

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-30-85		B. Cotcamp		K. Greenfield		6834		D.S.		6		1			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASH.ington		Mount Vernon 7 1/2'		WASH.		SKagit								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
K T	-Intersect	Elev.	104.0	9	-533.700	x-1,643.715				104.0	TI			533.700 x 1,643.715 T-Inter. EL. 104.0	
1	3497		159° 33' 21"	+22.0	11.1	88° 44'	-77.3	-66.2	37.7		BS	+3495	+95		
1	3497				+10.8	271° 16'	-77.3	-66.5	36.3		BS				
π	0				5.1	-		-5.1		32.6	π	0	0	537.195 1,643.810	
1	1467		348° 05'	--	12.2	-		-12.2		25.5		+1444	+257	538.639 1,644.067	
2	1632		358° 50'	--	9.7	-		-9.7		28.0		+1525	+580	538.720 1,644.339	
3	1865		6° 20'	--	9.2	-		-9.2		28.5		+1642	+885	538.837 1,644.695	
4	2139		11° 50'	--	8.0	-		-8.0		29.7		+1777	+1191	538.972 1,645.001	
11	2233		17° 35' 57"	--	4.7	✓		-4.7		33.0	TP	+1720	+1223	538.915 1,645.233	
5	2304		18° 55' 54"	--	13.4	89° 48'	+8.0	-5.4		32.4	TP	+1741	+1509	538.936 1,645.319	
5	2304				13.1	270° 12'	+8.0	-5.1			TP				
	1979		249° 24' 00"	+22.0	7.3	-		+7.3			BS	-48	+1978		
	1979				+7.2	270° -		+7.2	39.6		BS				
6	1650		249° 24'	--	5.1	-		-5.1		34.5		+40	-1650	538.928 1,645.647	
7	1320		--	--	9.8	TH	+6.6	-3.2		36.4		+32	-1320	538.920 1,645.977	
8	990		--	--	6.3	-		-6.3		33.3		+24	-990	538.912 1,646.307	
9	660		--	--	7.1	-		-7.1		32.5		+16	-660	538.904 1,646.637	
10	330		--	--	6.7	-		-6.7		32.9		+8	-330	538.896 1,646.967	
11	0				5.1	-		-5.1		34.5	π	0	0	538.888 1,647.297	
12	330		70° 56'	+22.0	5.0	-		-5.0		34.6		-17	+330	538.871 1,647.627	
13	660		--	--	8.1	TH	+3.3	-4.8		34.8		-37	+659	538.854 1,647.956	

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-31-85		B. Stamp		K. Greenfield		6834		D.S.		6		2			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Washington		Mount Vernon-7 1/2		WASH.		SKagit								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
									39.6						
14	990		71° 51'	+22.0	5.2	-		-5.2		34.4		-66	+988	538.822	1,648,285
15	1320		71° 25'	--	5.0	-		-5.0		34.6		-79	+1318	538.809	1,648,615
16	1650		71° 16'	--	5.8	-		-5.8		33.8		-94	+1647	538.794	1,648,944
17	1979		70° 56'	--	6.7	-		-6.7		32.9		-101	+1976	538.787	1,649,273
18	2309		70° 41'	--	6.9	-		-6.9		32.7		-108	+2306	538.780	1,649,603
19	2639		70° 36'	--	6.9	-		-6.9		32.7		-120	+2636	538.768	1,649,933
20	2969		70° 24'	--	6.2	-		-6.2		33.4		-124	+2966	538.764	1,650,263
14	2999		70° 23' 53"	--	6.3	-		-6.3		33.3	TP	-125	+2996	538.763	1,650,293
14	2999				6.2	270-		-6.2			TP				
	1468		301° 08' 58"	+22.0	6.3	-		+6.3			BS	-1175	+880		
	1468				6.2	270-		+6.2	39.5		BS				
21	1202		306° 05'	--	5.3	-		-5.3		34.2		+1026	-635	538.608	1,650,538
22	872		--	--	5.2	-		-5.2		34.3		+740	-461	538.328	1,650,712
23	542		--	--	7.2	TH	+2.7	-4.5		35.0		+460	-287	538.048	1,650,886
24	212		--	--	5.3	-		-5.3		34.2		+180	-112	537.768	1,651,061
1	0				5.1	-		-5.1		34.4	1	0	0	537.588	1,651,173
25	118		111° 10'	+22.0	5.5	-		-5.5		34.0		-81	+86	537.507	1,651,259
26	429		88° 15'	--	6.8	-		-6.8		32.7		-148	+402	537.440	1,651,525

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-31-85		B. Cotcamp		K. Greenfield		6834		D.S.		B.C.		6 3			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASHINGTON		MOUNT VERNON-7E		WASH.		SKagit								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
									39.5						
27	750		86° 25'	+22.0	8.1	-	-8.1		31.4			+161	+732	537,427	1,651,905
28	1076		77° 15'	--	7.1	-	-7.1		32.4			-173	+1062	537,415	1,652,235
29	1404		75° 40'	--	6.7	-	-6.7		32.8			-187	+1391	537,401	1,652,564
30	1733		74° 31' 51"	+22.0	6.7	-	-6.7		32.8		TP	-197	+1722	537,391	1,652,895
30	1733			--	6.6	270-	-6.6				TP				
	1798		246° 04' 50"	--	6.6	-	+6.6				BS	+60	+797		
	1798			--	6.5	270-	+6.5	39.3			BS				
31	1469		245° 10'	+22.0	5.6	-	-5.6		33.7			-73	-1467	537,378	1,653,225
32	1141		243° 40'	--	4.8	-	-4.8		34.5			-86	-1137	537,365	1,653,555
33	814		241° -	--	8.7	TH	+4.1	-4.6	34.7			-99	-808	537,352	1,653,884
34	492		234° 50'	--	5.8	-	-5.8		33.5			-112	-479	537,339	1,654,213
35	182		214° 55'	+22.0	5.3	-	-5.3		34.0			-99	-152	537,352	1,654,540
TP	0			--	5.1	-	-5.1		34.2		TP	0	0	537,451	1,654,692
36	143		10° -	--	6.0	-	-6.0		33.3			+121	+76	537,572	1,654,768
37	473		10° 10'	--	6.4	-	-6.4		32.9			+400	+1252	537,851	1,654,944
38	803		-	+22.0	6.2	-	-6.2		33.1			+680	+426	538,131	1,655,120
39	1133		-	--	5.8	-	-5.8		33.5			+959	+1603	538,410	1,655,295
TP	1424		11° 26' 47"	--	5.4	-	-5.4		33.9		TP	+1184	+785	538,639	1,655,477
TP	1424			--	5.3	270-	-5.3				TP				

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
5-31-85		B. Cotcamp		K. Greenfield		6834		D.S.		6	4			
AREA		TOPO MAP	STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER					
WASHINGTON		Mount Vernon 76'	WASH.	SKAGIT					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.	
										33.9				
	2374		249° 39' 15"	+22.0	1.5	-		+1.5			BS	-69	+2373	
	2374			-	1.4	270		+1.4	35.3		BS			
31	2329		249° 27' 32"	-	12.7	TH	+11.6	-1.1		34.2		+59	-2328	538.629 1,655,222
40	2311		249° 34'	-	13.5	TH	+11.6	-1.9		33.4		+63	-2310	538.633 1,655,540
41	1980		-	+22.0	11.5	TH	+9.9	-1.6		33.7		+54	-1979	538.624 1,655,871
42	1650		-	-	10.1	TH	+8.3	-1.8		33.5		+45	-1649	538.615 1,656,201
43	1320		-	-	9.6	TH	+6.6	-3.0		32.3		+36	-1320	538.606 1,656,530
44	990		249° 34'	-	5.1	-		-5.1		30.2		+27	-990	538.597 1,656,860
45	660		-	-	5.8	-		-5.8		29.5		+18	-660	538.588 1,657,190
46	330		-	+22.0	6.0	-		-6.0		29.3		+9	-330	538.579 1,657,520
47	0		-	-	5.1	-		-5.1		30.2	X	0	0	538.570 1,657,850
48	330		69° 45'	-	5.8	-		-5.8		29.5		-10	+330	538.560 1,658,180
49	660		-	-	5.1	-		-5.1		30.2		-20	+660	538.550 1,658,510
50	990		-	"	7.7	TH	+5.0	-2.7		32.6		-30	+990	538.540 1,658,840
51	1320		69° 45'	"	6.8	TH	+6.6	-0.2		35.1		-40	+1319	538.530 1,659,169
52	1650		-	+22.0	7.3	TH	+8.3	+0.9		36.2		-50	+1649	538.520 1,659,499
53	1980		-	-	6.6	TH	+9.9	+3.3		38.6		-60	+1979	538.510 1,659,829
41	2096		69° 27' 32"	"	5.8	TH	+10.5	+4.7		40.0		-53	+2095	538.517 1,659,945
54	2310		69° 48'	"	4.0	89° 40'	+13.4	+9.4		44.7		-73	+2309	538.497 1,660,159

JLS-538,510 x-1,659,950
TH 4way inter.

Mount Vernon 76'
CLEAR LAKE - 15'

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-31-85		B. Cotcamp		K. Greenfield		6834		D.S. B.C.		6		5			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASHINGTON		CLEAR LAKE-7E		WASH.		SKagit								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
									35.3						
55	2640		69° 37' 51"	+22.0	7.3	89° 40'	+15.4	+8.1			TP	-75	+2639	538.495	1,660,489
55	2640			-	7.4	270° 20'	+15.4	+8.6		43.3	TP				
	2309		249° 58' 51"	-	+4.7	-		+4.7		48.0	BS	-80	+2308		
	2309			-	+4.8	270° -		+4.8			BS		-1		
56	1980		249° 42'	+22.0	5.4	-		-5.4		42.6		+59	-1979	538.474	1,660,817
57	1650		-	-	5.8	-		-5.8		42.2		+49	-1649	538.464	1,661,149
58	1320		-	-	11.0	74	+6.6	-4.4		43.6		+39	-1319	538.454	1,661,477
59	990		-	-	7.1	-		-7.1		40.9		+29	-990	538.444	1,661,806
60	660		-	+22.0	10.0	-		-10.0		38.0		+20	-660	538.435	1,662,136
61	330		-	-	9.1	-		-9.1		38.9		+10	-330	538.425	1,662,466
71	228		251° 17' 56"	-	7.7	-		-7.7		40.3	71	+13	-228	538.428	1,662,568 538.470 x -1,662,490 T-Enter
62	0			-	5.1	-		-5.1		42.9	71	0	0	538.415	1,662,796
63	330		70° 20'	+22.0	5.6	89° -	+5.8	+0.2		48.2		-13	+330	538.402	1,663,126
64	660		-	-	7.4	87° 40'	+26.8	+19.4		67.4		-27	+659	538.388	1,663,455
65	989		70° 10'	-	7.8	86° 20'	+63.2	+55.4		103.4		-37	+988	538.378	1,663,784
66	1319		69° 50'	-	8.9	85° 20'	+107.0	+98.1		146.0		-42	+1318	538.373	1,664,114
TP	1367		69° 02' 51"	+22.0	9.9	85° 20'	+111.2	+101.3		149.3	TP	-25	+1362	538.390	1,664,157
TP	1367			-	9.8	274° 40'	+111.2	+101.4			TP		-1		

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6-1-85		B. Cotcamp		K. Greenfield		6834		D.S.		6		6			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASHINGTON		CLEAR LAKE-7 1/2'		WASH.		SKAGIT								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									149.3						
	1610		272 51 20	+22.0	12.6	95°	+140.3	+152.9	302.2		BS	-674	+1455		
	1610			--	12.7	265°	+140.3	+53.0			BS		-1		
67	1319		272 25	--	8.8	95 20	-122.6	-131.4		170.9		+545	-1201	538,261	1,664,410
68	990		271 50	--	5.1	95 20	-92.0	-97.1		205.1		+400	-906	538,116	1,664,705
69	660		- -	--	11.3	95 20	-61.3	-72.6		229.6		+267	-604	537,983	1,665,007
70	330		- -	+22.0	7.2	95 20	-30.7	-37.9		264.3		+133	-302	537,849	1,665,309
71	0			--	5.1	-		-5.1		297.1	X	0	0	537,716	1,665,611 <small>mag.</small>
17	94		84 36 52	--	6.7	86 20	+6.0	-0.7		301.5		-27	+90	537,689	1,665,701
72	330		91 37	--	12.4	86 20	+21.1	+8.7		310.9		-132	+302	537,584	1,665,913
73	660			+22.0	10.1	86 20	+42.2	+32.1		334.3		-264	+605	537,452	1,666,216
TP	878		89 27 54	--	8.3	86 40	+51.1	+42.8		345.0	TP	-321	+816	537,395	1,666,426
TP	878			--	5.7	86 50	+48.5	+42.8			TP		-1		
	1754		237 32 27	--	12.2	91 06	+33.7	+45.9	446.3		BS	+318	+1725		
	1754			+22.0	12.5	268 54	+33.7	+46.2	391.1		BS		-1		
74	1648		237 10	--	12.2	91 -	-28.8	-41.0		350.1		-310	-1619	537,403	1,666,531
75	1318		237 -	--	8.1	90 50	-19.2	-27.3		363.8		-251	-1294	537,462	1,666,856
#	1057		237 17 26	--	5.9	90 50	-15.4	-21.3		369.8	#	-196	-1038	537,517	1,667,112 <small>537,570 x -1,667,095 pipeline</small>
76	988		236 40	--	7.1	90 50	-14.4	-21.5		369.6		-194	-969	537,519	1,667,181
77	658		236 10	+22.0	10.1	91 10	-13.4	-23.5		367.6		-135	-644	537,578	1,667,506
78	329		238 40		6.3	91 10	-6.7	-13.0		378.1		-81	-319	537,632	1,667,831

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
6-1-85		B. Cotcamp		K. Greenfield		6834		D.S.		6		7				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
WASHINGTON		CLEAR LAKE - 7 1/2'		WASH		SKAGIT								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
									391.1							
71	316		235 23 23	+22.0	5.7	91 10	-6.4	-12.1		379.0	71	-69	-308	537.644	1,667,942	71 5-537.670 7-Inter. 1,667,740
79	0			-	5.1	-		-5.1		386.0	π	0	0	537.713	1,668,150	
80	330		37 05	-	5.3	-		-5.3		385.8		+170	+283	537.883	1,668,433	
81	658		33 45	-	8.7	-		-8.7		382.4		+370	+544	537.083	1,668,694	
82	988		33 20	-	7.8	BH	-4.9	-12.7		378.4		+562	+813	538.275	1,668,963	
TP	1066		33 16 04	+22.0	5.8	BH	-5.3	-11.1		380.0	TP	+607	+876	538.320	1,669,025	
TP	1066			-	5.9	BH 270	-5.3	-11.2			TP		-1			
	519		256 54 20	- +	2.6	TH	-2.6	+0.0	380.0		BS	-80	+513			
	519			- +	2.7	TH 270	-2.6	+0.1			BS		-1			
83	252		259 40	-	6.8	89 50	+0.7	-6.1		373.9		+51	-247	538.291	1,669,290	
π	0			+22.0	5.1	-		-5.1		374.9	π	0	0	538.240	1,669,537	
84	78		80 30	-	5.5	89 50	+0.2	-5.3		374.7		-17	+76	538.223	1,669,613	
85	407		74 30	-	3.3	89 50	+1.2	-2.1		377.9		-46	+404	538.194	1,669,941	
TP	536		72 30 03	-	4.4	89 30	+4.7	+0.3		380.3	TP	-42	+534	538.198	1,670,070	
TP	536			+22.0	5.8	89 20	+6.2	+0.4			TP		-1			
	693		203 34 58	- +	10.0	-		+10.0	390.3		BS	+485	+495			
	693			- +	10.1	270		+10.1			BS		-1			
86	502		197 20	-	11.7	-		-11.7		376.6		-388	-318	538.295	1,670,246	
87	174		194 20	+22.0	9.1	-		-9.1		381.2		-140	-103	538.543	1,670,461	
π	0			-	5.1	-		-5.1		385.2		0	0	538.683	1,670,564	

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
6-1-85		B. Cotcamp		K. Greenfield		6834		D.S. B.C.		6	8				
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
WASH.		CLEAR LAKE-7 1/2		WASH.		SKAGIT					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
									390.3						
88	156		16 -	+22.0	5.8	88 -	+5.4	-0.4		389.9		+123	+96	538,806	1,670,660
-H	273		15° 09' 05"	-	3.0	88 -	+9.5	+6.5		396.8		+217	+165	538,900	1,670,729
TP	465		20° 31' 54"	-	2.0	86 40	+27.0	+25.0		415.3	TP	+342	+314	539,024	1,670,877
TP	465			-	4.7	86 20	+29.7	+25.0			TP	-	-		
	773		237° 46' 42"	+22.0	11.7	94 -	+53.9	+65.6	480.9		BS	+137	+759		
	773			-	11.7	266 -	+53.9	+65.6			BS	-	-		
89	740		236° 20'	-	11.4	94 -	-51.6	-63.0		417.9		-150	-725	539,010	1,670,910
90	410		235° 25'	-	9.6	93 -	-21.5	-31.1		449.8		-89	-400	539,071	1,671,235
91	87		217 -	+22.0	5.5	92 -	-3.0	-8.5		472.4		-45	-75	539,115	1,671,560
π	0			-	5.1	-	-	-5.1		475.8	π	0	0	539,160	1,671,635
92	247		58° 05'	-	5.0	88 30	+6.5	+1.5		482.4		+43	+243	539,203	1,671,878
93	576		54° 30'	-	9.7	88 30	+15.1	+5.4		486.3		+134	+560	539,244	1,672,195
94	906		54° 05'	-	8.2	89 -	+15.8	+7.6		488.5		+218	+879	539,378	1,672,514
TP	998		54° 37' 14"	+22.0	6.2	89 -	+17.4	+11.2		492.1	TP	+231	+971	539,390	1,672,605
TP	998			-	3.3	89 10	+14.5	+11.2			TP	-	-		
	392		240° 19' 58"	-	6.1	92 -	+13.7	+19.8			BS	+52	+388		
	392			-	12.9	91 -	+6.8	+19.7	511.8		BS	-	-		
95	157		232 -	+22.0	8.2	-	-	-8.2			503.6		-43	-151	539,398
π	0			-	5.1	-	-	-5.1		506.7	π	0	0	539,441	1,672,992
96	171		58° 20'	-	6.2	87 -	+8.9	+2.7		514.5		+29	+169	539,470	1,673,161

Geosource Inc.

DATE 6-1-85 INSTRUMENT MAN B. Cotcamp ROD MAN K. Greenfield PARTY NUMBER 6834 NOTES CHECKED BY D.S. B.C. LINE NO. 6 PAGE 9

AREA WASHINGTON TOPO MAP CLEAR LAKE - 15' STATE WA. COUNTY Skagit TWP RANGE PPM PARTY MANAGER W. Cassidy

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									511.8						
#	77		61° 51' 30"	+22.0	6.2	86° -	+5.4	-0.8		511.0	#	+8	+76	539,449	1673,068 # 1/4 - 539,400 x - 1,673,040 section line
97	500		53° 50'	-	10.8	87° 30'	+26.1	+15.3		527.1		+122	+485	539,563	1673477
TP	662		54° 05' 24"	-	7.4	87° 30'	+28.9	+21.5		533.3	TP	+159	+642	539,599	1673633
TP	662			+22.0	9.3	87° 20'	+30.8	+21.5			TP	-1	-1		
	406		266° 00' 05"	-	7.4	92° -	+14.2	+21.6			BS	-125	+386		
	406			-	6.2	92° 10'	+15.3	+21.5	554.8		BS	-1	-1		
98	231		268° -	-	6.2	92° 16'	-9.7	-14.9		539.9		+79	-217	539,552	1673801
X	0			+22.0	5.1	-	-	-5.1		549.7	X	0	0	539,473	1674018
99	108		125° 30'	-	5.4	87° 30'	+4.7	-0.7		554.1		-91	+58	539,382	1674026
TP	291		126° 16' 28"	-	5.4	87° 30'	+12.7	+7.3		562.1	TP	-247	+153	539,225	1674170
TP	291			-	6.2	87° 20'	+13.5	+7.3			TP	-1	-1		
	820		314° 33' 16"	+22.0	9.9	91° -	+14.3	+24.2	586.3		BS	-752	+326		
	820			-	10.0	269° -	+14.3	+24.3			BS	-1	-1		
100	673		314° 20'	-	9.3	90° 40'	-7.8	-17.1		569.2		+616	-270	539,088	1674225
#	449		313° 15' 21"	-	10.8	-	-	-10.8		575.5	#	+408	-188	538,880	1674307 1/4 - Inter.
101	346		310° 10'	-	6.2	91° -	-6.0	-12.2		574.1		+306	-162	538,778	1674333
102	34		4° 20'	+22.0	4.9	87° 30'	+1.5	-3.4		582.9		+30	+15	538,502	1674510
X	0			-	5.1	-	-	-5.1		581.2	X	0	0	538,472	1674495
103	328		85° 30'	-	6.3	85° 40'	+24.8	+18.5		604.8		-99	+313	538,373	1674806

Geosource Inc.

