

SURVEY NOTES-HIGH RESOLUTION DATA

Geosource Inc. Client: COCORP

GEO-445
 DATE 5/23/78 INSTRUMENT MAN G. Colecamp ROD MAN E. Tellez PARTY NUMBER 6834 NOTES CHECKED BY R.J.H. LINE NO. 1 PAGE 1 of 20
 AREA CHARLESTON, S. C. TOPO MAP Cottageville 15' 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	
KBM										19.0	R			380,498	2,188,734	R Line #4 coordinates 380,498 + 2,188,734
	81		205°48' - 180°	-2.95°	+3.2	-		+3.2	22.2		BS	+75-2	+30			U.S.G.S 31 REF. el. 1972
	81				+3.6	TH	-0.4	+3.2			BS					1972
I/F	62		248°07'	-2.95°	5.6	-		-5.6		16.6		-26	-56	380,545	2,188,709	T-Intersect.
948	0				5.3	-		-5.3		16.9	T	0	0	380,571	2,188,765	B.O.L.
949	220		61°31'	-2.95°	2.3	-		-2.3		19.9	TP	+115-1	+188+1	380,685	2,188,954	
949	220				3.4	TH	+1.1	-2.3			TP					
BS	660		250°45' - 180°	-2.95°	+5.7	-		+5.7	25.6		BS	+249-2	+611+2			
BS	660				+9.0	TH	-3.3	+5.7			BS					
949	480		251°21'	-2.95°	6.6	-		-6.6		19.0		-177	-446	380,755	2,189,121	Trail (north west)
950	440		250°45'	-2.95°	6.8	-		-6.8		18.8		-166	-407	380,766	2,189,160	
951	220		" "	-2.95°	6.5	-		-6.5		19.1		-83	-204	380,849	2,189,363	
951	160		253°42'	-2.95°	6.2	-		-6.2		19.4		-53	-151	380,879	2,189,416	Trail (south west)
952	0				5.3	-		-5.3		20.3	T	0	0	380,932	2,189,567	
953	220		74°26'	-2.95°	4.9	-		-4.9		20.7		+70	+209	381,002	2,189,776	
953	284		73°27'	-2.95°	5.0	-		-5.0		20.6		+95	+268	381,027	2,189,835	Trail (south east)
954	440		74°26'	-2.95°	5.0	-		-5.0		20.6		+140	+417	381,072	2,189,984	
955	660		73° -	-2.95°	5.3	-		-5.3		20.3	TP	+225-2	+620+2	381,155	2,190,189	
955	660				8.6	TH	+3.3	-5.3			TP					
	660		264°58' - 180°	-2.95°	+1.6	TH	+3.3	+4.9	25.2		BS	+92-1	+654+2			
	660				+2.6	90°12'	+2.3	+4.9			BS					

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE		
5/23/78		G. Cotcamp		F. Tellez		6834		R. J. H.		1		2		
AREA		TOPO MAP		STATE		COUNTY		RANGE		PPM		PARTY MANAGER		
Charleston		Cottageville		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.	
									25.2					
956	440		264°58'	-2.95°	4.8	-		-4.8		20.4		-61	-436	381,185 2,190,409
957	220		" "	-2.95°	4.9	-		-4.9		20.3		-31	-218	381,215 2,190,627
958	0				5.3	-		-5.3		19.9	X	0	0	381,246 2,190,845
959	220		89°29'	-2.95°	4.8	-		-4.8		20.4		+32	+218	381,278 2,191,063
960	440		" "	-2.95°	3.9	-		-3.9		21.3		+65	+435	381,314 2,191,280
961	480		83°42'	-2.95°	3.6	-		-3.6		21.6		+77	+474	381,323 2,191,319 4-Way Intersect.
961	660		89°29'	-2.95°	3.2	-		-3.2		22.0		+97	+653	381,343 2,191,498
962	880		89°29'	-2.95°	1.9	-		-1.9		23.3	TP	+130-1	+870-2	381,375 2,191,717
962	880				6.3	TH	+4.4	-1.9			TP			
	660		266°19'-180°	-2.95°	+3.6	-		+3.6	26.9		BS	+76-2	+656-2	
	660		" "		7.9	TH	-3.3	+3.6			BS			
963	440		" "	-2.95°	4.5	-		-4.5		22.4		-51	-437	381,398 2,191,938
964	220		" "	-2.95°	4.9	-		-4.9		22.0		-25	-219	381,424 2,192,156
965	0				5.2	-		-5.2		21.7	X	0	0	381,449 2,192,375
966	220		89°49'	-2.95°	6.0	-		-6.0		20.9		+31	+218	381,480 2,192,593
967	440		" "	-2.95°	7.0	-		-7.0		19.9		+62	+436	381,511 2,192,811
968	555		83°49'	-2.95°	6.9	-		-6.9		20.0		+88	+548	381,537 2,192,923 4-Way Intersect.
968	660		84°17'	-2.95°	7.3	-		-7.3		19.6	TP	+99-1	+652-2	381,547 2,193,029
968	660				4.1	BH	-3.3	-7.4			TP			

