

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

Page 1 of 37

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
7-27-85		B. Stamp		K. Greenfield		6834				8		1			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASHINGTON		Mt. Bonaparte-15		WA.		OKANOGAN								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
K.	U.S. CANADA BORDER		y-734,760		x-2,435,200	(SCALED)				2622.4	R.				734,760 x - 2,435,200
	867		323° 44' 50"	+18.9	+8.6	-	+8.6		2631.0		BS	-828	+259		U.S. CANADA BORDER El. 2622.4
	867			+12.9	TH	-4.3	+8.6				BS				
1	705		316° 50'	--	11.9	-	-11.9		2619.1			+643	-290	734,575	2,435,169
2	393		306° 10'	--	9.7	-	-9.7		2621.3			+322	-225	734,254	2,435,234
3	83		276° -	--	4.7	-	-4.7		2626.3			+35	-75	733,967	2,435,384
π	0				5.1	-	-5.1		2625.9		π	0	0	733,432	2,435,459
4	316		185° 15'	+18.9	8.3	88° 30'	+8.3	±0.0	2631.0			-288	-129	733,644	2,435,330
5	640		181° 56' 30"	--	9.7	88° 30'	+16.8	+7.1	2638.1		TP	-548	-228	733,334	2,435,231
5	640				9.6	271° 30'	+16.8	+7.2			TP				
	1491		21° 69' 34"	--	+12.7	84	+7.5	+20.2	2658.3		BS	-1141	-960		
	1491				+12.6	84 270	+7.5	+20.1			BS				
6	1177		17° -	+18.9	9.7	90° 30'	-10.3	-20.0	2638.3			+953	+670	733,146	2,434,961
7	849		16° -	--	7.8	90° 10'	-2.5	-10.3	2648.0			+696	+486	732,889	2,434,757
8	542		6° 15'	--	7.8	-	-7.8		2650.5			+491	+230	732,684	2,434,501
9	218		356° 30'	--	10.7	88° -	+7.6	-3.1	2655.2			+210	+58	732,403	2,434,329
π	0				5.1	-	-5.1		2653.2		π	0	0	732,193	2,434,271
10	119		203° 10'	--	4.8	87° -	+6.2	+1.4	2659.7			-88	-80	732,105	2,434,191
11	446		195° 10'	--	7.7	88° 30'	+11.7	+4.0	2662.3			-369	-250	731,824	2,434,021
12	774		191° 45'	--	8.3	88° 50'	+15.8	+7.5	2665.8			-666	-395	731,527	2,433,876

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7-27-85		B. Cotcamp		K. Greenfield		6834		444		8		2							
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER					
WASHINGTON		Mt. BONAPARTE -15'		WA.		OKANOGAN								W. Cassidy					
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS	
												LAT.	DEP.	Y	X				
									2658.3										
TP	911		185° 14' 01"	+18.9	4.9	88° 50'	+18.5	+13.6		2671.9	TP	-831	-372	731,362	243,3897				
TP	911				4.8	271° 10'	+18.5	+13.7			TP		-2						
	371		49° 09' 39"	-	+7.8	92° 30'	+16.2	+24.0		2695.9	BS	-138	-344						
	371				+7.7	267° 30'	+16.2	+23.9			BS		-2						
#	473		60° 04' 38"	-	9.7	91° 50'	-15.1	-24.8		2671.1	#	+90	+464	731,374	243,4015	# creek crossing			RL 2671.1
13	156		9° 55'	-	7.2	92° -	-5.4	-12.6		2683.3		+137	+75	731,361	243,3626				
π	0				5.1	-		-5.1		2690.8	π	0	0	731,224	243,3551				
14	163		177° 10' 1"	+18.9	4.6	-		-4.6		2691.3		-157	-45	731,067	243,3506				
TP	278		186° 16' 41"	-	6.5	89° -	+4.9	-1.6		2694.3	TP	-252	-118	730,970	243,3431				
TP	278				6.4	271° -	+4.9	-1.5			TP		-2						
	1380		8° 09' 33"	-	+4.1	-		+4.1		2694.4	BS	-1229	-628						
	1380				+4.0	270° -		+4.0			BS		-2						
15	1173		7° 45'	-	9.6	90° 40'	-13.6	-23.2		2675.2		+1048	+526	730,787	243,3327				
16	843		6° 10'	-	6.5	90° 40'	-9.8	-16.3		2682.1		+764	+357	730,503	243,3158				
17	514		5° 15'	-	7.7	90° 40'	-6.0	-13.7		2684.7		+469	+210	730,208	243,3011				
#	452		6° 28' 06"	-	8.5	90° 40'	-5.3	-13.8		2684.6	#	+408	+194	730,147	243,2995	# section line			730,885 X - 2433,040
18	184		6° 15'	-	8.4	91° -	-3.2	-11.6		2686.8		+167	+78	729,906	243,2879				
π	0				5.1	-		-5.1		2693.3	π	0	0	729,739	243,2801				
19	145		197° 50'	+18.9	4.8	89° -	+2.5	-2.3		2696.1		-116	-87	729,623	243,2714				

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7-27-85		B. Cotcamp		K. Greenfield		6834		Kw...		8		3			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASHINGTON		Mt. Bonaparte-15		WA.		OKANOGA								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
20 TP	474		198° 04' 45"	+18.9	5.7	89° 30'	+4.1	-1.6	2698.4		TP	-379	-285	729358	2432,514
20 TP	474				7.1	89° 20'	+5.5	-1.6		2696.8	TP	-2	-2		
	508		4° 37' 33"	-	+14.8	-		+14.8			BS	-466	-203		
	508				+12.2	BM	+2.5	+14.7	2711.5		BS	-1	-2		
21	180		0° 30'	-	9.6	-		-9.6		2701.9		+170	+60	729,061	2432,369
X	0				5.1	-		-5.1		2706.4	X	0	0	728,891	2432,309
22	149		202° 40'	-	5.0	87°	+7.8	+2.8		2714.3		-111	-99	728,780	2432,210
TP	404		195° 42' 23"	-	7.9	88° 20'	+11.8	+3.9		2715.4	TP	-332	-229	728,558	2432,078
TP	404				7.9	271° 40'	+11.8	+3.9			TP	-1	-2		
	875		9° 29' 50"	+18.9	11.9	BM	+4.4	+16.3			BS	-770	-416		
	875				+13.7	90° 10'	+2.5	+16.2	2731.6		BS	-1	-2		
23	803		9° 55'	-	10.3	BM	-4.0	-14.3		2717.3		+704	+387	728,491	2432,047
24	474		8°	-	9.8	-		-9.8		2721.8		+423	+214	728,210	2431,874
25	149		356° 20'	-	9.4	-		-9.4		2722.2		+144	+39	727,931	2431,699
X	0				5.1	-		-5.1		2726.5	X	0	0	727,787	2431,660
26	181		183° 40'	+18.9	7.3	89° 10'	+2.6	-4.7		2726.9		-167	-69	727,620	2431,591
27	511				5.3	89° 10'	+7.4	+2.1		2733.7		-472	-196	727,315	2431,464
28	841		184°	-	6.8	89° 10'	+12.2	+5.4		2732.0		-775	-327	727,012	2431,333
TP	1091		178° 56' 09"	-	8.3	89° 10'	+15.9	+7.6		2739.2	TP	-1038	-334	726,748	2431,324
TP	1091				5.1	89° 20'	+12.7	+7.6			TP	-1	-2		

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7-27-85		B. Cotcamp		K. Greenfield		6834		[Signature]		8		4			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASHINGTON		Mt. Bonaparte-15		WA.		OKANOGAN								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 -							2739.2					
	2347		343 15 58	+18.9	7.9	91° -	+41.0	+48.9	2787.9		BS	-2345	-89		
	2347			+7.6	269° -	+41.0	+48.6	+48.8			BS	-1	-2		
29	2286		343 40	--	8.7	91° -	-39.9	-48.6		2739.3		+2284	+102	7226486	2431335
30	1956		343 35	--	5.8	91 20	-45.5	-51.3		2736.6		+1954	+85	7226356	2431318
31	1626		343 10	--	11.8	91 20	-37.8	-49.6		2738.3		+1625	+59	7226027	2431292
32	1296		342 35	+18.9	10.1	91 30	-33.9	-44.0		2743.9		+1296	+34	725698	2431267
33	967		341 50	--	9.4	91 30	-25.3	-34.7		2753.2		+967	+12	725369	2431245
34	638		340 50	--	9.7	91 30	-16.7	-26.4		2761.5		+638	-3	725040	2431230
35	329		326 15	--	7.9	93° -	-17.2	-25.1		2762.8		+318	-84	724720	2431149
36	0		329 13	--	8.4	93° -	-17.3	-25.7		2762.2	CE	+323	-68	724725	2431165
					5.1	-		-5.1		2782.8	T	0	0	724702	2431233
37	330		150 -	+18.9	6.4	88° -	+11.5	+5.1		2793.0		-324	+64	724078	2431297
38	660		150 50	--	5.5	88° -	+23.0	+17.5		2805.4		-649	+118	723753	2431351
TP	794		150 23 41	--	9.7	88° -	+27.7	+18.0		2805.9	TP	-780	+147	723621	2431398
TP	794				7.4	88 10	+25.4	+18.0			TP	-1	-2		
	625		341 02 41	--	6.0	91 30	+16.4	+22.4			BS	-625	+1		
	625			+5.9	268 30	+16.4	+22.3	+2828.2			BS	-1	-2		
39	427		340 35	--	6.8	91 30	-11.2	-18.0		2810.2		+427	-4	723422	2431373
40	97		339 10	--	5.6	91 30	-2.5	-8.1		2820.1		+97	-3	723092	2431324
T	0				5.1	-		-5.1		2823.1	T	0	0	722995	2431377

