

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
10.9.84		B. Cottramp		R. Trowbridge		6834		R.A.		1		1				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
IDAHO		Prater Mtn. - 7 1/2'		IDAHO		Bonner								L.O. Davis		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
K	u.s.c. + G.S.	Bm													EI = 2357.5	
BS	673				+6.2	93° 40'	+43.0	+49.2	2406.7		BS				even. traverse to	
BS	673				+6.1	266° 20'	+43.0	+49.1		BS						Sta. 1
TP	0				5.1	-		-5.1			TP					
TP	348				7.3	88° 20'	+10.1	+2.8	2409.5		TP					
TP	348				6.3	88° 30'	+9.1	+2.8		TP						
	1342				+5.0	89° 30'	-11.7	-6.7	2702.7		BS					
	1342				+4.7	270° 30'	-11.7	-7.0		BS						
TP	0				5.1	-		-5.1			TP					
TP	1357				8.0	96° 20'	-7.9	-15.9	2386.9		TP					
TP	1357				7.8	269° 40'	-7.9	-15.7		TP						
	339				+4.7	87°	-17.7	-13.0	2373.9		BS					
	339				+4.6	273°	-17.7	-13.1		BS						
TP	0 1194		0° 58' 17" (254° 09' 27")		5.1	91° 15'		-5.1			TP	+326	+1148	2429.5	232.248	Intersect
1	1053		0° 00' 00" (253° 11')		11.0	91°	-18.4	-29.4		2344.5		+305	-1008	2428846	231.240	0 00 00 start plates
2	723		- - - (- - -)		8.6	91° 30'	-18.9	-27.5		2346.4		-209	-692	2428942	231.556	SUNSHOR AZ. FOR START. (253° 11' 10")
3	393		1° 25' (254° 36')		10.0	92°	-13.7	-23.7		2350.2		+104	-379	2429047	231.869	
4	69		348° 10' (241° 21')		8.2	92°	-2.4	-10.6		2363.3		-33	-61	2429118	232.187	
5	284		230° 40' (123° 51')		7.2	86° 20'	+18.2	+11.0		2384.9		-158	+236	2428993	232.484	
TP	521		229° 29' 00"		6.2	87° 20'	+24.2	+18.0	2391.9	2391.9	TP	-281	+438	2428870	232.686	
TP	521		(122° 40' 10")		4.7	87° 30'	+22.7	+18.0		TP						

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE					
10.9.84		B. Cotcamp		R. Trowbridge		6834		R.T.		1		2					
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER			
WASH. IDAHO		Prater mtn. -7 1/2'		IDAHO		Bonner								L.O. Davis			
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS	
														Y	X		
									2391.9								
TP.	0		0 00 00														
6	93		177° 12' (119° 52')		5.3	89° 40'	+0.5	-4.8		2392.1		-46	+81	2428824	232.767		
7	423		" " (- -)		6.1	89° 40'	+2.5	-3.6		2393.3		-211	+367	2428659	233.053		
8	753		176° 20' (119° 00')		6.5	89° 40'	+4.4	-2.1		2394.8		-365	+659	2428505	233.345		
9	1083		175° 30' (118° 10')		6.3	89° 40'	+6.3	+0.0		2396.9		-511	+955	2428359	233.641		
10	1409		173° 22' 08"		5.6	89° 40'	+8.2	+2.6	+2.8	2399.7	TP	-619	+1266	2428251	233.952		
10	1409		(116° 02' 18")		5.3	270° 20'	+8.2	+2.9			TP						
TP.			0 00 00														
10	0				+5.15	M.		+5.2		2404.9				2428251	233.952		
11	330		165° 10' (101° 12')		6.8	89° 20'	+3.8	-3.0		2401.9		-64	+324	2428187	234.276		
12	660		" " (- -)		7.9	89° 20'	+7.7	-0.2		2404.7		-128	+647	2428123	234.599		
13	990		" " (- -)		8.1	89° 20'	+11.5	+3.4		2408.3		-192	+971	2428059	234.923		
14	1036		164° 41' 04" (100° 43' 22")		7.9	89° 20'	+12.1	+4.2		2409.1		-193	+1018	2428058	234.970		3-2428030 x -234975 4 way inter.
14	1317		163° 10' 52"		7.4	89° 20'	+15.4	+8.0	+8.1	2413.0	TP	-211	+1300	2428040	235.252		
14	1317		(99° 13' 10")		7.1	270° 40'	+15.4	+8.3			TP						
10			0 00 00														
14	0				+5.2	M.		+5.2		2418.2				2428040	235.252		
15	330		172° 50' (92° 03')		6.3	74	+1.7	-4.7		2413.5		-12	+330	2428028	235.582		
16	660		173° 25' (92° 38')		10.1	-		-10.1		2408.1		-30	+659	2428010	235.911		

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
10.9.84		B. Cotcamp		R. Trowbridge		6834		RT.		1		3				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
WASH. IDAHO		Prater mtns - 7 1/2		IDAHO		Bonnee								L.O. Davis		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	NORTH + SOUTH - LAT.	EAST + WEST - DEP.	COORDINATES		REMARKS
														Y	X	
									2418.2							
17	990		173° 25' (92° 38')		8.9	-		-8.9		2409.3		- 45	+ 989	2427995	236.241	
TP ₂	1443		173° 15' 09"		9.7	-		-9.7		2408.6	TP	-62	+1442	2427978	236.694	
TP ₂	1443		(92° 28' 17")		9.4	270°		-9.4			TP					
14			0 00 00													
TP ₂	0				+4.75	4.		+4.8		2413.4	T	0	0	2427978	236.694	
18	124		355° 16' (267° 38')		4.8	88° 36'	+3.0	-1.8		2411.6		- 5	-124	2427903	236.570	
19	210		207° 15' (119° 43')		5.9	89° 20'	+2.4	-3.5		2409.9		-104	+182	2427874	236.876	
20	540		- - (- -)		6.5	89° 20'	+6.3	-0.2		2413.2		-268	+469	2427710	237.163	
21	870		- - (- -)		4.4	89° 20'	+10.1	+5.7		2419.1		-431	+756	2427547	237.450	
22	1200		- - (- -)		4.3	89° 20'	+14.0	+9.7		2423.1		-595	+1042	2427383	237.736	
23	1530		206° 45' (119° 13')		8.9	89° 16'	+22.3	+13.4		2426.8	#	-746	+1335	2427232	238.029	
TP ₃	1698		206° 41' 16"		9.3	89° 16'	+24.8	+15.5		2429.1	TP	-827	+1483	2427151	238.177	
TP ₃	1698		(119° 09' 35")		9.0	270° 50'	+24.8	+15.8	+15.7		TP					
TP ₂			0 00 00													
TP ₃	0				+5.25	4.		+5.3		2434.4	T	0	0	2427151	238.177	
24	166		153° 55' (93° 05')		6.5	89° 20'	+1.9	-4.6		2429.8		- 9	+166	2427142	238.343	
25	496		- - (- -)		7.9	89° 20'	+5.8	-2.1		2432.3		- 27	+495	2427124	238.672	
26	826		- - (- -)		7.4	89° 20'	+9.6	+2.2		2436.6		- 44	+825	2427107	239.002	
TP ₄	963		159° 00' 50"		8.7	89° 20'	+11.2	+2.5	+2.6	2437.0	TP	-137	+953	2427014	239.130	
TP ₄	963		(98° 10' 25")		8.5	270° 40'	+11.2	+2.7			TP					

