

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

PAGE 1 of 46

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE		
7-12-84		R. Trowbridge		B. Coteamo		6834		520		B.C.		1		
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		
Washington		Night Hawk		Washington		Okanogan						L. Davis		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
										1173.9				
B.S	1605		115°44'55"	+21.0	10.1	93°20'	+93.3	+103.4	1277.3		BS	+1167	-1098	Topm# V-282
B.S	"		"		0.0	216°40'	+93.3	+103.3			B.S		-2	EI. 1173.7 Y=724,395 X=2,289,710
1	1311		219°48'	--	6.4	89°00'	+22.9	+16.5		1293.8		+466	-1226	726,028 2,287,364
2	982		218°29'	--	8.1	89°20'	+17.1	+9.0		1286.3		+328	-926	725,890 2,287,684
3	653		217°32'	--	11.4	89°00'	+11.4	± 0		1277.3		+208	-619	725,770 2,287,991
4	327		216°46'	--	10.3	89°00'	+5.7	-4.6		1272.7		+67	-320	725,629 2,288,250
5	-	-	-		5.2	-	-	-5.2		1272.1	T	0	0	725,562 2,288,610
T.P. 6	326		48°11'34"	+21.0	3.0	90°-	-	-3.0		1274.3	T.P	+116	+305	725,678 2,288,910
T.P.	"				2.0	90°10'	-0.9	-2.9			TP		-2	
B.S	1953		220°59'13"	--	7.9	90°-	-	+7.9			BS	+917	+1724	
B.S	"		"		7.8	270°-	-	+7.8	1282.1		BS		-2	
7	1628		222°54'	--	6.7	90°-	-	-6.7		1275.4		-716	-1462	725,879 2,289,173
8	1306		225°46'	+21.0	6.3	90°-	-	-6.3		1275.8		-515	-1200	726,080 2,289,435
9	986		229°42'	--	10.3	T.H.	+4.9	-5.4		1276.7		-326	-931	726,269 2,289,704
10	660		233°43'	--	6.0	T.H.	+3.3	-2.7		1279.4		-174	-637	726,421 2,289,998
11	330		231°32'	--	8.0	88°30'	+8.6	+0.6		1282.7		-71	-322	726,524 2,290,313
Δ	158		240°40'14"	--	1.6	89°20'	+1.8	+0.2		1282.3		-23	-156	726,572 2,290,471
12 T	-		-		5.2	-	-	-5.2		1283.1	T	0	0	726,595 2,290,635

Night Hawk
Billfay Mtn

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE					
7-12-84		R. Trowbridge		B. Cotcamp		6834		B.P.		1		2					
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER			
Washington		Bullfrog Mtn 1/2		Washington		Okemogon								L. Davis			
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH - LAT.	EAST + WEST - DEP.	COORDINATES		REMARKS	
														Y	X		
									1282.1								
13	330		60°27'	+21.0	7.2	92°40'	-15.3	-22.5		1259.6		+49	+326	726,644	2,290,961		
14	658		65°26'	--	11.3	93°00'	-34.4	-45.7		1236.4		+41	+657	726,636	2,291,292		
15	988		66°52'	--	11.8	93°20'	-57.4	-69.2		1212.9		+37	+987	726,632	2,291,622		
	1176		64°59'10"	--	7.1	93°20'	-68.3	-75.4		1206.7	Δ	+82	+1171	726,677	2,291,806	726,630 x 2,291,800 T. Inter. (1207.3)	
16	1311		64°05'	--	8.9	93°-	-68.5	-77.4		1204.7		+112	+1306	726,707	2,291,941		
17	1628		60°29'	--	11.4	92°40'	-75.7	-87.1		1195.0		+241	+1610	726,836	2,292,245		
T.P.	1695		59°49'03"	--	11.3	92°40'	-78.8	-90.1		1192.0	T.P.	+270	+1671	726,865	2,292,301		
T.P.	"		"	--	11.1	92°20'	-78.8	-89.9			T.P.		-2				
B.S.	2223		233°00'25"	+21.0	4.5	B.H.	+11.1	+15.6			BS	+612	+2137				
B.S.	"		"	--	9.2	90°10'	+6.5	+15.7	1207.7		BS		-2				
18	1969		234°48'	--	12.6	B.H.	-9.8	-22.4		1185.3		-483	-1909	726,994	2,292,530		
19	1647		236°50'	--	10.2	B.H.	-8.2	-18.4		1189.3		-347	-1610	727,130	2,292,829		
20	1318		237°19'	--	12.5	B.H.	-6.6	-79.1		1188.6		-267	-1291	727,210	2,293,148		
Δ21	990		238°52'	--	8.2	90°50'	-14.4	-22.6		1185.1		-174	-975	727,303	2,293,464	Cr. X-ing	
22	660		"	--	9.1	90°50'	-9.6	-18.7		1189.0		-116	-650	727,361	2,293,785		
23	330		"	--	9.7	90°-		-9.7		1198.0		-58	-325	727,419	2,294,114		
24	-		-	--	-5.2			-5.2		1202.5	π	0	0	727,477	2,294,439		
25	330		56°26'	+21.0	10.4	90°-		-10.4		1197.3		+72	+322	727,549	2,294,761		
26	660		"	--	10.1	90°50'	-9.6	-19.7		1188.0		+144	+644	727,621	2,295,083		
Δ	794		52°33'41"	--	7.1	90°40'	-9.2	-16.3		1191.4	+	+225	+761	727,702	2,295,204	See Line	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
7-12-84		R. Traubridge		B. Cotcamp		6834		B.C.		1		3				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
Washington		Bullfrog Mtn 72		Washington		Okanogan								L. Davis		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH - LAT.	EAST + WEST - DEP.	COORDINATES		REMARKS
														Y	X	
									1207.7							
27	990		56°26'	+21.0	12.0	90°20'	-5.8	-17.8		1189.9		+215	+966	727.692	2295405	
28	1320		"	--	4.5	90°20'	-7.7	-12.2		1195.5		+287	+1288	727.764	2295727	
29	1650		"	--	8.8	90 -		-8.8		1198.9		+359	+1610	727.836	2296049	
30	1980		"	--	7.1	90 -		-7.1		1200.6		+431	+1933	727.908	2296372	
31	2308		56°27'32"	--	5.6	90 -		-5.6	-5.4	1202.3	TP	+501	+2253	727.978	2296690	
T.P.	"		"		5.3	270 -		-5.3			TP		-2			
B.S.	1320		241°02'49"	+21.0	8.1	89°20'	-15.4	-7.3	1195.0		BS	+183	+1307			
B.S.	"		"		8.0	278°40'	-15.4	-7.4			BS		-2			
32	990		242°03'	--	8.1	89°20'	+11.5	+3.4		1198.4		+120	-983	728.041	2297012	
33	660		"	--	10.2	89°20'	+7.7	-2.5		1192.5		-80	-655	728.081	2297340	
Δ	549		242°36'53"	--	10.0	89°20'	+6.4	-3.6		1191.4		-62	-545	728.099	2297450	Cr. X-ing
34	330		241°30'	--	8.1	89°20'	+3.8	-4.3		1190.7		-43	-327	728.118	2297668	
Δ	131		244°20'42"	--	5.2	89°20'	+1.5	-3.7		1191.3		-11	-131	728.150	2297864	
35	—		—		5.2	—		-5.2		1189.8	TP	0	0	728.161	2297995	
36	330		54°38'	+21.0	8.6	91°10'	-6.7	-15.3		1179.7		+82	+320	728.243	2298315	
37	660		54°49'	--	11.9	91°50'	-21.1	-33.0		1162.0		+162	+640	728.323	2298635	
38	990		54°57'	--	12.2	92° -	-34.5	-46.7		1148.3		+240	+960	728.401	2298955	
39	1318		56°57'	--	12.5	91°30'	-34.5	-47.0		1148.0		+275	+1289	728.436	2299284	
40	1646		58°31'	--	11.0	91° -	-28.7	-39.7		1155.3		+299	+1619	728.460	2299614	

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
7-12-84		R. Trowbridge		B. Cotcamp		6834		AD		BC		4				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
Washington		Bullfrog mtn. 7 1/2		Washington		Okanagon								L. Davis		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH - LAT.	EAST + WEST - DEP.	COORDINATES		REMARKS
														Y	X	
41	1975		58°29'	+21.0	110	90°50'	-28.7	-39.7	1195.0	1155.3		+360	+1942	728,521	2,299,937	
TP	2028		57°50'18"	--	14.5	90°30'	-17.7	-32.2	-32.1	1162.9	TP	+393	+1990	728,556	2,299,983	
TP	"		"	--	14.3	219°30'	-17.7	-32.0			TP	+2	-2			
BS	1617		262°24'53"	--	4.6	T.H.	-8.1	-3.5			BS	-375	+1573			
"	"		"	--	6.0	89°40'	-9.4	-3.4	1159.5		BS	+2	-2			
Δ	1496		261°44'44"	+21.0	5.7	90-	-5.7			1153.8	#	+330	-1459	728,513	2,300,095	Cr. X-ing
42	1321		262°05'	--	7.5	90-	-7.5			1152.0		+299	-1287	728,482	2,300,267	
43	990		"	--	8.7	90-	-8.7			1150.8		+224	-964	728,407	2,300,540	
44	660		"	--	7.2	90-	-7.2			1152.3		+149	-613	728,332	2,300,911	
45	330		264°19'	--	6.0	90-	-6.0			1153.5		+87	-318	728,270	2,301,236	
46X	-		-		5.2	-	-5.2			1154.3	X	0	0	728,183	2,301,554	
47	330		89°18'	+21.0	5.5	90-	-5.5			1154.0		-104	+313	728,079	2,301,867	
48	660		"	--	12.2	90-	-12.2			1147.3		-207	+627	727,976	2,302,181	
49	990		"	--	10.1	90°30'	-8.6	-18.7		1140.8		-311	+940	727,872	2,302,494	
Δ	1230		93°38'41"	-	10.9	90°30'	-10.7	-21.6		1137.9	#	-513	+1118	727,670	2,302,672	Cr. X-ing
TP	1220		94°41'41"	+20.5	7.7	90°40'	-14.2	-21.9		1137.6	TP	-519	+1104	727,666	2,302,561	
TP	"		"		4.2	90°50'	-17.7	-21.9			TP	+2	-2			

y = 728,490 x - 2,300,035

y = 727,615 x - 2,302,685

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 7-12-84	INSTRUMENT MAN A. Trowbridge	ROD MAN B. Cotcamp	PARTY NUMBER 6834	NOT CHECKED BY [Signature]	LINE NO. 1	PAGE 5
AREA Washington	TOPO MAP Bullfrog mtn. 7 1/2	STATE Washington	COUNTY Okanagan	TWP RANGE	PPM	PARTY MANAGER L. Davis

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS # TP	NORTH + SOUTH - LAT.	EAST + WEST - DEP.	COORDINATES		REMARKS
														Y	X	
										1137.6						
BS	856		272°34'02"	+20.5	10.5	89°20'	-10.0	+0.5	1138.0		BS	-335	+788			
"	"		"		10.3	270°40'	+10.0	+0.3	1137.4		BS	+2	-3			
50	834		270°24'	--	7.8	89°30'	+7.3	-0.5		1137.5		+298	-779	727,631	2302,663	
51	586		270°44'	--	8.7	89°30'	+5.1	-3.6		1134.4		+74	-581	727,407	2302,861	
52	256		"	--	6.9	89°30'	+2.2	-4.7		1133.3		+32	-254	727,365	2303,188	
TP											TP	0	0	727,333	2303,442	
53	73		72°36'	+20.5	5.3	89°30'	+0.6	-4.7		1133.3		-4	+73	727,329	2303,515	
54	403		"	--	4.8	90 -		-4.8		1133.2		-22	+402	727,311	2303,844	
55	733		"	--	7.9	T.H.	+3.7	-4.2		1133.8		-40	+732	727,293	2304,174	
56	1063		"	--	9.7	T.H.	+5.3	-4.4		1133.6		-57	+1061	727,276	2304,503	
57	1392		72°19'	--	11.4	T.H.	+7.0	-4.4		1133.6		-68	+1390	727,265	2304,832	
TP 58	1725		72°15'19"	--	3.5	90 -		-3.5		1134.5	TP	-83	+1723	727,252	2305,162	in Road
TP	"		"		12.2	T.H.	+8.6	-3.6			TP	+2	-3			
BS	662		271°45'00"	+20.5	3.9	90 -		+3.9	1138.5		BS	-251	+613			
"	"		"		7.4	T.H.	-3.3	+4.1			BS	+2	-3			
59	330		274°27'	--	6.7	T.H.	+1.7	-5.0		1133.5		+139	-299	727,142	2305,473	
TP 60					5.2			-5.2		1133.3	TP	0	0	727,003	2305,772	
61	330		112°38'	--	2.2	88°30'	+6.7	-0.5		1138.0		-226	+241	726,777	2306,013	
Δ	362		110°19'05"	--	7.2	88°50'	+7.4	+0.2		1138.7	#	-237	+274	726,766	2306,046	g-726,785 x-2306,115 CRAEK CROSSING
62	660		112°38'	--	8.5	87°50'	+24.9	+16.4		1154.9		-451	+482	726,552	2306,251	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE: 7-12-84
 INSTRUMENT MAN: R. Trowbridge
 ROD MAN: B. Cotcamp
 PARTY NUMBER: 6834
 NOTES CHECKED BY: B.C.
 LINE NO.: 1
 PAGE: 6
 AREA: Washington
 TOPO MAP: Bullfrog Mtn. 7 1/2
 STATE: Washington
 COUNTY: Okanogan
 TWP: [blank]
 RANGE: [blank]
 PPM: [blank]
 PARTY MANAGER: L. Davis

