

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc. Client: COCORP.

DATE 5-10-78	INSTRUMENT MAN G. Cotcamp	ROD MAN F. Tellez	PARTY NUMBER 6834	NOTES CHECKED BY G.W.C.	LINE NO. 3	PAGE 1 of 28
AREA CHARLESTON, S.C.	TOPO MAP Stallville + Ravenel 7 1/2	STATE South Carolina	COUNTY Dorchester	TWP 	RANGE 	PPM
				PARTY MANAGER L.O. Davis		

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
BM				3°36'						12.0	R			380,780 2,243,610	U.S.G.S. 1954 12.0
	1270		299°14' -180°	3.6'	+6.5	-	+6.5	18.5			BS	-549	+1145H		12 SKS 1954
	1270				+12.8	TH	-6.4	+6.4			BS				B.M. was found
TP	346		98°58'	-36°	6.6	-	-6.6		11.9		TP	-32	+344H	380,199 2,245,101	leaning on side
TP	346				8.3	TH	+1.7	-6.6			TP				
	830		308°5' -180°	-36°	+4.1	-	+4.1	16.0			BS	-470	+684H		
	830				+8.3	TH	-4.2	+4.1			BS				
TP	445		137°06'	-36°	7.0	89°22'	+4.9	-2.1			TP	-306	+323H	379,423 2,246,110	
TP	445				8.5	89°10'	+6.5	-2.0		14.0	TP				
	470		320°25' -180°	-36°	+4.6	-	+4.6	18.6			BS	-343	+322H		
	470				+6.9	TH	-2.4	+4.5			BS				
TP	420		129°10'	-36°	4.9	-	-4.9		13.7		TP	-244	+342H	378,836 2,246,776	
TP	420				7.0	TH	+2.1	-4.9			TP				
	285		289°52' -180°	-36°	+5.8	-	+5.8	19.5			BS	-80	+274H		
	285				+7.2	TH	-1.4	+5.8			BS				
TP	433		94°03'	-36°	6.9	-	-6.9				TP	-3	+433H	378,753 2,247,485	
TP	433				9.0	TH	+2.2	-6.8		12.7	TP				
	480		288°23' -180°	-36°	+3.5	-	+3.5	16.2			BS	-122	+464H		
	480				+5.9	TH	-2.4	+3.5			BS				
Station #	270		177°5'	-36°	6.5	TH	+1.4	-5.1		11.1	TP	-269	+27	378,362 2,247,977	in woods
Station #	270				9.9	89°	+4.7	5.2			TP				

From
 Traverse
 Horizontal
 Vertical
 B.M. east of Station 1.

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5/10/78		G. Cotcamp		F. Tellez		6837		G.W.C.		3		2			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Charleston		Ravenel 7 1/2'		South Carolina		Charleston/Dorchester								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
1										11.1					
	220		227°36'-180°	-36°	+5.1	-		+5.1	16.2		BS	+158.	+153.		
	220				+6.2	TH	-1.1	+5.1		BS					
2	0				5.3	-		-5.3	10.9		X	0	0	378,520	2,248,130
3	220		48°05'	-36°	4.8	-		-4.8	11.4		TP	+157	+154	378,677	2,248,284
3	220				5.9	TH	+1.1	-4.8		TP					
	220		256°21'-180°	-36°	+5.1	-		+5.1	16.5		BS	+65.	+210		
	220				+6.2	TH	-1.1	+5.1		BS					
4	0				5.4	-		-5.4	11.1		X	0	0	378,742	2,248,494
5	220		64°54'	-36°	4.6	-		-4.6	11.9			+106	+193	378,848	2,248,687
6	440		64°54'	-36°	4.1	-		-4.1	12.4			+211	+386	378,953	2,248,880
7	660		64°18'	-36°	7.2	-		-7.2	9.3		TP	+323-1	+576	379,064	2,249,070
7	660		" "		10.5	TH	+3.3	-7.2		TP					
	220		229°09'-180°	-36°	+5.2	-		+5.2	14.5		BS	+154-1	+157.		
	220				+6.3	TH	-1.1	+5.2		BS					
8	0				5.4	-		-5.4	9.1		X	0	0	379,217	2,249,227
9	220		47°21'	-36°	5.1	-		-5.1	9.4			+159	+152	379,376	2,249,379
	380		47°21'	-36°	5.1	-		-5.1	9.4			+274	+263	379,491	2,249,490
10	440		" "	-36°	5.4	-		-5.4	9.1			+318	+304	379,535	2,249,531
11	660		48°05'	-36°	5.2	-		-5.2	9.3		TP	+471-1	+462	379,687	2,249,689
11	660				1.9	BH	-3.3	-5.2		TP					

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DATE 5/10/78	INSTRUMENT MAN G.C. Cotcamp	ROD MAN F. Tellez	PARTY NUMBER 6834	NOTES CHECKED BY G.W.C.	LINE NO. 3	PAGE 3
AREA Charleston	TOPO MAP	STATE South Carolina	COUNTY Dorchester	TWP	RANGE	PPM
				PARTY MANAGER L.O. Davis		

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS
												LAT.	DEP.	Y	X			
11										9.3								
	1540		241°37' -180°	-3.6°	+5.5	-		+5.5			BS	+816-1	+1306					
	1540				+8.3	TH	-7.7	+5.6	14.9		BS							
12	1320		241°20'	-3.6°	5.5	-		-5.5		9.4		-705	-1116	379,797	2,249,879			
13	1100		241°08'	-3.6°	5.3	-		-5.3		9.6		-590	-928	379,912	2,250,067	last sta. in Ravenel 7 1/2		
14	880		240°55'	-3.6°	5.3	-		-5.3		9.6		-475	-741	380,027	2,250,254	1st. sta. in Stallsville 7 1/2		
15	660		240°38'	-3.6°	5.5	-		-5.5		9.4		-359	-554	380,143	2,250,441			
16	440		240°06'	-3.6°	5.0	-		-5.0		9.9		-243	-367	380,259	2,250,628			
17	220		238°29'	-3.6°	5.0	-		-5.0		9.9'		-127	-180	380,375	2,250,815			
18	0			5.4	5.4	-		-5.4		9.5	TP	0	0	380,502	2,250,995	set up opposite station		
19	220		59°50'	-3.6°	2.4	-		-2.4		12.5		+138	+172	380,640	2,251,167			
20	440		54°56'	-3.6°	1.2	-		-1.2		13.7	TP	+275-1	+344	380,776	2,251,339			
20	440				3.4	TH	+2.2	-1.2			TP							
	220		247°01' -180°	-3.6°	+3.9	-		+3.9	17.6		BS	+98-1	+197					
	220				+5.0	TH	-1.1	+3.9			BS							
21	0				5.4	-		-5.4		12.2	TP	0	0	380,873	2,251,536			
22	220		51°10'	-3.6°	4.5	-		-4.5		13.1		+148	+162	381,021	2,251,698			
23	440		50°10'	-3.6°	7.2	TH	+2.2	-5.0		12.6	TP	+303-1	+320	381,175	2,251,856			
23	440				7.6	89°40'	+2.6	-5.0			TP							
	1100		229°02' -180°	-3.6°	+9.7	-		+9.7	22.3		BS	+772-1	+784					
	1100				+4.2	BT	+5.5	+9.7			BS							