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTS CHECKED BY		LINE NO.		PAGE				
10-9-84		B. Cotcamp		R. Trowbridge		6834		R.T.		1		4				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
IDAHO		Prater mtn. - 7 1/2'		IDAHO		Bonner								L.O. Davis		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH - LAT.	EAST + WEST - DEP.	COORDINATES		REMARKS
														Y	X	
										2437.0						
TP ₃			0° 00' 00"													
TP ₄	0				+4.95	41	+5.0		2442.0		T	0	0	242,014	239,130	
27	197		156° 50' (75° 00')		7.3	89°	+3.4	-3.9		2438.1		+51	+190	242,065	239,320	
28	527		154° 40' (72° 50')		7.3	89°	+9.2	+1.9		2443.9		+156	+504	242,170	239,634	
TP ₅	763		151° 30' 20"		5.4	89° 20'	+8.9	+3.5		2445.5	TP	+265	+715	242,279	239,845	
TP ₅	763		(69° 40' 45")		5.3	270° 40'	+8.9	+3.6			TP					
TP ₄			0° 00' 00"													
TP ₅	0				+5.15	41	+5.2		2450.7		T	0	0	242,279	239,845	
29	91		180° 00' (69° 41')		5.8	89°	+1.6	-4.2		2446.5		+32	+85	242,311	239,930	
TP ₆	319		175° 55' 59"		4.7	-	-	-4.7		2446.0	TP	+132	+291	242,411	240,136	
TP ₆	319		(65° 36' 44")		6.3	TH	+1.6	-4.7			TP					
TP ₅			0° 00' 00"													
TP ₆	0				+5.05	41	+5.1		2451.1		T	0	0	242,411	240,136	
30	120		228° 15' (113° 52')		6.3	87° 30'	+5.2	-1.1		2450.0		-49	+110	242,362	240,246	
31	449		226° 55' (112° 32')		8.9	88° 30'	+11.8	+2.9		2454.0		-172	+415	242,239	240,551	
TP ₇	689		224° 28' 24"		6.8	89°	+12.0	+5.2		2456.3	TP	-237	+647	242,174	240,783	
TP ₇	689		(110° 05' 08")		6.7	271°	+12.0	+5.3			TP					
TP ₆			0° 00' 00"													
TP ₇	0				+5.3	41	+5.3		2461.6		T	0	0	242,174	240,783	
32	87		161° 05' (91° 10')		6.0	89° 20'	+1.0	-5.0		2456.6		-2	+87	242,172	240,870	

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
10.9.84		B. Cotcamp		R. Trowbr. Oge		6834		R.T.		1		5			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
IDAH0		Prater mtn. -7 1/2'		IDAH0		Bonner								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									2461.6						
33	414		151° 40' (81° 45')		6.3	89° 20'	+4.8	-1.5		2460.1		+59	+410	2427233	241,193
TP ₈	1220		151° 19' 35"		6.7	89° 10'	+17.8	+11.1		2472.7	TP	+182	+1206	2427356	241,989
TP ₈	1220		(81° 24' 43")		6.6	270° 50'	+17.8	+11.2			TP				
TP ₇			0 00 00												
TP ₈	0				+5.0	H.		+5.0	2477.9		X	0	0	2427356	241,989
34	489		3° 55' (265° 20')		13.0	-		-13.0		2464.7		-40	-487	2427316	241,502
35	179		24° 55' (286° 20')		9.1	-		-9.1		2468.6		+50	-172	2427416	241,817
36	176		157° 55' (59° 20')		6.9	89° -	+3.1	-3.8		2473.9		+90	+151	2427446	242,140
37	505		159° 05' (60° 30')		10.0	89° -	+8.8	-1.2		2476.5		+249	+440	2427605	242,429
38	818		168° 20' (69° 45')		11.8	89° -	+14.3	+2.5		2480.2		+283	+767	2427639	242,756
39	1141		172° 30' (73° 55')		11.0	89° -	+19.9	+8.9		2486.6		+316	+1096	2427672	243,085
40	1362		182° 12' (83° 37')		9.9	89° -	+23.8	+13.9		2491.6		+151	+1354	2427507	243,343
#	Consistent Slope Distances		190° 45'		13.0	88° 52'									
TP ₉	2014		193° 48' 11"		8.7	88° 50'	+41.1	+32.4		2510.1	TP	-183	+2005	2427173	243,994
TP ₉	2014		(95° 12' 54")		8.6	271° 10'	+41.1	+32.5			TP				
TP ₈			0 00 00												
TP ₉	0				+5.35	H.		+5.4	2515.5		X	0	0	2427173	243,994
41	426		10° 45' (285° 58')		9.1	91° 20'	-9.9	-19.0		2496.5		+117	-410	2427290	243,584
42	98		5° 30' (280° 43')		6.2	91° 20'	-2.3	-8.5		2507.0		+18	-96	2427191	243,898

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE					
10.9.84		B. Cotcamp		R. Trowbridge		6834		R.T.		1		6					
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER			
IDAMO		Prater, Mtn - 7 1/2		IDAMO		Bonner								L.O. Davis			
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH - LAT.	EAST + WEST - DEP.	COORDINATES		REMARKS	
														Y	X		
									2515.5								
43	228		185° 00' 01"		8.3	89° 30'	+2.0	-6.3	}	2509.2	TP	-40	+224	2427,133	244,218	ACROSS STR.	
43	228		(100° 12', 55")		8.2	270° 30'	+2.0	-6.2		TP							
TP9			0 00 00														
43	0				+5.25	Hi		+5.3	}	2514.5	TP	0	0	2427,133	244,218		
TP10	188		166° 15' 49"		2.7	91° -	-3.3	-6.0		TP	2508.5	TP	+12	+188	2427,145	244,406	
TP10	188		(86° 28', 44")		2.1	91° 10'	-3.8	-5.9	TP								
43			0 00 00														
TP10	0				+5.15	Hi		+5.2	}	2513.7	TP	0	0	2427,145	244,406		
44	141		194° 20' (100° 49')		5.2	89° -	+2.5	-2.7			2511.0		-26	+138	2427,119	244,544	
45	470		196° 15' (102° 44')		7.2	89° -	+8.2	+1.0		2514.7		-104	+458	2427,041	244,864		
TP11	657		194° 25' 20"		7.3	89° -	+11.5	+4.2	}	2517.9	TP	-124	+645	2427,021	245,051		
TP11	657		(100° 54', 04")		5.4	89° 10'	+9.6	+4.2		TP							
TP10			0 00 00														
TP11	0				+5.2	Hi		+5.2	}	2523.1	TP	0	0	2427,021	245,051		
46	141		173° 30' (94° 24')		6.6	89° -	+2.5	-4.1			2519.0		-11	+141	2427,010	245,192	
47	470		166° 45' (87° 39')		8.0	89° -	+8.2	+0.2		2523.3		+19	+470	2427,040	245,521		
TP12	551		166° 37' 41"		6.6	89° -	+9.6	+3.0	}	2526.1	TP	+24	+550	2427,045	245,601		
TP12	551		(87° 31', 45")		5.0	89° 10'	+8.0	+3.0		TP							
TP11			0 00 00														
TP12	0				+5.3	Hi		+5.3	}	2531.4	TP	0	0	2427,045	245,601		

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE					
10.9.84		B. Cotcamp		R. TrowBR.09e		6834		R.T.		1		2					
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER			
IDAMO		Prairie Mtn. - 7 1/2'		IDAMO		Bonner								L.O. Davis			
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	NORTH + SOUTH - LAT.	EAST + WEST - DEP.	COORDINATES		REMARKS	
														Y	X		
									2531.4								
48	248		195° 05' (102° 27')		6.2	89° -	+4.3	-1.9		2529.5		-54	+242	2426991	245843		
49	576		195° 00' (102° 32')		5.3	88° 30'	+15.1	+9.8		2541.2		-125	+562	2426920	246163		
50	905		194° 36' 15"		5.4	89° -	+15.8	+10.4		2541.8	TP	-190	+885	2426855	246484		
50	905		(102° 08' 00")		5.3	271° -	+15.8	+10.5			TP						
TP ₁₂			0 00 00														
50	0				+5.25	41		+5.3		2547.1	TP	0	0	2426855	246986		
51	330		163° 05' (85° 13')		5.6	88° 40'	+7.7	+2.1		2549.2		+28	+329	2426883	246815		
52	658		161° 05' (83° 08')		7.7	88° 40'	+15.3	+7.6		2554.7		+79	+653	2426934	247139		
53	988		161° 15' (83° 23')		5.1	89° -	+17.3	+12.2		2559.3		+114	+981	2426969	247467		
TP ₁₃	1154		161° 10' 17"		4.3	89° -	+20.2	+15.9	+14.0	2563.1	TP	+135	+1146	2426990	247632		
TP ₁₃	1154		(83° 18' 17")		4.1	271° -	+20.2	+16.1			TP						
50			0 00 00														
TP ₁₃	0				+4.85	41		+4.9		2568.0	TP	0	0	2426990	247632		
54	169		201° 35' (104° 53')		5.7	88° 30'	+4.4	-1.3		2566.7		-43	+163	2426974	247795		
55	498		203° 55' (107° 13')		6.5	88° 30'	+13.0	+6.5		2574.5		-147	+476	2426843	248108		
56	827		203° 10' (106° 28')		5.6	88° 30'	+21.7	+16.1		2584.1		-234	+793	2426756	248425		
TP ₁₄	943		203° 15' 53"		5.6	88° 30'	+24.7	+19.1	}	2587.1	TP	-269	+904	2426721	248536		
TP ₁₄	943		(106° 34' 10")		6.7	88° 26'	+25.8	+19.1			TP						
TP ₁₃			0 00 00														
TP ₁₄	0				+5.15	41		+5.2		2592.3	TP	0	0	2426721	248536		