DATE 6-1-85	INSTRUMENT MAN B. Cotcamp	ROD MAN K. Greenfield	PARTY NUMBER 6834	NOTES CHECKED BY D.S.	LINE NO. 6	PAGE 10
AREA WASH.	TOPO MAP CLEAR LAKE-15'	STATE W.A.	COUNTY SKAGIT	TWP	RANGE	PPM
				PARTY MANAGER W. Cassidy		

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									586.3						
TP	570		80° 36' 06"	+22.0	6.8	86°	+39.8	+33.0	}		TP	-124	+555	538,347	1,675,049
TP	570			-	6.9	274°	+39.8	+32.9			619.2	TP	-1	-1	
	410		217° 14' 34"	- +12.4	-			+12.4	}	631.6	BS	+210	+352		
	410			- +10.4	84		+2.1	+12.5				BS	-1	-1	
104	324		214° 35'	+22.0	7.3	91°	-5.7	-13.0		618.6		-179	-270	538,377	1,675,130
105	0			-	5.1	-		-5.1		626.5	X	0	0	538,556	1,675,400
106	330		27° 05'	-	5.7	-		-5.7		625.9		+216	+249	538,772	1,675,649
107	660		28° 25'	-	7.5	-		-7.5		624.1		+421	+509	538,977	1,675,909
108	989			-	6.8	-		-6.8		624.8		+630	+762	539,186	1,676,162
109	1317		27° 03' 28"	+22.0	6.4	-		-6.4	}		TP	+863	+995	539,418	1,676,394
109	1317			-	6.5	270°		-6.5			625.1	TP	-1	-1	
	1111		192° 38' 05"	- +9.0	89° 30'		-9.7	-0.7	}		BS	+914	+631		
	1111			- +9.1	270° 30'		-9.7	-0.6			624.5	BS	-1	-1	
110	783		190° 45'	+22.0	5.9	89° 30'	+6.8	+0.9		625.4		-659	-424	539,672	1,676,600
111	453		190° 25'	-	5.3	89° 30'	+4.0	-1.3		623.2		-382	-243	539,949	1,676,781
112	124		185° 10'	-	6.1	87° 30'	+5.4	-0.7		623.8		-110	-57	540,221	1,676,967
X	0			-	5.1	-		-5.1		619.4	X	0	0	540,331	1,677,024
113	203		344° 35'	-	4.5	94° 30'	-15.9	-20.4		604.1		+202	+23	540,533	1,677,047
114	531		337° 55'	+22.0	6.4	93° 30'	-32.4	-38.8		585.7		+531	-1	540,862	1,677,023

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6-1-85		B. Cotcamp		K. Greenfield		6834		D.S. B.C.		6		11			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASHINGTON		CLEAR LAKE-15'		WASH.		SKAGIT								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
									624.5						
TP	819		338° 01' 34"	+22.0	8.9	93° 30'	-49.9	-58.8		565.7	TP	+817	+00'	541,147	1677023
TP	819			-	9.0	266° 30'	-49.9	-58.9			TP	-1	-1		
	435		185° 37' 46"	-	+6.3	87°	-22.7	-16.4	549.3		BS	+385	+201		
	435			-	+3.8	87° 20'	-20.2	-16.4			BS	-1	-1		
115	389		184° 05'	+22.0	6.0	87° 10'	+19.2	+13.2		562.5		-349	-171	541,212	1,677052
116	60		180°	-	7.9	87° 10'	+3.0	-4.9		544.4		-56	-22	541,475	1,677201
π	0			-	5.1	-	-	-5.1		544.2	π	0	0	541,531	1,677223
117	284		56° 30'	-	5.0	91°	-5.0	-10.0		539.3		+57	+278	541,588	1,677501
118	614		56° 20'	-	9.9	91°	-10.7	-20.6		528.7		+124	+601	541,655	1,677824
TP	675		56° 32' 23"	+22.0	8.6	91°	-11.8	-20.4		528.9	TP	+134	+661	541,664	1,677883
TP	675			-	6.7	91° 10'	-13.7	-20.4			TP	-1	-1		
	781		274° 38' 51"	-	+10.1	-	-	+10.1	539.0		BS	-350	+698		
	781			-	+6.2	BM	+3.9	+10.1			BS	-1	-1		
119	509		273° 55'	+22.0	9.2	-	-	-9.2		529.8		+222	-458	541,535	1,678122
120	184		264° 35'	-	5.6	-	-	-5.6		533.4		+53	-176	541,366	1,678404
π	0			-	5.1	-	-	-5.1		533.9	π	0	0	541,313	1,678580
121	145		68° 30'	-	5.4	-	-	-5.4		533.6		-1	+145	541,312	1,678725
TP	361		55° 45' 36"	-	9.2	-	-	-9.2		529.8	TP	+77	+353	541,389	1,678932
TP	361			+22.0	9.3	20°	-	-9.3			TP	-1	-1		

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO		PAGE			
6-1-85		B. Cotcamp		K. Greenfield		6834		D.S.		6		12			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASHINGTON		CLEAR LAKE-7 1/2		WASH.		SKagit								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
			0 1							529.8					
	399		221 24	+22.0	13.4	86°	-27.8	-14.4	515.4		BS	+178	+356		
	399			-	12.2	86° 10'	-26.7	-14.5			BS	-	-		
122	297		221 10	-	9.0	86° 10'	+19.9	+10.9		526.3		-134	+265	541,432	1,679,022
X	0			-	5.1	-	-	-5.1		510.3	X	0	0	541,526	1,679,287
123	54		108 25	-	6.4	92° 10'	-2.0	-8.4		507.0		-35	+41	541,531	1,679,328
124	374		76 20	+22.0	6.4	94° 10'	-27.2	-33.6		481.8		-54	+370	541,512	1,679,657
125	703		78 35	-	6.6	94° 10'	-51.1	-57.7		457.7		-129	+691	541,437	1,679,978
TP	855		77 12 48	-	3.9	94° 10'	-62.1	-66.0	449.4		TP	-137	+842	541,428	1,680,128
TP	855			-	6.4	94°	-59.6	-66.0			TP	-	-		
	1018		242 33 24	+22.0	1.5	89°	-17.8	-16.3	433.1		BS	+97	+1013		
	1018		2	-	1.5	271°	-17.8	-16.3			BS	-	-		
126	847		241 20	-	4.5	89°	+14.8	+10.3		443.4		-97	-841	541,427	1,680,299
127	517		-	-	10.3	89°	+9.0	-1.3		431.8		-59	-514	541,465	1,680,626
128	187		-	+22.0	7.0	-	-	-7.0		426.1		-21	-186	541,503	1,680,954
IF	94		251 07 35	-	5.9	-	-	-5.9		427.2		+5	-94	541,529	1,681,046
X	0			-	5.1	-	-	-5.1		428.0	X	0	0	541,524	1,681,140
129	144		80 40	-	4.2	-	-	-4.2		428.9		-32	+140	541,492	1,681,280
130	473		83 15	+22.0	6.2	89° 20'	+5.5	-0.7		432.4		-125	+456	541,399	1,68,596
TP	710		79° 47 55	-	10.2	89° 20'	+8.3	-1.9	431.2		TP	-145	+695	541,378	1,681,834
TP	710			-	8.2	89° 30'	+6.2	-2.0			TP	-	-		

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6-1-85		B. Cotcamp		K. Greenfield		6834		D.S.		6		13			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASHINGTON		CLEAR LAKE-15		WASH.		SKagit								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
									431.2						
	805		241° 11' 33"	+22.0	7.9	88° 20'	-23.4	-15.5	415.7		BS	+95	+799		
	805			-	10.3	88° 10'	-25.7	-15.4		BS	-1	-1			
131	716		241° 05'	-	7.7	88° 10'	+22.9	+15.2		430.9		-85	-711	541,387 1,681,921	
132	387		238° 10'	-	7.6	87° 30'	+16.9	+9.3		425.0		-65	-381	541,407 1,682,251	
133	63		217° -	-	5.9	87° 30'	+2.7	-3.2		412.5		-32	-54	541,440 1,682,578	
π	0			-	5.1	-		-5.1		410.6	π	0	0	541,472 1,682,632	
134	265		48° 05'	+22.0	5.7	93° 10'	-14.6	-20.3		395.4		+90	+249	541,562 1,682,881	
135	594		44° 25'	-	6.5	94° -	-41.4	-47.9		367.8		+237	+545	541,709 1,683,177	
136	924		44° 05'	-	9.8	94° -	-64.5	-74.3		341.4		+373	+845	541,845 1,683,477	
TP	1144		44° 20' -	-	8.8	94° -	-79.8	-88.6		327.1	TP	+458	+1045	541,929 1,683,676	
TP	1144			+22.0	8.9	266° -	-79.8	-88.7			TP	-1	-1		
	350		224° 23' 42"	-	8.6	85° -	-30.5	-21.9	305.2		BS	+140	+319		
	350			-	7.6	85° 10'	-29.5	-21.9		BS	-1	-1			
137	244		217° 20'	-	5.1	85° 20'	+19.9	+14.8		320.0		-124	-210	541,944 1,683,784	
π	0			+22.0	5.1	-		-5.1		300.1	π	0	0	542,068 1,683,994	
138	77		3° 30'	-	6.3	94° 20'	-5.8	-12.1		293.1		+69	+33	542,137 1,684,027	
139	399		346° 10'	-	8.6	94° 20'	-30.1	-38.7		266.5		+395	+57	542,463 1,684,051	
TP	419		343° 16' 27"	-	8.7	94° 20'	-31.7	-40.4		264.8	TP	+416	+38	542,483 1,684,031	
TP	419			+22.0	7.5	94° 30'	-32.9	-40.4			TP	-1	-1		

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
6-1-85		B. Cotcamp		K. Greenfield		6834		D.S. B.C.			14				
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
WASHINGTON		CLEAR LAKE 75'		WASH.		SKAGIT					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
									264.8						
	569		147° 28' 08"	+22.0	8.1	85°	-49.6	-41.5	223.4		BS	+557	-104		
	569			--	8.2	275°	-49.6	-41.4		BS	-1	-1			
140	265		148° 15'	--	5.0	85° 10'	+22.3	+17.3		240.7		-261	+44	542,778	1,683,970
X	0			--	5.1	—		-5.1		218.3	X	0	0	543,039	1,683,926
141	76		7° 50'	+22.0	6.0	97°	-9.3	-15.3		208.1		+66	+38	543,105	1,683,964
142	404		355° 50'	--	5.2	96°	-42.2	-47.4		176.0		+384	+124	543,423	1,684,050
143	736		356° 37' 28"	--	5.0	95° 30'	-70.5	-75.5	115.1	147.9	TP	+694	+234	543,732	1,684,159
143	736			+22.0	5.1	264° 30'	-70.5	-75.6		TP	-1	-1			
	587		195° 12' 10"	--	3.0	86° 30'	-35.8	-32.8			BS	+467	+354		
	587			--	1.3	86° 40'	-34.1	-32.8			BS	-1	-1		
144	258		193° 50'	--	4.8	87° 20'	+12.0	+7.2		122.3		-209	-151	543,989	1,684,361
X	0			+22.0	5.1	—		-5.1		110.0	X	0	0	544,198	1,684,512
145	59		341° 10'	--	5.4	93° 20'	-3.4	-8.8		106.3		+59	+3	544,257	1,684,515
*	337		309° 25' 44"	--	2.8	93° 20'	-19.6	-22.4		92.7		+295	-161	544,493	1,684,351
TP	345		326° 06' 51"	--	3.6	93° 20'	-20.1	-23.7	115.1	91.4	TP	+337	-71	544,534	1,684,440
TP	345			+22.0	4.6	93° 10'	-19.1	-23.7		TP	-1	-1			
	874		243° 05' 31"	--	8.4	91°	+15.3	+23.7			BS	+75	+871		
	874			--	8.5	269°	+15.3	+23.4			BS	-1	-1		
146	778		242° 05'	--	5.8	91° 14'	-16.7	-22.5		92.6		-79	-774	544,529	1,684,536
147	448		243° 40'	+22.0	7.4	91°	-7.8	-15.2		99.9		-33	-447	544,575	1,684,863

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6-1-85		B. Cotcamp		K. Greenfield		6834		D.S.		6		15			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASHINGTON		CLEAR LAKE-15'		WASH.		SKAGIT								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
									115.1						
#	310		248° 17' 22"	+22.0	4.3	91°	-5.4	-9.7		105.4		+2	-310	544,610	1,685,000
148	120		247° 35'	-	6.1	—		-6.1		109.0		-1	-120	544,607	1,685,190
X	0			-	5.1	—		-5.1		110.0	X	0	0	544,608	1,685,310
149	210		72° 15'	-	5.0	7H	+1.1	-3.9		111.2		-16	+209	544,592	1,685,519
150	540		74° 15'	+22.0	6.2	—		-6.2		109.9		-60	+537	544,548	1,685,847
151	869		74° 40'	-	11.3	—		-11.3		103.8		-102	+863	544,506	1,686,173
152	1197		72° 50' 41"	-	13.2	BH	-6.0	-19.2		95.9	TP	-101	+1193	544,506	1,686,502
152	1197			-	13.3	BH 270	-6.0	-19.3			TP	-	-		
	658		242° 57' 22"	+22.0	4.8	88°	-23.0	-18.2	77.7		BS	+58	+655		
	658			-	4.7	272	-23.0	-18.3			BS	-	-		
#	442		243° 45' 88"	-	3.8	88°	+15.4	+11.6		89.3	#	-33	-441	544,530	1,686,715
153	329		241° 20'	-	5.0	88°	+11.5	+6.5		84.2		-38	-327	544,525	1,686,829
154	0			-	5.1	—		-5.1		72.6	X	0	0	544,563	1,687,156
155	330		52° 30'	+22.0	10.6	89° 20'	+3.8	-6.8		70.9		+88	+318	544,651	1,687,474
156	660		—	-	4.0	89° 20'	+7.7	+3.7		81.4		+175	+636	544,738	1,687,792
157	990		—	-	4.6	89° 10'	+14.4	+9.8		87.5		+263	+954	544,826	1,688,110
# TP	1112		53° 13' 41"	-	3.0	89° 10'	+16.2	+13.2		90.9	TP	+284	+1075	544,847	1,688,231
TP	1112			+22.0	2.9	270 50	+16.2	+13.3			TP				
	1528		250° 54' 03"	-	7.1	91°	+26.7	+33.8			BS	-77	+1526		
	1528			-	7.0	269'	+26.7	+33.7	124.6		BS				

JL 9-544,530 x 1,686,715
 TP 4 way Inter. EL. 88.0
 Horiz. 3- -32'
 Cor. x -41'

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6-10-85		B. Cotcamp		K. Greenfield		6834		D.S.		KWA		6 16			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASH. ngton		CLEAR LAKE-15'		WASH.		SKagit								W. ASS. 27	
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
									124.6						
158	1318		250° 30'	+22.0	7.1	91° -	-23.0	-30.1		94.5		+60	-1317	544,830	1,688,440
159	988		250° 10'	- -	6.5	91° -	-17.2	-23.7		100.9		+39	-987	544,809	1,688,770
160	659		249° 35'	- -	5.6	91° -	-11.5	-17.1		107.5		+19	-659	544,789	1,689,098
161	329		248° -	- -	6.3	91° -	-5.7	-12.0		112.6		+1	-329	544,771	1,689,428
162	0		° ,	+22.0	5.1	-		-5.1		119.5	TP	0	0	544,770	1,689,757
163	330		57° 40'	- -	5.3	89° 30'	+2.9	-2.4		122.2		+59	+325	544,829	1,690,082
164	660		56° 40'	- -	4.0	89° 30'	+5.8	+1.8		126.4		+129	+647	544,899	1,690,404
TP	883		54° 00' 57"	- -	7.2	89° 10'	+12.8	+5.6		130.2	TP	+213	+857	544,983	1,690,614
TP	883		° ,	+22.0	4.6	89° 20'	+10.3	+5.7			TP				
	1230		221° 10' 42"	- - +	12.3	-		+12.3	142.5		BS	+555	+1098		
	1230		°	- - +	12.2	270° -		+12.2			BS				
165	1126		221° -	- -	11.1	-		-11.1		131.4		-509	-1004	545,029	1,690,708
166	797		220° 20'	- -	9.1	-		-9.1		133.4		-369	-707	545,169	1,691,005
167	467		220° 50'	+22.0	7.0	-		-7.0		135.5		-213	-416	545,325	1,691,296
168	139		223° 30'	- -	6.6	-		-6.6		135.9		-57	-127	545,481	1,691,585
TP	0		° ,	- -	5.1	-		-5.1		137.4	TP	0	0	545,538	1,691,712
169	191		54° 10'	+22.0	5.0	TH	+1.0	-4.0		138.5		+45	+186	545,583	1,691,898
170	521		57° 10'	- -	5.6	TH	+2.6	-3.0		139.5		+97	+512	545,635	1,692,224
171	850		55° 30'	- -	5.4	TH	+4.3	-1.1		141.4		+183	+830	545,721	1,692,542

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6-10-85		B. Cotcamp		K. Greenfield		6834		KWA		6		17			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASHINGTON		CLEAR LAKE-15'		WASH.		SKAGIT								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH -	EAST + WEST -		Y
									142.5						
172	1179		54° 03' 46"	+22.0	1.6	-		-1.6		140.9	TP	+284	+1144	545,822	1,692,856
172	1179			-	7.5	TH	+5.9	-1.6			TP				
	1649		228° 57' 10"	-	4.8	-		+4.8		145.7	BS	+538	+1559		
	1649			-	4.7	270°		+4.7			BS				
173	1320		229° 05'	+22.0	5.0	-		-5.0		140.7		-426	-1249	545,934	1,693,166
174	990		229° 10'	-	8.6	TH	+5.0	-3.6		142.1	H	-320	-937	546,040	1,693,478 # y=316.040x-1,693,500 # Creek crossing
175	660		229° 30'	-	5.1	TH	+3.3	-1.8		143.9		-208	-626	546,152	1,693,789
176	336		-	-	4.9	TH	+1.7	-3.2		142.5		-104	-313	546,256	1,694,102
177	0			-	5.1	-		-5.1		140.6	X	0	0	546,360	1,694,415
178	330		50° 05'	-	8.6	-		-8.6		137.1		+101	+314	546,461	1,694,729
71	390		48° 41' 45"	+22.0	8.8	-		-8.8		136.9	71	+129	+368	546,489	1,694,783 # y=546,525x-1,694,710 # Intersect
179	660		49° 40'	-	10.3	-		-10.3		135.4		+207	+627	546,567	1,695,042
180	990		49° 05'	-	8.2	BH	-5.0	-13.2		132.5		+319	+937	546,679	1,695,352
181	1320		-	-	10.3	BH	-6.6	-16.9		128.8		+426	+1249	546,786	1,695,664
182	1651		48° 44' 45"	+22.0	7.8	90° 30'	-14.4	-22.2		123.5	TP	+544	+1559	546,904	1,695,974 Access Sta.
182	1651			-	7.9	269° 30'	-14.4	-22.3			TP				
	729		232° 55' 05"	-	1.9	TH	-3.6	-1.7		171.8	BS	+190	+704		
	729			-	10.9	89°	-12.7	-1.8			BS				
183	399		230° 55'	+22.0	7.0	89° 20'	+4.6	-2.4		119.4		-117	-382	546,977	1,696,296
184	70		223° 20'	-	6.5	89° 20'	+0.8	-5.7		116.1		-29	-64	547,065	1,696,614

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
6-10-85		B. Cotcamp		K. Greenfield		6834		MWR		6	18				
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
WASHINGTON		CLEAR LAKE-15		WASH.		SKAGIT					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
									121.8						
π	0			+22.0	5.1	-		-5.1		116.7	π	0	0	547,094	1,696,678
185	269		78° 15'	-	6.0	-		-6.0		115.8		-48	+265	547,046	1,696,943
186	599		77° -	-	7.5	TH	+3.0	-4.5		117.3		-95	+591	546,999	1,697,269
187	929		76° 55'	-	8.0	TH	+4.6	-3.4		118.4		-146	+918	546,948	1,697,596
188	1259		" " "	-	8.0	TH	+6.3	-1.7		120.1		-197	+1243	546,897	1,697,921
TP	1480		79° 01' 42"	+22.0	6.8	TH	+7.4	+0.6		122.4	TP	-283	+1453	546,811	1,698,131
TP	1480		" " "	-	6.9	TH 210°	+7.4	+0.5			TP				
	229		260° 02' 51"	- +	8.5	-		+8.5	130.9		BS	-48	+224		
	229		" " "	+22.0	7.3	TH	+1.1	+8.4			BS				
189	132		250° 50'	-	4.9	90° 36'	-1.4	-6.3		124.6		+7	-132	546,770	1,698,223
π	0			-	5.1	-		-5.1		125.8	π	0	0	546,763	1,698,355
190	193		63° 05'	-	4.7	81°	+3.4	-1.3		129.6		+16	+192	546,779	1,698,547
TP	476		57° 07' 22"	+22.0	7.3	-		-7.3		123.6	TP	+90	+467	546,853	1,698,822
TP	476		" " "		7.2	270°		-7.2			TP				
	1978		237° 25' 15"	+22.3	2.6	-		+2.6	126.2		BS	+353	+1946		
	1978		" " "	- +	2.5	270°		+2.5			BS				
191	1934		237° 50'	-	13.2	TH	+9.7	-3.5		122.7		-331	-1905	546,875	1,698,863
192	1616		240° 35'	+22.3	7.9	-		-7.9		118.3		-200	-1604	547,006	1,699,164
193	1302		244° 40'	-	7.8	-		-7.8		118.4		-69	-1300	547,137	1,699,468
194	998		251° -	-	9.0	-		-9.0		117.2		+57	-996	547,263	1,699,772

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE							
6-10-85		B. Cotcamp		K. Greenfield		6834		D.S.		6		19							
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER					
WASHINGTON		CLEAR LAKE-15'		WASH.		SKAGIT								C. Cassidy					
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS	
												LAT.	DEP.	Y	X				
									126.2										
195	671		252 40	+22.3	9.2	-	-9.2		117.0			+58	-668	547,264	1,700,100				
196	341		250 10	-	10.7	-	-10.7		115.5			+14	-341	547,220	1,700,427				
197	17		228 10	-	6.3	-	-6.3		119.9			-6	-16	547,200	1,700,752				
π	0			-	5.1	-	-5.1		121.1		π	0	0	547,206	1,700,768				
198	309		354 20	+22.3	7.2	-	-7.2		119.0			+296	+88	547,502	1,700,856				
199	638		351 35	-	6.0	90 38	-7.0	-13.0	113.2			+619	+153	547,825	1,700,921				
TP	841		352 21 35	+22.3	8.8	90 30	-7.3	-16.1	110.1		TP	+814	+213	548,020	1,700,981				
TP	841			-	8.7	269 30	-7.3	-16.0			TP								
	627		196 54 42	-	4.3	-	+4.3	114.4			BS	+486	+396						
	627			+22.3	4.2	270	+4.2					BS							
200	499		195 50	-	6.3	TH	+2.5	-3.8	110.6			-393	-308	548,113	1,701,069				
201	178		1181 10	-	5.7	-	-5.7		108.7			-163	-71	548,343	1,701,306				
π	0			-	5.1	-	-5.1		109.3		π	0	0	548,506	1,701,377				
202	148		338 15	-	7.0	-	-7.0		107.4			+148	+1	548,654	1,701,378				
203	478		-	+22.3	8.1	-	-8.1		106.3			+478	+5	548,984	1,701,382				
204	808		-	-	8.9	-	-8.9		105.5			+808	+8	549,314	1,701,385				CLEAR LAKE-15'
205	1138		-	-	11.6	-	-11.6		102.8			+1138	+11	549,644	1,701,388				LYMAN - 7 1/2'
206	1468		-	-	12.8	-	-12.8		101.6			+1468	+14	549,974	1,701,391				
TP	1689		337 50 52	+22.3	12.4	-	-12.4	102.0			TP	+1689	+4	550,195	1,701,381				
TP	1689			-	12.3	270	-12.3					TP							

TL 5-550,200X-1,701,360
IF 4 way inter.
EL. 102.0

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY			LINE NO.		PAGE		
6-10-85		B. Cotnam		K. Greenfield		6834		DS			6		20		
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASHINGTON		LYMAN - 1 1/2'		WASH.		SKAGIT								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
										102.0					
	1808		249 23 06	+22.3	14.1	-		+14.1	116.1		BS	-53	+1807		
	1808				14.0	270-		+14.0		BS					
207	1650		249 02'	--	6.2	84	-8.3	-14.5		101.6		+38	-1650	550,180 1,701,538	
208	1320		--	--	12.2	-		-12.2		103.9		+31	-1320	550,173 1,701,868	
209	990		--	--	11.6	-		-11.6		104.5		+23	-990	550,165 1,702,198	
210	660		--	--	9.8	-		-9.8		106.3		+15	-660	550,157 1,702,528	
211	330		--	--	5.9	-		-5.9		110.2		+8	-330	550,150 1,702,858	
212	0				5.1	-		-5.1		111.0	π	0	0	550,142 1,703,188	
211	177		65 17 46	+22.3	7.4	-		-7.4		108.7	π	+7	+177	550,149 1,703,365 4-550,130 x -1,703,345 T-Inter. EL. 108.0	
213	330		69 50'	--	12.0	-		-12.0		104.1		-12	+330	550,130 1,703,518	
214	660		--	--	12.0	90 40'	-7.7	-19.7		96.4		-25	+660	550,117 1,703,848	
215	990		--	--	10.2	90 40'	-11.5	-21.7		94.4		-37	+989	550,105 1,704,177	
216	1320		69 55'	--	5.1	90 40'	-15.4	-20.5		95.6		-51	+1319	550,091 1,704,507	
217	1650		69 40'	+22.3	6.9	90 30'	-14.4	-21.3		94.8		-57	+1649	550,085 1,704,837	
218	1980		69 35'	--	7.0	90 30'	-17.3	-24.3		91.8		-65	+1979	550,077 1,705,167	
218	2134		69 15 34	--	8.2	90 30'	-18.6	-26.8		89.3	π	-58	+2133	550,084 1,705,321 5-550,090 x -1,705,300 T-Inter.	
219	2309		69 30'	--	9.7	90 30'	-20.2	-29.9		86.2		-73	+2308	550,069 1,705,496	
TP	2517		69 06 06	+22.2	7.2	90 30'	-22.0	-29.2		86.9	TP	-57	+2516	550,085 1,705,704	
TP	2517				7.1	269 30'	-22.0	-29.1			TP				