SURVEY NOTES-HIGH RESOLUTION DATA

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
5/23/78		G. Catcamp		F. Tellez		6834		R. J. H.		1		3				
AREA		TOPO MAP		STATE		COUNTY		TWP.		RANGE		PPM		PARTY MANAGER		
Charleston		Cottageville		S. Carolina		Dorchester								L. O. Davis		
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
968										19.6				381,547	2193,029	
	1100		267°35'-180°	-2.95	+5.1	-		+5.1	24.7		BS	+103-1	+1095-2			
	1100		" "		+2.5	90°08'	+2.6	+5.1			BS					
969	880		" "	-2.95	4.8	-		-4.8		19.9		-82	-876	381,567	2,193,250	
970	660		" "	-2.95	4.9	-		-4.9		19.8		-62	-657	381,587	2,193,469	
971	440		" "	-2.95	5.0	-		-5.0		19.7		-41	-438	381,608	2,193,688	
972	220		" "	-2.95	5.2	-		-5.2		19.5		-21	-219	381,628	2,193,907	
973	0		" "		5.2	-		-5.2		19.5	X	0	0	381,649	2,194,126	
974	220		87°38'	-2.95	5.2	-		-5.2		19.5		+20	+219	381,669	2,194,345	
975	440		87°38'	-2.95	4.8	-		-4.8		19.9		+41	+438	381,690	2,194,564	
976	660		87°38'	-2.95	5.0	-		-5.0		19.7	TP	+61-2	+657-2	381,708	2,194,785	
976	660		" "		8.3	TH	+3.3	-5.0			TP					
	215		240°27'-180°	-2.95	+14.0	87°42'	-8.6	+5.4	25.1		BS	+116-1	+181+2			Shooting interior of curve
	215		" "		+13.5	87°50'	-8.1	+5.4			BS					
977	0		" "		5.2	-		-5.2		19.9	X	0	0	381,823	2,194,968	
978	220		49°08'	-2.95	5.3	-		-5.3		19.8		+152	+159	381,975	2,195,127	
979	440		" "	-2.95	5.1	-		-5.1		20.0		+305	+317	382,128	2,195,285	
980	660		" "	-2.95	5.3	-		-5.3		19.8		+457	+476	382,280	2,195,444	
981	880		48°12'	-2.95	5.0	-		-5.0		20.1		+620	+625	382,443	2,195,593	
982	1100		48°15'	-2.95	5.1	-		-5.1		20.0	TP	+774-12	+782-12	382,595	2,195,752	
982	1100		" "		10.6	TH	+5.5	-5.1			TP					

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
5/23/78		G. Coaruf		F. Tellez		6834		R.J.H.		1	4					
AREA		TOPO MAP		STATE		COUNTY		RANGE		PPM		PARTY MANAGER				
Charleston		Cottageville		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 - LAT.	EAST + WEST - DEP.	COORDINATES Y X		REMARKS
982										20.0				382,595	2,195,752	
	1100		229° 21' - 180°	-2.95°	+5.7	-		+5.7	25.7		BS	+759-1	+797+2			
	1100				+11.2	7H	-5.5	+5.7			BS					
983	880		" "	-2.95°	6.2	-		-6.2		19.5		-607	-637	382,746	2,195,914	
984	660		" "	-2.95°	6.3	-		-6.3		19.4		-455	-478	382,898	2,196,073	
985	440		" "	-2.95°	6.1	-		-6.1		19.6		-303	-319	383,050	2,196,232	
986	220		" "	-2.95°	4.3	-		-4.3		21.4		-152	-159	383,201	2,196,392	
987	0				5.2	-		-5.2		20.5	TP	0	0	383,353	2,196,551	
988	220		48° 37'	-2.95°	5.5	-		-5.5		20.2		+154	+157	383,507	2,196,708	
989	440		" "	-2.95°	5.2	-		-5.2		20.5		+307	+315	383,660	2,196,866	
990	660															
990	490		47° 49'	-2.95°	4.9	-		-4.9		20.8		+347	+346	383,700	2,196,897	trail (west)
990	660		" "	-2.95°	6.0	-		-6.0		19.7		+468	+466	383,821	2,197,017	
991	810		48° 02'	-2.95°	6.3	-		-6.3		19.4		+572	+574	383,925	2,197,125	383,925+2,197,125 (scaled) 4-Way Intersect. rd. 21 y=19 h. Correction
991	880		" "	-2.95°	6.3	-		-6.3		19.4						x=-23
992	1100		48° 01'	-2.95°	5.7	-		-5.7		20.0	TP	+777+6	+779	384,136	2,197,330	
992	1100				0.2	BH	-5.5	-5.7			TP					
	880		227° 31' - 180°	-3.25°	+9.4	-		+9.4			BS	+630.6	+614			
	880		" "		+4.9	BH	+4.4	+9.3	29.3		BS					
993	660		" "	-3.25°	8.8	-		-8.8		20.5		-473	-461	384,299	2,197,483	
994	440		" "	-3.25°	8.8	-		-8.8		00.5		-315	-307	384,457	2,197,637	

HIGH RESOLUTION DATA

Geosource Inc.

INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
G. Cotcamp		F. Tellez		6834		R. J. H.		1		5			
TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Cottageville		S. Carolina		Dorchester								L. O. Davis	
E NCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFER- ENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS
											NORTH+ SOUTH - LAT.	EAST+ WEST - DEP.	
								19.3					
220		227° 31'	-3.25°	6.9	-		-6.9		22.4		-158	-154	384,614 2197,790
0				5.3	-		-5.3		24.0	TP	0	0	384,712 2,197,944
220		44° 40'	-3.25°	5.1	-		-5.1		24.2		+165	+146	384,937 2198,090
440		" "	-3.25°	5.0	-		-5.0		24.3		+330	+291	385,102 2198,235
199	660	" "	-3.25°	4.2	-		-4.2		25.1		+495	+437	385,267 2198,381
1	880	" "	-3.25°	4.0	-		-4.0		25.3		+660	+582	385,432 2,198,526
2	1100	" "	-3.25°	3.3	-		-3.3		26.0		+825	+728	385,597 2198,672
3	1320	44° 40'	-3.25°	3.7	-		-3.7		25.6	TP	+990.6	+873	385,768 2,198,817
3	1320			10.3	TH	+6.6	-3.7			TP			
	93	235° 57' - 180°	-3.25°	+4.4	-		+4.4			BS	+56.6	+74	
	93			+4.8	TH	-0.5	+4.3	29.9		BS			
TP	0			5.3	-		-5.3		24.6	TP	0	0	385,830 2,198,891 set up in curve
4	130	88° 19'	-3.25°	6.3	-		-6.3		23.6	TP	+11.6	+130	385,847 2,199,021
4	130			7.0	TH	+0.7	-6.3			TP			
	1320	276° 44' - 180°	-3.25°	+1.6	-		+1.6	25.2		BS	-80.6	+1318	
	1320			+8.2	TH	-6.6	+1.6			BS			
5	1100	276° 44'	-3.25°	3.8	-		-3.8		21.4		+67	-1098	385,840 2,199,241
	1040	276° 38'	-3.25°	4.0	-		-4.0		21.2		+61	-1038	385,834 2,199,361 Y-intersect.
6	880	276° -	-3.25°	5.2	-		-5.2		20.0		+42	-879	385,815 2,199,460
7	660	" "	-3.25°	4.9	-		-4.9		20.3		+32	-659	385,805 2,199,680