Y = 2426,700 X = 248,500 # Section Line

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE					
10.9.84		B. Cotcamp		R. Trowbridge		6834		R.T.		1		8					
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER			
IDAHO		Prater with - 7/2		IDAHO		Bonner								L.O. Davis			
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH - LAT.	EAST + WEST - DEP.	COORDINATES		REMARKS	
														Y	X		
									2592.3								
Y	49		199° 10' 25" (125° 44' 35")		5.9	87° 30'	+2.1	-3.8		2588.5		-29	+40	2426.692	248.576	y = 2,426.670 x - 248.550 y - intersect	
TP ₁₅	164		200° 38' 12"		5.6	87° 30'	+7.2	+1.6		2593.9	TP	-99	+131	2426.622	248.667		
TP ₁₅	164		(127° 12' 22")		5.5	272° 30'	+7.2	+1.7			TP						
TP ₁₄			0 00 00														
TP ₁₅	0				+5.3	H.I.		+5.3	2599.2		π	0	0	2426.622	248.667		
57	54		190° 40' (137° 52')		5.7	87°	+2.8	-2.9		2596.3		-40	+36	2426.582	248.703		
TP ₁₆	347		164° 07' 27"		4.9	88° 40'	+8.1	+3.2		2602.4	TP	-126	+323	2426.496	248.990		
TP ₁₆	347		(118° 19' 49")		3.9	88° 50'	+7.1	+3.2			TP						
TP ₁₅			0 00 00														
TP ₁₆	0				+5.0	H.I.		+5.0	2607.4		π	0	0	2426.496	248.990		
58	35		215° 00' (146° 20')		5.7	88°	+1.2	-4.5		2602.9		-29	+19	2426.467	249.009		
59	360		186° 34' 22"		5.2	88°	+12.6	+7.4		2614.8	TP	-168	+318	2426.328	249.308		
59	360		(117° 54' 11")		4.2	88° 10'	+11.5	+7.3			TP						
TP ₁₆			0 00 00														
59	0				+5.05	H.I.		+5.1	2619.9		π	0	0	2426.328	249.308		
60	330		187° 15' (125° 09')		5.0	88°	+11.5	+6.5		2626.4		-190	+276	2426.136	249.578		
TP ₁₇	625		185° 57' 36"		4.7	88° 20'	+18.2	+13.5		2633.4	TP	-348	+519	2425.980	249.827		
TP ₁₇	625		(123° 51' 47")		6.5	88° 10'	+20.0	+13.5			TP						

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
10.10.84		B. Cotcamp		R. Trowbridge		6834		R.T.		1		9			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
IDAHO		Peater mtn. - 7 1/2'		IDAHO		Bonner								L.G. 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
			0° 00' 00"						2633.4						
59			0° 00' 00"												
TP ₁₇	0				+5.1	H.		+5.1	2638.5		TP	0	0	2425980	249.827
61	37		203° 55' (147° 47')		5.6	92° -	-1.3	-6.9		2631.6		-31	+20	2425949	249.847
TP ₁₈	145		166° 09' 56"		2.0	92° -	-5.1	-7.1		2631.4	TP	-50	+136	2425930	249.963
TP ₁₈	145		(110° 01' 43")		1.6	92° 10'	-5.5	-7.1			TP				
TP ₁₇			0° 00' 00"												
TP ₁₈	0				+5.2	H.		+5.2	2636.6		TP	0	0	2425930	249.963
62	209		157° 20' (87° 22')		5.9	-		-5.9		2630.7		+10	+209	2425940	250.172
TP ₁₉	319		150° 58' 49"		5.1	89° 20'	+3.7	-1.4		2635.2	TP	+50	+315	2425980	250.278
TP ₁₉	319		(81° 00' 32")		6.0	89° 10'	+4.6	-1.4			TP				
TP ₁₈			0° 00' 00"												
TP ₁₉	0				+5.1	H.		+5.1	2640.3		TP	0	0	2425980	250.278
63	211		160° 35' (61° 36')		5.8	87° -	+11.0	+5.2		2645.5		+100	+186	2426080	250.464
TP ₂₀	291		161° 44' 41"		4.3	87° -	+15.2	+10.9		2651.2	TP	+133	+258	2426113	250.536
TP ₂₀	291		(62° 45' 13")		3.5	87° 10'	+14.4	+10.9			TP				
TP ₁₉			0° 00' 00"												
TP ₂₀	0				+5.2	H.		+5.2	2656.4		TP	0	0	2426113	250.536
64	259		227° 28' 38"		3.0	87° -	+13.6	+10.6		2667.6	TP	-89	+243	2426024	250.779
64	259		(110° 13' 51")		2.3	87° 10'	+12.8	+10.5			TP				

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE					
10.10.84		B. Cotcamp		R. Trowbridge		6834		R.S.		1		10					
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER			
IDAHO		Prater Mtn. - T12		IDAHO		Bonner								L.O. Davis			
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	NORTH + SOUTH - LAT.	EAST + WEST - DEP.	COORDINATES		REMARKS	
														Y	X		
			0 00 00						2667.0								
TP20			0 00 00														
64	0				+5.05	H.		+5.1	2672.1		π	0	0	2426024	250.779	ACROSS STA.	
65	331		209° 15' (139° 29')		4.8	86° 20'	+21.2	+16.4	2688.5			-252	+215	2425772	250.994		
TP21	521		209° 04' 58"		5.9	86° 20'	+33.3	+27.4	2699.5		TP	-394	+339	2425630	251.118		
TP21	521		(139° 18' 49')		4.4	86° 30'	+31.8	+27.4			TP						
64			0 00 00														
TP21	0				+5.15	H.		+5.2	2704.7		π	0	0	2425620	251.118		
65	53		154° 29' 50" (113° 48' 39')		4.8	87° 14'	+2.6	-2.2	2702.5			-21	+48	2425609	251.166	Y-2,425,600 X-251,110 CREEK CROSSING	
66	131		156° 25' (115° 44')		4.8	86° 30'	+8.0	+3.2	2707.9			-57	+118	2425553	251.236		
TP22	270	268.8	171° 05' 51"		4.4	84° 40'	+25.1	+20.7	2725.4		TP	-174	+205	2425456	251.323		
TP22	270		(130° 24' 40')		5.2	84° 30'	+25.9	+20.7			TP						
TP21			0 00 00														
TP22	0				+5.25	H.		+5.3	2730.7		π	0	0	2425451	251.323		
67	182		188° 15' (138° 40')		7.4	86° 30'	+11.1	+3.7	2734.4			-137	+120	2425319	251.443		
68	511		188° 05' (138° 30')		7.9	85°	+44.5	+36.6	2767.3			-383	+339	2425073	251.662		
69	841		187° 55' (138° 20')		9.1	84° 30'	+80.6	+71.5	2802.2			-628	+559	2424828	251.882		
TP23	1012	1007.9	187° 10' 58"		7.5	84° 50'	+91.2	+83.7	2814.4		TP	-744	+680	2424712	252.003		
TP23	1012		(137° 35' 38')		10.4	84° 40'	+94.1	+83.7			TP						
TP22			0 00 00														
TP23	0				+5.05	H.		+5.1	2819.5		π	0	0	2424702	252.003		

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE					
10.10.84		B. Cotcamp		R. Trowbridge		6834		R.T.		1		11					
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER			
IDAHO		Prater mtv. - 7 1/2'		IDAHO		Bonner								L.O. Davis			
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH - LAT.	EAST + WEST - DEP.	COORDINATES		REMARKS	
														Y	X		
									2895								
70	160		150° 40' (108° 16')		5.4	84°	+16.7	+11.3		2830.8		-50	+152	242462	252,155		
71	484	480.9	146° 57' 56"		4.9	83° 30'	+54.8	+49.9		2869.4	TP	-121	+465	242459	252,468		
71	484		(104° 33' 34")		6.3	83° 20'	+56.2	+49.9			TP						
TP ₂₃			0° 00' 00"														
71	0				+5.1	M.		+5.1	28745		π	0	0	242459	252,468		
TP ₂₄	219	217.9	205° 51' 42"		6.0	84° 20'	+21.6	+15.6		2890.1	TP	-141	+166	242450	252,634		
TP ₂₄	219		(130° 25' 16")		5.3	84° 30'	+21.0	+15.7			TP						
71			0° 00' 00"														
TP ₂₄	0				+5.1	M.		+5.1	28952		π	0	0	242450	252,634		
72	111		182° 50' (133° 15')		4.9	89°	+1.9	-3.0		2892.2		-76	+81	242437	252,715		
TP ₂₅	338		174° 47' 19"		1.5	89°	+5.9	+4.4		2899.6	TP	-195	+276	242455	252,910		
TP ₂₅	338		(125° 12' 35")		2.5	88° 50'	+6.9	+4.4			TP						
TP ₂₄			0° 00' 00"														
TP ₂₅	0				+5.3	M.		+5.3	2904.9		π	0	0	242425	252,910		
73	104		150° 25' (95° 38')		6.1	89°	+1.8	-4.3		2900.6		-10	+104	242425	253,014		
74	434		147° 26' (92° 33')		6.7	86° 30'	+26.5	+19.8		2924.7		-19	+434	242423	253,344		
TP ₂₆	811	809.0	145° 32' 57"		7.1	86°	+56.6	+49.5		2954.4	TP	-11	+809	242424	253,719		
TP ₂₆	811		(90° 45' 32")		4.8	86° 10'	+54.2	+49.4			TP						
TP ₂₅			0° 00' 00"														
TP ₂₆	0				+5.15	M.		+5.2	2959.6		π	0	0	242424	253,719		