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5/10/78		G. Cotcamp		F. Tellez		6834		G.W.C.		3		4			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Charleston		Stallville 7 1/2'		South Carolina		Dorchester								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									223						
24	970		229°13'	-36°	8.8	-	-8.8		13.5			-678	-693	381,268	2,251,947 Y-intersect. (south)
24	880		229°02'	-36°	8.9	-	-8.9		13.4			-618	-627	381,328	2,252,013
25	660		" "	-36°	8.2	-	-8.2		14.1			-463	-470	381,483	2,252,170
26	440		" "	-36°	7.5	-	-7.5		14.8			-309	-313	381,637	2,252,327
27	220		" "	-36°	7.2	-	-7.2		15.1			-154	-157	381,792	2,252,483
28	0				5.4	-	-5.4		16.9			0	0	381,946	2,252,640
29	220		48°07'	-36°	3.6	-	-3.6		18.7			+157	+154	382,103	2,252,794
	220		" "		3.6	-									Y-intersect
30	440		" "	-36°	2.0	-	-2.0		20.3			+314	+308	382,260	2,252,948
31	660					-									
31	505		48°40'	-36°	1.4	-	-1.4		20.9			+357	+358	382,303	2,252,998 Y-intersect. (south)
31	660		48°07'	-36°	1.0	-	-1.0		21.3			+471	+463	382,417	2,253,103
32	880		48°41'	-36°	9.3	TH	+4.4	+0.1	22.4			+621	+623	382,567	2,253,263
33	8 1100		" "	-36°	3.7	TH	+5.5	+1.8	24.1		TP	+777-1	+779	382,722	2,253,419
33	1100		48°41'	-36°	4.7	89°40'	+6.4	+1.7			TP				
	660		249°41'-186°	-36°	+2.0	91°-	+11.5	+13.5	37.6		BS	+268-1	+603		
	660				+4.7	90°46'	+8.8	+13.5			BS				
34	550		250°29'	-36°	11.6	-	-11.6		26.0			-216	-506	382,777	2,253,516 (intersect. Middleton)
34	440		" "	-36°	2.2	91°-	-7.7	-9.9	27.7			-173	-405	382,820	2,253,617 (unt. Club)
35	220		" "	-36°	2.3	91°-	-3.8	-6.1	31.5			-86	-202	382,907	2,253,820

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5/10/78		G. Cotcamp		F. Tellez		6834		G.W.C.		3	5						
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
Charleston		Stallville 7 1/2'		South Carolina	Dorchester					L.O. Davis							
STATION NO.	SLOPE DISTANCE	PLOTting DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS	
												LAT.	DEP.	Y	X		
									37.6								
36	180		252°12'	-36°	5.4	-		-5.4		32.2		-66	-168	382,923	2,253,854	T-intersect (south)	
37	0				5.4	-		-5.4		32.2	X	0	0	382,989	2,254,022		
38	220		75°10'	-36°	4.5	-		-4.5		33.1		+70	+209	383,059	2,254,231	unable to locate	
39	440		" "	-36°	5.4	-		-5.4		32.2		+139	+417	383,128	2,254,437	B.M.	
39	660		71°45'	-36°	4.8	90°08'	-1.5	-6.3		31.3	TP	+246	+613	383,235	2,254,635		
	660				5.2	90°06'	-1.2	-6.4			TP						
	880		254°48'-180°	-36°	+2.8	-		+2.8	34.1		BS	+284	+833				
	880		" "		+7.2	TH	-4.4	+2.8			BS						
40	660		" "	-36°	2.9	-		-2.9		31.2		-213	-625	383,306	2,254,843		
41	440		" "	-36°	2.8	-		-2.8		31.3		-142	-417	383,377	2,255,051		
42	220		" "	-36°	3.8	-		-3.8		30.3		-71	-208	383,448	2,255,260		
43	0				5.4	-		-5.4		28.7	X	0	0	383,519	2,255,468		
44	220		65°04'	-36°	3.6	91°	3.8	-7.4		26.7		+105	+193	383,624	2,255,661		
45	440		" "	-36°	5.2	90°20'	-2.6	-7.8		26.3		+210	+387	383,729	2,255,855		
46	595		64°38'	-36°	6.8	-		-6.8		27.3		+288	+521	383,807	2,255,989	T-intersect (N.W.-under	
46	660		65°04'	-36°	7.3	-		-7.3		26.8		+315	+580	383,834	2,256,048	powerline)	
47	880		64°33'	-36°	6.2	-		-6.2		27.9	TP	+427	+769	383,946	2,256,237	T.P. opposite station	
47	880				10.6	TH	+4.4	-6.2			TP						
	222		260°50'-180°	-36°	+6.6	-		+6.6	34.5		BS	+49	+217				
	222				+7.7	TH	-1.1	+6.6			BS						

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5/10/78		G. Cotcamp		F. Tellez		6834		G.W.C.		3	6								
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER									
Charleston		Stallsville 7 1/2'		South Carolina	Dorchester					L.O. Davis									
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS	
												LAT.	DEP.	Y	X				
									34.5										
48	0				5.4	-		-5.4		29.1'	X	0	0	383,995	2,256,454				
	125		84°06'	-36°	5.6	-		-5.6		28.9'		+21	+123	384,016	2,256,577				Trail (southeast)
49	220		85°15'	-36°	6.3	-		-6.3		28.2		+32	+218	384,027	2,256,672				
50	440		84°40'	-36°	7.6	-		-7.6		26.9	TP	+68	+435	384,063	2,256,887				
50	440				9.8	TH	+2.2	-7.6			TP								
	440		246°41'-180°	-36°	+6.2	-		+6.2	33.1		BS	+199	+392						
	440				+4.0	BH	+2.2	+6.2			BS								
51	220		244°36'	-36°	4.6	-		-4.6		28.5		-107	-192	384,155	2,257,089				
52	0				5.4	-		-5.4		27.7	X	0	0	384,262	2,257,281				
53	220		63°34'	-36°	5.0	-		-5.0		28.1		+110	+190	384,372	2,257,471				
54	440		" "	-36°	3.6	-		-3.6		29.5		+220	+381	384,482	2,257,662				
55	660		" "	-36°	3.0	-		-3.0		30.1		+330	+571	384,592	2,257,852				
56	880		" "	-36°	2.3	-		-2.3		30.8		+440	+762	384,702	2,258,043				
57	1100		" "	-36°	1.7	-		-1.7		31.4		+551	+952	384,813	2,258,233				
58	1320		62°56'	-36°	8.0	TH	+6.6	-1.4		31.7		+673	+1135	384,935	2,258,416				
59	1540		62°13'	-36°	9.9	TH	+7.7	-2.2		30.9	TP	+802	+1315	385,064	2,258,596				
59	1540				14.7		+12.5	-2.2			TP								rechecked vertical
	1540		239°47'-180°	-36°	+7.1	-		+7.1	38.0		BS	+857	+1279						
	1540				+14.8	TH	-7.7	+7.1			BS								
60	1320		" "	-36°	7.7	-		-7.7		30.3		-735	-1097	385,186	2,258,778				