1/4" HIGH RESOLUTION DATA

Geosource Inc.

		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
		G. Cotcamp		F. Jellez		6834		R. J. H.		1		6			
		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
		Cottageville		S. Carolina		Dorchester								L. O. Davis	
LINE NO.	ELEVANCE	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
									25.2						
	440		276°-	-3.25°	5.3	-		-5.3		19.9		+21	-439	385,794	2199,900
	220		" "	-3.25°	5.3	-		-5.3		19.9		+11	-220	385,784	2200,119
	0				5.3	-		-5.3		19.9	TP	0	0	385,793	2,200,339
11	220		95°52'	-3.25°	4.0	-		-4.0		21.2		-11	+220	385,762	2200,559
12	440		" "	-3.25°	2.9	-		-2.9		22.3		-20	+440	385,753	2200,779
	530		95°43'	-3.25°	1.9	-		-1.9		23.3		-23	+530	385,750	2200,869
13	660		95°52'	-3.25°	0.8	-		-0.8		24.4		-30	+659	385,743	2200,998
14	880		" "	-3.25°	0.2	-		-0.2		25.0		-40	+879	385,733	2201,218
15	1100		" "	-3.25°	5.1	TH	+5.5	+0.4		25.6		-50	+1099	385,723	2201,438
16	1320		95°52'	-3.25°	6.2	TH	+6.6	+0.4		25.6	TP	-60.6	+1319	385,719	2201,658
16	1320				7.3	89°40'	+7.7	+0.4			TP				
	1540		275°59'-180°	-3.25°	+6.0	TH	-7.7	-1.7	23.9		BS	-73.7	+1538		
	1540				+5.5	89°44'	-7.2	-1.7			BS				
17	1320		275°59'	-3.25°	5.9	TH	+6.6	+0.7		24.6		+63	-1318	385,716	2201,878
18	1100		" "	-3.25°	1.7	-		-1.7		22.2		+52	-1099	385,705	2202,097
19	880		" "	-3.25°	3.8	-		-3.8		20.1		+42	-879	385,695	2202,317
20	660		" "	-3.25°	3.9	-		-3.9		20.0		+31	-659	385,684	2202,536
21	440		" "	-3.25°	4.6	-		-4.6		19.3		+21	-439	385,674	2202,757
22	220		" "	-3.25°	5.4	-		-5.4		18.5		+10	-220	385,663	2202,976
23	0				5.3	-		-5.3		18.4	TP	0	0	385,653	2,203,196

Logging operations north side

HIGH RESOLUTION DATA

Geosource Inc.

INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE						
G. Cotcamp		F. Tellez		6834		R.J.H.				7						
TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER				
Cottageville		S. Carolina		Dorchester								L.O. Davis				
E	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		
								23.9								
	40	95° 45'	-3.25°	4.9	-		-4.9		19.0		-10	+220	385,643	2203,916		
	740	" "	-3.25°	5.1	-		-5.1		18.8		-22	+439	385,631	2203,635		
	660	" "	-3.25°	5.1	-		-5.1		18.8		-29	+659	385,624	2203,855		
	880	" "	-3.25°	5.0	-		-5.0		18.9		-38	+879	385,615	2204,075		
	1040	95° 45'	-3.25°	4.7	-		-4.7		19.2		-45	+1039	385,608	2204,235		
	1100	" "	-3.25°	4.2	-		-4.2		19.7		-48	+1099	385,605	2204,295		
	1320	" "	-3.25°	5.1	-		-5.1		18.8		-58	+1319	385,595	2204,515		
0	1540	96° 09'	-3.25°	4.6	-		-4.6		19.3	TP	-78.7	+1538	385,582	2204,734		
30	1540			12.3	TH	+7.7	-4.6			TP						
	660	276° 04' - 180°	-3.25°	+7.7	-		+7.7	27.0		BS	-32.6	+659				
	660	" "		11.0	TH	-3.3	+7.7			BS						
31	440	" "	-3.25°	6.4	-		-6.4		20.6		+22	-439	385,578	2204,954		
32	220	" "	-3.25°	5.3	-		-5.3		21.7		+11	-220	385,567	2205,173		
33	0			5.3	-		-5.3		21.7	TP	0	0	385,556	2205,393		
34	220	56° 36'	-3.25°	5.3	-		-5.3		21.7		+131	+177	385,687	2205,570		
35	435	52° 35'	-3.25°	5.0	-		-5.0		22.0		+283	+330	385,839	2205,723		
36	655	51° 49'	-3.25°	4.6	-		-4.6		22.4	TP	+433.6	+491	385,995	2205,884	shooting interior	
36	655			7.9	TH	+3.3	-4.6			TP					of curve	
	1980	229° 25' - 180°	-3.25°	+10.8	-		+10.8			BS	+1371.6	+1428				
	1980			1.0	BH	+9.9	+10.9	33.3		BS						

SURVEY NOTES-HIGH RESOLUTION DATA

Geosource Inc.