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOT CHECKED BY		LINE NO.		PAGE			
10.10.84		B. Cotcamp		R. Trowbridge		6834		R.T.		1		12			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
IDaho		Prater Mtn. - 7 1/2		IDaho		Bonneville								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH -	EAST + WEST -		Y
									2959.6						
75	51		4° 50' (275° 30')		6.3	94°	-36	-99		2949.7		+5	-51	2424249	253.668
TP ₂₇	250		218° 57' 05"		3.2	87°	+13.1	+99		2969.5	TP	-160	+192	2424084	253.911
TP ₂₇	250		(129° 42' 31")		3.9	86° 00'	+138	+99			TP				
TP ₂₄			0° 00' 00"												
TP ₂₇	0				+5.2	H.		+5.2	2974.7		T	0	0	2424084	253.911
76	38		218° 50' (168° 35')		6.3	86°	+2.7	-36		2971.1		-37	+8	2424047	253.919
77	363		196° 50' (146° 33')		7.5	86°	+25.3	+17.8		2992.5		-303	+200	2423981	254.111
TP ₂₈	450	1149.1	197° 08' 01"		4.9	86° 20'	+28.8	+23.9		2998.6	TP	-376	+246	2423708	254.157
TP ₂₈	450		(146° 50' 38")		6.2	86° 10'	+30.1	+23.9			TP				
TP ₂₇			0 00 00												
TP ₂₈	0				+5.05	H.		+5.1	3003.7		T	0	0	2423708	254.157
78	240		173° 30' (140° 21')		7.1	86° 30'	+14.7	+7.6		3011.3		-185	+153	2423523	254.310
79	568		174° 55' (141° 46')		6.8	85° 30'	+44.6	+37.8		3041.5		-446	+352	2423262	254.509
80	898		174° 40' (141° 31')		6.0	85° 6'	+75.7	+69.7		3073.4		-703	+559	2423005	254.716
TP ₂₉	1174	1169.8	174° 03' 40"		4.8	85° 10'	+98.9	+94.1		3097.8	TP	-908	+738	2422800	254.895
TP ₂₉	1174		(140° 54' 18")		6.8	85° 04'	+101.0	+94.2			TP				
TP ₂₈			0 00 00												
TP ₂₉	0				+5.05	H.		+5.1	3102.9		T	0	0	2422800	254.895
81	54		167° 30' (128° 24')		6.2	84°	+56	-0.6		3102.3		-34	+42	2422766	254.937
82	383		158° 30' (119° 24')		7.8	84° 40'	+356	+27.8		3130.7		-188	+334	2422622	255.229

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
10-10-84		B. Cotcamp		R. Trowbridge		6834		R.T.		1		13			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
IDAHO		Prairie Mtn. - 7 1/2		IDAHO		BONNER								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH -	EAST + WEST -		Y
			plates + (griots)						3102.9						
TP30	457	455.4	158° 20' 34"		6.6	85° 10'	+38.5	+31.9	}	3134.8	TP	-222	+397	2422578	255.292
TP30	457		(119° 14' 52")		5.3	85° 20'	+37.2	+31.9		TP					
TP29			0° 00' 00"												
TP30	0				+5.75	41'		+5.8	}	3140.6	TP	0	0	2422578	255.292
83	254		219° 36' (158° 45')		6.7	86° 30'	+15.6	+8.9		3149.5		-239	+93	2422339	255.385
TP31	380		217° 49' 16"		5.7	87° 10'	+18.8	+13.1	}	3153.7	TP	-350	+148	2422228	255.440
TP31	380		(157° 04' 08")		6.7	87° -	+19.9	+13.2		TP					
TP30			0° 00' 00"												
TP31	0				+5.25	41'		+5.3	}	3159.0	TP	0	0	2422228	255.440
84	207	206.4	162° 43' 03"		4.2	85° 40'	+15.6	+11.4		3170.4	TP	-158	+133	2422070	255.573
84	207		(137° 47' 11")		3.6	85° 50'	+15.0	+11.4			TP				
TP31			0° 00' 00"												
84	0				+4.9	41'		+4.9	}	3175.3	TP	0	0	2422070	255.573
85	329		174° 05' (133° 52')		6.4	86° -	+22.9	+16.6		3191.9		-228	+237	2421842	255.810
TP32	427	426.0	175° 55' 13"		4.7	86° -	+29.8	+25.1	}	3200.4	TP	-305	+297	2421765	255.870
TP32	427		(135° 42' 24")		3.5	86° 10'	+28.6	+25.1		TP					
84			0° 00' 00"												
TP32	0				+5.25	41'		+5.3	}	3205.7	TP	0	0	2421765	255.870
86	231		213° 00' (168° 42')		5.6	86° 40'	+13.4	+7.8		3213.5		-227	+45	2421538	255.915

ACROSS STA.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
10.10.84		B. Cotcamp		R. Trowbridge		6834		R.T.		1		14				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
IDAMO		Proter Mtn 25		IDAMO		Bonner								L.O. Davis		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	NORTH + SOUTH - LAT.	EAST + WEST - DEP.	COORDINATES		REMARKS
														Y	X	
									3205.7							
TP33	274		208° 48' 35"		5.5	86° 50'	+15.1	+9.6		3215.3	TP	-264	+73	2421501	255.943	
TP33	274		(164° 30' 59")		6.3	86° 40'	+15.9	+9.6			TP					
TP32			0 00 00													
TP33	0				+4.85	4.		+4.9	3226.2		T	0	0	2421501	255.943	
87	283		153° 22' 10"		7.6	86° -	+19.7	+12.1		3232.3	TP	-209	+189	2421292	256.132	
87	283		(137° 53' 09")		6.7	86° 10'	+18.9	+12.2			TP					
TP33			0 00 00													
87	0				+5.0	4.		+5.0	3237.3		T	0	0	2421292	256.132	
88	329		160° 34' 46"		6.6	88°	+11.5	+4.9		3242.2	TP	-157	+289	2421135	256.421	
88	329		(118° 27' 55")		5.6	88° 10'	+10.5	+4.9			TP					
87			0 00 00													
88	0				+5.15	4.		+5.2	3247.4		T	0	0	2421135	256.421	
IF	57		182° 16' (120° 38')		5.0	88° -	+2.0	-3.0		3244.4		-29	+49	2421106	256.470	Proter Mtn 2.5'
89	330		194° 10' (132° 38')		8.1	88° -	+11.5	+3.4		3250.8		-224	+243	2420911	256.664	Happy Fk Gap
	489		193° 19' 06" (131° 47' 01")		6.7	87° 10'	+24.2	+17.5		3264.9		-325	+364	2420710	256.785	Intersect
TP34	564		193° 36' 33"		4.5	87° 10'	+27.9	+23.4		3270.8	TP	-377	+418	2420756	256.839	
TP34	564		(132° 04' 28")		6.2	87° -	+29.5	+23.3			TP					
88			0 00 00													
TP34	0				+5.15	4.		+5.2	3276.0		T	0	0	2420756	256.839	
90	98		160° 10' (112° 14')		4.2	87° -	+5.1	+0.9		3276.9		-37	+91	2420721	256.930	