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5/10/78		G. Cotcamp		F. Tellez		6834		G.W.C.		3		7			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Charleston		Stallsville 7 1/2		S. Carolina		Dorchester								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									38.0						
61	1100		239° 47'	-36°	7.1	-		-7.1		30.9		-612	-914	385 309	2,258,961
62	880		" "	-36°	6.4	-		-6.4		31.6		-490	-731	385 431	2,259,149
63	660		" "	-36°	5.9	-		-5.9		32.1		-367	-548	385 554	2,259,327
64	440		" "	-36°	5.5	-		-5.5		32.5		-245	-366	385 676	2,259,509
65	220		" "	-36°	5.2	-		-5.2		32.8		-122	-183	385 799	2,259,692
66	0				5.4	-		-5.4		32.6	X	0	0	385 921	2,259,875
67	220				4.7	-									
67	205		55° 45'	-36°	4.7	-		-4.7		33.3		+126	+162	386 047	2,260,037 T-intersect. (south)
67	220		57° 08'	-36°	4.7	-		-4.7		33.3		+131	+177	386 052	2,260,052
68	440		55° 09'	-36°	5.2	-		-5.2		32.8		+274	+345	386 195	2,260,220 trail (northwest)
69	660		56° 47'	-36°	6.0	-		-6.0		32.0	TP	+396	+528	386 317	2,260,403
69	660				9.3	TH	+3.3	-6.0			TP				
	660		242° 52' - 180°	-36°	+4.8	-		+4.8	36.8		BS	+337	+567		
	660				+8.1	TH	-3.3	+4.8			BS				
70	440		242° 17'	-36°	4.3	-		-4.3		32.5		-229	-376	386 425	2,260,594
71	220		240° 22'	-36°	4.5	-		-5.5		31.3		-121	-184	386 533	2,260,786
72	0				5.4	-		-5.4		31.4	X	0	0	386 654	2,260,970
73	220		60° 12'	-36°	5.9	-		-5.9		30.9		+121	+184	386 775	2,261,154
74	440		60° 12'	-36°	6.8	-		-6.8		30.0		+242	+367	386 896	2,261,337
74	630		59° 20'	-36°	7.4	-		-7.4		29.4		+355	+521	387 009	2,261,491 trail (north west)

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GEO-445

Geosource Inc.

DATE 5/10/78	INSTRUMENT MAN G. Cotcamp	ROD MAN F. Telloz	PARTY NUMBER 6834	NOTES CHECKED BY G.W.C.	LINE NO. 3	PAGE 8
AREA Line Charleston	TOPO MAP Staillville 7 1/2	STATE S. Carolina	COUNTY Dorchester	TWP	RANGE	PPM
				PARTY MANAGER L.O. Davis		

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS
												LAT.	DEP.	Y	X			
									36.8									
75	660		60°36'	-36°	7.8	-		-7.8		29.0		+359	+554	387,013	2,261,524			
76	880		" "	-36°	6.3	-		-6.3		30.5		+479	+738	387,133	2,261,708			
77	1100		60°54'	-36°	7.9	90°0'	-1.3	-9.2		27.6	TP	+594	+926	387,248	2,261,896	✓ changed in field		
77	1100				6.0	90°10'	-3.2	-9.2			TP							T.P. opposite station
	224		269°40'-180°	-36°	5.1	89°-	-3.9	+1.2			BS	+35	+221					
	224				9.1	88°-	-7.8	+1.3	28.9		BS							
78	0				5.4	-		-5.4		23.5	TP	0	0	387,283	2,262,117			
79	220		69°30'	-36°	3.0	-		-3.0		25.9		+90	+201	387,373	2,262,318			
IF	410		68°29'	-36°	0.5	-		-0.5		28.4		+174	+371	387,457	2,262,488			Trail (east)
80	440		69°9'	-36°	0.9	-		-0.9		28.0		+181	+401	387,464	2,262,518			
81	660		68°21'	-36°	1.1	-		-1.1		27.8		+282	+597	387,565	2,262,714			
82	880		67°27'	-36°	3.2	TH	+4.4	+1.2			TP	+388	+790	387,671	2,262,907			
82	880				6.5	89°30'	+7.7	+1.2		30.1	TP							
	660		232°35'-180°	-36°	+3.7	-		+3.7	33.9		BS	+433	+498					
	660				+6.0	TH	-3.3	+2.8			BS							✓ rechecked rod reading
83	440		232°38'	-36°	4.5	-		-4.5		29.4		-288	-332	387,816	2,263,073			
84	220		" "	-36°	3.3	-		-3.3		30.6		-144	-166	387,960	2,263,239			
84	188		232°34'	-36°	3.3	-		-3.3		30.6		-123	-142	387,981	2,263,263			Trail (west)
85	0				5.3	-		-5.3		28.6	TP	0	0	388,104	2,263,405			
86	220		58°27'	-36°	6.5	-		-6.5		27.4		+127	+180	388,231	2,263,589			

SURVEY NOTES-HIGH RESOLUTION DATA

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5/10/78		G. Cotcamp		F. Teller		5834		G.W.C.		3		9			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Charleston		Stallsville 7 1/2'		South Carolina		Dorchester								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									33.9						
87	440		57°08'	-36°	6.9	-		-6.9		27.0		+262	+354	388,366	2,263,759
88	660		" "	-36°	7.1	-		-7.1		26.8		+392	+531	388,496	2,263,936
TF	830		56°54'	-36°	4.8	-		-4.8		29.1		+496	+665	388,600	2,264,070
89	880		56°59'	-36°	5.0	-		-5.0		28.9	TP	+525	+706	388,629	2,264,111
89	880				9.4	TH	+4.4	-5.0			TP				
	220		247°34' -180°	-36°	4.7	-		+4.7	33.6		BS	+97	+198		
	220				+5.8	TH	-1.1	+4.7			BS				
90	0				5.4	-		-5.4		28.2	T	0	0	388,726	2,264,309
91	220		86°16'	-36°	2.6	91°	-3.8	-6.4		27.2	TP	+28	+218	388,754	2,264,527
91	220				2.0	91°08'	-4.4	-6.4			TP				
	220		269°58' -180°	-36°	+5.2	-		+5.2	32.4		BS	+14	+220		
	220				+6.3	TH	-1.1	+5.2			BS				
92	0				5.3	-		-5.3		27.1	T	0	0	388,768	2,264,747
93	220		68°03'	-36°	5.2	-		-5.2		27.2	TP	+95	+198	388,963	2,264,945
93	220				6.3	TH	+1.1	-5.2			TP				
	220		258°35' -180°	-36°	+7.0	86°44'	-12.5	-5.5	21.7		BS	+57	+212		
	220				+7.9	86°30'	-13.4	-5.5			BS				
94	0				5.4	-		-5.4		16.5	T	0	0	388,920	2,265,157
95	220		81°11'	-36°	14.0	-		-14.0		7.7	TP	+47	+215	388,967	2,265,322
95	220				12.9	BH	-1.1	-14.0			TP				

Q. 27.9 (388,600)
4-Way Intersect. (R+T)
61-Line #2) Connection
y = -24'
x = +23'

first sta. in Middleton Gardens.

