 x-576,290
TP - Inter. EL. 1274.0

4-1195.730 x-574,800
TP - Inter. EL. 1319.6

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4-26-85		B. Cotcamp		K. Greenfield		6834		CWC KWC		23		68			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ALABAMA		Piedmont - 7 1/2		ALA.		CLEBURNE								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									1322.5						
728	585		357 43 36	-0.5	6.6	89° 20'	+6.8	+0.2		1322.7	TP	+354	-466	1,195,871	574,643
728	585				8.2	89° 10'	+8.5	+0.3			TP				
	754		92° 20' 41"	--	+14.0	84°	+3.8	+17.8		1340.5	BS	+24	-754		
	754				+13.4	90° 20'	+4.4	+17.8			BS				
729	429		90° -	--	11.7	91° 40'	-12.5	-24.2		1316.3		+4	+429	1,195,877	574,318
730	100		85° 05'	--	7.3	88° 40'	+2.3	-5.0		1335.5		+9	+100	1,195,904	573,989
K	92		89° 13' 42"	--	6.3	88° 40'	+2.1	-4.2		1336.3	K	+2	+92	1,195,897	573,981
K	0				5.1	-		-5.1		1335.4	K	0	0	1,195,895	573,889
731	230		275 45	-0.5	6.6	93° 10'	-12.7	-19.3		1321.2		+21	-229	1,195,916	573,660
TP	501		275 26 05	--	8.1	93° 10'	-27.7	-35.8		1304.7	TP	+43	-498	1,195,938	573,391
TP	501				6.7	93° 20'	-29.1	-35.8			TP				
	254		126 37 26	--	+4.4	84° 30'	-24.3	-19.9		1284.8	BS	+149	-204		
	254				+3.6	84° 40'	-23.6	-20.0			BS				
732	199		127 37	--	6.7	83° 30'	+22.5	+15.9		1300.6		-120	+159	1,195,967	573,346
K	0				5.1	-		-5.1		1279.7	K	0	0	1,196,087	573,187
733	127		276 50	-0.5	7.0	94° -	-8.8	-15.8		1269.0		+14	-126	1,196,101	573,061
734	452		264 -	--	8.4	94° -	-31.5	-39.9		1244.9		-51	-449	1,196,036	572,738
TP	562		264 30 46	-	7.0	94° 40'	-45.7	-52.7		1232.1	TP	-58	-557	1,196,029	572,630
TP	562				8.7	94° 30'	-44.1	-52.8			TP				

If 1,195,880 x 573,985
7-Inter.

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
4-27-85		B. Cotamp		K. Greenfield		6834		WC		23	69					
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER						
ALABAMA		Piedmont S.E. - 7 1/2'		ALA.	CLERMONT					W. Cassidy						
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH +	EAST +	COORDINATES		REMARKS
												SOUTH -	WEST -	Y	X	
										1232.1						
	688		104° 39' 51"	-0.5	6.3	87° 10'	-36.0	-27.7	1204.4		BS	+168	-666			
	688				+6.3	87° 10'	-34.0	-27.7			BS					
735	474		106° 05'	--	6.6	88° 10'	+15.2	+8.6		1213.0		-79	+467	1,196,118	572,431	
736	144		98° 55'	--	8.8	91° 30'	-3.8	-12.6		1191.8		-21	+142	1,196,176	572,106	
π	0				5.1	-		-5.1		1199.3	π	0	0	1,196,197	571,964	
737	183		283° 25'	-0.5	6.6	91° 30'	-4.8	-11.4		1193.0		+41	-178	1,196,238	571,786	
TP	318		285° 25' 20"	--	11.1	91° 10'	-6.5	-17.6		1186.8	TP	+82	-307	1,196,279	571,657	
TP	318				12.0	91° -	-5.6	-17.6			TP					
	538		120° 15' 19"	--	+6.7	85° 30'	-42.2	-35.5	1151.3		BS	+266	-466			
	538				+5.1	85° 40'	-40.7	-35.6			BS					
738	344		120° 10'	--	9.7	85° 40'	+26.0	+16.3		1167.6		-170	+299	1,196,378	571,490	
739	69		188° 15'	--	7.5	85° 40'	+5.2	-2.3		1149.0		-68	-9	1,196,477	571,182	
#	87		206° 15' 18"	--	7.8	85° 40'	+6.6	-1.2		1150.1	#	-78	-38	1,196,467	571,153	# 1,196,425 X-571,140 creek crossing
π	0				5.1	-		-5.1		1146.2	π	0	0	1,196,545	571,191	
740	346		258° 50'	-0.5	8.8	88° 40'	+8.0	-0.9		1150.5		-70	-339	1,196,475	570,852	
741	669		255° 47' 57"	--	3.7	88° 40'	+15.6	+11.9		1163.2	TP	-170	-647	1,196,375	570,544	
741	669				3.6	271° 20'	+15.6	+12.0			TP					
	244		65° 31' 14"	--	+13.5	93° -	+12.8	+26.3	1189.5		BS	-103	-221			
	244				+9.3	94° -	+17.0	+26.3			BS					
π	0				5.1	-		-5.1		1184.4	π	0	0	1,196,272	570,323	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 4-27-85	INSTRUMENT MAN B. Cotcamp	ROD MAN K. Greenfield	PARTY NUMBER 6834	NOTES CHECKED BY uc	LINE NO. 23	PAGE 10
AREA ALA.	TOPO MAP Piedmont S.E.-7 1/2'	STATE ALA.	COUNTY Cleburne	TWP	RANGE	PPM
				PARTY MANAGER W. Cassidy		

STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH +	EAST +	COORDINATES		REMARKS
												SOUTH -	WEST -	Y	X	
												LAT.	DEP.			
									1189.5							
742	91		279° 20'	-0.5°	6.5	84° 30'	+8.7	+2.2		1191.7		+14	-90	1,196,286	570,233	
743	420		280° 30'	-	6.8	84° -	+43.9	+37.1		1226.6		+73	-414	1,196,345	569,909	
TP	458		280° 58' 42"	-0.5	12.6	83° 30'	+51.8	+39.2		1228.7	TP	+83	-447	1,196,355	569,876	ff 5,196,320 v-569,830 COUNTY LINE E. 1236.
TP	458				12.5	276° 30'	+51.8	+39.3			TP					

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
5-12-85		B. C. Camp		K. Greenfield		6834		KWB		23 ext	71				
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
ALA.		Piedmont SE. - 7 1/2'		G. ALA.							W. Cass. dy				
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
K. County Line -			From previous Survey	y - 1196.320	x - 569.830	EL. 1228.7				1228.7					y - 1196.320, x - 569.830 K. County Line EL 1228.7
	1132		138° 58' 02"	-0.5	+12.6	92° 24'	+147.9	+60.0	1288.7		BS	+847	-750		
	1132				+12.5	267° 36'	+47.7	+59.9			BS		-1		
744	846		139° -	--	6.4	92° 20'	-34.4	-40.8		1247.9		-634	+561	1,196,333	569,640
745	516		138° 20'	--	10.3	93° -	-27.0	-37.3		1251.4		-382	+346	1,196,785	569,425
746	334		138° 29' 30"	--	12.7	94° 30'	-26.2	-38.9		1249.8		-247	+223	1,196,920	569,302
746	190		134° 10'	--	10.1	96° 30'	-21.5	-31.6		1,257.1		-131	+137	1,197,036	569,216
TP	0				5.1	-		-5.1		1,283.6	TP	0	0	1,197,167	569,079
747	135		270° 20'	-0.5	6.6	87° 30'	+5.9	-0.7		1,288.0		+46	-127	1,197,213	568,952
748	463		282° 20'	--	8.2	85° 30'	+36.3	+28.1		1,316.8		+95	-453	1,197,262	568,626
TP	641		280° 31' 27"	--	8.8	86° -	+44.7	+35.9		1324.6	TP		-630	1,197,278	568,448
TP	641				6.9	86° 10'	+42.9	+36.0			TP		-1		
	531		80° 09' 10"	-0.5	+5.8	83° 30'	-60.1	-54.3		1270.3	BS	-95	-519		
	531				+4.2	83° 40'	-58.6	-54.4			BS		-1		
749	380		80° 10'	--	10.4	83° 40'	+41.9	+31.5		1,301.8		+68	+374	1,197,251	568,302
750	50		-	--	7.4	85° 40'	+3.8	-3.6		1,264.7		+9	+49	1,197,192	567,977
TP	0				5.1	-		-5.1		1,265.2	TP	0	0	1,197,183	567,928
751	269		231° 25'	-0.5	9.2	85° 40'	+20.3	+11.1		1,281.4		-170	-209	1,197,013	567,719
752	591		223° 46'	-	11.2	88° 10'	+18.9	+7.7		1,278.0		-431	-404	1,196,752	567,524
753	923		221° 20'	-	4.0	88° 10'	+29.5	+25.5		1,295.8		-698	-604	1,196,488	567,324

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
5-12-85		B. Cotcamp		K. Greenfield		6834		RSC		23 ext	72				
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
ALA.		Piedmont S.E. 7 1/2		ALA.		CALHOUN					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
									1,270.3						
TP	1043		220 09 04	-0.5	13.6	88° 10'	+33.4	+19.8	}	1,290.1	TP	-803	-665	1,196,380	567,262
TP	1043				13.5	271 50	+33.4	+19.9		TP			-		
	628		83 30 27	--	+6.7	85° -	-54.7	-48.0	}	1,242.1	BS	-76	-621		
	628				+4.9	85° 10'	-52.9	-48.0		BS			-		
754	401		81 40	--	6.7	86° -	+28.0	+21.3		1,263.4		+62	+396	1,196,366	567,036
755	72		77° -	-	7.0	88° -	+2.5	-4.5		1,237.6		+17	+70	1,196,321	566,710
π	0				5.1	-		-5.1		1,237.0	π	0	0	1,196,304	566,640
756	267		291 50	-0.5	10.3	88° -	+9.3	-1.0		1,241.1		+97	-249	1,196,401	566,391
757	596		290 30	--	8.5	87° -	+31.1	+22.6		1,264.7		+204	-560	1,196,508	566,080
TP	753		293 06 15	-	7.7	86 36	+44.7	+37.0	}	1,279.1	TP	+289	-694	1,196,593	565,945
TP	753				7.6	273 24	+44.7	+37.1		TP			-		
	507		155 31 56	-0.5	6.3	88° -	-17.7	-11.4	}	1,267.7	BS	+459	-214		
	507				+4.8	88° 10'	-16.2	-11.4		BS			-		
758	330		157 20	-	6.8	88° 10'	+10.6	+3.8		1,271.5		-303	+130	1,196,749	565,860
759	173		164 33 30	-	5.4	88° 10'	+5.5	+0.1		1,267.8		-166	+48	1,196,886	565,778
759	0				5.1	-		-5.1		1,262.6	π	0	0	1,197,052	565,730
760	330		356 25	-0.5	7.0	94 50	-27.8	-34.8		1,232.9		+329	-24	1,197,381	565,706
761	655		0° 30'	-	6.3	93° 50'	-43.8	-50.1		1,217.6		+650	±0	1,197,702	565,730
TP	811	809.0	3 55 35	-0.7	10.0	94° -	-56.6	-66.6	}	1,201.0	TP	+808	+46	1,197,860	565,775
TP	811				8.8	94° 06'	-56.0	-66.8		TP			-		

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-12-85		B. Cotcamp		K. Greenfield		6834		KUG		23 ext		73			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ALA.		Piedmont S.E. - 7 1/2		ALA.		CALHOUN								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
										1,201.0					
	425		202° 22' 05"	-0.7	+12.0	84° -	-44.4	-32.4	1,168.6		BS	+393	+156		
	425				+12.0	276° -	-44.4	-32.4		BS					
762	257		200° 20'	-	7.0	83° -	+31.3	+24.3		1,192.9		-242	-86	1,198,011 565,688	
X	0				5.1	-		-5.1		1,163.5	X	0	0	1,198,253 565,930	
763	70		340° 30'	-	6.8	98° -	-9.7	-16.5		1,152.1		+66	-24	1,198,319 565,906	
TP	176		339° 33' 23"	-	5.1	98° -	-24.5	-29.6	1,139.0		TP	+163	-63	1,198,416 565,866	
TP	176				4.6	98° 10'	-25.0	-29.6		TP					
	516		113° 25' 40"	-0.7	+4.2	84° -	-53.9	-47.7	1,091.3		BS	+198	-473		
	516				+4.7	84° 10'	-52.4	-47.7		BS					
764	319		117° -	-	6.4	86° 30'	+19.5	+13.1		1,104.4		-141	+286	1,198,423 565,678	
X	0				5.1	-		-5.1		1,086.2	X	0	0	1,198,614 565,392	
765	42		20° 20'	-	5.7	82° 30'	+5.5	-0.2		1,091.1		+40	+14	1,198,654 565,406	
TP	174		341° 36' 22"	-	7.8	83° 20'	+20.2	+12.4	1,103.7		TP	+163	-57	1,198,777 565,334	
TP	174				7.7	276° 40'	+20.2	+12.5		TP					
	228		159° 22' 46"	-0.7	+3.1	95° 30'	+21.9	+25.0	1,128.7		BS	+211	-83		
	228				+2.4	95° 40'	+22.5	+24.9		BS					
766	117		111° 10'	-	6.3	92° 20'	-4.8	-11.1		1,117.6		-41	+110	1,198,947 565,360	
X	0				5.1	-		-5.1		1,123.6	X	0	0	1,198,998 565,250	
767	210		291° 50'	-	6.2	92° 20'	-8.5	-14.7		1,114.0		+76	-196	1,199,064 565,054	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
5-12-85		B. Cotcamp		K. Greenfield		6834		KUC		23 ext	74				
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
ALA.		Piedmont S.E. - 7 1/2'		ALA.		Calloway					W. Cassidy				
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									1,128.7						
TP	431		291 03 03	-0.7	8.0	93 -	-22.6	-30.6	}	1098.1	TP	+150	-404	1,199,138	564,845
TP	431				6.7	93 10	-23.8	-30.5		TP					
	808		183 19 23	-	+5.7	94 10	+58.7	+64.4	}	1,162.5	BS	+805	+37		
	808				+8.1	94 -	+56.4	+64.5		BS					
768	660		183 50	-	5.8	95 -	-57.5	-63.3		1,099.2		-659	-36	1,199,254	564,845
769	343		181 20	-	8.1	98 -	-47.7	-55.8		1,106.7		-313	-4	1,199,600	564,538
770	19		213 -	-	7.9	93 -	-1.0	-8.9		1,153.6		-16	-10	1,199,279	564,871
K	0				5.1	-		-5.1		1,157.4	K	0	0	1,199,943	564,881
771	302		2 26 58	-0.7	11.9	87 20	+14.0	+2.1	}	1,164.6	TP	+302	+9	1,200,245	564,889
771	302				11.8	72 40	+14.0	+2.2		TP					
	403		171 43 52	-	+1.4	86 30	-24.6	-23.2	}	1,141.4	BS	+397	-63		
	403				+1.3	273 30	-24.6	-23.3		BS					
772	84		176 10	-	7.0	89 30	+0.7	-6.3		1,135.1		-84	+7	1,200,558	564,833
K	0				5.1	-		-5.1		1,136.3	K	0	0	1,200,642	564,826
773	254		52 50	-0.7	7.9	88 -	+8.9	+1.0		1,142.4		+156	+201	1,200,798	565,027
TP	319		51 37 09	-	11.4	88 40	+7.4	-4.0	}	1,137.4	TP	+201	+248	1,200,843	565,079
TP	319				10.5	88 50	+6.5	-4.0		TP					
	458		195 89 51	-	+4.1	86 -	-31.9	-27.8	}	1,109.6	BS	+441	+118		
	458				+2.8	86 10	-30.6	-27.8		BS					

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-12-85		B. Cotcamp		K. Greenfield		6834		KWB		23 ext		75			
AREA		TOPOG MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ALABAMA		Piedmont S.E.		ALA.		Calhoun								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
774	200		196° 20'	-0.7	5.9	87° 40'	+8.1	+2.2	1,109.6						
π	0				5.1	-		-5.1		1,104.5	π	0	0	1,201,294	565,192
775	108		309° 02' 28"	-	5.7	93° 20'	-6.3	-12.0		1,097.6	TP	+67	-85	1,201,351	565,107
775	108				5.4	93° 30'	-6.6	-12.0			TP				
	102		63° 46' 26"	-	+3.0	87°	-5.3	-2.3	1,095.3		BS	-46	-91		
	102				+4.7	86°	-7.1	-2.4			BS				
π	0				5.1	-		-5.1		1,090.2	π	0	0	1,201,305	565,016
776	218	217.2	194° 13' 14"	-0.7	6.8	94° 50'	-18.4	-25.2		1,070.1	TP	-211	-51	1,201,094	564,965
776	218				6.2	95°	-19.0	-25.2			TP				
	290	288.9	82° 52' 59"	-	+1.3	85°	-25.3	-24.0	1,046.1		BS	-39	-286		
	290				+6.4	84°	-30.3	-23.9			BS				
π	0				5.1	-		-5.1		1,041.0	π	0	0	1,201,055	564,679
777	20		198° 30'	-0.7	6.8	91° 40'	-0.6	-7.4		1,038.7		-19	-6	1,201,036	564,673
778	275		277° 14'	-	7.8	97° 40'	-36.7	-44.5		1,001.6		+31	-273	1,201,086	564,406
TP	425	422.4	275° 11' 58"	-	6.1	96° 20'	-46.9	-53.0		993.1	TP	+33	-421	1,201,088	564,258
TP	425				6.0	263° 40'	-46.9	-52.9			TP				
	263		98° 57' 27"	-	+4.3	88° 30'	-6.9	-2.6	990.5		BS	+38	-260		
	263				+5.1	88° 20'	-7.6	-2.5			BS				
779	133		131° 50'	-	7.6	-		-7.6		982.9		-87	+100	1,201,039	564,098
π	0				5.1	-		-5.1		985.4	π	0	0	1,201,126	563,998