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
10.10.84		B. Cotcamp		R. Trowbridge		6834		R.N.		W		15				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
IDaho		Happy Fk. Gap		IDaho		Donner								L.O. Davis		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH -	EAST + WEST -		Y	X
			PLATES → (grids)						3276.0							
TP ₃₅	360		153° 34' 46"		5.9	88° 20'	+10.5	+4.6	}	3280.6	TP	-97	+347	2420.661	257.186	
TP ₃₅	360		(105° 39' 14")		6.9	88° 10'	+11.5	+4.6		TP						
TP ₃₄			0 00 00													
TP ₃₅	0				+5.0	H.		+5.0	}	3285.6	TP	0	0	2420.661	257.186	
91	72		138° 40' (64° 19')		6.4	88° -	+2.5	-3.9			3281.7		+31	+65	2420.692	257.251
92	399		127° 00' (52° 39')		5.2	86° -	+27.8	+22.6		3308.2		+242	+317	2420.703	257.503	
TP ₃₆	800	797.0	131° 55' 20"		3.1	85° -	+19.7	+66.6	}	3352.2	TP	+427	+673	2421.088	257.859	
TP ₃₆	800		(57° 34' 34")		5.4	84° 50'	+72.1	+66.7			TP					
TP ₃₅			0 00 00													
TP ₃₆	0				+5.35	H.		+5.4	}	3357.6	TP	0	0	2421.088	257.859	
93	80		5° 10' (242° 46')		6.7	95° -	-7.0	-13.7			3343.9		-37	-71	2421.051	257.788
94	250		183° 05' (60° 40')		6.8	84° 30'	+24.0	+17.2		3374.8		+122	+218	2421.210	258.077	
95	579	576.3	186° 22' 12"		6.0	84° 30'	+55.5	+49.5	}	3407.1	TP	+253	+518	2421.341	258.377	
95	579		(63° 56' 46")		4.3	84° 40'	+53.8	+49.5			TP					
TP ₃₆			0 00 00													
95	0				+5.1	H.		+5.1	}	3412.2	TP	0	0	2421.341	258.377	
96	331		196° 25' (80° 22')		4.4	86° -	+23.1	+18.7			3430.9		+55	+326	2421.346	258.703
TP ₃₇	484	482.8	195° 50' 34"		5.0	86° -	+33.8	+28.8	}	3441.0	TP	+86	+475	2421.427	258.852	
TP ₃₇	484		(79° 47' 20")		6.4	85° 50'	+35.2	+28.8			TP					

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
10.10.84		B. Cotcamp		R. Trowbridge		6834		R.T.		1		16			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
IDAH0		Happy Fork Gap DS		IDAH0		Bonner								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
										3441.0					
95			0° 00' 00"												
TP ₃₇	0				+5.15	4.		+5.2	3446.2		T	0	0	2421427 258,852	
97	184		205° 30' (105' 17")		6.1	89° -	+3.2	-2.9		3443.3		-49	+177	2421378 259,029	
98	513		201° 50' 34"		3.9	89° -	+9.0	+5.1		3451.3	TP	-103	+502	2421324 259,354	
98	513		(101° 37' 54")		2.4	89° 10'	+7.5	+5.1			TP				
TP ₃₇			0° 00' 00"												
98	0				+4.9	4.		+4.9	3456.2		T	0	0	2421324 259,354	
99	327		174° 06' 52"		5.4	89° 20'	+3.8	-1.6		3454.6	TP	-33	+325	2421291 259,679	
99	327		(95° 44' 46")		6.4	89° 10'	+4.8	-1.6			TP				
98			0° 00' 00"												
99	0				+4.85	4.		+4.9	3459.5		T	0	0	2421291 259,679	
100	324		216° 25' (132° 10')		6.9	-		-6.9		3452.6		-218	+240	2421073 259,919	
TP ₃₈	555		213° 04' 17"		4.0	89° -	+9.7	+5.7		3465.2	TP	-348	+432	2420943 260,111	
TP ₃₈	555		(128° 49' 03")		2.4	89° 10'	+8.1	+5.7			TP				
99			0° 00' 00"												
TP ₃₈	0				+5.25	4.		+5.3	3470.5		T	0	0	2420943 260,111	
101	93		142° 20' (91° 09')		5.5	85° -	+8.1	-2.6		3467.9		-2	+93	2420941 260,204	
TP ₃₉	551	549.7	138° 42' 12"		5.7	86° -	+38.4	+32.7		3503.2	TP	+24	+549	2420767 260,660	
TP ₃₉	551		(87° 31' 15")		4.1	86° 10'	+36.8	+32.7			TP				

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
10.10.84		B. Cotcamp		R. Trowbridge		6834		R.T.		1		17			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
IDAHO		Happy Fork Gap 75		IDAHO		Bonner								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
			0° 00' 00"						3503.2						
TP ₃₈															
TP ₃₉	0				+4.6	41'		+4.6	3507.8		T	0	0	2420967	260,660
102	132		351° 50' (259° 21')		7.4	93° -	-6.9	-14.3		3493.5		-24	-130	2420943	260,530
103	190		174° 30' (82° 01')		6.0	90° 40'	-2.2	-8.2		3499.6		+26	+188	2420993	260,848
104	518		173° 52' 21"		3.2	88° 40'	+12.1	+8.9		3516.7	TP	+78	+512	2421045	261,172
104	518		(81° 23', 36")		1.7	88° 50'	+10.6	+8.9			TP				
TP ₃₉			0° 00' 00"												
104	0				+5.1	41'		+5.1	35218		T	0	0	2421045	261,172
105	329		170° 00' (71° 24')		4.8	87° 50'	+12.4	+7.6		3529.4		+105	+312	2421150	261,484
TP ₄₀	481		172° 24' 26"		2.9	87° 50'	+18.2	+15.3		3537.1	TP	+134	+462	2421179	261,634
TP ₄₀	481		(73° 48', 02")		4.3	87° 40'	+19.6	+15.3			TP				
104			0° 00' 00"												
TP ₄₀	0				+5.05	41'		+5.0	3542.1		T	0	0	2421179	261,634
#	78		239° 21' 38" (133° 09' 40")		4.8	87° 30'	+3.4	-1.4		3540.7	#	-53	+57	2421126	261,691 # ^{2-2,421,150} X-261,630
106	197		238° 00' (131° 48')		5.4	86° 10'	+13.2	+7.8		3549.9		-131	+147	2421048	261,781
TP ₄₁	262	261.4	238° 32' 21"		6.3	86° 10'	+17.5	+11.2		3553.3	TP	-176	+193	2421003	261,827
TP ₄₁	262		(132° 20', 29")		5.5	86° 20'	+16.8	+11.3			TP				
TP ₄₀			0° 00' 00"												
TP ₄₁	0				+5.15	41'		+5.2	3558.5		T	0	0	2421003	261,827

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
10.10.84		B. Cotcamp		R. Trowbridge		6834		R.T.		1		18			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
IDAHO		Happy Fork Gap S		IDAHO		Bonner								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									3558.5						
106 107	265		194° 35' (146° 55')		7.2	88°	+9.2	+2.0		3560.5		-222	+145	2420,781	262,972
TP ₄₁	343		190° 11' 58"		1.8	89°	+6.0	+4.2		3562.7	TP	-272	+209	2420,731	262,036
TP ₄₂	343		(142° 32' 27")		2.8	88° 50'	+7.0	+4.2			TP				
TP ₄₁			0° 00' 00"												
TP ₄₂	0				+5.0	4'		+5.0	3567.7		T	0	0	2420,731	262,036
108	234		153° 59' 46"		3.9	89°	+4.1	+0.2		3567.9	TP	-105	+209	2420,726	262,245
108	234		(116° 32' 13")		3.3	89° 10'	+3.4	+0.1			TP				
TP ₄₂			0° 00' 00"												
108	0				+5.05	4'		+5.1	3573.0		T	0	0	2420,626	262,245
TP ₄₃	224		97° 12' 10"		5.0	88° 30'	+5.9	+0.9		3573.9	TP	+186	+124	2420,812	262,369
TP ₄₃	224		(33° 44' 23")		4.3	88° 40'	+5.2	+0.9			TP				
108			0° 00' 00"												
TP ₄₃	0				+5.2	4'		+5.2	3579.1		T	0	0	2420,812	262,363
109	144		275° 25' (129° 09')		6.9	88°	+5.0	-1.9		3577.2		-91	+112	2420,772	262,481
TP ₄₄	417		271° 58' 47"		7.5	87°	+21.8	+14.3		3593.4	TP	-243	+338	2420,569	262,707
TP ₄₄	417		(125° 43' 10")		6.2	87° 10'	+20.6	+14.4			TP				
TP ₄₃			0° 00' 00"												
TP ₄₄	0				+5.2	4'		+5.2	3598.6		T	0	0	2420,569	262,707
110	60		210° 00' (155° 43')		5.2	86°	+4.2	-1.0		3597.6		-55	+25	2420,514	262,732