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH+ SOUTH - LAT.	EAST+ WEST - DEP.	COORDINATES		REMARKS
														Y	X	
									1138.5							
63	990		112° 38'	+20.5	7.6	87° 20'	+46.0	+38.4		1176.9		-677	+722	726.326	2301.494	
T.P. 64	1316		110° 17' 02"	+20.2	4.8	87° 40'	+53.6	+48.8	+48.9	1187.4	TP	-854	+1000	726.151	2301.769	
T.P.	"		"	"	4.6	272° 20'	+53.6	+49.0			TP	"	"	"	"	
BS	805		275° 36' 46"	"	+11.3	91° 20'	+18.7	+30.0	1217.4		BS	-350	+724			
"	"		"	"	+11.2	268° 40'	+18.7	+29.9			BS	"	"			
65	477		273° 19'	"	12.2	90° 30'	-6.9	-19.1		1198.3		+190	-437	725.993	2307.053	
66	150		265° 09'	"	7.0	90° 50'	-2.2	-9.2		1208.2		+40	-145	725.843	2307.345	
π	—		—								π	0	0	725.803	2307.490	
67	181		85° 59'	+20.2	5.9	87° 30'	+6.8	+0.9		1218.3		-50	+174	725.753	2307.664	
68	510		81° 49'	"	9.5	87° 30'	+19.3	+9.8		1227.2		-106	+499	725.697	2307.989	
69	823		87° 52'	"	8.3	88° 30'	+21.5	+13.2		1230.6		-255	+782	725.548	2308.272	
TP	970		89° 47' 55"	"	12.0	89° -	+16.9	+4.9			TP	-332	+911	725.473	2308.358	
TP	"		"	"	9.1	89° 10'	+14.1	+5.0		1222.4	TP	"	"			
BS	1454		264° 29' 59"	+20.2	+7.3	86° 10'	-97.2	-89.9	1132.5		BS	-368	+1403			Set up near
"	"		"	"	+7.2	203° 30'	-97.2	-90.0			BS	"	"			Guard rail
Δ	1297		264° 40' 21"	"	10.4	86° -	+90.5	+80.1		1212.6	Δ	+332	-1251	725.439	2308.547	Y - 725.530 X - 2308.575 T - intersect
70	1274		263° 53'	"	10.2	86° -	+88.7	+78.5		1211.0		+310	-1236	725.417	2308.562	
71	949		266° 00'	"	6.8	86° -	+66.0	+59.2		1191.7		+265	-911	725.372	2308.887	
72	621		262° 40'	"	9.6	86° -	+43.2	+33.6		1166.1		+138	-605	725.245	2309.193	
73	310		275° 54'	"	12.4	86° -	+21.6	+9.2		1141.7		+136	-278	725.243	2309.520	

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
7-12-84		R. Trowbridge		B. Cotcamp		6834		B.P.		1		7				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
Washington		Biltmore Mtn. 72		Washington		Okanogan								L. Davis		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
									1132.5							
Δ	44		323°47'53"	-20.2	7.1	86° -	+3.1	-4.0		1128.5		+42	-12	725,149	2,309,786	Cr. Xing
TP											TP	0	0	725,107	2,309,788	
74	21		51°24'	"	5.3	88°20'	+0.6	-4.7		1127.8		+7	+20	725,114	2,309,818	
75	346		65°36'	"	11.2	92° -	-12.1	-23.3		1109.2		+25	+345	725,132	2,310,143	
TP 76	675		62°27'41"	"	13.4	91°20'	-15.7	-29.1			TP	+86	+669	725,195	2,310,464	
TP	"		"	"	13.3	268°40'	-15.7	-29.0		1103.5	TP	"	-3			
BS	990		219°52'57"	+20.2	1.8	T.H.	-5.0	-3.2	1100.3		BS	+494	+858			
BS	"		"		+2.6	89°40'	-5.8	-3.2			BS	"	-3			
77	660		218°47'	"	7.9	89°20'	+7.7	-0.2		1100.1		-340	-566	725,351	2,310,753	
78	330		"	"	5.3	89°20'	+3.8	-1.5		1098.8		-170	-283	725,521	2,311,036	
79											TP	0	0	725,691	2,311,319	
80	329		38°51'	"	11.9	90° -		-11.9		1088.4		+169	+282	725,860	2,311,601	
81	655		45°25'	"	9.1	B.H.	-3.3	-12.4		1087.9		+270	+597	725,961	2,311,916	
82	944		57°26'	"	8.7	T.H.	+4.7	-4.0		1096.3		+204	+922	725,895	2,312,241	
83	1215		67°02'	"	10.8	89°00'	+21.2	+10.4		1110.7		+59	+1214	725,750	2,312,533	
84	1491		74°44'	"	6.9	89°00'	+26.0	+19.1		1119.4		-128	+1485	725,563	2,312,804	
85	1807		77°44'	+20.2	10.3	89° -	+31.5	+21.2		1121.5		-249	+1790	725,742	2,313,109	
Δ	1863		78°00'23"	"	4.1	88°52'00"	+36.8	+22.7		1123.0	Δ	-266	+1844	725,425	2,313,163	Δ int 1125.3
Δ	2085		79°06'53"	"	7.6	89° -	+36.4	+28.8		1129.1	Δ	-337	+2057	725,354	2,313,376	Cr. Xing
86	2132		79°28'	"	10.0	88°52'	+42.2	+32.2		1132.5		-358	+2102	725,333	2,313,421	7-725,410 X-2,313,375

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE: 7-12-84 INSTRUMENT MAN: R. Trowbridge ROD MAN: B. Cotcamp PARTY NUMBER: 6834 NOVELS CHECKED BY: B.C. LINE NO.: 1 PAGE: 8
 AREA: Washington TOPO MAP: Bullfrog Mtn. STATE: Washington COUNTY: Okanogan TWP: RANGE: PPM: PARTY MANAGER: L. Lewis

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	
									1100.3							
87	2427		83°21'	+20.2	7.9	88°50'	+49.4	+41.5		1141.8		-569	+2359	725,122	2313,678	
88	2719		81°53'	--	5.1	88°50'	+55.4	+50.3		1150.6		-799	+2599	724,892	2313,918	
89	3035		81°42'	--	10.9	88°50'	+61.8	+50.9		1151.2		-933	+2888	724,758	2314,207	
TP	3102		87°27'43"	--	13.0	88°52'	+61.4	+48.4		1148.7	TP	-941	+2955	724,752	2314,271	
"	"		"	--	13.1	27°08'	+61.4	+48.3			TP	+2	-3			
BS	347		235°48'42"	+20.2	1.7	86°30'	-21.2	-19.5	1129.2		BS	+84	+336			
BS	"		"	--	1.6	27°30'	-21.2	-19.6			BS	+2	-3			
90	91		219°41'51"	--	9.7	84°20'	+8.9	-0.8		1128.4		-46	-79	724,792	2314,525	
B.M.	91		219°41'51"	--	9.7	84°20'	+8.9	-0.8		1128.4		-45	-78	724,793	2314,526	4-724,880 x-2314,515 creek crossing
TP											TP	0	0	724,838	2314,604	
91	236		28°41'	+20.2	9.8	90°	-	-9.8		1119.4		+155	+178	724,993	2314,782	
92	566		30°39'	--	10.8	90°	-	-10.8		1118.4		+357	+439	725,195	2315,043	
93	896		32°28'	--	10.8	90°	-	-10.8		1118.4		+543	+712	725,381	2315,316	
TP 94	1219		31°06'40"	--	7.6	90°	-	-7.6		1121.6	TP	+762	+951	725,602	2315,552	
TP	"		"	--	3.7	T.H.	+6.1	-7.6			TP	+2	-3			
BS	1751		218°53'41"	+20.2	1.7	88°46'	-37.7	+36.0			BS	+899	+1502			
BS	"		"	--	1.6	88°36'	-42.8	-36.2	1085.5		BS	+2	-3			
Δ	1621		222°15'40"	--	7.5	88°20'	+47.1	+39.6		1125.1	Δ	-749	-1437	725,754	2315,614	Cr. X-ing
95	1502		226°09'	--	9.9	87°50'	+56.7	+46.8		1132.3		-603	-1376	725,900	2315,675	
96	1288		236°18'	--	11.1	86°40'	+74.8	+63.7		1149.2		-301	-1252	726,202	2315,799	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE: 5-12-84 INSTRUMENT MAN: R. Trowbridge ROB MAN: B. Cotcamp PARTY NUMBER: 46834 NOTES CHECKED BY: B.C. LINE NO.: 1 PAGE: 9
 AREA: Washington TOPO MAP: Bullfrog mtn. 1/2 STATE: Washington COUNTY: Okanogan TWP: RANGE: PPM: PARTY MANAGER: L. Davis

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH - LAT.	EAST + WEST - DEP.	COORDINATES		REMARKS	
														Y	X		
									1085.5								
97	1849		247°33'	+20.2	9.0	85°40'	+79.0	+70.0		1155.5		-41	-1048	726,462	2316,003		
98	901		264°58'	--	9.1	85°-	+78.2	+69.1		1154.6		+236	-870	726,739	2316,181		
99	657		280°23'	--	9.9	84°-	+68.3	+58.4		1143.9		+334	-566	726,837	2316,185		
B.M.	480		294°16'35"	--	5.0	85°-	+41.8	+36.8		1122.3	Bm	+335	-341	726,838	2316,710	4-726,850 x - 2,316,730 u.s. o. of Interior	
100	448		305°48'	--	10.6	85°-	+38.9	+28.3		1113.8		+371	-251	726,874	2316,800		
101	138		285°18'	--	9.8	85°-	+12.0	+2.2		1087.7		+80	-112	726,583	2316,939		
A											A	0	0	726,503	2317,051		
102	197		64°21'	+20.2	8.2	90°40'	-2.3	-10.5		1075.0		+19	+196	726,522	2317,247		
103	519		55°01'	--	9.3	90°40'	-6.0	-15.3		1070.2		+132	+502	726,635	2317,553		
104	840		60°25'	--	10.4	90°-		-10.4		1075.1		+137	+829	726,640	2317,880		
105	1141		68°16'	--	5.4	T.H.	+5.7	+0.3		1085.8		+31	+1141	726,534	2318,192		
106	1437		74°28'	--	11.6	88°30'	+29.3	+17.7		1103.2		-117	+1432	726,386	2318,483		
107	1673		82°46'00"	--	5.1	88°40'	+38.9	+33.8			TP	-375	+1630	726,130	2318,678		
TD	"		"		5.0	27°20'	+38.9	+33.9		1119.4	TP	+2	-3				
BS	2258		352°48'46"	+20.2	12.9	91°30'	+59.1	+72.0	+719		BS	-2199	-508				
BS	"		"		12.7	28°30'	+59.1	+71.8	1191.3		BS	"	-3				
*Δ	2114		356°43'15"	--	6.9	91°40'	-61.5	-68.4		1122.9	Δ	+2022	+615	725,954	2318,782	4-725,990 x - 2,318,810 T - intersect	
108	2006		358°31'	--	11.4	91°30'	-52.5	-63.9		1121.4		+1900	+644	725,832	2318,811		
109	1692		01°18'	--	9.7	90°30'	-44.3	-54.0		1137.3		+1574	+620	725,506	2318,787		
110	1368		03°29'	--	10.0	91°50'	-43.7	-53.7		1132.6		+1253	+550	725,185	2318,717		

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 7-12-84	INSTRUMENT MAN R. Trowbridge	ROD MAN B. Cotcamp	PARTY NUMBER 6834	NOTES CHECKED BY R.T.	LINE NO. 1	PAGE 10
AREA Washington	TOPO MAP Bullfrog Mtn. 7 1/2	STATE Washington	COUNTY Okanogan	TWP RANGE	PPM	PARTY MANAGER L. Davis

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS
												LAT.	DEP.	Y	X			
111	1042		01°20'	+20.2	11.8	92°	-36.3	-48.1		1143.2		+969	+382	724,901	2318,549			
112	712		01°20'	"	8.9	92°	-24.8	-33.5		1157.8		+662	+261	724,594	2318,428			
113	382		"	"	7.9	92°	-13.3	-21.2		1170.1		+355	+140	724,287	2318,307			
114	51		07°	"	6.7	89°20'	-0.6	-7.3		1184.0		+45	+23	723,977	2318,190			
TP											TP	0	0	723,932	2318,167			
115	280		158°56'	+20.2	8.3	88°30'	+7.3	-1.0		1190.3		-280	+4	723,652	2318,171			
116	609		154°53'	"	7.9	88°30'	+15.9	+8.0		1199.3		-607	+52	723,325	2318,219			
117	934		151°05'	"	7.7	88°	+32.6	+24.9		1216.2		-923	+142	723,009	2318,309			
TP	1139		147°58'24"	+20.6	14.1	87°30'	+49.7	+35.6			TP	-1115	+225	722,817	2318,390			
"	"		"	"	14.0	272°30'	+49.7	+35.7		1227.0	TP		-2					

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE: 7-13-84 INSTRUMENT MAN: B. Trowbridge ROD MAN: B. Cotcamp PARTY NUMBER: 6834 NOTES CHECKED BY: R.T. LINE NO.: 1 PAGE: 11
 AREA: Washington TOPO MAP: Bullfrog Mtn. 1/2 (DOWNS) STATE: Washington COUNTY: Okanogan TWP: RANGE: PPM: PARTY MANAGER: L. Davis

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH - LAT.	EAST + WEST - DEP.	COORDINATES		REMARKS
														Y	X	
B.S	2814		283°39'31"	+20.6	9.7	91°20'	+65.5	+75.2			BS	-1584	+2325			
"	"		"	"	9.8	268°40'	+65.5	+75.3	1302.3		BS		-2			
118	2686		284°27'	"	12.2	91°10'	-54.7	-66.9		1235.4		+1543	-2199	722.776	2318514	
119	2382		287°18'	"	11.9	91°50'	-34.6	-46.5		1255.8		+1463	-1880	722.696	2318833	
120	2058		288°56'	"	11.0	90°25'	-15.0	-26.0		1276.3		+1310	-1587	722.543	2319126	
121	1787		294°13'	+20.6	8.6	90°		-8.6		1293.7		+1240	-1268	722.493	2319445	
Δ	1713		300°32'52"	"	2.7	90°		-2.7		1299.6	A	+1334	-1075	722.567	2319638	722.515 x -2.319,605 Cr. X-ing
122	1589		301°57'	"	9.6	T.H.	+7.9	-1.7		1300.6		+1261	-966	722.494	2319747	
123	1259		301°56'	"	7.0	T.H.	+6.3	-0.7		1301.6		+999	-766	722.232	2319947	
124	944		306°26'	"	6.6	90°		-6.6		1295.7		+792	-514	722.025	2320199	Bullfrog Mtn
125	646		316°42'	"	11.0	B.H.	-3.2	-14.2		1288.1		+596	-249	721.829	2320464	Oroville 1/2
126	330		325°29'	"	11.3	90°40'	-3.8	-15.1		1287.2		+320	-79	721.553	2320634	
TP					5.2			-5.2		1297.1	TP	0	0	721.233	2320713	
128	330		133°27'	+20.6	6.8	86°20'	+21.1	+14.3		1316.6		-297	+144	720.936	2320857	720.810 x -2.320,985
Δ	451		128°30'01"	"	8.2	86°20'	+28.8	+20.6		1322.9	A	-386	+231	720.847	2320944	Int.
129	657		128°43'	"	9.4	86°20'	+41.9	+32.5		1334.8		-565	+335	720.668	2321048	
130	986		130°43'	"	11.3	86°20'	+62.9	+51.6		1353.9		-865	+473	720.368	2321186	
T.P	1112		128°37'07"	"	11.0	86°20'	+71.1	+60.1			TP	-953	+568	720.280	2321279	
"	"		"	"	10.9	223°40'	+71.1	+60.2		1362.5	TP		-2			