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
5-12-85		B. Cotcamp		K. Greenfield		6834		KWK		23 ext	76			
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER			
ALA.		JACKSONVILLE East		ALA.		CALHOUN					W. Cassidy			
STATION NO.	SLOPE DISTANCE	PLOTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									990.5					
780	195		347 -	-0.7	8.4	-		-8.4		982.1		+189	-46	1,201,315 563,952
781	478		331 10 47	--	4.2	90 12'	-1.7	-5.9		984.6	TP	+416	-236	1,201,542 563,762
781	478				4.1	269 48'	-1.7	-5.8			TP			
	162	160.8	124 09 45	--	4.9	83 -	-19.7	-14.8	969.8		BS	+89	-134	
	162				4.4	83 10	-19.3	-14.9			BS			
X	0				5.1	-		-5.1		964.7	X	0	0	1,201,631 563,628
782	170		331 50	-0.7	8.6	94 20	-12.8	-21.4		948.4		+149	-82	1,201,780 563,546
783	497		334 30	--	6.6	90 20	-2.9	-9.5		960.3		+446	-219	1,202,077 563,409
TP	588		333 23 20	--	8.1	90 20	-3.4	-11.5		958.3	TP	+522	-270	1,202,153 563,358
TP	588				6.4	90 30	-5.1	-11.5			TP			
	478		120 42 31	-0.7	2.5	92 30'	+20.8	+23.3	981.6		BS	+239	-414	
	478				3.9	92 20'	+19.4	+23.2			BS			
784	244		117 10	--	11.1	92 20	-9.9	-21.0		960.6		-109	+218	1,202,283 563,162
X	0				5.1	-		-5.1		976.5	X	0	0	1,202,372 562,944
785	78		304 55	--	6.6	86 20	+5.0	-1.6		980.0		+44	-65	1,202,436 562,879
786	379	378.3	333 38 17	--	14.7	86 24'	+23.8	+9.1		990.7	TP	+337	-172	1,202,729 562,772
786	379				14.9	86 22'	+24.0	+9.1			TP			
	626	625.1	84 26 14	-0.5	6.4	87 -	-32.7	-26.3	964.4		BS	-66	-622	
	626				6.3	273 -	-32.7	-26.4			BS			

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
5-12-85		B. Cotamp		K. Greenfield		6834		RUB		23 ext.		77				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
ALABAMA		Jacksonville East		ALA.		CALHOUN								W. Cassidy		
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
									964.4							
787	330		76° 25'	-0.5	7.7	89°	+5.8	-1.9		962.5		+80	+320	1,202,743	562,470	
788	0				5.1	-		-5.1		959.3	TP	0	0	1,202,663	562,150	
789	330		250 20	--	5.3	96° 20'	-36.4	-41.7		972.7		-114	-310	1,202,549	561,840	
790	660		- -	--	12.0	96° 20'	-72.8	-84.8		879.6		-228	-620	1,202,455	561,530	
791	990		250 05	--	8.0	97°	-120.7	-129.7		835.7		-345	-928	1,202,318	561,222	
IF	1021	1013.4	249° 20' 30"	--	6.3	97°	-124.4	-130.7		833.7		-366	-945	1,202,297	561,205	IF - 1,202,315 x - 561,220 T - Inter. EL. 834.0
TP	1124	1117.1	249° 00' 20"	--	10.7	96° 20'	-124.0	-134.7	-134.6	829.8	TP	-409	-1039	1,202,254	561,111	
TP	1124				7.3	96° 30'	-127.2	-134.5			TP					
	1182		33° 31' 55"	-0.5	3.1	89° 20'	-13.7	-10.6			BS	-991	-644			
	1182			+	3.0	270° 40'	-13.9	-10.7	819.1		BS					
792	990		32 55	--	6.7	89° 20'	+11.5	+4.8		823.9		+836	+531	1,202,099	560,998	
793	660		- -	--	10.0	89° 20'	+7.7	-2.3		816.8		+557	+354	1,201,820	560,821	
794	330		31 55	--	10.3	89° 20'	+3.8	-6.5		812.6		+282	+172	1,201,545	560,639	
795	0				5.1	-		-5.1		814.0	TP	0	0	1,201,263	560,467	
796	330		215 30	-0.5	5.8	91° 20'	-7.7	-13.5		805.6		-270	-189	1,200,993	560,278	
TP	449		216° 24' 32"	--	7.1	91° 30'	-11.8	-18.9		800.2	TP	-364	-263	1,200,899	560,204	
TP	449				7.0	218° 30'	-11.8	-18.8			TP					
	164		94° 34' 44"	--	+3.6	87°	-8.6	-5.0	795.2		BS	+12	-163			
	164				+6.5	86°	-11.4	-4.9			BS					
TP	0				5.1	-		-5.1		790.1	TP	0	0	1,200,911	560,041	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-12-85		B. Cotcamp		K. Greenfield		6834		XK		23 ext.		78			
AREA		TQPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ALABAMA		Jacksonville East		ALA.		CALHOUN								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									795.2						
797	58		297° 40'	-0.5°	6.0	-		-6.0		789.2		+26	-52	1200937	559,989
798	388		296° 20'	-	7.2	-		-7.2		788.0		+169	-349	1201080	559,692
TP	494		293° 45' 48"	-	5.3	90° 40'	-5.7	-11.0			TP	+195	-454	1201,106	559,587
TP	494				3.9	90° 50'	-7.2	-11.1		784.1	TP				
	419	418.4	109° 19' 29"	-0.5°	12.4	87° -	-21.9	-9.5			BS	+135	-396		
	419				+11.1	87° 10'	-20.7	-9.6	774.5		BS				
799	198		110° 05'	-	5.0	87° -	+10.3	-5.3		769.2		-66	+187	1201,175	559,378
X	0				5.1	-		-5.1		769.4	X	0	0	1201,241	559,191
800	130		259° 25'	-	8.1	91° 30'	-3.4	-11.5		763.0		-25	-128	1201,216	559,063
IF	268		262° 32' 02"	-	7.0	91° 30'	-7.0	-14.0		760.5	IF	-37	-265	1201,204	558,926
801	457		262° 30'	-	6.2	91° -	-8.0	-14.2		760.3		-64	-453	1201,177	558,738
TP	611		261° 08' 36"	-	1.1	90° 52'	-9.2	-16.3		764.2	TP	-99	-603	1201,142	558,588
TP	611				1.0	269° 08'	-9.2	-16.2			TP				
	504		65° 58' 52"	-0.5°	5.9	92° 30'	+22.0	+27.9	792.1		BS	-209	-458		
	504				+7.4	92° 20'	+20.5	+27.9			BS				
802	330		65° 14'	-	7.3	91° 40'	-9.6	-16.9		775.2		+141	+298	1201,074	558,428
803	0				5.1	-		-5.1		787.0	X	0	0	1200,933	558,130
TP	300		247° 30' 40"	-	2.7	92° 30'	-13.1	-15.8		776.3	TP	-117	-276	1200,816	557,854
TP	300				1.8	92° 40'	-13.9	-15.7			TP				

4-1201,220x - 559,070
IF T-Inter. EL. 760.0

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-13-85		B. Catcamp		K. Greenfield		6834		KLN		23 ext.		79			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ALABAMA		JACKSONVILLE East		ALA.		CALHOUN								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
										776.3					
	354	353.3	82 42 45	-0.5	+5.0	86 30	-21.6	-16.6	759.7		BS	-48	-350		
	354				+6.1	86 20	-22.6	-16.5			BS				
804	327		82 40	--	3.9	86 30	+20.0	+16.1		775.8		+45	+324	1200,813 557,828	
TP	0				5.1	-		-5.1		754.6	X	0	0	1200,268 557,504	
805	57		20 05	--	6.3	90 30	-0.5	-6.8		752.9		+54	+19	1200,522 557,523	
806	357		357 20	--	10.8	91 30	-9.3	-20.1		739.6		+356	-20	1,201,124 557,484	
807	590		328 02	-0.5	12.3	91 30	-15.4	-27.7		732.0		+498	-317	1,201,266 557,187	
808	885		316 06	--	5.2	91 30	-23.2	-28.4		731.3		+632	-619	1,201,400 556,885	
TP	1098		307 18 04	--	5.2	91 04	-20.4	-25.6	(25.5)	734.2	TP	+658	-879	1,201,426 556,625 IC	
TP	1098				5.0	268 56	-20.4	-25.4			TP				
	1058		92 11 51	-0.5	+4.8	-		+4.8			BS	+31	-1058		
	1058				+4.7	270 -		+4.7		738.9	BS				
809	990		92 02	--	5.7	-		-5.7		733.2		-26	+990	1201,431 556,557	
810	660		- -	--	10.3	-		-10.3		728.6		-18	+660	1,201,439 556,227	
811	330		- -	--	9.8	-		-9.8		729.1		-9	+330	1,201,448 555,897	
812	0				5.1	-		-5.1		733.8	X	0	0	1201,457 555,567	
813	330		270 50	-0.5	5.2	TH	+11.7	-3.5		735.4		+2	-330	1201,459 555,237	
814	660		- -	--	6.5	89 20	+7.7	+1.2		740.1		+4	-660	1,201,461 554,907	
TP	831		272 25 18	--	3.9	89 10	+12.1	+8.2		747.1	TP	+28	-530	1,201,485 554,737	
TP	831				3.8	270 50	+12.1	+8.3			TP				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
5-13-85		B. Cotcamp		K. Greenfield		6834		KUB		23 ext	80			
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER			
ALABAMA		Jacksonville East		ALA.		CALHOUN					W. Cassity			
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS A TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									747.1					
	334	335.4	140° 58' 16"	-05°	5.0	93° 30'	+20.5	+25.5	772.5		BS	+259	-213	
	334				4.9	266° 30'	+20.5	+25.4		BS				
815	162		144° 20'	--	6.8	93° 50'	-10.8	-17.6	754.9			-131	+96	1,201,613 554,120
T	0				5.1	-		-5.1	767.4		A	0	0	1,201,744 554,524
816	173		350° 50'	--	6.8	87° 20'	+8.0	+1.2	773.7			+171	-29	1,201,915 554,495
817	500		343° 10'	--	8.5	89° -	+8.7	+0.2	772.7			+477	-149	1,202,221 554,375
TP	651		348° 41' 40"	--	13.6	88° 40'	+15.1	+1.5	774.0		TP	+637	-133	1,202,391 554,391
TP	651				14.8	88° 34'	+16.3	+1.5		TP				
	1690		115° 27' 40"	-05°	14.6	91° 22'	+40.3	+54.9	828.9		BS	+713	-1532	
	1690				13.5	268° 36'	+41.2	+54.8		BS				
818	1465		114° 25'	--	6.6	92° 20'	-59.6	-66.2	762.7			-594	+1339	1,202,500 554,198
819	1145		113° 15'	--	12.0	92° 30'	-44.9	-61.9	767.0			-443	+1056	1,202,651 553,915
820	817		112° 40'	--	11.0	92° 50'	-40.3	-51.3	777.6			-308	+757	1,202,786 553,616
821	491		113° 20'	-	11.7	93° 30'	-29.9	-41.6	787.3			-191	+453	1,202,903 553,312
822	173		127° 40'	-	11.3	93° 30'	-10.5	-21.8	807.1			-105	+138	1,202,989 552,997
T	0				5.1	-		-5.1	823.8		A	0	0	1,203,094 552,859
TP	50		290° 55' 34"	-05°	4.1	88° -	+1.7	-2.4	826.5		TP	+17	-47	1,203,111 552,812
823	121		244° 10'	-	8.6	88° -	+4.2	-4.4	824.5			-54	-108	1,203,040 552,751
824	444		228° 45'	-	5.0	-		-5.0	823.9			-296	-331	1,202,798 552,528
825	773		230° 20'	-	5.2	-		-5.2	823.7			-499	-591	1,202,595 552,268

g-1,203,120 x-552,835
 TP T - Inter. EL. 825.0

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-13-85		B. Cotcamp		K. Greenfield		6834		KVB		23 ext.		81			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ALABAMA		Jacksonville East		ALA.		CALHOUN								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									828.9						
826	1102		231 -	-0.5	5.3	-		-5.3		823.6		-701	-850	1202,393	552,009
827	1430		229 28	--	6.4	-		-6.4		822.5		-939	-1079	1202,155	551,780
TP	1503		229 02 25	--	6.1	-		-6.1		822.8	TP	-995	-1126	1202099	551,733
TP	1503				6.0	270 -		-6.0			TP				
	1149		31 53 36	-0.5	+13.5	88 54	-22.0	-8.5	814.3		BS	-981	-598		
	1149				+13.4	271 06	-22.0	-8.6			BS				
828	894		31 40	--	8.7	88 50	+18.2	+9.5		823.8		+765	+463	1201,883	551,598
829	564		--	--	9.8	88 10	+18.0	+8.2		822.5		+483	+292	1201,601	551,427
830	234		--	--	6.3	87 40	+9.5	+3.2		817.5		+200	+121	1201,318	551,256
TP	0				5.1	-		-5.1		809.2	TP	0	0	1201,118	551,135
831	107		244 25	-0.5	6.0	92 10	-4.0	-10.0		807.3		-47	-96	1201,071	551,039
832	437		241 45	--	10.9	92 30	-19.0	-29.9		784.4		-210	-383	1200,908	550,752
833	767		243 15	--	8.8	92 20	-31.2	-40.0		774.3		-351	-682	1200,767	550,453
834	1097		243 40	--	6.0	91 44	-33.2	-39.2		775.1		-495	-979	1200,623	550,156
TP	1247		242 29 16		1.5	91 34	-34.1	-35.6		778.7	TP	-585	-1101	1200,533	550,034
TP	1247				1.4	268 26	-34.1	-35.5			TP				
	316		64 44 24	-0.5	+7.1	90 40	+3.7	+10.9	789.5		BS	-137	-285		
	316				+7.0	269 20	+3.7	+10.7			BS				
835	142		68 30	--	7.0	91 -	-2.5	-9.5		780.0		+53	+132	1200,449	549,881
TP	0				5.1	-		-5.1		784.4	TP	0	0	1200,396	549,779

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-13-85		B. Cotamp		K. Greenfield		6834		XUG		23 ext.		82			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ALABAMA		Jacksonville East		ALA.		CALHOUN								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									789.5						
836	188		271° 25'	-0.5	5.7	86° 20'	+12.0	+6.3		795.8		+3	-188	1,200,399	549,561
837	514		269° 25'	--	5.8	87° 20'	+23.9	+16.1		807.6		-10	-514	1,200,386	549,235
TP	542	541.4	267° 39' 21"	--	6.2	87° 20'	+25.2	+19.0		808.5	TP	-27	-541	1,200,369	549,208
TP	542				7.8	87° 10'	+26.8	+19.0			TP				
	364		80° 33' 57"	-0.5+	10.2	91° -	+6.4	+16.6	825.1		BS	-63	-358		
	364			+14.8	BH		+11.8	+16.6			BS				
838	65		76° 05'	--	5.6	92° -	-2.3	-7.9		817.2		+16	+63	1,200,322	548,913
π	0				5.1	-		-5.1		820.0	π	0	0	1,200,306	548,850
839	274		292° 50'	--	9.8	88° 20'	+8.0	-1.8		823.3		+104	-253	1,200,410	548,597
Bm	244		283° 07' 07"	--	2.5	71°	+1.2	-1.3		823.8		+53	-238	1,200,359	548,612
840	604		293° 25'	--	5.8	88° 40'	+14.0	+8.2		833.3		+235	-556	1,200,541	548,294
841	932		291° 16' 39"	--	5.8	88° 50'	+19.0	+13.2		838.3	TP	+331	-871	1,200,637	547,979
841	932				8.5	88° 40'	+21.7	+13.2			TP				
	414		100° 49' 27"	-0.5+	5.4	91° -	+7.2	+12.6	850.9		BS	+74	-407		
	414			+9.0	90° 30'		+3.6	+12.6			BS				
842	84		96° -	--	6.0	91° -	-1.5	-7.5		843.4		-8	+84	1,200,703	547,656
π	0				5.1	-		-5.1		845.8	π	0	0	1,200,711	547,572
843	245		273° 55'	--	6.1	88° 20'	+7.1	+1.0		851.9		+15	-245	1,200,726	547,327
844	575		--	--	6.0	88° 20'	+16.7	+10.7		861.6		+34	-574	1,200,745	546,998
845	904		--	--	7.0	87° 30'	+39.4	+32.4		883.3		*54	-902	1,200,765	546,670

g-1,200,345 X-548,700
W.S.G.S. 1948 2'17" G.L.