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445-

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5/16/78		G. Cotcamp		F. Tellez		6834		G.W.C.		3		11			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Charles Ton		Ladson 7 1/2'		S. Carolina		Dorchester								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
#										21.0					
	890				+3.8	TH	-4.5	-0.7	20.3		BS				4-Way Intersect @ 21.0
	890				+7.2	89°30'	-7.8	-0.6			BS				(Sta. 140-141)
TP	1320				5.1	TH	+6.6	+1.5		21.8	TP				
TP	1320				6.2	89°40'	+7.7	+1.5			TP				137-ruts (muddy)
	880				+7.2	-		+7.2	29.0		BS				
	880				+2.8	BH	+4.4	+7.2			BS				
TP	660				1.9	90°36'	-6.9	-8.8		20.2	TP				126-127 (turn around)
TP	660				2.2	90°34'	-6.5	-8.7			TP				
	445				+4.2	88°40'	-10.4	+3.8	24.0		BS				121-deep ruts
	445				+13.0	88°30'	-9.1	+3.9			BS				
TP	560 ²⁵				1.0	90°47'	-7.7	-8.7		15.3	TP				
TP	560				0.5	90°50'	-8.1	-8.6			TP				
	205				+3.8	-		+3.8	19.1		BS				118-deep hole
	205				+2.7	BH	+1.0	+3.8			BS				
TP	360				4.8	-		-4.8		14.3	TP				
TP	360				6.6	TH	+1.8	+4.8			TP				
	105				+3.0	86°36'	-6.2	-3.2	11.1		BS				
	105				+3.4	86°24'	-6.6	-3.2			BS				
115	86		247°11'	-36°	5.4	91°	-1.5	-6.9		4.2	TP	399849	2269134		Sta. 115 (in woods
115	86				5.0	91°18'	-2.0	-7.9			TP				on edge of marsh)

Sta. 115
 to
 (Sta. 140-141)
 190-141
 4-way Traverse from
 Loop

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 5/16/78	INSTRUMENT MAN G. Cotcamp	ROD MAN F. Tellez	PARTY NUMBER 6834	NOTES CHECKED BY G.W.C.	LINE NO. 3	PAGE 12
AREA Charleston	TOPO MAP Ladson	STATE S. Carolina	COUNTY Dorchester	TWP	RANGE	PPM
				PARTY MANAGER L.O. Davis		

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH - LAT.	EAST + WEST - DEP.	COORDINATES		REMARKS
														Y	X	
115										4.2				390,849	2,269,134	Sta. 115 - first station on north side of river
	86		247° 11' - 180°	-3.6°	+5.4	91° -	+1.5	+6.9	11.1		BS	+38	+77			
	86				+5.0	91° 18'	+2.0	+7.0			BS					
116	130		50° 15'	-3.6°	6.0	86° -	+9.1	+3.1		14.2	TP	+89	+9.5	390,976	2,269,306	first sta. on road.
116	130				5.5	86° 15'	+8.5	+3.0			TP					
	440		216° 16' - 180°	-3.6°	+6.2	-		+6.2	20.4		BS	+370	+237			
	440				4.0	BH	+2.2	+6.2			BS					
117	220		" "	-3.6°	3.6	91° -	-3.8	-7.4		13.0		-185	-119	391,161	2,269,424	
118	0				5.3	-		-5.3		15.1	X	0	0	391,346	2,269,543	
119	220		28° 27'	-3.6°	6.0	89° 38'	+1.4	-4.6		15.8	TP	+200	+92	391,546	2,269,635	
119	220				6.2	89° 35'	+1.6	-4.6			TP					
	440		214° 40' - 180°	-3.6°	+4.5	90° 30'	+3.8	+8.3	24.1		BS	+377	+227			
	440		" "		+3.2	90° 40'	+5.1	+8.3			BS					
120	220		" "	-3.6°	6.6	-		-6.6		17.5		-188	-113	391,735	2,269,749	
121	0				5.3	-		-5.3		18.8	X	0	0	391,923	2,269,862	
122	220		" "		3.8	-		-3.8		20.3		+190	+111	392,113	2,269,973	
123	440	1	33° 50'	-3.6°	3.5	-		-3.5		20.6	TP	+380	+222	392,303	2,270,084	
123	440				4.5	89° 52'	+1.6	-3.5			TP					
	660		219° 34' - 180°	-3.6°	+7.9	-		+7.9	28.5		BS	+566	+340			
	660		" "		+4.6	BH	+3.3	+7.9			BS					
124	440		" "	-3.6°	3.8	90° 30'	-3.6	-7.6		20.9		377	-226	392,492	2,270,198	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 5/16/78	INSTRUMENT MAN G. Cotcamp	ROD MAN F. Tellez	PARTY NUMBER 6834	NOTES CHECKED BY G.W.C.	LINE NO. 3	PAGE 13
AREA Charleston	TOPO MAP Ladson	STATE S. Carolina	COUNTY Dorchester	TWP	RANGE	PPM
				PARTY MANAGER L.O. Davis		

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									28.5						
125	220		214°34'	-36°	6.8	-		-6.8		21.7		-189	-113	392,680	2,279,311
126	0				5.3	-		-5.3		23.2	X	0	0	392,869	2,279,424
127	220		33°12'	-36°	3.3	-		-3.3		25.2		+191	+109	393,060	2,270,533
128	440		" "	-36°	3.3	-		-3.3		25.2		+383	+217	393,252	2,279,641
129	660		" "	-36°	4.3	-		-4.3		24.2		+574	+326	393,443	2,279,750
130	880		" "	-36°	2.6	BH	4.4	-7.0		21.5		+765	+435	393,634	2,279,859
131	1100		33°12'	-36°	11.1	-		-11.1		17.4	TP	+956	+543	393,825	2,279,967
131	1100				5.6	BH	-5.5	-11.1			TP				
	660		212°45' -180°	-36°	+0.5	-		+0.5	17.9		BS	+576	+321		
	660				+3.8	TH	-3.8	+0.5			BS				
132	440		212°45'	-36°	3.3	-		-3.3		14.6		-384	-214	394,017	2,271,074
133	220		" "	-36°	5.3	-		-5.3		12.6		-192	-107	394,209	2,271,181
134	0				5.3	-		-5.3		12.6		0	0	394,401	2,271,288
135	220		33°19'	-36°	4.3	-		-4.3		13.6		+191	+109	394,592	2,271,397
136	440		" "	-36°	2.9	-		-2.9		15.0		+382	+218	394,783	2,271,506
137	660		" "	-36°	4.5	-		-4.5		13.4		+573	+327	394,974	2,271,615
138	880		" "	-36°	2.5	-		-2.5		15.4		+764	+436	395,165	2,271,724
139	1100		" "	-36°	4.6	TH	+5.5	+0.9		18.8		+955	+545	395,356	2,271,833
140	1320		33°19'	-36°	3.9	TH	+6.6	+2.7		20.6	TP	+1146	+654	395,547	2,271,942
140	1320				5.0	89°20'	+7.7	+2.7			TP				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 5/16/78	INSTRUMENT MAN G. Cotcamp	ROD MAN F. Tellez	PARTY NUMBER 6834	NOTES CHECKED BY C.W.C.	LINE NO. 3	PAGE 14
AREA Charleston	TOPO MAP Ladson 7 1/2'	STATE S. Carolina	COUNTY Dorchester	RANGE	PPM	PARTY MANAGER L.O. Davis