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
7-13-84		R. Trowbridge		B. Cotcamp		6834		R.T.		1		12				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
Washington		Oroville 75		Washington		Okanogan								L. Davis		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
BS	953		256°38'15"	+20.6	+13.7	93°20'	+55.4	+19.1			BS	-120	+744			
"	"		"		+13.9	26°40'	+55.4	+19.3	+169.2	1431.7	BS		-3			
131	763		254°10'	--	11.9	93°10'	-42.1	-54.0		1377.7		+63	-760	720,223	2321461	
Δ	442		256°18'36"	--	11.5	92°10'	-16.7	-28.2		1403.5	Δ	+53	-439	720,213	2321782	See line
132	433		255°15'	--	11.1	92°10'	-16.4	-27.5		1404.2		+44	-431	720,204	2321790	
133	106		245°35'	--	9.4	90°-		-9.4		1422.3		-7	-106	720,153	2322115	
Δ	27		180°04'32"	--	6.2	90°-		-6.2		1425.5	Δ	-25	-10	720,135	2322210	Int. (438)
TA											TA	0	0	720,160	2322220	
134	242		106°30'	+20.6	6.1	90°-		-6.1		1425.6		-146	+193	720,014	2322413	
135	568		103°52'	--	9.9	91°-	-9.9	-19.8		1411.9		-321	+468	719,839	2322188	
136	851		117°32'	--	11.3	91°40'	-24.7	-36.0		1395.7		-631	+568	719,526	2322788	
T.P.	877		121°29'31"	--	13.9	91°40'	-25.5	-39.4			TP	-692	+539	719,468	2322759	
"	"		"		13.8	268°20'	-25.5	-39.3		1392.4	TP					
B.S.	1604		311°17'19"	+20.6	+5.1	86°40'	-43.3	-88.2			BS	-1412	+755			
"	"		"		+9.8	86°30'	-97.9	-88.1	+1304.3		BS					
137	1322		310°32'	--	9.1	86°30'	+80.5	+71.4		1375.7		+1158	-638	719,214	2322876	
138	990		"	--	6.0	87°-	+51.7	+45.7		1350.0		+867	-478	718,923	2323036	
139	660		"	--	11.3	87°-	+34.5	+23.2		1327.5		+578	-319	718,634	2323195	
140	330		"	--	6.8	88°-	+11.5	+4.7		1309.0		+289	-159	718,345	2323355	
141					5.2			-5.2		1299.1	TA	0	0	718,056	2323514	

720,210 x = 2321,740
See line
720,135 x = 2322,210
Int. (438)
4000' x = 2322,210
coll. x-73

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 7-13-84	INSTRUMENT MAN R. Crowbridge	ROD-MAN B. Cotcamp	PARTY NUMBER 6834	NOTES CHECKED BY R.T. 20	LINE NO. 1	PAGE 13
AREA Washington	TOPO MAP Oroville 7 1/2	STATE Washington	COUNTY Okanagan	TWP	RANGE	PPM
				PARTY MANAGER L. Davis		

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH - LAT.	EAST + WEST - DEP.	COORDINATES		REMARKS
														Y	X	
									1304.3							
142	330		121°35'	+20.6	12.3	93°10'	-18.2	-30.5		1273.8		-261	+202	717.795	2323716	
143	660		"	--	12.7	93°20'	-38.3	-51.0		1253.3		-521	+405	717.535	2323919	
144	990		"	--	9.7	92°50'	-48.9	-58.6		1245.7		-782	+607	717.274	2324121	
T.P.	1134		119°11'36"	--	15.0	92°20'	-46.2	-61.2		1243.1	TP	-865	+731	717.191	2324245	
"	"		"		11.7	92°30'	-49.5	-61.2			TP					
BS	1982		290°05'23"	+20.6	7.5	88°30'	-51.9	-44.4			BS	-1292	+1502			
"	"		"		7.6	27°30'	-51.9	-44.3	1198.8		BS					
145	1802		289°55'	--	6.8	88°30'	+47.2	+40.4		1239.2		+1171	-1370	717.070	2324377	
Δ	1531		290°30'37"	--	8.2	88°20'	+44.5	+36.3		1235.1	Δ	+1006	-1153	716.965	2324544	Int. $y=716.715, x=2324.600$
146	1472		290°16'	--	7.9	88°20'	+42.8	+34.9		1233.7		+963	-1113	716.862	2324634	
147	1142		"	--	6.2	89°-	+19.9	+13.7		1212.5		+747	-864	716.740	2324863	Cr. X-ing
148Δ	812		"	+20.6	7.9	90°-		-7.9		1190.9		+531	-614	716.430	2325133	
149	482		"	--	10.1	90°-		-10.1		1188.7		+315	-365	716.214	2325382	
150	154		"	--	6.7	90°-		-6.7		1192.1		+101	-116	716.000	2325631	
⊥	—		—		—	—					⊥	0	0	715.899	2325747	
Δ	14		10°48'31"	--	5.0	90°-		-5.0		1193.8	Δ	+12	+7	715.911	2325754	$y=715.900, x=2325.715$ Intersect
151	172		89°27'	--	5.3	90°-		-5.3		1193.5		-59	+162	715.840	2325909	
152	499		80°40'	--	11.1	90°-		-11.1		1187.7		-97	+489	715.802	2326236	
153	828		79°53'	--	9.3	B.H.	-4.1	-13.4		1185.4		-151	+814	715.748	2326561	
154	1161		79°44'	--	8.7	90°0'	-6.8	-15.5		1183.3		-208	+1142	715.691	2326889	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE: 7-13-84
 INSTRUMENT MAN: R. Traubricke
 ROD MAN: B. Cotcamp
 PARTY NUMBER: 6834
 NOTES CHECKED BY: R.T.
 LINE NO.: 1
 PAGE: 14
 AREA: Washington
 TOPO MAP: Orville 7 1/2
 STATE: Washington
 COUNTY: Okanogan
 TWP: [blank]
 RANGE: [blank]
 PPM: [blank]
 PARTY MANAGER: L. Davis

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH - LAT.	EAST + WEST - DEP.	COORDINATES		REMARKS
														Y	X	
									1198.8							
155	1449		87°34'	+20.6	9.8	90°40'	-16.9	-26.7		1172.1		-452	+1377	715.447	2,327,124	
TP	1684		92°06'34"	+20.3	14.4	90°40'	-19.6	-34.0		1164.8	TP	-642	+1557	715.257	2,327,304	
"	"		"		4.7	289°00'	-29.4	-34.1			TP					
BS	878		270°07'35"	+20.3	13.3	85°10'	-74.0	-60.7	1104.1		BS	-305	+820			
"	"		"		10.7	274°40'	-71.4	-60.7			BS					
156	806		270°14'	--	8.5	85°20'	+65.4	+56.9		1161.0		+283	-755	715.235	2,327,369	
157	481		270°49'	--	8.4	85°	+41.8	+33.4		1137.5		+173	-449	715.125	2,327,625	
158	155		"	--	7.0	83°30'	+17.4	+10.4		1114.5		+56	-145	715.008	2,327,979	
Δ	15		343°52'48"	--	3.6	90°		-3.6		1100.5		+15	+1	714,967	2,328,125	714,955 x -2,328,075
X											X	0	0	714,952	2,328,124	
159	177		80°41'	+20.3	11.9	90°50'	-2.6	-14.5		1089.6		-34	+174	714,918	2,328,298	
160	506		77°35'	--	10.4	93°20'	-29.4	-39.8		1064.3		-69	+501	714,883	2,328,625	
161	828		82°00'	--	12.0	93°20'	-48.1	-60.1		1044.0		-176	+809	714,776	2,328,933	
162	1152		80°31'	--	11.5	93°10'	-63.5	-75.0		1029.1		-216	+1132	714,736	2,329,256	
Δ	1294		80°23'31"	+20.3	12.6	92°40'	-60.2	-72.8		1031.3	Δ	-240	+1270	714,712	2,329,344	714,726 x -2,329,370
163	1458		85°15'	--	8.4	92°40'	-67.8	-76.2		1027.9		-391	+1405	714,561	2,329,529	
164	1706		92°40'	--	10.3	92°10'	-64.5	-74.8		1029.3		-666	+1571	714,286	2,329,695	
165	2031		94°15'	--	12.4	91°50'	-65.0	-77.4		1026.7		-844	+1847	714,108	2,329,971	
TP	2153		94°27'58"	--	8.0	91°50'	-68.9	-76.9		1027.2	TP	-901	+1954	714,051	2,330,076	
"	"		"		14.3	282°20'	-62.6	-76.9			TP					

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	7-13-84	INSTRUMENT MAN	R. Towbridge	ROB. MAN	B. Cotcamp	PARTY NUMBER	6834	NOTES CHECKED BY	R.T. XU	LINE NO.	1	PAGE	15
AREA	Washington	TOPO MAP	Croville 1/2	STATE	Washington	COUNTY	Okanogan	TWP		RANGE		PPM	
										PARTY MANAGER	L. Davis		

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH - LAT.	EAST + WEST - DEP.	COORDINATES		REMARKS
														Y	X	
BS	1198		291°34'06"	+20.3°	12.8	89-	-20.9	-8.1	1019.1		BS	-874	+819			
"	"		"		12.7	271-	-20.9	-8.2			BS					
166	988		296°47'	--	7.1	89°20'	+11.5	+4.4		1023.5		+724	-673	713.901	2,330,224	
167	659		"	--	11.2	89°20'	+7.7	-3.5		1015.6		+483	-449	713.660	2,330,448	
Δ	554		296°36'15"	--	11.6	89°20'	+6.4	-5.2		1013.9	41	+405	-378	713.582	2,330,519	4 - 113,600 x - 2,330,505 41 - Intersect
168	329		292°07'	--	9.8	89°20'	+3.8	-6.0		1013.1		+222	-243	713.399	2,330,654	
Δ	195		293°41'48"	--	8.0	89°20'	+2.3	-5.7		1013.4	Δ	+135	-140	713.312	2,330,757	4 - 113,510 x - 2,330,740 41 - Intersect
169	-		-		-5.2	-	-	-5.2		1013.9	Δ	0	0	713.177	2,330,897	
170	330		107°33'	+20.3°	7.8	89-	+5.8	-2.0		1017.1		-202	+261	712.975	2,331,156	
171	658		104°11'	--	10.3	89-	+11.5	+1.2		1020.3		-373	+542	712.804	2,331,439	
172	988		105°48'	--	12.9	89-	+17.2	+4.3		1023.4		-582	+798	712.595	2,331,695	
173	1315		105°20'54"	--	5.5	89°30'	+11.5	+6.0		1025.1	TP	-766	+1069	712,411	2,331,766	
T.P.	"		"		5.5	270°30'	+11.5	+6.0			TP					
BS	845		288°58'07"	--	+9.9	90-		+9.9	10350		BS	-535	+654			
"	"		"		9.8	270-		+9.8			BS					
Δ	822		288°26'39"	+20.3°	9.7	90-		-9.7		1025.3	Δ	+514	-641	712,390	2,331,979	4 - 112,900 x - 2,331,995 41 - Intersect
174	513		288°20'	--	8.7	90-		-8.7		1026.3		+320	-401	712,196	2,332,219	
175	183		"	--	6.0	T.H.	+0.9	-5.1		1029.9		+114	-143	711,990	2,332,477	
Δ	147		293°21'	--	4.6	90-		-4.6		1030.4	Δ	+101	-106	711,977	2,332,514	4 - 112,000 x - 2,332,495 41 - Intersect
π	-		-		-	-		-			π	0	0	711,876	2,332,620	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE					
7-13-84		R. Trowbridge		B. Cotcamp		6834		RN		1		16					
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER			
Washington		Oroville 7 1/2		Washington		Okanagan								L. Davis			
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH - LAT.	EAST + WEST - DEP.	COORDINATES		REMARKS	
														Y	X		
									1035.0								
176	148		112°15'	+20.3	7.2	90-		-7.2		1027.8		-100	+109	711,776	2,332,729		
177	478		"	--	12.2	91°20'	-11.1	-23.3		1011.7		-323	+352	711,553	2,332,972		
A	738		114°24'53"	--	11.0	91°20'	-17.2	-28.2		1006.8	Δ	-519	+524	711,357	2,333,144	Int.	y=711,350 x=2,333,105
178	807		114°52'	--	8.9	91°20'	-18.8	-27.7		1007.3		-572	+569	711,304	2,333,189		
T.P.	1067		113°31'37"	--	11.0	90°50'	-15.5	-26.5		1008.5	TP	-739	+770	711,137	2,333,390		
"	"		"	--	14.2	90°40'	-12.4	-26.6			TP						
BS	925		251°07'49"	+20.3	4.6	88°50'	-18.8	-14.2	9943		BS	-23	+925				
"	"		"	--	1.9	89°-	-16.1	-14.2			BS						
179	871		250°33'	--	7.2	88°40'	+20.3	+13.1		1007.4		+13	-871	711,127	2,333,444		
180	539		249°51'	--	10.0	88°40'	+12.5	+2.5		996.8		+1	-539	711,115	2,333,776	Int. #1	y=711,095 x=2,333,700
A	365		248°03'33"	--	9.2	89°-	+6.4	-2.8		991.5	A	-10	-365	711,104	2,333,900	Int. #1	
181	218		249°13'	--	9.1	89°-	+3.8	-5.3		989.0		-2	-218	711,112	2,334,097		
X											X	0	0	711,114	2,334,315		
182	106		80°32'	+20.3	11.2	90-		-11.2		983.1		-20	+104	711,094	2,334,419		
183	413		79°40'	--	11.8	B.H.	-2.1	-13.9		980.4		-71	+407	711,043	2,334,722		
184	717		68°14'	--	10.2	90°20'	-4.2	-14.4		979.9		+18	+717	711,132	2,335,032		
T.P.	841		69°57'58"	--	13.5	90-		-13.5		980.8	TP	-4	+841	711,110	2,335,156		
"	"				13.5	270-		-13.5			TP						