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
10.10.84		B. Cotcamp		R. Trowbridge		6834		R.T.		1		19			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
IDAHO		Happy Fork Gap ^{2.5'}		IDAHO		Bonner								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									3598.6						
TP45	240		193° 15' 46"		3.2	88° -	+8.4	+5.2	}	3603.8	TP	-181	+157	2420,388	262,864
TP45	240		(138° 58' 56")		2.5	88° 10'	+7.7	+5.2		TP					
TP44			0 00 00												
TP45	0				+5.1	H.		+5.1	}	3608.9	TP	0	0	2420,388	262,864
111	145		158° 00' (116° 59')		6.9	89° -	+2.5	-4.4			3604.5		-66	+129	2420,322
#	225		141° 53' 25" (100° 52' 21")		5.1	89° -	+3.9	-1.2		3607.7	#	-42	+221	2420,346	263,085
TP46	360		140° 51' 09"		4.8	87° 50'	+13.6	+8.8	}	3617.7	TP	-61	+354	2420,327	263,218
TP46	360		(99° 50' 05")		3.7	88° -	+12.6	+8.9			TP				
TP45			0 00 00												
TP46	0				+5.1	H.		+5.1	}	3622.8	TP	0	0	2420,327	263,218
112	102		197° 30' (117° 20')		5.0	88° -	+3.6	-1.4			3621.4	#	-47	+91	2420,280
TP47	369		204° 36' 15"		2.5	87° -	+19.3	+16.8	}	3639.6	TP	-208	+304	2420,119	263,522
TP47	369		(124° 26' 20")		1.4	87° 10'	+18.2	+16.8			TP				
TP46			0 00 00												
TP47	0				+4.95	H.		+5.0	}	3644.5	TP	0	0	2420,119	263,522
113	49		162° 00' (106° 26')		5.0	86° -	+3.4	-1.6			3643.0		-14	+47	2420,105
114	374		147° 00' (91° 26')		12.7	86° 30'	+22.8	+10.1		3654.7		-9	+374	2420,110	263,896
1#	396		146° 04' 06" (90° 30' 26")		4.8	87° 34'	+16.8	+12.0		3656.6	1#	-4	+396	2420,115	263,918
TP48	592	591.2	148° 42' 04"		3.1	87° -	+31.0	+27.9	}	3672.4	TP	-32	+590	2420,087	264,112
TP48	592		(93° 08' 24")		4.8	86° 50'	+32.7	+27.9			TP				

4 - 2,420,105 x - 263,918
y - Intersect

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
10.10.84		B. Cotnam		R. Thowbridge		6834		R.T.		1		20			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
IDAHO		Happy Fork Gap		IDAHO		BONNER								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
										3672.4					
TP ₄₇			0° 00' 00"												
TP ₄₈	0				+5.1	H.		+5.1	3677.5		T	0	0	2420.087	264.112
115	110		198° 25' (111° 33')		5.0	87°	+5.8	+0.8		3678.3		-40	+102	2420.047	264.214
116	434		191° 33' 46"		5.5	86° 30'	+26.5	+21.0			TP	-110	+419	2419.977	264.531
116	434		(104° 42' 10")		6.7	86° 20'	+27.8	+21.1		3698.6	TP				
TP ₄₈			(0° 00' 00")												
116	0		(284° 40' 07")		+5.1	H.		+5.1	3703.7		T	0	0	2419.977	264.531
117	330		174° 05' (98° 45')		6.8	87°	+17.3	+10.5		3714.2		-50	+326	2419.927	264.857
11	482		172° 35' 00" (97° 15')		7.3	87°	+25.2	+17.9		3721.6		-61	+477	2419.916	265.008
TP ₄₉	555	554.2	174° 07' 44"		7.6	87°	+29.1	+21.5		3725.2	TP	-85	+548	2419.892	265.079
TP ₄₉	555		(98° 47' 51")		6.0	87° 10'	+27.4	+21.4			TP				
116			0° 00' 00"												
TP ₄₉	0				+5.15	H.		+5.2	3730.4		T	0	0	2419.892	265.079
118	107		204° 25' (123° 13')		5.5	86° 30'	+6.5	+1.0		3731.4		-59	+90	2419.833	265.169
TP ₅₀	336		196° 09' 25"		6.7	88°	+11.7	+5.0			TP	-142	+304	2419.750	265.383
TP ₅₀	336		(114° 57' 16")		5.7	88° 10'	+10.8	+5.1		3735.5	TP				
TP ₄₉			0° 00' 00"												
TP ₅₀	0				+5.15	H.		+5.2	3740.7		T	0	0	2419.750	265.383
119	99		168° 35' (103° 32')		5.6	88° 30'	+2.6	-3.0		3737.7		-23	+96	2419.727	265.479

Surveyed Azim. 104° 42' 6"
SUNSHOT AZIM. 104° 40' 0"
SURSHOT TAKEN

2-2419.905 x -265.000
3-Intersect

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
10-12-84		B. Cotcamp		R. Trowbridge		6834		R.T.		1		23			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
IDAMU		Happy Fork Gap		IDAMU		Conner								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH -	EAST + WEST -		Y
										3768.3					
TP57			0° 00' 00"												
TP58	0				+5.2	H.		+5.2	3773.5		T	0	0	2419.69 267.736	
127	40		204° 00' (121° 40')		4.8	89°	+0.7	-4.1	3769.4			-21	+34	2419.648 267.970	
11-	137		199° 11' 20" (116° 51' 13")		6.4	89°	+2.4	-4.0	3769.5		11-	-62	+122	2419.607 268.058	
TP59	168		197° 16' 42"		4.4	90° 10'	-0.5	-4.9	3768.6		TP	-71	+152	2419.598 268.088	
TP59	168		(114° 56' 35")		4.9	-		-4.9			TP				
TP58			0° 00' 00"												
TP59	0				+5.25	H.		+5.2	3773.8		T	0	0	2419.598 268.088	
128	201		170° 20' (105° 11')		7.1	92°	-7.0	-14.1	3759.7			-53	+194	2419.545 268.282	
TP60	249		169° 07' 15"		11.0	92°	-8.7	-19.7	3754.1		TP	-60	+241	2419.538 268.329	
TP60	249		(104° 03' 50")		6.7	93°	-13.0	-19.7			TP				
TP59			0° 00' 00"												
TP60	0				+5.1	H.		+5.1	3759.2		T	0	0	2419.538 268.329	
TP61	147	146.1	170° 28' 39"		4.3	96° 30'	-16.6	-20.9	3738.3		TP	-12	+146	2419.526 268.475	
TP61	147		(94° 34' 29")		4.7	96° 20'	-16.2	-20.9			TP				
TP60			0° 00' 00"												
TP61	0				+5.1	H.		+5.1	3743.4		T	0	0	2419.526 268.475	
129	130		147° 35' (62° 07')		5.9	94°	-9.1	-15.0	3728.4			+61	+115	2419.587 268.590	
TP62	175	174.3	144° 16' 36"		5.5	95°	-15.3	-20.8	3722.6		TP	+90	+149	2419.616 268.624	
TP62	175		(58° 49' 05")		5.0	95° 10'	-15.8	-20.8			TP				

4-2,419,605 x-268,030
11-T-TRAIL

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
10.12.84		B. Cotcamp		R. Trowbridge		6834		R.J.		1		24			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
IDAHO		Happy Fork Gap 2.5'		IDAHO		Bonnee								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									3522.6						
TP ₆₁			0° 00' 00"												
TP ₆₂	0				+4.95	H.		+4.9	3727.5		T	0	0	2419.66	268.624
TP ₆₃	211		197° 33' 30"		5.0	96° -	-22.1	-27.1		3700.4	TP	+49	+204	2419.65	268.828
TP ₆₃	211		(16° 22' 35")		4.3	96° 10'	-22.7	-27.0			TP				
TP ₆₂			0° 00' 00"												
TP ₆₃	0				+5.3	H.		+5.3	3705.7		T	0	0	2419.65	268.828
130	65		160° 50' (57° 13')		5.8	93° 40'	-4.2	-10.0		3695.7		+35	+55	2419.00	268.883
TP ₆₄	321	320.3	157° 43' 20"		6.5	93° 40'	-20.5	-27.0		3678.7	TP	+188	+259	2419.53	269.087
TP ₆₄	321		(54° 05' 55")		5.6	93° 50'	-21.5	-27.1			TP				
TP ₆₃			0° 00' 00"												
TP ₆₄	0				+5.05	H.		+5.0	3683.7		T	0	0	2419.53	269.087
131	73		193° 00' (67° 06')		5.2	96° -	-7.6	-12.8		3670.9		+28	+67	2419.881	269.154
TP ₆₅	211	209.8	196° 06' 08"		1.1	96° -	-22.1	-23.2		3660.5	TP	+71	+197	2419.924	269.284
TP ₆₅	211		(70° 12' 03")		0.4	96° 10'	-22.7	-23.1			TP				
TP ₆₄			0° 00' 00"												
TP ₆₅	0				+5.25	H.		+5.2	3665.7		T	0	0	2419.924	269.284
132	193		173° 00' (63° 12')		6.5	-	-6.5			3659.2		+87	+172	2420.011	269.456
TP ₆₆	306		173° 21' 12"		9.4	-	-9.4			3656.3	TP	+136	+274	2420.060	269.558
TP ₆₆	306		(63° 33' 15")		4.1	91° -	-5.3	-9.4			TP				