GEO-445

DATE 5/23/78	INSTRUMENT MAN G. Costamp	ROD MAN F. Teller	PARTY NUMBER 6834	NOTES CHECKED BY R.J.H.	LINE NO. 1	PAGE 8
AREA Charleston	TOPO MAP COTTAGEVILLE	STATE S. CAROLINA	COUNTY Dorchester	RANGE	PPM	PARTY MANAGER L.O. Davis

STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									33.3						
	1770		229°38'	-3.25°	10.0	-		-10.0		23.3		-1221	-1281	386,151 2206,031	Trail (south east)
37	1760		229°25'	-3.25°	10.0	-		-10.0		23.3		-1219	-1270	386,153 2206,042	
38	1540		" "	-3.25°	2.3	BH	-7.7	-10.0		23.3		-1067	-1111	386,305 2206,201	
39	1320		" "	-3.25°	3.8	BH	-6.6	-10.4		22.9		-914	-952	386,458 2206,360	
	1220		229°42'	-3.25°	9.8	-		-9.8		23.5		-841	-884	386,531 2206,428	T-intersect. (northwest)
40	1100		229°25'	-3.25°	9.5	-		-9.5		23.8		+762	-793	386,610 2206,519	
41	880		" "	-3.25°	9.5	-		-9.5		23.8		-609	-635	386,763 2206,677	
42	660		" "	-3.25°	9.3	-		-9.3		24.0		-457	-476	386,915 2206,836	
43	440		" "	-3.25°	8.7	-		-8.7		24.6		-305	-317	387,067 2206,995	
44	220		" "	-3.25°	7.1	-		-7.1		26.2		-152	-159	387,220 2207,153	
45	0				5.3	-		-5.3		28.0	X	0	0	387,372 2207,312	Sta 45 is 16' N.E. of
46	220		47°57'	-3.25°	2.2	-		-2.3		31.0		+156	+155	387,528 2207,467	trail (northwest)
47	440		" "	-3.25°	5.7	-		-5.7		27.6		+313	+309	387,685 2207,621	
48	660		47°57'	-3.25°	9.5	-		-9.5		23.8		+469	+464	387,841 2207,776	
TP	840		47°21'	-3.25°	10.9	-		-10.9		22.4	TP	+603	+585	387,975 2207,877	4-way el. 23.
TP	840				6.7	BH	-4.2	-10.9			TP				

SURVEY NOTES-HIGH RESOLUTION DATA

Geosource Inc.

Client: COCORP

GEO-448

DATE 4/24/78	INSTRUMENT MAN G. Cotcamp	ROD MAN F. Tellez	PARTY NUMBER 6834	NOTES CHECKED BY G.W.C.	LINE NO. 1	PAGE 9
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AREA Charleston	TOPO MAP Cottageville 15'	STATE South Carolina	COUNTY Dorchester	TWP	RANGE	PPM	PARTY MANAGER L. O. Davis
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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				
RK				-3°36'						23.0	R							387,975 2,207,920	Scaled
	1580		228°39'-180°	-3.6°	+2.1	-		+2.1	25.1		BS	+1116	+1118						4-Way Intersect
	1580		" "		+10.0	TH	-7.9	+2.1			BS								el. 23 (clubhouse corners)
49	1540				2.8	-		-2.8		22.3		-1088	-1090	388,003	2,207,928				
50	1320				4.5	-		-4.5		20.6		-733	-734	388,158	2,208,087				
51	1100				5.9	-		-5.9		19.2		-777	-778	388,314	2,208,240				
52	880				6.7	-		-6.7		18.4		-622	-623	388,469	2,208,395				Sta 52 is 40' north of
53	660				6.7	-		-6.7		18.4		-466	-467	388,625	2,208,551				Trail (ESE)
54	440				5.0	-		-5.0		20.1		-311	-311	388,780	2,208,707				
55	220		228°39'-180°		3.7	-		-3.7		21.4		-155	-156	388,936	2,208,862				Sta. 55 is 30' north of
56	0				5.3	-		-5.3		19.8	TP	0	0	389,091	2,209,018				Trail (NNW)
57	220		48°23'	-3.6°	5.2	-		-5.2		19.9		+156	+155	389,247	2,209,173				
58	440		" "		4.9	-		-4.9		20.2		+312	+310	389,403	2,209,328				
59	660				4.5	-		-4.5		20.6		+468	+465	389,559	2,209,483				
60	880				3.6	-		-3.6		21.5		+625	+620	389,716	2,209,638				
61	1100				1.7	-		-1.7		23.4		+781	+775	389,872	2,209,793				Trail to north
62	1320		48°23'		5.6	TH	+6.6	+1.0		26.1	TP	+937	+930	390,028	2,209,948				
62	1320				5.2	89°44'	+6.1	+0.9			TP								
62	1766		228°31'-180°	-3.6°	+7.1	TH	-8.8	-1.7	24.3		BS	+1246	+1243						
62	1760				+5.3	89°46'	-7.2	-1.9			BS								
63	1540				2.8	-		-2.8		21.5		-1091	-1087	390,183	2,210,104				

SURVEY NOTES-HIGH RESOLUTION DATA

Geosource Inc.