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
5-13-85		B. Cotcamp		K. Greenfield		6834		KVA		23 ext		83				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
ALABAMA		JACKSONVILLE East		ALA.		CALHOUN								W. Cass. Dy		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
									850.9							
846	1237	1235.8	274 00 52	-0.5	4.8	87 30	+53.9	+49.1		900.0	TP	+76	-1234	1,200,787	546,338	ACROSS STA.
846	1237				8.4	87 20	+57.5	+49.1			TP					
	993	991.2	117 24 16	--	+6.0	86 30	-60.6	-54.6	845.4		BS	+449	-884			
	993				+3.1	86 40	-57.7	-54.6			BS					
847	660		118 00	-0.5	6.7	86 40	+38.4	+31.7		877.1		-305	+585	1,200,931	546,639	
848	330		118 -	--	7.4	87 40	+13.4	+6.0		851.4		-152	+293	1,201,084	545,747	
849	0				5.1	-	-	-5.1		840.3	X	0	0	1,201,236	545,454	
#	103		297 05 25	-0.5	5.7	92 20	-4.2	-9.9		835.5	#	+46	-92	1,201,282	545,362	1,201,285 X -545,370 #
850	330		299 10	--	6.4	91 -	-5.8	-12.2		833.2		+158	-290	1,201,394	545,164	
851	660		- -	--	6.1	-	-	-6.1		839.3		+317	-579	1,201,553	544,875	
TP	930		299 25 32	--	4.4	89 10	+13.5	+9.1		854.5	TP	+450	-814	1,201,686	544,640	
TP	930				4.3	270 50	+13.5	+9.2			TP					
	390		133 52 56	-0.5	+8.3	87 -	-6.8	+1.5	856.0		BS	+268	-283			
	390				+8.2	271 -	-6.8	+1.4			BS	-				
852	329		130 30	--	6.4	88 50	+6.7	+0.3		856.3		-211	+252	1,201,742	544,609	
853	0				5.1	-	-	-5.1		850.9	T	0	0	1,201,953	544,357	
854	325		278 - , -	-	5.2	93 50	-21.7	-26.9		829.1		+42	-322	1,201,995	544,035	
TP	461		270 25 56	-	6.0	93 50	+30.8	-36.8		819.2	TP	-1	-460	1,201,951	543,897	
TP	461				4.7	94 -	-32.2	-36.9			TP	-				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	5-15-85	INSTRUMENT MAKE	B. Cotcamp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	RUC	LINE NO.	23 ext.	PAGE	84
AREA	ALABAMA	TOPO MAP	Jacksonville East	STATE	ALA.	COUNTY	Calhoun	TWP		RANGE	PPM	PARTY MANAGER	W. Cassidy

STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
										819.2				
	1993	1992.2	79° 29' 21"	-0.5	11.0	88° 24'	-55.6	-47.6	774.6		BS	-381	-1956	
	1993				10.7	271° 36'	-55.6	-47.9		BS	-1			
855	1841		82° 27'	--	9.9	88° 40'	+42.8	+32.9		807.5	#	+258	+1823	1201,827 543,764
#	1832		83° 06' 32"	--	10.9	88° 40'	+42.6	+31.7		806.3	#	-236	+1816	1201,805 543,757 Hwy 1, 201,820 x - 543,745 Hwy 4, 201,806 x - 543,745
856	1582		89° 05'	--	7.1	89° 10'	+23.0	+15.9		790.5		+39	+1582	1201,608 543,523
857	1260		91° 25'	--	6.7	89° 30'	+11.0	+4.3		778.9		-20	+1260	1201,549 543,201
858	930		--	-0.5	10.8	89° 30'	+8.1	-2.7		771.9		-15	+930	1201,554 542,871
859	600		--	--	10.7	89° 30'	+5.2	-5.5		769.1		-10	+600	1201,529 542,541
860	270		--	--	7.4	89° 30'	+2.4	-5.0		769.6		-4	+270	1201,535 542,211
#	0				5.1	-		-5.1		769.5	#	0	0	1201,569 541,941
861	59		271° 15'	-0.5	5.4	89° 30'	+0.5	-4.9		769.7		+1	-59	1201,570 541,882
862	389		--	--	8.9	89° -	+6.8	-2.1		772.5		+5	-389	1201,574 541,552
863	719		--	--	9.2	89° -	+12.5	+3.3		777.9		+9	-719	1201,578 541,222
864	1049		--	--	9.1	88° 40'	+24.4	+15.3		789.9		+14	-1049	1201,553 540,892
#	1379		--	--	5.9	88° 28'	+36.9	+31.0		805.6		+18	-1379	1201,557 540,562
#	1606		270° 56' 45"	-0.5	0.5	88° 28'	+43.0	+42.5		817.1	#	+12	-1605	1201,551 540,336 Hwy 1, 201,595 x - 540,325 Hwy 7 - Int'l.
866	1709		271° 11'	--	1.3	88° 28'	+45.7	+44.4		819.0		+20	-1709	1201,559 540,232
867	2039		--	--	5.0	88° 28'	+54.5	+49.5		824.1		+24	-2039	1201,563 539,902
868	2369		--	--	7.0	88° 28'	+63.4	+56.4		831.0		+28	-2369	1201,567 539,572
869	2699		--	--	7.1	88° 24'	+75.3	+68.2		842.8		+32	-2699	1201,571 539,242

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	5-13-85	INSTRUMENT MAN	B. Cotcamp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	KUC	LINE NO.	23 ext.	PAGE	85
AREA	ALABAMA	TOPO MAP	JACKSONVILLE EAST	STATE	ALA.	COUNTY	CALHOUN	TWP	RANGE	PPM	PARTY MANAGER	W. Cassidy	

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									774.6					
TP	2770	2768.9	270° 33' 15"	-0.5	5.7	88° 24'	+77.3	+71.6			TP	+3	-2769	1,201,541 539,172
TP	2770				5.4	271° 36'	+77.3	+71.9	+71.7	846.3	TP	-1		
	1117	1116.3	68° 51' 20"	--	+10.7	92° -'	+39.0	+49.7	896.0		BS	-412	-1038	
	1117				+7.5	92° 10'	+42.2	+49.7			BS	-1		
870	863		66° 50'	--	6.0	92° 26'	-35.1	-41.1		854.9		+346	+790	1,201,474 538,924
871	533		--	--	8.2	92° 20'	-21.7	-29.9		866.1		+214	+488	1,201,342 538,622
872	205		67° 40'	--	6.4	92° 20'	-8.3	-14.7		881.3		+80	+189	1,201,208 538,323
TP	0				5.1	-		-5.1		890.9	TP	0	0	1,201,128 538,134
873	131		270° 55'	-0.5	6.0	87° 20'	+6.1	+0.1		896.1		+1	-131	1,201,129 538,003
874	459		263° -'	--	7.4	87° 20'	+21.3	+13.9		909.9		-60	-455	1,201,068 537,679
TP	641	640.3	263° 20' 50"	--	4.9	87° 20'	+29.8	+24.9		920.9	TP	-80	-635	1,201,047 537,499
TP	641				3.1	87° 30'	+27.9	+24.8			TP	-1		
	1640	1638.2	96° 59' 35"	-0.5	4.8	92° 40'	+76.2	+81.0	1001.9		BS	+185	-1628	
	1640				4.7	267° 20'	+76.2	+80.9			BS	-1		
875	1489		96° 05'	--	7.1	92° 40'	-69.2	-76.3		925.6		-145	+1482	1,201,086 537,353
876	1159		95° 50'	--	10.1	92° 40'	-53.9	-64.0		937.9		-108	+1154	1,201,123 537,025
877	829		96° 20'	--	8.7	92° 40'	-36.5	-47.2		954.7		-84	+825	1,201,147 536,696
878	499		96° -'	--	10.4	92° 40'	-23.2	-33.6		968.3		-48	+497	1,201,183 536,368
879	170		91° 25'	--	10.0	92° 40'	-7.9	-17.9		984.0		-3	+170	1,201,228 536,041
TP	58		123° 17' 52"	--	5.9	93° 40'	-3.7	-9.6		992.3	TP	-31	+49	1,201,200 535,920

1,201,230 x-535,920
TT T-inter x-16

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
5-13-85		B. Cotcamp		K. Greenfield		6234		KLB		23 ext.		86				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
ALABAMA		JACKSONVILLE East		ALA.		CALHOUN								W. Cassidy		
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
π	0				5.1	-		-5.1	1,001.9		π	0	0	1,201,261	535,871	
880	165		301° 10'	-0.6	5.9	83°	+20.1	+14.2		1,016.1		+84	-142	1,201,345	535,729	
TP	281	279.5	299° 26' 31"	--	4.1	84°	+29.4	+25.3		1,027.2	TP	+135	-245	1,201,395	535,625	
TP	281				2.5	84° 20'	+27.7	+25.2			TP	-	-			
	142		140° 35' 18"	-0.6	+10.7	94°	+9.9	+20.6	1,047.8		BS	+108	-91			
	142				+8.2	95°	+12.4	+20.6			BS	-	-			
π	0				5.1	-		-5.1		1,042.7	π	0	0	1,201,502	535,533	
881	74		337° 35'	--	5.5	83° 30'	+8.2	+2.7		1,050.5		+68	-29	1,201,570	535,504	
882	387	385.4	305° 39' 21"	--	1.3	84° 50'	+34.9	+33.6		1,081.4	TP	+221	-316	1,201,722	535,216	
882	387				0.2	85°	+33.7	+33.5			TP	-	-			
	530	527.1	170° 18' 12"	-0.6	+2.2	96°	+55.4	+57.6	1,139.0		BS	+519	-94			
	530				+11.4	95°	+46.2	+57.6			BS	-	-			
883	193		166° 10'	--	5.0	96°	-20.2	-25.2		1,113.8		-187	+48	1,202,053	535,169	
π	0				5.1	-		-5.1		1,133.9	π	0	0	1,202,240	535,121	
884	129		320° 55'	--	7.0	84° 20'	+12.7	+5.7		1,144.7		+99	-82	1,202,339	535,039	
TP	333	331.7	315° 12' 46"	--	3.6	85°	+29.0	+25.4		1,164.4	TP	+233	-236	1,202,472	534,984	
TP	333				5.6	84° 40'	+31.0	+25.4			TP	-	-			
	228	227.4	160° 33' 20"	-0.6	+13.1	94°	+15.9	+29.0	1,193.4		BS	+214	-78			
	228				+9.2	95°	+19.9	+29.1			BS	-	-			
885	101		157° 30'	--	6.2	95°	-8.8	-15.0		1,178.4		-93	+40	1,202,592	534,845	
π	0				5.1	-		-5.1		1,188.3	π	0	0	1,202,685	534,805	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-13-85		B. Cotnam		K. Greenfield		6834		KVG		23 ext.		87			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ALABAMA		Jacksonville East		ALA.		CALHOUN								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									1,193.4						
886	212		311° -	-0.6	5.0	87° -	+11.1	+6.1		1,199.5		+137	-161	1,202,822	534,644
TP	240		314° 27' 10"	--	6.1	87° -	+12.5	+6.4		1,199.8	TP	+166	-173	1,202,850	534,631
TP	240				6.0	273° -	+12.5	+6.5			TP	-1	-1		
	428		172° 08' 58"	-0.6	7.5	-		+9.5		1,209.3	BS	+423	-63		
	428			+	7.4	BH	+2.1	+9.5			BS	-1	-1		
887	129		168° 30'	-	7.1	89° 10'	+1.9	-5.2		1,204.1		-126	+27	1,203,146	534,594
π	0				5.1	-		-5.1		1,204.2	π	0	0	1,203,272	534,567
888	201		347° 20'	--	5.0	89° 10'	+2.9	-2.1		1,207.2		+196	-46	1,203,468	534,521
889	529		345° -	--	6.3	88° 10'	+16.9	+10.6		1,219.9		+510	-142	1,203,782	534,425
TP	558		345° 06' 50"	-	5.1	88° 20'	+16.2	+11.1		1,230.4	TP	+538	-149	1,203,909	534,417
TP	558				3.5	88° 30'	+14.6	+11.1			TP	-1	-1		
	225		192° 19' 24"	-0.6	14.1	-		+14.1		1,234.5	BS	+220	+46		
	225			+	12.9	BH	+1.1	+14.0			BS	-1	-1		
π	0				5.1	-		-5.1		1,229.4	π	0	0	1,204,028	534,462
890	64		21° 05'	--	6.2	98° 20'	-9.3	-15.5		1,219.0		+60	+22	1,204,088	534,484
IF	298		338° 49' 52"	-	7.6	96° 40'	-34.6	-42.2		1,192.3	IF	+275	-110	1,204,303	534,352
891	369		340° 10'	-	7.0	95° 30'	-35.4	-42.4		1,192.1		+346	-129	1,204,374	534,333
TP	644	643.4	339° 18' 56"	-	2.1	92° 32'	-28.4	30.5		1,204.0	TP	+599	-234	1,204,626	534,227
TP	644				2.0	267° 28'	-28.4	-30.4			TP	-1	-1		

1/3 - 1,204,305 X - 534,370
 1/4 - Inter. FL. 1194.0

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-13-85		B. Lotcamp		K. Greenfield		6834		KWB		23 ext.		88			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ALABAMA		Jacksonville East		ALA.		CALHOUN								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									1204.0						
	98		121° 51' 16"	-0.6	14.2	-		+14.2	1,218.2		BS	+51	-84		
	98				+12.5	91°	+1.7	+14.2			BS		-1		
892	58		97° 25'	-	9.1	-		-9.1		1,209.1		-7	+58	1,204,670	534,200
	0				5.1	-		-5.1		1,213.1	X	0	0	1,204,677	534,142
893	264		223° 30'	-	5.2	88°	+9.2	+4.0		1,222.2		-193	-180	1,204,484	533,962
TP	290		219° 46' 29"	-	5.4	88°	+10.1	+4.7		1,222.9	TP	-225	-183	1,204,452	533,958
TP	290				4.5	88° 16'	+9.3	+4.8			TP		-1		
	362		63° 53' 22"	-0.6	5.6	92°	+12.6	+18.2	1,241.1		BS	-163	-323		
	362				+6.6	91° 50'	+11.6	+18.2			BS		-1		
894	213		115° 05'	-	6.8	89° 10'	+3.1	-3.7		1,237.4		-88	+194	1,204,201	533,828
	0				5.1	-		-5.1		1,236.0	X	0	0	1,204,289	533,634
895	124		335° 05'	-	5.7	89° 16'	+1.8	-3.9		1,237.2		+112	-53	1,204,401	533,581
TP	372		334° 26' 37"	-	5.1	89°	+6.5	+1.4		1,242.5	TP	+334	-164	1,204,623	533,469
TP	372				6.2	88° 50'	+7.6	+1.4			TP		-1		
	438		135° 35' 52"	-0.6	7.2	89° 34'	-3.3	+3.9	1,246.4		BS	+310	-310		
	438				+7.1	270° 20'	-3.3	+3.8			BS		-1		
896	356		134° 55'	-	6.0	89° 30'	+3.1	-2.9		1,243.5		-249	+255	1,204,684	533,413
897	33		133° 50'	-	5.2	87° 40'	+1.3	-3.9		1,242.5		-23	+24	1,204,910	533,182
	0				5.1	-		-5.1		1,241.3	X	0	0	1,204,933	533,158
898	298		338° 50'	-0.6	5.3	92° 10'	-11.3	-16.6		1,229.8		+277	-111	1,205,210	533,047

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-12-85		B. Cotcamp		K. Greenfield		6834		KUG		23 ext.		89			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ALA.		Jacksonville East		ALA.		CALHOUN								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									1246.4						
TP	406		337° 16' 03"	-0.6	7.2	91° 40'	-11.8	-19.0		1,227.4	TP	+373	-161	1,205,306	532,994
TP	406				6.1	91° 50'	-13.0	-19.1			TP		-1		
	257		24° 21' 51"	-	+3.9	89°	-4.5	-0.6	1,226.8		BS	-235	-104		
	257				+3.8	271°	-4.5	-0.7			BS		-1		
899	147		358° 45'	-	6.0	87° 30'	+6.4	+0.4		1,227.2		+147	-5	1,205,218	532,886
π	0				5.1	-		-5.1		1,221.7	π	0	0	1,205,071	532,891
900	181		198° 10'	-0.6	11.0	90° 46'	-2.4	-13.4		1,213.4		-173	-55	1,204,898	532,836
901	510		193° 50'	-	5.7	92°	-17.8	-23.5		1,203.3		-496	-117	1,204,575	532,774
TP	542		193° 37' 35"	-	5.9	92° 06'	-19.8	-25.7		1,201.1	TP	-528	-122	1,204,543	532,768
TP	542				5.8	267° 54'	-19.8	-25.6			TP		-1		
	128		80° 31' 40"	-0.6	+1.6	89°	-2.2	-0.6	1,200.5		BS	-22	-126		
	128				+6.1	87°	-6.7	-0.6			BS		-1		
π	0				5.1	-		-5.1		1,195.4	π	0	0	1,204,521	532,641
902	182		278°	-	6.2	90° 30'	-1.6	-7.8		1,192.7		+23	-180	1,204,544	532,461
TP	400		273° 48' 37"	-	5.4	91°	-7.0	-12.4		1,188.1	TP	+22	-399	1,204,543	532,241
TP	400				6.5	90° 50'	-5.8	-12.3			TP		-1		
	296		110° 16' 26"	-0.6	+7.3	87°	-15.5	-8.2	1,179.9		BS	+100	-278		
	296				+12.5	86°	-20.6	-8.1			BS		-1		
903	184		105° 35'	-	8.0	87°	+9.6	+1.6		1,181.5		-48	+178	1,204,595	532,140
π	0				5.1	-		-5.1		1,174.8	π	0	0	1,204,643	531,962

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-13-85		B. Cotcamp		K. Greenfield		6834		KWG		23 ext.		90			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ALABAMA		Jacksonville East		ALA.		CALHOUN								L. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									1,179.9						
904	147		312° 20'	-0.6	5.0	91° 30'	-3.8	-8.8		1,171.1		+98	-110	1,204,741	531,852
TP	260		312° 20' 45"	--	2.7	91° 30'	-6.8	-9.5		1,170.4	TP	+173	-194	1,204,816	531,767
TP	260				3.5	91° 20'	-6.0	-9.5			TP		-1		
	187		35° 30' 51"	--	5.9	85° 50'	-73.6	-7.7		1,162.7	BS	-153	-107		
	187				5.4	86° -	-13.0	-7.6			BS		-1		
905	190		2° -	-0.6	6.5	87° 40'	+7.7	+1.2		1,163.9		+190	+5	1,204,853	531,664
906	41		277° 40'	--	5.6	90° 40'	-0.5	-6.1		1,156.6		+5	-41	1,204,668	531,618
π	0				5.1	-		-5.1		1,157.6	π	0	0	1,204,663	531,659
907	300		161° 40'	--	5.8	90° 40'	-3.5	-9.3		1,153.4		-284	+97	1,204,379	531,756
TP	351		159° 50' 28"	--	5.0	91° 10'	-7.1	-12.1		1,150.6	TP	-328	+124	1,204,335	531,782
TP	351				6.1	91° -	-6.1	-12.2			TP		-1		
	198		315° 39' 58"	-0.6	4.0	86° -	-13.8	-9.8		1,140.8	BS	-140	+140		
	198				3.4	86° 10'	-13.2	-9.8			BS		-1		
π	0				5.1	-		-5.1		1,135.7	π	0	0	1,204,195	531,921
908	78		133° 40'	--	7.3	91° 40'	-2.3	-9.6		1,131.2		-53	+57	1,204,142	531,978
TP	241		123° 12' 48"	--	7.5	91° 40'	-7.0	-14.5		1,126.3	TP	-130	+203	1,207,065	532,123
TP	241				6.8	91° 50'	-7.7	-14.5			TP		-1		
	333		11° 26' 04"	-	11.4	87° -	-17.4	-6.0		1,120.3	BS	-327	-63		
	333				5.6	88° -	-11.6	-6.0			BS		-1		
909	154		7° 35'	--	5.7	88° 20'	+4.5	-1.2		1,119.1		+153	+19	1,203,891	532,078