CE - 724,700 x - 7,431,200
Y - Enter

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE							
7-27-85		B. Cotcamp		K. Greenfield		6834		KUC		8		5							
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER					
WASHINGTON		Mt. Bonaparte-15		WA		OKANOGAN								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				
									2828.2										
41	234		175° 50'	+18.9	5.2	-		-5.2		2823.0		-226	-60	722769	2431317				
42	563		171° 35'	--	8.0	-		-8.0		2820.2		-554	-102	722,441	2431275				
43	893		170° 20'	--	7.6	TH	+4.5	-3.1		2825.1		-881	-143	722114	2431234				
44	1222		167° 11' 40"	--	9.0	-		-9.0		2819.2	TP	-1215	-130	721779	2431245				ACCESS STA.
44	1222				8.9	270-		-8.9			TP	-	-2						
	245		10° 40' 26"	+18.9	7.4	87-	-12.8	-5.4			BS	-213	-121						
	245				7.3	273-	-12.8	-5.5	2813.7		BS	-	-2						
K	0				5.1	-		-5.1		2808.6	K	0	0	721565	2431122				
45	90		205° 40'	--	6.3	90° 50'	-1.3	-7.6		2806.1		-64	-63	721501	2431059				
46	419		209° 10'	--	5.6	91°	-7.3	-12.9		2800.8		-280	-312	721285	2430810				
TP	518		207° 16' 06"	--	4.8	91-	-9.0	-13.8			TP	-359	-374	721205	24307146				
TP	518				3.4	91° 10'	-10.5	-13.9		2799.8	TP	-	-2						
	1547		8° 02' 34"	+18.9	10.8	90° 30'	+13.5	+24.3			BS	-1379	-701						
	1547				10.7	267° 30'	+13.5	+24.2	2824.0		BS	0-1	-2						
47	1318		8° 15'	--	9.8	90° 30'	-11.5	-21.3		2802.7		+1173	+601	720998	2430644				
48	990		7° 30'	--	5.3	90° 30'	-8.6	-13.9		2810.1		+887	+440	720712	2430483				
49	660		-	--	7.9	90° 30'	-5.8	-13.7		2810.3		+591	+293	720416	2430330				
50	330		-	--	7.8	90° 30'	-2.9	-10.7		2813.3		+296	+147	720121	2430190				
51	0				5.1	-		-5.1		2818.9	L	0	0	719825	2430043				
H	287		185° 41' 03"	--	7.1	89	+5.0	-2.1		2821.9		-261	-119	719564	2429924				

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7-29-85		B. Cotcamp		K. Greenfield		6834		KWB		8		6			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASHINGTON		Mt. Bonaparte		WA		OKANOGAN								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
									2824.0						
52	330		187° 05'	+18.9	7.3	89° -	+5.8	-1.5		2822.5	TP	-297	-145	719,528	2429898
53	659		185° 10'	--	7.6	89° -	+11.5	+3.9		2827.9		-602	-269	719,223	2429774
54	988		185° 15'	--	5.6	88° 46'	+23.0	+17.4		2841.4		-902	-404	718,923	2429639
55	1305		188° 40'	--	11.0	88° 10'	+41.7	+30.7		2854.7		-1157	-604	718,668	2429439
56	1623		185° 30'	--	5.4	88° 40'	+37.8	+32.4		2856.4		-1478	-670	718,347	2429333
TP	1683		184° 47' 10"	--	5.0	88° 40'	+39.2	+34.2		2858.0	TP	-1541	-676	718283	2429365
TP	1683				10.2	88° 30'	+44.1	+33.9	+34.03		TP	-1	-2		
	877		1° 04' 52"	+18.9	11.0	92° -	+30.6	+41.6			BS	-824	-300		
	877				10.9	268° -	+30.6	+41.5	28995		BS	-1	-2		
57	608		1° 10'	--	8.2	92° -	-21.2	-29.4		2870.1		+571	+209	718,029	2429272
58	278		3° 15'	--	7.1	92° -	-9.7	-16.8		2882.7		+257	+105	717,715	2429168
K	0				5.1	-		-5.1		2894.4	K	0	0	717458	2429063
59	58		217° 40'	+18.9	5.7	86° 20'	+3.7	-2.0		2897.5		-52	-48	717426	2429015
60	378		188° 40'	--	8.3	88° 20'	+11.0	+2.7		2902.2		-335	-175	717123	2428884
61	707		187° 05'	--	6.9	88° 50'	+14.4	+7.5		2907.0		-636	-310	716,822	2428753
62	1036		186° 28' 45"	--	8.4	89° 10'	+15.1	+6.7		2906.2	TP	-936	-444	716,521	2428617
62	1036				11.4	89° -	+18.1	+6.7			TP	-1	-2		
	1121		344° 00' 16"	--	6.6	89° -	-19.6	-13.0			BS	-1119	-57		
	1121				6.5	271° -	-19.6	-13.1	2893.1		BS	-1	-2		
63	296		342° 25'	--	6.0	89° 30'	+6.9	+0.9		2894.0		+796	+18	716197	2428576

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DATE	7-27-85	INSTRUMENT MAN	B. Cotcamp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	xlv	LINE NO.	8	PAGE	7	
AREA	Washington	TOPO MAP	Mt. Bonaparte-15	STATE	WA.	COUNTY	OKANOGAN	TWP		RANGE		PPM	PARTY MANAGER	W. Cassidy

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH - LAT.	EAST + WEST - DEP.	COORDINATES		REMARKS	
														Y	X		
									2893.1								
64	466		342° 30'	+18.9	8.7	90° 30'	-4.1	-12.8		2880.3		+466	+11	715867	2428569		
65	136		343° 30'	-	6.7	90° 30'	-1.2	-7.9		2885.2		+136	+6	715537	2428564		
T	0				5.1	-		-5.1		2888.0	T	0	0	715401	2428558		
66	193		158° -	-	6.2	87° 10'	+9.5	+3.3		2896.4		-193	+10	715208	2428568		
Bm	354		162° 21' 38"	-	2.0	87° 10'	+17.5	+15.5		2908.6	Bm	-353	-8	715048	2428560	715000 x - 2428505 U.S.G.S. B.M. EL. 2708.6	
TP	454		117° 40' 11"	-	6.9	-		-6.9		2,886.2	TP	-330	+312	715070	2428568		
TP	454				6.8	270° -		-6.8			TP	-	-				
BS	1729		303° 08' 21"	+18.9	8.7	90° 40'	+20.1	+28.8	2.9149		BS	-1363	+1063				
	1729				8.4	269° 20'	+20.1	+28.5	+28.73		BS	-	-				
67	1281		316° 45'	-	6.0	90° 50'	-18.6	-24.6		2890.3		+1167	-528	714873	2429401		
68	980		309° 45'	-	5.2	90° 50'	-14.2	-19.4		2895.5		+837	-510	714543	2429419		
69	656		307° -	-	5.4	90° 50'	-9.5	-14.9		2900.0		+543	-368	714249	2429561		
70	327		316° 45'	-	7.1	90° 50'	-4.8	-11.9		29030		+282	-165	713988	2429764		
71	0				5.1	-		-5.1		29098	T	0	0	713706	2429929		
72	330		170° 20'	+18.9	4.8	88° 50'	+6.7	+1.9		2916.8		-326	-53	713380	2429876		
73	659		168° 40'	-	5.8	88° 50'	+13.4	+7.6		29225		-653	-87	713053	2429942		
74	988		166° 40'	-	7.1	88° 50'	+20.1	+13.0		2927.9		-983	-96	712723	2429933		
75	1313		168° 30'	-	9.0	88° 50'	+26.7	+17.7		2932.6		-1302	-169	712407	2429760		
TP	1487		169° 53' 34"	-	10.7	88° 50'	+30.3	+19.6		29345	TP	-1469	-227	712236	2429700		
TP	1487				10.6	271° 10'	+30.3	+19.7			TP	-	-				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY				LINE NO.		PAGE	
7-30-85		B. Stamp		K. Greenfield		6834		KOL				8		8	
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASH.		Mt Bonaparte-15		WA.		OKANOGAN								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
										2934.5					
	1683		12° 56' 52"	+18.9	+10.8	90° 40'	+19.6	+30.4	2964.8		BS	-1430	-888		
	1683			+10.6		269° 20'	+19.6	+30.2	+30.3		BS	-1	-2		
76	1527		12° 12'	--	11.9	90° 40'	-17.8	-29.7		2935.1		+1308	+789	712,113	2429599
77	1197		--	--	12.0	90° 40'	-13.9	-25.9		2938.9		+1025	+618	711,830	2429428
78	867		--	--	9.4	91° -	-15.1	-24.5		2940.3		+742	+448	711,547	2429258
79	537		--	--	11.2	91° -	-9.4	-20.6		2944.2		+460	+277	711,265	2429087
80	207		--	--	9.3	91° -	-3.6	-12.9		2951.9		+177	+107	710,982	2428917
π	0				5.1	--		-5.1		2959.7	π	0	0	710,805	2428810
81	127		211° -	+18.9	5.2	88° -	+4.4	-0.8		2964		-82	-97	710,723	2428713
82	456		207° 50'	--	6.5	88° -	+15.9	+9.4		2974.2		-318	-332	710,492	2428478
83	786		208° 10'	--	4.1	88° -	+27.4	+23.3		2988.1		-535	-575	710,270	2428235
84	1109		204° 20'	--	5.4	88° -	+38.7	+33.3		2998.1		-808	-760	709,997	2428050
TP	1168	1167.2	203° 21' 03"	--	8.9	87° 50'	+44.1	+35.2	35.3	3000.1	TP	-864	-785	709,940	2428024
TP	1168			--	8.6	272° 10'	+44.1	+35.5			TP	-1	-1		
	591		344° 13' 13"	+18.9	+14.8	84° -	+3.0	+17.8		3,017.9	BS	-590	-32		
	591			+14.7		84° 20'	+3.0	+17.7			BS	-1	-1		
85	330		337° 30'	--	6.8	91° 10'	-6.7	-13.5		3,004.4		+329	-21	709,678	2427970
86	0			--	5.1	--		-5.1		3,012.8	π	0	0	709,349	2427991
87	330		140° -	--	9.1	86° 30'	+20.1	+11.0		3,029.7		-308	+119	709,041	2428110
88	660		--	--	5.2	86° 30'	+40.3	+35.1		3,053.0		-616	+238	708,733	2428229