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
7-13-84		R. Towbridge		B. Cotcamp		6834		RT.		1		17				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
Washington		Oroville 7 1/2		Washington		Okangon								L. Davis		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH - LAT.	EAST + WEST - DEP.	COORDINATES Y X		REMARKS
BS	537		278°24'18"	+20.3	+4.2	83°50'	-57.7	-43.5	937.3		BS	-256	+468			
"	"		"		+4.2	27°10'	-57.7	-43.5			BS					
185	330		274°58'	--	8.4	83°10'	+39.3	+30.9		968.2		+141	-298	710,995	2335,326	
186	—		—	--	5.2	—	—	-5.2		932.1	X	0	0	710,854	2335,624	
A	50		71°47'37"	--	7.1	90-	—	-9.1		928.2		-2	+50	710,852	2335,674	1-710,885 x -2335,630 4 way
T.P.	183		17°14'12"	--	5.7	84-	+19.1	+13.4		950.7	TP	+144	+111	710,998	2335,734	
"	"		"		5.2	84°10'	+18.6	+13.4			TP					
BS	212		195°03'08"	+20.3	+9.0	86°50'	-11.7	-2.7	948.0		BS	+173	+122			
"	"		"		+11.95	86°10'	-14.2	-2.7			BS					
187	102		201°52'	--	8.0	84-	+10.0	+2.7		950.7		-76	-68	711,095	2335,789	
X	—		—		—	—	—	—			X	0	0	711,171	2335,857	
188	231		96°16'	--	7.8	91°10'	-4.7	-12.5		935.5		-103	+207	711,068	2336,064	
A	343		94°13'28"	--	7.4	91°10'	-7.0	-14.4		933.6	X	-142	+312	711,029	2336,169	1-711,020 x -2,336,135 4 way enter
189	361		96°16'	--	12.5	91°10'	-11.4	-23.9		924.1		-251	+502	710,920	2336,354	
190	891		96°16'	--	12.2	91°10'	-18.1	-30.3		917.7		-398	+797	710,773	2336,694	
191	1220		95°58'53"	--	10.9	90°50'	-17.7	-28.6		919.5	TP	-540	+1094	710,631	2336,951	
T.P.	"		"		10.7	26°10'	-17.7	-28.4			TP					
BS	951		276°40'01"	+20.3	4.1	90-	—	+4.1	923.6		BS	-431	+848			
BS	"		"		8.8	T.H.	-4.8	+4.0			BS					

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROB. MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE					
7-13-84		R. Trowbridge		B. Cotcamp		6834		RD		RT		18					
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER			
Washington		Oroville 7/2		Washington		Okanogan								L. Davis			
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	NORTH + SOUTH - LAT.	EAST + WEST - DEP.	COORDINATES		REMARKS	
														Y	X		
									923.6								
192	628		273°38'	+20.3	6.0	90-		-6.0		917.6		+255	-574	710,455	2337225		
193	330		262°02'	--	7.4	T.H.	+1.7	-5.7		917.9		+70	-322	710,270	2337477		
194					5.2			-5.2		918.4	X	0	0	710,200	2337799		
195	328		91°22'	--	5.6	90-		-5.6		918.0		-121	+305	710,079	2338104		
Δ	347		89°12'25"	--	5.5	90-		-5.5		918.1	Δ	-116	+327	710,084	2338126	4-way intersect	
F.P.	381		81°26'30"	--	6.0	90		-6.0		917.6	TP	-78	+373	710,122	2338172		
11	"		"		7.9	T.H.	+1.9	-6.0			TP						
BS	2198		176°46'55"	+20.3	13.4	90°10'	+7.8	+21.2			BS	+2519	+793				
11	"		"		13.1	26°30'	+7.8	+20.9	21.1	938.7	BS						
196	2473		176°22'	--	9.0	B.H.	-12.4	-21.4		917.3		-2369	-709	710,332	2338252		
197	2143		"		8.9	B.H.	-10.7	-19.6		919.1		-2053	-615	710,648	2338350		
Δ	2037		176°42'36"	--	9.3	B.H.	-10.2	-19.5		919.2	H	-1948	-596	710,753	2338369	4-way intersect	
198	1813		176°22'	--	8.5	B.H.	-9.1	-17.6		921.7		-1737	-520	710,964	2338445		
199	1483		"	+20.3	7.6	B.H.	-7.4	-15.0		923.7		-1421	-425	711,286	2338540		
200	1153		"	--	7.4	B.H.	-5.8	-13.2		925.5		-1105	-331	711,596	2338634		
201	823		"	--	10.9	90-		-10.9		927.8		-788	-236	711,913	2338729		
202	493		"	--	8.1	90-		-8.1		930.6		-472	-141	712,229	2338824		
203	163		"	--	6.2	90-		-6.2		932.5		-156	-47	712,545	2338918		
Δ											Δ	0	0	712,701	2338965	4-way	
Δ	55		221°55'41"	--	5.1	90-		-5.1		933.6	Δ	-26	-49	712,675	2338916	T.B.M. EL. = 933.6	

SURVEY NOTES-HIGH RESOLUTION DATA

GEQ-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
7-14-84		R. Trowbridge		B. Cotcamp		6834		R.T. W		1		20				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
Washington				Washington		Okanogan								L. Davis		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
										974.7				712,757	2,341,519	
B.S	2260	2259.0	249°02'14"	+20.3	+9.9	91°40'	+65.7	+75.6	1050.3		BS	+26	+2259			
"	"		"		+9.9	268°20'	+65.7	+75.6		BS	"	"	"	"		
212	1979		248°45'	--	11.4	91°40'	-57.5	-68.9		981.4		-33	-1979	712,751	2,341,798	
213	1650		"	--	11.3	91°40'	-48.0	-59.3		991.0		-27	-1650	712,757	2,342,127	
214	1320		"	--	10.2	91°40'	-38.4	-48.6		1001.7		-22	-1320	712,762	2,342,457	
215	990		"	--	9.9	91°40'	-28.8	-38.7		1011.6		-16	-990	712,768	2,342,787	
Δ	870		248°16'37"	--	8.8	91°40'	-25.3	-31.1		1016.2	Δ	-22	-869	712,762	2,342,908	712,790 X - 2,342,930 See Corner.
216	660		248°45'	--	9.2	91°40'	-19.2	-28.4		1021.9		-11	-660	712,773	2,343,117	
217	330		"	--	7.4	91°40'	-9.6	-17.0		1033.3		-5	-330	712,779	2,343,447	
218	—		—		5.2	—		-5.2		1045.1	∧	0	0	712,784	2,343,777	
219	330		67°58'	+20.3	0.2	86°30'	+18.2	+8.0		1058.3		+10	+330	712,799	2,344,107	
220	658		72°59'	--	8.9	86°30'	+36.3	+27.4		1077.7		-38	+657	712,746	2,344,434	
221	987		74°39'	--	11.2	86°20'	+63.0	+51.8		1102.1		-85	+983	712,699	2,344,760	
222	1315		75°49'	--	9.9	86°20'	+83.9	+74.0		1124.3		-140	+1308	712,644	2,345,085	
223	1637		78°23'	--	7.0	86°20'	+104.5	+97.5		1147.8		-247	+1618	712,537	2,345,395	
T.P.	1828	1824.3	77°26'49"	--	5.8	86°20'	+116.9	+111.1		1161.4	T.P.	-246	+1808	712,539	2,345,584	
"	"		"		5.7	203°40'	+116.9	+111.2			T.P.	"	-1			
BS	712	710.7	227°19'40"	+20.3	3.4	93°30'	+43.5	+56.9	1218.3		BS	+271	+657			
"	"		"		13.5	266°30'	+43.5	+57.0		BS	"	"	"	"		
224	580		226°58'	--	5.2	94°20'	+43.7	-48.9		1169.4		-224	-535	712,587	2,345,705	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD M.N.		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE					
7-14-84		R. Towbridge		B. Cotcamp		6834		Rit. W		1		21					
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER			
Washington				Washington		Okanogan								L. Davis			
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH - LAT.	EAST + WEST - DEP.	COORDINATES		REMARKS	
														Y	X		
									1218.3								
225	253		219°41'	+20.3	11.1	93°-	-13.2	-24.3		1194.0		-127	-219	712,684	2,346,021		
X	-		-	-	-	-	-	-			X	0	0	712,811	2,346,240		
226	74		17°19'	--	7.4	84°-	+7.7	+0.3		1218.6		+59	+45	712,870	2,346,285		
227	404		16°30'	--	9.6	85°-	+35.1	+25.5		1243.8		+324	+242	713,135	2,346,482		
228	700		31°43'	--	9.8	85°10'	+58.8	+49.0		1267.3		+431	+552	713,242	2,346,792		
229	1014		38°50'	+20.3	4.3	85°10'	+85.4	+80.1		1299.4		+520	+870	713,331	2,347,110		
230	1320		42°13'	--	8.8	84°40'	+122.7	+113.9		1332.2		+609	+1171	713,420	2,347,411	Across Street	
T.P.	1443	1437.1	42°10'19"	--	3.8	84°50'	+129.9	+126.1		1344.4	TP	+664	+1274	713,476	2,347,513		
"	"		"	--	8.0	84°40'	+134.1	+126.1			TP	"	-				
B.S.	1556	1555.1	224°53'13"	--	12.7	92°-	+54.3	+67.0	1411.4		BS	+653	+1411				
"	"		"	--	12.8	268°-	+54.3	+67.1			BS	"	-				
231	1377		228°22'	+20.3	10.2	92°-	-48.0	-58.2		1353.2		-501	-1283	713,629	2,347,640		
232	1053		230°49'	--	10.3	92°-	-36.7	-47.0		1364.4		-341	-996	713,789	2,347,927		
233	730		234°52'	--	10.5	92°-	-25.5	-36.0		1375.4		-187	-706	713,943	2,348,217		
234	404		231°17'	--	7.7	92°-	-14.1	-21.8		1389.6		-128	-383	714,002	2,348,540		
235	76		218°00'	--	7.9	90°-		-7.9		1403.5		-40	-65	714,090	2,348,858		
X	-		-	-	-	-	-	-			X	0	0	714,130	2,348,923		
236	252		240°39'	+20.3	7.1	88°20'	+7.3	+0.2		1411.6		+178	+178	714,308	2,349,101	y=714,495 x=2,349,150	
A	396		16°46'36"	--	10.1	88°20'	+11.5	+1.4		1412.8	A	+316	+239	714,446	2,349,162	Cr. X-ing	
237	577		18°10'	--	11.7	88°20'	+16.8	+5.1		1416.5		+452	+359	714,582	2,349,282		

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
7-14-84		R. Trowbridge		B. Cotcamp		6834		R.T.		1		22				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
Washington				Washington		Okonago								L. Davis		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH - LAT.	EAST + WEST - DEP.	COORDINATES		REMARKS
														Y	X	
									1411.4							
T.P.	733		190°44'14"	+20.3	4.6	88°50'	+14.9	+10.3			TP	+561	+471	714692	2,349,393	
"	"		"		4.7	271°10'	+14.9	+10.2		1421.6	TP	"	-1			
B.S.	850		243°16'17"	"	10.1	92°-	+29.7	+39.8			BS	+95	+844			
"	"		"	"	10.0	268°-	+29.7	+39.7	1461.3		BS	"	-1			
238	661		242°21'	+20.3	7.9	92°-	-23.1	-31.0		1430.3		-85	-656	714703	2,349,580	
239	330		245°05'	"	5.5	92°-	-11.5	-17.0		1444.3		-27	-329	714761	2,349,907	
240	—		—		5.2	—				1461.3	TP	0	0	714788	2,350,230	
241	331		71°58'	"	7.1	87°20'	+15.4	+8.3		1469.6		-13	+331	714795	2,350,567	
242	661		68°57'	"	8.7	87°20'	+30.7	+22.0		1483.3		19	+661	714797	2,350,897	
243	991		"		7.9	87°20'	+46.1	+38.2		1499.5		+13	+991	714801	2,351,227	
244	1319	1317.6	69°53'04"	+20.3	10.1	87°20'	+4.4	+51.3			TP	-4	+1318	714785	2,351,553	
T.P.	"		"		6.3	87°30'	+57.5	+51.2		1512.5	TP	"	-1			
B.S.	1606	1604.9	262°10'58"	"	11.3	92°10'	+60.7	+72.0	1584.5		BS	-347	+1567			
"	"		"		11.3	267°50'	+60.7	+72.0			BS	"	-1			
245	1286		259°22'	+20.3	6.8	92°20'	-52.3	-59.1		1525.4		+216	-1268	714655	2,351,851	
246	963		255°42'	"	7.5	92°10'	-36.4	-43.9		1540.6		+101	-958	714540	2,352,161	
247	650		248°19'	"	6.4	92°10'	-24.6	-31.0		1553.5		-16	-650	714423	2,352,467	
248	329		240°19'	"	8.2	91°40'	-9.6	-17.8		1566.7		-54	-325	714385	2,352,794	
249	—		—		5.2	—		-5.2		1579.3	TP	0	0	714439	2,353,119	