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-13-85		B. Cotcamp		K. Greenfield		6834		KWC		23 ext		91			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ALABAMA		Jacksonville East		ALA.		CALHOUN								W. CASS. dy	
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									1,120.3						
TP	0				5.1	-		-5.1		1,115.2	TP	0	0	1,203,738	532,059
910	171		179° 55'	-0.6	6.2	90° 20'	-1.0	-7.2		1,113.1		-171	+2	1,203,567	532,061
TP	314		178° 18' 16"	-	7.3	91° 20'	-7.3	-14.6		1,105.7	TP	-314	+13	1,203,424	532,071
TP	314				7.2	268° 40'	-7.3	-14.5			TP		-		
	258		29° 44' 35"	-	+5.9	88° 40'	-6.0	-0.1		1,105.6	BS	-225	-126		
	258				+6.7	88° 30'	-6.8	-0.1			BS		-		
911	72		10° 40'	-	5.5	88° 40'	+1.7	-3.8		1,101.8		+71	+13	1,203,270	531,957
TP	0				5.1	-		-5.1		1,100.5	TP	0	0	1,203,199	531,944
912	254		177° 25'	-0.6	5.5	92° 10'	-9.6	-15.1		1,090.5		-254	+14	1,202,945	531,958
TP	366		178° 15' 14"	-	8.9	92° 10'	-13.8	-22.7		1,082.9	TP	-365	+15	1,202,834	931,958
TP	366				7.8	92° 20'	-14.9	-22.7			TP		-		
	180		29° 54' 44"	-	+9.0	88° 36'	-4.4	+5.2		1,088.1	BS	-157	-88		
	180				+9.5	271° 24'	-4.4	+5.1			BS		-		
TP	0				5.1	-		-5.1		1,083.0	TP	0	0	1,202,677	531,869
913	60		289° 05'	-0.6	5.3	90° 40'	-0.7	-6.0		1,082.1		+19	-57	1,202,696	531,812
TP	287		294° 18' -	-	10.1	90° 50'	-4.2	-14.3		1,073.8	TP	+115	-263	1,202,792	531,605
TP	287				9.2	91° -	-5.0	-14.2			TP		-		
	146		20° 43' 17"	-	+5.9	88° -	-5.1	+0.8		1,074.6	BS	-137	-50		
	146				+8.5	87° -	-7.6	+0.9			BS		-		
914	59		5° 25'	-	5.8	87° -	+3.1	-2.7		1,071.9		+59	+5	1,202,714	531,559

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
5-13-85		B. Cotcamp		K. Greenfield		6834		KUG		23 ext		92				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
ALABAMA		Jacksonville East		ALA.		CALHOUN								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
π	0				5.1	-		-5.1	1,074.6	1069.5	π	0	0	1,202,655	531,554	
TP	189		194 10 14	-0.6	10.7	-		-10.7		1,063.9	TP	-184	-44	1,202,471	531,509	
TP	189				11.7	74	+0.9	-10.8			TP		-1			
	285		116 28 44	-	+4.3	88	-9.9	-5.6	1,058.3		BS	+124	-256			
	285				+6.7	87 30	-12.4	-5.7			BS		-1			
915	180		118 40	-	5.8	87 30	+7.8	+2.0		1,060.3		-85	+159	1,202,810	531,411	
π	0				5.1	-		-5.1		1,053.2	π	0	0	1,202,595	531,252	
916	160		341 -	-0.6	6.6	-		-6.6		1,051.7		+151	-54	1,202,746	531,198	
TP	372		344 03 32	-	11.4	-		-11.4		1,046.9	TP	+357	-106	1,202,952	531,145	
TP	372				9.6	84	-1.9	-11.5			TP		-1			
	201		185 23 54	-	+2.6	89	-3.5	-0.9	1,046.0		BS	+200	+17			
	201				+6.1	88	-7.0	-0.9			BS		-1			
917	81		181 05	-0.6	5.0	87	+7.2	-0.8		1,045.2		-81	-1	1,203,071	531,160	
π	0				5.1	-		-5.1		1,040.9	π	0	0	1,203,152	531,161	
918	222		249 05	-	6.1	92	-7.7	-13.8		1,032.2		-81	-207	1,203,071	530,954	
TP	288		245 48 22	-	3.9	92	-10.0	-13.9		1,032.1	TP	-121	-261	1,203,031	530,899	
TP	288				3.1	92 10	-10.9	-14.0			TP		-1			
	299		11 22 42	-0.6	+0.5			+0.5	1,032.6		BS	-294	-56			
	299				+2.0	74	-1.5	+0.5			BS		-1			
919	44		11 20	-	5.0	88	+1.5	-3.5		1,029.1		+43	+8	1,202,780	530,850	
π	0				5.1	-		-5.1		1,027.5	π	0	0	1,202,737	530,842	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	5-13-85	INSTRUMENT MAN	B. Cotcamp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	KWF	LINE NO.	23 ext	PAGE	93	
AREA	ALABAMA	TOPO MAP	Jacksonville East	STATE	ALA.	COUNTY	CALHOUN	TWP		RANGE		PPM	PARTY MANAGER	W. Cassidy

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS
												LAT.	DEP.	Y	X	
									1032.6							
TP	226		238° 46' 09"	-0.6	4.1	93° 20'	-73.1	-17.2		1,015.4	TP	-119	-192	1,202,648	530,649	
TP	226				4.0	266° 40'	-73.1	-17.1			TP		-1			
	296		122° 00' 46"	-	5.4	88° -	-10.3	-4.9	1,010.5		BS	+154	-252			
	296				4.6	88° 10'	-9.5	-4.9			BS		-1			
920	211		122° -	-	6.1	88° -	+7.4	+1.3		1,011.8		-110	+180	1,202,662	530,576	
π	0				5.1	-		-5.1		1,005.4	π	0	0	1,202,772	530,396	
921	128		357° 20'	-	5.8	91° -	-2.2	-8.0		1,002.5		+128	-7	1,202,900	530,389	
TP	393		355° 02' 28"	-	6.2	91° -	-6.9	-13.1		997.4	TP	+391	-38	1,203,163	530,357	
TP	393				5.0	91° 10'	-8.0	-13.0			TP		-1			
	569		43° 30' 32"	-0.6	11.3	87° -	-29.7	-18.4	979.0		BS	-416	-387			
	569				11.2	273° -	-29.7	-18.5			BS		-1			
922	560		43° 15'	-	5.4	87° 40'	+22.8	+17.4		996.4		+412	+379	1,203,159	530,348	
923	224		41° 40'	-	5.4	87° 40'	+9.1	+3.7		982.7		+169	+147	1,202,916	530,116	
π	0				5.1	-		-5.1		973.9	π	0	0	1,202,747	529,969	
924	128		285° 33' 31"	-0.6	4.8	91° 20'	-3.0	-7.8		971.2	TP	+33	-124	1,202,780	529,844	
924	128				5.2	91° 10'	-2.6	-7.8			TP		-1			
	251		139° 26' 34"	-	14.1	87° -	-13.1	+1.0	972.2		BS	+189	-165			
	251				13.4	87° 10'	-12.4	+1.0			BS		-1			
π	0				5.1	-		-5.1		967.1	π	0	0	1,202,769	529,678	
925	33		219° 10'	-	6.7	93° -	-1.7	-8.4		963.8		-26	-21	1,202,943	529,657	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
5-13-85		B. Cotcamp		K. Greenfield		6834		KW ^o		23 ext	94						
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER						
ALABAMA		Jacksonville East		ALA.		Calhoun					W. Cassidy						
STATION NO.	SLOPE DISTANCE	PLOTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	NORTH +	EAST +	COORDINATES		REMARKS	
												SOUTH -	WEST -	Y	X		
									972.2								
926	360		208° 30'	-0.6	5.9	93° -	-18.8	-24.7		947.5		-318	-168	1,202,651	529,510		
TP	411		208° 41' 18"	--	4.1	93° -	-21.5	-25.6		946.6	TP	-362	-193	1,202,607	529,484		
TP	411				4.0	267° -	-21.5	-25.5			TP		-1				
	98		110° 03' 54"	-	+4.3	88° -	-3.4	+0.9		947.5	BS	+33	-92				
	98				+6.0	87° -	-5.1	+0.9			BS		-1				
π	0				5.1	-		-5.1		942.4	π	0	0	1,202,640	529,391		
927	200		303° 46' 02"	-0.6	6.6	91° -	-3.5	-10.1		937.4	TP	+109	-167	1,202,749	529,224		
927	200				8.3	90° 30'	-1.7	-10.0			TP						
	400		109° 22' 03"	-	+5.0	88° -	-14.0	-9.0		928.4	BS	+129	-379				
	400				+2.7	88° 20'	-11.6	-8.9			BS						
928	72		99° -	-	5.0	88° 20'	+2.1	-2.9		925.5		-11	+71	1,202,869	528,916		
π	0				5.1	-		-5.1		923.3	π	0	0	1,202,878	528,845		
929	275		335° 35'	-0.6	13.7	91° 10'	-5.6	-19.3		909.1		+249	-116	1,203,127	528,729		
930	605			-	11.2	90° 30'	-5.3	-16.5		911.9		+548	-256	1,203,426	528,589		
931 TP 431	935		335° 57' 27"	-	5.2	90° 20'	-5.4	-10.6		917.8	TP	+850	-390	1,203,728	528,455		
931 TP 931	935				5.1	269° 40'	-5.4	-10.5			TP						
	564		168° 21' 04"	--	+7.6	91° -	+9.8	+17.4		935.2	BS	+551	-120				
	564				+6.0	91° 10'	+11.5	+17.5			BS						
932	234		168° 15'	-	7.5	-		-7.5		927.7		-229	+50	1,204,050	528,385		
π	0				5.1	-		-5.1		930.1	π	0	0	1,204,279	528,335		

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-13-85		B. Cotamp		K. Greenfield		6834		KWC		23 ext.		95			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ALABAMA		Jacksonville East		ALA.		CALHOUN								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									935.2						
933	96		7° 30'	-0.6	10.9	-		-10.9		924.3		+95	+12	1,204,374	528,347
934	392		5° 55'	--	6.6	91° 30'	-10.3	-16.3		918.9		+390	+36	1,204,669	528,371
TP	443		357° 43' 10"	-	9.6	91° 30'	-11.6	-21.2		914.0	TP	+442	-22	1,204,721	528,313
TP	443				9.5	268° 30'	-11.6	-21.1			TP				
	400	398.5	102° 17' 34"	-	+2.9	85° -	-34.9	-32.0	882.0		BS	+81	-390		
	400				+9.9	84° -	-41.8	-31.9			BS				
935	160		99° 15'	-0.6	5.1	84° 40'	+14.9	+9.8		891.8		-24	+158	1,204,778	528,081
X	0				5.1	-		-5.1		876.9	X	0	6	1,204,802	527,923
936	170		298° 55'	--	6.8	92° 40'	-7.9	-14.7		867.3		+81	-150	1,204,883	527,773
937	477		302° 40' 1"	-	5.5	93° 50'	-33.2	-38.7		843.3		+264	-421	1,205,066	527,502
TP	573	571.9	300° 09' 56"	-	6.9	93° 30'	-35.0	-41.9		840.1	TP	+282	-497	1,205,084	527,424
TP	573				6.8	266° 30'	-35.0	-41.8			TP				
	573	571.6	108° 29' 54"	-0.6	+6.6	86° -	-40.0	-33.4	806.7		BS	+176	-544		
	573				+4.9	86° 10'	-38.3	-33.4			BS				
938	325		108° 10'	--	5.0	86° 10'	+21.7	+16.7		823.4		-98	+310	1,205,162	527,192
939	0				5.1	-		-5.1		801.6	X	0	0	1,205,260	526,882
IF	291		277° 57' 44"	--	5.8	94° -	-20.3	-26.1		780.6	TP	+37	-288	1,205,299	526,594
940	330		279° 10'	--	4.8	94° -	-23.0	-27.8		778.9		+49	-326	1,205,309	526,556

* LAST STA. EAST OF
TOWN OF JACKSONVILLE

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-15-85		B. Cotamp		K. Greenfield		6834		KOB		23 ext.		97			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ALABAMA		Jacksonville West		ALA.		CALHOUN								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									627.0						
	572				+8.7	-		+8.7			BS				
	572				+8.6	270		+8.6	635.6		BS				
X	0				5.1	-		-5.1		630.5	X				
TP	1066				6.3	88° 50'	+21.7	+15.4		651.0	TP				
TP	1066				9.4	88° 40'	+24.8	+15.4			TP				
	914				+0.6	89° 40'	-5.3	-4.7	646.3		BS				
	914				+3.3	89° 30'	-8.0	-4.7			BS				
X	0				5.1	-		-5.1		641.2	X				
TP	3464				5.3	90° 30'	-30.2	-35.5		610.8	TP				
TP	3464				9.2	90° 26'	-26.2	-35.4			TP				
	917				+3.6	89° 10'	-13.3	-9.7							
	917				+0.9	89° 20'	-10.7	-9.8	601.0						
X	0				5.1	-		-5.1		595.9	X				
X	180				3.5	90° 20'	-1.0	-4.5		596.5					
X	49				4.4	90° 20'	-0.3	-4.7		596.3					
X	49				4.3	269° 40'	-0.3	-4.6							
	1153		56 56 26	-0.3	+8.7	91° -	+20.1	+28.8	625.1		BS				
	1153				5.3	91° 10'	+23.5	+28.8			BS				
985	876		56 30	--	11.0	91° 10'	-17.8	-28.8		596.3		+487	+728	1,208,233	512,630
986	546		-	--	12.2	90° 10'	-1.6	-13.8		611.3		+304	+454	1,208,050	512,356

* STN. ON WEST SIDE OF JACKSONVILLE.

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-15-85		B Catcamp		K Greenfield		6834		KUG		23 ext		98			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ALABAMA		Jacksonville West		ALA.		CALHOUN								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									625.1						
987	217		53° 25'	-0.3	5.8	90° 10'	-0.6	-6.4		618.7		+130	+174	1,207,876	512,076
TP	0				5.1	-		-5.1		620.0	TP	0	0	1,207,746	511,902
988	117		252° 35'	--	7.6	90° 10'	-0.3	-7.9		617.2		-36	-111	1,207,710	511,791
TP	246		244° 43' 21"	--	6.6	91° 10'	-5.0	-11.6		613.5	TP	+106	+222	1,207,640	511,680
989	446		248° 35'	--	8.0	91° 10'	-9.1	-17.1		608.0		-165	-414	1,207,581	511,488
TP	672		251° 28' 44"	-	3.6	91° 30'	-17.4	-21.2		603.9	TP	-217	-636	1,207,529	511,266
TP	672				4.8	91° 24'	-16.4	-21.2			TP				
	1092		82° 00' 06"	-0.3+	6.1	74	-5.5	+0.6			BS	-158	-1081		
	1092				6.0	74° 27'	-5.5	+0.5	604.4		BS				
990	990		82° 05'	--	7.4	74	+5.0	-2.4		602.0		+141	+980	1,207,512	511,165
991	660		--	--	11.1	-		-11.1		593.3		+94	+653	1,207,465	510,838
992	330		--	--	12.8	-		-12.8		591.6		+47	+327	1,207,418	510,512
993	0				5.1	-		-5.1		599.3	TP	0	0	1,207,371	510,185
994	330		259° 25'	-0.3	5.3	88° 46'	+7.7	+2.4		606.8		-62	-324	1,207,309	509,861
995	660		--	--	6.5	88° 40'	+15.4	+8.9		613.3		-125	-648	1,207,246	509,537
996	990		258° 58' 02"	--	11.4	89°	+17.3	+5.9		610.3	TP	-195	-971	1,207,176	509,214
996	990				11.3	271	+17.3	+6.0			TP				
	326		76° 03' 30"	-0.3+	0.0	89°	-5.7	-5.7	604.6		BS	-80	-316		
	326				5.7	88°	-11.4	-5.7			BS				
997	0				5.1	-		-5.1		599.5	TP	0	0	1,207,096	508,898