GEO-445

DATE	4/24/78	INSTRUMENT MAN	G. Colcamp	ROD MAN	F. Tellez	PARTY NUMBER	6834	NOTES CHECKED BY	G.W.C.	LINE NO.	1	PAGE	10
AREA	Charleston	TOPO MAP	Cottageville 15	STATE		COUNTY	Dorchester	RANGE		PPM		PARTY MANAGER	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.	
				-3.6°					24.3					
64	1320		228°31'		4.1	-		-4.1		20.2		-935	-932	390,339 2,210,259
65	1100		" "		4.2	-		-4.2		20.1		-779	-777	390,495 2,210,414
66	880		" "		4.4	-		-4.4		19.9		-623	-621	390,651 2,210,570
67	660		" "		3.8	-		-3.8		20.5		-467	-466	390,807 2,210,725
68	440		" "		3.8	-		-3.8		20.5		-312	-311	390,962 2,210,880
69	220		" "		4.4	-		-4.4		19.9		-156	-155	391,118 2,211,036
70	0		X		5.2	-		-5.2		19.1	X	0	0	391,274 2,211,191
71	220		49°13'		5.3	-		-5.3		19.0		+154	+157	391,428 2,211,348
72	440		" "		6.0	-		-6.0		18.3		+308	+314	391,582 2,211,505
73	660		" "		6.8	-		-6.8		17.5		+462	+472	391,736 2,211,663
74	690		49°13'		6.8	-		-6.8		17.5		+483	+493	391,757 2,211,684 trail (east)
75	800		49°36'		5.3	-		-5.3		19.0		+556	+575	391,830 2,211,766 bridge el 19 topo.
76	830		49°30'		5.7	-		-5.7		18.6		+578	+596	391,852 2,211,787 trail (east)
77	880		" "		6.5	-		-6.5		17.8		+612	+632	391,886 2,211,823
78	1100		" "		5.3	-		-5.3		19.0		+766	+790	392,040 2,211,981
79	1320		" "		4.9	-		-4.9		19.4		+919	+948	392,193 2,212,139
80	1540		" "		4.0	-		-4.0		20.3		+1072	+1106	392,346 2,212,297
81	1760		" "		3.2	-		-3.2		21.1		+1225	+1264	392,499 2,212,455
82	1840		49°0'		3.1	-		-3.1		21.2		+1292	+1310	392,566 2,212,501 4-way Intersect el. 21 Topo.

SURVEY NOTES-HIGH RESOLUTION DATA

Geosource Inc.

GEO-445

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO		PAGE				
4/24/78		G. Cotcamp		F. Tellez		6834		G.W.C.		1		11				
AREA		TOPO MAP		STATE		COUNTY		RANGE		PPM		PARTY MANAGER				
Charleston		Cottageville 15'		South Carolina		Dorchester						L.O. Davis				
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
									24.3							
79	1980		49°03'	-3.6	2.8	-	-	-2.8		21.5	TP	+7389	+1411	392,663	2,212,602	
79	1980		"	"	9.8	89°48'	+6.9	-2.9			TP					
	1980		229°27' - 180°	"	+3.8	-		+3.8	25.3		BS	+1379	+1421			
	1980		"	"	+9.7	89°30'	-5.8	+3.9			BS					
80	1760		"	"	3.6	-		-3.6		21.7		-1226	-1263	392,816	2,212,760	
81	1540		"	"	4.0	-		-4.0		21.3		-1073	-1105	392,969	2,212,918	
82	1320		"	"	5.2	-		-5.2		20.1		-919	-947	393,122	2,213,076	
83	1100		"	"	6.1	-		-6.1		19.2		-766	-789	393,276	2,213,234	
84	880		"	"	6.3	-		-6.3		19.0		-613	-631	393,429	2,213,392	
85	660		"	"	6.3	-		-6.3		19.0		-460	-474	393,582	2,213,549	
86	440		"	"	5.9	-		-5.9		19.4		-306	-316	393,736	2,213,707	
87	220		"	"	5.3	-		-5.3		20.0		-153	-158	393,889	2,213,865	
88	0		"	"	5.3	-		-5.3		20.0	X	0	0	394,042	2,214,023	
89	220		49°21'	"	5.8	-		-5.8		19.5		+154	+158	394,196	2,214,181	
90	440		"	"	5.7	-		-5.7		19.6		+307	+315	394,349	2,214,338	Sta. 90 is 10' north of
91	660		"	"	6.5	-		-6.5		18.8		+461	+473	394,503	2,214,496	Trail (NW)
92	880		"	"	6.7	-		-6.7		18.6		+614	+630	394,656	2,214,653	
93	1100		"	"	6.3	-		-6.3		19.0		+768	+788	394,810	2,214,811	
94	1320		"	"	6.7	-		-6.7		18.6		+921	+946	394,963	2,214,969	
95	1540		49°21'	"	7.0	-		-7.0		18.3		+1075	+1103	395,117	2,215,126	

SURVEY NOTES-HIGH RESOLUTION DATA

Geosource Inc.

GEO-445

DATE 4/24/78 INSTRUMENT MAN G. Cotcamp ROD MAN F. Tellez PARTY NUMBER 6834 NOTES CHECKED BY G.W.C. LINE NO. 1 PAGE 12

AREA Charleston TOPO MAP Cottageville 15' STATE South Carolina COUNTY Dorchester TWP RANGE PPM PARTY MANAGER L.O. Davis

STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									25.3					
96	1760		" "	-3.2	8.1	-		-8.1		17.2		+1228	+1261	395,270 2,215,284
97	1980		49°21'	-3°6'	7.5	-		-7.5		17.8	TP	+1382	+1418	395,424 2,215,441 E.O.D.
97	1980				14.5	89°48'	+6.9	-7.6			TP			
	2200		229°9'-180°		+5.0	-		+5.0	22.8		BS	+1541	+1570	
	2200		" "		+13.9	89°46'	-9.0	+4.9			BS			
98	1980		" "		5.0	-		-5.0		17.8		-1387	-1413	395,578 2,215,598
99	1760		" "		5.3	-		-5.3		17.5		-1233	-1256	395,732 2,215,755
100	1540		" "		4.2	-		-4.2		18.6		-1078	-1099	395,887 2,215,912
≡	1480		229°19'	°	3.0	-		-3.0		19.8		-1033	-1060	395,932 2,215,951 bridge el. 20 top
≡	1460		" "		4.3	-		-4.3		18.5		-1019	-1045	395,946 2,215,966 Trail (west)
101	1320		" "		5.1	-		-5.1		17.7		-922	-945	396,043 2,216,066
102	1100		" "		5.2	-		-5.2		17.6		-768	-787	396,197 2,216,224
103	880		" "		4.9	-		-4.9		17.9		-614	-630	396,351 2,216,381
104	660		" "		5.1	-		-5.1		17.7		-461	-472	396,504 2,216,539
105	440		" "		5.2	-		-5.2		17.6		-307	-315	396,658 2,216,696
106	220		" "		4.6	-		-4.6		18.2		-154	-157	396,811 2,216,854
107	0				5.3	-		-5.3		17.5	X	0	0	396,965 2,217,011
108	220		48°56'		5.7	-		-5.7		17.1		+155	+156	397,120 2,217,167
109	440		" "		5.8	-		-5.8		17.0		+309	+313	397,274 2,217,324
110	660		" "		5.8	-		-5.8		17.0		+464	+469	397,429 2,217,480