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
7-29-85		B. Colcamp		K. Greenfield		6834		B.C.W.		8		10			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASHINGTON		MT. BONAPARTE-15		WA.		OKANOGAN								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
										3101.7					
	563	561.9	5° 10' 24"	+19.3	9.5	99° 40'	+35.9	+45.4	3147.1		BS	-511	-233		
	563			+11.2		93° 30'	+34.3	+45.5		BS					
102	297		3° 10'	-	8.7	93° -	-15.5	-24.2		3122.9		+274	+114	704226	2427939
X	0				5.1	-		-5.1		3142.0	X	0	0	703952	2427825
103	32		168° 35'	-	5.0	-		-5.0		3142.1		-32	-4	703920	2427821
104	359		154° 55'	-	19.8	87° 38'	+14.8	-5.0		3142.1		-357	+36	703595	2427861
TP	429		156° 05' 27"	-	11.9	88° 36'	+8.0	-3.9	3143.2		TP	-428	+34	703524	2427859
TP	429				14.4	88° 36'	+10.5	-3.9		TP					
	526		341° 19' 36"	+19.3	7.8	-		+7.8	3151.0		BS	-526	-6		
	526			+5.2		BH	+2.6	+7.8		BS					
105	269		340° 30'	-	5.9	90° 10'	-0.8	-6.7		3144.3		+269	-1	703267	2427852
X	0				5.1	-		-5.1		3145.9	X	0	0	702998	2427853
106	59		173° 40'	-	6.2	89° -	+1.0	-5.2		3145.8		-58	-13	702940	2427840
107	389		175° 30'	-	7.0	89° -	+6.8	-0.2		3150.8		-376	-99	702622	2427754
108	719		176° -	-	6.4	89° -	+12.5	+6.1		3157.1		-694	-190	702304	2427663
109	1049		174° 15' 23"	-	7.3	88° 40'	+24.4	+17.1	3168.1		TP	-1020	-246	701978	2427607
109	1049				7.2	271° 20'	+24.4	+17.2		TP					
	1486		350° 59' 07"	+19.3	9.9	91° 30'	+38.9	+48.8	4933 3268		BS	-1462	-265		
	1486			+9.6		268° 30'	+38.9	+48.5		BS					
#1	1429		351° 13' 08"	-	10.1	91° 30'	-39.4	-47.5		3169.3		+1405	+261	701921	2427603

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
7-29-85		B. Costamp		K. Greenfield		6834		B. Costamp		8		11			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASHINGTON		Mt. Bonaparte		WA.		OKANOGAN								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
									3216.8						
110	1156		350 35	+19.3	10.3	91 30	-30.3	-40.6		3176.2		+1139	+198	701655	2427540
111	826			-	5.4	91 30	-21.6	-27.0		3189.8		+814	+142	701330	2427484
112	498		350 20	-	6.1	91 30	-13.0	-19.1		3197.7		+491	+83	701007	2427425
113	168		349 50	-	5.1	91 20	-3.9	-9.0		3207.8		+166	+27	700682	2427369
X	0				5.1	-		-5.1		3211.7	X	0	0	700516	2427342
114	160		170 25	+19.3	5.6	88 20	+4.7	-0.9		3215.9		-158	-27	700358	2427315
115	486		179 25	-	7.4	88 20	+14.1	+6.7		3223.5		-460	-156	700056	2427186
116	816		177 32	-	10.8	88 50	+16.6	+5.8		3222.6	TP	-781	-236	699735	2427106
116	816				10.7	271 10	+16.6	+5.9			TP				
	401		8 10 34	+19.3	+6.7	-		+6.7		3229.3	BS	-356	-185		
	401				+8.7	JH	-2.0	+6.7			BS				
117	72		4 55	-	5.5	-		-5.5		3223.8		+66	+30	699445	2426951
X	0				5.1	-		-5.1		3224.2	X	0	0	699379	2426921
118	256		181 55	-	7.0	-		-7.0		3222.3		-239	-93	699140	2426828
TP	500		181 08 05	-	5.8	90 30	-4.4	-10.2		3219.1	TP	-469	-175	698910	2426746
TP	500				4.3	40 40	-5.8	-10.1			TP				
	578		6 45 51	+19.3	+7.9	-		+7.9		3227.0	BS	-519	-254	6	
	578				+5.0	BH	+2.9	+7.9			BS				
119	493		6 -	-	7.5	-		-7.5		3219.5		+446	+211	698837	2426703
120	163		-	-	5.3	-		-5.3		3221.7		+147	+70	698538	2426562

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	7-29-85	INSTRUMENT MAN	B. Camp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	B. C. W.	SHEET NO.	8	PAGE	12	
AREA	Washington	TOPO MAP	Mt. Bonaparte-15	STATE	WA.	COUNTY	OKANOGAN	TWP		RANGE		PPM	PARTY MANAGER	W. Cassidy

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH - LAT.	EAST + WEST - DEP.	COORDINATES		REMARKS	
														Y	X		
									3227.0								
X	0				5.1	-		-5.1		3221.9	X	0	0	698,391	2426,492		
121	164		167° 15'	+19.3	4.8	-		-4.8		3222.2	X	-163	-19	698,228	2426,473		
#	240		162° 54' 35"	--	6.7	-		-6.7		3220.3	H	-240	-9	698,151	2426,493	# section line	698,190 x 2,426,470
122	488		172° 15' 44"	--	6.5	90° 50'	-7.1	-13.6		3213.4	TP	-478	-98	697,913	2426,394		
122	488				6.4	269° 10'	-7.1	-13.5									
	1313	1311.8	343° 30' 33"	+19.3	4.2	92° 30'	+57.2	+61.4	3274.8		BS	-1310	-64				
123	986		342° 30'	--	9.1	92° 40'	-45.8	+54.9		3219.9		+986	+31	697,589	2426,361		
124	659		344° 45'	--	5.9	92° 40'	-30.6	-36.5		3238.3		+657	+47	697,260	2426,377		
125	330		344° -	--	8.4	92° 40'	-15.3	-23.7		3251.1		+329	+19	696,932	2426,349		
126	X 0				5.1	-		-5.1		3269.7	X	0	0	696,603	2426,330		
127	330		149° -	+19.3	5.6	88° 10'	+10.6	+5.0		3279.8		-323	+67	696,280	2426,397		
128	648		154° 58' 31"	--	7.2	88° 20'	+19.8	+11.6		3286.4	TP	-645	+65	695,958	2426,695		
128	648				7.1	271° 40'	18.9	+11.7			TP						
	436		354° 00' 09"	--	11.4	91° -	+7.6	+19.0	3305.4		BS	-424	-100				
	436				10.1	91° 10'	+8.9	+19.0			BS						
#	207		349° 57' 18"	--	7.2	92° -	-7.2	-14.4		3291.0		+204	+33	695,738	2426,328	# T-inter	695,810 x 2,426,300
129	108		345° 30'	--	7.8	92° -	-3.8	-11.6		3293.8		+108	+9	695,642	2426,304		
X	0				5.1	-		-5.1		3300.3	X	0	0	695,534	2426,295		
130	223		146° 20'	--	5.2	81° 50'	+31.7	+26.5		3331.9		-216	+55	695,318	2,426,350		
131	552		142° -	--	8.4	82° 40'	+70.5	+62.1		3367.5		-523	+177	695,011	2,426,472		

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	7-29-85	INSTRUMENT MAN	B. Cotcamp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	B. C. W.	LINE NO.	8	PAGE	13	
AREA	WASHINGTON	TOPO MAP	Mt. Bonaparte-15	STATE	WA.	COUNTY	OKANOGAN	TWP		RANGE		PPM	PARTY MANAGER	W. Cass, Jr.

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS	
												LAT.	DEP.	Y	X				
									3305.4										
TP	658	652.6	141° 25' 58"	+19.3	12.5	82° 40'	+84.0	+71.5	}	3376.9	TP	-616	+215	694,918	2426,510				
TP	658				12.4	277° 20'	+84.0	+71.6		TP									
	204	203.4	277° 54' 35"	-- +	9.7	94° 30'	+16.0	+25.7	}	3402.6	BS	-93	+181						
	204				9.1	94° 40'	+16.6	+25.7		BS									
X	0				5.1	-		-5.1		3397.5	X	0	0	694,825	2426,691				
132	12		66° -	--	4.8	-		-4.8		3397.8		+1	+12	694,826	2426,703				
133	332		42° 35'	--	13.1	85° 30'	+26.0	+12.9		3415.5		+156	+293	694,981	2426,984				
TP	407		48° 00' 18"	--	2.7	87° 30'	+17.7	+15.0	}	3417.6	TP	+157	+375	694,982	2427,066				
TP	407				2.7	272° 30'	+17.7	+15.0		TP									
	269	267.4	355° 14' 16"	+193.7	4.6	96° 16'	+29.4	+34.0	}	3451.6	BS	-259	-67						
	269				5.1	96° 10'	+28.9	+34.0		BS									
134	56		320° 05'	--	5.7	95° 30'	-5.4	-11.1		3440.5		+52	-20	694,775	2426,979				
X	0				5.1	-		-5.1		3446.5	X	0	0	694,723	2426,999				
135	276		160° 15'	--	6.0	88° -	+9.6	+3.6		3455.2		-276	+2	694,447	2427,001				
TP	356		158° 38' 33"	--	8.4	88° 20'	+10.3	+1.9	}	3453.5	TP	-356	+13	694,367	2427,012				
TP	356				9.4	88° 10'	+11.4	+2.0		TP									
	909		338° 35' 28"	-- +	6.3	-		+6.3	}		BS	-908	+33						
	909				6.2	270° -		+6.2		BS									
136	660		338° 20'	--	6.7	-		-6.7		3453.0		+659	-27	694,118	2427,018				
137	380		--	--	5.1	-		-5.1		3454.6		+330	-14	693,789	2427,031				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
7-29-85		B. Cotcamp		K. Greenfield		6834		BCW		8		14			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WAS WASHINGTON		Mt. Bonaparte -15		WA.		OKANOGAN								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
									3459.7						
138	0				5.1	-		-5.1		3454.6	X	0	0	693,459	2427045
139	330		164 30	+19.3	3.6	-		-3.6		3456.1		-329	-22	693,130	2427023
TP	480		161 22 03	--	4.7	74	+2.4	-2.3		3457.4	TP	-480	-6	692,979	2427,039
TP	480				4.6	74 270	+2.4	-2.2			TP				
	514		291 47 02	--	9.5	91	+9.0	+18.5	3475.9		BS	-338	+387		
	514				8.0	91 10	+10.5	+18.5			BS				
140	372		293 -	+19.3	6.6	91 30	-9.7	-16.3		3459.6		+250	-275	692,891	2427,151
141	192		354 15'	--	7.7	90 10	-0.6	-8.3		3467.6		+187	+45	692,828	2427,471
X	0				5.1	-		-5.1		3470.8	X	0	0	692,641	2427,426
142	147		101 15'	--	14.0	83 34	+16.5	+2.5		3478.4		-75	+127	692,566	2,427,553
143	305		186 25	--	5.7	88 10	+9.9	+4.1		3480.0		-275	-132	692,366	2427,294
TP	587		190 12 57	--	4.6	88 10	+13.7	+9.1		3485.0	TP	-511	-289	692,130	2427,137
TP	587				4.5	271 20	+13.7	+9.2			TP				
	370		19 41 16	+19.3	8.6	-		+9.6	3493.6		BS	-288	-233		
	370				10.5	74	-1.9	+8.6			BS				
144	325		18 30	--	5.8	90 40	-3.8	-9.6		3484.0		+257	+199	692,099	2427,103
145	0				5.1	-		-5.1		3488.5	X	0	0	691,942	2426,904
146	330		180 50	--	5.3	87 30	+14.4	+9.1		3502.7		-310	-114	691,532	2426,790
TP	518		179 55 52	--	4.6	88 10	+16.6	+12.0		3505.6	TP	-489	-171	691,353	2426,733
TP	518				4.5	271 50	+16.6	+12.1			TP				