SURVEY NOTES-HIGH RESOLUTION DATA

GEP-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
7-16-84		R. Trowbridge		B. Cotcamp		6834		RIT		1		23			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Washington		Mount Holl		Washington		Okanogan								L. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									1584.5						
A	322		56°26'36"	+20.3	6.2	87°30'	+14.0	+7.8		1592.3	#	+74	+313	714,513	2,353,432 #
250	330		58°07'	"	6.2	87°30'	+14.4	+8.2		1592.7		+66	+323	714,505	2,353,442 #
251	660		"	"	9.5	87°30'	+28.8	+19.3		1603.8		+133	+647	714,572	2,353,766
252	990		"	"	13.0	87°30'	+43.1	+30.1		1614.6		+199	+970	714,638	2,354,089
A	1043	1042.4	57°28'06"	"	4.5	88°	+36.4	+31.9		1616.4	#	+221	+1019	714,660	2,354,138 #
253	1322	1321.1	58°46'11"	"	7.2	87°30'	+50.0	+42.8		1627.3	TP	+250	+1297	714,690	2,354,415
T.P.	"		"	+20.3	7.2	272°10'	+50.0	+42.8			TP	"	-		
B.S.	1322	1321.1	264°09'28"	"	+12.6	92°10'	+50.0	+62.6	1689.9		BS	-323	+1281		
"	"		"	"	+12.6	267°50'	+50.0	+62.6			BS	+1	-		
254	989		263°16'	"	12.5	92	+34.5	-47.0		1642.9		+232	-961	714,600	2,354,734
255	660		262°20'	"	11.1	91°30'	-17.3	-28.4		1661.5		+144	-644	714,512	2,355,051
256	330		260°20'	"	8.1	91-	-5.8	-13.9		1676.0		+61	-324	714,429	2,355,371
257					5.2			-5.2		1684.7	A	0	0	714,368	2,355,695
A	255		76°34'13"	+20.3	7.8	87°30'	+11.1	+3.3		1693.2	#	-29	+253	714,339	2,355,948 #
258	330		76°20'	"	8.3	87°30'	+14.4	+6.1		1696.0		-38	+328	714,330	2,356,023
259	657		85°14'	"	8.3	87°30'	+28.6	+20.3		1710.2		-176	+633	714,192	2,356,328
260	987		86°29'	"	6.7	87°30'	+43.0	+36.3		1726.2		-285	+945	714,083	2,356,640
261	1316		87°19'	"	9.4	87°10'	+65.0	+55.6		1745.5		-398	+1254	713,970	2,356,949
T.P.	1511	1509.2	87°15'37"	"	5.9	87°10'	+4.7	+68.8		1758.2	TP	-448	+1441	713,921	2,357,135
"	"		"	"	1.5	87°20'	+70.3	+68.8			TP	+1	-		

y-714,545 x-2,353,442 # CREEK CROSSING

y-714,690 x-2,354,089 # CREEK CROSSING

y-714,400 x-2,355,960 # FENCELINE INT

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
7-16-84		R. Trowbridge		B. Cotcamp		6834		R.T.		1		24			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Washington		Mount Hull		Washington		Washington								L. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
BS	2088	2086.3	216°43'19"	+19.8	8.2	92°20'	+85.0	+93.2	1851.7	1758.7	BS	-594	+2000		
"	"	"	"	+14.0	26230'	+78.9	+92.9	9203			BS	+	-		
262	1954		266°30'	--	7.5	92°20'	-79.5	-87.0		1764.7		+548	-1875	713876	2,357,259
263	1623		216°33'	--	9.0	92°20'	-66.0	-75.0		1776.7		+457	-1557	713785	2,357,577
264	1291		265°13'	--	11.7	92°20'	-52.5	-64.2		1787.5		+335	-1247	713663	2,357,887
265	976		260°40'	--	11.9	92°20'	-39.7	-51.6		1800.1		+177	-960	713505	2,358,174
266	658		255°21'	--	10.0	92°20'	-26.8	-36.8		1814.9		+59	-655	713387	2,358,479
Δ	511		256°00'55"	--	8.8	92°20'	-20.8	-29.6		1822.1	Δ	+52	-508	713380	2,358,626
267	329		256°39'	--	7.7	92°20'	-13.4	-21.1		1830.6		+37	-327	713365	2,358,807
268					5.2			-5.2		1846.5	TP	0	0	713328	2,359,134
269	330		86°17'	+19.8	5.9	87°00'	+17.2	+11.3		1863.0		-91	+317	713237	2,359,451
270	660		"	--	6.7	87°00'	+34.5	+27.8		1879.5		-183	+634	713145	2,359,768
B.M	889		83°18'18"	--	7.0	87°00'	+46.5	+39.5		1891.2	B.M	-201	+865	713127	2,359,999
271	990		86°17'	--	8.7	87°00'	+51.7	+43.0		1894.7		-274	+951	713054	2,360,085
272	1320		"	--	10.8	87°00'	+69.0	+58.2		1909.9		-366	+1268	712962	2,360,402
273	1658	1648.2	86°33'57"	--	11.3	87°20'	+76.8	+65.5		1917.2	TP	-466	+1581	712863	2,360,714
"	"	"	"	--	11.2	87°20'	+76.8	+65.6			TP	+	-		
BS	1969	1967.4	265°20'01"	+19.8	12.4	92°20'	+80.2	+92.6	2009.8		BS	-514	+1999		
"	"	"	"	--	12.4	262°40'	+80.2	+92.6			BS	+	-		
274	1640		264°17'	--	11.7	92°40'	-76.3	-88.0		1921.8		+399	-1591	712749	2,361,021

y=713,195 x=2,359,960
y=283 B.M. U.S.C. & G.S.
E.L. 1891.2

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	7-16-84	INSTRUMENT MAN	R. Trowbridge	ROD MAN	B. Costamp	PARTY NUMBER	6834	NOTES CHECKED BY	R.T.	LINE NO.	1	PAGE	25
AREA	Washington	TOPO MAP	Mount Hull	STATE	Washington	COUNTY	Okanogan	TWP		RANGE		PPM	
											PARTY MANAGER	L. Davis	

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS	
												LAT.	DEP.	Y	X				
									2009.8										
275	1314		262°24'	+19.8	8.1	93-	-68.7	-76.8		1933.0		+278	-1284	712,628	2,361,328				
276	989		262°29'	--	8.2	93-	-51.7	-59.9		1949.9		+210	-966	712,560	2,361,646				
277	660		262°23'	--	8.3	93-	-34.5	-42.8		1967.0		+139	-645	712,489	2,361,967				
278	330		265°45'	--	8.8	92°30'	-14.4	-23.2		1986.6		+88	-318	712,438	2,362,294				
Δ	289		269°58'57"	--	8.1	92°30'	-12.6	-20.7		1989.1	Δ	+98	-272	712,448	2,362,340			712,500 x 2,362,285	
279					5.2			-5.2		2004.6	TP	0	0	712,350	2,362,612			Cr Xing	
280	330		89°37'	+19.8	7.4	86°30'	+20.1	+12.7		2022.5		-110	+311	712,240	2,362,923				
281	660		"	--	8.1	86°30'	+40.2	+32.1		2041.9		-219	+622	712,131	2,363,234			Fence line	
Δ	883	881.4	88°37'53"	--	9.4	86°30'	+53.8	+44.4		2054.2	H	-279	+836	712,021	2,363,448			↓ ↓ ↓	
282	990		89°37'	--	10.1	86°30'	+60.3	+50.2		2060.0		-329	+934	712,021	2,363,546			712,090 x 2,363,445	
283	1320		"	--	9.6	86°30'	+80.6	+70.0		2080.8	X	-439	+1245	711,911	2,363,857				
284	1642		92°20'	--	9.1	86°30'	+100.0	+90.9		2100.7		-619	+1521	711,731	2,364,133				
285	1945	1941.0	96°33'35"	--	12.9	86°20'	+124.4	+111.5		2121.4	TP	-862	+1739	711,489	2,364,350				
T.P.	"		"		12.7	273°40'	+124.4	+111.7			TP	"	"						
B.S.	1484	1482.0	300°12'50"	+19.8	13.3	93°-	+77.7	+91.0		2121.4	BS	-1135	+952						
"	"		"	--	13.2	267°-	+77.7	+90.9			BS	"	"						
286	1154		300°13'	--	12.9	93-	-60.3	-73.2		2139.2		+884	-742	711,239	2,364,559				
287	824		"	--	10.4	93°30'	-50.2	-60.6		2151.8		+631	-529	710,986	2,364,772				
Δ	764	762.6	301°07'48"	--	11.6	93°30'	-46.6	-58.2		2154.2	Δ	+592	-481	710,947	2,364,820			711,000 x 2,364,790	
288	494		300°13'	--	11.5	93°30'	-30.1	-41.6		2170.8		+379	-317	710,734	2,364,984			Cr-Xing	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
7-17-84		R. Trowbridge		B. Cotcamp		6834		R.S. W		1		26				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
Washington				Washington		Okemagon								L. Davis		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
289	163		300°12'	+19.8	7.4	93°30'	-9.9	-17.3	2212.4	2195.1	TP	+125	-105	710,480	2,365,196	
290	166		114°05'	--	6.8	84°40'	+15.4	+8.6		2221.0	TP	0	0	710,355	2,365,301	
291	493		106°07'	--	8.3	85°20'	+40.1	+31.8		2244.2		-289	+399	710,066	2,365,700	
292	822		103°48'	--	12.5	85°20'	+66.9	+54.4		2266.8		-455	+685	709,900	2,365,986	
Δ	874	871.1	102°31'37"	+19.8	12.1	85°20'	+71.1	+59.0		2271.4	Δ	-466	+736	709,885	2,366,037	Int. x-2,365,925
293	1152		102°41'	--	10.2	85°20'	+93.7	+83.5		2295.9		-619	+972	709,736	2,366,273	
294	1477		104°23'	--	2.3	85°20'	+120.2	+112.9		2325.3		-830	+1222	709,525	2,366,523	
295	1793		105°41'	--	9.9	85°30'	+140.7	+130.8		2343.2		-1091	+1423	709,264	2,366,724	
TP	1894	1888.6	107°34'40"	--	2.3	85°40'	+143.1	+135.8		2348.2	TP	-1147	+1501	709,209	2,366,801	2,366,801
"	"		"		12.8	274°30'	+148.6	+135.8			TP	+	-			
BS	893	890.9	305°51'06"	+19.8	10.3	94°20'	+67.5	+77.8	2426.0		BS	-735	+502			
"	"		"		12.9	94°10'	+64.9	+77.8			BS	+	-			
296	660		303°29'	--	11.3	94°20'	-49.9	-61.2		2364.8		+529	-395	709,004	2,366,907	
297	330		"	--	8.9	94°20'	-24.9	-33.8		2392.2		+265	-197	708,740	2,367,105	
298					5.2			-5.2		2420.8	TP	0	0	708,475	2,367,302	
299	325		151°13'	--	2.5	84°	+34.0	+26.5		2452.5		-321	+51	708,154	2,367,353	
300	651		147°52'	--	2.3	84°30'	+62.4	+55.1		2481.1		-636	+139	707,839	2,367,441	
T.P.	689	685.8	147°30'00"	--	2.8	84°30'	+66.0	+58.2		2484.2	TP	-669	+151	707,807	2,367,452	
"	"		"		4.7	275°10'	+62.0	+57.3			"	+	-			

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 7-17-84	INSTRUMENT MAN R. Trowbridge	ROD MAN B. Cotcamp	PARTY NUMBER 6884	NOTES CHECKED BY R.T. le	LINE NO. 1	PAGE 27
AREA Washington	TOPO MAP	STATE Washington	COUNTY Okanagan	TWP	RANGE	PPM
				PARTY MANAGER L. Davis		

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS
												LAT.	DEP.	Y	X			
BS	703	700.5	278°04'06"	+19.8	9.4	94°50'	+59.2	+68.2	2552.8		BS	-327	+619					
"	"		"		9.3	265°10'	+59.2	+68.5			BS	"	-1					
301	415		274°02'	--	8.1	94°50'	-35.0	-43.1		2509.7		+168	-380	707649	2367.670			
302	85		"	--	5.4	94°50'	-7.2	-12.6		2540.2		+34	-78	707515	2367.992			
TP											TP	0	0	707481	2368.070			
303	244		93°05'	+19.8	7.0	84°10'	+24.8	+17.8		2570.6		-95	+225	707386	2368.295			
304	569		87°28'	--	11.1	84°10'	+57.8	+46.7		2599.5		-169	+943	707312	2368.613			
305	897		87°36'	--	9.5	84°30'	+86.0	+76.5		2629.3		-268	+856	707213	2368.920			
TP	1156	1150.7	088°01'42"	--	6.0	84°30'	+110.8	+104.8		2657.6	TP	-352	+1095	707130	2369.164			
"	"		"		5.9	225°30'	+110.8	+104.9			TP	"	-1					
BS	1065	1061.5	292°55'37"	+19.8	9.5	94°10'	+86.6	+96.1	2753.7		BS	-720	+780					
"	"		"		12.6	94°30'	+83.6	+96.2			BS	"	-1					
306	986		292°39'	--	10.0	94°50'	-83.1	-93.1		2660.6		+666	-728	707077	2369.215			
307	657		292°13'	--	12.6	94°10'	-47.7	-60.3		2693.4		+440	-488	706851	2369.455			
308	330		287°30'	--	8.7	94°10'	-24.0	-32.7		2721.0		+200	-263	706611	2369.680			
309					5.2			-5.2		2748.5	TP	0	0	706411	2369.943			
310	328		116°51'	--	12.0	84°10'	+33.3	+21.3		2775.0		-239	+225	706172	2370.168			
TP	450	448.3	116°53'59"	--	7.2	85°-	+39.2	+32.0		2785.7	TP	-326	+307	706086	2370.249			
"	"		"	--	7.1	278°-	+39.2	+32.1			TP	"	-1					

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED		LINE NO.		PAGE			
7-17-84		R. Trowbridge		B. Cotcamp		6834		R.T. W		1		28			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Washington				Washington		Okanogan								L. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
BS	522	521.2	274°30'12"	+19.8	11.0	93°10'	+28.8	+39.8	2825.5		BS	-215	+475		
"	"		"	"	12.5	93°	+27.3	+39.8			BS	"	"		
311	330		268°3'	"	6.3	93°	-17.3	-23.6	2801.9			+104	-313	705976	2,370,410
312	—		—		5.2	—	—	-5.2	2820.3		X	0	0	705872	2,370,723
313	327		114°28'	+19.8	5.8	85°30'	+25.7	+19.9	2845.4			-228	+234	705644	2,370,957
314	652		115°45'	"	10.5	85°30'	+51.2	+40.7	2866.2			-465	+457	705407	2,371,180
TP	798	795.9	114°20'34"	"	5.5	85°50'	+58.0	+52.5	2878.0		TP	-554	+571	705319	2,371,293
"	"		"	"	5.4	271°10'	+58.0	+52.6			TP	"	"		
BS	450	449.2	255°12'47"	"	11.1	93°30'	+27.5	+38.6	2916.6		BS	-39	+447		
"	"		"	"	13.7	93°10'	+24.9	+38.6			BS	"	"		
315	262		251°54'	"	8.7	93°10'	-14.5	-23.2	2893.4			+8	-262	705289	2,371,478
X	—		—		—	—	—	—			X	0	0	705281	2,371,740
316	68		87°15'	+19.8	6.1	86°	+4.7	-1.4	2915.2			-20	+65	705261	2,371,805
317	389		61°28'	"	11.0	86°	+27.1	+16.1	2932.7			+59	+384	705340	2,372,124
TP	637	635.7	67°48'07"	"	6.3	86°20'	+40.7	+34.4	2951.6		TP	+27	+635	705309	2,372,374
"	"		"	"	4.4	86°30'	+38.9	34.5			TP	"	"		
BS	406	405.7	278°19'47"	"	10.4	92°20'	+16.5	+26.9	2977.9		BS	-191	+358		
"	"		"	"	13.9	28°10'	+13.0	+26.9			BS	"	"		
318	330		280°	"	9.4	92°	-11.5	-20.9	2957.0			+164	-286	705283	2,372,445
X	—		—		5.2	—	—	-5.2	2972.7		X	0	0	705119	2,372,731