TP Horiz.
TP Highway Enter
-1,207,640 x - 511,680

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-15-85		B. Cotcamp		K. Greenfield		6834		106		23 ext		99			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ALABAMA		JACKSONVILLE West		ALA.		CALHOUN								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									604.6						
998	330		244 10	-0.3	4.2	-		-4.2		600.4		-145	-296	1,206,951	508,602
TP	626		244 22 35	--	6.6	89 50	+1.8	-4.8		599.8	TP	-274	-563	1,206,822	508,335
TP	626				6.5	270 10	+1.8	-4.7			TP				
TP	1068		71 48 52	--	+11.0	87 -	-18.6	-7.6			BS	-339	-1013		
	1068				+10.9	271 -	-18.6	-7.7	592.1		BS				
999	1035		71 15	-0.3	6.7	89 20	+12.0	+5.3		597.4		+338	+978	1,206,821	508,300
1000	708		69 55	--	8.4	-		-8.4		583.7		+247	+664	1,206,730	507,986
IC	460		70 17 18	--	11.0	84	-2.3	-13.3		578.8	IC	+157	+432	1,206,640	507,754
1001	378		69 10	--	11.3	84	-1.9	-13.2		578.9		+136	+353	1,206,619	507,675
1002	48		51 30	--	6.3	-		-6.3		585.8		+30	+37	1,206,513	507,359
TP	0				5.1	-		-5.1		587.0	TP	0	0	1,206,483	507,322
1003	289		266 30	-0.3	5.9	89 -	+5.0	-0.9		591.2		-19	-288	1,206,464	507,034
1004	619		265 10	--	3.0	89 -	+10.8	+7.8		599.9		-55	-617	1,206,428	506,705
TP	873		263 11 14	--	11.3	89 -	+15.2	+3.9		596.0	TP	-108	-866	1,206,375	506,456
TP	873				11.2	271 -	+15.2	+4.0			TP				
	1148		88 54 05	-0.3	+8.2	-		+8.2			BS	-28	-1148		
	1148				+8.1	270 -		+8.1	604.1		BS				
1005	1072		88 10	--	11.0	-		-11.0		593.1		+20	+1071	1,206,387	506,379
1006	742		89 40	--	6.7	91 -	-12.9	-19.6		584.5		+8	+742	1,206,355	506,050
1007	412		89 10	--	6.0	91 -	-7.2	-13.2		590.9		+8	+412	1,206,355	505,720

1,206,705 x - 507,800
BRIDGE

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
5-15-85		B. Cotcamp		K. Greenfield		6834		1500		23 ext	100						
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER						
PLA.		Jacksonville West		ALA.		CALHOUN					W. Cassidy						
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS	
												LAT.	DEP.	Y	X		
									604.1								
1008	85		76 35	-0.3	5.8	91° -	-1.5	-7.3		596.8		+ 20	+ 83	1,206,367	505,391		
π	0				5.1	-		-5.1		599.0	π	0	0	1,206,347	505,308		
1009	251		281 50	--	3.8	89° 20'	+2.9	-0.9		603.2		+50	-246	1,206,397	505,062		
1010	520		281 05	--	11.8	89° 20'	+6.7	-5.1		599.0		+109	-570	1,206,456	504,738		
1011	910		- -	--	12.8	89° 20'	+10.6	-2.2		601.9		+170	-894	1,206,517	504,414		
1012	1240		- -	--	8.4	89° 20'	+14.4	+6.0		610.1		+232	-1218	1,206,579	504,090		
1013	1504		280 38 00	-0.3	5.9	89° 20'	+17.5	+11.6		615.7	π	+270	-1480	1,206,617	503,828	103-1,206,655 x -503828 π 4 way note	
1013	1570		281 -	--	6.4	89° 20'	+18.3	+11.9		616.0		+292	-1543	1,206,639	503,765		
1014	1902		281 12 28	--	6.2	89° 20'	+22.1	+15.9		620.0	TP	+360	-1868	1,206,707	503,440	across sta.	
1014	1902				6.1	270 40	+22.1	+16.0			TP						
	1879		107 02 58	-0.3	2.3	TH	-9.4	-7.1			BS	+542	-1799				
	1879				2.1	TH 270	-9.4	-7.3			BS						
1015	1549		106 50	--	6.3	TH	+7.7	+1.4		614.2		-441	+1485	1,206,808	503,126		
1016	1219		- -	--	8.8	-		-8.8		604.0		-347	+1169	1,206,702	502,810		
1017	890		106 05	--	9.7	-		-9.7		603.1		-242	+856	1,207,007	502,497		
1018	560		105 25	--	9.8	-		-9.8		603.0		-146	+541	1,207,103	502,182		
1019	230		102 15	--	5.8	-		-5.8		607.0		-48	+225	1,207,201	501,866		
π	0				5.1	-		-5.1		607.7	π	0	0	1,207,249	501,641		
1020	102		296 10	-0.3	7.2	-		-7.2		605.6		+45	-92	1,207,294	501,549		
1021	431		287 20	--	11.0	BM	-2.2	-13.2		599.6		+126	-412	1,207,375	501,229		

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-15-85		B. Cotcamp		K. Greenfield		6834		KUG		23 ext.		101			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ALABAMA		Jacksonville West		ALA.		CALHOUN								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									612.8						
1022	761		286° 15'	-0.3	11.5	90° 30'	-6.6	-18.1		594.7		+209	-732	1,207,458	500,909
1023	1091		- -	--	13.1	90° 30'	-9.5	-22.6		590.2		+300	-1049	1,207,549	500,592
1024	1421		- -	--	12.3	90° 30'	-12.4	-24.7		588.1		+390	-1366	1,207,639	500,275
1025	1751		- -	--	6.3	90° 30'	-15.3	-21.6		591.2		+481	-1684	1,207,730	499,993
TP	2014		286° 19' 51"	-	8.9	90° 34'	-19.9	-28.8		584.0	TP	+556	-1936	1,207,805	499,705
TP	2014				8.8	269° 26'	-19.9	-28.7			TP				
	776		112° 20' 46"	-0.3	+3.3	89° -	-13.5	-10.2			BS	+291	-719		
	776				+1.0	89° 10'	-11.3	-10.3	573.7		BS				
1026	710		111° 55'	--	3.5	89° 10'	+10.3	+6.8		580.5		-262	+660	1,207,834	499,646
1027	380		112° 50'	--	6.0	89° 10'	+5.5	-0.5		573.2		-146	+351	1,207,950	499,337
1028	51		103° 20'	--	5.4	89° 10'	+0.7	-4.7		569.0		-12	+50	1,208,084	499,036
T	0				5.1	-		-5.1		568.6	T	0	0	1,208,096	498,986
1029	278		290° 40'	--	8.3	89° 10'	+4.0	-4.3		569.4		+97	-261	1,208,173	498,725
11	595		288° 03' 50"	--	11.5	89° 10'	+8.7	-2.8		570.9	TP	+182	-567	1,208,278	498,419
11	595				6.3	89° 40'	+3.5	-2.8			TP				
1030	609		288° 47' 28"	-0.5	2.8	-		-2.8			TP	+191	-578	1,208,287	498,408
1030	609				5.9	TH	+3.0	-2.9		570.8	TP				
	706	705.2	174° 58' 26"	--	+3.0	92° 40'	+32.8	+35.8			BS	+702	-68		
	706				+2.9	267° 20'	+32.8	+35.7	606.5		BS				

Y = 1,207,800 X = 499,670
TP U. W. 1/4

Y = 1,208,300 X = 498,310
T - Inter

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-15-85		B. Cot Camp		K. Greenfield		6834		KWA		23 ext.		102			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ALABAMA		JACKSONVILLE WAY		ALA.		CALHOUN								W. CASSIDY	
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									606.5						
1031	379		179 20	-0.5	12.4	92 40	-17.6	-30.0		576.5		-379	+8	1,208,610	498,348
1032	49		- -	-	7.9	92 40	-2.3	-10.2		596.3		-49	+1	1,208,740	498,341
K	0				5.1	-		-5.1		601.4	K	0	0	1,208,989	498,340
1033	257		324 10	--	7.4	86 30	+15.7	+8.1		614.6		+207	-152	1,209,176	498,188
TP	364		312 22 13	--	14.0	87 -	+19.0	+5.0		611.5	TP	+243	-271	1,209,232	498,069
TP	364				13.0	87 16	+18.0	+5.0			TP				
	1856		103 26 02	-0.5	3.6	89 30	-16.2	-12.6	598.7		BS	+415	-1809		
	1856				3.3	89 30	-16.2	-12.9	598.7		BS				
1034	1650		163 30	--	7.4	89 30	+14.4	+7.0		605.7		-371	+1608	1,209,276	497,868
1035	1320		- -	--	5.7	-		-5.7		593.0		-297	+1286	1,209,350	497,546
1036	990		- -	--	7.9	-		-7.9		590.8		-223	+965	1,209,424	497,225
1037	660		- -	--	7.3	-		-7.3		591.4		-148	+643	1,209,499	496,903
1038	330		- -	--	6.7	-		-6.7		592.0		-74	+322	1,209,573	496,582
1039	0				5.1	-		-5.1		593.6	K	0	0	1,209,647	496,260
1040	330		281 10	--	7.3	89 -	+5.8	-1.5		597.2		+61	-324	1,209,708	495,934
TP	381		279 13 03	--	5.8	89 -	+6.6	+0.8		599.5	TP	+58	-377	1,209,705	495,883
1041	660		279 10	--	7.0	88 10	+21.1	+14.1		612.8		+99	-652	1,209,746	495,108
1042	989		278 12 28	--	8.1	88 30	+25.9	+17.8		616.5	TP	+133	-980	1,209,780	495,280
1042	989				8.0	87 30	+25.9	+17.9			TP				

Y = 1,209,675
X = 495,880

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE						
5-15-85		B. Cotcamp		K. Greenfield		6834		RWC		23 ext.		103						
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER				
ALA.		Jacksonville West		ALA.		CALHOUN								W. Cassidy				
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS
												LAT.	DEP.	Y	X			
										616.5								
	1644		112° 05' 54"	-0.5 +	10.4	90° 20'	+9.6	+20.0			TP BS	+605	-1529					
	1644				+10.3	269° 40'	+9.6	+19.9	636.4		TP BS							
1043	1314		113° 10'	--	11.7	90° 24'	-9.2	-20.9		615.5		-506	+1213	1,209,879	494,964			
1044	985		112° 24'	--	8.2	90° 24'	-6.9	-15.1		621.3		-367	+914	1,210,018	494,665			
1045	656		112° 44'	--	6.0	90° 24'	-4.6	-10.6		625.8		-248	+607	1,210,137	494,358			
1046	330		117° 30'	--	12.5	90° 24'	-2.3	-14.8		621.6		-150	+294	1,210,235	494,045			
1047	0				5.1	-		-5.1		631.3	TP	0	0	1,210,385	493,751			
1048	329		285° 50'	-0.5	7.8	91° -	-5.7	-13.5		622.9		+87	-317	1,210,472	493,434			
1049	658		284° 10'	--	11.0	91° 20'	-15.3	-26.3		610.1		+155	-639	1,210,540	493,112			
1050	988		-	--	6.6	91° 20'	-23.0	-29.6		606.8		+233	-960	1,210,618	492,791			
1051	1318		-	--	4.8	91° 10'	-26.8	-31.6		604.8		+311	-1281	1,210,696	492,470			
1052	1647		283° 25'	--	7.0	91° 10'	-33.5	-40.5		595.8		+368	-1605	1,210,753	492,146			
TP	1717		283° 17' 40"	--	7.3	91° 10'	-35.0	-42.3		594.1	TP	+380	-1674	1,210,765	492,077			
TP	1717				7.2	268° 30'	-35.0	-42.2			TP							
	1366		83° 15' 23"	-0.5 +	5.0	89° -	-23.8	-18.8			BS	-172	-1355					
	1366				+4.9	271° -	-23.8	-18.9	575.2		BS							
1053	1104		82° 55'	--	6.8	89° -	+19.3	+12.5		587.7		+146	+1094	1,210,739	491,816			
1054	774		-	--	13.1	89° -	+13.5	+0.4		575.6		+102	+767	1,210,695	491,489			
1055	445		82° 10'	--	6.8	89° -	+7.8	+1.0		576.2		+64	+440	1,210,657	491,162			
1056	115		-	--	6.3	89° -	+2.0	-4.3		570.9		+17	+114	1,210,610	490,836			

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY			LINE NO.		PAGE		
5-15-85		B. Cotcamp		K. Greenfield		6834		KWA			23 ext.		104		
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ALABAMA		Jacksonville West		ALA.		CALHOUN								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
									575.2						
π	0				5.1	-		-5.1		570.1	π	0	0	1,210,593	490,722
1057	210		248° 50'	-0.5	8.5	92° -	-7.3	-15.8		559.4		-78	-195	1,210,515	490,527
1058	531		235° 40'	-	12.7	92° -	-18.5	-31.2		544.0		-303	-436	1,210,290	490,286
1059	862		235° 26' 45"	-	2.6	92° -	-30.1	-32.7		542.5	TP	-495	-705	1,210,098	490,017
1059	862				2.5	268° -	-30.1	-32.6			TP				
	792		65° 05' 15"	-0.5	2.3	92°	+27.6	+29.9	572.4		BS	-340	-715		
	792				+9.2	91° 30'	+20.7	+29.9			BS				
π	668		64° 37' 59"	-	6.6	92° -	-23.3	-29.9		542.5		+291	+601	1,210,049	489,903
1060	462		64° 25'	-	8.5	92° -	-16.1	-24.6		547.8		+203	+415	1,209,961	489,717
1061	132		~	-	6.0	92° -	-4.6	-10.6		561.8		+58	+119	1,209,816	489,421
π	0				5.1	-		-5.1		567.3	π	0	0	1,209,758	489,302
1062	202		262° 50'	-0.5	5.1	88°	+7.0	+1.9		574.3		-27	-200	1,209,731	489,102
1063	531		259° -	-	7.5	89° -	+9.3	+1.8		574.2		-106	-520	1,209,652	488,792
TP	772		257° 56' 30"	-	13.0	89°	+13.5	+0.5		572.9	TP	-168	-753	1,209,590	488,599
TP	772				12.9	271° -	+13.5	+0.6			TP				
	2138		66° 40' 37"	-0.6	+4.1	-		+4.1	576.8		BS	-867	-1954		
	2138				+3.8	270°		+3.8	573.9		BS				
1064	2050		66° 25'	-	7.0	-		-7.0		569.8		+840	+1870	1,209,863	488,465
1065	1725		66° 35'	-	8.8	BM	-8.6	-17.4		559.4		+702	+1576	1,209,425	488,171

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	5-16-85	INSTRUMENT MAN	B. Cotcamp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	KWG	LINE NO.	23 ext.	PAGE	105	
AREA	ALABAMA	TOPO MAP	Wellington	STATE	ALA.	COUNTY	CALHOUN	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	
									576.8							
1066	1459		73° 23'	-0.6	10.9	90° 32'	-13.6	-24.5		552.3		+432	+1394	1,208,155	487,989	
1067	1284		85° -	--	11.0	90° 20'	-7.5	-18.5		558.3		+125	+1278	1,208,848	487,573	↑
1068	989		90° 10'	--	7.0	-	-	-7.0		569.8		+7	+989	1,208,730	487,584	Jacksonville West
1069	660		--	--	7.1	-	-	-7.1		569.7		+5	+660	1,208,728	487,255	WELLINGTON ↓
1070	330		--	--	7.3	-	-	-7.3		569.5		+3	+330	1,208,726	486,925	
1071	0				5.1	-	-	-5.1		571.7	X	0	0	1,208,723	486,595	
#1	62		265° 23' 10"	-0.6	5.0	-	-	-5.0		571.8	#1	-6	-62	1,208,717	486,533	y=1,208,695 x=486,515 H-inter
1072	330		271° 02'	--	4.3	TH	+1.7	-2.6		574.2		+3	-330	1,208,726	486,265	
1073	660		--	--	9.1	-	-	-9.1		567.7		+5	-660	1,208,728	485,935	
1074	990		218° 24'	--	10.8	-	-	-10.8		566.0		+14	-990	1,208,737	485,605	
1075	1320		271° 27' 22"	--	13.8	-	-	-13.8		563.0	TP	+20	-1320	1,208,743	485,275	
1075	1320				13.7	270° -	-	-13.7			TP					
	1199		102° 36' 02"	-0.6	6.7	-	-	+6.7			BS	+249	-1173			
	1199				+6.6	270° -	-	+6.6	569.6		BS					
1076	869		102° 25'	--	9.3	-	-	-9.3		560.3		-178	+851	1,208,814	484,953	
with	765		102° 36' 52"	--	5.8	-	-	-5.8		563.8	#1	-159	+748	1,208,833	484,850	y=1,208,800 x=484,875 R.R. TRACKS
1077	540		100° 25'	--	6.7	-	-	-6.7		562.9		-92	+532	1,208,900	484,634	
1078	214		92° 35'	--	7.9	-	-	-7.9		561.7		-7	+214	1,208,985	484,316	
X	0				5.1	-	-	-5.1		564.5	X	0	0	1,208,992	484,102	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	5-16-85	INSTRUMENT MAN	B. Cotcamp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	KUB	LINE NO.	23 EXT.	PAGE	106	
AREA	ALABAMA	TOPO MAP	WELLINGTON	STATE	ALA.	COUNTY	CALHOUN	TWP		RANGE		PPM	PARTY MANAGER	W. Cassidy

STATION NO.	SLOPE DISTANCE	PLOTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									569.6					
1079	135		311° 20'	-0.4	9.0	-		-9.0		560.6		+ 88	-102	1,209,080 484,000
1080	458		296° 20'	--	8.6	91° -	-8.0	-16.6		553.0		+ 199	-413	1,209,191 483,689
1081	788		295° 55'	--	9.1	91° -	-13.8	-22.9		546.7		+ 337	-712	1,209,329 483,390
1082	1115		294° 40'	--	9.0	91° -	-19.5	-28.5		541.1		+ 455	-1018	1,209,447 483,084
TP	1148		294° 15' 40"	-	8.6	91° -	-20.0	-28.6		541.0	TP	+461	-1051	1,209,453 483,051
TP	1148				8.5	269° -	-20.0	-28.5			TP			
	404		102° 34' 09"	-0.6 +	5.7	-		+5.7			BS	+84	-375	
	404				5.6	270° -		+5.6	546.6		BS			
1083	708		99° 30'	--	6.2	-		-6.2		540.4		-17	+107	1,209,520 482,763
#	257		105° 01' 58"	--	6.6	-		-6.6		540.0	#	-65	-251	1,209,472 482,405
K	0				5.1	-		-5.1		541.5	K	0	0	1,209,537 482,686
1084	225		297° 40'	-0.6	5.8	88° 40'	+5.2	-0.6		546.0		+102	-200	1,209,639 482,456
1085	554		295° 15'	--	7.3	88° 40'	+12.9	+5.6		552.2		+231	-504	1,209,768 482,152
TP	777		295° 08' 59"	--	4.6	89° -	+13.6	+9.0		555.6	TP	+323	-707	1,209,860 481,949
1086	884		295° 20'	--	7.5	89° -	+15.4	+7.9		554.5		+370	-803	1,209,907 481,853
TP	1358		295° 08' 49"	-	13.2	89° -	+23.7	+10.5		557.1	TP	+564	-1235	1,210,101 481,421
TP	1358				13.1	271° -	+23.7	+10.6			TP			
	735		118° 50' 58"	-0.6 +	9.2	BH	+3.7	+12.9			BS	+348	-647	
	735				0.0	91° -	+12.8	+12.8	569.9		BS			
1087	879		117° 40'	-	9.0	BH	-4.4	-13.4		556.5		-400	+783	1,210,049 481,557

1,209,825 x - 481,935
TP 4 WAY Jct.