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE	7-29-85	INSTRUMENT MAN	B. Costamp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	B.C.W.	LINE NO.	8	PAGE	15	
AREA	WASHINGTON	TOPO MAP	Mt. Bonapark-15'	STATE	WA.	COUNTY	OKANOGAN	TWP		RANGE		PPM	PARTY MANAGER	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	
										3505.6						
	861		325 21 40	+19.3	10.0	-		+10.0	3515.6		BS	-830	+228			
	861			+9.9		270-		+9.9	5		BS					
147	727		324 50	-	6.5	91°10'	-14.8	-21.3		3494.3		+699	-199	691222	2426762	
147	644		325 47 30	-	9.4	91°10'	-13.1	-22.5		3493.1	14	+622	-166	691145	2426795	14-691,200 x 2426,870 14-Enter. E.L. 34890
147	571		326 09 15	-	11.3	91°10'	-11.6	-22.9		3492.7						
148	397		325 10	-	6.8	92-	-13.8	-20.6		3495.0		+383	-106	690906	2426855	
149	74		304 15	-	9.1	92-	-2.6	-11.7		3503.9		+60	-44	690583	2426917	
149	0				5.1	-		-5.1		3510.5	14	0	0	690523	2426961	
150	244		111 50	+19.3	7.9	87-	+12.9	+4.9		3520.5		-161	+184	690362	2427145	
TP	292		114 34 51	-	7.3	87-	+15.3	+8.0		3523.6	TP	-202	+210	690321	2427171	
TP	292				7.2	273-	+15.3	+8.1			TP					
	239		316 22 40	+19.3	12.0	-		+12.0	3535.6		BS	-218	+98			
	239			+10.8		BM	+1.2	+12.0			BS					
151	0				5.1	-		-5.1		3530.5	14	0	0	690103	2427269	
151	43		133 50	-	4.9	-		-4.9		3530.7		-38	+19	690065	2427389	
152	366		114 10	-	5.7	91-	-6.4	-12.1		3523.5		-252	+266	689851	2427535	
TP	454		113 22 28	-	3.2	91-	-7.9	-11.1		3524.5	TP	-308	+334	689795	2427603	
TP	454				1.9	91°10'	-9.2	-11.1			TP					
	264		332 09 34	+19.3	12.3	-		+12.3	3536.8		BS	-261	+39			
	264			+11.1		BM	+1.3	+12.4			BS					

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE							
7-30-85		B. Colcamp		K. Greenfield		6834		B.C.		8		16							
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER					
WASHINGTON		MT. BONAPARTE - 15		WA.		OKANOGAN								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				
									3536.8										
153	18		345 50	+19.3	6.3	91 30	-0.5	-6.8		3530.0		+18	+2	689552	2427644				
X	0				5.1	-		-5.1		3531.7	X	0	0	689534	2427642				
TP	284	283.1	182 41 20	--	4.9	85 30	+22.3	+17.4		3554.2	TP	-263	-106	689271	2427536				
TP	284				5.7	85 20	+23.1	+17.4			TP								
	671		306 34 16	--	+8.8	91 -	+11.7	+20.5	3574.7		BS	-555	+376						
	671				+6.8	91 10	+13.7	+20.5			BS								
154	656		305 35	+19.3	4.7	91 20	-15.3	-20.0		3554.7		+537	-377	689253	2427535				
155	327		305 50	--	10.0	91 20	-7.6	-17.6		3557.1		+268	-187	688984	2427725				
X	0				5.1	-		-5.1		3569.6	X	0	0	688716	2427912				
156	44		216 15	--	6.0	91 20	-1.0	-7.0		3567.7		-25	-36	688691	2427876				
157	354		167 55	--	5.3	87 20	+16.5	+11.2		3585.9		-351	-44	688366	2427868				
158	682		168 30	--	10.0	88 -	+23.8	+13.8		3588.5		-676	-93	688040	2427814				
159	1013		167 10 33	--	14.4	88 06	+33.6	+19.2			TP	-1006	-114	687710	2427798				
159	1013				14.3	271 54	+33.6	+19.3		3594.0	TP								
	558		347 18 31	+19.3	+6.7	-		+6.7	3600.7		BS	-554	-64						
	558				+9.5	74 -	-2.8	+6.7			BS								
160	229		343 55	--	9.7	90 20	-1.3	-11.0		3589.7		+229	+13	687385	2427747				
X	0				5.1	-		-5.1		3595.6	X	0	0	687156	2427734				
161	94		118 20	--	5.3	89 -	+1.6	-3.7		3597.0		-69	+63	687087	2427797				
162	416		103 50	--	7.3	-		-7.3		3593.4		-227	+348	686929	2428082				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
7-30-85		B. Costamp		K. Greenfield		6834		B.C.K.		8		17			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASHINGTON		MT. BONAPARTE - 15'		WA.		OKANOGAN								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
									3600.7						
TP	462		107 18 36	+19.3	6.4	-	-6.4			3594.3	TP	-276	+371	686880	2428105
TP	462				8.7	TH	+2.3	-6.4			TP				
	316		352 07	~	+14.7	91°	+5.5	+20.2	3614.5		BS	-310	-63		
	316				+13.8	91 10	+6.4	+20.2			BS				
163	80		336 40	~	5.8	91°	-1.4	-7.2		3607.3		+80	-6	686,650	242 8036
X	0				5.1	-		-5.1		3609.4	X	0	0	686,570	2428,042
TP	79		146 15 10	~	4.1	88 30	+2.1	-2.0		3612.5	TP	-76	+20	686,494	2428062
TP	79				3.9	88 40	+1.8	-2.1			TP				
	242		300 35 18	+19.3	1.7	-		+1.7	3614.2		BS	-185	+156		
	242				+2.9	TH	-1.2	+1.7			BS				
164	43		292 50	~	4.6	-		-4.6		3609.6		+29	-32	686,338	2428,186 west sta. on road
X	0				5.1	-		-5.1		3609.1	X	0	0	686,309	2428,218
165	304		191 20	~	6.3	81°	+47.6	+41.3		3655.5		-258	-153	686,051	2,428,065 cross country
TP	329	324.5	191 34 10	~	5.2	81°	+51.5	+46.3		3660.5	TP	-279	-167	686,930	2428091
TP	329				5.1	279°	+51.5	+46.4			TP				
	224		322 58 46	+19.3	10.4	93 30	+13.7	+24.1	3684.6		BS	-213	+68		
	224				+9.7	93 40	+14.3	+24.0			BS				
X	0				5.1	-		-5.1		3679.5	X	0	0	685,917	2428,119
166	100		181 30	~	1.4	101 40	-20.2	-21.6		3663.0		-92	-35	685,725	2428084

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
7-30-85		B. Cotcamp		K. Greenfield		6834		B.C.W.		8		18			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Washington		Mt. Bonaparte-15		WA.		OKANOGAN								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
									3684.6						
TP	136	134.7	172 57 39	+19.3	8.0	98°	-18.9	-26.9		3657.7	TP	-132	-29	685,685	2428,090
TP	136				7.6	98 10	-19.3	-26.9			TP				
	221	215.3	359 56 40	-- +	6.1	77°	-49.7	-43.6	3644.1		BS	-203	-71		
	221				+6.0	283°	-49.7	-43.7			BS				
X	0				5.1	-		-5.1		3609.0	X	0	0	685,482	2429,019
167	63		206 40	--	4.7	87°	+3.3	-1.4		3612.7		-44	-45	685,438	2427,974
TP	262		183 45 33	--	4.5	87 30	+11.4	+6.9			TP	-241	-103	685,241	2427,916
TP	262				4.4	272 30	+11.4	+7.0		3621.1	TP				
	255		21 18 52	+19.3 +	13.2	-		+13.2	3634.3		BS	-194	-166		
	255				+11.9	64	+1.3	+13.2			BS				
168	129		9 50	--	8.2	-		-8.2		3626.1		+113	+63	685,160	2427,813
X	0				5.1	-		-5.1		3629.2	X	0	0	685,047	2427,750
169	208		181 40	--	8.2	85 10	+16.9	+8.7		3643.0		-187	-72	684,860	2427,678
TP	366	364.4	177 33 27	--	5.7	84 40	+34.0	+28.3			TP	-349	-106	684,698	2427,644
TP	366				5.6	275 20	+34.0	+28.4		3662.7	TP				
	178	175.3	9 14 04	+19.3 +	8.3	100 -	+30.9	+39.2	3702.0		BS	-154	-84		
	178				+10.0	99 30	+29.4	+39.4	+39.3		BS				
170	16		20 -	--	5.8	102 -	-3.3	-9.1		3692.9		+12	+10	684,556	2427,570
X	0				5.1	-		-5.1		3696.9	X	0	0	684,544	2427,560