SURVEY NOTES-HIGH RESOLUTION DATA

Geosource Inc.

GEO-445

DATE 4/25/78	INSTRUMENT MAN G. Cotcamp	ROD MAN F. Tellez	PARTY NUMBER 6834	NOTES CHECKED BY G.W.C.	LINE NO. 1	PAGE 13
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			
				-3.6°					22.8									
111	880		48°56'		5.9	-		-5.9		16.9		+619	+626	397,584	2,217,637			
112	1100		"		5.9	-		-5.9		16.9		+773	+782	397,738	2,217,793			
113	1320		"		5.9	-		-5.9		16.9		+928	+939	397,893	2,217,950			
114	1540		"		5.0	-		-5.0		17.8		+1083	+1095	398,048	2,218,106			
115	1760		"		4.3	-		-4.3		18.5		+1237	+1252	398,202	2,218,263			
115	1900		48°44'		3.8	-		-3.8		19.0		+1340	+1347	398,305	2,218,358			Trail (southeast)
116	1980		"		3.0	-		-3.0		19.8		+1397	+1403	398,362	2,218,414			
117	2200		"		2.2	-		-2.2		20.6		+1552	+1559	398,517	2,218,570			
118	2420		48°44'	-3%	4.1	-		-4.1		18.6	TP	+1707	+1715	398,672	2,218,726			
118	2420				7.1	89°56' +2.8		-4.3			TP							
	1100		248°9'-180°	-3%	+3.9	-		+3.9	22.5		BS	+473	+993					
	1100		"		+5.3	89°56' -1.3		+4.0			BS							
119	880		"		4.4	-		-4.4		18.1		-378	-795	398,767	2,218,924			
119	830		248°34'	0°	4.5	-		-4.5		18.0		-351	-752	398,794	2,218,967			Intersect. (northwest)
120	660				4.9	-		-4.9		17.6		-279	-598	398,866	2,219,121			
121	440				5.3	-		-5.3		17.2		-186	-399	398,959	2,219,320			
122	220				5.4	-		-5.4		17.1		-93	-199	399,052	2,219,520			
123	0				5.4	-		-5.4		17.1		0	0	399,145	2,219,719			
124	220		52°24'		4.9	-		-4.9		17.6		+145	+166	399,290	2,219,885			

SURVEY NOTES-HIGH RESOLUTION DATA

Geosource Inc.

GEO-445

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
4/25/78		G. Cotcamp		F. Tellez		6834		G.W.C.		1	14					
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER						
Charleston		Cottageville 15'		South 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.		Y	X
									22.5							
125	436		48°20'	-3.6	5.7	-		-5.7		16.8	TP	+310	+307	399,455	2,220,026	Shooting interior of curve
125	436				7.9	TH	+2.2	-5.7			TP					
	1540		223°09'-180°	-3.6	+10.0	-		+10.0	26.8		BS	+1187	+981			
	1540		" "		+2.3	BH	+7.7	+10.0			BS					
126	1320		" "		10.0	-		-10.0		16.8		-1018	-841	399,624	2,220,166	
127	1100		" "		9.8	-		-9.8		17.0		-848	-700	399,794	2,220,301	
128	880		" "		10.0	-		-10.0		16.8		-679	-560	399,963	2,220,447	
129	660		" "		10.2	-		-10.2		16.6		-509	-420	400,133	2,220,587	
130	440		" "		9.6	-		-9.6		17.2		-339	-280	400,303	2,220,727	
131	220		" "		7.8	-		-7.8		19.0		-170	-140	400,472	2,220,867	
132	0				5.4	-		-5.4		21.4		0	0	400,642	2,221,007	
133	220		43°10' "		7.1	-		-7.1		19.7		+170	+140	400,812	2,221,147	
134	440		" "		8.5	-		-8.5		18.3		+339	+280	400,981	2,221,287	
135	660		" "		10.0	-		-10.0		16.8		+509	+420	401,151	2,221,427	
136	880		" "		10.3	-		-10.3		16.5		+678	+561	401,320	2,221,568	
137	1100		" "		9.3	-		-9.3		17.5		+848	+701	401,490	2,221,708	401,660-2,221,680 (scaled)
//	1250		42°38'		8.7	-		-8.7		18.1		+971	+787	401,613	2,221,794	T-intersect. (west) 118
138	1320		" "		8.8	-		-8.8		18.0		+1025	+831	401,667	2,221,838	
139	1540		" "		8.1	-		-8.1		18.7		+1196	+970	401,838	2,221,977	

SURVEY NOTES-HIGH RESOLUTION DATA

Geosource Inc.