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6-15-85		B. Cotcamp		K. Greenfield		6834		B.C.		6		21			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASHINGTON		LYMAN - 7 1/2'		WASH.		SKAGIT								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
										86.9					
	2431		241 03 33	+22.2	13.9	-		+13.9	100.8		BS	+285	+2414		
	2431				14.0	270 -		+14.0		BS					
220	2309		241 -	--	12.1	-		-12.1		88.9		-273	-2293	550,097	1705825
221	1980		-	--	7.2	-		-7.2		93.6		-234	-1966	550,136	1706152
222	1650		-	--	9.1	-		-9.1		91.7		-195	-1638	550,175	1706480
223	1320		241 -	+22.2	7.2	-		-7.2		93.6		-156	-1311	550,214	1706807
224	990		--	--	9.0	TH	+5.0	-4.0		96.8		-117	-983	550,253	1707135
225	660		--	--	7.8	TH	+3.3	-4.5		96.3		-78	-655	550,292	1707463
226	330		--	--	6.2	TH	+1.7	-4.5		96.3		-39	-328	550,331	1707790
227	0				5.1	-		-5.1		95.7	TP	0	0	550,370	1708118
228	330		60 58	+22.2	8.8	89 10	+4.8	-4.0		96.8		+39	+328	550,409	1708446
229	660		--	--	9.5	89 10	+9.6	+0.1		100.9		+79	+655	550,449	1708773
230	990		--	--	8.5	89 10	+14.4	+5.9		106.7		+118	+983	550,488	1709101
231	1320		60 58	--	7.9	89 10	+19.2	+11.3		112.1		+157	+1311	550,527	1709429
232	1650		--	--	6.9	89 10	+24.0	+17.1		117.9		+196	+1638	550,566	1709756
233	1980		60 34 50	+22.2	6.4	89 10	+24.4	+18.0		119.8		+211	+1668	550,581	1709786
234	2310		60 58	--	5.0	89 10	+28.8	+23.8		124.6		+236	+1966	550,606	1710114
235	2642		--	--	3.2	89 10	+33.6	+30.4		131.2		+275	+2294	550,645	1710412
235	2642		60 51 44	--	2.3	89 10	+38.4	+36.1		136.8	TP	+319	+2622	550,689	1710740
235	2642				2.5	270 50	+38.4	+35.9	+36.03		TP				

ACROSS STA.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6-15-85		B. Cotcamp		K. Greenfield		6834		B.C.		6		22			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASHINGTON		LYMAN 7 1/2'		WASH.		SKAGIT								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
										136.8					
	766		252 53 53	+22.2	14.2	88 20	-22.3	-8.1	128.7		BS	-68	+763		
	766				14.3	27 40	-22.3	-8.0		BS					
236	435		251 40	--	6.1	87 50	+16.4	+10.3		139.0		+29	-434	550,650	1,711,069
237	105		- -	--	5.0	86 50	+5.8	+0.8		129.5		+7	-105	550,628	1,711,398
	π 0				5.1	-		-5.1		123.6	π	0	0	550,621	1,711,503
238	126		60 27 57	+22.2	8.2	91 10	-2.6	-10.8		117.9		+16	+125	550,621	1,711,628
238	225		66 -	--	6.2	92 -	-7.8	-14.0		114.7		+7	+225	550,628	1,711,728
239	555		62 30 -	--	8.6	90 40	-6.5	-15.1		113.6		+51	+553	550,672	1,712,056
240	881		59 37 51	--	5.0	90 40	-10.3	-15.3		113.4	TP	+125	+872	550,746	1,712,375
240	881				2.4	90 50	-12.8	-15.2			TP				
	1522		227 17 14	+22.2	1.9	TH	-7.6	-5.7	107.7		BS	+533	+1426		
	1522				2.0	TH 270	-7.6	-5.6		BS					
241	1191		226 40	--	5.0	89 50	+3.5	-1.5		106.2		-429	-1111	550,850	1,712,690
242	863		227 10	--	6.8	89 50	+2.5	-4.3		103.4		-304	-808	550,925	1,712,993
243	535		226 20	--	8.1	89 50	+1.6	-6.5		101.2		-196	-498	551,083	1,713,303
244	209		217 30	--	6.6	89 50	+0.6	-6.0		101.7		-105	-180	551,174	1,713,621
	π 0				5.1	-		5.1		102.6	π	0	0	551,279	1,713,801
245	120		36 - 1	+22.2	5.3	89 50	+0.3	-5.0		102.7		+63	+102	551,342	1,713,903
14	213		32 16 12	--	5.6	89 50	+0.6	-5.0		102.7		+124	+173	551,403	1,713,974

550,615 x 1,711,620
IT-Enter

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
6-15-85		B. Cotcamp		K. Greenfield		6834		D.S.		6		23				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
WASHINGTON		LYMAN-7 1/2'		WASH.		SKagit								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
246	450		32 45	+22.2	8.1	89°50'	+1.3	-6.8		100.9		+258	+368	551,537	1714169	
247	778		29 45	--	9.2	89°50'	+2.3	-6.9		100.8		+480	+613	551,759	1714414	
TP	1022		28 51 16	--	10.5	89°50'	+3.0	-7.5			TP	+642	+795	551,921	1,714,516	
TP	1022				7.6	-		-7.6		100.1	TP					
	1012		191 50 06	+22.2	3.5	-		+3.5			BS	+839	+566			
	1012				+8.5	TH	-5.1	+3.4	103.5		BS					
248	925		191 30	--	7.9	TH	+4.6	-3.3		100.2		-770	-513	551,990	1714649	
249	598		190 50	--	7.3	TH	+3.0	-4.3		99.2		-501	-326	552,259	1,714,836	
250	267		190 45	--	5.9	89°	+4.7	-1.2		102.3		-224	-145	552,536	1,715,015	
X	0				5.1	-		-5.1		98.4	X	0	0	552,760	1,715,162	
251	71		42 40	+22.2	7.3	89°	+1.2	-6.1		97.4		+30	+64	552,790	1,715,226	
252	398		35 35	--	5.8	-		-5.8		97.7		+212	+337	552,972	1,715,499	
253	728		34 40	--	8.0	-		-8.0		95.5		+398	+610	553,158	1,715,772	
TP	922		32 59 16	--	8.8	-		-8.8		94.7	TP	+526	+757	553,286	1,715,919	
TP	922				4.2	TH	-4.6	-8.8			TP					
	847		211 00 41	+22.2	3.7	-		+3.7	98.4		BS	+507	+678			
	847				+8.0	TH	-4.2	+3.8			BS					
254	712		210 45	--	4.8	-		-4.8		93.6		-429	-568	553,364	1716029	
255	383		212 50	--	5.4	-		-5.4		93.0		-220	-314	553,573	1,716,283	
256	58		191 15	--	5.0	-		-5.0		93.4		-48	-32	553,745	1,716,565	

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6-15-85		B. Cotcamp		K. Greenfield		6834		D.S.		6		24			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASHINGTON		LYMAN-7E		WASH.		SKAGIT								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
									98.4						
π	0				5.1	-		-5.1		93.3	π	0	0	553,793	1,716,597
41	255		42° 25' 42"	+22.2	5.8	TH	+1.3	-4.5		93.9	41	+109	+230	553,902	1,716,827
257	280		44° 35'	--	4.9	-		-4.9		93.5		+110	+257	553,903	1,716,854
258	610		42° 20'	--	5.0	-		-5.0		93.4		+262	+551	559,055	1,717,148
259	939		41° 30'	--	9.2	TH	+4.7	-4.5		93.9		+416	+842	554,209	1,717,439
260	1269		41° 15'	--	9.2	TH	+6.3	-2.9		95.5		+567	+1135	554,360	1,717,732
261	1599		41° 40'	--	7.3	TH	+8.0	+0.7		99.1		+704	+1436	554,477	1,718,033
TP	1684		41° 31' 45"	--	6.2	TH	+8.4	+2.2		100.6	TP	+745	+1510	554,538	1,718,107
TP	1684			--	6.1	TH 270'	+8.4	+2.3			TP				
	848		248° 54' 10"	+22.2	12.5	-		+12.5			BS	-16	+848		
	848			+22.2	12.4	270'		+12.4	113.0		BS				
262	595		249° -	--	12.4	TH	+3.0	-9.4		103.6		+12	-595	554,534	1,718,360
IL	287		249° 40' 45"	--	5.2	89'	+5.0	-0.2		112.8	IL	+9	-287	554,531	1,718,668
263	265		247° 15'	--	5.0	89'	+4.6	-0.4		112.6		-3	-265	554,519	1,718,690
π	0				5.1	-		-5.1		107.9	π	0	0	554,522	1,718,955
264	71		96° 10'	+22.2	6.7	-		-6.7		106.3		-34	+62	554,488	1,719,017
265	400		83° 40'	--	9.4	-		-9.4		103.6		-109	+385	554,413	1,719,340
266	730		83° 15'	--	11.1	-		-11.1		101.9		-194	+704	554,328	1,719,659
TP	1001		80° 37' 33"	--	14.6	-		-14.6		98.4	TP	-222	+976	554,300	1,719,931
TP	1001			--	9.6	BN	-5.0	-14.6			TP				

553,885 x 1,716,840
Hy-Intere.

LYMAN-7E
Hamilton-15

554,550 x 1,718,600
IL creek crossing

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6-15-85		B. Cotcamp		K. Greenfield		6834		B.C.		6		25			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASHINGTON		Hamilton - 15		WASH.		SKAGIT								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
			0 1 45						98.4						
	876		230 02 45	+22.1	7.6	-		+7.6	106.0		BS	+269	+834		
	876				12.0	TH	-4.4	+7.6		BS					
267	818		229 55	--	6.8	-		-6.8	99.2			-253	-778	554,316	1,719,987
268	490		226 30	--	6.2	-		-6.2	99.8			-179	-456	554,390	1,720,309
269	160		- -	--	6.3	-		-6.3	99.7			-58	-149	554,511	1,720,116
	0				5.1	-		-5.1	100.9		TP	0	0	554,569	1,720,765
270	169		57 -	+22.1	5.4	-		-5.4	100.6			+32	+166	554,601	1,720,931
TP	362		59 12 11	--	5.0	-		-5.0	101.0		TP	+55	+358	554,624	1,721,123
TP	362				3.2	BH	-1.8	-5.0		TP					
	588		255 13 30	--	+4.9	-		+4.9	105.9		BS	-75	+583		
	588				+7.8	TH	-2.9	+4.9		BS					
271	450		256 25	--	5.8	-		-5.8	100.1			+67	-445	554,616	1,721,261
272	122		247 30	--	5.7	-		-5.7	100.2			-1	-122	554,548	1,721,584
	0				5.1	-		-5.1	100.8		TP	0	0	554,549	1,721,706
273	205		52 30	+22.1	5.9	-		-5.9	100.0			+54	+198	554,603	1,721,904
274	534		47 45	--	5.0	-		-5.0	100.9			+184	+501	554,733	1,722,207
275	866		47 48 10	--	3.9	-		-3.9	101.9		TP	+298	+813	554,847	1,722,519
275	866				8.3	TH	+4.3	-4.0		TP					
	588		251 28 42	+22.1	3.7	BH	+2.9	+6.6	108.5		BS	-37	+587		
	588				3.8	BH ₂₇₀	+2.9	+6.7		BS					

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6-15-85		B. Cotcamp		K. Greenfield		6834		+2.5. rwa		6		26			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASHINGTON		Hamilton - 15		WASH.		SKagit								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
									108.5						
276	254		252° 30'	+22.1	6.2	-	-6.2		102.3			+20	-253	554,830	1,722,853
TP	0				5.1	-	-5.1		103.4	TP	0	0	0	554,810	1,723,106
277	76		74° 10'	-	5.9	-	-5.9		102.6			-8	+76	554,802	1,723,182
278	406		-	-	6.5	TH	+2.0	-4.5	104.0			-44	+404	554,766	1,723,510
279	735		74° 20'	-	5.0	-	-5.0		103.5			-82	+730	554,728	1,723,836
280	1061		72° 09' 39"	-	7.0	-	-7.0		101.5	TP		-79	+1058	554,731	1,724,164
280	1061				6.9	270°	-6.9			TP					
	1911		226° 16' 59"	+22.1	6.7	-	+6.7		108.2	BS		+704	+1777		
	1911				6.8	270°	+6.8			BS					
281	1585		225° 05'	-	7.9	-	-7.9		100.3			-615	-1461	554,820	1,724,480
282	1255		-	-	7.1	-	-7.1		101.1			-487	-1157	554,948	1,724,784
283	925		-	-	6.6	-	-6.6		101.6			-359	-853	555,076	1,725,088
284	595		-	-	6.3	-	-6.3		101.9			-231	-548	555,204	1,725,393
285	265		-	-	6.0	-	-6.0		102.2			-103	-244	555,332	1,725,697
TP	0				5.1	-	-5.1		103.1	TP	0	0	0	555,435	1,725,941
286	76		83° 05'	+22.1	6.0	-	-6.0		102.2			-20	+73	555,415	1,726,014
TP	167		69° 24' 36"	-	5.6	-	-5.6		102.6	TP		-4	+167	555,431	1,726,108
287	404		76° 24'	-	5.6	-	-5.6		102.6			-60	+400	555,375	1,726,341
TP	503		76° 30' 33"	-	5.4	-	-5.4		102.8	TP		-75	+497	555,360	1,726,438
TP	503				7.9	TH	+2.5	-5.4		TP					

4 - 555,430 x 1,726,100
71 y. inter.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE		
6-15-85		B. Costamp		K. Greenfield		6834		B.C.		6		27		
AREA		TOWNSHIP		STATE		COUNTY		RANGE		PPM		PARTY MANAGER		
WASHINGTON		MAMILTON -15'		WASH.		SKAGIT						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.	
									102.8					
	1881		265° 16' 25"	+22.1	5.9	-		+5.9	108.7		BS	-562	+1795	
	1881				6.0	270° -		+6.0		BS				
288	1649		264° 50'	-	6.3	-		-6.3	102.4			+480	-1578	555,278 1,726,655
289	1320		-	-	7.0	-		-7.0	101.7			+384	-1263	555,182 1,726,970
296	990		264° 20'	-	7.1	-		-7.1	101.6			+280	-950	555,078 1,727,283
291	660		263° 46'	-	7.1	-		-7.1	101.6			+179	-635	554,977 1,727,598
292	330		262° 10'	-	5.7	-		-5.7	103.0			+81	-320	554,879 1,727,913
293	0				5.1	-		-5.1	103.6		X	0	0	554,798 1,728,233
294	330		76° 15'	+22.1	4.8	-		-4.8	103.9			-48	+327	554,250 1,728,560
295	660		-	-	5.5	-		-5.5	103.2			-96	+653	554,202 1,728,886
296	990		-	-	9.3	TH	+5.0	-4.3	104.4			-144	+980	554,654 1,729,213
297	1320		-	-	4.2	-		-4.2	104.5			-192	+1306	554,606 1,729,539
298	1650		75° 55'	-	11.8	TH	+8.3	-3.5	105.2			-230	+1634	554,568 1,729,867
299	1980		75° 50'	-	12.7	TH	+9.9	-2.8	105.9			-273	+1961	554,525 1,730,194
300	2310		-	-	12.9	TH	+11.6	-1.3	107.4			-319	+2288	554,479 1,730,521
TP	2552		75° 57' 04"	-	5.3	89° 50'	+7.4	+2.1	110.6		TP	-357	+2527	554,441 1,730,760
TP	2552				5.6	270° 10'	+7.4	+1.8		+1.9	TP			
	2396		263° 44' 36"	+22.1	13.6	BH	+12.0	+25.6	136.2		BS	-654	+2305	
	2396				13.7	BH 270° -	+12.0	+25.7		BS				

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6-15-85		B. Cotcamp		K. Greenfield		6834		D.S.		6		28			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASHINGTON		HAMILTON-15		WASH.		SKAGIT								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
									136.2						
301	2309		263° 35'	+22.1	12.6	BH	-11.5	-24.1		112.1		+624	-2223	554,411	1,730,842
302	1980		263° 30'	--	10.1	BH	-9.9	-20.0		116.2		+532	-1907	554,319	1,731,158
303	1650		263° 20'	--	7.4	BH	-8.3	-15.7		120.5		+439	-1591	554,226	1,731,474
304	1320		262° 50'	--	11.4	-		-11.4		124.8		+340	-1275	554,127	1,731,790
1 ^k	1338		263° 29' 24"	--	11.6	-		-11.6		124.6	1 ^k	+360	-1289	554,147	1,731,776
305	990		262° 40'	--	9.8	-		-9.8		126.4		+252	-957	554,039	1,732,108
306	660		262° 05'	--	8.7	-		-8.7		127.5		+162	-640	553,949	1,732,425
307	330		--	--	6.0	-		-6.0		130.2		+81	-320	553,868	1,732,745
308	0		--	--	5.1	-		-5.1		131.1	TP	0	0	553,787	1,733,065
309	330		80° 35'	+22.1	6.3	TH	+1.7	-4.6		131.6		-72	+322	553,715	1,733,387
310	660		--	--	8.0	TH	+3.3	-4.7		131.5		-145	+644	553,642	1,733,709
311	990		81° --	--	5.3	-		-5.3		130.9		-224	+964	553,563	1,734,029
312	1320		--	--	6.7	-		-6.7		129.5		-299	+1286	553,488	1,734,351
313	1650		80° 30'	+22.1	8.2	-		-8.2		128.0		-360	+1610	553,427	1,734,675
TP	1821		79° 49' 17"	--	8.5	--		-8.5			TP	-376	+1782	553,411	1,734,847
TP	1821		--	--	8.6	270°		-8.6		127.6	TP				
	486		257° 05' 45"	--	4.1	-		+4.1	131.7		BS	-78	+480		
	486		--	--	6.6	TH	-2.4	+4.2			BS				
314	330		258° --	--	6.2	TH	+1.7	-4.5		127.2		+58	-325	553,391	1,735,002
315	0		--	--	5.1	-		-5.1		126.6	TP	0	0	553,333	1,735,327

554,100 x 1,731,780
1^k T - enter.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6-15-85		B. Cotcamp		K. Greenfield		6834		D.S.		B.C.		6 29			
AREA		TOP MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASHINGTON		Hamilton-15		WASH.		SKagit								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
									131.7						
316	330		82° 30'	+22.1	6.4	-	-6.4		125.3			-83	+319	553,250	1,735,646
317	660		82° 40'	-	6.7	-	-6.7		125.0			-168	+638	553,165	1,735,965
318	989		83° 35'	-	6.4	-	-6.4		125.3			-267	+952	553,066	1,736,279
319	1318		82° 50'	-	5.0	-	-5.0		126.7			-340	+1273	552,993	1,736,600
TP	1403		81° 58' 36"	-	4.4	-	-4.4				TP	-341	+1361	552,992	1,736,688
TP	1463			-	4.5	270°	-4.5		127.2		TP				
	2554		239° 23' 23"	+22.1	4.6	89° 50'	-7.4	+2.2	129.4		BS	+378	+2526		
	2554			-	9.7	270° 10'	-7.4	+2.3			BS				
#	2316		239° 09' 26"	-	5.0	89° 50'	+6.7	+1.7	131.1		#	-352	-2289	553,018	1,736,925
320	2310		238° 52'	-	5.0	89° 50'	+6.7	+1.7	131.1			-363	-2281	553,007	1,736,933
FE	2215		239° 08' 54"	-	5.0	89° 50'	+6.4	+1.4	130.8		FE	-337	-2189	553,033	1,737,025
321	1981		238° 52'	-	4.0	-	-4.0		125.4			-311	-1956	553,059	1,737,258
322	1651		-	+22.1	8.2	-	-8.2		121.2			-259	-1631	553,111	1,737,583
323	1321		-	-	8.0	-	-8.0		121.4			-207	-1305	553,163	1,737,909
324	991		-	-	7.3	-	-7.3		122.1			-156	-979	553,244	1,738,235
325	661		-	-	7.8	-	-7.8		121.6			-104	-653	553,266	1,738,661
326	331		-	-	7.2	-	-7.2		122.2			-52	-327	553,318	1,738,887
327	0				5.1	-	-5.1		124.3		π	0	0	553,370	1,739,214
328	332		76° 40'	+22.1	6.2	-	-6.2		123.2			-51	+328	553,319	1,739,542
329	662		75° 30'	-	5.8	-	-5.8		123.6			-88	+656	553,282	1,739,870

y=553,030 x=1,737,950
Section line

y=553,040 x=1,737,050
creek

ACROSS STA.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6-15-85		B. Cotcamp		K. Greenfield		6834		D.S.		6		30			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASHINGTON		HAMILTON-15'		WASH.		SKAGIT								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
									129.4						
330	991		75° 05'	+22.1	5.0	-		-5.0		124.4		-124	+983	553,246	1,740,197
331	1321		75° 25'	--	4.8	-		-4.8		124.6		-173	+1310	553,197	1,740,524
TP	1481		75° 29' 27"	--	10.7	TH	+7.4	-3.3			TP	-196	+1468	533,174	1,740,642
TP	1481				10.8	TH 270'	+7.4	-3.4		126.0	TP				
	650		283° 09' 42"	+22.1	2.2	-		+2.2			BS	-375	+531		
	650				5.4	TH	-3.3	+2.1	128.1		BS				
332	471		282° 40'	--	4.8	89° 40'	+2.7	-2.1		126.0		+269	-387	553,069	1,740,426
333	148		269° 20'	--	5.4	89° -	+2.6	-2.8		125.3		+54	-138	552,853	1,741,075
TP	0				5.1	-		-5.1		123.0	TP	0	0	552,799	1,741,213
334	178		90° 40'	+22.1	5.0	89° -	+3.1	-1.9		126.2		-69	+164	552,730	1,741,377
335	506		83° 40'	--	6.4	89° 20'	+5.9	-0.5		127.6		-137	+487	552,162	1,741,700
336	836		82° 40'	--	5.0	89° 40'	+4.9	-0.1		128.0		-213	+808	552,586	1,742,021
337	1166		83° 20'	--	5.7	89° 40'	+6.8	+1.1		129.2		-310	+1124	552,489	1,742,337
TP	1261		83° 25' 21"	--	6.0	89° 40'	+7.3	+1.3			TP	-337	+1215	552,462	1,742,428
TP	1261				6.1	270° 20'	+7.3	+1.2		129.3	TP				
	560		266° 49' 10"	+22.1	2.4	-		+2.4	131.7		BS	-182	+530		
	560				5.2	TH	-2.8	+2.4			BS				
338	328		262° 30'	--	5.5	TH	+1.6	-3.9		127.8		+83	-317	552,363	1,742,641
339	0			--	5.1	-		-5.1		126.6	TP	0	0	552,280	1,742,958
340	330		71° 50'	--	5.6	-		-5.6		126.1		-23	+329	552,257	1,743,287