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH - LAT.	EAST + WEST - DEP.	COORDINATES		REMARKS
														Y	X	
140				-3.6°						20.6				395,547	2,271,992	
	220		209°20'-180°	-3.6°	+198	89°-	-3.8	+11.0	31.6		BS	+198	+96			
	220				+129	89°30'	-1.9	+11.0			BS					
140	210		211°39'	-3.6°	10.9	-		-10.9		26.7	TP	-185	-98	395,560	2,271,980	4-Way Intersect. of 21.0
141	0				5.3	-		-5.3		26.3	X	0	0	395,745	2,272,038	
142	220		50°38'	-3.6°	2.3	-		-2.3		29.3		+150	+161	395,895	2,272,199	
143	440		50°38'	-3.6°	5.7	TH	+2.2	-3.5		28.1	TP	+300	+322	396,045	2,272,360	
143	440				5.0	89°48'	+1.5	-3.5			TP					
	220		224°15'-180°	-3.6°	+6.8	89°-	-3.8	+3.0			BS	+167	+143			
144	220				+2.9	-		+2.9	31.0		BS					
144	0				5.3	-		-5.3		25.7	X	0	0	396,212	2,272,503	
145	220		54°11'	-3.6°	6.0	-		-6.0		25.0		+140	+170	396,352	2,272,678	
146	440		54°11'	-3.6°	1.7	-		-1.7		29.8	TP	+279	+340	396,491	2,272,843	
146	440				3.9	TH	+2.2	-1.7			TP					
	104		236°22'-180°	-3.6°	+5.7	-		+5.7	35.0		BS	+63	+83			
	104				+5.2	BT	+0.5	+5.7			BS					
147	120		350°21'	-3.6°	6.8	-		-6.8		28.2		+117	-28	396,671	2,272,898	set up on exterior of sharp curve
148			347°12'		2.0	91°-										
148	²²⁰ 342				8.2	-		-8.2			TP	+328	-96	396,882	2,272,830	
148	342		347°23'	-3.6°	2.3	91°-	-6.0	-8.3		26.7	TP					

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
5/16/78		G. Cotcamp		F. Tellez		6834		G.W.C.		3		15				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
Charleston		Ladson 7 1/2'		S. Carolina		Dorchester								L.O. Davis		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
A8										26.7				396,882	2,272,830	
	220		160°55' +180°	-3.6°	+4.8	-		+4.8	31.5		BS	+203	-85			
	220				+5.9	TH	-1.1	+4.8			BS					
A9	0				5.3	-		-5.3		26.2	T	0	0	397,085	2,272,745	
TP	120		351°15'	-3.6°	6.9	-		-6.9		24.6	TP	+117	-26	397,202	2,272,719	
TP	120				6.3	BH	-0.6	-6.9			TP					
	100		160°50' +180°	-3.6°	+5.6	-		+5.6	30.2		BS	+92	-39			
	100				+5.1	BH	+0.5	+5.6			BS					
150	0				5.0	-		-5.0		25.2	T	0	0	397,294	2,272,680	
TP	160		9°3'	-3.6°	2.5	-		-2.5		27.7	TP	+159	+15	397,453	2,272,695	
TP	160				3.3	TH	+0.8	-2.5			TP					T.P. on outside edge of curve
	64		216°03' -180°	-3.6°	+5.8	-		+5.8	33.5		BS	+54	+34			
	64				+6.1	TH	-0.3	+5.8			BS					
151	0				5.3	-		-5.3		28.2	T	0	0	397,507	2,272,729	
TP	182		25°07'	-3.6°	3.6	-		-3.6		29.9	TP	+169	+67	397,676	2,272,796	
TP	182				4.5	TH	+0.9	-3.6			TP					
	256		189°16' -180°	-3.6°	+1.1	91°	+4.5	+5.6			BS	+255	+25			
	256				+1.5	90°59'	+4.0	+5.5	35.4		BS					
152	220		189°16' -	-3.6°	5.6	-		-5.6		29.8		-219	-22	397,712	2,272,799	
153	0				5.3	-		-5.3		30.1	T	0	0	397,931	2,272,821	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5/16/78		G. Cotcamp		F. Tellez		6834		G.W.C.		3		17			
AREA		TOPO MAP		STATE		COUNTY		RANGE		PPM		PARTY MANAGER			
Charleston		Ladson 7 1/2		S. Carolina		Dorchester						L.O. Davis			
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
160										83.3					
	170		192°-180°	-3.6°	+4.9	-		+4.9	38.7		BS	+168	+25		
	170				+5.8	TH	-0.9	+4.9			BS				
	0				5.3	F		-5.3		32.9	TP	0	0	399,547	2,273,187
	0				5.3	F		-5.3		32.9	TP	0	0	399,547	2,273,187
161	45		305°08'	-3.6°	5.1	-		-5.1		33.1	TP	+24	-39	399,571	2,273,198
161	45				4.8	OH	-0.2	-5.0			TP				
	88		139°33'+180°	-3.6°	+4.6	-		+4.6	37.7		BS	+58	-66		
	88				+4.2	OH	+0.4	+4.6			BS				
	60		199°53'	-3.6°	4.4	-		-4.4		33.3		-50	+33	399,579	2,273,115
	0				5.3	-		-5.3		32.4	TP	0	0	399,629	2,273,082
162	140		352°18'	-3.6°	8.0	-		-8.0		29.7	TP	+137	-27	399,766	2,273,055
162	140				8.7	TH	+0.7	-8.0			TP				
	220		207°44'-180°	-3.6°	+4.5	-		+4.5	34.2		BS	+201	+90.4		+4 correction
	220				+5.6	TH	-1.1	+4.5			BS				
163	0				5.3	-		-5.3		28.9	TP	0	0	399,967	2,273,149
164	210		6°22'	-3.6°	4.0	-		-4.0		30.2	TP	+210	+10.4	409,177	2,273,163
164	210				5.1	TH	+1.1	-4.0			TP				shooting interior of curve
	220		161°29'+180°	-3.6°	+4.6	-		+4.6	34.8		BS	+204	-83.4		
	220				+5.7	TH	-1.1	+4.6			BS				
165	0				5.3	-		-5.3		29.5	TP	0	0	400,381	2,273,084
166	220		341°20'	-3.6°	4.1	-		-4.1		30.7		+204	-83	400,585	2,273,001

399,560 + 2,273,160 (scaled)
set-up on Y-intersect.