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-17-84		R. Troubridge		B. Cotcamp		6834		R.T. W		1		29			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Washington				Washington		Okonogan								L. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									2977.9						
320	328		79°52'	+19.8	8.1	89°30'	+2.9	-5.2		2972.7		-55	+323	705064	2,373,054
x 321	653		72°48'	"	10.2	85°40'	+15.2	+5.0		2982.9		-30	+652	705089	2,373,383
Δ	683		71°29'45"	--	8.9	85°40'	+15.9	+7.0		2984.9	A	-15	+683	705104	2,373,414 Int
322	982		74°02'	--	10.0	87°30'	+37.1	+27.1		3005.0		-66	+980	705053	2,373,711
323	1302		77°54'	--	10.4	87°30'	+56.8	+46.4		3024.3		-174	+1290	704945	2,374,021
TP	1643	1640.5	79°35'28"	--	4.4	86°50'	+90.8	+86.4		3014.4	TP	-211	+1627	704909	2,374,357
"	"		"		4.2	223°10'	+90.8	+86.6			TP	+	-		
BS	784		246°36'28"	+19.8	8.4	89°00'	-13.7	-5.3	3059.1		BS	+49	+782		
BS	"		"	--	8.3	27°	-13.7	-5.4			BS	+	-		
324	824		240°55'	--	7.6	91-	-14.4	-22.0		3037.1		-133	-813	704826	2,374,325
325	499		237°13'	--	6.7	92-	-17.4	-24.1		3035.0		-112	-486	704847	2,374,652
326	169		"	--	7.5	92-	-5.9	-13.4		3045.7		-38	-165	704921	2,374,973
Δ	39		221°40'08"	+19.8	5.1	92-	-1.4	-6.5		3052.6	A	-19	-34	704940	2,375,104 Int
Δ								-5.2		3053.9	Δ	0	0	704959	2,375,138
327	174		93°56'	--	5.5	87°20'	+8.1	+2.6		3061.7		-70	+159	704889	2,375,297
ΔTP	334		94°04'41"	--	5.8	88-	+11.7	+5.9		3065.0	TP	-135	+305	704825	2,375,442
"	"		"		5.8	272-	+11.7	+5.9			TP	+	-		
BS	2278		280°51'09"	--	13.4	B.A.	+11.4	+24.8	3089.8		BS	-1161	+1960		
"	"		"	--	11.5	90°20'	+13.3	+24.8			BS	+	-		

705.090 x -2,373,460

704970 x -2,375,110

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
2-17-84		R. Howbridge		B. Cotcamp		6534		RTT. lc		1		30			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Washington				Washington		Okanogan								L. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									3089.8						
328	2109		280°55'	+19.8°	12.5	90°20'	-12.3	-24.8		3065.0		+1077	-1813	704742	2,375,588
329	1779		"	"	12.8	90°40'	-20.7	-33.5		3056.3		+909	-1529	704574	2,375,872
330	1449		"	"	12.2	90°45'	-19.0	-31.2		3058.6		+740	-1246	704405	2,376,155
331	1119		"	"	12.1	90°20'	-6.5	-18.6		3071.2		+572	-962	704237	2,376,439
Δ	929		281°26'36"	+19.8°	7.2	90°20'	-5.4	-12.6		3077.2		+482	-794	704147	2,376,607
332	789		280°55'	"	6.3	90°20'	-4.6	-10.9		3078.9		+403	-678	704068	2,376,723
333	459		"	"	8.7	90°20'	-2.7	-11.4		3078.4		+234	-395	703899	2,377,006
334	129		"	"	6.1	90°20'	-0.8	-6.9		3082.9		+66	-111	703731	2,377,290
X											X	0	0	703665	2,377,401
335	198		90°29'	+19.8°	6.9	88°50'	+4.0	-2.9		3086.9		-69	+186	703596	2,377,587
336	528		"	"	9.7	88°50'	+10.8	+1.1		3090.9		-183	+495	703482	2,377,896
337	858		"	"	10.8	88°50'	+17.5	+6.7		3096.5		-297	+805	703368	2,378,206
338	1188		"	"	8.4	88°30'	+31.1	+22.7		3112.5		-412	+1114	703253	2,378,515
TP	1329	1328.5	89°27'24"	"	5.8	88°30'	+34.8	+29.0		3118.8	TP	-438	+1254	703228	2,378,654
Δ	"		"		2.0	88°40'	+30.9	+28.9			TP	+1	-1		
BS	1507		262°46'40"	+19.8°	4.2	91°00'	+26.3	+40.5			BS	-328	+1471		
"	"		"	"	13.8	269°	+26.3	+40.1	3159.1		BS		-1		
339	1319		262°24'	"	8.9	91°20'	-30.7	-39.6		3119.5		+279	-1289	703179	2,378,835
340	990		"	"	7.3	92°10'	-37.4	-44.7		3114.4		+209	-968	703109	2,379,156
341	660		"	"	10.6	92°30'	-28.8	-39.4		3119.7		+139	-645	703039	2,379,479

Y=703,200 X=2,378,665
Intersect

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 7-16-84	INSTRUMENT MAN R. Trowbridge	ROD MAN B. Cotcamp	PARTY NUMBER 6834	NOTES CHECKED BY R.T. W	LINE NO. 1	PAGE 31
AREA Washington	TOPO. MAP Mount Hood 7 1/2	STATE Washington	COUNTY	TWP	RANGE	PPM
				PARTY MANAGER L. Davis		

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS
												LAT.	DEP.	Y	X	
									3159.1							
342	330		262°24'	+19.8°	9.5	91°40'	-9.6	-19.1		3140.0		+70	-323	702,970	2,379,801	
343	—		—		5.2	—		-5.2		3153.9	X	0	0	702,900	2,380,124	
Δ	191		86°55'40'	--	5.0	90-		-5.0		3154.1	Δ	-55	+183	702,845	2,380,307	
344	330		92°35'	--	5.7	90-		-5.7		3153.4		-126	+305	702,774	2,380,429	702,830 x-2,380,330
345	660		94°08'	--	5.5	90-		-5.5		3153.6		-268	+603	702,632	2,380,727	Int.
346	990		94°42'	--	12.7	89°10'	+14.4	+1.7	X	3160.8		-411	+901	702,469	2,381,025	
347	1320		95°20'	--	8.7	88°50'	+26.9	+18.2		3177.3		-561	+1195	702,339	2,381,319	
348	1650		95°44'	--	8.3	88°30'	+43.2	+34.9		3194.0		-711	+1489	702,189	2,381,613	
349	1980	1979.3	95°45'09"	--	10.0	88°30'	+51.8	+41.8	a	3201.0	TP	-854	+1786	702,046	2,381,909	
T.P.	"		"		9.7	271°30'	+51.8	+42.15			T.P.		-1			

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE	7-17-84	INSTRUMENT MAN	R. Trumble	ROD MAN	B. Cotcamp	PARTY NUMBER	6834	NOTES CHECKED BY	R.T. K	LINE NO.	1	PAGE	32
AREA	Washington	TOPO MAP	Mt. Bonaparte	STATE	Washington	COUNTY	Okanogan	TWP		RANGE		PPM	
											PARTY MANAGER L. Davis		

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS
												LAT.	DEP.	Y	X			
BS	11651		275°32'24"	+19.8	11.4	91°40'	+19.2	+36.6	3231.6		BS	-707	+1492					
"	"		"		11.3	89°20'	+19.2	+30.5			BS		-1					
350	1320		275°32'	--	9.7	91°10'	-26.9	-36.6		3195.0		+565	-1193	701904	2.382,207			
351	990		"	--	9.2	91°50'	-31.7	-40.9		3190.7		+424	-895	701763	2.382,505			
352	660		"	--	11.0	91°50'	-21.1	-32.1		3199.5		+282	-597	701621	2.382,803			
353	330		"	--	7.8	91°50'	-10.6	-18.4		3213.2		+141	-298	701480	2.383,102			
354	—		—		5.2	—		-5.2		3226.4	X	0	0	701339	2.383,400			
355	330		94°39'	+19.8	11.5	81°30'	+20.2	+8.7		3240.3		-137	+300	701202	2.383,700			
356	648		104°32'	--	9.7	87°—	+33.9	+24.2		3255.8		-365	+535	700974	2.383,935			
357	945		114°57'	--	10.2	86°30'	+57.7	+47.5		3279.1		-665	+671	700674	2.384,071			
358	1252		121°11'	--	9.1	86°20'	+80.7	+71.0		3302.6		-973	+788	700366	2.384,188			
359	1575		123°36'	--	9.2	81°20'	+100.7	+91.5		3323.1		-1264	+939	700075	2.384,339			
T.P.	1799	1794.4	117°41'33"	--	14.6	85°54'	+128.6	+114.0		3345.7	TP	-1323	+1212	700016	2.384,611			
"	"		"		13.4	74°04'	+127.6	+114.2			TP		-1					
BS	526		225°37'14"	+19.8	9.0	92°—	+18.4	+27.4	3373.1		BS	+219	+478					
"	"		"		13.6	91°30'	+13.8	+27.4			BS		-1					
360	493		225°19'	--	12.5	91°30'	-12.9	-25.4		3347.7		-207	-447	700028	2.384,641			
361	163		"	--	7.4	90°—		-7.4		3365.7		-69	-148	700166	2.384,940			
X	—		—								X	0	0	700235	2.385,088			
362	1166		45°13'	--	4.5	T.H.	+0.8	-3.7		3369.4		+70	+150	700305	2.385,238			

SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
7-17-84		R. Troubridge		B. Cotcamp		6834		R.T. K		1		33			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Washington		Mt. Bonaparte		Washington		Okemogon								L. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									3373.1						
Δ	326		43°20'47"	+19.8	4.8	T.H.	+1.6	-3.2		3369.9	Δ	+147	+291	700382	2,385,379
363	495		45°13'	--	5.0	90-		-5.0		3368.1		+209	+449	700444	2,385,537
364	825		"	--	5.2	T.H.	+4.1	+1.1		3374.2		+348	+748	700583	2,385,836
365	1155		"	--	11.6	89°20'	+13.4	+1.8		3374.9		+488	+1047	700723	2,386,135
366	1485		"	--	10.0	89°-	+25.9	+15.9		3389.0		+627	+1346	700862	2,386,434
367	1815		"	--	11.9	88°30'	+47.5	+35.6		3408.7		+767	+1645	701002	2,386,733
T.P.	1953	1952.3	045°09'48"	+19.6	6.9	88°30'	+51.1	+44.2		3417.3	TP	+832	+1766	701067	2,386,853
"	"		"		12.5	27°40'	+56.8	+44.3			"		-		
BS	1180	1178.9	236°21'58"	--	11.0	92°30'	+51.5	+62.5	3479.8		BS	+286	+1144		
BS	"		"		11.0	26°30'	+51.5	+62.5			BS		-		
368	987		236°08'	+19.6	11.4	92°20'	+40.2	-51.6		3428.2		-243	-957	701110	2,387,039
369	657		235°21'	--	11.8	92°-	-22.9	-34.7		3445.1		-171	-634	701182	2,387,362
370	329		232°56'	--	9.9	91°30'	-8.6	-18.5		3461.3		-99	-314	701254	2,387,682
371	-		-		5.2	-		-5.2		3474.6	TP	0	0	701353	2,387,996
372	331		35°24'	--	11.8	87°20'	+15.4	+3.6		3483.4		+190	+271	701543	2,388,267
373	660		32°38'	--	9.5	87°20'	+30.7	+21.2		3501.0		+404	+522	701757	2,388,518
374	989		31°33'	--	11.7	87°20'	+46.0	+34.3		3514.1		+620	+770	701923	2,388,766
375	1319		30°55'	--	9.2	87°50'	+49.9	+40.7		3520.5		+839	+1018	702192	2,389,014
TP	1509	1507.9	30°53'49"	--	13.4	87°50'	+57.0	+43.6		3523.4	TP	+959	+1163	702312	2,389,158
"	"		"		13.4	27°10'	+57.6	+43.6			TP		-		

700,356 x 2,385,370
4-way

SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
7-17-84		R. Towbridge		B. Catecamp		6834		W.B.C.		1		34			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Washington		Mt Bonaparte		Washington		Okanogan								L. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
										3523.4					
BS	1107		244°57'36"	+19.6	10.5	91°-	+19.3	+29.8	3553.2		BS	+105	+1102		
"	"		"		10.4	269°-	+19.3	+29.7			BS		-1		
376	979		248°16'	--	12.6	91°-	-17.1	-29.7	3523.5			-36	-978	702,381	2,389,281
377	658		252°56'	--	11.4	91°10'	-13.4	-24.8	3528.4			+29	-657	702,446	2,389,602
378	330		259°42'	--	9.8	91°10'	-6.7	-16.5	3536.7			+42	-327	702,454	2,389,932
379	-		-		5.2	-	-	-5.2	3548.0		X	0	0	702,417	2,390,259
380	330		359°49'	+19.6	6.3	88°20'	+9.6	+3.3	3556.5			-23	+329	702,344	2,390,588
Δ	474		75°10'33"	--	6.9	88°-	+16.5	+9.6	3562.8		Δ	-39	+472	702,378	2,390,731
381	658	657.6	78°35'31"	--	2.2	88°-	+23.0	+20.8	3574.0		TP	-94	+651	702,323	2,390,709
T.P.	"		"		0.3	88°10'	+21.1	+20.8			TP		-1		
BS	607	606.2	278°24'23"	--	12.5	93°-	+31.8	+44.3	3618.3		BS	-285	+535		
"	"		"		14.2	92°50'	+30.0	+44.2			BS		-1		
382	279		272°05'	+19.6	12.3	92°-	-9.7	-22.0	3596.3			+103	-259	702,141	2,391,184
X	-		-	--	-	-	-	-			X	0	0	702,038	2,391,443
383	50		86°23'	--	6.0	85°-	+4.4	-1.6	3616.7			-14	+48	702,024	2,391,491
T.P.	329	328.4	71°32'30"	--	2.6	86°40'	+19.1	+16.5	3634.8		TP	-7	+328	702,031	2,391,770
"	"		"		1.7	86°50'	+18.2	+16.5			TP		-1		
BS	538		236°26'49"	+19.6	13.7	91°30'	+14.1	+27.8	3662.6		BS	+130	+522		
"	4		"	--	13.6	268°30'	+14.1	+27.2			BS		-1		
384	493		237°12'	--	10.9	91°40'	-14.3	-25.2	3637.4			-113	-480	702,048	2,391,811