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
10.12.84		B. Cotcamp		R. TROWBRIDGE		6834		R.T.		1		25			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
IDAMG		Happy Fork Gap		IDAMO		Bonner								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
										3656.3					
TP65			0 00 00												
TP66	0			+ 5.3	Hi			+ 5.3	3661.6		π	0	0	2420060 269,558	
TP67	140		206° 20' 17"		8.2	96° -	-14.6	-22.8		3638.8	TP	± 0	+139	2420060 269,697	
TP67	140		(89° 53' 32")		5.8	97° -	-17.1	-22.9			TP				
TP66			0 00 00												
TP67	0			+ 5.25	Hi			+ 5.2	3644.0		π	0	0	2420060 269,697	
133	82		201° 00' (110° 54')		6.6	96° -	-8.6	-15.2		3628.8		- 29	+77	2420031 269,774	
TP68	207	208.9	199° 56' 09"		8.5	96° -	-21.6	-30.1		3613.9	TP	-70	+194	2419990 269,891	
TP68	207		(109° 49' 41")		4.9	97° -	-25.2	-30.1			TP				
TP67			0 00 00												
TP68	0			+ 5.05	Hi			+ 5.0	3618.9		π	0	0	2419990 269,891	
#	126		153° 48' 46" (83° 38' 27")		6.7	96° 30'	-14.3	-21.0		3597.9		+14	+124	2420004 270,015 # 4-2420,040 x-270,088	
134	204		155° 05' (84° 55')		4.8	96° 30'	-23.1	-27.9		3591.0		+ 18	+203	2420008 270,094	
TP69	359	357.6	149° 00' 11"		5.5	95° -	-31.3	-36.8		3582.1	TP	+69	+351	2420059 270,242	
TP69	359		(78° 49' 52")		4.4	95° 10'	-32.3	-36.7			TP				
TP68			0 00 00												
TP69	0			+ 5.1	Hi			+ 5.1	3587.2		π	0	0	2420059 270,242	
135	168		272° 00' (170° 50')		4.8	95° -	-14.6	-19.4		3567.8		- 166	+27	2419893 270,269	
TP70	213		268° 32' 06"		4.0	95° -	-18.6	-22.6		3564.6	TP	-207	+46	2419852 270,288	
TP70	213		(167° 21' 58")		3.4	95° 10'	-19.2	-22.6			TP				

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
10.12.84		B. Cotcamp		R. Trowbridge		6834		RS		1		26				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
JDAMD		Happy Park Gap		JDAMD		Bonner								L.O. Davis		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH - LAT.	EAST + WEST - DEP.	COORDINATES		REMARKS
														Y	X	
										3564.6						
TP ₆₉			0° 00' 00"													
TP ₇₀	0				+ 5.15	H.		+ 5.1	3569.7		π	0	0	2419852	270.288	
136	277		133° 35' (120° 57')		6.4	96°	-29.0	-35.4		3534.3		-142	+238	2419710	270.526	
TP ₇₁	340	338.1	133° 29' 10"		5.8	96°	-35.5	-41.3		3528.4	TP	-173	+290	2419679	270.578	
TP ₇₁	340		(120° 51' 08")		4.8	96° 10'	-36.5	-41.3			TP					
TP ₇₀			0° 00' 00"													
TP ₇₁	0				+ 5.15	H.		+ 5.1	3533.5		π	0	0	2419679	270.578	
TP ₇₂	172		187° 04' 04"		6.5	95°	-15.0	-21.5		3512.0	TP	-105	+135	2419574	270.713	
TP ₇₂	172		(127° 55' 12")		6.0	95° 10'	-15.5	-21.5			TP					
TP ₇₁			0° 00' 00"													
TP ₇₂	0				+ 5.0	H.		+ 5.0	3557.0		π	0	0	2419574	270.713	
137	94		139° 21' 32"		4.8	95°	-8.2	-13.0		3504.0	TP	+4	+94	2419578	270.807	
137	94		(87° 16' 44")		4.5	95° 16'	-8.5	-13.0			TP					
TP ₇₂			0° 00' 00"													
137	0				+ 5.05	H.		+ 5.0	3509.0		π	0	0	2419578	270.807	
TP ₇₃	236		135° 38' 28"		7.7	94°	-16.5	-24.2		3484.8	TP	+172	+160	2419750	270.967	
TP ₇₃	236		(42° 55' 12")		7.0	94° 10'	-17.1	-24.1			TP					
137			0° 00' 00"													
TP ₇₃	0				+ 5.1	H.		+ 5.1	3489.9		π	0	0	2419750	270.967	
138	88		222° 40' (85° 35')		6.5	96° 30'	-10.0	-16.5		3473.4		+7	+88	2419757	271.055	

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
10-12-84		B. Cotcamp		R. Trowbridge		6834		R.T.		1		2			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
IDAMO		Happy Fork Gap 25'		IDAMO		Banner								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH -	EAST + WEST -		Y
									3489.9						
TP ₁₄	237	235.5	222° 10' 54"		6.0	96° 30'	-26.8	-32.8		3457.1	TP	+20	+235	2419770	271,202
TP ₁₄	237		(85° α, α ₀)		5.3	96° 40'	-27.5	-32.8			TP				
TP ₁₃			0° 00' 00"												
TP ₁₄	0				+5.15	M.		+5.1	3462.2		TP	0	0	2419770	271,202
139	180		191° 00' (96° α ₀)		7.5	96° -	-18.8	-26.3		3435.9		-19	+179	2419751	271,381
140	510		192° 05' (97° 11')		5.7	96° -	-53.3	-59.0		3403.2		-64	+506	2419706	271,708
TP ₁₅	584	580.8	190° 11' 16"		4.9	96° -	-61.0	-65.9		3396.3	TP	-55	+578	2419715	271,780
TP ₁₅	584		(95° 23' 22")		3.2	96° 10'	-62.7	-65.9			TP				
TP ₁₄			0° 00' 00"												
TP ₁₅	0				+5.1	M.		+5.1	3401.4		TP	0	0	2419715	271,780
141	255		165° 50' (81° 13')		7.6	92° -	-8.9	-16.5		3384.9		+39	+252	2419754	272,032
142	584		162° 15' (77° 38')		6.5	92° -	-20.4	-26.9		3374.5		+125	+570	2419840	272,350
143	914		- - (- -)		7.1	92° -	-31.9	-39.0		3362.4		+196	+893	2419911	272,673
TP ₁₆	977		162° 13' 03"		7.1	92° -	-34.1	-41.2		3360.2	TP	+210	+954	2419925	272,734
TP ₁₆	977		(77° 36' 25")		4.3	92° 10'	-36.9	-41.2			TP				
TP ₁₅			0° 00' 00"												
TP ₁₆	0				+5.25	M.		+5.2	3365.4		TP	0	0	2419925	272,734
144	267		188° 00' (85° 36')		6.7	91° 40'	-7.8	-14.5		3350.9		+20	+266	2419945	273,000
145	593		186° 26' 58"		7.1	92° 10'	-22.4	-29.5		3335.9	TP	+61	+589	2419986	273,323
145	593		(84° 03' 23")		5.3	92° 20'	-24.1	-29.5			TP				