Y-intersect.

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
5/16/78		G. Cotcamp		F. Tellez		6834		G.W.C.		3	18			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE	PPM	PARTY MANAGER		
Charleston		Ladson 7 1/2'		S. Carolina		Dorchester						L.D. Davis		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									34.8					
167	440		341°20'	-36°	6.2	-		-6.2		28.6		+407	-167	400,788 2,272,917
168	660		341°20'	-36°	5.9	BH	-3.3	-9.2		25.6		+611	-250	400,992 2,272,834
169	880		341°20'	-36°	7.6	BH	-4.4	-12.0		22.8	TP	+814	-333 ⁺	401,195 2,272,755
169	880				4.8	90°28'	-7.2	-12.0			TP			
	220		193°16'-180°	-36°	+4.1	-		+4.1			BS	+217	+37 +5	
	220				+2.9	BH	+1.1	+4.0	26.8		BS			
	98		196°25'	-36°	4.4	-		-4.4		22.4		-96	-22	401,316 2,272,775 center of powerline
170	0				5.3	-		-5.3		21.5		0	0	401,412 2,272,797
171	220		19°54'	-36°	5.2	-		-5.2		21.6		+211	+62	401,623 2,272,859
172	440		19°59'	-36°	4.1	-		-4.1		22.7	TP	+422	+124.4	401,834 2,272,925
172	440				6.3	TH	+2.2	-4.1			TP			
	220		181°26'-180°	-36°	+9.1	-		+9.1	31.8		BS	+220	-8 +4	
	220				+8.0	BH	+1.1	+9.1			BS			
173	0				5.3	-		-5.3		26.5	TP	0	0	402,054 2,272,921
174	220		4°18'	-36°	3.8	-		-3.8		28.0	TP	+220	+3 +4	402,274 2,272,928
174	220				4.9	TH	+1.1	-3.8			TP			
	220		188°08'-180°	-36°	+5.5	87°	-11.5	-6.0	22.0		BS	+219	+17	
	220				+1.7	88°	-7.7	-6.0			BS			
175	0				5.3	-		-5.3		16.7	TP	0	0	402,493 2,272,945
	75		356°19'	-36°	5.3	-		-3.3		18.7		+218	-28	402,711 2,272,917 culvert

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
5/16/78		G. Cotcamp		F. Tellez		6834		G.W.C.		3		19				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
Charles Ton		Ladson 7 1/2'		S. Carolina		Dorchester								L.O. Davis		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
									22.0							
176	215		346°29'	-36°	8.2	89°	+3.8	-4.4		17.6	TP	+205	-63+5	402,698	2,272,887	Shooting interior of curve
176	215				9.0	88°46'	+4.6	-4.4			TP					
	130		161°36'+180°	-36°	75.9	-	-	+5.9	23.5		BS	+121	-49+5			
	130				5.2	BH	+0.7	+5.9			BS					
X	0				5.2	-	-	-5.2		18.3	X	0	0	402,819	2,272,893	
177	96		24° -	-36°	3.9	-	-	-3.9		19.6	TP	+90	+33+9	402,909	2,272,880	
177	96				4.4	TH	+0.5	-3.9			TP					
	114		203°34'-180°	-36°	+6.7	-	-	+6.9	26.5		BS	+107	+39+4			
	114				6.4	BH	+0.6	+7.0			BS					
X	0				5.3	-	-	-5.3		21.2	X	0	0	403,016	2,272,923	
178	106		358°16'	-36°	3.8	-	-	-3.8		22.7		+106	-10	403,122	2,272,913	
	106				5.0	89°22'	-	-								
179	326		357°59'	-36°	7.0	89°	+5.7	-1.3			TP	+324	-32+4	403,340	2,272,895	
179	326				5.0	89°22'	+3.6	-1.4		25.1	TP					
	220		177°28'+180°	-36°	+5.9	91°	+3.9	+9.7	34.8		BS	+219	-23+5			
	220				5.0	91°19'	+4.7	+9.7			BS					
180	0				5.3	-	-	-5.3		29.5	X	0	0	403,559	2,272,877	
181	220		335°30'	-36°	3.8	-	-	-3.8			TP	+194	-104+4	403,753	2,272,777	
181	220				5.0	TH	+1.1	-3.9		30.9	TP					

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
5/16/78		G. Cottramp		F. Teller		6834		G.W.C.		3		20				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
Charleston		Ladson 7 1/2'		S. Carolina		Dorchester								L.O. Davis		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
181										30.9				403,753	2,272,777	
	90		198°26'+180°	-36°	+6.2	BH	+0.5	+6.7			BS	+74	-52+4			
	90				+6.0	90°21'	+0.6	+6.6	37.5		BS					
	0				5.2	-		-5.2		32.3	TP	0	0	403,827	2,272,729	
182	130		4°13'	-36°	3.8	-		-3.8		33.7		+130	+1	403,957	2,272,730	
183	350		4°13'	-36°	2.0	89°24'	+3.6	+1.6		39.1	TP	+350-2	+4+4	404,175	2,272,737	
183	350				4.4	89°-	+6.1	+1.7			TP					
	220		203°56'-180°	-36°	+6.6	-		+6.6	45.7		BS	+206-2	+76+4			
	220				+7.7	TH	-1.1	+6.6			BS					
184	0				5.3	-		-5.3		40.4	TP	0	0	404,379	2,272,817	
185	220		16°58'	-36°	6.1	-		-6.1		39.6		+214	+51	404,593	2,272,868	
	400		16°58'	-36°	5.8	-		-5.8		39.9	TP	+389-2	+92+5	404,766	2,272,914	E.O.D
	400				7.8	TH	+2.0	-5.8			TP					Y-intersect.
	90		249°49'-180°	-36°	+5.5	-		+5.5	45.4		BS	+36-2	+82+4			
	90				+5.1	BH	+0.5	+5.6			BS					
186	35		266°13'	-36°	5.6	-		-5.6	186 39.8		TP	-14	-32	404,786	2,272,968	404,800+2,273,000(scaled)
	0				5.3	-		-5.3	40.1		TP	0	0	404,800	2,273,000	set up at T-intersect
187	200		338°31'	-36°	8.3	-		-8.3	187 37.1		TP					horizontal tie corrected
187	200				9.3	TH	+1.1	-8.2			TP	+181+2	-85-2	404,983	2,272,913	(Y=+8, X=85)
BS	220		151°30'+180°	-36°	+2.9	-		+2.9	40.0		BS	+186+3	-117-2			
BS	220				+4.0	TH	-1.1	+2.9			BS					
188	0				5.0	-				35.0	TP	0	0	405,172	2,272,794	