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DATE 4/25/78	INSTRUMENT MAN G. Cotcamp	ROD MAN F. Tellez	PARTY NUMBER 6834	NOTES CHECKED BY G.W.C.	LINE NO. 1	PAGE 15
AREA Charleston	TOPO MAP Cottageville 15'	STATE South 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	
									26.8							
140	1760		42°37'	-3.6	9.7	-		-9.7		17.1	TP	+1367	+1108	402,009	2,222,115	
140	1760		" "		13.9	89°52'	+4.1	-9.8			TP					
	1325		222°07' -180°		+3.2	-		+3.2	20.3		BS	+1037	+825			
	1325				+9.9	TH	-6.6	+3.3			BS					
141	1100				4.3	-		-4.3		16.0		-861	-685	402,185	2,222,255	
142	880				4.8	-		-4.8		15.5		-689	-548	402,357	2,222,392	
143	660				4.7	-		-4.7		15.6		-516	-411	402,530	2,222,529	
144	440				5.0	-		-5.0		15.3		-344	-274	402,702	2,222,666	
145	220				4.5	-		-4.5		15.8		-172	-137	402,874	2,222,803	
146	0				5.4	-		-5.4		14.9	TP	0	0	403,046	2,222,940	Set up opposite station
147	225		66°52'	-3.6	5.4	-		-5.4		14.9	TP	+701	+201	403,147	2,223,141	T.P. on opposite side
147	225				4.3	BT	-1.2	-5.5			TP					shooting thru curve
	880		261°57' -180°	-3.6	+5.2	-		+5.2	20.1		BS	+178	+862			
	880		" "		+9.6	TH	-4.4	+5.2			BS					
148	660		" "		4.6	-		-4.6		15.5		-133	-646	403,192	2,223,357	
149	440		" "		4.5	-		-4.5		15.6		-89	-431	403,236	2,223,522	
150	220		" "		5.0	-		-5.0		15.1		-44	-215	403,281	2,223,788	
150	65		267°21' -		4.9	-		-4.9		15.2		-7	-65	403,318	2,223,938	Trail (north)
151	0				5.4	-		-5.4		14.7		0	0	403,325	2,224,003	
152	220		81°35'		4.7	-		-4.7		15.4		+46	+215	403,371	2,224,218	

SURVEY NOTES-HIGH RESOLUTION DATA

Geosource Inc.

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DATE 4/25/78	INSTRUMENT MAN G. Cotcamp	ROD MAN F. Tellez	PARTY NUMBER 6834	NOTES CHECKED BY G.W.C.	LINE NO. 1	PAGE 16
AREA Charleston	TOPO MAP Cottageville 15'	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
				-3.6°					20.1						
153	440		81°35'		4.3	-		-4.3		15.8		+92	+430	403,417	2,224,433
154	660		"		3.5	-		-3.5		16.6		+137	+646	403,462	2,224,699
	820			-3.6	1.9	-		-1.9		18.2	TP	+185	+799	403,510	2,224,802
	820		80°32'		6.0	TH	+4.1	-1.9			TP				Y-intersect. of 17-topo 403,565 2,224,675
	945		208°51'-180°		+2.7	-		+2.7	20.9		BS	+855	+403		
	945		"		+7.4	TH	-4.7	+2.7			BS				
155	880		"		3.7	-		-3.7		17.2		-796	-375	403,569	2,224,830
156	660		"		4.3	-		-4.3		16.6		-597	-282	403,768	2,224,923
157	440		"		4.9	-		-4.9		16.0		-398	-188	403,967	2,225,017
158	220		"		5.3	-		-5.3		15.6		-199	-94	404,166	2,225,111
159	0				5.3	-		-5.3		15.6	X	0	0	404,365	2,225,205
160	220		29° -		5.8	-		-5.8		15.1		+199	+94	404,567	2,225,299
161	440		"		6.0	-		-6.0		14.9		+397	+189	404,762	2,225,377
162	660		"		6.6	-		-6.6		14.3		+596	+283	404,961	2,225,488
162	705		28°30'		5.6	-		-5.6		15.3		+639	+297	405,007	2,225,502
162	735		28°46'		4.9	-		-4.9		16.0		+665	+313	405,030	2,225,518
163	880		"		6.1	-		-6.1		14.8		+796	+374	405,161	2,225,579
164	1100		"		6.2	-		-6.2		14.7		+996	+468	405,361	2,225,673
165	1320		"		7.1	-		-7.1		13.8	TP	+1194	+562	405,559	2,225,767
165	1320		28°48'		13.7	TH	+6.6	-7.1			TP				rechecked 4/26/

SURVEY NOTES-HIGH RESOLUTION DATA

Geosource Inc.

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DATE 4/25/78	INSTRUMENT MAN G. Catcamp	ROD MAN F. Tellez	PARTY NUMBER 6834	NOTES CHECKED BY G.W.C.	LINE NO. 1	PAGE 17
AREA Charleston	TOPO MAP Cottageville 15'	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 - LAT.	EAST + WEST - DEP.	COORDINATES		REMARKS
														Y	X	
165				-3.6°						13.8						
	1320		208°54'-180°		+8.3	-		+8.3	22.1		BS	+1193	+564			
	1320				+11.4	89°32'	-3.1	+8.3			BS					
166	1100				7.8	-		-7.8		14.3		-994	-470	405,758	2,225,861	
167	880				7.9	-		-7.9		14.2		-796	-376	405,956	2,225,955	
168	660				7.3	-		-7.3		14.8		-597	-282	406,155	2,226,049	
169	440				6.8	-		-6.8		15.3		-398	-188	406,354	2,226,143	
170	220				6.3	-		-6.3		15.8		-199	-94	406,553	2,226,237	
171	0				5.4	-		-5.4		16.7	X	0	0	406,752	2,226,331	
172	220		29°04'		3.5	-		-3.5		18.6		+199	+95	406,951	2,226,426	
173	440		" "		3.1	-		-3.1		19.0		+397	+189	407,149	2,226,520	
174	515		28°23'		2.7	-		-2.7		19.4		+468	+216	407,220	2,226,547	Trail (west)
174	660		" "		2.1	-		-2.1		20.0		+599	+277	407,351	2,226,608	
175	880		" "		2.2	-		-2.2		19.9		+799	+369	407,551	2,226,700	
176	1100		" "		2.6	-		-2.6		19.5		+999	+461	407,751	2,226,792	
176	1300		28°19'		1.1	-		-1.1		21.0		+1181	+544	407,933	2,226,875	RT.#61 (pl. 21 topo)
177	1320		28°08'		1.7	-		-1.7		20.4	TP	+1201	+548	407,953	2,226,879	
177	1320				8.2	TH	+6.6	-1.6			TP					
	1100		196°28'-180°		+9.7	TH	-5.5	-0.8	19.6		BS	+1072	+245			
	1100				+5.1	89°42'	-5.8	-0.7			BS					
178	880				1.9	-		-1.9		17.7		-858	-196	408,167	2,226,928	