NEAR TWP 5

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
7-30-85		B. Cotcamp		K. Greenfield		6834		B.C.W.		8		19			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASHINGTON		Mt. Bonaparte-15		WA		OKANOGAN								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
									3702.0						
TP	105	91.7	178° 46' 54"	+19.3	4.6	60° 50'	+51.2	+46.6			TP	-87	-28	684457	2427532
TP	105				4.1	01 -	+50.9	+46.8	+46.7	3748.7	TP				
	154	149.7	8° 23' 40"	-19.8	5.1	103° 30'	+36.0	+41.1		3789.8	BS	-133	-70		
	154				5.0	256° 30'	+36.0	+41.0			BS				
K	0				5.1	-	-5.1			3784.7	K	0	0	684324	2427462
171	54		184° 40'	~	3.5	86° 30'	+3.3	-0.2		3789.6		-49	-22	684125	2427440
172	235		180° 35'	~	6.2	85° 50'	+17.1	+10.9		3800.7		-220	-80	684104	2427382
172	377		197° 10'	~	12.0	86° 40'	+21.9	+9.9		3799.7		-303	-224	684021	2427238
TP	486		193° 18' 24"	~	6.0	87° 10'	+24.0	+18.0		3807.8	TP	-409	-262	683915	2427200
TP	486				7.4	87° -	+25.4	+18.0			TP				
	510	509.1	314° 48' 34"	+19.3	9.0	93° 30'	+31.1	+40.1		3847.9	BS	-458	+222		
	510				10.4	93° 20'	+29.7	+40.1			BS				
173	292		311° 55'	~	6.1	93° 10'	-16.1	-22.2		3825.7		+256	-141	683713	2427281
K	0				5.1	-	-5.1			3842.8	K	0	0	683457	2427422
174	38		134° 10'	~	5.1	89° 30'	+0.3	-4.8		3843.1		-34	+17	683423	2427439
175	367		136° 40'	~	7.8	89° 30'	+3.2	-4.6		3843.3		-335	+149	683122	2427571
TP	482		137° 00' 48"	~	10.4	89° 30'	+4.2	-6.2		3841.7	TP	-441	+194	683016	2427616
TP	482				9.0	89° 40'	+2.8	-6.2			TP				
	782	719.9	343° 23' 58"	+19.34	9.7	94° 10'	+56.8	+66.5			BS	-779	-37		
	782				+12.0	94° -	+54.6	+66.6		3908.3	BS				

MAP CHANGE - 7 1/2

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	7-30-85	INSTRUMENT MAN	B. Cotcamp	ROD MAN	K. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	B.C.K.	LINE NO.	8	PAGE	20	
AREA	Washington	TOPO. MAP	Mt. Bonaparte 15	STATE	WA.	COUNTY	OKANOGAN	TWP		RANGE		PPM	PARTY MANAGER	W. Cassidy

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS	
												LAT.	DEP.	Y	X				
									3908.3										
176	562		343° 35'	+19.3	9.1	95° -	-49.0	-58.1		3850.2		+561	+28	682,798	2427,607				
177	233		341° 40'	--	9.7	95° -	-20.3	-30.0		3878.3		+233	+4	682,470	2427,583				
Σ	0				5.1	-		-5.1		3903.2	Σ	0	0	682,237	2427,579				
178	96		165° 30'	--	5.8	84° -	+10.0	+4.2		3912.5		-96	-8	682,141	2427,571				
179	427	425.7	159° 50' 18"	--	6.8	85° 30'	+33.5	+26.7		3935.0	TP	-426	+6	681,811	2427,585	ACROSS STA.			
179	427				6.7	274° 30'	+33.5	+26.8			TP								
	660		351° 12' 27"	+19.3	12.5	89° -	-11.5	+1.0	3936.0		BS	-649	-120						
	660				+10.6	89° 10'	-9.6	+1.0			BS								
180	330		350° 20'	--	7.7	88° 10'	+10.6	+2.9		3938.9		+325	+55	681,497	2427,520				
181	0				5.1	-		-5.1		3930.9	Σ	0	0	681,162	2427,465				
182	330		169° 20'	--	8.9	90° 30'	-2.9	-11.8		3924.2		-326	-50	680,836	2427,415				
183	654		163° 45'	--	7.4	80° 30'	+17.1	+9.7		3945.7		-653	-35	680,509	2427,430				
TP	916		163° 17' 40"	--	7.2	88° 20'	+26.6	+19.4		3955.4	TP	-915	-41	680,247	2427,424				
TP	916				4.6	88° 30'	+24.0	+19.4			TP								
	703	700.8	37° 32' 19"	+19.3	5.7	94° 30'	+55.2	+60.9	4016.3		BS	-383	-587						
	703				5.6	265° 30'	+55.2	+60.8			BS								
184	605		37° 05'	--	8.7	94° 40'	-49.2	-57.9		3958.4		+335	+504	680,199	2427,341				
185	276		35° 40'	--	9.1	94° 40'	-22.5	-31.6		3984.7		+158	+226	680,022	2427,063				
Σ	162		34° -	--	7.8	94° 40'	-13.2	-21.0		3995.3	Σ	+96	+129	679,960	2426,966	Σ y - intersect			
Σ	0				5.1	-		-5.1		4011.2	Σ	0	0	679,864	2426,937				

Σ y - intersect

SURVEY NOTES-HIGH RESOLUTION DATA
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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
7-30-85		B. Camp		K. Greenfield		6834				8		21			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASHINGTON		Mt. Bonaparte-15'		WA.		OKANOGAN								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
									4016.3						
186	54		180° 35'	+19.3	5.8	84° 30'	+5.2	-0.6		4015.7		-51	-18	679,813	2,426,819
TP	283	281.9	165° 23' 30"	-	8.3	85° -	+24.7	+16.4		4032.7	TP	-281	-23	679,583	2,426,814
TP	283				8.2	275° -	+24.7	+16.5			TP				
	965		315° 00' 27"	-	+8.9	91° 40'	+28.1	+37.0	4069.7		BS	-869	+418		
	965				+6.1	91° 50'	+30.9	+37.0			BS				
187	877		314° 40'	-	8.0	91° 30'	-23.0	-31.0		4038.7		+788	-385	679,502	2,426,847
188	547		315° 25'	-	9.7	91° 30'	-14.3	-24.0		4045.7		+495	-234	679,209	2,426,998
189	218		316° 30'	-	8.7	91° 30'	-5.7	-14.4		4055.3		+199	-89	678,914	2,427,143
π	0				5.1	-		-5.1		4064.6	π	0	0	678,714	2,427,232
190	121		171° 35'	+19.3	5.1	87° 30'	+5.3	+0.2		4069.9		-119	-23	678,595	2,427,209
TP	352	351.3	173° 02' 39"	-	7.8	86° 30'	+21.5	+11.7		4081.4	TP	-343	-75	678,371	2,427,157
TP	352				9.7	273° 30'	+21.5	+11.8			TP				
	479	478.3	3° 49' 53"	-	+8.3	93° -	+25.1	+33.4	4114.8		BS	-440	-188		
	479				+6.9	93° 10'	+26.5	+33.4			BS				
191	382		3° 30'	-	6.8	93° 10'	-21.1	-27.7		4086.9		+352	+148	678,283	2,427,117
192	58		21° 10'	-	11.0	93° 10'	-3.2	-14.2		4100.6		+44	+38	677,975	2,427,007
π	0				5.1	-		-5.1		4109.7	π	0	0	677,931	2,426,969
193	294		145° 40'	-	9.1	89° 10'	+4.3	-4.8		4110.0		-284	+76	677,647	2,427,045
194	623		147° -	-	11.6	89° 10'	+9.1	-2.5		4112.3		-605	+148	677,326	2,427,117

SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
7-30-85		B. Cotamp		K. Greenfield		6834		B.C.K.		8		22				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
WASHINGTON		MT. DONAPARK-15		WA.		OKANOGAN								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	
									4114.8							
TP	870		146 06 38	+18.9	11.2	89 10'	+12.7	+1.5		4116.3	TP	-840	+225	677091	2427194	
TP	870		"		11.1	270 50'	+12.7	+1.6			TP					
	887		334 08 41	~	+8.1	BM	+4.4	+12.5	41288		BS	-880	+107			
	887				+8.0	BM 230'	+4.4	+12.4			BS					
195	810		336 10	~	10.9	90 30'	-7.1	-18.0		4110.8		+807	-70	677018	2427231	
196	480		335 25	~	11.6	90 30'	-4.2	-15.8		4113.0		+478	-48	676689	2427253	
197	152		329 30	~	9.8	90 30'	-1.3	-11.1		4117.7		+149	-31	676360	2427270	
K	0				5.1	-		-5.1		4123.7	K	0	0	676211	2427301	
198	182		167 25	+18.9	5.6	90 30'	-1.6	-7.2		4121.6		-181	-20	676030	2427281	
199	512		166 25	~	6.4	90 30'	-4.5	-10.9		4117.9		-510	-47	675701	2427254	
200	842		166 10	~	7.8	90 30'	-7.4	-15.2		4113.6		-839	-74	675372	2427227	
201	1172		165 55	~	3.0	90 30'	-10.2	-13.2		4115.6		-1168	-98	675043	2427203	
TP	1340		165 24 11	~	6.6	90 20'	-7.8	-14.4		4114.4	TP	-1336	-101	674875	2427200	
TP	1340				6.5	269 40'	-7.8	-14.3			TP					
	925		315 45 41	+18.9	2.7	TM	-4.6	-1.9	4112.5		BS	-836	+396			
	925				2.6	TM 270'	-4.6	-2.0			BS					
202	766		314 55	~	6.0	89 30'	+6.7	+0.7		4113.2		+687	-338	674726	2427259	
203	436		-	~	6.7	89 30'	+3.8	-2.9		4109.6		+391	-192	674430	2427404	
204	109		309 05'	~	4.9	89 30'	+1.0	-3.9		4108.6		+92	-58	674131	2427538	
K	0				5.1	-		-5.1		4107.4	K	0	0	674039	2427596	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
7-30-85		B. Cotcamp		K. Greenfield		6834		Kvale		8		23			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASHINGTON		Mt. BANAPARTE-15		WA.		OKANOGAN								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
									4112.5						
205	248		185° 50'	+18.9	4.7	86° 40'	+14.4	+9.7		4122.2		-225	-104	673814	2427,492
206	578		186° 10'	-	15.0	87° 09'	+28.7	+13.7		4126.2		-524	-245	673515	2427,351
TP	586		186° 01' 48"	-	15.0	87° 11' 39"	+28.7	+13.7			TP	-531	-247	673,508	2,427,349
TP	586														
	203		1° 16' 05"	+18.9	7.8	89° -	-3.5	+4.3	4130.5		BS	-191	-70		
	203				7.2	89° 10'	-3.0	-4.2			BS				
X	0			-	5.1	-		-5.1		4125.4	X	0	0	673317	2427,779
207	244 114		158° 05'	-	5.3	91° -	-2.0	-7.3		4123.2		-114	+6	673,203	2427,285
208	442		155° 30'	-	5.2	91° -	-2.7	-12.9		4117.6		-440	+43	672,877	2427,322
TP	583		155° 41' 10"	-	8.6	90° 30'	-5.1	-13.7		4116.8	TP	-580	+55	672,737	2427,334
TP	583				6.9	90° 40'	-6.8	-13.7			TP				
	1421		349° 28' 15"	+18.9	7.9	89° 10'	-20.7	-12.8	4104.0		BS	-1406	-207		
	1421				7.8	270° 50'	-20.7	-12.9			BS				
209	1230		349° 05'	-	5.8	84° 16'	+15.7	+9.9		4113.9		+1218	+171	672549	2427,298
210	960		- -	-	6.4	89° 20'	+10.5	+4.1		4108.1		+891	+125	672,222	2427,252
211	570		349° 15'	-	7.1	89° 20'	+6.6	-0.5		4103.5		+564	+81	671,895	2427,209
212	240		- -	-	9.2	89° 20'	+2.8	-6.4		4097.6		+238	+34	671,569	2427,161
X	0				5.1	-		-5.1		4098.9	X	0	0	671,331	2427,127
213	93		199° 40'	+18.9	5.0	87° 40'	+3.8	-1.2		4102.8		-73	-58	671,258	2427,069
214	421		206° 50'	-	6.1	87° 40'	+7.1	+11.0		4115.0		-294	-301	671,037	2426,826