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	5-16-85	INSTRUMENT MAN	B. Cotcamp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	KW	LINE NO.	23 ext.	PAGE	107
AREA	ALABAMA	TOPO MAP	Wellington	STATE	ALA.	COUNTY	Calhoun	TWP		RANGE	PPM	PARTY MANAGER	W. Cassidy

STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									569.9					
1088	549		117° 30'	-0.6	11.7	BH	-2.7	-14.4		555.5		-248	+490	1,210,201 481,264
1089	218		111° 15'	--	6.6	-		-6.6		563.3		-17	+209	1,210,372 480,978
TP	0				5.1	-		-5.1		564.8	TP	0	0	1,210,449 480,774
1090	110		287° 35'	--	5.1	-		-5.1		564.8		+32	-105	1,210,481 480,669
1091	439		289° 15'	--	13.0	BH	-2.2	-15.2		554.7		+140	-416	1,205,589 480,358
TP	527		290° 08' 30"	-0.8	11.2	90° 50'	-7.7	-18.9		551.0	TP	+175	-497	1,210,624 480,277
TP	527				11.1	269° 10'	-7.7	-18.9			TP			
	369		97° 28' 46"	--	0.8	89°	-6.4	-5.6	545.4		BS	+43	-366	
	369				+5.1	88° 20'	-10.7	-5.6			BS			
1092	138		88° 20'	--	5.0	89° 40'	+0.8	-4.2		541.2		+6	+138	1,210,673 480,049
TP	0				5.1	-		-5.1		540.3	TP	0	0	1,210,667 479,911
1093	195		293° 50'	-0.8	6.1	89°	+3.4	-2.7		542.7		+76	-179	1,210,713 479,732
1094	524		291° 34' 17"	--	5.8	88° 20'	+15.2	+9.4		554.8	TP	+186	-490	1,210,853 479,421
1094	524				4.3	88° 30'	+13.7	+9.4			TP			
	1206		96° 41' 25"	--	12.9	91° 30'	+31.6	+44.5	599.2		BS	+124	-1199	
	1206				12.7	268° 30'	+31.6	+44.3	+44.3		BS			
1095	876		95° 50'	--	8.0	91° 50'	-28.0	-36.0		563.2		-77	+873	1,210,906 479,095
1096	548		94° 40'	--	9.0	91° 50'	-17.5	-26.5		572.7		-37	+547	1,210,940 478,769
1097	218		96° 20'	--	8.1	91° 50'	-7.0	-15.1		584.1		-21	+217	1,210,956 478,439
TP	0				5.1	-		-5.1		594.1	TP	0	0	1,210,977 478,222

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-16-85		B. Cotamp		K. Greenfield		6834		KLG		23 ext.		108			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ALABAMA		WELLINGTON		ALA.		CALHOUN								W. Cass, Jr	
STATION NO.	SLOPE 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
									599.2						
1098	112		275° 20'	-0.8	5.0	89° 50'	+0.3	-4.7		594.5		+9	-112	1,210,986	478,110
1099	442		273° 10'	--	5.8	91° 20'	-10.3	-16.1		583.1		+18	-442	1,210,995	477,780
1100	772		- - -	--	12.5	91° 20'	-18.0	-30.5		568.7		+32	-771	1,211,009	477,451
TP	925		272° 51' 16"	--	8.7	91° 30'	-24.2	-32.9		566.3	TP	+33	-924	1,211,010	477,298
TP	925				11.4	91° 20'	-21.5	-32.9			TP				
	766		106° 40' 57"	-0.8	+5.3	89° -	-13.4	-8.1	558.2		BS	+210	-737		
	766				+9.8	88° 40'	-17.8	-8.0			BS				
1101	586		106° 30'	--	7.8	88° 30'	+15.3	+7.5		565.7		-159	+564	1,211,061	477,125
1102	258		102° 15'	--	6.5	88° 30'	+6.8	+0.3		558.5		-51	+253	1,211,169	476,814
TP	0				5.1	-		-5.1		553.1	TP	0	0	1,211,220	476,561
1103	74		258° 30'	-0.8	5.7	88° 30'	+1.9	-3.8		554.4		-16	-72	1,211,204	476,489
TP	125		252° 21' 12"	--	4.4	88° 30'	+3.3	-1.1		557.1	TP	-40	-119	1,211,180	476,442
1104	401		250° 55'	--	8.2	89° 20'	+4.7	-3.5		554.7		-136	-377	1,211,084	476,184
1105	732		249° 20' 43"	--	9.1	89° 20'	+8.5	-0.6		557.6	TP	-268	-681	1,210,952	475,880
1105	732				7.0	89° 30'	+6.4	-0.6			TP				ACROSS STA.
	401		104° 59' 28"	-0.8	+1.1	92° 50'	+19.8	+20.9	578.5		BS	+98	-388		
	401				+2.3	92° 40'	+19.6	+20.9			BS				
1106	68		105° -	--	7.0	92° 40'	-3.2	-10.2		568.3		-17	+66	1,211,033	475,558
TP	0				5.1	-		-5.1		573.4	TP	0	0	1,211,050	475,492
1107	262		304° 50'		5.9	86° 40'	+15.2	+9.3		587.8		+147	-217	1,211,197	475,275

9-1,211,180 x -476,435
if way enter.

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	5-16-85	INSTRUMENT MAN	B. Cotcamp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	KUV	LINE NO.	23 ext.	PAGE	109
AREA	ALA BA-A	TOPO MAP	Wellington	STATE	ALA.	COUNTY	CALHOUN	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
									578.5							
TP	507		300° 37' 28"	-0.8	11.5	87°	+26.5	+15.0	571.7	593.5	TP	+252	-439	1,211,302	475,053	
TP	507				13.0	86° 50'	+28.0	+15.0		TP						
	412		72° 46' 15"	~	+3.4	86° 30'	-25.2	-21.8		BS			-127	-391		
	412				+4.6	86° 20'	-26.3	-21.7		BS						
1108	328		70° 50'	~	6.3	86°	+22.9	+16.6		588.3		+112	+308	1,211,287	474,970	
1109	0				5.1	-		-5.1		566.6	X	0	0	1,211,175	474,662	
1110	329		226° 30'	~	4.7	92°	-11.5	-16.2		555.5		-230	-235	1,210,945	474,427	
1111	658		222° 30'	-	10.2	91° 30'	-17.2	-27.4		544.3		-491	-438	1,210,684	474,224	
TP	929		221° 54' 52"	--	4.2	91° 10'	-18.9	-23.1	548.6		TP	-700	-611	1,210,475	474,051	
TP	929				1.5	91° 20'	-21.6	-23.1		TP						
	598		53° 23' 18"	-0.8	+13.3	90° 30'	+15.6	+28.9	577.5		BS	-363	-475			
	598				+9.8	91° 50'	+19.7	+28.9		BS						
1112	539		52° 27'	~	10.0	91° 40'	-15.7	-25.7		551.8		+334	+423	1,210,446	473,999	
1113	209		53° 12'	~	7.6	90° 40'	-2.4	-10.0		567.5		+128	+166	1,210,240	473,742	
X	0				5.1	-		-5.1		572.4	X	0	0	1,210,112	473,576	
1114	121		239° 52'	~	6.0	87° 20'	+5.6	-0.4		577.1		-62	-104	1,210,050	473,472	
IF	309		238° 00' 21"	~	5.0	87°	+16.1	+11.1		588.6	IF	-167	-259	1,209,945	473,317	
1115	451		239° 52'	-	6.2	87°	+23.6	+17.4		594.9		-232	-387	1,209,880	473,189	
TP	581		237° 32' 35"	-	10.2	87° 30'	+25.3	+15.1	592.6		TP	-318	-485	1,209,794	473,091	
TP	581				11.9	87° 20'	+27.0	+15.1		TP						

IF 1,209,935 x 473,315
IF T-Inter. EL 584.0

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
5-16-85		B. Cotcamp		K. Greenfield		6834		KwG		23 ext.	110			
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
ALABAMA		WELLINGTON		ALA.	CALHOUN					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.	
										592.6				
	799		54 39 51	-08 +	0.9	88 40	-18.6	-17.7	574.9		BS	-471	-645	
	799			+	5.5	88 20	-23.2	-17.7		BS				
1116	601		54 -	--	5.9	88 30	+15.7	+9.8		584.7		+360	+481	1,209,683 472,927
1117	272		55 45	--	6.8	-	-	-6.8		568.1		+156	+223	1,209,479 472,669
TP	0				5.1	-	-	-5.1		569.8	TP	0	0	1,209,323 472,446
1118	71		291 20	--	6.0	86 -	+5.0	-1.0		573.9		+25	-66	1,209,348 472,380
1119	400		287 30	--	10.1	89 -	+7.0	-3.1		571.8		+115	-383	1,209,438 472,063
1120	728		288 -	--	11.0	89 10	+10.6	-0.4		574.5		+215	-695	1,209,538 471,751
1121	1058		287 20	--	11.0	88 40	+24.6	+13.6		588.5		+301	-1014	1,209,624 471,432
TP	1222		287 11 41	-1.1	3.6	88 30	+32.0	+24.4		603.3	TP	+339	-1174	1,209,662 471,272
TP	1222				3.5	291 30	+32.0	+28.5			TP			
	931		107 19 50	--	+3.7	93 -	+48.7	+52.4			BS	+260	-893	
	931				+3.6	267 -	+48.7	+52.3		655.6	BS			
1122	769		106 20	--	11.2	93 -	-40.2	-51.4		604.2		-202	+742	1,209,720 471,121
IF	550		107 09 16	-1.1	8.3	94 -	-38.3	-46.6		609.0	IF	-152	+527	1,209,770 470,906 IF T-Inter.
1123	439		106 20	--	11.1	94 -	-30.6	-41.7		613.9		-115	+424	1,209,807 470,803
1124	108		104 20	--	5.6	92 10	-4.1	-9.7		645.9		-25	+105	1,209,887 470,484
TP	0				5.1	-	-	-5.1		650.5	TP	0	0	1,209,922 470,379
1125	222		281 45	--	9.0	92 10	-8.4	-17.4		638.2		+41	-218	1,209,963 470,161
1126	549		281 20	--	4.5	92 10	-20.7	-25.2		630.7		+98	-540	1,210,020 469,839

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-16-85		B. Cotcamp		K. Greenfield		6834		KVG		23 ext		111			
AREA		TOPO MAR.		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ALABAMA		WELLINGTON		ALA.		CALHOUN								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
									655.6						
TP	586		279 41 48	-1.1	3.0	91°	-10.2	-13.2	}	642.4	TP	+88	-579	1,210,010	469,800
TP	586				4.7	90° 50'	-8.5	-13.2		TP					
	643		141 33 51	--	6.9	94°	+44.9	+51.8	}		BS	+495	-408		
	643				6.8	266°	+44.9	+51.7		694.1	BS				
1127	331		140 40	--	7.7	93° 40'	-21.2	-28.9		665.2		-252	+215	1,210,253	469,607
1128	0				5.1			-5.1		689.0	X	0	0	1,210,505	469,392 Access Sta.
1129	331		334 45 "	-1.1	6.7	86° 40'	+19.2	+12.5		706.6		+297	-147	1,210,802	469,245
TP	387		334 50 51	--	7.5	87° 20'	+18.0	+10.5	}	704.6	TP	+347	-171	1,210,852	469,221
TP	387				8.6	87° 16'	+19.1	+10.5		TP					
	441	439.3	161 31 51	--	6.3	85°	-38.4	-32.1	}		BS	+414	-147		
	441				5.0	85° 10'	-37.2	-32.2		672.4	BS				
1130	167		162 50	-1.1	6.6	85° 10'	+14.1	+7.5		679.9		-159	+52	1,211,107	469,126
X	0				5.1			-5.1		667.3	X	0	0	1,211,266	469,074
1131	159		318 20 "	--	5.6	95° 10'	-14.3	-19.9		652.5		+117	-108	1,211,383	468,966
TP	400		313 24 41	--	11.9	95° 10'	-36.0	-42.9	}	624.5	TP	+268	-295	1,211,534	468,779
TP	400				9.5	95° 30'	-38.3	-47.8		TP					
	1063		156 06 47	--	2.4	87° 20'	-49.5	-47.1	}		BS	+962	-449		
	1063				2.3	272° 40'	-49.5	-47.2		577.3	BS				
IF	1034		155 47 48	--	3.5	87° 20'	+48.1	+44.6		621.9	IF	-934	+441	1,211,562	468,771

IF Y = 1,211,540 X = 468,700
IF T - INTG

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	5-16-85	INSTRUMENT MAN	B. Cotcamp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	KWG	LINE NO.	23 ext.	PAGE	112
AREA	ALABAMA	TOPO MAP	Wellington	STATE	ALA.	COUNTY	Calhoun	TWP		RANGE	PPM	PARTY MANAGER	

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									577.3					
1132	972		155° 25'	-1.1	5.7	87° 20'	+45.2	+39.5		616.8		-876	+421	1,211,620 468,751
1133	642		155° 30'	--	10.4	87° 20'	+29.8	+19.4		597.7		-579	+277	1,211,917 468,607
1134	313		154° 45'	--	11.4	87° 20'	+14.5	+3.1		580.4		-280	+139	1,212,216 468,469
π	0				5.1	-		-5.1		572.2	π	0	0	1,212,496 468,330
1135	53		50° 50'	-1.1	6.3	-		-6.3		571.0		+34	+40	1,212,530 468,370
1136	364		9° -	--	12.2	-		-12.2		565.1		+361	+50	1,212,857 468,380
1137	692		14° 55'	--	14.1	BH	-3.5	-17.6		559.7		+672	+165	1,213,168 468,495
1138	960		4° 20'	--	12.2	91° -	-16.8	-29.0		548.3		+958	+54	1,213,454 468,384
1139	1272		1° 50'	-	11.3	91° -	-22.2	-33.5		543.8		+1272	+16	1,213,768 468,346
1140	1593		4° 55'	-	7.2	91° -	-27.8	-35.0		542.3		+1589	+106	1,214,088 468,436
TP	1809		3° 20' 20"	-1.3	3.5	91° -	-31.6	-35.1		542.2	TP	+1808	+64	1,214,304 468,394
TP	1809				3.4	269° -	-31.6	-35.0			TP			
	206		134° 30' 08"	-	+13.3	-		+13.3	555.5		BS	+141	-150	
	206				+12.3	BH	+1.0	+13.3			BS			
1141	117		125° 40'	--	6.8	91° 10'	-2.4	-9.2		546.3		-66	+97	1,214,379 468,341
π	0				5.1	-		-5.1		550.4	π	0	0	1,214,445 468,244
1142	199		296° 15'	-1.3	5.5	-		-5.5		550.0		+84	-180	1,214,529 468,064
1143	528		292° 55'	-	10.9	91° -	-9.2	-20.1		535.4		+195	-491	1,214,640 467,753
1144	858		293° 40'	--	3.0	91° -	-15.0	-19.0		537.5		+327	-793	1,214,772 467,451
1145	1187		293° 20'	-	5.7	90° 50'	-17.3	-23.0		532.5		+445	-1100	1,214,890 467,144

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
5-16-85		B. Cotcamp		K. Greenfield		6834		KWA		23 ext		113				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
ALABAMA		Wellington		ALA		CALHOUN								W. Cassidy		
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
									555.5							
TP	1207		292° 21' 50"	-1.3	5.1	90° 50'	-17.5	-22.6	}	532.9	TP	+434	-1126	1,214,879	467,118	
TP	1207				5.0	269° 10'	-17.5	-22.5		TP						
	495		127° 43'	-	+0.9	89° -	-8.6	-7.7		BS	+294	-398				
	495				+2.3	88° 50'	-10.1	-7.8		BS						
1146	180		128° 05'	-	6.8	89° -	+3.1	-3.7		521.4		-108	+144	1,215,065	466,864	
π	0				5.1	-		-5.1		520.0	π	0	0	1,215,173	466,720	
1147	154		326° 30'	-1.3	4.9	-		-4.9		520.2		+126	-88	1,215,299	466,632	
1148	483		322° 15'	-	6.4	TH	+2.4	-4.0		521.1		+375	-304	1,215,548	466,416	
1149	813		322° 20'	-	7.1	TH	+4.1	-3.0		522.1		+632	-511	1,215,805	466,209	
TP	972		322° 08' 25"	-	4.5	-		-4.5	}	520.6	TP	+754	-614	1,215,927	466,106	
TP	972				9.3	TH	+4.9	-4.4		TP						
	755		150° 36' 06"	-1.3	5.5	-		+5.5	}	526.1	BS	+649	-385			
	755				+9.3	TH	-3.8	+5.5		BS						
1150	583		149° 20'	-	6.3	-		-6.3		519.8		-495	+309	1,216,081	466,030	
1151	254		145° 30'	-	5.7	89° 20'	+3.0	-2.7		523.4		-206	+149	1,216,370	465,870	
π	0				5.1	-		-5.1		521.0	π	0	0	1,216,576	465,721	
1152	88		286° 30'	-	6.8	-		-6.8		519.3		+23	-85	1,216,599	465,636	
±	284		290° 48' 03"	-	7.2	-		-7.2		518.9	±	+95	-268	1,216,671	465,453	
1153	416		290° 45'	-	6.2	-		-6.2		519.9		+138	-391	1,216,714	465,330	