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-18-78		F. TELLEZ		G. Cotcamp		6834		G.W.C.		3		22			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Charleston		Ladson 7.5'		S. CAROLINA		Dorchester								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
BS	440		168° 24' +180°		+3.6	—		+3.6	31.7	28.1	BS	+425+2	-115-3		
BS	440				+5.8	TH	-2.2	+3.6			BS				
198	220		163° 44'		3.5	—		-3.5		28.2		-213	+56	407,054	2,271,873
199	0				5.0	—		-5.0		26.7	π	0	0	407,267	2,271,817
200	220		327° 49'		7.4	—		-7.4		24.3	TP	+178+3	-129-2	407,448	2,271,686
200	220				8.5	TH	+1.1	-7.4			TP				
BS	440		186° 19' -180°		+1.6	TH	-2.2	-0.6	23.7		BS	+440+3	+21-3		
BS	440				+3.3	89° 30'	-3.8	-0.5			BS				
201	220		187° 51'		4.3	—		-4.3		19.4		-219	-16	407,672	2,271,688
202	65		184° 25'		5.5	—		-5.5		18.2		-65	-1	407,826	2,271,703
202	0				5.0	—		-5.0		18.7	π	0	0	407,891	2,271,704
203	220		348° 52'		2.3	—		-2.3		21.4		+213	-56	408,104	2,271,698
204	440		351° 52'		1.1	TH	+2.2	+1.1		24.8	TP	+431+2	-89-3	408,324	2,271,612
204	440				6.6	89°	+7.7	+1.1			TP				
BS	440		182° 15' -180°		+14.6	—		+14.6	39.4		BS	+440+3	-10-3		
BS	440				+7.0	91°	+7.7	+14.7			BS				
205	220		178° 54'		10.2	—		-10.2		29.2		-219	+18	408,548	2,271,617
206	0				5.0	—		-5.0		34.4	π	0	0	408,767	2,271,599
207	210		22° 1'		3.6	89°	+3.7	+0.1			TP	+199+3	+66-3	408,969	2,271,662
207	210				5.5	88° 30'	+5.5	+0.0		39.4	TP				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445 208

Geosource Inc.

DATE 5-18-78	INSTRUMENT MAN F. TELLEZ	ROD MAN G. Catcamp	PARTY NUMBER 683A	NOTES CHECKED BY G.W.C.	LINE NO. 3	PAGE 23
AREA CHARLESTON	TOPO MAP LADSON 7.5'	STATE S. CAROLINA	COUNTY Dorchester	TWP CHARLESTON	RANGE	PPM
				PARTY MANAGER L.O. Davis		

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS
												LAT.	DEP.	Y	X			
BS	440		205° 32' - 180°	-3.6°	+13.8	BH	+2.2	+16.0	55.4	39.4	BS	+408+2	+164-3					
BS	440				+8.3	91°	+7.7	+16.0			BS							
Z08	220		201° 27'	-3.6°	10.0	—		-10.0		45.4	TP	-209	-67	409,170	2,271,756			
Z09	0				5.0	—		-5.0		50.4	TP	0	0	409,379	2,271,823			
Z10	220		353° 35'	-3.6°	2.5	—	1	-2.5			TP	+217+3	-38-2	409,599	2,271,783			
Z10	220				3.7	TH	+1.1	-2.6		52.8	TP							
BS	360		138° 39' + 180°	-3.6°	+4.3	—		+4.3	57.1		BS	255+3	-254-3					
BS	360				+6.1	TH	-1.8	+4.3			BS							
Z11	140		138° 39'	-3.6°	9.8	—		-9.8		47.3	TP	-99	+99	409,758	2,271,625			
Z12	108		62° 32'	-3.6°	5.3	—		-5.3		51.8	TP	0	0	409,857	2,271,526			setup on T-intersect.
Z13	335		60° 41'	-3.6°	3.7	—		-3.7		53.4	TP	+182+2	+281+3	409,913	2,271,619			line jogs to north east
Z13	335				2.0	BH	-1.7	-3.7			TP							
C.L.	250				4.4	—		-4.4		52.7								
BS	220		220° 43' - 180°	-3.6°	+5.5	—		+5.5	58.9		BS	+175+2	+133-3					Dorchester/Charleston County line marker
BS	220				+6.6	TH	-1.1	+5.5			BS							
Z14	0				5.0	—					TP							
Z14	50		224° 31'	-3.6°	4.5	—		-4.5		54.4	TP	-38	-33	410,180	2,271,901			410,180 + 2,271,900 (scaled)
Z14	0				5.0	—		-5.0		53.9	TP	0	0	410,218	2,271,934			T-intersect (east) (correction +52-y -59-x)
Z15	220		16° 36'	-3.6°	8.5	—		-8.5		50.4		+214	+49	410,932	2,271,983			
Z15	305		16° 52'	-3.6°	11.2	—		-11.2		47.7		+297	+70	410,515	2,272,004			Trail (west)

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE						
5-18-78		F. TELLEZ		G. COLCAMP		6834		G.W.C.		3		24						
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER				
CHARLESTON		LADSON 7.5'		S. CAROLINA		CHARLESTON								L.O. DAVIS				
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH+ SOUTH -		EAST+ WEST -		COORDINATES		REMARKS
												LAT.	DEP.	Y	X			
									58.9									
216	440		11° 48'	-36°	11.5	BH	-2.2	-13.7		45.2		+428	+100	410,646	2,272,034			
217	660		16° 04'	-36°	4.3	91°	-11.5	-15.8			TP	+644.2	+142.7	410,860	2,272,069			* re-run azimuths from
217	660				6.3	90° 50'	-9.6	-15.9		43.0	TP							217 To 230 6/1/78
BS	220		186° 00' - 180°	-36°	+4.5	-		+4.5	47.5		BS	+220.2	+9.6					
BS	220				+5.6	TH	-1.1	+4.5			BS							
218	0				5.0	-		-5.0		42.5	TP	0	0	411,078	2,272,072			
219	220		21° 4'	-36°	5.0	-		-5.0		42.5		+209	+66	411,287	2,272,138			
220	440		" "	-36°	3.4	-		-3.4		44.1		+419	+132	411,497	2,272,204			
//	520		21° 47'	-36°	4.5	TH	+2.6	-1.9		45.6		+494	+162	411,572	2,272,234			Trail (northwest)
221	655		21° 47'	-36°	2.8	TH	+3.3	+0.5			TP	+622.2	+204.6	411,698	2,272,290			
221	655 s		21° 47'		2.9	89° 42'	+3.5	+0.6		48.1	TP							
BS	440 s		213° 18' - 180°	-36°	+5.2	-		+5.2	53.3		BS	+382.2	+218.6	1				
BS	440		213° 18'		+7.4	TH	-2.2	+5.2			BS							
222	220		212° 50'	-36°	6.0	-		-6.0		47.3		-192.	-107	411,886	2,272,375			
223	0				5.0	-		-5.0		48.3	TP	0	0	412,078	2,272,482			
224	220		30° 30'	-36°	6.0	-		-6.0		47.3		+196	+100	412,274	2,272,582			
//	350		30° 42'	-36°	6.1	-		-6.1		47.2		+312	+159	412,390	2,272,641			Trail (northwest)
225	440		31° 48'	-36°	8.4	TH	+2.2	-6.2		47.1	TP	+388.2	+208.6	412,464	2,272,684			
225	440		31° 48'		4.0	BH	-2.2	-6.1			TP							