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
6-15-85		B. Cotcamp		K. Greenfield		6834		D.S. NW6		6		31				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
WASHINGTON		Hamilton-15'		WASH.		SKagit								W. Cassidy		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
									131.7							
340	365		69 30 44	+22.1	5.3	-	-5.3		126.4		TP	-10	+365	552,270	1,743,323	y-552,235 x-1,743,350 creek
341	660		70 10	~	6.5	-	-6.5		125.2			-26	+659	552,254	1,743,617	
342	989		68 55	~	7.3	-	-7.3		124.4			-18	+989	552,262	1,743,947	
TP	1154		67 02 46	..	7.4	-	-7.4		124.3		TP	+17	+1154	552,297	1,744,112	
TP	1154				13.2	TH	+5.8	-7.4			TP					
	2140		217 12 57	+22.1	5.9	-	+5.9				BS	+1092	+1840			
	2140				5.8	270 -	+5.8		130.1		BS					
343	1980		216 35	--	6.2	-	-6.2		123.9			-1029	-1692	552,360	1,744,260	
344	1650		216 30	--	5.9	-	-5.9		124.2			-860	-1408	552,529	1,744,544	
345	1320		--	--	5.1	-	-5.1		125.0			-688	-1127	552,701	1,744,825	
346	990		--	+22.1	5.3	-	-5.3		124.8			-516	-845	552,873	1,745,107	
347	660		--	--	5.2	-	-5.2		124.9			-344	-563	553,045	1,745,389	
348	330		--	--	5.3	-	-5.3		124.8			-172	-282	553,217	1,745,670	
349	0				5.1	-	-5.1		125.0		X	0	0	553,389	1,745,952	
JK	255		42 20 52	+22.1	4.5	-	-4.5		125.6		JK	+110	+230	553,499	1,746,182	J-553,500 X-1,746,180 BRIDGE
350	330		44 15	--	4.8	-	-4.8		125.3			+132	+302	553,521	1,746,254	
351	660		--	--	5.9	-	-5.9		124.2			+265	+605	553,754	1,746,557	
352	990		--	--	6.4	-	-6.4		123.7			+397	+907	553,786	1,746,859	
353	1320		--	--	5.8	-	-5.8		124.3			+530	+1209	553,919	1,747,161	
354	1650		--	--	6.1	-	-6.1		124.0			+662	+1511	554,051	1,747,463	

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO		PAGE			
6-18-85		B. Cotcamp		K. Greenfield		6834		D.S. B.C.		6		32			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASHINGTON		Hamilton - 15'		WASH.		SKagit								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
									130.1						44' 00" 21
355	1980		44 15	+22.1	6.3	-	-6.3		123.8	44	+794	+1814	554,143	1,747,766	
356	2310		-	--	6.1	-	-6.1		124.0		+927	+2116	554,316	1,748,068	
357	2640		-	--	5.3	-	-5.3		124.8		+1059	+2418	554,448	1,748,370	
358	2970		-	--	3.8	-	-3.8		126.3		+1191	+2721	554,580	1,748,673	
359	3300		44 15	+22.1	3.8	-	-3.8		126.3		+1324	+3023	554,713	1,748,975	
360	3629		-	--	10.9	89 52	+8.5	-2.4	127.7		+1456	+3324	554,845	1,749,276	
361	3959		-	--	10.1	89 52	+9.2	-0.9	129.2		+1588	+3627	554,977	1,749,579	
362	4289		-	--	10.1	89 52	+10.0	-0.1	130.0		+1721	+3929	555,110	1,749,881	
363	4619		44 23	--	10.9	89 52	+10.8	-0.1	130.0		+1843	+4235	555,232	1,750,187	
TP	4793		44 21 35	--	11.5	89 52	+11.2	-0.3			TP	+1914	+4394	555,303	1,750,346
TP	4793				11.6	276 08	+11.2	-0.4		129.7	TP				
	1005		246 32 16	+22.1	8.9	-	+8.9		138.6		BS	+24	+1005		
	1005				14.0	TH	-5.0	+9.0			BS				
364	841		246 15	--	7.3	-	-7.3		131.3		-24	-841	555,303	1,750,510	
365	511		247 40	--	6.2	-	-6.2		132.4		-2	-511	555,325	1,750,840	
366	181		245 -	--	5.7	-	-5.7		132.9		-9	-181	555,318	1,751,170	
TP	0				5.1	-	-5.1		133.5		TP	0	0	555,327	1,751,351
367	155		89 -	+22.1	5.3	TH	+0.8	-4.5	134.1		-56	+145	555,271	1,751,496	
368	484		83 10	--	5.8	TH	+2.4	-3.4	135.2		-127	+467	555,200	1,751,818	
369	814		83 40	-	7.1	TH	+4.1	-3.0	135.6		-221	+783	555,106	1,752,134	

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
C-18-85		B. Cotcamp		K. Greenfield		6834		D.S.		6		33			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASHINGTON		Hamilton - 15'		WASH.		Skagit								C. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									138.6						
370	1143		82° 40'	+22.1	7.0	TH	+5.7	-1.3		137.3		-291	+1105	555,036	1,752,456
371	1465		79° 44' 38"	-	2.2	-		-2.2		136.4	TP	-301	+1434	555,026	1,752,785
371	1465				9.5	TH	+7.3	-2.2			TP				
	1279		243° 45' 34"	-	+11.7	-		+11.7			BS	+92	+1276		
	1279				+11.6	270°		+11.6		148.0	BS				
372	950		242° 55'	+22.1	10.0	-		-10.0		138.0		-83	-946	555,035	1,753,115
373	620		241° 15'	-	6.9	-		-6.9		141.1		-72	-616	555,046	1,753,445
374	292		236° 55'	-	4.8	-		-4.8		143.2		-56	-287	555,062	1,753,774
JK	239		238° 55' 16"	-	4.8	-		-4.8		143.2	JK	-37	-236	555,081	1,753,825
JK	0				5.1	-		-5.1		142.9	JK	0	0	555,118	1,754,061
375	37		46° 15'	+22.1	5.8	-		-5.8		142.2		+14	+34	555,132	1,754,095
376	365		43° 05'	-	7.1	-		-7.1		140.9		+153	+33.1	555,271	1,754,392
377	694		39° 30'	-	8.1	-		-8.1		139.9		+330	+610	555,448	1,754,671
378	1023		38° 20'	-	12.0	TH	+5.1	-6.9		141.1		+505	+890	555,623	1,754,951
JK	1020		37° 34' 22"	-	7.0	-		-7.0		141.0	JK	+515	+880	555,633	1,754,941
379	1353		37° 40'	-	5.0	-		-5.0		143.0		+681	+1169	555,799	1,755,230
380	1683		37° 10'	-	10.9	TH	+8.4	-2.5		145.5		+860	+1447	555,978	1,755,508
381	2012		36° 58'	-	3.9	-		-3.9		144.1		+1034	+1726	556,152	1,755,787
TP	2081		36° 54' 13"	-	7.8	89° 56'	+2.4	-5.4		142.6	TP	+1072	+1784	556,190	1,755,845
TP	2081				7.7	270° 04'	+2.4	-5.3			TP				

JK - 555,080 x - 1,753,750
JK Bridge

JK - 555,600 x - 1,754,900
JK 4 Way Enter.

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO	PAGE			
6-18-85		B. Cotamp		K. Greenfield		6834		D.S.		6	34			
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER			
WASHINGTON		HAMILTON - 15		WASH.		SKAGIT					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.	
	988		200 58 04	+22.1	4.5	-		+4.5	147.1	142.6	BS	+722	+675	
	988				+4.4	270 -		+4.4			BS			
382	728		199 10	--	4.8	-		-4.8		142.3		-547	-480	556,365 1,756,040
383	398		" "	--	5.2	-		-5.2		141.9		-299	-263	556,613 1,756,257
JK	250		201 56 22	--	5.0	-		-5.0		142.1	JK	-180	-174	556,732 1,756,346 JK BRIDGE
384	68		199 10	--	5.1	-		-5.1		142.0		-51	-45	556,961 1,756,475
π	0				5.1	-		-5.1		142.0	π	0	0	556,912 1,756,520
385	261		19 -	+22.1	8.6	88 30	+76.8	-1.8		145.3		+197	+172	557,109 1,756,692
386	591		" "	--	5.3	88 30	+115.5	+110.2		157.3		+445	+389	557,357 1,756,909
387	921		" "	--	3.4	88 30	+24.1	+20.7		167.8		+694	+605	557,606 1,757,125
388	1251		19 15	--	9.7	88 30	+32.7	+23.0		170.1		+939	+826	557,851 1,757,346
TP	1323		19 03 28	--	10.8	88 30	+34.6	+23.8			TP	+996	+870	557,908 1,757,390
TP	1323		" "	--	6.8	88 40	+30.8	+24.0	+23.95	171.0	TP			
	2577		222 45 03	+22.1	9.1	-		+9.1	+150.0		BS	+1095	+2333	
	2577		" "		+8.8	270 -		+8.8	+7.0		BS			
389	2309.4		222 51	--	9.7	-		-9.7		170.3		-978	-2092	558,025 1,757,631
390	1980		" "	--	9.1	-		-9.1		170.9		-838	-1794	558,165 1,757,929
391	1650		" "	--	7.6	-		-7.6		172.4		-699	-1495	558,304 1,758,228
392	1320		" "	--	7.2	-		-7.2		172.8		-559	-1196	558,444 1,758,527
393	990		" "	--	6.7	-		-6.7		173.3		-419	-897	558,584 1,758,826

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6-18-85		B. Cotcamp		K. Greenfield		6834		D.S.		466		35			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASHINGTON		Hamilton-15		WASH.		SKagit								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									180.0						
394	660		222° 51'	+22.1	7.3	-	-7.3		172.7			-279	-598	558,724	1,759,125
395	330		-	--	6.6	-	-6.6		173.4			-140	-299	558,863	1,759,424
396	0		0		5.1	-	-5.1		174.9	X		0	0	559,003	1,759,723 IF
397	330		43° 10'	--	4.2	TU	+1.7	-2.5	177.5			+138	+300	559,141	1,760,023
398	660		-	--	6.8	89° 30'	+5.8	-1.0	179.0			+276	+599	559,279	1,760,322
399	990		-	--	9.3	89° 30'	+8.6	-6.7	179.3			+414	+899	559,417	1,760,622
400	1320		43° 10'	+22.1	12.5	89° 30'	+11.5	-1.0	179.0			+552	+1199	559,555	1,760,922
401	1486		42° 45' 03"	--	8.5	89° 40'	+8.6	+0.1	180.1			+632	+1345	559,635	1,761,066
402	1650		43° 10'	--	7.9	89° 40'	+9.6	+1.7	181.7			+690	+1499	559,693	1,761,222
402	1983		43° 39' 09"	--	5.3	89° 40'	+11.5	+6.2	186.2		TP	+814	+1808	559,817	1,761,531 Across Station
402	1983				5.2	270° 20'	+11.5	+6.3			TP				
	1981		242° 55' 45"	+22.1	+5.3	-		+5.3	191.4		BS	+172	+1974		
	1981				+5.0	270° -		+5.0			BS				
403	1650		243° 17'	--	12.4	TU	+8.3	-4.1	187.3			-133	-1645	559,856	1,761,860
404	1320		-	--	6.0	-		-6.0	185.4			-106	-1316	559,883	1,762,189
405	990		-	--	7.1	-		-7.1	184.3			-80	-987	559,909	1,762,518
406	660		-	--	7.4	-		-7.4	184.0			-53	-658	559,936	1,762,847
407	330		-	--	7.3	-		-7.3	184.1			-27	-329	559,962	1,763,176
408	0				5.1	-		-5.1	186.3		X	0	0	559,989	1,763,505
408	165		60° 50' 34"	+22.1	4.2	-		-4.2	187.2			+20	+164	560,009	1,763,669

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
6-18-85		B. Cotcamp		K. Greenfield		6834		D.S.		6		36				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
WASHINGTON		Hamilton - 15'		WASH		SKagit								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
			0	0					191.4							
409	330		63 30	+22.1	5.2	TH	+1.7	-3.5		187.9		+25	+329	560,014	1,763,834	
410	660		-	--	5.1	TH	+3.3	-1.8		189.6		+51	+658	560,040	1,764,163	
411	990		-	--	5.0	TH	+5.0	+0.0		191.4		+76	+987	560,065	1,764,492	
412	1320		-	--	6.4	TH	+6.6	+0.2		191.6		+101	+1316	560,090	1,764,821	
413	1650		63 30	--	7.1	TH	+8.3	+1.2		192.6		+127	+1645	560,116	1,765,150	
414	1980		-	+22.1	4.4	89° 40'	+11.5	+7.1		198.5		+152	+1974	560,141	1,765,479	
415	2310		-	--	7.4	89° 30'	+20.2	+12.8		204.2		+177	+2303	560,166	1,765,808	
416	2639		63 15 24	--	10.8	89° 30'	+23.0	+12.2	} 112.3	203.7	TP	+214	+2630	560203	1,766,135	middle of road
416	2639		-	--	10.5	270 30	+23.0	+12.5								
	1982		243 07 30	+22.1	8.1	89° 20'	-23.1	-15.0	} 188.7		BS	+165	+1975			
	1982		-	--	8.0	270 40	-23.1	-15.1								
417	1651		242 51	--	11.7	89° 20'	+19.2	+7.5		196.2		-145	-1645	560223	1,766,466	
418	1321		-	--	8.9	-	-	-8.9		179.8		-116	-1316	560,252	1,766,794	
419	991		-	--	12.8	BM	-5.0	-17.8		170.9		-87	-987	560,281	1,767,123	
420	661		-	--	8.7	91 -	-11.5	-20.2		168.5		-58	-658	560,310	1,767,452	
421	331		-	--	7.7	91 -	-5.8	-13.5		175.2		-29	-330	560,339	1,767,780	
422	0		-	--	5.1	-	-	-5.1		183.6	π	0	0	560,368	1,768,110	across station
423	334		82 15,	+22.1	4.3	89 -	+5.8	+1.5		190.2		-83	+324	560,285	1,768,434	
424	663		84° 20'	--	5.3	88° 40'	+15.4	+10.1		198.8		-188	+636	560,180	1,768,746	

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6-18-85		B. Cotcamp		K. Greenfield		6834		D.S. KUG		6		37			
AREA		TOP MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASHINGTON		Hamilton - 15'		WASH		SKagit								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
TP	803		84 22 30	+22.1	4.7	88 40	+18.7	+14.0	188.7	202.7	TP	-228	+770	560,140	1,768,880
TP	803				7.0	88 30	+21.0	+14.0			TP				
	854		280 16 01	--	+7.3	91 -	+14.9	+22.2	224.9		BS	-457	+721		
	854				+7.2	289 -	+14.9	+22.2			BS				
425	660		278 40	--	7.8	90 40	-7.7	-15.5		209.4		+338	-567	560,021	1,769,034
426	330		- -	--	6.7	-		-6.7		218.2		+169	-284	559,852	1,769,317
427	0				5.1	-		-5.1		219.8	X	0	0	559,683	1,769,601
428	330		98 40	+22.1	5.1	91 -	-5.8	-10.9		214.0		-169	+284	559,514	1,769,885
429	660		- -	--	9.9	91 -	-11.5	-21.4		203.5		-338	+567	559,345	1,770,168
430	990		- -	--	12.0	91 20	-23.0	-35.0		189.9		-506	+851	559,177	1,770,452
431	1320		- -	--	9.6	91 30	-34.5	-44.1		180.8		-675	+1134	559,008	1,770,735
432	1650		- -	--	6.9	91 10	-33.6	-40.5		184.4		-844	+1418	558,839	1,771,019
TP	1926		97 54 12	--	4.3	90 40	-22.4	-26.7		198.2	TP	-963	+1668	558,720	1,771,269
TP	1926				4.2	269 20	-22.4	-26.6			TP				
	814		281 56 39	+22.1	13.4	92 30	+35.5	+48.5			BS	-455	+674		
	814				12.9	267 30	+35.5	+48.4	246.6		BS				
433	760		281 05	--	11.0	92 30	-33.1	-44.1		202.5		+416	-636	558,681	1,771,307
434	432		282 15	--	8.2	92 -	-15.1	-23.3		223.3		+244	-357	558,509	1,771,586
435	103		273 -	--	5.9	90 30	-0.9	-6.8		239.8		+44	-93	558,309	1,771,850
X	0				5.1	-		-5.1		241.5	X	0	0	558,265	1,771,973

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6-18-85		B. Cotcamp		K. Greenfield		6834		D.S. B.C.		6		38			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASHINGTON		Hamilton-15'		WASH.		SKagit								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
									246.6						
436	229		114° 45'	+22.1	6.9	89° 30'	+2.0	-4.9		241.7		-167	+157	558,098	1,772,100
437	560		110° 50'	--	11.3	90° 40'	-6.5	-17.8		228.8		-381	+410	557,884	1,772,353
TP	706		108° 49' 39"	--	12.4	91° -	-12.3	-24.7		221.9	TP	-462	+533	557,803	1,772,476
TP	706				14.4	90° 50'	-10.3	-24.7			TP				
	398		311° 21' 22"	+22.1	6.1	87° 30'	-17.4	-11.3	210.6		BS	-356	+178		
	398				+4.9	87° 40'	-16.2	-11.3			BS				
438	210		315° 15'	--	6.5	88° -	+7.3	+0.8		211.4		+194	-81	557,641	1,772,573
X	0				5.1	-		-5.1		205.6	X	0	0	557,447	1,772,654
TP	92		96° 03' 45"	--	5.6	91° -	-1.6	-7.2		203.4	TP	-43	+81	557,404	1,772,735
439	126		157° 05'	--	5.1	91° -	-2.2	-7.3		203.3		-126	+2	557,321	1,772,656
440	449		155° 55'	--	5.4	90° 30'	-3.9	-9.3		201.3		-449	+16	556,998	1,772,670
TP	561		151° 15' 50"	--	5.0	90° 30'	-4.9	-9.9		200.7	TP	-557	+65	556,890	1,772,719
TP	561				6.7	90° 20'	-3.3	-10.0			TP				
	1086		301° 16' 16"	+22.1	6.7	89° -	-19.0	-12.3	188.4		BS	-871	+648		
	1086				+3.6	89° 10'	-15.8	-12.2			BS				
441	874		301° -	--	7.4	89° -	+15.3	+7.9		196.3		+699	-525	556,718	1,772,842
442	545		298° 30'	--	10.8	89° -	+9.5	-1.3		187.1		+421	-346	556,440	1,773,021
443	216		294° 20'	--	8.8	89° -	+3.8	-5.0		183.4		+157	-149	556,176	1,773,218
X	0				5.1	-		-5.1		183.3	X	0	0	556,019	1,773,367
444	114		107° -	--	7.1	89° -	+2.0	-5.1		183.3		-72	+88	555,947	1,773,455

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
6-18-85		B. Cotcamp		K. Greenfield		6834		D.S. B.C.		6	39				
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER					
WASHINGTON		Hamilton 15'		WASH.	SKAGIT					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
									188.7						
445	442		101° -	22.1	7.0	TH	+2.2	-4.8		183.6		-241	+370	555,778	1,773,737
TP	716		95° 53' 35"	~	4.7	-		-4.7		183.7	TP	-336	+632	555,643	1,773,999
TP	716				4.6	270° -		-4.6			TP				
	1194		253° 17' 22"	~	6.0	-		+6.0	189.7		BS	-112	+1189		
	1194				12.0	TH	-6.0	+6.0			BS				
446	1143		253° 05'	+22.1	6.2	-		-6.2		183.5		+103	-1138	555,677	1,774,050
447	815		251° 50'	--	5.8	-		-5.8		183.9		+56	-813	555,627	1,774,375
448	485		- - -	--	5.2	-		-5.2		184.5		+33	-484	555,604	1,774,704
449	155		252° 20'	--	5.8	-		-5.8		183.9		+12	-155	555,583	1,775,033
π	0				5.1	-		-5.1		184.6	π	0	0	555,571	1,775,188
450	175		84° 10'	+22.1	5.2	-		-5.2		184.5		-49	+168	555,522	1,775,356
451	504		87° 50'	~	7.0	TH	72.5	-4.5		186.2		-172	+474	555,399	1,775,662
452	831		85° 03' 12"	~	4.0	-		-4.0		185.7	TP	-245	+794	555,326	1,775,982
452	831				3.9	270° -		-3.9			TP				
	3434		249° 40' 55"	+22.1	13.8	90° 46'	+40.0	+53.8			BS	-107	+3432		
	3434				13.5	269° 20'	+40.0	+53.5	239.4		BS				
453	3104		249° 38'	--	15.0	90° 42'	-37.9	-52.9		186.5		+94	-3103	555,313	1,776,311
454	2774		- - -	--	13.3	90° 40'	-32.3	-45.6		193.8		+84	-2773	555,303	1,776,641
455	2444		- - -	--	7.7	90° 40'	-28.4	-36.1		203.3		+74	-2443	555,293	1,776,971
456	2114		- - -	--	5.0	90° 40'	-24.6	-27.6		209.8		+64	-2113	555,283	1,777,301

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO		PAGE							
6-18-85		B. Cotcamp		K. Greenfield		6834		D.S.		6		40							
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER					
WASHINGTON		LAKE SHANNON-15		WASH.		SKagit								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				
									239.4										
IF	1968		249° 53' 58"	+22.1	4.8	90° 40'	-22.9	-27.7		211.7	IF	+69	-1967	555,288	1,777,447			5-555,280 x -1,777,130 KT-Inter.	
457	1785		249° 35'	--	9.3	90° 30'	-15.6	-24.9		214.5		+52	-1784	555,271	1,777,630			HAMILTON-15	
458	1455		-	--	8.1	90° 30'	-12.7	-20.8		218.6		+43	-1454	555,262	1,777,960			LAKE SHANNON-15	
459	1125		-	--	6.7	90° 30'	-9.8	-16.5		222.9		+33	-1125	555,252	1,778,289				
460	795		249° 15'	--	5.3	90° 30'	-6.9	-12.2		227.2		+19	-795	555,238	1,778,619				
461	465		-	--	8.1	-	-	-8.1		231.3		+11	-465	555,230	1,778,949				
462	135		247° 50'	--	5.0	-	-	-5.0		234.4		±0	-135	555,219	1,779,279				
X#	0		-	--	5.1	-	-	-5.1		234.3	#	0	0	555,219	1,779,414				
463	196		62° 05'	+22.1	5.2	-	-	-5.2		234.2		+20	+195	555,239	1,779,609				
464	526		60° 35'	--	6.5	71.0	+2.6	-3.9		235.5		+67	+522	555,286	1,779,936				
465	856		60° 05'	--	10.0	89° -	+14.9	+4.9		244.3		+116	+848	555,335	1,780,262				
466	1186		-	+22.1	6.0	89° -	+20.7	+14.7		254.1		+161	+1175	555,380	1,780,589				
467	1516		-	--	6.3	89° -	+26.5	+20.2		259.6		+206	+1502	555,425	1,780,916				
468	1846		60° 05'	--	9.8	89° -	+32.2	+22.4		261.8		+251	+1829	555,470	1,781,243				
469	2176		-	--	13.2	89° -	+38.0	+24.8		264.2		+296	+2156	555,515	1,781,570				
470	2506		-	--	11.8	89° -	+43.7	+31.9		271.3		+341	+2483	555,560	1,781,897				
IF	2678		59° 50' 42"	+22.1	9.7	89° -	+46.7	+37.0		276.4	IF	+375	+2651	555,594	1,782,065			5-555,585 x -1,782,060 IT 4 way INTER	
471	2836		60° 05'	--	8.0	89° -	+49.5	+41.5		280.9		+386	+2810	555,605	1,782,324				
472	3166		-	--	4.3	89° -	+58.2	+50.9		290.3		+431	+3137	555,650	1,782,551				
473	3496		-	--	5.3	89° -	+61.0	+55.7		296.1		+475	+3464	555,694	1,782,878				