± 4 - 1216670x - 465475
 TP 4 way Inter. EL. S.A. 0

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	5-16-85	INSTRUMENT MAN	B. Cotcamp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	MLG	LINE NO.	23 EXT	PAGE	114
AREA	ALA BAMA	TOPO MAP	Wellington	STATE	ALA.	COUNTY	JALHOAN	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	
									526.1							
TP	622		286° 43' 43"	-1.3	4.9	89° 20'	+7.2	+2.3	}	528.4	TP	+165	-600	1,216,741	465,121	
TP	622				6.7	89° 10'	+9.0	+2.3		TP						
	617		87° 13' 01"	-	+12.0	92° -	+21.5	+33.5	}	561.8	BS	-44	-615			
	617				+9.9	92° 10'	+23.3	+33.2		+33.4	BS					
1154	497		86° 45'	--	7.7	92° 30'	-21.7	-29.4		532.4		+39	+495	1,216,736	465,001	
1155	167		88° 20'	-	8.8	92° 30'	-7.3	-16.1		545.7		+9	+167	1,216,706	464,673	
X	0				5.1	-	-	-5.1		556.7	X	0	0	1,216,697	464,506	
1156	172		299° 50'	-1.3	5.6	89° 40'	+1.0	-4.6		557.2		+82	-151	1,216,779	464,355	
1157	500		293° -	--	7.9	89° 40'	+2.9	-5.0		556.8		+185	-465	1,216,882	464,041	
1158	830		293° 10'	--	5.3	89° 40'	+4.8	-0.5		561.3		+309	-770	1,217,006	463,736	
TP	1074		292° 31' 34"	--	2.1	89° 30'	+9.4	+7.3	}	569.1	TP	+389	-1001	1,217,084	463,505	
TP	1074				5.2	89° 20'	+12.5	+7.3		TP						
	285		131° 05' 27"	-1.3	+10.4	74°	-1.4	+9.0	}	579.1	BS	+182	-219			
	285				+13.9	89° -	-5.0	+8.9		BS						
1159	193		127° 50'	-	5.1	74°	+1.0	-4.1		574.0		-115	+155	1,217,153	463,441	
X	0				5.1	-	-	-5.1		573.0	X	0	0	1,217,268	463,286	
1160	136		323° 25'	--	9.5	-	-	-9.5		568.6		+107	-84	1,217,375	463,202	
TP	263		322° 18' 30"	--	9.1	-	-	-9.1		569.0	TP	+204	-165	1,217,472	463,121	TP 4 WAY
H71161	466		323° 25'	-	7.0	-	-	-7.0		571.1		+368	-286	1,217,636	463,006	
H81162	796		-	-	5.0	89° 20'	+9.3	+4.3		582.4		+628	-489	1,217,896	462,797	

TP 4 - 1,217,505 x .463,115

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
		B. Cotnam		K. Greenfield		6834		B. C.		23 ext.		115			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
		Wellington		ALA.		CALHOUN								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH+ SOUTH-	EAST+ WEST-		Y
									578.1						
1163	1126		323° 25'	-1.3	3.0	89° 20'	+13.1	+10.1		588.2		+889	-691	1,218,157	462,595
1164	1455		323° 31' 07"	-	10.6	89° 24'	+15.2	+4.6		582.7	TP	+1150	-891	1,218,418	462,395
1164	1455 ⁹		13		10.5	276° 36'	+15.2	+4.7			TP				
	559		137° 15' 59"	-	5.1	88°	-19.5	-14.4	568.3		BS	+402	-388		
	559				3.5	88° 10'	-17.9	-14.4			BS				
1165	232		130° 45'	-1.3	5.6	87° 30'	+10.1	+4.5		572.8		-147	+179	1,218,673	462,186
X	0				5.1			-5.1		563.2	X	0	0	1,218,820	462,007
1166	98		310° 25'	-	6.7	88° 36'	+2.6	-4.1		564.2		+62	-76	1,218,882	461,931
1167	426		307° 35'	-	8.1	88° 30'	+11.1	+3.0		571.3		+252	-343	1,219,072	461,664
TP	511		304° 50' 16"	-	2.4	89° 30'	+4.5	+2.1			TP	+282	-426	1,219,102	461,581
TP	511				3.9	89° 20'	+5.9	+2.0		570.3	TP				
	820		91° 15' 22"	-1.3	6.9	89°	-14.3	-7.4			BS	-1	-820		
	820				9.3	88° 50'	-16.7	-7.4	562.9		BS				
1168	578		89° 35'	-	5.7	88° 40'	+13.4	+7.7		570.6		+17	+578	1,219,118	461,339
1169	248		90° 05'	-	5.0	88° 20'	+7.2	+2.2		565.1		+5	+248	1,219,106	461,009
X	0				5.1			-5.1		557.8	X	0	0	1,219,101	460,761
1170	87		298°	-	7.5	92°	-3.0	-10.5		552.4		+39	-78	1,219,140	460,643
1171	415		285° 05'	-	6.0	92°	-14.5	-20.5		542.4		+99	-403	1,219,200	460,358
1172	745			-	9.3	91° 30'	-19.5	-28.8		534.1		+178	-724	1,219,279	460,837

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	5-16-85	INSTRUMENT MAN	B. Cotcamp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	B.C.	LINE NO.	23 ext	PAGE	116
AREA	ALABAMA	TOPO MAP	Wellington	STATE	ALA.	COUNTY	CALHOUN	RANGE		PPM		PARTY MANAGER	W. Cassidy

STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									562.9					
TP	1000		284° 44' 46"	-1.1°	4.5	91° 10'	-20.4	-24.9		538.0	TP	+236	-972	1,219,337 459,789
TP	1000				4.4	268° 50'	-20.4	-24.8			TP			
	732		130° 14' 19"	--	+13.6	91°	+12.8	+26.4		564.4	BS	+462	-568	
	732				+7.3	91° 30'	+19.2	+26.5			BS			
1173	651		130° 15'	-1.1°	6.3	91° 30'	-17.0	-23.3		541.1		-411	+505	1,219,388 459,726
1174	327		137° 50'	--	6.0	91° 30'	-8.6	-14.6		549.8		-238	+224	1,219,561 459,445
1175	0				5.1	--		-5.1		559.3	TP	0	0	1,219,799 459,221
1176	37		308° 47' 36"	--	5.5	88° 20'	+1.1	-4.4		560.0	11	+23	-29	1,219,822 459,192 $11^y = 1,219,800 \times .459,185$ $11^y - \text{Inter.}$
1176	330		328° 10'	--	6.5	88° 30'	+8.6	+2.1		566.5	11	+277	-179	1,220,076 459,042
TP	487		323° 54' 15"	~	7.3	88° 50'	+9.9	+2.6		567.0	TP	+388	-294	1,220,187 458,926
TP	487				5.9	89°	+8.5	+2.6			TP		-1	
	497		117° 15' 29"	-1.1°	+9.8	--		+9.8		576.8	BS	+219	-446	
	497				+7.3	BH	+2.5	+9.8			BS		-1	
1177	380		116° 52' 50"	--	10.6	--		-10.6		566.2	11	-165	+342	1,220,211 458,821 $11^y = 1,220,270 \times .458,800$ $11^y - \text{Inter.}$
1177	330		115° 50'	--	10.7	--		-10.7		566.1	11	-138	+300	1,220,268 458,779
1178	0				5.1	--		-5.1		571.7	TP	0	0	1,220,406 458,479
1179	330		309° 25'	-1.1°	11.7	90° 40'	-3.8	-15.5		561.3		+205	-259	1,220,611 458,220
1180	656		306° 53' 37"	--	3.7	90° 40'	-7.6	-11.3		565.5	TP	+384	-532	1,220,770 457,946
1180	656				5.6	90° 30'	-5.7	-11.3			TP		-1	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
5-16-85		B. Cotcamp		K. Greenfield		6834		B.C.		23 ext	117			
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
ALABAMA		Wellington		ALA.	CALHOUN					W. Cassidy				
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									566.5					
	750		118° 48' 14"	-1.1	+3.9	88° 46'	-16.1	-12.2	553.2		BS	+349	-664	
	750				+2.8	88° 50'	-15.3	-12.5		-12.3	BS		-1	
1181	420		119° 50'	--	6.1	89° -	+7.3	+1.2		554.4		-202	+368	1,220,937 457,649
1182	91		113° 45'	--	9.2	89° -	+11.6	-7.6		545.6		-135	+84	1,221,104 457,365
TP	0				5.1	-		-5.1		548.1	TP	0	0	1,221,139 457,281
1183	244		318° 25'	-1.1	8.2	-		-8.2		545.0		+179	-165	1,221,318 457,116
1184	573		315° 20'	--	12.0	-		-12.0		541.2		+400	-411	1,221,539 456,870
1185	903		~ 0'	--	11.0	-		-11.0		542.2		+630	-647	1,221,769 456,634
1186	1233		315° 10'	--	5.1	TM	+6.2	+1.1		554.3		+858	-886	1,221,997 456,395
1187	1562		314° 45'	--	7.9	89° -	+27.3	+19.4		572.6		+1078	-1130	1,222,217 456,151
TP	1579		314° 15' 10"	--	6.8	89° -	+27.6	+20.8		574.0	TP	+1080	-1152	1,222,219 456,128
TP	1579				6.7	271° -	+27.6	+20.9			TP		-1	
	312		132° 36' 56"	-1.1	+7.8	91° -	+5.4	+13.2	587.2		BS	+207	-234	
	312				+6.9	91° 10'	+6.4	+13.3		BS			-1	
1188	0				5.1	-		-5.1		582.1	TP	0	0	1,222,426 455,893
1189	330		320° 15'	--	5.0	-		-5.0		582.2		+250	-216	1,222,676 455,677
TP	617		314° 55' 34"	--	5.1	90° 40'	-7.2	-12.3	574.9		TP	+427	-445	1,222,853 455,447
TP	617				3.4	90° 50'	-9.0	-12.4		TP			-1	
	887		117° 52' 13"	--	+5.3	91° -	+15.5	+20.8	595.7		BS	+399	-792	
	887				+5.2	269° -	+15.5	+20.7		BS			-1	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-16-85		B. Cotcamp		K. Greenfield		6834		B.C.		23 ext		119			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ALABAMA		WILLINGTON		ALA.		CALHOUN								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									595.7						
1190	846		117° 50'	-1.1°	3.5	91° 10'	-17.2	-20.7		575.0		-381	+756	1,222,871	455,410
1191	516		117° 35'	-	7.8	90° 40'	-6.0	-13.8		581.9		-230	+462	1,223,022	455,116
1192	188		112° 15'	-	8.1	90° 40'	-2.2	-10.3		585.4		-68	+175	1,223,184	454,829
TP	0				5.1	-		-5.1		590.6	TP	0	0	1,223,252	454,654
1193	154		323° 05'	-1.1°	6.7	89° 40'	+0.9	-5.8		589.9		+121	-95	1,223,373	454,559
1194	152		319° 38' 16"	-	6.2	89° 40'	+0.9	-5.3		590.4	TP	+114	-101	1,223,366	454,553
1194	481		313° 04' 34"	-	9.6	90° 40'	-5.6	-15.2		580.5	TP	+322	-358	1,223,574	454,295
1194	481			-	8.1	90° 50'	-7.0	-15.1			TP		-		
	472		159° 04' 51"	-	+6.4	-		+6.4		586.9	BS	+438	-177		
	472			-	+4.1	84	+2.4	+6.5			BS		-		
1195	149		172° 10'	-	10.8	-		-10.8		576.1		-147	+23	1,223,865	454,140
TP	0				5.1	-		-5.1		581.8	TP	0	0	1,224,012	454,117
1196	181		352° 15'	-	7.8	89° -	+3.2	-4.6		582.3		+179	-28	1,224,191	454,089
1197	511		349° 45'	-	6.7	89° -	+8.9	+2.2		589.1		+501	-101	1,224,513	454,016
1198	841		349° 10'	-	8.3	89° -	+14.7	+6.4		593.3		+823	-174	1,224,835	453,943
1199	1171		348° 55'	-	5.2	89° -	+20.4	+15.2		602.1		+1145	-247	1,225,157	453,870
1200	1501		-	-	5.5	88° 40'	+34.9	+29.4		616.3		+1467	-317	1,225,479	453,800
TP	1776		348° 48' 32"	-	6.3	88° 46'	+38.2	+31.9		618.8	TP	+1735	-378	1,225,747	453,738
TP	1776			-	6.2	2714	+38.2	+32.0			TP		-		

y=1,223,390 x=454,590
1/2 T-Zute

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-16-85		B. Cotamp		K. Greenfield		6834		R.C.		23 244		119			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ALABAMA		WELLINGTON		ALA.		CALHOUN								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
										618.8					
	711		167° 54' 50"	-1.1	+3.2	89°	-12.4	-9.2	609.6		BS	+692	-162		
	711				+1.2	89° 10'	-10.3	-9.1		BS					
1201	658		167° 35'	-	7.6	88° 50'	+13.4	+5.8		615.4		-640	+154	1,225,799	453,729
1202	330		163° 50'	-	13.2	88° 50'	+6.7	-6.5		603.1		-315	+98	1,226,124	453,623
1203	0				5.1	-		-5.1		604.5	TP	0	0	1,226,439	453,575
1204	330		335° 30'	-1.1	8.6	88° 50'	+6.7	-1.9		607.7		+298	-143	1,226,737	453,432
Y	329		334° 18'	-	5.8	89° 18'	+4.0	-1.8		607.8	Y	+294	-148	1,226,733	453,427
1205	659		333° 50'	-	7.2	89° 20'	+7.7	+0.5		616.1		+586	-302	1,227,025	453,273
TP	866		334° 13' 30"	-1.3	2.8	89° 20'	+10.1	+7.3		616.9	TP	+771	-394	1,227,210	453,180
TP	866				5.4	89° 10'	+12.6	+7.2		TP					
	458		182° 55' 22"	-	+9.5	91°	+8.0	+17.5	634.4		BS	+458	+13		
	458				+8.2	91° 10'	+9.3	+17.5		BS					
1206	330		182° 45'	-	6.2	91° 30'	-8.6	-14.8		619.6		-330	-8	1,227,338	453,184
1207	0				5.1	-		-5.1		629.3	TP	0	0	1,227,688	453,192
1208	329		9° 20'	-	8.8	89° 30'	+2.9	-5.9		628.5		+326	+46	1,227,994	453,239
1209	657		5° 12' 47"	-	3.5	89° 20'	+7.6	+4.1		638.5	TP	+655	+45	1,228,323	453,236
1209	657				5.4	89° 10'	+9.6	+4.2		TP					
	1090		179° 31' 50"	-1.3	+13.1	-		+13.1	651.6		BS	+1089	-34		
	1090				+7.7	BH	+5.5	+13.2		BS					

y = 1,226,730
x = 453,460

Wellington ↑
Glencoe ↓

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-16-85		B. Cotcamp		K. Greenfield		6834		B.C.		23 ext		120			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ALABAMA		GLENCOE		ALA.		ETOWAH								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
									651.6						
1210	760		179° 45'	-1.3	8.1	-		-8.1		643.5		-760	+21	1,228,652	453,222
1211	430		--	--	6.7	-		-6.7		644.9		-430	+12	1,228,982	453,213
1212	100		--	--	6.6	-		-6.6		645.0	#	-100	+3	1,229,312	453,204
X	0				5.1	-		-5.1		646.5	X	0	0	1,229,412	453,201
TP	54		353° 23' 40"	-1.3	4.9	87°	+2.8	-2.1		649.5	TP	+53	-7	1,229,465	453,194
1213	198		306° 25'	-	6.4	87°	+10.3	+3.9		655.5		+114	-162	1,229,526	453,039
1214	527		306° 50'	--	10.3	87°	+27.5	+17.2		668.8		+306	-429	1,229,718	452,772
TP	658		304° 48' 50"	--	6.9	87° 30'	+28.7	+21.8		673.4	TP	+363	-548	1,229,775	452,652
TP	658				5.0	87° 40'	+26.8	+21.8			TP		-		
	389		116° 35' 05"	-1.3	+5.4	93°	+20.3	+25.7	699.1		BS	+166	-351		
	389				+4.3	93° 10'	+21.5	+25.8			BS		-		
1215	194		117° 20'	--	6.8	92°	-6.8	-13.6		685.5		-85	+174	1,229,856	452,474
X	0				5.1	-		-5.1		694.0	X	0	0	1,229,941	452,300
1216	139		317° 15'	--	6.4	89°	+2.4	-4.0		695.1		+100	-97	1,230,041	452,203
1217	468		311° 40'	--	8.0	88°	+16.3	+8.3		707.4		+303	-357	1,230,241	451,943
TP 1218	799		310° 22' 39"	--	5.6	88° 10'	+25.6	+20.0		719.1	TP	+503	-620	1,230,444	451,679
1218	799				3.3	88° 20'	+23.2	+19.9			TP		-		
	391		147° 44' 15"	-1.3	+13.1	91°	+6.8	+19.9	739.0		BS	+326	-216		46 1/2
	391				+11.9	91° 10'	+8.0	+19.9			BS		-		
1219	66		127° 40'	-	6.7	87°	+3.4	-3.3		735.7		-39	+53	1,230,731	451,515

CALHOUN County
ETOWAH County
y = 1,229,490 x = 453,200
TP T-Inter.