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE						
7-30-85		B. Costamp		K. Greenfield		6834		KLD		8		24						
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER				
WASHINGTON		MT. BANAPORTE-15		WA.		OKANOGAN								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			
									4104.0									
TP	564		204 03 16	+18.9	6.7	87° 10'	+27.9	+21.2		4125.2	TP	-412	-384	670,919	2426,743			
TP	564				8.3	87° -	+29.5	+21.2			TP							
	1045		338 03 37	+18.6	11.8	91° 10'	+21.3	+33.1	4158.3		BS	-1043	+61					
	1045				11.7	268° 50'	+21.3	+33.0			BS							
215	857		337 20	-	8.0	91° 10'	-17.4	-25.4		4132.9		+855	-61	670,731	2426,743			
216	527		336 45	-	12.1	90° 10'	-1.5	-13.6		4144.7		+525	-43	670,401	2426,761			
217	197		337 -	-	5.5	90° 10'	-0.6	-6.1		4152.2		+176	-15	670,072	2426,787			
π	0				5.1	-		-5.1		4153.2	π	0	0	669,876	2426,804			
218	131		165 30	+18.6	5.4	84° 30'	+1.1	-4.3		4154.0		-131	-9	669,745	2426,795			
219	461		168 -	-	6.9	89° 10'	+6.7	-0.2		4158.1		-458	-53	669,414	2426,751			
220	790		167 -	-	11.6	89° 20'	+9.2	-2.4		4155.9		-786	-77	669,090	2426,727			
TP	960		167 48 25	-	9.9	89° 10'	+14.0	+4.1		4162.4	TP	-954	-107	668,922	2426,697			
TP	960				9.9	270° 50'	+14.0	+4.1			TP							
	581		323 54 36	+18.6	11.8	-		+11.8	4174.2		BS	-554	1175					
	581				11.7	270 -		+11.7			BS							
221	416		322 35	-	7.4	91° 30'	-10.9	-14.3		4155.9		+394	-134	668,762	2426,738			
222	88		311 50	-	6.4	-		-6.4		4167.8		+77	-43	66,8445	2426,829			
π	0				5.1	-		-5.1		4169.1	π	0	0	668,368	2426,872			
223	240		133 10	-	6.2	89° -	+4.2	-2.0		4172.2		-211	+114	668,157	2426,986			
224	568		131 05	-	6.9	87° 50'	+21.5	+14.6		4188.8		-490	+287	667,878	2427,159			

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
7-30-85		B. Cotcamp		K. Greenfield		6834		KUG		8		25			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASHINGTON		Mt. Bonaparte-15		WA		OKANOGAN								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
									4174.2						
TP	716		132 08 09	+18.6	4.4	87 30	+31.2	+26.8		4201.0	TP	-624	+350	667,744	2427,222
TP	716				4.3	272 30	+31.2	+26.9			TP				
	1045	1043.1	339 02 41	-	5.1	93 30	+63.8	+66.9	4269.9		BS	-1042	+43		
	1045				5.0	266 30	+63.8	+68.8			BS				
225	861		338 50	-	8.4	93 30	-52.6	-61.0		4208.9		+860	-39	667,562	2427,226
226	531		338 25	-	11.0	93 30	-32.4	-43.4		4226.5		+530	-28	667,232	2427,237
227	201		339 35	-	9.1	93 30	-12.3	-21.4		4248.5		+201	-6	666,903	2427,259
π	0				5.1	-		-5.1		4264.8	π	0	0	666,702	2427,265
228	128		167 45	+18.6	4.6	86 30	+7.8	+3.2		4273.1		-127	-14	666,575	2427,251
229	458		-	-	6.4	86 30	+28.0	+21.6		4291.5		-455	-51	666,247	2427,214
230	785	783.5	166 22 01	-	4.0	86 30	+47.9	+43.9		4313.8	TP	-781	-68	665,921	2427,197
230	785				6.3	86 20	+50.2	+43.9			TP				
	330		331 36 38	-	12.0	92 -	+11.5	+23.5	4337.3		BS	-325	+56		
	330				11.1	92 10	+12.5	+23.6			BS				
231	0				5.1	-		-5.1		4332.2	π	0	0	665,596	2427,253
232	350		165 16	+18.6	5.6	87 -	+17.2	+11.6		4348.9		-329	-22	665,267	2427,231
TP	461	460.4	162 42 51	-	8.9	87 -	+24.1	+15.2		4352.5	TP	-460	-11	665,136	2427,242
TP	461				7.6	87 10	+22.8	+15.2			TP				
	527		340 54 50	-	10.1	-		+10.1	4362.6		BS	-527	+4		
	527				10.0	270 -		+10.0			BS				

SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
7-30-85		B. Cotcamp		K. Greenfield		6834		HWA		8		26			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Washington		Mt. Bonaparte-15		WA.		OKanogan								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
									4362.6						
233	330		340° 40'	+18.6	9.2	-		-9.2		4353.4		+330	-4	664939	2427242
234	0				5.1	-		-5.1		4357.5	T	0	0	664609	2427246
235	330		169° 50'	--	4.0	89° -	+5.8	+1.8		4364.4		-326	-48	664283	2427198
236	660		169° 40'	-	4.6	89° -	+11.5	+6.9		4369.5		-653	-95	663956	2427151
237	984		168° 40'	-	6.0	89° -	+17.3	+11.3		4373.9		-981	-125	663628	2427121
238	1318		168° 50'	-	7.7	88° 30'	+34.5	+26.8		4389.4		-1307	-171	663302	2427075
TP	1384		168° 46' 09"	-	5.1	88° 30'	+36.2	+31.1		4393.7	TP	-1372	-177	663237	2427069
TP	1384				5.0	271° 30'	+36.2	+31.2			TP				
	266		3 51 03	+18.6	+16.3	92° -	+9.3	+19.6	4413.3		BS	-246	-102		
	266				+9.5	92° 10'	+10.0	+19.5			BS				
239	0				5.1	-		-5.1		4408.2	T	0	0	662991	2426967
240	330		177° 50'	--	7.1	88° 20'	+9.6	+2.5		4415.8		-317	-93	662674	2426874
TP	483		180° 05' 09"	--	7.7	88° 20'	+14.0	+6.3		4419.6	TP	-457	-155	662534	2426812
TP	483				7.6	271° 40'	+14.0	+6.4			TP				
	434		46 28 10	+18.6	+12.0	91° -	+7.6	+19.6	4439.2		BS	-183	-394		
	434				+10.7	91° 10'	+8.8	+19.5			BS				
241	252		45 30	--	6.7	91° 30'	-6.6	-13.3		4425.9		+110	+227	662461	2426445
K	0				5.1	-		-5.1		4434.1	K	0	0	662351	2426418 mms.?
242	73		210 15	--	5.7	87° -	+3.8	-1.9		4437.3		-48	-55	662303	2426363
243	402		204 30	-	6.8	86° -	+28.0	+21.2		4460.4		-294	-275	662057	2426143

SURVEY NOTES-HIGH RESOLUTION DATA
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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
7-31-85		B. Cotamp		K. Greenfield		6834		KWA ✓		8		27			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASHINGTON		Mt. Bonaparte-15		WA.		OKANOGAN								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
									4439.2						
244	729		204° 10'	+18.6	9.0	86° 40'	+42.4	+33.4		4472.6		-535	-495	661,816	2425923
TP	967	965.4	204° 26' 12"	-	5.6	86° 40'	+56.2	+50.6		4489.8	TP	-706	-659	661,645	2425759
TP	967				8.4	86° 30'	+59.0	+50.6			TP				
	451	449.5	23° 51' 00"	-	+11.2	94° 40'	+36.7	+47.9	4537.7		BS	-332	-303		
	451				+9.9	94° 50'	+38.0	+47.9			BS				
245	359		22° 10'	+18.6	9.1	94° 50'	-30.2	-39.3		4498.4		+272	+234	661,585	2425690
246	35		6° 20'	-	6.0	94° -	-2.4	-8.4		4529.3		+32	+15	661,345	2425471
κ	0				5.1	-		-5.1		4532.6	κ	0	0	661,313	2425454
247	294		181° 50'	-	5.1	87° 10'	+14.5	+9.4		4547.1		-276	-103	661,037	2425353
248	621		176° 50'	-	5.0	86° 38'	+36.5	+31.5		4569.2		-599	-165	660,714	2425291
TP	770	768.6	177° 34' 09"	-	4.2	86° 30'	+47.0	+42.8		4580.5	TP	-738	-214	660,575	2425242
TP	770				4.1	273° 30'	+47.0	+42.9			TP				
	764	761.1	9° 12' 48"	+18.6	+1.7	95° -	+66.6	+68.3	4648.8		BS	-673	-355		
	764				+8.4	94° 30'	+59.9	+68.3			BS				
249	584		9° 20'	-	7.7	94° 30'	-45.8	-53.5		4595.3		+516	+274	660,418	2425161
250	254		8° 10'	-	5.6	94° 30'	-19.9	-25.5		4623.3		+227	+114	660,129	2425001
κ	0				5.1	-		-5.1		4643.7	κ	0	0	659,902	2424887
251	74		188° 30'	+18.6	5.0	88° 50'	+1.5	-3.5		4645.3		-66	-34	659,830	2424853
252	403		179° 50'	-	5.6	-		-5.6		4643.2		-382	-127	659,520	2424760
253	733		179° 10'	-	6.0	84	-3.7	-9.7		4639.1		-698	-224	659,204	2424663