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6-18-85		B. Cotcamp		K. Greenfield		6834		D.S.		BC		41			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASHINGTON		LAKE SHANNON-15		WASH.		SKAGIT								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
									239.4						
TP	3724		59° 39' 23"	+22.1	9.5	89°	+65.0	+55.5	555.9	295.1	TP	+534	+3685	555,753	1,783,099 <i>NE West waves</i>
TP	3724				9.0	271°	+65.0	+56.0			TP				
	557		258° 23' 58"	--	+2.8	89°	-9.7	-6.9	288.2		BS	-101	+548		
	557				+12.6	88°	-19.4	-6.8			BS				
474	452		258° 20'	--	6.0	88° 38'	+10.8	+4.8		293.0		+82	-445	555,734	1,783,202
475	122		258° 30'	--	5.1	88° 40'	+2.8	-2.3		285.9		+22	-120	555,674	1,783,527
TP	0				5.1			-5.1		283.1	TP	0	0	555,652	1,783,647
476	218		109° 05'	+22.1	7.6	92° 10'	-8.2	-15.8		272.4		-144	+164	555,508	1,783,811
477	553		112° 01' 38"	--	3.3	93° 10'	-30.5	-33.8		254.4	TP	-384	+396	555,268	1,784,043 <i>ACROSS station</i>
477	553				5.0	93°	-28.9	-33.9			TP				
	404		324° 07' 09"	--	+0.4	87°	-21.1	-20.7	233.7		BS	-392	+96		
	404				+0.3	273°	-21.1	-20.8			BS				
478	72		329° 05'	+22.1	4.8	87°	+3.8	-1.0		232.7		+71	-11	564,947	1,784,128
TP	0				5.1			-5.1		228.6	TP	0	0	554,876	1,784,139
479	258		160° 30'	--	6.4	93° 10'	-14.3	-20.7		213.0		-258	-12	554,618	1,784,127
TP	394		160° 52' 34"	--	5.2	93° 10'	-21.8	-27.0		206.7	TP	-393	-20	554,483	1,784,119
TP	394				6.3	93°	-20.6	-26.9			TP				
	887		343° 10' 04"	--	+0.3			+0.3	207.0		BS	-883	-81		
	887				+4.8	TM	-4.4	+0.4			BS				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE								
6-18-85		B. Cotcamp		K. Greenfield		6834		D.S. Awa		6	42								
AREA		TOPO MAP	STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER										
WASHINGTON		LAKE SHANNON -15'	WASH.	SKagit					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				
									207.0										
480	694		341° 15'	+22.1	6.7	-	-6.7		200.3			+693	+41	554,293	1,784,039				
481	366		337° 15'	--	8.6	-	-8.6		198.4			+366	-4	553,966	1,784,034				
482	37		332° 30'	--	5.3	-	-5.3		201.7			+37	-3	553,637	1,784,035				
TP	0				5.1	-	-5.1		201.9		TP	0	0	553,600	1,784,038				
483	293		142° 55'	+22.1	5.0	-	-5.0		202.0			-283	+76	553,317	1,784,117				
484	621		138° 20'	--	7.3	-	-7.3		199.7			-585	+208	553,015	1,784,240				
TP	572		137° 14' 12"	--	6.7	-	-6.7		200.3			-535	+202	553,065	1,784,240				
TP	749		136° 08' 01"	--	7.5	-	-7.5		199.5		TP	-696	+278	552,904	1,784,316				
	1047				3.8	BH	-3.7	-7.5			TP								
	1047		313° 36' 27"	+22.1	5.9	-	+5.9		205.4		BS	-954	+431						
	1047				11.2	TH	-5.2	+6.0			BS	+2	+2						
485	847		313° 15'	--	6.5	-	-6.5		198.9			+770	-353	552,722	1,784,396				
486	517		-	--	6.3	-	-6.3		199.1			+470	-216	552,422	1,784,533				
487	189		-	--	6.5	-	-6.5		198.9			+170	-78	552,122	1,784,671				
TP	0				5.1	-	-5.1		200.3		TP	0	0	551,952	1,784,749				
488	152		163° 40'	+22.1	6.1	-	-6.1		199.3			-151	-15	551,801	1,784,734				
489	481		164° 20'	--	5.1	-	-5.1		200.3			-478	-54	551,474	1,784,695				
490	811		165° 15'	--	8.7	TH	+4.1	-4.6	200.8			-804	-104	551,148	1,784,645				
491	1140		164° 20'	--	9.6	JH	+5.7	-3.9	201.5			-1133	-128	550,819	1,784,621				

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6-19-85		B. Cotcamp		K. Greenfield		6834		D.S. B.C.		6		43			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASHINGTON		LAKE SHANNON-15		WASH.		SKAGIT								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
									205.4						
TP	1263		163° 22' 54"	+22.1	2.7	-		-2.7		202.7	TP	-1257	-121	550,697	1,784,670
TP	1263				9.0	74	+6.3	-2.7			TP	+2	+2		
	698		307° 19' 53"	--	5.0	-		+5.0		207.7	BS	-601	+355		
	698				1.5	BH	+3.5	+5.0			BS	+2	+2		
492	498		302° 50'	--	6.2	-		-6.2		201.5		+408	-286	550,506	1,784,701
493	168		295° 45'	--	5.9	-		-5.9		201.8		+125	-113	550,223	1,784,877
π	0				5.1	-		-5.1		202.6	π	0	0	550,098	1,784,987
494	162		105° 50'	+22.1	5.4	-		-5.4		202.3		-100	+128	549,998	1,786,115
495	491		100° 50'	--	5.0	-		-5.0		202.7		-267	+412	549,831	1,785,399
496	821		99° 25'	--	4.7	-		-4.7		203.0		-429	+700	549,669	1,785,667
497	1150		98° 50'	--	4.7	-		-4.7		203.0		-591	+986	549,507	1,785,973
498	1480		98° 05'	--	11.8	TH	+7.4	-4.4		203.3		-744	+1279	549,354	1,786,266
TP	1706		97° 27' 22"	--	5.5	-		-5.5		202.3	TP	-842	+1484	549,258	1,786,473
TP	1706				5.3	270		-5.3			TP	+2	+2		
	972		257° 57' 23"	+22.1	13.0	-		+13.0		215.3	BS	-170	+957		
	972				8.2	BH	+4.9	+13.1			BS	+2	+2		
499	868		257° 25'	--	11.1	-		-11.1		204.2		+144	-856	549,234	1,786,576
500	540		254° 20'	--	10.8	-		-10.8		204.5		+61	-537	549,151	1,786,895
501	210		250° 50'	--	9.2	-		-9.2		206.1		+11	-210	549,101	1,787,222
π	0				5.1	-		+5.1		210.2	π	0	0	549,090	1,787,432

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE					
6-19-85		B. Cotcamp		K. Greenfield		6834		DS		6		44					
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER			
WASHINGTON		LAKE SHANNON-15'		WASH		SKAGIT								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		REMARKS	
														Y	X		
									215.3								
502	120		66° 20'	+22.1	3.0	-		-3.0		212.3		+3	+120	549,093	1,787,552		
503	450		64° -	--	5.0	TH	+2.3	-2.7		212.6		+31	+449	549,121	1,787,881		
504	778		60° 42' 48"	--	3.0	-		-3.0		212.3	TP	+97	+772	549,189	1,788,206		
504	778				6.9	TH	+3.9	-3.0			TP	+2	+2				
	1979		229° 24' 30"	+22.1	9.6	-		+9.6		221.9	BS	+628	+1877				
	1979				9.5	270°		+9.5			BS	+2	+2				
505	1650		229° -	--	13.0	-		-13.0		208.9		-534	-1561	549,285	1,788,524		
506	1320		-	--	11.0	90° 10'	-3.8	-14.8		207.1		-428	-1249	549,391	1,788,836		
507	990		-	--	12.1	90° 10'	-2.9	-15.0		206.9		-321	-937	549,498	1,789,148		
508	660		-	--	8.1	90° 10'	-1.9	-10.0		211.9		-214	-624	549,605	1,789,461		
509	330		-	--	7.1	89° 10'	+4.8	-2.3		219.6		-107	-312	549,712	1,789,773		
510	0		0° -		5.1	-		-5.1		216.8	TP	0	0	549,819	1,790,085		
511	330		49° 10'	+22.1	11.3	90° 30'	-2.9	-14.2		207.7		+106	+313	549,925	1,790,398		
512	660		-	--	6.7	90° 30'	-5.8	-12.5		209.4		+212	+625	550,031	1,790,710		
513	990		-	--	8.7	89° 50'	+2.9	-5.8		216.1		+318	+938	550,137	1,791,023		
514	1320		48° 50'	--	7.7	89° 40'	+7.7	-10.0		221.9		+431	+1248	550,250	1,791,333		
TP	1437		47° 48' 57"	--	3.4	89° 50'	+4.2	+0.8		222.7	TP	+493	+1350	550,314	1,791,437		
TP	1437				0.1	89° 58'	+0.8	+0.7			TP	+2	+2				

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE							
6-19-85		B. Cotcamp		K. Greenfield		6834		D.S. KWA		6		45							
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER					
WASHINGTON		LAKE SHANNON - 75'		WASH.		SKagit								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				
										222.7									
	1942		216 21 22	+22.1	5.1	90 22	+12.4	+17.5	240.2		BS	+1016	+1655						
	1942				5.0	269 38	+12.4	+17.4		BS		+2	+2						
515	1733		215 55	--	5.4	90 30	-15.1	-20.5		219.7		-918	-1470	550.414	1,791,624				
516	1402		215 45	--	7.3	90 50	-20.4	-27.7		212.5		-746	-1187	550.586	1,791,907				
517	1073		- -	--	11.2	90 50	-15.6	-26.8		213.4		-571	-908	550.761	1,792,186				
518	743		215 40	--	12.2	90 50	-10.8	-23.0		217.2		-396	-628	550.936	1,792,466				
519	413		215 -	--	11.4	91 10	-8.4	-19.8		220.4		-224	-347	551.108	1,792,747				
520	86		201 50	--	7.2	91 10	-1.8	-9.0		231.2		-62	-60	551.270	1,793,034				
K	0				5.1	-		-5.1		235.1	K	0	0	551.332	1,793,094				
521	250		47 55	+22.1	5.4	88 -	+8.7	+3.3		243.5		+85	+235	551.417	1,793,329				
522	580		46 10	--	5.4	89 -	+10.1	+4.7		244.9		+215	+539	551.547	1,793,633				
4F	832		45 38 30	--	9.9	89 -	+14.5	+4.6		244.8	4F	+315	+770	551.647	1,793,864				551,590 X - 1,793,850 4 way Inter.
523	910		47 10 1	--	12.9	89 -	+15.9	+3.0		243.2		+322	+851	551.654	1,793,945				
TP	994		45 44 11	--	13.5	89 -	+17.3	+3.8		244.0	TP	+375	+920	551.709	1,794,016				45' 24"
TP	994				13.4	271 -	+17.3	+3.9			TP	+2	+2						
	1141		235 34 45	+22.1	1.1	-		+1.1	245.1		BS	+243	+1115						
	1141				6.9	TM	-5.7	+1.2		BS		+2	+4						
524	893		235 20	--	7.2	TM	+4.5	-2.7		242.4		-194	-872	551.760	1,794,261				
525	563		236 05	--	6.6	TM	+2.8	-3.8		241.3		-115	-551	551.839	1,794,582				
4F	389		237 31 50	--	5.8	TM	+1.9	-3.9		241.2	4F	-70	-383	551.884	1,794,750				

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
6-19-85		B. Cotcamp		K. Greenfield		6834		BC.		6	46				
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
WASHINGTON		LAKE SHANNON-15		WASH.		SKagit					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
									245.1						
526	234		234° 35'	+22.1	5.1	-		-5.1		240.0		-54	-228	551,900	1,794,907
#	13		150° 35'	--	5.2	-		-5.2		239.9	#	-12	+2	551,942	1,795,137 # section post
X	0				5.1	-		-5.1		240.0	X	0	0	551,954	1,795,135
527	96		76° 10'	--	6.3	-		-6.3		238.8		-14	+95	551,940	1,795,230
528	425		67° -	--	7.2	-		-7.2		237.9		+7	+425	551,961	1,795,560
529	755		67° 10'	--	8.2	-		-8.2		236.9		+10	+755	551,964	1,795,890
530	1084		67° 55'	--	9.1	-		-9.1		236.0		±0	+1084	551,954	1,796,219
TP	1405		67° 35' 19"	--	10.3	-		-10.3		234.8	TP	+8	+1405	551,964	1,796,542
TP	1405				10.2	270° -		-10.2			TP	+2	+2		
	1098		252° 42' 06"	+22.1	8.9	89° 20'	-12.8	-3.9	230.9		BS	-92	+1094		41 1/2'
	1098				8.8	270° 40'	-12.8	-4.0			BS	+2	+2		
531	1084		251° 35'	--	8.9	89° 20'	+12.6	+3.7		234.6		+70	-1082	551,944	1,796,556
532	754		252° 05'	--	8.7	89° 20'	+8.8	+0.1		231.0		+55	-752	551,929	1,796,886
533	424		253° 50'	-	5.4	-		-5.4		225.5		+44	-422	551,918	1,797,216
534	98		242° 05'	--	5.4	-		-5.4		225.5		-10	-98	551,864	1,797,540
X	0				5.1	-		-5.1		225.8	X	0	0	551,874	1,797,638
A	141		109° 14' 49"	--	3.7	-		-3.7		227.2	A	-93	+106	551,781	1,797,744
535	253		109° -	-	5.7	TH	+1.3	-4.4		226.5		-166	+191	551,708	1,797,829
TP	525		110° 00' 09"	+21.7	2.9	-		-2.9		228.0	TP	-349	+392	551,527	1,798,032
TP	525				5.5	TH	+2.6	-2.9			TP	+2	+2		

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE						
6-19-85		B. Cotcamp		K. Greenfield		6834		D.S.		6		47						
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER				
WASHINGTON		LAKE SHANNON-15		WASH.		SKAGIT								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			
										228.0								
	2376		308 41 44	+21.7	4.5	TH	-11.9	-7.4	220.4		BS	-2066	+1174					
	2376				4.2	TH ₂₁₀	-11.9	-7.7		-7.13		BS	+2	+2				
536	2315		308 10	--	5.3	TH	+11.6	+6.3		226.7		+2002	-1162	551,465	1,798,046			
537	1982		308 15	--	5.1	TH	+9.9	+4.9		225.2		+1716	-993	551,179	1,798,215			
538	1652		308 20	--	6.3	TH	+8.3	+2.0		222.4		+1431	-825	550,894	1,798,383			
539	1322		308 30	+21.7	6.6	TH	+6.6	+0.0		220.4		+1147	-657	550,610	1,798,551			
540	992		308 40	--	6.2	TH	+5.0	-1.2		219.2		+862	-490	550,325	1,798,718			
541	662		308 55	--	7.2	TH	+3.3	-3.9		216.5		+577	-325	550,040	1,798,883			
	542		308 10	--	4.8	-		-4.8		215.6		+288	-167	549,751	1,799,041			
	543				5.1	-		-5.1		215.3	TP	0	0	549,463	1,799,208			ACROSS STA.
	544		140 55	+21.7	7.0	89 -	+5.9	-1.2		219.2		-316	+99	549,147	1,799,307			
	545		140 10	--	10.9	89 -	+11.5	+6.6		221.0		-627	+205	548,836	1,799,413			
	546		140 25	--	10.1	89 30	+8.6	-1.5		218.9		-942	+304	548,521	1,799,512			
TP	1130		140 13 46	--	10.9	89 40	+6.6	-4.3		216.1	TP	-1074	+351	548,391	1,799,561			
TP	1130				14.2	89 30	+9.9	-4.3			TP	+2	+2					LAKE SHANNON-15
	1375		322 19 32	+21.7	9.3	BH	+6.9	+16.2	2323		BS	-1322	+378					
	1375				9.2	BH ₂₁₀	+6.9	+16.1				BS	+2	+2				
547	1184		321 35	--	11.5	BM	-5.9	-17.4		214.9		+1134	-341	548,205	1,799,600			Finney Peak-7 1/2
548	854		321 10	--	11.8	BM	-4.3	-16.1		216.2		+816	-252	547,887	1,799,689			
649	524		--	--	12.0	-		-12.0		220.3		+501	-154	547,572	1,799,787			

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
6-19-85		B. Cotcamp		K. Greenfield		6834		KAC		6	48				
AREA		TOPO MAP	STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER						
WASHINGTON		LAKE Finney Peak-15	WASH.	SKAGIT					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
									232.3						
550	194		320 10	+21.7	7.4	-	-7.4		224.9			+184	-60	547.255	1,799.881
TP	0				5.1	-	-5.1		227.2	TP	0	0	0	547.011	1,799.941
551	137		136 05	--	4.8	TH	+0.7	-4.1	228.2			-127	+52	546.944	1,799.993
552	467		-	--	6.1	TH	+2.3	-3.8	228.5			-432	+177	546.639	1,800.118
553	797		-	--	7.5	TH	+4.0	-3.5	228.8			-738	+301	546.333	1,800.242
554	1127		136 05	+21.7	9.3	TH	+5.6	-3.7	228.6			-1043	+426	546.028	1,800.367
555	1457		-	--	11.8	TH	+7.3	-4.5	227.8			-1349	+551	545.722	1,800.492
556	1787		-	--	5.0	-	-	-5.0	227.3			-1654	+676	545.417	1,800.617
557	2117		-	--	5.7	-	-	-5.7	226.6			-1960	+800	545.111	1,800.741
TP	2266		135 44 36	--	6.0	-	-	-6.0	226.3			-2093	+869	544.978	1,800.810
558	2447		136 05	--	6.6	-	-	-6.6	225.7			-2265	+925	544.806	1,800.866
TP	2707		135 54 58	--	5.9	-	-	-5.9	226.4	TP		-2503	+1031	544.576	1,800.974
TP	2707				5.8	270	-	-5.8			TP	+2	+2		
	1163		334 10 10	+21.7	+12.8	TH	-5.8	+7.0	233.4		BS	-1160	+84		
	1163			+12.7	TH	-5.8	+6.9				BS	+2	+2		
559	1089		334 01	--	12.1	87 44	+5.1	-7.0	226.4			+1086	-81	544.498	1,800.979
560	763		337 0	--	6.7	-	-	-6.7	226.7			+763	-17	544.175	1,801.043
561	433		336 20	--	5.9	-	-	-5.9	227.5			+433	-15	543.845	1,801.045
562	107		324 50	--	5.1	-	-	-5.1	228.3			+104	-25	543.516	1,801.035
TP	0				5.1	-	-	-5.1	228.3	TP	0	0	0	543.412	1,801.060

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE					
6-19-85		B. Cotcamp		K. Greenfield		6834		D.S. BC		6		49					
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER			
WASH. ngrdw		Finney Peak-7 1/2		WASH.		SKagit								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		REMARKS	
														Y	X		
									233.4								
563	226		161 -	+21.7	5.3	TH	+1.1	-4.2		229.2		-226	-11	543,186	1,801,049		
564	555		155 50	--	6.3	TH	+2.8	-3.5		229.9		-554	+24	542,858	1,801,084		
565	882		153 25	--	5.1	-		-5.1		228.3		-879	+75	542,533	1,801,135		
TP	986		153 01 35	--	7.2	-		-7.2		226.2	TP	-982	+91	542,432	1,801,153		
TP	986				12.1	TH	+4.9	-7.2			TP	+2	+2				
	1326		307 17 19	+21.7	8.8	-		+8.8	235.0		BS	-1136	+683				
	1326				8.7	270 -		+8.7			BS	+2	+2				
566	1100		306 20	--	8.5	BH	-5.5	-14.0		221.0		+933	-582	542,231	1,801,256		
H	1283		307 52 38	--	3.9	BH	-6.4	-10.3		224.7		+1106	-650	542,404	1,801,188		
567	770		306 15	--	11.1	BH	-3.9	-15.0		220.0		+653	-409	541,951	1,801,429		
568	440		--	+21.7	10.9	BH	-2.2	-13.1		221.9		+373	-233	541,671	1,801,605		
569	110		--	--	9.3	-		-9.3		225.7		+93	-58	541,391	1,801,780		
TP	0				5.1	-		-5.1		229.9	TP	0	0	541,298	1,801,838		
570	218		124 25	--	6.0	85 40	+16.5	+10.5		245.5		-181	+122	541,117	1,801,960		
571	544		117 35	--	5.7	85 20	+44.3	+38.6		273.6		-412	+355	540,886	1,802,193		
TP	678		117 27 41	--	8.3	85 40	+51.2	+42.9		277.9	TP	-511	+442	540,789	1,802,282		
TP	678				8.2	274 20	+51.2	+43.0			TP	+2	+2				
	471		305 43 55	--	11.8	-		+11.8	289.7		BS	-397	+254				
	471				9.5	BH	+2.4	+11.9			BS	+2	-1				

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE							
6-19-85		B. Cotcamp		K. Greenfield		6834		DS, B.C.		6		50							
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER					
WASHINGTON		Finney Peak-7E		WASH.		SKagit								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				
									289.7										
572	275		304 30	+21.7	6.8	-		-6.8		282.9		+229	-153	540,623	1,802,382				
π	0				5.1	-		-5.1		284.6	π	0	0	540,394	1,802,535				
573	53		136 10	--	5.9	-		-5.9		283.8		-49	+20	540,345	1,802,555				
TP	302		112 29 18	--	7.4	93	-15.8	-23.2		266.5	TP	-210	+216	540,186	1,802,751				
TP	302				7.3	267	-15.8	-23.1			TP	+2							
	474		317 16 47	+21.7	8.5	87	-24.8	-16.3	250.2		BS	-442	+170						
	474				7.1	87 10	-23.4	-16.3			BS	+2							
574	399		317 55	--	6.8	87 10	+19.7	+12.9		263.1		+374	-139	540,120	1,802,782				
575	69		314 20	--	6.3	87 10	+3.4	-2.9		247.3		+63	-28	539,809	1,802,893				
π	0				5.1	-		-5.1		245.1	π	0	0	539,746	1,802,921				
576	256		126 20	+21.7	8.0	91 10	-5.2	-13.2		237.0		-217	+136	539,529	1,803,057				
577	583		121 20	--	9.0	91 10	-11.9	-20.9		229.3		-466	+351	539,280	1,803,272				
578	912		121 30	--	7.0	90 40	-10.6	-17.6		232.6		-730	+546	539,016	1,803,467				
579	1240		119 40	--	5.4	90 40	-14.4	-19.8		230.4		-969	+774	538,777	1,803,695				
580	1569		119 10	--	9.3	90 20	-9.1	-19.4		231.8		-1217	+990	538,529	1,803,911				
TP	1799		118 42 08	--	13.1	90 08	-4.2	-17.3			TP	-1386	+1147	538,362	1,804,068				
TP	1799				12.8	269 52	-4.2	-17.0	17.23	233.0	TP	+2							
	299		270 41 48	+21.7	4.9	-		+4.9	237.9		BS	-114	+276						
	299				6.4	74	-1.5	+4.9			BS	+2							
TP	323		276 05 45	--	5.3	-		-5.3		232.6		+151	-286	538,401	1,804,058				

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6-19-85		B. Cotcamp		K. Greenfield		6834		D.S.		6		51			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASHINGTON		Finney Peak-7 1/2		WA.		SKagit								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
									237.9						
581	198		267° 35'	+21.7	5.2	TH	+1.0	-4.2		233.7		+65	-187	538.315	1,804,157
X	0				5.1	-		-5.1		232.8	X	0	0	538.250	1,804,344
582	131		71° 35'	--	6.7	-		-6.7		231.2		-8	+131	538.242	1,804,475
583	459		63° 30' 22"	-	11.6	-		-11.6		226.3	TP	+38	+457	538.290	1,804,801 # creek
583	459				9.3	BH	-2.3	-11.6			TP	+2			
	1737		241° 01' 44"	-	8.3	-		+8.3	234.5		BS	+220	+1723		
	1737				+8.1	270 -		+8.1	232.3		BS	+2			
584	1407		240° 52'	+21.7	9.0	-		-9.0		225.5		-182	-1395	538.330	1,805,129
585	1077		-	--	9.0	-		-9.0		225.5		-139	-1068	538.373	1,805,456
586	747		240° 25'	--	8.4	-		-8.4		226.1		-102	-740	538.410	1,805,784
587	417		239° 40'	--	6.8	-		-6.8		227.7		-63	-412	538.449	1,806,112
588	88		235° 20'	--	6.6	-		-6.6		227.9		-20	-86	538.492	1,806,438
X	0				5.1	-		-5.1		229.4	X	0	0	538.512	1,806,524
Y	83		91° 14' 10"	+21.7	5.7	-		-5.7		228.8	Y	-32	+76	538.480	1,806,600
589	252		91° 20'	--	5.9	-		-5.9		228.6		-99	+232	538.413	1,806,750
Z	382		96° 08' 55"	--	4.0	BH	-1.9	-5.9		228.6	Z	-178	+338	538.334	1,806,862
590	582		90° 20'	--	7.0	TH	+2.9	-4.1		230.4		-218	+539	538.294	1,807,063
591	912		89° 55'	--	7.8	TH	+4.6	-3.2		231.3		-336	+848	538.176	1,807,372
592	1242		89° 50'	--	8.5	TH	+6.2	-2.3		232.2		-456	+1155	538.056	1,807,679 Finney Peak - 7 1/2'
593	1571		-	--	8.6	TH	+7.9	-0.7		233.8		-577	+1461	537,935	1,807,985 Rockport - 7 1/2'

y = 538,280 x = 1,804,815
creek

y = 538,180 x = 1,806,600
y - Inter.