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	5-17-85	INSTRUMENT MAN	B. Cotcamp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	T.B.C.	LINE NO.	23 ent.	PAGE	121	
AREA	ALABAMA	TOPO MAP	Glencoe	STATE	ALA.	COUNTY	ETOWAH	TWP		RANGE		PPM	PARTY MANAGER	W. Cassidy

STATION NO.	SLOPE DISTANCE	PLOTting DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									739.0					
π	0				5.1	-		-5.1		733.9	π	0	0	1,230,770 451,462
1220	246		246 35'	-1.3	5.6	92 30	-10.7	-16.3		722.7		-126	-211	1,230,644 451,251
TP	390		241 36 55	--	3.9	93	-20.4	-24.3		714.7	TP	-193	-338	1,230,576 451,123
TP	390				3.8	267	-20.4	-24.2			TP	-1	-1	
	317		70 34 58	--	3.1	87	-16.6	-13.5		701.2	BS	-112	-296	
	317				2.1	87 10	-15.7	-13.6			BS	-1	-1	
1221	134		60 50	-1.3	6.6	86 -	+9.3	+2.7		703.9		+68	+116	1,230,531 450,942
π	0				5.1	-		-5.1		696.1	π	0	0	1,230,463 450,828
1222	195		246 35'	--	7.5	92 30	-8.5	-16.0		685.2		-82	-177	1,230,381 450,649
TP	364		244 27 10	--	8.3	92 30	-15.9	-24.2		677.0	TP	-164	-324	1,230,298 450,502
TP	364				5.2	93 -	-19.0	-24.2			TP	-1	-1	
	489		71 32 12	-1.3	5.0	87	-25.6	-20.6		656.4	BS	-165	-460	
	489				3.6	87 10	-24.1	-20.5			BS	-1	-1	
1223	330		69 10	--	6.6	86 50	+18.2	+11.6		668.0		+124	+306	1,230,256 450,348
1224	0				5.1	-		-5.1		651.3	π	0	0	1,230,132 450,042
1225	330		239 40'	--	10.2	91 50	-10.6	-20.8		635.6		-173	-281	1,229,959 449,761
1226	659		239 21 26	-	10.3	92 50	-32.5	-42.8		613.6	TP	-348	-559	1,229,783 449,483
1226	659				8.4	93 -	-34.4	-42.8			TP	-1	-1	

↑
GLENCOE

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
5-17-85		B. Cotcamp		K. Greenfield		6834		B.C.		23 ext.		122				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
ALABAMA		Dunaway Mtn.		ALA.		ETOWAH								W. Cassidy		
STATION NO.	SLOPE DISTANCE	PLOTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH+ SOUTH-	EAST+ WEST-		LAT.	DEP.
										613.6						
	810		70° 44' 00"	-1.3	+1.9	87° -	-42.3	-40.4	573.2		BS	-284	-757			
	810				+4.2	86° 50'	-44.7	-40.5		BS	-1					
1227	478		70° 35'	--	6.6	87° 10'	+23.6	+17.0		590.2		+169	+447	1,229,667	449,173	
1228	150		63° 50'	--	7.7	88° 10'	+4.8	-2.9		570.3		+69	+133	1,229,567	448,859	
π	0				5.1	-		-5.1		568.1	π	0	0	1,229,498	448,726	new fence
1229	196		279° 50'	-1.3	7.9	90° 10'	-0.6	-8.5		564.7		+29	-194	1,229,527	448,532	
1230	524		274° 20'	--	9.3	90° 10'	-1.5	-10.8		562.4		+28	-523	1,229,526	448,203	
1231	854		274° 50'	--	9.7	90° 10'	-2.5	-12.2		561.0		+53	-852	1,229,551	447,874	
1232	1184		275° 10'	--	5.9	90° 10'	-3.4	-9.3		563.9		+80	-1181	1,229,578	447,545	
1233	1513		275° 03' 04"	--	7.2	90° 10'	-4.4	-11.6		561.6	TP	+99	-1510	1,229,576	447,216	
1233	1513				7.1	269° 50'	-4.4	-11.5			TP	-1				
	791		95° 59' 34"	-1.3	+5.8	-		+5.8	567.4		BS	+65	-788			
	791				+5.7	270° -		+5.7		BS	-1					
1234	461		94° 40'	--	5.1	91° 30'	-12.1	-17.2		550.2		-27	+460	1,229,633	446,888	
1235	132		90° 30'	-	8.4	91° 30'	-3.5	-11.9		555.5		+2	+132	1,229,662	446,560	
π	0				5.1	-		-5.1		562.3	π	0	0	1,229,660	446,428	
1236	161		242° 10'	--	6.3	90° -		-6.3		561.1		-78	-141	1,229,582	446,287	
π	68		279° 34' 05"	--	3.5	90° 30'	-0.6	-4.1		563.3	π	+10	-67	1,229,670	446,361	y=1,229,710 x=446,350 TT T - J.W.C.
1237	486		232° 20'	-	10.7	-		-10.7		556.7		-306	-378	1,229,354	446,050	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
5-17-85		B. Cotcamp		K. Greenfield		6834		B. C.		23 ext.		123				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
ALABAMA		DUNAWAY Mtn.		ALA.		ETOWAH								W. Cassidy		
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
									567.4							
1238	816		235° 08' 52"	-1.3°	8.9	-		-8.9		558.5	TP	-481	-659	1,229,178	445,769	ACROSS STA.
1238	816				13.0	TU	+4.1	-8.9			TP	-1				
	1190		64° 42' 38"	--	+9.7	90° 50'	+17.3	+27.0	585.5		BS	-533	-1064			
	1190				+9.6	269° 10'	+17.3	+26.9			BS	-1				
1239	862		64° 55'	--	7.4	90° 50'	-12.5	-19.9		565.6		+383	+772	1,229,027	445,477	
1240	532		--	--	8.4	90° 20'	-3.1	-11.5		574.0		+236	+477	1,228,880	445,182	
1241	203		61° 50'	--	6.5	89° 20'	+2.4	-4.1		581.4		+100	+177	1,228,744	444,882	
	0				5.1	-		-5.1		580.4	X	0	0	1,228,644	444,705	
1242	133		261° 50'	-1.3°	7.0	90° 20'	-0.8	-7.8		577.7		-22	-131	1,228,622	444,574	
1243	462		259° 35'	--	10.3	90° 20'	-2.7	-13.0		572.5		-94	-452	1,228,550	444,263	
1244	782		266° 09' 54"	--	14.3	90° 14'	-3.2	-17.5		568.0	TP	-70	-779	1,228,573	443,926	"21"
1244	782				14.2	269° 46'	-3.2	-17.4			TP	-1				
	2093		108° 57' 36"	-1.3°	+10.1	91° 10'	+42.6	+52.7	620.7		BS	+635	-1994			
	2093				+10.0	268° 50'	+42.6	+52.6			BS	-1				
1245	1763		108° 55'	--	8.4	91° 10'	-35.9	-44.3		576.4		-534	+1680	1,228,673	443,612	
1246	1433		108° 50'	--	4.7	91° 10'	-29.2	-33.9		586.8		-432	+1366	1,228,715	443,298	
1247	1103		108° 25'	--	7.0	91° 10'	-22.5	-29.5		591.2		-325	+1054	1,228,882	443,964	
1248	774		108°	--	7.7	91° 10'	-15.8	-23.5		597.2		-222	+741	1,228,985	442,673	
1249	445		106° 35'	--	9.7	90° 10'	-1.3	-11.0		609.7		-117	+429	1,229,090	442,361	
1250	116		98° 25'	--	5.0	90° 10'	-0.3	-5.3		615.4		-14	+115	1,229,193	442,047	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-17-85		B. Cotcamp		K. Greenfield		6834		B. C.		23 24		124			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ALABAMA		Dunaway Mtn.		ALA.		ETOWAH								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
									620.7						
11	86		101° 47' 30"	-1.3	4.6	90° 10'	-0.3	-4.9		615.8		-16	+85	1,229,191	442,017
π	0				5.1	-		-5.1		615.6	π	0	0	1,229,207	441,932
1251	217		296° -	--	6.8	90° 10'	-0.6	-7.4		613.3		+91	-197	1,229,298	441,735
1252	546		292° 20'	--	10.0	91° 10'	-11.1	-21.1		599.6		+196	-510	1,229,403	441,422
1253	878		292° 41' 33"	--	9.1	91° 30'	-23.0	-32.1		588.6	TP	+320	-817	1,229,526	441,115
1253	878				9.0	268° 30'	-23.0	-32.0			TP				
	1331		133° 19' 22"	-1.3	6.0	88° 20'	-38.7	-32.7	555.9		BS	+891	-988		
	1331				2.1	88° 30'	-34.8	-32.7			BS	-1			
1254	999		134° -	--	8.0	88° 20'	+29.0	+21.0		576.9		-677	+734	1,229,739	440,861
1255	669		-	--	8.0	88° 20'	+19.4	+11.4		567.3		-454	+492	1,229,962	440,619
1256	339		-	--	7.1	88° 20'	+9.9	+2.8		558.7		-230	+249	1,230,186	440,376
1257	9		-	--	5.1	-		-5.1		550.8		-6	+7	1,230,410	440,134
π	0				5.1	-		-5.1		550.8	π	0	0	1,230,416	440,127
1258	320		319° -	-1.3	7.2	90° 40'	-3.7	-10.9		545.0		+237	-215	1,230,653	439,912
π	318		312° 45' 30"	-	6.4	90° 40'	-3.7	-10.1		545.8	π	+211	-238	1,230,627	439,889
11	2271		0° 39' 30"	-	8.8	90° 10'	-6.6	-15.4		540.6	TP	+2271	-25	1,230,686	440,102
11	2271				8.5	269° 50'	-6.6	-15.1	-15.3		TP	-1			
	2550		92° 53' 55"	-1.5	11.2	-		+11.2	551.8		BS	+62	-2549		
	2550				11.1	270° -		+11.1			BS	-1			

$y = 1,230,500$
 $x = 439,890$
 TP T-Inter
 * 2271' offset north
 $y = 1,232,700$
 $x = 440,100$
 TP T-Inter

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-17-85		B. Cotcamp		K. Greenfield		6834		B.C.		23 out		125			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ALABAMA		DUNAWAY Mtn.		ALA.		ETOWAH								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
									551.8						
1259	2221		92° 40'	-1.5	12.2	--		-12.2		539.6		-45	+2221	1,232,702	439,774
1260	1891		--	--	12.0	--		-12.0		539.8		-39	+1891	1,232,708	439,444
1261	1561		--	--	7.0	--		-7.0		549.8		-32	+1561	1,232,715	439,114
1262	1231		--	--	8.0	--		-8.0		543.8		-25	+1231	1,232,722	438,784
1263	901		92° 40'	-1.5	8.2	--		-8.2		543.6		-18	+901	1,232,729	438,454
1264	571		--	--	8.1	--		-8.1		543.7		-12	+571	1,232,735	438,124
1265	241		--	--	5.2	--		-5.2		546.6		-5	+241	1,232,742	437,794
TP	0				5.1	--		-5.1		546.7	X	0	0	1,232,747	437,553
1266	94		293° 30'	--	6.2	91°	-1.6	-7.4		544.0		+35	-87	1,232,782	437,466
1267	424		292° 10'	--	10.0	91°	-7.4	-17.4		534.4		+150	-397	1,232,897	437,156
1268	753		293° 10'	--	7.7	91°	-13.1	-20.8		531.0		+278	-700	1,233,025	436,853
1269	1083		293°	-1.5	9.8	90° 30'	-9.5	-19.3		532.5		+397	-1008	1,233,144	436,545
1270	1413		--	--	5.0	90° 30'	-12.3	-17.3		534.5		+518	-1315	1,233,265	436,238
1271	1742		294° 20'	--	4.5	90° 20'	-10.1	-14.6		537.2		+676	-1605	1,233,423	435,948
IF	1799		294° 20' 48"	--	4.1	90° 20'	-10.5	-14.6		537.2	IF	+698	-1658	1,233,445	435,895
TP	1945		294° 52' 53"	--	4.0	90° 20'	-11.3	-15.3		536.5	TP	+772	-1785	1,233,519	435,768
TP	1945				3.9	269° 40'	-11.3	-15.2			TP				
	958		116° 37' 46"	--	9.3	89°	-16.7	-7.4	529.1		BS	+407	-867		
	958				6.6	89° 10'	-13.9	-7.3			BS				

IF 1,233,445 X = 435,895
 TP 4 WAY Jct.
 Horiz - 16
 Cor'd. X - 22

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
5-17-85		B. Cotcamp		K. Greenfield		6834		B.C.		23 ext.		126				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
ALABAMA		Dunaway Mtn.		ALA.		ETOWAH								W. Cass, Jr.		
STATION NO.	SLOPE DISTANCE	PLOTTING 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
									529.1							
1272	832		115° 45'	-1.5	6.7	89° 10'	+12.1	+5.4		534.5		-342	+759	1,233,584	435,660	
1273	502		115° 10'	--	8.1	89° 10'	+7.3	-0.8		528.3		-202	+460	1,233,724	435,361	
1274	173		117° 40'	--	6.7	88° 10'	+5.5	-1.2		527.9		-76	+155	1,233,850	435,056	
TP	0				5.1	-	-	-5.1		524.0	TP	0	0	1,233,926	434,901	near truck
1275	156		305° 40'	-1.5	9.6	89° 40'	+0.9	-8.7		520.4		+88	-129	1,234,014	434,772	
71	129		299° 52' 22"	--	9.0	89° 40'	+0.8	-8.2		520.9	71	+61	-114	1,233,987	434,787	1,233,980 x = 434,805 7-201e.
1276	486		305° 40'	--	12.4	89° 40'	+2.8	-9.6		519.5		+273	-402	1,234,199	434,499	
1277	815		304° 50'	--	10.4	89° 40'	+4.7	-5.7		523.4		+448	-681	1,234,374	434,220	
1278	1144		303° 10'	--	6.5	89° 40'	+6.7	+0.2		529.3		+601	-974	1,234,527	433,927	
1279	1472		301° 55'	--	7.2	89° 40'	+8.6	+1.4		530.5		+745	-1269	1,234,671	433,632	
TP	1732		301° 19' 57"	--	5.3	89° 50'	+5.0	-0.3		528.8	TP	+862	-1502	1,234,788	433,399	
TP	1732				5.2	270° 10'	+5.0	-0.2			TP					
	1054		125° 24' 04"	-1.5	4.4	-	-	+4.4		533.2	BS	+588	-875			
	1054				9.7	TH	-5.3	+4.7			BS					
1280	984		125° 50'	--	9.1	TH	+4.9	-4.2		529.0		-555	+813	1,234,821	433,337	
1281	658		130° -	--	8.3	TH	+3.3	-5.0		528.2		-410	+515	1,234,966	433,039	
1282	330		133° -	--	4.9	-	-	-4.9		528.3		-219	+247	1,235,157	432,771	
1283	0				5.1	-	-	-5.1		528.1	TP	0	0	1,235,376	432,524	
1284	330		313° 55'	-1.5	5.6	-	-	-5.6		527.6		+223	-244	1,235,599	432,280	
1285	660		313° 50'	--	5.4	-	-	-5.4		527.8		+444	-488	1,235,820	432,036	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	5-17-84	INSTRUMENT MAN	B. C. Camp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	B.C.	LINE NO.	23 ext.	PAGE	127
AREA	ALABAMA	TOPO MAP	Danaway Mtn.	STATE	ALA.	COUNTY	ETOWAH	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.	
									533.2					
1286	990		312° 25'	-1.5	7.2	-		-7.2		526.0		+648	-748	1,236,024 431,776
1287	1318		311° 25'	--	7.1	-		-7.1		526.1		+846	-1011	1,236,222 431,513
7/8	1518		310° 44' 07"	--	13.2	TH	+7.6	-5.6		527.6	7/8	+960	-1176	1,236,336 431,348 7/8 y=1,236,310 x=431,340 7/8 4 way Inter.
1288	1648		311° 26'	--	5.7	-		-5.7		527.5		+1056	-1266	1,236,432 431,258
TP	1843		311° 11' 28"	--	5.3	-		-5.3		527.9	TP	+1177	-1418	1,236,553 431,106
TP	1843				5.2	270° -		-5.2			TP			
	1127		143° 57' 21"	-1.5	+2.8	-		+2.8	530.7		BS	+894	-687	
	1127				+8.4	TH	-5.6	+2.8			BS			
1289	990		143° 10'	--	7.2	TH	+5.0	-2.2		528.5		-777	+614	1,236,676 431,033
1290	660		-	--	5.9	TH	+3.3	-2.6		528.1		-518	+409	1,236,929 430,828
7/1	409		144° 03' 48"	--	4.0	TH	+2.0	-2.0		528.7	7/1	-325	+249	1,237,122 430,668 7/1 y=1,237,100 x=430,640 7/1 T-Inter.
1291	330		143° 10'	--	7.9	89° -	+5.8	-2.1		528.6		-259	+205	1,237,188 430,624
1292	0				5.1	-		-5.1		525.6	X	0	0	1,237,447 430,419
7/1	266		327° 42' 21"	-1.5	10.6	-		-10.6		520.1	7/1	+221	-148	1,237,668 430,271 7/1 y=1,237,670 x=430,245 7/1 Fence Line EL 520.0
1293	330		331° -	--	5.6	91° -	-5.8	-11.4		519.3		+284	-167	1,237,731 430,252
7/1	406		331° 34' 16"	--	10.5	90° 0'	-1.2	-11.7		519.0	7/1	+352	-203	1,237,799 430,216 7/1 y=1,237,830 x=430,195 7/1 creek
1294	650		339° 18'	--	11.6	-		-11.6		519.1		+602	-246	1,238,049 430,173 E.O.L. Line #23