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
7-31-85		B. Cotcamp		K. Greenfield		6834		KWG ✓		8		28			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASHINGTON		MT. BONAPARTE -15'		WA.		OKANOGAN								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
									4648.8						
254	1063		179° 45'	+18.6	9.5	-	-9.5		4639.3			-1009	-335	658,893	2424,552
255	1392		180° 10'	--	5.1	-	-5.1		4643.7			-1318	-448	658,584	2424,439
TP	1526		179° 29' 00"	-	5.8	-	-5.8		4643.0	TP		-1451	-474	658,451	2424,413
TP	1526				5.9	270° -	-5.9			TP					
	689	687.8	339° 21' 25"	+18.6	13.0	86° 40'	-40.1	-27.1	4615.9		BS	-687	+25		
	689			+13.0	273° 20'		-40.1	-27.1			BS				
256	495		338° 25'	--	8.2	86° 40'	+28.8	+20.6	4636.5			+494	-26	658,258	2424,412
257	165		338° 10'		6.5	84° 40'	+15.3	+8.8	4624.7			+165	-9	657,929	2424,429
π	0				5.1	-	-5.1		4610.8	π	0	0	0	657,764	2424,438
258	165		164° 35'		5.6	94° 40'	-13.4	-19.0	4596.9			-165	-9	657,599	2424,429
TP	238		166° 27' 22"		7.1	94° 40'	-19.4	-26.5	4589.4	TP		-236	-21	657,528	2424,417
TP	238				6.4	94° 50'	-20.1	-26.5			TP				
	395	394.0	13° 15' 36"		+4.1	86° -	-27.6	-23.5	4565.9		BS	-335	-208		
	395				+2.9	86° 10'	-26.4	-23.5			BS				
259	140		10° 50'		7.8	86° -	+9.8	+2.0	4567.9			+122	+69	657,315	2424,278
π	0				5.1	-	-5.1		4560.8	π	0	0	0	657,193	2424,209
260	188		175° 55'		4.7	92° -	-6.6	-11.3	4554.6			-182	-47	657,011	2424,162
261	517		171° 05'		4.2	92° -	-14.0	-22.2	4543.7			-510	-87	656,683	2424,122
TP	788		171° 55' 44"		6.4	92° -	-27.5	-33.9	4532.0	TP		-774	-144	656,419	2424,065
TP	788				6.3	268° -	-27.5	-33.8			TP				

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
7-31-85		B. Cotamp		K. Greenfield		6834		KUG ✓		8		29			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASHINGTON		Mt. Bonaparte-15'		WA.		OKANOGAN								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
										4532.0					
	638	635.9	3° 11' 22"	+18.6	9.1	85° 20'	-51.9	-42.8	4489.2		BS	-590	-236		
	638				7.2	85° 30'	-50.1	-42.9			BS				
262	580		3° 15'	-	7.4	85° 20'	+47.2	+39.8		4529.0		+538	+216	656367	2424045
263	250		2° 50'	-	7.7	84° 20'	+24.7	+17.0		4506.2		+233	+91	656062	2423920
π	0				5.1	-	-	-5.1		44841	π	0	0	655829	2423829
264	80		171° 30'	+18.6	5.1	96° -	-8.4	-13.5		4475.7		-79	-14	655750	2423815
265	402		154° 16'	-	6.0	93° 40'	-25.7	-31.7		4457.5		-399	+51	655430	2423880
266	732		154° 30'	-	7.2	92° 40'	-34.0	-41.2		4448.0		-727	+88	655102	2423917
TP	860	859.1	154° 39' 18"	-	6.7	92° 40'	-40.0	-46.7	4442.5		TP	-853	+101	654976	2423930
TP	860				9.2	92° 30'	-37.5	-46.7			TP				
	510		350° 29' 26"	+18.6	8.0	89° -	-8.9	-0.9	4441.6		BS	-504	-81		
	510				7.9	271° -	-8.9	-1.0			BS				
267	368		350° 45'	-	7.8	89° 10'	+4.5	-3.3		4438.3		+304	+50	654776	2423899
π	0				5.1	-	-	-5.1		4436.5	π	0	0	654472	2423849
268	22		167° -	-	5.4	89° 10'	+0.3	-5.1		4436.5		-22	-2	654450	2423847
269	352		177° -	-	10.8	88° 16'	+11.3	+0.5		4442.1		-339	-95	654133	2423754
TP	644		174° 50' 21"	-	5.1	88° 40'	+15.0	+9.9	4451.5		TP	-626	-150	653846	2423699
TP	644				6.9	88° 30'	+16.9	+10.0			TP				
	615		342° 06' 06"	+18.6	2.7	89° -	-10.7	-8.0	4443.5		BS	-615	-8		3.07646
	615				2.6	271° -	-10.7	-8.1			BS				

SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY			LINE NO.		PAGE		
7-31-85		B. Cotnam		K. Greenfield		6834		1506			8		30		
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Washington		Mt. Bonaparte-15		WA.		OKANOGAN								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
									4443.5						
270	582		342° 10'	+18.6	3.8	89° -	+10.2	+6.4		4449.9		+582	+8	653,823	2423,699
271	257		342° 40'	--	5.8	91° -	-4.5	-10.3		4433.2		+257	+6	653,498	2423,697
κ	0				5.1	-		-5.1		4438.4	κ	0	0	653,231	2423,691
272	72		167° -		4.3	89° -	+1.3	-3.0		4440.5		-72	-7	653,159	2423,684
#	239		168° 53' 55"	--	2.8	89° -	+4.2	+1.4		4444.9	#	-237	-31	652,994	2423,660
273	400		170° 22' 51"	--	8.0	87° 10'	+19.7	+11.7		4455.2	TP	-395	-62	652,836	2423,629
273	400			--	6.8	87° 20'	+18.6	+11.8			TP				
	780		352° 21' 14"	+18.6	10.7	92° 30'	+34.0	+44.7	4499.9		BS	-765	-148		
	780			--	10.6	267° 30'	34.0	+44.6			BS				
274	451		351° -	--	10.0	92° 30'	-19.7	-29.7		4470.2		+445	+75	652,516	2423,556
275	221		350° 30'	--	5.6	91° 30'	-3.2	-8.8		4491.1		+119	+19	652,190	2423,500
κ	0				5.1	-		-5.1		4494.8	κ	0	0	652,071	2423,481
276	208		209° 40'	+18.6	6.4	86° 30'	+12.7	+6.3		4506.2		-144	-150	651,929	2423,331
TP	358		209° 10' 32"	--	14.0	87° 20'	+16.7	+2.7		4502.6	TP	-240	-265	651,831	2423,216
TP	358			--	13.9	212° 40'	+16.7	+2.8			TP				
	820	816.2	7° 57' 26"	--	5.9	84° 30'	-78.6	-72.7	4429.9		BS	-730	-365		
	820			--	4.9	84° 34'	-77.6	-72.7			BS				
277	640		7° 40'	+18.6	6.3	84° 30'	+61.3	+55.0		4484.9		+574	+283	651,675	2423,134
278	310		7° 50'	--	6.2	85° 10'	+26.1	+19.9		4449.8		+278	+138	651,379	2422,989
κ	0				5.1	-		-5.1		4424.8	κ	0	0	651,101	2422,851

9-652,920 x-2423,635 Section line

121 B.G.C.

SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
7-31-85		B. Cotcamp		K. Greenfield		6834		KWG/ky		8		31			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Washington		Mt. Bonaparte-15		WA.		OKANOGAN								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
									4429.9						
279	23		141° 40'	+18.6	6.4	95° -	-2.0	-8.4		4421.5		-22	+8	651079	2422859
280	343		188° 15'	--	4.9	94° -	-23.9	-28.8		4401.1		-306	-155	650,295	242,696
TP	565		189° 22' 30"	--	10.5	93° -	-29.5	-40.0		4389.9	TP	-498	-265	650603	2422586
TP	565			--	16.4	27° -	-29.5	-39.9			TP				
	452		12 56 10	+18.6	5.8	87° 10'	-22.3	-16.5	4373.4		BS	-385	-236		
	452			--	7.1	87° -	-23.4	-16.5			BS				
281	351		14 -	--	11.4	87° -	+18.3	+6.9		4380.3		+296	+189	650,514	2422,539
π	0			--	5.1	-		-5.1		4368.3	π	0	0	650218	2422,350
282	88		67 35	--	11.9	100° -	-15.3	-27.2		4346.2		+6	+88	650,224	2422,438
283	299		172 10	--	6.4	98° -	-41.6	-48.0		4325.4		-294	-56	649,924	2422,294
TP	451		187 59 38	--	13.9	94° -	-31.5	-45.4		4328.0	TP	-402	-201	649,916	2422,149
TP	451	449.9		--	12.6	94° 10'	-32.8	-45.4			TP				
	418		44 49 51	+18.6	11.7	93° -	+21.8	+33.5	4361.5		BS	-187	-373		
	418			--	10.4	93° 10'	+28.1	+33.5			BS				
284	275		44 50	--	4.5	94 20	-20.8	-25.3		4336.2		+123	+246	649,752	2422,022
π	0			--	5.1	-		-5.1		4356.4	π	0	0	649,629	242,176
285	58		198° 45'	--	9.1	94 20	-4.4	-13.5		4348.0		-46	-35	649,583	242,141
TP	288		252 31 38	--	8.6	87° -	+5.0	-3.6		4357.9	TP	+6	-288	649,635	242,488
TP	288			--	8.5	271° -	+5.0	-3.5			TP				