SURVEY NOTES-HIGH RESOLUTION DATA

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
4/25/78		G. Cotcamp		F. Tellez		6837		G.W.C.		1	18						
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
Charleston		Cottageville 15'		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		
				-36°					19.6								
179	660				3.8	-		-3.8		15.8		-643	-147	408,382	2,226,977		
180	440				4.5	-		-4.5		15.1		-429	-98	408,526	2,227,026		
181	220				4.7	-		-4.7		14.9		-214	-49	408,811	2,227,075		
182	0				5.4	-		-5.4		14.2		0	0	409,025	2,227,124		
183	220		343°36'		5.1	BT	-1.1	-6.27		13.4	TP	+207	-75	409,232	2,227,049		
183	220				5.0	90°20'	-1.3	-6.3			TP						
	1320		155°02'+180°		+11.6	TH	-6.6	+5.0	18.4		BS	+159	-631				
	1320		" "		+5.1			+5.1			BS						
184	1100		" "		4.6	-		-4.6		13.8		-966	+526	409,425	2,226,944		
185	880		" "		4.3	-		-4.3		14.1		-773	+421	409,618	2,226,839		
186	660		" "		5.0	-		-5.0		13.4		-580	+316	409,811	2,226,734		
187	440		" "		5.1	-		-5.1		13.3		-386	+210	410,005	2,226,628		
188	220		" "		5.6	-		-5.6		12.8		-193	+105	410,145	2,226,523		
189	0				5.4	-		-5.4		13.0	X	0	0	410,391	2,226,418		
X	130		333°53'		3.6	-		-3.6		14.8		+113	-64	410,504	2,226,354	bridge	
190	220				5.5	-		-5.5		12.9		+191	-109	410,582	2,226,309		
191	440				4.9	-		-4.9		13.5		+382	-218	410,773	2,226,200		
192	660				4.3	-		-4.3		14.1		+573	-327	410,964	2,226,091		
193	880				4.5	-		-4.5		13.9		+764	-436	411,155	2,225,982		
194	1100		336°-		4.2	-		-4.2		14.2		+975	-510	411,366	2,225,908		

SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4/25/78		G. Cotcamp		F. Tellez		6834		G.W.C.		1		19			
AREA		TOPO MAP		STATE		COUNTY		RANGE		PPM		PARTY MANAGER			
Charleston		Cottageville 15'		South Carolina		Dorchester						L.D. Davis			
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
				-3.6°					18.4						
195	1320		336° -		4.0	-		-4.0		14.4		+1170	-612	411,561	2,225,806
196	1540		335° 45'		3.1	-		-3.1		15.3	TP	+1362	-719	411,753	2,225,699
196	1540				10.8	TH	+7.7	-3.1			TP				
	440		148° 39' +180°		+5.9	-		+5.9	21.2		BS	+361	-252		
	440				+8.1	TH	-2.2	+5.9			BS				
197	220		146° 28'		5.2	-		-5.2		16.0		-175	+133	411,939	2,225,580
198	0				5.4	-		-5.4		15.8	X	0	0	412,114	2,225,447
199	220		331° 38'		5.0	-		-5.0		16.2		+788	-115	412,302	2,225,332
200	440		337° 36'		3.3	TH	+2.2	-1.1		20.1		+395	-193	412,509	2,225,257
TP	470		337° 21'		1.7	TH	+2.4	+0.7		21.9	TP	+422	-208	412,536	2,225,239
TP	470		"		7.6	89°	+8.2	+0.6			TP				E.O.L. 412,525 - 2,225,100 (scaled) +11 +139
	2650		264° 47' -180°		+6.2	-		+6.2	28.2		BS	+466	+2619		
	2650				+14.1	89° 50'	-7.7	+6.4	26.3		BS			412,942	2,227,858
TP	1120		67° 46'		4.6	-		-4.4		23.6	TP	+488	+1008	413,430	2,228,866
TP	1120				10.2	TH	+5.6	-4.6			TP				Vertical traverse to Y-intersect. easterly.
	985		227° 02' -180°		+9.7	-		+4.9	28.3		BS	+715	+677		
	985				+9.7	TH	+4.9	+4.8			BS			414,145	2,229,543
TP	1360		31° 36'		6.3	88° 30'	+35.6	+29.3		57.6	TP	+7201	+638	415,346	2,230,181
TP	1360				14.1	88° 10'	+43.5	+29.4			TP				

SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

DATE 4/25/78 INSTRUMENT MAN G. Cotcamp ROD MAN F. Jellez PARTY NUMBER 6834 NOTES CHECKED BY G.W.C. LINE NO. 1 PAGE 20 of 20

AREA Charleston, S.C. TOPO MAP Stallsville 1/2' STATE South Carolina COUNTY Berkeley 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			
										57.6								
	1170		212°07'-180°		+10.2	-		+10.2	67.8		BS	+1028	+559					
	1170				+4.3	BH	+3.9	+10.2			BS					416,374	2,230,740	
✓	690		30°23'		2.5	-		-2.5		65.3		+616	+311			416,990	2,231,051	Y-intersect.
✓	690				6.0	TH	+3.5	-2.5										el. 65.-Top.
																		417,050-2,230,880 (scaled)