702,385 x-2,390,710
Fence line

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
7-17-84		B. Trowbridge		B. Cotcamp		6874		B.P.C.		1		35			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Washington		Mt. Bonaparte		Washington		Okonogen								L. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									3662.6						
385	167		227°28'	+19.6	8.8	90-		-8.8		3653.8		-65	-154	702096	2,392,137
											A	0	0	702161	2,392,291
386	165		59°39'	--	54	88°40'	+3.8	-11.6		3661.0		+31	+162	702192	2,392,453
387	495		55°17'	--	6.9	88°40'	+11.5	+4.6		3667.2		+129	+478	702290	2,392,769
388	823		55°32'	--	8.3	89°-	+14.4	+6.1		3668.7		+211	+795	702372	2,393,086
TP	1067		55°11'38"	--	9.2	89°-	+18.6	+9.4		3672.0	TP	+280	+1029	702341	2,393,319
TP	"		"	--	9.2	27°-	+18.6	+9.4			TP		-1		
BS	2057	2056.3	256°45'16"	+19.6	8.2	91°30'	+53.8	+62.0	3734.0		BS	-228	+2044		
"	"		"	--	14.0	268°40'	+47.9	+61.9			BS				
389	1966		256°35'	--	10.7	91°30'	-51.5	-62.2		3671.8		+212	-1955	702425	2,393,408
390	1637		256°35'	--	11.1	91°40'	-47.6	-58.7		3675.3		+176	-1627	702389	2,393,736
391	1309		255°49'	--	8.0	92°-	-45.7	-53.7		3680.3		+124	-1303	702337	2,394,060
392	781		254°20'	--	12.8	92°-	-34.2	-47.0		3687.0		+67	-979	702280	2,394,384
393	654		251°09'	--	7.6	93°-	-34.2	-41.8		3692.2		+9	-654	702322	2,394,709
394	330		245°42'	--	12.3	93°-	-17.3	-29.6		3704.4		-27	-329	702186	2,395,034
395				--	5.2			-5.2		3728.8	A	0	0	702213	2,395,363
396	330		51°20'	+19.6	5.1	85°40'	+24.9	+19.8		3753.8		+108	+312	702321	2,395,675
397	658		49°55'	--	8.0	85°40'	+49.7	+41.7		3775.7		+230	+616	702443	2,395,979
398	987		50°27'	--	8.9	85°40'	+74.6	+65.7		3799.7		+337	+928	702550	2,396,291

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
1-18-84		R. Troubridge		B. Cotcamp		6834		K.B.C.		1		36			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Washington		Mt. Bonapartes		Washington		Okemogon								L. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC.	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									3734.0						
399	1315	1311.8	50°21'19"	+19.6	8.8	86°-	+91.7	+82.9			TP	+450	+1232	702,660	2,396,595
T.P.	"		"		8.7	274°-	+91.7	+83.0		3817.0	TP				
BS	990		223°18'23"	--	+6.0	T.H.	-5.0	+1.0	3818.0		BS	+451	+881		
"	"		"	--	3.9	89°50'	-2.9	+1.0			BS				
400	660		222°05'	--	6.4	T.H.	+3.3	-3.1		3814.9		-313	-581	702,801	2,396,885
401	330		"	--	11.1	90°-		-11.1		3806.9		-157	-291	702,957	2,397,185
Δ	327		223°39'49'	--	11.1	90°-		-11.1		3806.9	Δ	-147	-292	702,962	2,397,184
402	+		---	--	5.2	---		-5.2		3812.8	X	0	0	703,114	2,397,476
403	330		52°12'	+19.6	7.3	88°-	+11.5	+4.2		3822.2		+103	+313	703,217	2,397,789
404	660		54°47'	--	11.1	87°20'	+30.7	+19.6		3837.6		+178	+636	703,292	2,398,112
TP	838	837.1	052°42'53"	--	7.8	87°20'	+39.0	+31.2		3849.2	TP	+254	+798	703,368	2,398,274
"	"		"	--	7.7	232°40'	+39.0	+31.3			TP				
BS	525		223°13'19"	+19.4	13.0	90°-		+13.0	3862.2		BS	+241	+466		
"	"		"	--	12.9	270°-		+12.9			BS				
405	380		222°54'	--	9.0	90°-		-9.0		3853.2		-177	-336	703,432	2,398,404
406	58		209°-	--	7.5	90°-		-7.5		3854.7		-39	-43	703,570	2,398,697
X	---		---	--	---	---		---			X	0	0	703,609	2,398,740
407	287		74°32'	--	8.9	86°-	+20.0	+11.1	X	3873.3		-20	+286	703,589	2,399,026
408	617		"	--	10.8	86°-	+43.0	+32.2		3894.4		-42	+616	703,567	2,399,356
409	946		"	--	12.5	86°-	+66.0	+53.5		3915.7		-65	+944	703,544	2,399,684

Δ - 702,965 X - 2,397,245
 Δ - 4 WAY CNT.

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
7-18-84		R. Towbridge		B. Cotcamp		1834		L.B.C.		1		37			
AREA		TOWNSHIP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Washington		Mt. Bonaparte 15'		Washington		Okemagon								L. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
TP	1158	1155.8	73°15'45"	+19.4	13.3	86°30'	+70.7	+57.4	3862.2	3919.6	TP	-54	+1155	703,555	2,399,875
"	"	"	"	"	13.2	223°	+70.7	+57.5			TP				
BS	1916	1913.9	197°26'17"	--	9.9	92°40'	+89.1	+99.0			BS	+1532	+1148		
"	"	"	"	"	9.6	267°20'	+89.1	+98.2	4018.5		BS				
410	1771		196°52'	--	8.4	92°50'	-87.5	-95.9		3922.6		-1428	-1048	703,659	2,399,995
411	1446		195°03'	--	8.2	93°10'	-79.9	-88.1		3930.4		-1192	-818	703,895	2,400,225
412	1116		"	+19.4	8.2	93°40'	-71.4	-79.6		3938.9		-920	-631	704,167	2,400,412
413	786		"	--	10.1	93°40'	-50.3	-60.4		3958.1		-648	-445	704,439	2,400,598
414	456		"	--	10.2	93°40'	-29.2	-39.4		3979.1		-376	-258	704,711	2,400,785
415	126		"	--	8.7	92°	-4.4	-13.1		4005.4		-104	-71	704,983	2,400,972
X											X	0	0	705,087	2,401,043
416	204		26°13'	+19.4	6.3	87°40'	+8.3	+2.0		4020.5		+143	+146	705,230	2,401,189
417	534		"	--	8.7	87°40'	+21.7	+13.0		4031.5		+374	+382	705,461	2,401,425
Δ	708	707.4	25°22'23"	--	11.0	87°40'	+28.8	+17.8		4036.3	Δ	+502	+498	705,589	2,401,541
418	864		26°13'	--	8.5	88°	+30.2	+21.7		4040.2		+604	+617	705,691	2,401,660
419	1194		"	--	11.0	88°	+41.7	+30.7		4049.2		+835	+853	705,922	2,401,896
420	1524		"	--	6.2	88°	+53.2	+47.0		4065.5		+1066	+1089	706,153	2,402,132
421	1854		"	--	11.0	88°	+64.7	+53.7		4072.2		+1297	+1325	706,384	2,402,368
TP	1955	1953.8	25°33'34"	--	13.4	88°	+68.2	+54.8		4073.3	TP	+1383	+1381	706,470	2,402,424
TP	"		"		13.3	272°	+68.2	+54.9			TP				

705,665 x 2,401,590
? Sec line

SURVEY NOTES - HIGH RESOLUTION DATA

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
7-18-84		R. Towbridge		B. Cotcamp		6834		B.C.		1		38			
AREA		TOPO MAP		STATE		COUNTY		RANGE		PPM		PARTY MANAGER			
Washington		Mt. Bonaparte 15		Washington		Okanogan						L. Davis			
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
BS	792		210°34'31"	+19.4	5.4	90-		+5.4	4073.3	4073.3	BS	+509	+606		
"	"		"		5.2	270-		+5.2	4078.6		BS				
422	562		210°29'	"	7.2	90-		-7.2	4071.4			-362	-430	706617	2,402,606
423	232		212°51'	"	6.1	T.H.	+1.2	+4.9	4073.7			-142	-183	706837	2,402,847
TP											TP	0	0	706979	2,403,030
424	118		76°45'	+19.4	5.1	T.H.	+0.6	-4.5	4074.1			-13	+117	706966	2,403,147
425	446		69°13'	"	11.0	90-		-11.0	4067.6			+11	+446	706990	2,403,476
426	775		72°41'	"	17.6	90-		-17.6	4066.0			-28	+774	706951	2,403,804
427	1098		70°39'08"	"	11.9	90°50'	-16.0	-27.9	4050.7		TP	-1	+1098	706978	2,404,128
TP	"		"		15.0	268°20'	-12.8	-27.8			TP				
BS	1202		238°56'17"	+19.4	6.7	88°20'	+35.0	-28.3	4022.4		BS	+243	+1177		
BS	"		"		13.6	88°-	+41.9	-28.3			BS				
428	872		238°56'	"	6.0	88°20'	+25.4	+19.4	4041.8			-176	-854	707045	2,404,451
429	542		"	"	7.9	88°-	+18.9	+11.0	4033.4			-110	-531	707111	2,404,774
430	212		"	"	5.7	88°-	+7.4	+1.7	4024.1			-43	-208	707178	2,405,097
TP											TP	0	0	707221	2,405,305
431	116		41°33'	+19.4	5.3	92°0'	-4.4	-9.7	4012.7			+56	+101	707277	2,405,406
432	446		34°20'	"	7.9	92°10'	-16.9	-24.8	3997.6			+264	+360	707485	2,405,665
433	776		33°21'	"	11.5	93°-	-40.6	-52.1	3970.3			+470	+618	707691	2,405,923

SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
7-18-84		R. Trowbridge		B. Cotcamp		6834		B.C.		1		39			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Washington		Mt. Bonaparte's		Washington		Okemogon								L. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									4022.4						
TP	882	880.9	34°07'54"	+19.4	13.9	92°50'	-43.6	-57.5		3964.9	TP	+524	+708	707,745	2,406,013
"	"		"		13.8	267°10'	-43.6	-57.4			TP				
BS	1247	1246.0	252°35'19"	--	7.1	87°40'	-50.8	-43.7	3921.2		BS	-43	+1245		
"	"		"		3.5	87°50'	-47.1	-43.6			BS				
434	1042		257°00'	--	10.0	88°	+36.4	+26.4		3947.6		+116	-1036	707,818	2,406,222
435	733		264°04'	--	7.3	89°	+12.8	+5.5		3926.7		+171	-713	707,873	2,406,545
436	408		260°34'	--	5.9	89°	+7.1	+1.2		3922.4		+71	-402	707,773	2,406,856
437	80		250°20'	--	7.2	87°	+4.2	-3.0		3918.2		+0	-80	707,702	2,407,178
TP											TP	0	0	707,702	2,407,258
438	249		60°17'	+19.4	8.3	92°	-8.7	-17.0		3904.2		+45	+245	707,747	2,407,503
439	577		56°07'	--	8.1	92°	-20.1	-28.2		3893.0		+144	+559	707,846	2,407,817
440	902		50°28'11"	--	14.5	91°10'	-18.4	-32.9		3888.3	TP	+310	+847	708,012	2,408,105
TP	"		"		14.4	268°50'	-18.4	-32.8			TP				
BS	573		216°44'47"	--	12.9	88°10'	-18.3	-5.4	3882.9		BS	+319	+476		
"	"		"		9.6	88°30'	-15.0	-5.4			BS				
441	244		214°56'	+19.4	7.3	87°10'	+12.1	+4.8		3887.7		-142	-198	708,189	2,408,383
TP											TP	0	0	708,331	2,408,581
442	86		30°26'	--	10.8	90°		-10.8		3872.1		+55	+66	708,386	2,408,647
443	416		23°43'	--	10.3	92°20'	-16.9	-27.2		3855.7		+304	+284	708,635	2,408,865
444	746		"	--	8.2	92°20'	-30.4	-38.6		3844.3		+545	+510	708,876	2,409,091

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
7-18-84		R. Towbridge		B. Cotcamp		6834		W B.C.		1		40			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Washington		Mt. Bonaparte		Washington		Okanogan								L. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									3882.9						
445	1075		22°35'	+19.4°	8.4	92-	-37.5	-45.9		3837.0		+799	+719	709,130	2,409,300
446	1404	1403.1	21°14'58"	"	11.4	92-	-49.0	-60.42		3822.5	TP	+1065	+914	709,396	2,409,495
T.P.	"		"		11.3	268-	-49.0	-60.3			TP				
BS	434		186°31'36'	"	4.3	87-	-22.7	-18.4	3804.1		BS	+390	+189		
"	"		"		0.5	87°30'	-18.9	-18.4			BS				
Δ	258		188°53'00"	+19.4°	5.4	87-	+13.5	+8.1		3812.2	Δ	-227	-122	709,559	2,409,562
447	146		154°54'	"	11.6	87-	+7.6	-4.0		3800.1		-145	+15	709,641	2,409,699
π	-		-		-	-	-	-			π	0	0	709,786	2,409,684
448	329		78°44'	"	6.8	94-	-23.0	-29.8		3774.3		-47	+326	709,739	2,410,010
449	651		70°09'	"	11.2	93°10'	-36.0	-47.2		3756.9		+5	+651	709,791	2,410,335
450	981		"	"	7.9	92°50'	-48.5	-56.4		3747.7		+8	+981	709,794	2,410,665
451	1311		"	"	9.9	92°30'	-57.2	-67.1		3737.0		+10	+1311	709,796	2,410,995
452	1641		"	"	12.1	92°10'	-62.0	-74.1		3730.0		+13	+1641	709,799	2,411,325
453	1971		"	"	5.7	92°10'	-74.5	-80.2		3723.9		+15	+1971	709,801	2,411,655
454	2301	2299.6	70°16'12"	"	7.0	92-	-80.3	-87.3		3716.8	TP	+13	+2300	709,799	2,411,984
TP	"		"		7.1	268-	-80.3	-87.4			TP				
BS	750		279°48'28'	+19.7°	2.8	89°30'	-6.5	-3.7	3713.1		BS	-369	+653		
"	"		"		2.8	270°30'	-6.5	-3.7			BS				
455	423		281°25'	"	9.7	88°50'	+8.6	-1.1		3712.0		+219	-362	709,649	2,412,275
456	103		266°25'	"	5.9	88°50'	+2.1	-3.8		3709.3		+29	-99	709,459	2,412,538