MONIZ y = 158
CORR. x = +45
y = 538,310 x = 1,806,870
X Bm EL. 229.0

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6-19-85		B. Cotcamp		K. Greenfield		6834		DS.		6		52			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASHINGTON		Rockport-7 1/2'		WA.		SKagit								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
									234.5						
594	1901		89° 45'	+21.7	8.8	TH	+9.5	+0.7		235.2		-695	+1769	537,817	1,808,293
TP	2013		89° 21' 16"	--	8.7	TH	+10.1	+1.4		235.9	TP	-723	+1879	537,789	1,808,403
TP	2112		89° 54' 18"	--	9.3	TH	+10.6	+1.3		235.8	TP	-778	+1964	537,734	1,808,488
TP	2112				9.2	TH	+10.6	+1.4			TP				
	1741		283° 33' 44"	--	+6.5	91° 30'	+45.6	+52.1		287.9	BS	-1005	+1421		
	1741				+6.2	268° 30'	+45.6	+51.8			BS				
595	1624		283° 25'	+21.7	8.9	91° 30'	-42.5	-51.4		236.5		+934	-1328	537,663	1,808,581
596	1296		282° 25'	--	4.6	92° -	-45.2	-49.8		238.1		+727	-1073	537,456	1,808,836
597	966		281° 55'	--	6.2	92° 30'	-42.1	-48.3		239.6		+535	-804	537,264	1,809,105
598	636		--	--	4.8	93° 30'	-38.8	-43.6		244.3		+352	-530	537,081	1,809,379
599	306		--	--	6.7	93° 30'	-18.7	-25.4		262.5		+169	-255	536,898	1,809,654
K	0				5.1	-		-5.1		282.8	X	0	0	536,729	1,809,909
600	61		177° 45'	+21.7	6.0	86° 30'	+3.7	-2.3		285.6		-58	-20	536,671	1,809,889
601	376		144° -	--	4.0	85° 30'	+29.5	+25.5		313.4		-365	+93	536,364	1,810,002
602	704		141° 26'	--	8.8	85° 30'	+55.2	+46.4		334.3		-673	+205	536,056	1,810,114
TP	904		135° 06' 12"	--	8.3	86° -	+63.1	+54.8		342.7	TP	-829	+355	535,900	1,810,264
TP	904				8.2	274° -	63.1	+54.9			TP				
	232		286° 11' 22"	--	+7.0	-		+7.0		349.7	BS	-142	+183		
	232				+5.8	BH	+1.2	+7.0			BS				

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6-19-85		B. Cotcamp		K. Greenfield		6834		D.S. Hwb		6		53			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASHINGTON		Rockport - 7 1/2'		WA.		SKAGIT								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
									349.7						
603	124		287° 40'	+21.7°	6.5	-		-6.5		343.2		+79	-96	535,837	1,810,351
TP	0				5.1	-		-5.1		344.6	X	0	0	535,758	1,810,447
604	206		108° 17' 51"	-	6.3	BH	-1.0	-7.3		342.4		-132	+158	535,626	1,810,605 *LAST STA. west of River
TP	232				7.0	-		-7.0		342.7	TP				
TP	232				5.8	BH	-1.2	-7.0			TP				
	904				+8.3	86°	-63.1	-54.8	287.9		BS				
	904				+8.2	274°	-63.1	-54.9			BS				
X	0				5.1	-		-5.1		282.8	X				
TP	1741				6.5	91° 30'	-45.6	-52.1			TP				
TP	1741				6.2	268° 30'	-45.6	-51.8	-51.9	236.0	TP				
	2112				+9.3	TH	-10.6	-1.3	234.7		BS				
	2112				+9.2	TH 220°	-10.6	-1.4			BS				
X	0				5.1	-		-5.1		229.5					
D	382				4.0	BH	-1.9	-5.9		228.8	X				X Bm EL. 229.0

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE							
6-27-85		B. Cotcamp		K. GREENFIELD		6834		D.S.		6		54							
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER					
WASHINGTON		Rock Port - 7 1/2'		WASH.		SKAGIT								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				
K. T.	Intersect	ELEVATION	240.0	SCA 00 - y	535.740	x-1.81	7.430			240.0	K.								5-535.740 x - 1817.430 TT - Inter. EL. 2400
	2780		250 11 52	+21.3	11.6	-	+11.6				BS	-73	+2779						
	2780				11.5	270 -	+11.5		251.5		BS								
625	2640		250 00	--	10.7	-	-10.7		240.8			+60	-2639	535.727	1,817,570				
626	2310		- -	--	9.1	-	-9.1		242.4			+52	-2309	535.719	1,817,900				
627	1980		- -	--	9.7	-	-9.7		241.8			+45	-1979	535.712	1,818,230				
628	1650		250 00	+21.3	9.0	-	-9.0		242.5			+37	-1650	535.704	1,818,559				
629	1320		- -	--	9.2	-	-9.2		241.3			+30	-1320	535.697	1,818,889				
630	990		- -	--	8.8	-	-8.8		242.7			+22	-990	535.689	1,819,219				
631	660		- -	--	5.9	-	-5.9		245.6			+15	-660	535.682	1,819,549				
632	330		- -	--	5.2	-	-5.2		246.3			+7	-330	535.674	1,819,879				
633	0				5.1	-	-5.1		246.4		T	0	0	535.667	1,820,209				
634	330		70 05	+21.3	4.8	-	-4.8		246.7			-8	+330	535.659	1,820,539				
dl	247		67° 37 52	--	5.1	-	-5.1		246.4			+5	+247	535.672	1,820,456			dl y - 535.670 x - 1,820,470 dl h - Inter.	
635	660		70 05	--	7.9	TH	+3.3	-4.6	246.9			-16	+660	535.651	1,820,669				
636	990		- -	--	7.8	TH	+5.0	-2.8	248.7			-24	+990	535.643	1,821,199				
637	1320		- -	+21.3	7.8	TH	+6.6	-1.2	250.3			-32	+1320	535.635	1,821,529				
638	1650		70 05	--	7.9	TH	+8.3	-0.4	251.1			-40	+1650	535.627	1,821,859				
639	1980		69 57	--	9.3	TH	+9.9	+0.6	252.1			-43	+1980	535.624	1,822,189				
640	2309		69 10	--	10.2	TH	+11.5	+1.3	252.8			-19	+2309	535.648	1,822,518				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6-27-85		B. Stamp		K. Greenfield		6834		D.S.		6		55			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASHINGTON		Rock Port - 7 1/2'		W.A.		SKAGIT								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
									251.5						
TP	2408		68° 57' 46"	+21.3	6.5	89° 50'	+7.0	+0.5			TP	-11	+2408	535.656	1,822,617
TP	2408				6.8	270° 10'	+7.0	+0.2	+0.3	251.8	TP				
	5177		233° 48' 06"	-- +	2.5	90° 16'	+24.1	+26.6		278.5	BS	+1331	+5003		
	5177				+2.8	269° 44'	+24.1	+26.9	+26.73		BS				
641	4947		233° 34'	--	4.0	90° 14'	-20.1	-24.1		254.4		-1291	-4775	535.696	1,822,845
642	4617		~	--	5.8	90° 14'	-18.8	-24.6		253.9		-1205	-4457	535.782	1,823,163
643	4287		~	--	5.7	90° 14'	-17.4	-23.1		255.4		-1119	-4138	535.868	1,823,492
644	3957		233° 34'	+21.3	7.1	90° 14'	-16.1	-23.2		255.3		-1033	-3820	535.954	1,823,800
645	3627		~	--	8.1	90° 14'	-14.8	-22.9		255.6		-947	-3501	536.040	1,824,119
646	3298		~	--	5.7	90° 18'	-17.3	-23.0		255.5		-861	-3184	536.126	1,824,436
647	2968		~	--	7.2	90° 18'	-15.6	-22.8		255.7		-775	-2865	536.212	1,824,755
TP	2820		233° 47' 27"	+21.3	6.9	90° 20'	-16.4	-23.3		255.2	TP	-726	-2725	536.261	1,824,895
648	2638		233° 34'	--	8.0	90° 20'	-15.4	-23.4		255.1		-689	-2547	536.298	1,825,073
649	2308		~	--	9.2	90° 20'	-13.4	-22.6		255.9		-603	-2228	536.384	1,825,392
650	1978		~	--	10.3	90° 20'	-11.5	-21.8		256.7		-516	-1909	536.471	1,825,711
651	1649		233° 34'	--	10.8	90° 20'	-9.6	-20.4		258.1		-431	-1592	536.556	1,826,028
652	1320		~	--	11.2	90° 20'	-7.7	-18.9		259.6		-345	-1274	536.642	1,826,346
653	990		~	--	11.3	90° 20'	-5.8	-17.1		261.4		-258	-956	536.729	1,826,664
654	660		~	--	9.0	90° 20'	-3.8	-12.8		265.7		-172	-637	536.815	1,826,983
655	330		~	--	7.3	90° 20'	-1.9	-9.2		269.3		-86	-319	536.901	1,827,301

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6-27-85		B. Cotcamp		K. Greenfield		6834		D.S. AWA		6		56			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASHINGTON		Rockport - 7 1/2'		W.A.		SKagit								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
									278.5						
656	0				5.1	-		-5.1		273.4	TP	0	0	536,987	1827,620
657	330		53 36	+21.3	5.9	TH	+1.7	-4.2		274.3		+ 86	+319	537,073	1,827,939
658	660		- -	--	8.8	-		-8.8		269.7		+ 172	+637	537,159	1,828,257
659	990		- -	--	12.8	-		-12.8		265.7		+ 258	+956	537,245	1,828,576
660	1320		- -	--	13.0	-		-13.0		265.5		+ 344	+1274	537,331	1,828,894
661	1650		53 36	+21.3	6.0	BH	-8.3	-14.3		264.2		+ 430	+1593	537,417	1,829,213
662	1980		- -	--	4.0	BH	-9.9	-13.9		264.6		+ 516	+1912	537,503	1,829,532
663	2310		- -	--	12.7	-		-12.7		265.8		+ 602	+2230	537,589	1,829,850
664	2640		- -	--	11.3	-		-11.3		267.2		+ 688	+2549	537,675	1,830,169
665	2970		53 36	--	7.9	90 04	-3.5	-11.4		267.1		+ 774	+2867	537,761	1,830,487
666	3300		- -	+21.3	7.3	90 04	-3.8	-11.1		267.4		+ 860	+3186	537,847	1,830,806
667	3630		- -	--	6.3	90 04	-4.2	-10.5		268.0		+ 946	+3505	537,933	1831,125
668	3960		- -	--	4.2	90 04	-4.6	-8.8		269.7		+ 1032	+3823	538,019	1831,443
669	4290		53 36	--	5.1	90 02	-2.5	-7.6		270.9		+ 1118	+4142	538,105	1831,762
670	4620		- -	+21.3	3.0	90 02	-2.7	-5.7		272.8		+ 1204	+4460	538,191	1,832,080
671	4948		53 28 40	--	0.9	90 02	-2.9	-3.8	-4.0	274.5	TP	+1299	+4774	538,286	1,832,394
671	4948		- -	-	1.2	269 58	-2.9	-4.1			TP				
	1978		232 50 12	--	+8.5	-		+8.5	283.0		BS	+541	+1903		
	1978			--	+8.6	270 -		+8.6			BS				

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6-27-85		B. Cotcamp		K. Greenfield		6834		D.S. HUG		6		57			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASHINGTON		Rockport - 7 1/2'		W.A.		SKagit								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
									283.0						
672	1648		232 15	+21.3	8.0	-	-8.0		275.0			-467	-1581	538,360	1,832,716
673	1318		232 -	--	7.8	-	-7.8		275.2			-379	-1262	538,448	1,833,035
674	989		231 20	--	7.9	-	-7.9		275.1			-295	-944	538,532	1,833,353
675	659		230 15	--	7.4	-	-7.4		275.6			-209	-625	538,618	1,833,672
676	330		228 15	--	7.0	-	-7.0		276.0			-115	-309	538,712	1,833,988
677	0				5.1	-	-5.1		277.9		X	0	0	538,827	1,834,297
678	330		45 -	+21.3	3.0	-	-3.0		280.0			+133	+302	538,960	1,834,599
679	660		43 -	--	7.0	89 30	+5.8	-1.2	281.8			+286	+595	539,113	1,834,892
680	988		42 -	--	5.1	89 30	+8.6	+3.5	286.5			+444	+883	539,271	1,835,180
681	1317		40 40	--	4.2	89 30	+11.5	+7.3	290.3			+619	+1162	539,446	1,835,489
TP	1581		40 19 04	--	2.5	89 30	+13.1	+10.6	293.6		TP	+713	+1321	539,540	1,835,618
TP	1501				6.9	89 20	+17.5	+10.6			TP				
	1795		216 50 22	+21.3	11.3	89 30	+15.7	+27.0	320.6		BS	+947	+1525		
	1795				11.4	269 30	+15.7	+27.1			BS				
682	1649		216 50	--	10.0	90 30	-14.4	-24.4	296.2			-871	-1400	539,616	1,835,743
683	1320		- -	--	8.1	90 30	-11.5	-19.6	301.0			-697	-1121	539,790	1,836,022
684	990		- -	--	5.9	90 30	-8.6	-14.5	306.1			-523	-841	539,964	1,836,302
685	660		- -	--	9.6	-		-9.6	311.0			-348	-561	540,139	1,836,582
686	330		- -	--	7.4	-		-7.4	313.2			-174	-280	540,313	1,836,863
#	14		265 01 27	-	5.5	-		-5.5	315.1		#	+4	-13	540,491	1,837,130 # section line

y-540,500 x-1,837,200

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY			LINE NO.		PAGE		
6-27-85		B. Cotcamp		K. Greenfield		6834		DS1			K06 6		58		
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASHINGTON		Rockport-7 1/2'		W. A.		SKAGIT								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
									320.6						
687	0				5.1	-		-5.1		315.5	X	0	0	540.487	1,837,143
688	330		37°	+21.3	6.3	TH	+1.7	-4.6		316.0		+173	+281	540.660	1,837,424
689	660		-	--	6.5	TH	+3.3	-3.2		317.4		+347	+562	540.834	1,837,705
690	990		-	--	9.3	TH	+5.0	-4.3		316.3		+520	+842	541.007	1,837,985
691	1320		-	--	9.9	TH	+6.6	-3.3		317.3		+694	+1123	541.181	1,838,266
#	1579		36° 37' 02"	--	4.0	TH	+7.9	+3.9		324.5	#	+839	+1338	541,326	1,838,548
692	1650		37°	--	3.8	TH	+8.3	+4.5		325.1		+867	+1404	541,354	1,838,547
693	1980		36° 41' 57"	--	13.5	TH	+9.9	-3.6			TP	+1049	+1679	541,536	1,838,822
693	1980				13.6	TH	+9.9	-3.7		316.9	TP				
	1777		271° 21' 37" 37"	+21.3	3.1	89°	-31.0	-27.9	289.0		BS	+917	+1522		
	1777				3.1	271°	-31.0	-27.9			BS				
694	1447		217° 20'	--	6.4	88° 50'	+29.5	+23.1		312.1		-753	-1236	541,700	1,839,108
695	1117		-	--	5.3	88° 50'	+22.7	+17.4		306.4		-581	-954	541,872	1,839,390
IF	807		218° 23' 14"	--	5.2	88° 50'	+16.4	+11.2		300.2	IF	-407	-697	542,046	1,839,647
696	787		217° 25'	+21.3	5.5	88° 50'	+16.0	+10.5		299.5		-409	-673	542,044	1,839,671
697	458		218°	--	6.6	88° 50'	+9.3	+2.7		291.7		-234	-394	542,219	1,839,950
698	129		210° 45'	--	4.0	88° 50'	+2.6	-1.4		287.6		-79	-102	542,374	1,840,242
X	0				5.1	-		-5.1		283.9	X	0	0	542,453	1,840,344
699	212		64° 30'	+21.3	5.1	89° 50'	+0.6	-4.5		284.5		+16	+211	542,469	1,840,555
700	542		64° 20'	--	6.5	-		-6.5		282.5		+41	+540	542,494	1,840,884

Rock Port - 7 1/2' ↑

ILLABOT Peaks - 7 1/2' ↓

IF - 542,025 x - 1,839,640
IF - INTER

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6-27-85		B. Cotcamp		K. Greenfield		6834		D.S.		6		59			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASHINGTON		ILLABOT Peaks-76'		W.A.		SKagit								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
									289.0						
701	872		64° 40'	+21.3	9.3	-		-9.3		279.7		+61	+870	542,514	1,841,214
TP	1125		63° 08' 28"	--	3.0	BH	-5.6	-8.6		280.4	TP	+109	+1120	542,562	1,841,464
TP	1125				2.9	BH 270-	-5.6	-8.5			TP				
	517		223° 17' 55"	--	+5.7	-		+5.7			BS	+222	+467		
	517				+5.6	270-		+5.6	286.0		BS				
702	444		222° 15'	+21.3	6.0	-		-6.0		280.0		-198	-398	542,584	1,841,533
TI	220		218° 39' 36"	--	6.2	-		-6.2		279.8	TI	-110	-190	542,674	1,841,741
703	118		212° -	--	5.4	-		-5.4		280.6		-71	-95	542,713	1,841,836
TI	0				5.1	-		-5.1		280.9	TI	0	0	542,784	1,841,931
704	212		29° 10'	+21.3	5.1	-		-5.1		280.9		+135	+164	542,919	1,842,095
705	542		-	--	6.7	TH	+2.7	-4.0		282.0		+345	+418	543,129	1,842,349
706	872		-	--	7.6	TH	+4.4	-3.2		282.8		+555	+673	543,339	1,842,604
707	1202		-	--	8.9	TH	+6.0	-2.9		283.1		+765	+927	543,549	1,842,858
TP	1440		29° 26' 32"	--	1.8	-		-1.8		284.2	TP	+911	+1115	543,695	1,843,046
TP	1440				9.0	TH	+7.2	-1.8			TP				
	1225		227° 24' 52"	+21.3	+9.4	BH	+6.1	+15.5	299.7		BS	+445	+1141		
	1225				+4.8	90° 30'	+10.7	+15.5			BS				
708	1132		227° 30'	--	5.6	90° 30'	-9.9	-15.5		284.2		-409	-1055	543,731	1,843,132
709	803		227° 25'	--	7.1	90° 30'	-7.0	-14.1		285.6		-291	-748	543,849	1,843,439
710	475		224° 35'	--	7.7	90° 30'	-4.1	-11.8		287.9		-194	-434	543,946	1,843,753

TI y - 542,670 x - 1,841,730
y - inter.

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6-27-85		B. Cotcamp		K. Greenfield		6834		KWA		6		60			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASHINGTON		ZLLASOT Peaks-7 1/2'		W.A.		SKAGIT								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
									299.7						
711	146		219 -	+21.3	5.2	90 30	-1.3	-6.5		293.2		-72	-127	544,068	1,844,060
π	0				5.1	-		-5.1		294.6	π	0	0	544,140	1,844,187
712	184		29 -	--	6.3	88 40	+4.3	-2.0		297.7		+118	+142	544,258	1,844,329
713	512		23 50	--	6.3	88 40	+11.9	+5.6		305.3		+361	+363	544,501	1,844,559
TP	712		20 49 44	--	5.6	88 40	+16.6	+11.0		310.7	TP	+528	+477	544,668	1,844,664
TP	712				3.5	88 50	+14.5	+11.0			TP				
	1179		189 53 32	+21.3	13.9	TH	-5.9	+8.0			BS	+1009	+611		
	1179				+13.8	TH 270 -	-5.9	+7.9	319.6		BS				
714	1052		189 50	--	10.9	TH	+5.3	-5.6		313.0		-900	-544	544,777	1,844,731
715	722		- -	--	5.8	TH	+3.6	-2.2		316.4		-618	-373	545,059	1,844,902
#	654		190 10	--	5.1	TH	+3.3	-1.8		316.8	#	-558	-341	545,119	1,844,934 # creek
716	392		188 25	--	4.3	89 10	+5.7	+1.4		320.0		-340	-194	545,337	1,845,081
717	65		170 15	--	5.3	89 10	+0.9	-4.2		314.4		-64	-13	545,613	1,845,262
π	0				5.1	-		-5.1		313.5	π	0	0	545,677	1,845,275
718	272		23 25	+21.3	7.8	91 10	-5.5	-13.3		305.3		+193	+191	545,870	1,845,466
719	601		25 20	--	6.6	91 10	-12.2	-18.8		299.8		+413	+437	546,090	1,845,712
TP	689		24 09 23	--	4.9	91 10	-14.0	-18.9		299.7	TP	+483	+491	546,160	1,845,766
TP	689				6.9	91 -	-12.0	-18.9			TP				
	1295		224 67 15	+21.0	5.3	89 30	-11.3	-6.0	293.7		BS	+545	+1175		
	1295				+5.4	270 30	-11.3	-5.9			BS				

SURVEY NOTES-HIGH RESOLUTION DATA

Geosource Inc.