SURVEY NOTES-HIGH RESOLUTION DATA
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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
7-31-85		B. Cotcamp		K. Greenfield		6834		KUT		8	32					
AREA		TOPO MAP	STATE	COUNTY	TWP	RANGE	PPM	PARTY MANAGER								
WASHINGTON		Mt. Bonaparte -15'	WA.	OKANOGAN				W. Cassidy								
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH +	EAST +	COORDINATES		REMARKS
												SOUTH -	WEST -	Y	X	
												LAT.	DEP.			
										4357.9						
	305	302.7	112° 37' 40"	+18.6	+12.1	97° -	+37.2	+49.3	4407.2		BS	+200	-228			
	305				+12.1	263° -	+37.2	+49.3		BS						
286	279		111° 10'	--	12.4	97° -	-34.0	-46.4		4360.8		-178	+214	649,657	2421474	
X	0				5.1	-		-5.1		4402.1	X	0	0	649,835	2421260	
287	45		274° 30'	--	5.0	86° 20'	+2.9	-2.1		4405.1		+18	-41	649,853	2421219	
H	302		260° 24' 40"	--	9.6	88° 30'	+7.9	-1.7		4405.5	H	+47	-298	649,882	2420,962	4-649,905x-2420,930 Fence line
288	368		261° 20'	--	13.4	88° 30'	+9.6	-3.8		4403.4		+63	-362	649,898	2420,898	
TP	422		260° 34' 25"	--	14.5	88° 30'	+11.0	-3.5		4403.7	TP	+67	-416	649,902	2420,844	
TP	422				13.3	88° 40'	+9.8	-3.5			TP					
	699		51° 11' 34"	+18.6	+2.8	-		+2.8	4406.5		BS	-241	-656			
	699				+6.3	TH	-3.5	+2.8		BS						
289	428		49° 35'	--	5.7	-		-5.7		4400.8		+159	+397	649,820	2420,885	
290	98		49° 50'	--	8.3	-		-8.3		4398.2		+36	+91	649,697	2420,277	
X	0				5.1	-		-5.1		4401.4	X	0	0	649,661	2420,188	OFF LINE
291	239		181° 10'	--	4.2	93° -	-12.5	-16.7		4389.8		-225	-81	649,436	2420,107	
292	560		176° 20'	--	7.5	93° 16'	-30.9	-38.4		4368.1		-541	-144	649,120	2420,044	
TP	636	635.0	178° 02' 50"	--	9.8	93° 10'	-35.1	-44.9		4361.6	TP	-608	-182	649,053	2420,006	
TP	636				11.6	93° -	-33.2	-44.8			TP					
	717	715.8	4° 32' 32"	+18.6	7.7	86° 40'	-41.7	-34.0	4327.6		BS	-658	-281			
	717				+9.7	86° 30'	-43.8	-34.1		BS						

SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
7-31-85		B. Cotcamp		K. Greenfield		6834		KWK		8		33			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASHINGTON		Mt. Bonaparte -15		WA.		OKANOGAN								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
									4327.6						
293	462		3° 25'	+18.6	5.5	86° 30'	+28.2	+22.7		4350.3		+428	+173	648,823	2419,898
294	134		358° 20'	--	5.4	86° 30'	+8.2	+2.8		4330.4		+128	+39	648,523	2419,764
π	0				5.1	—		-5.1		4322.5	π	0	0	648,395	2419,725
295	196		178° 45'	--	4.6	93° 50'	-13.1	-17.7		4309.9		-187	-58	648,208	2419,667
296	524		177° 35'	--	4.4	93° 50'	-35.0	-39.4		4288.2		-503	-146	647,892	2419,579
TP	567	565.7	174° 42' 34"	--	5.4	93° 50'	-37.9	-43.3		4284.3	TP	-551	-130	647,844	2419,595
TP	567				5.3	266° 10'	-37.9	-43.2			TP				
	749	747.5	327° 10' 47"	+18.6	5.5	86° 20'	-47.9	-42.4	4241.9		BS	-725	+184		
	749				+7.7	86° 10'	-50.1	-42.4			BS				
297	470		325° 15'	--	5.9	86° 10'	+31.4	+25.5		4267.4		+451	-131	647,570	2419,648
298	140		--	--	7.3	86° 10'	+9.4	+2.1		4244.0		+134	-39	647,253	2419,740
π	0				5.1	—		-5.1		4236.8	π	0	0	647,119	2419,779
H	83		160° 07' 33"	--	6.3	91° 10'	-1.7	-8.0		4233.9	H	-83	+2	647,036	2419,781
299	189		159° 20'	--	6.6	91° 10'	-3.8	-10.4		4231.5		-189	+7	646,930	2419,786
300	519		156° 45'	+18.6	5.0	90° 50'	-7.5	-12.5		4229.4		-517	+42	646,602	2419,821
301	849		156° 40'	--	10.1	90° 50'	-12.3	-22.4		4219.5		-846	+70	646,273	2419,849
TP	935		156° 48' 58"	--	13.5	90° 50'	-13.6	-27.1		4214.8	TP	-932	+75	646,187	2419,854
TP	935				13.4	269° 10'	-13.6	-27.0			TP				
	1226	1224.3	339° 24' 21"	--	+2.8	87°	-64.1	-61.3	4153.5		BS	-1224	+43		
	1226				+6.3	86° 50'	-67.6	-61.3			BS				

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SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
7-31-85		B. Cotcamp		K. Greenfield		6834		KOL		8		35			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
WASHINGTON		AENEAS Valley-15		WA.		OKANOGAN								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
										3975.1					
	1215		309° 11' 40"	+18.6	8.7	88° 50'	-24.7	-16.0	3959.1		BS	-1028	+647		
	1215				8.6	211° 10'	-24.7	-16.1		BS					
315	1167		309° 35'	-	8.2	88° 50'	+23.8	+15.6		3974.7		+992	-615	641764 2420265	
316	839		-	-	5.1	88° 50'	+17.1	+12.0		3976.1		+713	-442	641485 2420439	
317	510		-	-	5.2	88° 40'	+11.9	+6.7		3965.8		+433	-269	641205 2420611	
318	181		316° 15'	-	4.7	88° 40'	+4.2	-0.5		3958.6		+155	-94	640,927 2,420,786	
π	0				5.1	-		-5.1		3954.0	π	0	0	640,772 2420,880	
319	151		149° 05'	+18.6	6.1	90° 40'	-1.8	-7.9		3951.2		-148	+32	640,624 2420912	
320	481		-	-	6.1	90° 40'	-5.6	-11.7		3947.4		-470	+103	640,302 2420983	
TP	710		150° 37' 04"	-	3.9	90° 40'	-8.3	-12.2		3946.9	TP	-697	+133	640,075 2421,013	
TP	710				6.0	90° 30'	-6.2	-12.2			TP				
	524		344° 35' 46"	-	6.1	88° 20'	-15.2	-9.1	3937.8		BS	-523	-29		
	524				4.6	88° 30'	-13.7	-9.1		BS					
321	426		344° 25'	+18.6	5.3	88° 10'	+13.6	+8.3		3946.1		+425	+22	639,977 2421,006	
W	284		345° 20' 18"	-	3.1	88° 10'	+9.1	+6.0		3943.8	W	+283	+20	639,837 2421,004	
322	97		341° 35'	-	4.4	88° -	+3.4	-1.0		3936.8		+97	±0	639,649 2420944	
π	0				5.1	-		-5.1		3932.7	π	0	0	639,552 2420984	
323	234		143° 55'	-	4.1	91° 20'	-5.4	-9.5		3928.3		-223	+70	639,321 2421,054	
324	564		143° 46'	-	6.9	91° 20'	-13.1	-20.0		3917.8		-537	+172	639,015 2421,156	

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SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE					
7-31-85		B. Cotcamp		K. Greatfield		6834				8		36					
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER			
WASHINGTON		Aeneas Valley - 15'		WA.		OKANOGAN								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	NORTH + SOUTH - LAT.	EAST + WEST - DEP.	COORDINATES		REMARKS	
														Y	X		
									3937.8								
TP	769		142° 17' 33"	+18.6	7.1	91° 20'	-17.9	-25.0		3912.8	TP	-726	+252	638,826	2,421,236	TP - distance WAS	
TP	769				7.0	268° 40'	-17.9	-24.9			TP					CHANGED FROM 869'	
	658		295° 53' 04"	--	+1.3	88° 50'	-13.4	-12.1	3900.7		BS	-461	+469			TO 769' - STADIA	
	658				+3.2	88° 40'	-15.3	-12.1			BS					ERROR.	
325	537		294° 55'	--	7.1	88° 30'	+14.1	+7.0		3907.7		+370	-389	638,735	2,421,316		
324	207		--	--	8.0	88° 40'	+4.8	-3.2		3897.5		+143	-150	638,508	2,421,555		
π	0				5.1	--		-5.1		3895.6	π	0	0	638,365	2,421,705		
327	136		163° 45'	+18.6	5.9			-5.9		3894.8		-136	-6	638,229	2,421,699		
328	466		164° 20'	--	5.3			-5.3		3895.4		-465	-24	637,900	2,421,681		
329	796		--	--	9.6			-9.6		3891.1		-795	-41	637,570	2,421,664		
TP	960		164° 25' 09"	--	12.2			-12.2		3888.5	TP	-959	-51	637,406	2,421,654		
TP	960				12.1			-12.1			TP						
	949		356° 21' 26"	+18.6	8.6	88° 30'	-24.8	-16.2			BS	-917	-245				
	949				+5.8	88° 40'	-22.1	-16.3	38722		BS						
330	789		355° 20'	--	5.9	88° 40'	+18.4	+12.5		3884.7		+766	+190	637,255	2,421,599		
331	460		354° 30'	--	5.0	88° 40'	+10.7	+5.7		3877.9		+448	+104	636,937	2,421,513		
332	132		346° -	--	6.0	88° 40'	+3.1	-2.9		3869.3		+132	+11	636,621	2,421,420	E.O.L. Line # 8	
π	89		352° 16' 50"	--	6.7	88° 40'	+2.1	-4.6		3867.6	π	+87	+17	636,576	2,421,426	ILY - 636,560 x - 2,421,500 y - Inter.	
π	0				5.1	--		-5.1		3867.1	π	0	0	636,489	2,421,409		