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-18-78		F. Tellez		G. Cotchamp		6834		R.S.H.		3		25			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Charleston		LADSON 7.5'		S. CAROLINA		CHARLESTON								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
BS	440		192°36'-180°	-3.6°	+5.3	-		+5.3	52.4	47.1	BS	+434.2	+69.6		
BS	440		192°36'		+3.1	BH	+2.2	+5.3			BS				
226	220		195°10'	-3.6°	5.4	-		-5.4		47.0		-216	-4.4	412,680	2,272,703
227	0				5.0	-		-5.0		47.4	TP	0	0	412,896	2,272,747
228	220		340°03'	-3.6°	4.8	-		-4.8		47.6	TP	+202.2	-89.6	413,096	2,272,652
228	220		340°03'		5.9	TH	+1.1	-4.8			TP				
BS	220.2		177°02'+180°	-3.6°	+4.4	-		+4.4	52.0		BS	+219.2	-25.6		
BS	220		177°02'		+5.5	TH	-1.1	+4.4			BS				
229	0				5.0	-		-5.0		47.0	TP	0	0	413,313	2,272,621
230	217.17		13°18'	-3.6°	6.5	-		-6.5		45.4	TP	+214.2	+37.6	413,525	2,272,652
230	217		13°18'		7.7	TH	+1.1	-6.6			TP				
	660		215°31'-180°	-3.6°	+7.6	TH	-3.3	+4.3	49.8		BS	+560.9	+349.2		
	660				+9.1	89°36'	-4.6	+4.5	+4.4		BS				
231	440		214°31'	-3.6°	4.9	-		-4.9		44.9		-377	-226	413,706	2,272,769
232	220		213°48'	-3.6°	4.8	-		-4.8		45.0		-190	-111	413,893	2,272,884
233	0				5.3	-		-5.3		44.5	TP	0	0	414,083	2,272,995
234	220		26°42'	-3.6°	4.3	-		-4.3		45.5		+202	+86	414,285	2,273,081
235	440		26°42'	-3.6°	5.5	-		-5.5		44.3		+405	+173	414,488	2,273,168
236	660		26°42'	-3.6°	4.1	-		-4.1		45.7	TP	+607.2	+259.7	414,688	2,273,247
236	660				7.4	TH	+3.3	-4.1			TP				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5/19/78		G. Cotcamp		F. Tellez		6839		R. J. H.		3		26			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Charleston		Ladson		S. Carolina		Charleston								L. O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
236										45.7					
	440		207°26' - 180°	-36°	+9.9	89°22'	-4.9	+5.0	50.7		BS	+402	+178		
	440		" "		+11.0	89°11'	-5.9	+5.1			BS				
237	220		" "	-36°	5.0	-		-5.0		45.7		-195	-101	414,893	2,273,318
238	0				5.3	-		-5.5		45.4	X	0	0	415,088	2,273,419
239	220		48°15'	-36°	5.9	-		-5.4		45.3	TP	+157	+155	415,244	2,273,568
239	220				6.5	TH	+1.1	-5.4			TP				
	660		232°01' - 180°	-36°	+4.7	-		+4.7	50.0		BS	+438	+494		
	660		" "		+8.0	TH	-3.3	+4.7			BS				
240	940		" "	-36°	5.3	-		-5.3		44.7		-292	-329	415,388	2,273,727
241	220		" "	-36°	5.3	-		-5.3		44.7		-146	-165	415,534	2,273,891
242	0				5.3	-		-5.3		44.7	X	0	0	415,680	2,274,056
	170		49°21'	-36°	5.1	-		-5.1		44.9	TP	+119	+122	415,797	2,274,172
	170				6.0	TH	+0.9	-5.1			TP				sharp corner apex of curve
	500		145°23' + 180°	-36°	+14.8	89°12'	-7.0	+7.8	52.7		BS	+393	-309		
	500		" "		+14.2	89°16'	-6.4	+7.8			BS				
243	440		" "	-36°	8.0	-		-8.0		44.7		-346	+272	415,842	2,274,128
244	220		" "	-36°	7.0	-		-7.0		45.7		-173	+136	416,015	2,273,992
	170		148°04'	-36°	6.4	-		-6.4		46.3		-138	+99	416,050	2,273,955
245	0				5.3	-		-5.3		47.4	X	0	0	416,188	2,273,856
246	220		347°40'	-36°	5.8	-		-5.9		46.9		+163	-47	416,351	2,273,809

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5/19/78		G. Cotcamp		F. Tellez		6834		R. J. H.		3		27			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Charleston		Ladson		S. Carolina		Charleston								L. O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									52.7						
247	440		347°40'	-3.6°	6.0	-	-6.0		46.7	TP	+423.2	-121.6	416,609	2,273,729	
247	440				8.2	TH	+2.2	-6.0		TP					
	440		154°37'+180°	-3.6°	+5.9	-	+5.9	52.6		BS	+384.3	-213.6			
	440		"		8.1	TH	-2.2	+5.9		BS					
248	220		"	-3.6°	5.6	-	-5.6		47.0		-192	+107	416,799	2,273,617	
249	0				5.3	-	-5.3		47.3	X	0	0	416,991	2,273,510	
250	220		333°49'	-3.6°	6.8	-	-6.8		45.8		+190	-109	417,181	2,273,401	-
251	440		"	-3.6°	12.2	-	-12.2		40.4		+385	-218	417,372	2,273,292	-
252	660		333°49'	-3.6°	5.0	91°	-11.5	-16.5		TP	+573	-328	417,562	2,273,176	
252	660				8.9	90°40'	-7.7	-16.6		TP					
	440		161°44'+180°	-3.6°	+1.8	-	+1.8	37.8		BS	+408	-164.7			
	440		" "		9.0	TH	-2.2	+1.8		BS					
253	220		"	-3.6°	4.3	-	-4.3		33.5		-204	+82	417,765	2,273,087	
254	0				5.3	-	-5.3		32.5	X	0	0	417,969	2,273,005	
255	220		352°41'	-3.6°	5.9	-	-5.9		31.9	TP	+216	-42.4	418,185	2,272,957	
255	220				7.0	TH	+1.1	-5.9		TP					
	880		179°54'+180°	-3.6°	+3.2	91°	+15.4	+18.6		BS	+878	-56.4			
	880				14.1	GH	+4.4	+18.5	50.4	BS					
256	660		" "	-3.6°	6.2	TH	-3.3	-9.5			-659	+43	418,404	2,272,938	
257	440		" "	-3.6°	13.2	TH	-2.2	-15.4			-439	+28	418,624	2,272,923	