GEO-445

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
6-27-85		B. Stamp		K. Greenfield		6834		KOG		6	61						
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER						
WASH.ington		ILLABOT Peaks-7 1/2		W.A.		SKAGIT					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	NORTH + SOUTH - LAT.	EAST + WEST - DEP.	COORDINATES		REMARKS	
														Y	X		
									293.7								
720	1045		223 50	+21.0	5.9	89 30	+9.1	+3.2		296.9		-444	-946	546.261	1845.995		
721	716		222 50	--	5.8	89 30	+6.3	+6.5		294.2		-316	-643	546.389	1846.298		
722	388		219 10	--	7.3	89 30	+3.4	-3.9		289.8		-193	-337	546.512	1846.604		
723	58		216 -	--	5.4	89 30	+0.5	-4.9		288.8		-32	-49	546.673	1846.892		
TP	0				5.1	-		-5.1		288.6	TP	0	0	546.705	1846.941		
724	272		24 25	+21.0	7.1	89 30	+2.4	-4.7		289.0		+191	+194	546.896	1847.135		
725	600		19 10	--	9.0	89 30	+5.2	-3.8		289.9		+459	+387	547.164	1847.328		
TP	777		18 16 07	--	5.2	-		-5.2		288.5	TP	+602	+492	547.307	1847.433		
TP	777				7.4	89 50	+2.3	-5.1			TP						
	1141		189 48 28	+21.0	9.5	BH	+5.7	+15.2	303.7		BS	+980	+584				
	1141				9.6	BH 220-	+5.7	+15.3			BS						
726	988		189 35	--	10.1	BH	-4.9	-15.0		288.7		-851	-503	547.436	1847.514		
727	659		188 -	--	11.3	BH	-3.3	-14.6		289.1		-576	-319	547.711	1847.698	ILLABOT Peaks-7 1/2 ↑	
728	330		186 -	--	9.6	-		-9.6		294.1		-294	-150	547.993	1847.867	MARBLEmount-15 ↓	
729	0				5.1	-		-5.1		299.6	TP	0	0	548.287	1848.017		
730	330		2 -	+21.0	4.9	-		-4.9		298.8		+304	+129	548.591	1848.146		
731	660		- -	--	7.1	TH	+3.3	-3.8		299.9		+608	+258	548.895	1848.275		
732	990		- -	--	8.1	TH	+5.0	-3.1		300.6		+911	+387	549.198	1848.404		
733	1320		- -	--	10.6	TH	+6.6	-4.0		299.7		+1215	+516	549.502	1848.533		

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6-27-85		B. Cotcamp		K. Greenfield		6834		B. C. W.		6		62			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASHINGTON		MARBLE Mount -15'		W.A.		SKAGIT								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
									303.7						
734	1650		2 07 33	+21.0	3.9	-	-3.9				TP	+1517	+648	549,804	1,848,665
734	1650				4.0	270 -	-4.0		299.7		TP				
	2969		181 45 53	--	+14.6	-	+14.6				BS	+2738	+1149		
	2969				+14.5	270 -	+14.5		314.2		BS				
735	2640		181 51	--	12.7	-	-12.7		301.5			-2433	-1025	550,109	1,848,749
736	2310		--	--	10.3	-	-10.3		303.9			-2129	-897	550,413	1,848,917
737	1980		--	--	8.7	-	-8.7		306.5			-1825	-769	550,717	1,849,045
738	1650		181 51	+21.0	8.1	-	-8.1		306.1			-1521	-641	551,021	1,849,173
739	1320		--	--	7.0	-	-7.0		307.2			-1216	-513	551,326	1,849,301
740	990		--	--	6.4	-	-6.4		307.8			-912	-384	551,630	1,849,430
741	660		--	--	6.0	-	-6.0		308.2			-608	-256	551,934	1,849,558
742	330		--	--	5.9	-	-5.9		308.3			-304	-128	552,238	1,849,686
#	240		184 11 30	+21.0	5.8	-	-5.8		308.4		#	-217	-102	552,325	1,849,712 # Section line
743	0				5.1	-	-5.1		309.1		λ	0	0	552,542	1,849,814
744	330		1 55	--	5.0	TH	+1.7	-3.3	310.9			+304	+129	552,846	1,849,943
745	660		--	--	4.4	TH	+3.3	-1.1	313.1			+608	+257	553,150	1,850,071
746	990		--	--	4.4	TH	+5.0	+0.6	314.8			+912	+386	553,454	1,850,200
747	1320		--	--	4.7	TH	+6.6	+1.9	316.1			+1216	+514	553,758	1,850,328
748	1650		--	--	7.4	TH	+8.3	+0.9	315.1			+1520	+643	554,062	1,850,457
749	1980		--	--	9.8	TH	+9.9	+0.1	314.3			+1824	+771	554,366	1,850,585

552,385 x 1,849,700

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6-27-85		B. Cotcamp		K. Greenfield		6834		B.C.W		6		63			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASHINGTON		MARBLE MOUNT 15 1/2		W.A.		SKAGIT								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
									314.2						
750	2316		2° 20'	+21.0	10.0	89° 50'	+6.7	-3.3		310.9		+2121	+915	554.663	1,850,729
TP	2394		2° 09' 40"	--	11.0	89° 50'	+7.0	-4.0			TP	+2201	+942	554.743	1,850,756
TP	2394				11.1	270° 10'	+7.0	-4.1		310.1	TP				
	630		212° 38' 12"	--	+1.9	74°	-3.2	-1.3	308.8		BS	+374	+507		
	630				+4.3	89° 30'	-5.5	-1.2			BS				
751	376		214° 20'	--	6.7	89° 30'	+3.3	-3.4		305.4		-214	-309	554.903	1,850,954
752	51		195° 30'	--	6.5	89° 30'	+0.4	-6.1		302.7		-41	-30	555.076	1,851,233
X	0				5.1	-		-5.1		303.7	X	0	0	555.117	1,851,263
753	291		59° 05'	+21.0	4.8	89° 30'	+2.5	-2.3		306.5		+50	+287	555.167	1,851,550
754	621		59° 10'	--	5.3	89° 20'	+7.2	+1.9		310.7		+106	+612	555.223	1,851,875
755	951		-	-	5.9	89° 20'	+11.1	+5.2		314.0		+162	+937	555.279	1,852,200
756	1281		59° 05'	--	9.5	88° 50'	+26.1	+16.6		325.4		+221	+1262	555.338	1,852,525
757	1610	1609.3	58° 40'	--	9.7	88° 20'	+46.8	+37.1		345.9		+289	+1583	555.406	1,852,846
758	1939	1937.6	58° 25'	--	6.3	87° 50'	+73.3	+67.0		375.8		+356	+1905	555.473	1,853,168
TP	2092	2090.3	58° 30' 25"	--	7.5	87° 40'	+85.2	+77.7			TP	+381	+2055	555.498	1,853,318
TP	2092				7.6	272° 20'	+85.2	+77.6		386.4	TP				
	412		286° 44' 44"	+21.0	9.9	88° 40'	-9.6	+0.3	386.7		BS	-252	+326		
	412				+11.1	88° 30'	-10.8	+6.3			BS				
759	220		281° -	--	6.3	87° 10'	+10.9	+4.6		391.3		+117	-187	555.363	1,853,457
X	0				5.1	-		-5.1		381.6	X	0	0	555.246	1,853,644

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6-27-85		B. Cotcamp		K. Greenfield		6834		B. Ch...		6		64			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASHINGTON		MARBLE MOUNT 19		D.A.		SKAGIT								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
									386.7						y = 555,275 x - 1,853,600
#	67		288° 51' 42"	+21.0	4.3	87° 10'	+73.3	-1.0		385.7	#	+43	-51	555,289	1,853,593 # section line
760	109		103° 40'	--	6.2	94° 30'	-8.6	-14.8		371.9		-62	+90	555,184	1,853,734
TP	349	347.9	98° 34' 16"	--	6.2	94° 30'	-27.4	-33.6		353.1	TP	-172	+303	555,074	1,853,947
TP	349				5.2	94° 40'	-28.4	-33.6			TP				
	407		238° 21' 16"	+21.0	+0.8	88°	-14.2	-13.4	339.7		BS	+75	+400		
	467				+0.9	272°	-14.2	-13.5			BS				
761	330		238° 20'	--	5.9	87° 20'	+15.3	+9.4		349.1		-61	-324	555,088	1,854,023
762	0				5.1	-		-5.1		334.6	X	0	0	555,149	1,854,347
763	329		48° 40'	--	7.8	91°	-5.7	-13.5		326.2		+114	+309	555,263	1,854,656
#	214		47° 36' 22"	--	8.0	91°	-3.7	-11.7		328.0		+78	+199	555,227	1,854,546
TP	552		48° 34' 51"	--	4.8	90° 50'	-8.0	-12.8		326.9	TP	+193	+517	555,342	1,854,864
TP	552				6.4	90° 40'	-6.4	-12.8			TP				
	185		233° 44' 12"	+21.0	+2.7	-		+2.7	329.6		BS	+49	+178		
	185				+3.6	TH	-0.9	+2.7			BS				
764	80		218° 25'	--	5.8	87° 30'	+3.5	-2.3		327.3		-41	-69	555,350	1,854,923
X	0				5.1	-		-5.1		324.5	X	0	0	555,391	1,855,042
765	247		48° 35'	--	5.5	91°	-4.3	-9.8		319.8		+86	+231	555,477	1,855,273
TP	320		50° 47' 15"	--	9.0	-		-9.0			TP	+100	+304	555,491	1,855,346
TP	320				3.5	91°	-5.6	-9.1		320.5	TP				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6-27-85		B. Cotcamp		K. Greenfield		6834		B.C.W.		6		65			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Washington		MARBLE Mount -15'		W.A.		SKagit								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
									320.5						
	566		310 05 02	+21.0	2.3	-		+2.3	322.8		BS	-495	+274		
	566				+5.1	TH	-2.8	+2.3		BS					
766	287		304 45	"	4.6	TH	+1.4	-3.2		319.6		+237	-162	555,233	1,855,458
	0				5.1	-		-5.1		317.7	X	0	0	554,996	1,855,620
767	34		95 30	--	4.9	-		-4.9		317.9		-15	+30	554,981	1,855,650
768	364		94 10	--	5.6	-		-5.6		317.2		-155	+329	554,891	1,855,949
769	693		92 40	--	5.4	TH	+3.5	-1.9		320.9		-278	+635	554,718	1,856,255
770	1023		92 15	+21.0	11.0	87	-	+17.9	+6.9	329.7		-404	+940	554,592	1,856,560
771	1353		92 10	--	4.7	89	-	+23.6	+18.9	341.7		-532	+1244	554,464	1,856,864
772	1683	1682.5	91 50	~	6.3	88 40		+39.2	+32.9	355.7		-653	+1551	554,343	1,857,171
TP	1777	1776.5	91 31 43	~	4.7	88 40		+41.3	+36.6	359.3	TP	-681	+1641	554,315	1,857,261
TP	1777				4.8	88 20		+41.3	+36.5		TP				
	457		245 31 03	+21.0	3.3	92	-	+15.9	+19.2		BS	+28	+456		
	457				+3.2	268	-	+15.9	+19.1	378.4	BS				
773	224		239 -	~	6.3	91	-	-3.9	-10.2	368.2		-39	-221	554,304	1,857,496
	0				5.1	-		-5.1		373.3	X	0	0	554,343	1,857,717
774	106		52 -	~	4.4	89	-	+1.9	-2.5	375.9		+31	+101	554,374	1,857,818
775	436		-	~	3.8	89	-	+7.6	+3.8	382.2		+127	+417	554,476	1,858,134
776	766		-	~	7.8	89	-	+13.4	+5.6	384.0		+224	+733	554,567	1,858,450

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6-27-85		B. Cotcamp		K. Greenfield		6834		B.C.W.		6		66			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASHINGTON		MARBLE Mount - 15'		W.A.		SKAGIT								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
									378.4						
TP	993		51 49 47	+21.0	13.9	89° 20'	+11.6	-2.3			TP	+293	+949	554,636	1,858,666
TP	993				14.0	270° 40'	+11.6	-2.4		376.0	TP				
	460	459.4	206 05 14	--	+5.4	87° 10'	-22.7	-17.3	358.7		BS	+313	+336		
	460				+4.1	87° 20'	-21.4	-17.3			BS				
777	360		202 40	~	5.7	87° 10'	+17.8	+12.1		370.8		-260	-249	554,689	1,858,753
778	34		194 40	--	5.1	87° 10'	+1.7	-3.4		355.3		-28	-20	554,921	1,858,982
X	0				5.1	-		-5.1		353.6	X	0	0	554,949	1,859,002
779	296		359 45	+21.0	8.3	91° 40'	-8.6	-16.9		341.8		+277	+105	555,226	1,859,107
780	626		- -	--	8.0	91° 40'	-18.2	-26.2		332.5		+585	+222	555,534	1,859,224
781	956		- -	--	10.5	91° 10'	-19.5	-30.0		328.7		+894	+339	555,843	1,859,341
782	1286		- -	--	4.0	91° 10'	-26.2	-30.2		328.5		+1203	+456	556,152	1,859,458
TP	1556		358 42 35	~	7.6	90° 50'	-22.6	-30.2			TP	+1465	+525	556,414	1,859,527
TP	1556				7.7	269° 10'	-22.6	-30.3		328.4	TP				
	618		154 37 23	+21.0	5.5	-		+5.5	333.9		BS	+616	-47		
	618				+8.6	TM	-3.1	+5.5			BS				
783	559		154 05	--	4.8	-		-4.8		329.1		-557	+48	556,473	1,859,528
784	232		146 50	--	5.0	-		-5.0		328.9		-227	+49	556,803	1,859,529
X	0				5.1	-		-5.1		328.8	X	0	0	557,030	1,859,480
785	98		318 50	~	4.7	TM	+0.5	-4.2		329.7		+92	-34	557,122	1,859,446
786	424		316 20	~	9.1	88° -	+14.8	+5.7		339.6		+391	-163	557,421	1,859,317

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6-27-85		B. Cotcamp		K. Greenfield		6834		B.C.W.		6		67			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASHINGTON		MARBLEMOUNT-15'		W.A.		SKAGIT								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
									333.9						
787	758		316° -	+21.0	11.1	89° 10'	+11.0	-0.1		333.8		+698	-296	557.728	1,859,184
TP	824		315° 05' 55"	--	13.1	89° 10'	+12.0	-1.1			TP	+753	-334	557.783	1,859,146
TP	824				13.2	270° 50'	+12.0	-1.2		332.7	TP				
	651		231° 48' 57"	--	14.0	89° 20'	-7.6	+6.4	339.1		BS	+192	+622		
	651				12.1	89° 30'	-5.7	+6.4			BS				
788	329		227° 05'	+21.0	5.1	89° 30'	+2.9	-2.2		336.9		-123	-305	557.852	1,859,463
789	0				5.1	-	-	-5.1		334.0	T	0	0	557.975	1,859,768
790	330		33° 20'	--	5.5	88° 50'	+6.7	+1.2		340.3		+192	+268	558.167	1,860,036
791	659		31° 25'	--	8.9	88° 50'	+13.4	+4.5		343.6		+402	+522	558.377	1,860,290
792	989		30° 46'	--	7.8	89° 20'	+11.5	+3.7		342.8		+613	+776	558.588	1,860,544
793	1319		30° 30'	--	10.3	89° 20'	+15.3	+5.0		344.1		+821	+1032	558.796	1,860,900
TP	1468		29° 50' 58"	+21.0	8.9	89° 30'	+12.8	+3.9			TP	+927	+1138	558.902	1,860,906
TP	1468				9.0	270° 30'	+12.8	+3.8		342.9	TP				
	520		229° 54' 04"	--	7.9	-	-	+7.9	350.4		BS	+170	+491		
	520				10.5	TU	-2.6	+7.9			BS				
IF	379		231° 36' 38"	--	6.4	-	-	-6.4		344.4	IF	-113	-362	558.959	1,861,035
794	334		230° 50'	--	6.8	-	-	-6.8		344.0		-104	-317	558.968	1,861,080
795	0				5.1	-	-	-5.1		345.7	T	0	0	559.072	1,861,377
796	333		73° -	+21.0	6.9	-	-	-6.9		343.9		-23	+332	559.049	1,861,729

557.785 x - 1,859,090
T-Inter.

558.970 x - 1,861,035
IF T-Inter. EL. 344.0

ACROSS STA.

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6-28-85		B. Cotcamp		K. Greenfield		6834		B. Ch...		6		68			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Washington		MARBLE Mount -15		W. A.		SKagit								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
									350.8						
797	663		73° -	+21.0	7.7	-		-7.7		343.1		-46	+661	559,026	1,862,058
798	993		-	--	8.4	-		-8.4		342.4		-69	+991	559,003	1,862,388
TP	1304		72° 17' 32"	--	6.8	-		-6.8		344.0	TP	-75	+1302	558,997	1,862,699
TP	1304				13.3	TH	+6.5	-6.8			TP				
	684	683.4	270° 58' 11"	+21.0	8.5	92° 30'	+29.8	+38.3	382.3		BS	-256	+634		
	684				+10.5	92° 20'	+27.8	+38.3			BS				
799	660		270° -	--	12.9	92° 16'	-24.9	-37.8		344.5		+237	-616	558,978	1,862,717
800	330		271° 40'	-	5.0	93° 10'	-18.2	-23.2		359.1		+127	-305	558,868	1,863,028
801	0				5.1	-		-5.1		377.2	π	0	0	558,741	1,863,333
x 802	328		78° -	+21.0	4.7	87° 40'	+13.3	+8.6		390.9		-51	+324	558,690	1,863,657
803	656		75° 35'	--	5.0	87° 30'	+28.6	+23.6		405.9		-75	+652	558,666	1,863,945
TP	705	704.3	75° 30' 42"	--	2.9	87° 30'	+30.7	+27.8		410.1	TP	-80	+700	558,661	1,864,033
TP	705				5.0	87° 20'	+32.8	+27.8			TP				
	746	745.3	274° 23' 28"	+21.0	11.0	92° 30'	+32.5	+43.5	453.6		BS	-320	+673		
	746				+8.8	92° 40'	+34.7	+43.5			BS		-1		
-H-	422		274° 17' 58"	--	6.5	92° 20'	-17.2	-23.7		429.9	-H-	+180	-381	558,521	1,864,324
804	464		273° 20'	--	6.5	92° 30'	-20.2	-26.7		426.9		+191	-423	558,532	1,864,282
805	136		265° 45'	--	6.5	90° 20'	-0.8	-7.3		446.3		+39	-130	558,380	1,864,575
π	0				5.1	-		-5.1		448.5	π	0	0	558,341	1,864,705
806	196		100° 30'	--	5.8	89° 20'	+2.3	-3.5		450.1		-102	+167	558,239	1,864,872

3-558,570 x -1,864,315 section line

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6-28-85		B. Cstamp		K. Greenfield		6834		B.C.		6		69			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASHINGTON		MARBLEmount -F		W.A.		SKagit								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
									453.6						
TP	506		101 26 44	+21.0	4.9	-		-4.9	448.7		TP	-271	+427	558,070	1,865,131
TP	506				7.4	TH	+2.5	-4.9		TP					
	622		298 13 21	~ +	3.3	-		+3.3	452.0		BS	-471	+406		
	622				6.4	TH	-3.1	+3.3		BS					
807	601		298 05	--	3.8	-		-3.8	448.2			+454	-394	558,053	1,865,142
808	273		296 50	~	5.8	-		-5.8	446.2			+202	-183	557,801	1,865,353
X	0				5.1	-		-5.1	446.9		X	0	0	557,579	1,865,536
809	57		132 10	+21.0	4.7	-		-4.7	447.3			-51	+26	557,548	1,865,562
810	384		113 10	--	4.0	-		-4.0	448.0			-268	+275	557,331	1,865,811
#	387		111 10 56	--	3.6	-		-3.6	444.4		#	-260	+287	557,339	1,865,823
811	713		112 50	--	4.5	-		-4.5	447.5			-494	+514	557,105	1,866,050
TP	915		112 32 22	~	4.8	-		-4.8	447.2		TP	-630	+663	556,969	1,866,198
TP	915				9.4	TH	+4.6	-4.8		TP					
	557		281 58 41	+21.0	6.4	-		+6.4	453.6		BS	-303	+467		
	557				9.2	TH	-2.8	+6.4		BS					
812	439		28 55	--	6.3	-		-6.3	447.3			+232	-373	556,898	1,866,291
813	110		284 20	~	6.1	-		-6.1	447.5			+64	-90	556,730	1,866,574
X	0				5.1	-		-5.1	448.5		X	0	0	556,666	1,866,664
814	220		119 25	--	5.0	-		-5.0	448.6			-170	+140	556,496	1,866,804

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
6-28-85		B. Cotamp		K. Greenfield		6834		B. C. W.		6		70				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
WASHINGTON		MARBLE MOUNT-15		W.A.		SKAGIT								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
									453.6							
TP	478		117 17 41	+21.0	3.4	-		-3.4		450.2	TP	-357	+318	556,309	1,866,991	?
TP	478				5.8	TH	+2.4	-3.4			TP		-1			
	722		258 34 04	--	+4.0	TH	-3.6	+0.4	450.6		BS	-120	+712			
	722				+4.6	87 40	-4.2	+0.4			BS		-1			
815	660		256 30	--	6.0	89 30	+5.8	-0.2		450.4		+86	-654	556,275	1,867,038	
816	330		257 20	--	6.2	89 10	+4.8	-1.4		449.2		+48	-327	556,237	1,867,365	
817	0				5.1	-		-5.1		445.5	π	0	0	556,189	1,867,692	
818	330		86 10	+21.0	5.2	89 -	+5.8	+0.6		451.2		-97	+315	556,092	1,868,007	
819	657		81 30	--	4.8	88 50	+13.4	+8.6		459.2		-142	+641	556,047	1,868,333	
TP	679		80 40 57	--	4.2	88 50	+13.8	+9.6		460.2	TP	-137	+665	556,052	1,868,356	
TP	679				4.2	271 10	+13.8	+9.6			TP		-1			
	446		254 07 11	+21.0	12.7	84	+2.2	+14.9	475.1		BS	-40	+444			
	446				+7.1	91 -	+7.9	+14.9			BS		-1			
820	140		256 50	--	5.5	91 30	-3.7	-9.2		465.9		+19	-139	556,031	1,868,660	
π	0				5.1	-		-5.1		470.0	π	0	0	556,012	1,868,799	
821	194		96 25	--	6.2	88 30	+5.1	-1.1		474.0		-89	+172	555,923	1,868,971	
822	522		93 52 33	-	4.8	89 10	+7.6	+2.8		477.9	TP	-220	+474	555,792	1,869,272	
822	522				6.3	89 -	+9.1	+2.8			TP		-1			
	382		289 59 52	--	3.9	92 -	+13.3	+17.2	495.1		BS	-250	+288			
	382				+5.0	91 50	+12.2	+17.2			BS		-1			

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6-28-85		B. Cotcamp		K. Greenfield		6834		B.C.A.		6		71			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASHINGTON		MARBLEMOUNT-15'		W.A.		SKAGIT								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
									495.1						
823	62		262° 40'	+21.0	4.9	92° 10'	-2.3	-7.2		487.9		+15	-60	555,557	1,869,499
-1+	30		262° 37' 10"	--	4.6	92° 10'	-1.1	-5.7		449.4	#	+7	-29	555,549	1,869,530
π	0				5.1	-		-5.1		490.0	π	0	0	555,542	1,869,559
824	269		97° 30'	--	5.6	86° 40'	+15.6	+10.0		505.1		-128	+236	555,414	1,869,795
825	598	597.4	95° 34' 27"	--	6.2	87° 30'	+26.1	+19.9		515.0	TP	-267	+534	555,275	1,870,092
825	598				7.9	87° 20'	+27.8	+19.9			TP		-1		
	784		300° 11' 24"	+21.0	4.9	92° 30'	+20.5	+25.4	540.4		BS	-611	+491		91° 30' B.G.C.
	784				2.6	92° 40'	+22.8	+25.4			BS		-1		91° 40' B.G.C.
826	454		299° 10'	--	6.0	91° 40'	-13.2	-19.2		521.2		+349	-291	555,013	1,870,291
827	128		291° 40'	--	5.2	91° 40'	-3.7	-8.9		531.5		+87	-94	554,751	1,870,488
π	0				5.1	-		-5.1		535.3	π	0	0	554,664	1,870,582
828	203		95° 50'	+21.0	5.5	87° 40'	+9.3	+2.8		543.2		-92	+181	554,572	1,870,763
829	529		87° 34' 14"	--	7.2	87° 40'	+21.5	+14.3		554.7	TP	-168	+501	554,496	1,870,882
829	529				5.7	87° 50'	+20.0	+14.3			TP		-1		
	657		254° 58' 45"	-	11.0	91°	+11.5	+22.5	577.2		BS	-68	+653		
	657				7.1	91° 20'	+15.3	+22.4			BS		-1		
830	328		256° 30'	--	6.3	90° 50'	-4.8	-11.1		566.1		+43	-325	554,471	1,871,409
831	0				5.1	-		-5.1		572.1	π	0	0	554,428	1,871,734
832	328		60° 35'	--	6.0	89° 10'	+4.8	-1.2		576.0		+48	+324	554,476	1,872,058
833	657		61° 30'	-	5.2	89° 10'	+9.6	+4.4		581.6		+86	+651	554,514	1,872,385