Y - 709,550
X - 2,409,550

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
7-18-84		R. Trowbridge		B. Cotcamp		6834		W. B.C.		1	41				
AREA		TOPO MAP	STATE	COUNTY	TWP	RANGE	PPM	PARTY MANAGER							
Washington		Mt. Bonaparte	Washington	Okanogan				L. Davis							
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									3713.1						
457	225		63°06'	+19.7°	10.2	90°40'	-2.6	-12.8		3700.3	X	0	0	709430	2,412,637
458	555		"	"	10.7	71°00'	-9.7	-20.4		3692.7		+28	+223	709458	2,412,860
T.P.	710		66°31'06"	"	11.2	91°-	-12.4	-23.6			TP	+70	+551	709500	2,413,188
"	"		"	"	13.2	90°50'	-10.3	-23.5		3689.6	TP	+47	+708	709477	2,413,345
BS	2033		275°41'39"	"	7.5	88°50'	-41.4	-33.9			BS	-872	+1836		
"	"		"	"	7.6	271°10'	-41.4	-33.8		36558	BS				
459	1865		275°26'	+19.7°	12.1	88°40'	+43.4	+31.3		3687.1		+792	-1688	709397	2,413,493
460	1536		274°52'	"	7.0	88°50'	+31.3	+24.3		3680.1		+639	-1397	709244	2,413,784
461	1209		273°10'	"	6.8	88°50'	+24.6	+17.8		3673.6		+470	-1114	709075	2,414,067
462	931		263°39'	"	6.3	88°50'	+19.0	+12.7		3668.5		+215	-906	708820	2,414,275
Δ	850		260°07'48"	"	6.5	88°50'	+17.3	+10.8		3666.6	Δ	+145	-837	708750	2,414,344
463	660		250°18'	"	6.7	88°50'	+13.4	+6.7		3662.5		±0	-660	708605	2,414,521
464	330		248°15'	"	7.1	88°50'	+6.7	-0.4		3655.4		-12	-330	708593	2,414,851
465					5.2			-5.2		3650.6	X	0	0	708605	2,415,181
466	330		67°48'	+19.7°	8.4	90°20'	-1.9	-10.3		3645.5		+14	+330	708619	2,415,511
467	660		"	"	11.9	90°20'	-3.8	-15.7		3640.1		+29	+659	708634	2,415,840
Δ	989		66°42'58"	"	10.3	90°30'	-8.6	-18.9		3636.9		+62	+987	708667	2,416,168
468	990		67°48'	"	10.3	90°30'	-8.6	-18.9		3636.9		+43	+989	708648	2,416,170
469	1309		62°15'	"	7.4	90°30'	-11.4	-18.8		3637.0		+183	+1296	708788	2,416,477

5-708.685 x -2,414,330 Int.

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE					
7-19-84		R. Towbridge		B. Cotcamp		6834		L.B.C.		1		42					
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER			
Washington		Mt. Bonaparte		Washington		Okemagon								L. Lewis			
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		
									3655.8								
470	1637		61°55'	+19.7	10.6	90°30'	-14.3	-24.9		3630.9		+239	+1620	706844	2,416,801		
471	1967		61°21'	--	9.9	90°40'	-22.9	-32.8		3623.0		+306	+1943	7068911	2,417,124		
472	2294		59°55'	--	11.3	90°40'	-26.7	-38.0		3617.8		+413	+2256	709018	2,417,437		
473	2600		57°17'	--	12.4	90°40'	-30.3	+42.7		3613.1		+586	+2533	709191	2,417,714		
474	2906		54°39'	--	12.3	90°40'	-33.8	-46.1		3609.7		+784	+2798	709389	2,417,979		
475	3216		52°33'	--	12.6	90°40'	-37.4	-50.0		3605.8		+980	+3063	709585	2,418,244		
T.P.	3403		51°10'01"	--	14.0	90°45'	-44.5	-58.5		3597.3	TP	+1115	+3215	709720	2,418,396		
"	"		"		13.9	86°15'	-44.5	-58.4			TP						
BS	799	797.4	233°22'34"	+19.7	2.3	86°20'	-51.1	-48.8	3548.5		BS	+232	+763				
"	"		"		4.7	86°10'	+53.4	-48.7			BS						
476	663		233°39'	--	6.7	85°50'	+48.2	+41.5		3590.0		-190	-635	709762	2,418,524		
477	330		235°25'	--	7.9	85°50'	+24.0	+16.1		3564.6		-85	-319	709867	2,418,840		
478					5.2			-5.2		3543.3	X	0	0	709952	2,419,159		
479	330		65°48'	--	7.4	94°10'	-24.0	-31.4		3512.1		+26	+329	709976	2,419,488		
T.P.	576	574.8	60°26'17"	--	13.0	93°44'	-37.5	-50.5		3498.0	TP	+98	+566	710050	2,419,725		
"	"		"		19.4	93°36'	-36.2	-50.6			TP						
BS	925	922.8	183°19'57"	+19.7	9.1	86°-	-64.5	-55.4	3442.6		BS	+849	+361				
"	"		"		9.2	87°-	-64.5	-55.3			BS						
480	848		182°07'	--	7.8	86°-	+59.2	+51.4		3494.0		-787	-315	710112	2,419,771		
481	522		180°41'	--	8.1	86°-	+36.4	+28.3		3470.9		-489	-182	710410	2,419,904		

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
5-19-84		R. Towbridge		B. Cotcamp		6834		B.C. W		1		43				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
Washington		Mt. Bonaparte		Washington		Okanogan								L. Davis		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
482	192		184°24'	+19.7	8.3	84°40'	+17.9	+9.6	3442.6	3452.2	X	-175	-78	710,724	2,420,008	
483	145		28°56'	--	11.3	92°-	-5.1	-16.4		3426.2	X	+96	+109	710,899	2,420,086	
Δ	393		29°13'50"	--	10.0	92°40'	-18.3	-28.3		3414.3		+258	+296	711,157	2,420,382	711,125 x = 2,420,320
484	477		28°57'23"	--	14.0	92°-	-16.6	-30.6		3412.0	TP	+315	+358	711,214	2,420,444	Across St.
TP.	"		"		14.1	268°-	-16.6	-30.7			TP					
BS	1138	1136.3	224°33'21"	+19.7	5.5	86°50'	-62.9	-57.4	3354.6		BS	+494	+1023			
"	"		"		5.6	273°10'	-62.9	-57.3			BS					
485	807		224°40'	--	10.4	86°10'	+57.0	+43.6		3398.2		-349	-728	711,359	2,420,739	
486	477		"	--	10.1	86°40'	+27.7	+17.6		3372.2		-206	-430	711,502	2,421,037	
487	149		"	--	6.8	86°40'	+8.7	+1.9		3356.5		-64	-134	711,644	2,421,333	
Δ	122		232°08'36"	--	6.8	86°40'	+7.1	+0.3		3354.9		-38	-116	711,670	2,421,351	
X											X	0	0	711,708	2,421,467	
488	181		52°41'	+19.7	9.0	91°20'	-4.2	-13.2		3341.4		+55	+173	711,763	2,421,640	
489	511		"	--	9.1	91°50'	-16.4	-25.5		3329.1		+155	+487	711,863	2,421,954	
490	838		48°03'	--	20.6	91°06'	-16.1	-36.7		3317.9		+317	+776	712,025	2,422,243	
491	1154		5°-	--	2.1	91°40'	-33.6	-40.7		3313.9		+381	+1089	712,099	2,422,556	
TP	1266		49°48'29"	--	10.4	91°30'	-33.1	-43.5		3311.1	TP	+443	+1185	712,151	2,422,652	
"	"		"		14.-	91°20'	-29.5	-43.5			TP					

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE						
7-19-84		R. Townbridge		B. Cotcamp		6834		B.C. ^W		1		44						
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER				
Washington		Mt Bonaparte		Washington		Okanogan								L. Davis				
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS
												LAT.	DEP.	Y	X			
BS	866		189°33'36"	+19.7	8.7	88°40'	-20.2	-11.5	3299.6	3311.1	BS	+755	+423					
"	"		"	"	6.2	27°10'	-17.6	-11.4			BS							
492	676		189°26'	"	10.7	88°20'	+19.7	+9.0		3308.6		-590	-329	712316	2422.746			
493	347		189°33'	"	8.1	88°20'	+10.1	+2.0		3301.6		-303	-170	712603	2422.905			
494	44		124°15'	"	8.7	93°-	-2.3	-11.0		3288.6		-36	+26	712870	2423.101			
X	-		-		-	-	-	-			X	0	0	712906	2423.075			
495	329		39°42'	+19.7	2.8	93°20'	-19.1	-31.9		3267.7		+167	+283	713075	2423.358			
496	660		"	"	10.8	93°40'	-42.2	-53.0		3246.6		+336	+568	713242	2423.643			
497	990		"	"	9.3	93°40'	-63.3	-72.6		3227.0		+504	+852	713410	2423.927			
Δ	1087	1084.8	238°58'49"	"	9.5	93°40'	-69.5	-79.0		3220.6	Δ	+564	+927	713470	2424.002	Int.		
498	1320		39°42'	"	7.0	93°40'	-84.4	-91.4		3208.2		+672	+1136	713578	2424.211			
TP	1554	1551.4	39°29'00"	"	11.6	93°20'	-90.4	-102.0		3197.6	TP	+795	+1332	713701	2424.407			
"	"		"	"	11.5	216°40'	-90.4	-101.9		3197.7	TP							
BS	502		242°53'17"	+19.7	2.9	88°-	-17.5	-14.6	3183.1		BS	+65	+498					
"	"		"	"	2.9	272°-	-17.5	-14.6			BS							
499	397		239°49'	"	8.5	87°10'	+19.6	+11.1		3194.2		-72	-390	713694	2424.515			
500	67		239°49'	"	7.3	88°10'	+5.7	-1.7		3181.4		-12	-66	713754	2424.839			
X	-		-		-	-	-	-			X	0	0	713766	2424.905			
501	263		84°07'	"	11.0	90°-	-	-11.0		3172.1		-63	+255	713703	2425.160			

SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

DATE: 1-19-84 INSTRUMENT MAN: R. Trowbridge ROD MAN: B. Cotcamp PARTY NUMBER: 6834 NOTES CHECKED BY: B.C. LINE NO.: 1 PAGE: 45
 AREA: Washington TOPO MAP: Mt. Bonaparte STATE: Washington COUNTY: Okanogan TWP: RANGE: PPM: PARTY MANAGER: L. Davis

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH - LAT.	EAST + WEST - DEP.	COORDINATES		REMARKS
														Y	X	
502	593		79°15'18"	+19.7	13.4	92°10'	-22.4	-35.8	3183.1	3147.3	TP	-92	+585	713674	2,425,490	
"	"		"		14.8	92°02'	-21.0	-35.8			TP					
BS	797	795.9	286°16'25"	--	6.9	87°-	-41.7	-34.8	3112.5		BS	-468	+644			
"	"		"	--	6.9	273°	-41.7	-34.8			BS					
503	466		283°43'	--	6.6	86°40'	+27.1	+20.5		3133.0		+257	-389	713463	2,425,745	
504	136		"	--	6.9	85°-	+11.9	+5.0		3117.5		+75	-114	713281	2,426,020	
TP	-		-		-	-	-	-			TP	0	0	713206	2,426,134	
505	193		90°43'	+19.7	5.4	93°-	-10.1	-15.5		3097.0		-67	+181	713139	2,426,315	
506	521		81°37'	--	6.1	93°-	-27.3	-33.4		3079.1		-102	+511	713104	2,426,645	
507	852	850.8	82°00'00"	--	10.4	93°-	-44.6	-55.0	3057.7		TP	-173	+833	713033	2,426,967	
TP	"		"	--	10.1	267°-	-44.6	-54.7			TP					
BS	750	749.3	276°17'02"	--	6.0	87°30'	-32.7	-26.7	3031.0		BS	-328	+674			
"	"		"		8.2	87°20'	-34.9	-26.7			BS					
508	420		273°-	+19.7	12.7	87°20'	+19.5	+6.8		3037.8		+162	-387	712867	2,427,254	
509	92		256°50'	--	4.6	88°-	+3.2	+1.4		3029.6		+10	-91	712715	2,427,550	EOL Lme#1
TP	-		-		-	-	-	-			TP	0	0	712705	2,427,611	Traversing to Cont
TA	375		24°10'19"	--	9.1	92°40'	-17.5	-26.6		3004.4		+270	+260	712975	2,427,900	712,975 - 2,427,900 T - 270 CORR. Y = +34 CORR. X = -48
TP	466		21°14'43"		8.7	92°40'	-21.7	-30.4		3000.6	TP					
"	"		"		14.1	92°-	-16.3	-30.4			TP					

SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

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DATE 7-19-84	INSTRUMENT MAN R. Trowbridge	ROB. MAN. B. Cotcamp	PARTY NUMBER 6834	NOTES CHECKED BY LC	LINE NO. 1	PAGE 46
AREA Washington	TOPO MAP Mt. Bonaparte	STATE Washington	COUNTY Okanogan	TWP	RANGE	PPM
				PARTY MANAGER L. Davis		

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
BS	1362		187°09'50"		11.8	87°	-71.3	-59.5		3000.6					
"	"		"		11.6	223°	-71.3	-59.7	2941.0	2941.0	BS				
A	—		—		—	—	—	—	—	—	A				
A	32		249°51'57"		6.0	87°	+1.7	-4.3		2936.7	A				Setup on Section
A	851		310°10'24"		7.4	92°	-29.7	-37.1		2903.9					
BM	820		338°12'19"		3.7	92°	-28.6	-32.3		2908.7					El. 2908.7