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
6-28-85		B. Cotcamp		K. Greenfield		6834		B.C.W.		6		72				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
WASH.ington		MARBLEmount-15		W.A.		SKAGit								D. 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
									577.2							
834	984		60 17 58	+21.0	3.4	89 10	+14.3	+10.9	606.3		TP	+149	+973	554.577	1,872,706	
834	984				6.2	89 -	+17.2	+11.0			TP		-1			
	890		223 47 52	-	+2.6	91 -	+15.5	+18.1			BS	+379	+805			
	890				+5.1	90 50	+12.9	+18.0			BS		-1			
835	561		222 05	-	5.7	91 -	-9.8	-15.5		590.8		-254	-500	554.702	1,873,010	
836	232		217 40	-	5.9	91 30	-6.1	-12.0		594.3		-121	-198	554.835	1,873,312	
X	0				5.1	-		-5.1		601.2	X	0	0	554.956	1,873,510	
837	95		38 15	+21.0	5.3	88 10	+3.0	-2.3		604.0		+49	+82	555.005	1,873,592	
838	424		39 35	-	5.3	88 30	+11.1	+5.8		612.1		+208	+369	555.164	1,873,879	
TP	581		37 49 58	-	2.0	88 30	+15.2	+13.2	619.5		TP	+301	+497	555.255	1,874,006	
TP	581				3.7	88 20	+16.9	+13.2			TP	-2	-1			
	592		190 38 18	+21.0	+11.0	91 20	+13.8	+24.4	644.3		BS	+504	+310			
	592				+9.3	91 30	+15.5	+24.4			BS	-3	-1			
839	427		190 10	-	5.7	91 20	-9.9	-15.6		628.7		-365	-221	555.391	1,874,094	
840	97		192 -	-	5.8	90 50	-1.4	-7.2		637.1		-81	-53	555.675	1,874,262	
X	0				5.1	-		-5.1		639.2	X	0	0	555.756	1,874,315	
841	233		23 10	+21.0	6.4	88 30	+6.1	-0.3		644.0		+167	+162	555.923	1,874,477	
842	562		25 40	-	6.5	88 -	+19.6	+13.1		657.4		+386	+409	556.142	1,874,724	
843	892		24 30	-	5.2	88 06	+29.6	+24.4		668.7		+625	+636	556.381	1,874,951	

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6-28-85		B. Camp		K. Greenfield		6834		B. Cl...		6		73			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Washington		MARBEMOUNT -15'		W.A.		SKagit								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
									644.3						
TP	1010	1009.5	23 50 38	+21.0	5.1	88 10	+32.3	+27.2	}	671.5	TP	+716	+712	556.469	1,875,026
TP	1010				8.0	88 -	+35.2	+27.2		TP			-3	-1	
	441		217 50 34	-- +	5.2	91 -	+7.7	+12.9	}	684.4	BS	+228	+377		
	441				+ 3.9	91 10	+9.0	+12.9		BS			-3	-1	
844	227		219 -	--	5.4	91 -	-4.0	-9.4		675.0		-114	-197	556.580	1,875,205
K	0				5.1	-		-5.1		679.3	K	0	0	556.694	1,875,402
845	103		57 50	+21.0	5.9	88 -	+3.6	-2.3		682.1		+20	+101	556.714	1,875,503 water line *
846	431		62 15	--	5.8	88 10	+13.8	+8.0		692.4		+51	+428	556.745	1,875,830
TP	549		59 05 03	--	7.3	88 10	+17.6	+10.3	}	694.7	TP	+94	+541	556.785	1,875,942
TP	549				5.7	88 26	+16.0	+10.3		TP			-3	-1	
	823	822.6	214 19 55	+21.0 +	2.3	91 50	+26.3	+28.6	}	723.3	BS	+468	+677		
	823				+ 4.7	91 40	+23.9	+28.6		BS			-3	-1	
847	615		214 40	-	6.3	91 50	-19.7	-26.0		697.3		-347	-508	556.903	1,876,110
#	534		215 51 52	--	5.8	92 -	-18.6	-24.4		698.9	#	-292	-447	556.958	1,876,171 # creek crossing
848	286		211 10	-	6.5	92 -	-10.0	-16.5		706.8		-175	-226	557.075	1,876,392
-#	155		211 53 33	-	6.2	92 -	-5.4	-11.6		711.7		-93	-124	557.157	1,876,494
K	0				5.1	-		-5.1		718.2	K	0	0	557.250	1,876,618
849	42		13 20	+21.0	5.7	88 10	+1.3	-4.4		718.9		+35	+24	557.285	1,876,642
850	372		11 -	--	6.2	88 10	+11.9	+5.7		729.0		+315	+197	557.565	1,876,815
851	702		- -	-	6.3	88 10	+22.4	+16.1		739.4		+595	+372	557.845	1,876,990

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		SHEET NO.		PAGE			
6-28-85		B. Cotcamp		K. Greenfield		6834		B. Cotcamp		6		74			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASH.ington		MARBLEmount -15'		W.A.		SKagit								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
									723.3						
852	1032		11 15	+21.0	5.0	88°10'	+33.6	+28.0		751.3		+873	+551	558,123	1,877,169
#1	1064		11°03'21"	--	4.5	88°10'	+34.0	+29.5		752.8	#1	+901	+564	558,151	1,877,182
TP	1123	1122.4	11 20 32	--	5.0	88°10'	+35.9	+30.9		754.2	TP	+948	+600	558,195	1,877,217
TP	1123				8.3	88°-	+39.2	+30.9			TP	-3	-1		
	811		212 52 51	+21.0	8.8	91°-	+14.2	+23.0		777.2	BS	+478	+655		
	811				8.7	269°-	+14.2	+22.9			BS	-3	-1		
853	568		212 25	--	5.9	91°20'	-13.2	-19.1		758.1		-339	-456	558,331	1,877,415
854	239		210 10	--	4.7	91°20'	-5.6	-10.3		766.9		-156	-186	558,520	1,877,685
π	0				5.1	-		-5.1		772.1	π	0	0	558,670	1,877,871
855	89		36 20	+21.0	6.0	-		-6.0		771.2		+48	+75	558,718	1,877,946
856	414		37 55	--	3.2	TH	+2.1	-1.1		776.1		+214	+355	558,884	1,878,226
TP	334		37 42 12	--	4.9	-		-4.9		772.3	TP	+174	+285	558,841	1,878,155
TP	334				6.6	TH	+1.7	-4.9			TP	-3	-1		
	369		197 16 21	+21.0	8.6	91°-	+6.4	+15.0			BS	+290	+229		
	369				5.4	91°30'	+9.7	+15.1		787.4	BS	-3	-1		
85 π	0				5.1	-		-5.1		782.3	π	0	0	559,128	1,878,383
857	42		62 20	--	5.7	89°30'	+0.4	-5.3		782.1		+5	+42	559,133	1,878,425
#	48		48 41 46	--	5.0	89°30'	+0.4	-4.6		782.8	#	+17	+45	559,145	1,878,428 # 3-559,200 x -1,878,400 creek
858	369		46°10'	--	6.2	88°20'	+10.7	+4.5		791.9		+143	+340	559,271	1,878,723

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6-28-85		B. Cotcamp		K. Greenfield		6834		B. C. W.		6		75			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASHINGTON		MARBLE Mount-15		W.A.		SKAGIT								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
									747.4						
TP	560		47° 23' 58"	+21.4	1.4	88° 20'	+16.3	+14.9		802.3	TP	+202	+522	559,327	1,878,904
TP	560				3.0	88° 10'	+17.9	+14.9			TP	-3	-1		
	1000	998.6	255° 09' 12"	--	11.1	93° -	+52.3	+63.4		865.7	BS	-114	+992		
	1000				8.1	93° 10'	+55.2	+63.3			BS	-3	-1		
859	857	855.4	254° 40'	+21.4	6.8	93° 20'	-49.8	-56.6		809.1		+90	-851	559,300	1,879,044
860	527	526.1	254° 10'	--	6.2	93° 20'	-30.6	-36.8		828.9		+51	-524	559,261	1,879,371
861	198	197.7	251° -	--	5.7	93° 20'	-11.5	-17.2		848.5		+8	-198	559,218	1,879,697
TP	0				5.1	-		-5.1		860.6	TP	0	0	559,210	1,879,895
862	131		69° 50'	+21.4	4.7	87° -	+6.9	+2.2		867.9		-3	+131	559,207	1,880,26
863	460	459.4	65° 25'	--	3.2	87° -	+24.1	+20.9		886.6		+26	+459	559,234	1,880,357
864	790	788.8	65° 30'	--	3.8	86° 50'	+43.6	+39.8		905.5		+43	+788	559,253	1,880,683
865	1120	1118.1	65° 45'	--	6.0	86° 40'	+65.1	+59.1		924.8		+56	+1117	559,266	1,881,012
TP	1206	1204.0	64° 47' 31"	--	6.1	86° 40'	+70.1	+64.0		929.7	TP	+80	+1201	559,287	1,881,095
TP	1206				6.1	273° 20'	+70.1	+64.0			TP	-3	-1		
	738	736.8	233° 44' 45"	+21.4	5.9	93° 20'	+42.9	+48.8		978.5	BS	+189	+712		46 10
	738				5.9	266° 40'	+42.9	+48.8			BS	-3	-1		
866	498	497.2	233° 25'	--	5.8	93° 20'	-29.0	-34.8		943.7		-130	-480	559,343	1,881,326
867	169		236° 30'	--	6.2	93° 20'	-9.8	-16.0		962.5		-35	-165	559,438	1,881,641
TP	0				5.1	-		-5.1		973.4	TP	0	0	559,473	1,881,806
868	161		60° 35'	--	5.4	86° 20'	+10.3	+4.9		983.4		+22	+159	559,495	1,881,965

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE						
6-28-85		B. Cotcamp		K. Greenfield		6834		B. Clark		6		76						
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER				
WASHINGTON		MARBLEMOUNT-15'		W.A.		SKAGIT								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			
#	242		58° 34' 14"	+21.4	5.4	86° 20'	+15.5	+10.1	978.5	988.6	#	+42	+238	559,515	1,882,044	#		559,510 x -1,882,090 Creek
869	491	490.0	61° 45'	--	6.5	86° 20'	+31.4	+24.9		1,003.4		+58	+487	559,531	1,882,297			
TP 870	728	726.6	59° 08' 15"	--	6.6	86° 30'	+44.4	+37.8		1,016.3	TP	+119	+717	559,589	1,882,522			
TP 870	728				4.5	86° 40'	+42.3	+37.8			TP	-3	-1					
	963	961.7	228° 50' 41"	+21.4	+11.8	93° -	+50.4	+62.2	1,078.5		BS	+325	+905					
	963				+11.8	267° -	+50.4	+62.2			BS	-3	-1					
870	874	872.5	228° 15'	--	6.1	93° 20'	-50.8	-56.9		1,021.6		-303	-818	559,608	1,882,608			
871	544	543.1	229° -	--	5.9	93° 20'	-31.6	-37.5		1,041.0		-182	-512	559,729	1,882,914			
872	215	214.6	230° 30'	--	5.8	93° 20'	-12.5	-18.3		1,060.2		-67	-204	559,844	1,883,222			
X	0				5.1	-	-	-5.1		1,073.4	X	0	0	559,911	1,883,426			
873	120		73° 55'	+21.4	4.9	87° 20'	+5.6	+0.7		1,079.2		-11	+119	559,900	1,883,545			
874	450	449.2	72° 30'	--	6.0	86° 40'	+26.2	+20.2		1,098.7		-31	+448	559,880	1,883,874			
875	779	777.7	74° 10'	--	4.3	86° 40'	+45.3	+41.0		1,119.5		-75	+774	559,836	1,884,200			
876	1109	1107.1	74° 30'	--	5.0	86° 40'	+64.5	+59.5		1,138.0		-114	+1101	559,797	1,884,527			
TP	1300	1297.8	73° 43' 46"	--	5.6	86° 40'	+75.6	+70.0			TP	-116	+1293	559,792	1,884,718			
TP	1300				5.5	273° 20'	+75.6	+70.1		1,148.6	TP	-3	-1					
	679	678.1	220° 02' 09"	+21.4	+5.5	93° -	+33.5	+41.0	1,189.6		BS	+324	+596					
	679				+3.5	93° 10'	+37.5	+41.0			BS	-3	-1					
877	548	547.2	217° 20'	--	5.0	93° 10'	-30.3	-35.3		1,154.3		-284	-468	559,829	1,884,845			
878	218		220° -	--	5.7	93° 10'	-12.0	-17.7		1,171.9		-104	-191	560,009	1,885,122			

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE					
6-28-85		B. Cotcamp		K. Greenfield		6834		KUH		6		77					
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER			
WASHINGTON		MARBLEMOUNT -15'		W. A.		SKAGIT								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		REMARKS	
														Y	X		
									1,189.6								
π	0				5.1	-		-5.1		1,184.5	π	0	0	560.113	1,885,313		
879	115		66 -	+21.4	5.8	87° 10'	+5.7	-0.1		1,189.5		+5	+115	560.118	1,885,428		
H-	124		59 50 52	-	5.0	87° 10'	+6.1	+1.1		1,190.7	#	+19	+122	560.132	1,885,435	#	9-560,125 X-1,885,355 section line
880	445	444.5	59° 15'	-	6.0	87° 20'	+20.7	+14.7		1,204.3		+72	+439	560.185	1,885,522		
TP	536	535.4	60° 03' 40"	-	7.8	87° 20'	+24.9	+17.1			TP	+80	+529	560.190	1,885,841		
TP	536				6.2	87° 30'	+23.4	+17.2		1,206.8	TP	-3	-1				
	599		257 25 37	+21.4	+10.7	92° -	+20.9	+31.6		1,238.4	BS	-92	+592				
	599				+9.0	92° 10'	+22.6	+31.6			BS	-3	-1				
881	363		256 45	-	4.7	92° 30'	-15.8	-20.5		1,217.9		+51	-359	560.146	1,886,073		
882	36		265 35	-	5.6	92° 30'	-1.6	-7.2		1,231.2		+11	-34	560.106	1,886,398		
π	0				5.1	-		-5.1		1,233.3	π	0	0	560.095	1,886,432		
883	298		50 30	+21.4	6.4	88° -	+10.4	+4.0		1,242.4		+93	+283	560.188	1,886,715		
884	628		48 50	-	5.3	88° -	+21.9	+16.6		1,255.0		+212	+591	560.307	1,887,023		
Bm	839	838.5	47 36 58	-	4.2	88° -	+29.3	+25.1		1,263.5	Bm	+300	+783	560.395	1,887,215		y-560,395 x-1,887,215 U.S. ENGINEER OFFICE CO. 12640 SEATTLE W.A. C 63 1945 Horiz y -59 CORR. x -37
TP	785	784.5	46 53 46	-	5.5	88° -	+27.4	+21.9			TP	+290	+729	560.385	1,887,161		
TP	785				5.4	272° -	+27.4	+22.0		1260.4	TP						
	547		201 21 45	+21.4	+11.4	-		+11.4		1271.8	BS	+402	+371				
	547				+11.3	270° -		+11.3			BS						
885	379		201 15	-	5.5	90° 20'	-2.2	-7.7		1,264.1		-279	-257	560.508	1,887,275		
886	53		185 -	-	5.1	90° 20'	-0.3	-5.4		1,266.4		-47	-24	560.740	1,887,508		

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE							
6-28-85		B. Cotcamp		K. Greenfield		6834		B.C.W.		6		78							
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER					
WASHINGTON		MARBLEMOUNT-15		W.A.		SKAGIT								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				
									1271.8										
X	0				5.1	-		-5.1		1,266.7	X	0	0	560.787	1,887,532				
887	283		37° 10'	+21.4	6.0	91° 20'	-6.6	-12.6		1,259.2		+148	+241	560.935	1,887,773				
TP	450		39° 56' 46"	"	6.6	91° 20'	-10.5	-17.1		1254.7	TP	+216	+395	561.003	1,887,927				
TP	450				5.3	91° 30'	-11.8	-17.1			TP								
	943		240° 39' 18"	"	+12.0	89° 10'	-13.7	-1.7	1253.0		BS	+130	+934						
	943				+11.9	270° 50'	-13.7	-1.8			BS								
888	780		239° 50'	+21.4	11.7	89° 10'	+11.3	-0.4		1,252.6		-119	-771	561,014	1,888,090				
889	451		-	"	5.9	88° 40'	+10.5	+4.6		1,257.6		-69	-446	561,064	1,888,415				
890	121		-	"	6.3	87° 40'	+4.9	-1.4		1,251.6		-18	-120	561,115	1,888,741				
X	0				5.1	-		-5.1		1,247.9	X	0	0	561,133	1,888,861				
891	208		59° 05'	+21.4	5.8	91° 40'	-6.0	-11.8		1,241.2		+34	+205	561,167	1,889,066				
892	538		-	"	5.4	89° 20'	+6.3	+0.9		1,253.9		+89	+531	561,222	1,889,392				
TP	755		57° 11' 09"	"	8.0	88° 30'	+19.8	+11.8			TP	+149	+740	561,282	1,889,601				
TP	755				7.9	271° 30'	19.8	+11.9		1264.9	TP								
	611		212° 17' 04"	+21.4	9.6	88° 30'	-16.0	-6.4	1258.5		BS	+362	+492						
	611				+11.3	88° 20'	-17.8	-6.5			BS								
893	502		212° 05'	"	6.0	88° 20'	+14.6	+8.6		1,267.1		-299	-403	561,345	1,889,690				
#	542		212° 35' 03"	"	6.3	88° 30'	+14.2	+7.9		1,266.4	#	-319	-438	561,325	1,889,655	#	561,315	x-1,889,625	creek
894	172		212° 05'	"	5.4	87° 30'	+7.5	+2.1		1,260.6		-102	-138	561,542	1,889,955				
X	0				5.1	-		-5.1		1,253.4	X	0	0	561,644	1,890,093				

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE					
6-28-85		B. Cotcamp		K. Greenfield		6834		KWA		6		79					
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER			
WASHINGTON		MARBLE MOUNT -15'		W.A.		SKagit								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		REMARKS	
														Y	X		
									1258.5								
895	169		69° 25'	+21.4	5.8	92° -	-5.9	-11.7		1246.8		-2	+169	561,642	1,890,262		
896	499		70° 50'	"	3.0	92° -	-7.4	-20.4		1,238.1		-19	+499	561,625	1,890,592		
897	829		71° 40'	"	5.1	92° -	-28.9	-34.0		1,224.5		-44	+828	561,600	1,890,921		
TP	1142	1141.4	71° 44' 47"	"	4.1	91° 50'	-36.5	-40.6		1217.9	TP	-63	+1140	561,581	1,891,233		
TP	1142				7.4	91° 40'	-33.2	-40.6			TP						
	351		266° 25' 45"	+21.4	2.7	-		+2.7	1220.6		BS	-107	+334				
	351				+4.4	TP	-1.8	+2.6			BS						
898	330		262° 25'	"	5.1	89° 40'	+1.9	-3.2		1,217.4		+79	-320	561,553	1,891,247		
899	0				5.1	-		-5.1		1,215.5	X	0	0	561,474	1,891,567		
900	330		96° 50'	"	4.5	89° 40'	+1.9	-2.6		1,218.0		-156	+291	561,318	1,891,868		
901	658		96° 35'	"	7.2	89° 40'	+3.8	-3.4		1,217.2		-309	+581	561,165	1,892,148		
TP	665		95° 07' 34"	"	11.6	89° 20'	+2.7	-3.9			TP	-297	+595	561,177	1,892,162		
TP	665				11.5	270° 40'	7.7	-3.8		1216.8	TP						
	650		267° 37' 40"	+21.4	4.6	89° -	-11.3	-6.7	1210.1		BS	-212	+614				
	650				+2.7	89° 10'	-9.5	-6.8			BS						
902	330		266° 20'	"	5.9	89° 20'	+3.8	-2.1		1208.0		+101	-314	561,066	1,892,462		
903	0				5.1	-		-5.1		1,205.0	X	0	0	560,965	1,892,776		
904	329		100° 45'	"	6.2	91° 30'	-8.6	-14.8		1,195.3		-175	+279	560,790	1,893,055		
TP	585	584.5	97° 41' 07"	"	4.6	92° 20'	-23.8	-28.4			TP	-284	+511	560,681	1,893,287		
TP	585				4.5	267° 40'	-23.8	-28.3		1181.8	TP						

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO		PAGE			
6-29-85		B. Cotcamp		K. Greenfield		6834		B.C.K.		6		80			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASH.		MARBLE Mount -15'		W.A.		SKagit								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
	398		252 54 20	+21.4	2.3	87° 30'	-17.3	-15.0	1166.8	1181.8	BS	-30	+397		
	398				+1.1	87° 40'	-16.2	-15.1			BS				
905	330		250 15	--	5.7	87°	+17.2	+11.5		1,178.3		+10	-330	560,661	1,893,354
906	0				5.1	-		-5.1		1,161.7	X	0	0	560,651	1,893,684
IF	161		69 57 44	--	8.3	94° 20'	-12.2	-20.5			TP	-4	+160	560,647	1,893,844
IF	161				8.2	265° 40'	-12.2	-20.4		1146.4	TP				
	538				+9.9	93° 10'	+29.7	+39.6	1186.0		BS				TRaverse Back
	538				+8.3	93° 20'	+31.3	+39.6			BS				TO B.M.
X	0				5.1	-		-5.1		1,180.9	X				↓
TP	627				10.2	87° 20'	+29.2	+19.0		1205.0	TP				
TP	627				8.4	87° 30'	+27.3	+18.9			TP				
	788				+2.3	91° 30'	+20.6	+22.9	1227.9		BS				
	788				+6.9	91° 10'	+16.0	+22.9			BS				
	0				5.1	-		-5.1		1,222.8					
TP	595				3.7	90° 50'	-8.7	-12.4		1215.5	TP				
TP	595				3.6	269° 10'	-8.7	-12.3			TP				
	657				+8.4	90° 50'	+9.6	+18.0	1233.5		BS				
	657				+6.5	91° -	+11.5	+18.0			BS				
	0				5.1	-		-5.1		1,228.4	X				↓

E.O.L. Line #6
 $y = 560,660x - 1,893,790$
 $y = \text{Inter.}$

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		PAGE					
6-29-85		B. Cotcamp		K. Greenfield		6834		B.C.W. & C.		81					
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASH.		MARBLEMOUNT -15'		W.A.		SKAGIT								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
									1233.5						
TP	768				4.6	88° -	+26.8	+22.2		1255.7	TP				
TP	768				2.4	88° 10'	+24.6	+22.2			TP				TRaverse to B.M.
	636				+12.4	-		+12.4	1268.1		BS				
	636				+12.3	270° -		+12.3			BS				
X	0				5.1	-		-5.1		1263.0	X				
TP	776				3.8	91° -	-13.5	-17.3		1250.8	TP				↓
TP	776				6.0	90° 50'	-11.3	-17.3			TP				
	1056				+5.5	90° 30'	+9.2	+14.7	1265.5		BS				
	1056				+5.4	269° 30'	+9.2	+14.6			BS				
X	0				5.1	-		-5.1		1,260.4	X				
TP	530				3.8	89° 30'	+4.6	+0.8			TP				
TP	530				3.7	270° 30'	+4.6	+0.9		1,266.4	TP				
	131				+3.1	-		+3.1	1269.5						
	131				+2.5	B.M.	+0.7	+3.2							
X	0				5.1	-		-5.1		1,264.4	X				
Bm	127				5.5	✓		-5.5		1264.0	Bm.				

U.S. ENGINEER OFFICE EL. 1264.0
C-63 1945