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
10.12.84		B. Cotcamp		R. Trowbridge		6834		R.J.		1		28			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
IDAHO		Happy Fork Gap		IDAHO		BONNER								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
										3335.9					
TP ₁₆			0 00 00												
145	0				+5.15	M.		+5.1	33341.0		T	0	0	2419986 273323	
TP ₁₇	136		147° 39' 59"		4.9	93° -	-7.1	-12.0		3329.0	TP	+84	+107	2420070 273,430	
TP ₁₇	136		(51° 43' 22")		4.5	93° 10'	-7.5	-12.0			TP				
145			0 00 00												
TP ₁₇	0				+5.0	M.		+5.0	33341.0		T	0	0	2420070 273,430	
146	189		148° 10' (19° 53')		6.1	92° -	-6.6	-12.7		3321.3		+178	+64	2420248 273,494	
TP ₁₈	163		216° 54' 56"		6.6	92° -	-5.7	-12.3		3321.7	TP	+4	+163	2420074 273,593	
TP ₁₈	163		(88° 38' 18")		6.1	92° 10'	-6.2	-12.3			TP				
TP ₁₇			0 00 00												
TP ₁₈	0				+4.8	M.		+4.8	33326.5		T	0	0	2420074 273,593	
A	354		115° 47' 25" (24° 25' 43")		4.8	89° -	+6.2	+1.4		3327.7		+322	+146	2420396 273,739	
147	325		120° 45' (29° 23')		6.7	89° -	+5.7	-1.0		3325.5		+283	+159	2420357 273,752	
148	0				4.8	-		-4.8		3321.7		0	0	2420074 273,593	
TP ₁₉	165		272° 05' 28"		2.9	89° -	+2.9	±0.0		3326.5	TP	-165	-2	2419909 273,590	
TP ₁₉	165		(180° 43' 46")		2.9	89° 10'	+2.4	±0.0			TP		-1		
TP ₁₈			0 00 00												
TP ₁₉	0				+5.15	M.		+5.1	3331.6		T	0	0	2419909 273,590	
149	135		169° 40' (110° 24')		6.5	92° -	-4.7	-11.2		3320.4		-47	+127	2419862 273,717	
150															

4-2420395x-273,770
creek crossing

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
10.12.84		B. Cotcamp		R. Trowbridge		6834		RTJ		1		29			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
IDAMO		Happy Fork Gap 25'		IDAMO		Bonner								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									3331.6						
150	468		103° 04' 16"		5.5	92° -	-116.3	-21.8		3309.8	TP	-112	+454	2419797	274.043
150	468		(103° 48' 02")		4.1	92° 10'	-177	-21.8			TP		-1		
TP79			0° 00' 00"												
150	0				+5.35	Hi.		+5.3	3331.6		T	0	0	2419797	274.043
151	330		183° 35' (107° 23')		8.3	93° -	-17.3	-25.6		3289.5		-99	+315	2419698	274.358
152	672	671.1	183° 40' 31"		3.1	93°	-35.2	-38.3		3276.8	TP	-202	+640	2419595	274.682
152	672		(107° 28' 33")		5.1	92° 50'	-33.2	-38.3			TP		-1		
150			0 00 00												
152	0				+5.2	Hi.		+5.2	3282.0		T	0	0	2419595	274.682
TP80	268		176° 25' 18"		4.2	93° -	-14.0	-18.2		3263.8	TP	-64	+260	2419531	274.941
TP80	268		(103° 53' 51")		3.4	93° 10'	-14.8	-18.2			TP		-1		
152			0 00 00												
TP80	0				+5.1	Hi.		+5.1	3268.9		T	0	0	2419531	274.941
153	65		216° 35' (134° 29')		5.7	93° -	-3.4	-9.1		3259.8		-46	+46	2419485	274.987
TP81	205		206° 28' 56"		5.1	93° -	-10.7	-15.8		3253.1	TP	-133	+156	2419398	275.096
TP81	205		(130° 22' 47")		4.5	93° 10'	-11.3	-15.8			TP		-1		
TP80			0 00 00												
TP81	0				+5.25	Hi.		+5.2	3258.3		T	0	0	2419398	275.096
154	195		199° 05' (149° 28')		5.8	94° -	-13.6	-19.4		3238.9		-169	+99	2419229	275.195

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE					
10.12.84		B. Cotcamp		R. Trowbridge		6834		R.T.		1		30					
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER			
IDAH0		Happy Fork Gap		IDAH0		Donner								L.O. Davis			
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH - LAT.	EAST + WEST - DEP.	COORDINATES		REMARKS	
														Y	X		
									3258.3								
TP82	421	420.0	198° 56' 23"		1.0	94° -	-29.4	-30.4		3227.9	TP	-361	+214	2419037	275,309		
TP82	421		(149° 19' 10")		8.3	93° -	-22.0	-30.3			TP		-				
TP82			0 00 00														2 on set-up points
TP82	0				+5.2	Mi		+5.2	3233.1		T	0	0	2419037	275,309		
155	103		171° 40' (140° 59')		5.7	89° -	+1.8	-3.9		3229.2		-80	+65	2418957	275,374		
156	432		166° 15' (135° 34')		5.7	89° -	+7.5	+1.8		3234.9		-308	+302	2418729	275,611		
TP83	509		164° 48' 42"		7.9	89° -	+8.9	+1.0		3234.1	TP	-354	+365	2418683	275,673		
TP83	509		(134° 07' 52")		6.4	89° 10'	+7.4	+1.0			TP		-				
TP82			0 00 00														
TP83	0				+5.1	Mi		+5.1	3239.2		T	0	0	2418683	275,673		
157	254		189° 06' (143° 08')		6.2	93° 30'	-15.5	-21.7		3217.5		-203	+152	2418480	275,825		
TP84	406		189° 05' 32"		3.8	93° -	-21.2	-25.0		3214.2	TP	-325	+243	2418358	275,915		
TP84	406		(143° 13' 24")		2.6	93° 10'	-22.4	-25.0			TP		-				
TP83			0 00 00														
TP84	0				+4.75	Mi		+4.7	3218.9		T	0	0	2418358	275,915		
158	162		170° 06' (133° 13')		6.5	96° -	-16.9	-23.4		3195.5		-111	+118	2418247	276,033		
159	479		154° 45' (117° 58')		7.0	94° 30'	-37.6	-44.6		3174.3		-225	+423	2418133	276,338		
TP85	519	517.4	153° 34' 03"		6.8	94° 30'	-40.7	-47.5		3171.4	TP	-233	+462	2418125	276,376		
TP85	519		(116° 47' 27")		8.3	94° 20'	-39.2	-47.5			TP		-				

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
10.14.84		B. Cotcamp		R. Trowbr. Oge		6834		R.T.		1		31			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
IDAMO		Happy Fork Gap-76		IDAMO		Booner								L.D. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
										3171.4					
TP84			0° 00' 00"												
TP85	0				+5.05	41		+5.0	3176.4		T	0	0	2418125 276.376	
TP86	191		131° 23' 34"		3.3	94° -	-13.3	-16.6	3159.8		TP	+71	+177	2418196 276.552	
TP86	191		(68° 11' 51")		2.7	94° 10'	-13.9	-16.6			TP		-1		
TP85			0° 00' 00"												
TP86	0				+5.1	41		+5.1	3164.9		T	0	0	2418196 276.552	
160	94		154° 56' (43° 01')		6.4	93° -	-4.9	-11.3	3153.6			+69	+64	2418265 276.616	
161	422		145° 00' (33° 11')		11.6	93° -	-22.1	-33.7	3131.2			+353	+231	2418549 276.783	
TP87	580	578.6	144° 26' 56"		2.5	94° -	-40.5	-43.0	3121.9		TP	+487	+312	2418683 276.863	
TP87	580		(32° 37' 57")		0.8	94° 10'	-42.1	-42.9			TP		-1		
TP86			0° 00' 00"												
TP87	0				+5.1	41		+5.1	3122.0		T	0	0	2418683 276.863	
162	176		213° 55' (66° 33')		5.4	93° 30'	-10.7	-16.1	3110.9			+70	+161	2418753 277.024	
163	506		212° 40' (65° 18')		9.3	93° 30'	-30.9	-40.2	3086.8			+211	+460	2418894 277.323	
TP88	726	724.7	211° 53' 54"		7.5	93° 30'	-44.3	-51.8	3075.2		TP	+312	+654	2418995 277.516	
TP88	726		(44° 31' 51")		5.4	93° 40'	-46.4	-51.8			TP		-1		
TP87			0° 00' 00"												
TP88	0				+5.1	41		+5.1	3080.3		T	0	0	2418995 277.516	
164	113		207° 10' (91° 42')		6.1	93° -	-5.9	-12.0	3068.3			-3	+113	2418992 277.629	

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
10-14-84		B. Cotcamp		R. Trowbridge		6834		RN		W		32			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
IDAMO		Happy Fork Gap-7 1/2'		IDAMO		BONNER								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH -	EAST + WEST -		Y
									3080.3						
TP ₈₉	423		203° 38' 19"		2.7	92°	-14.8	-17.5		3062.8	TP	+14	+423	2419010	277.938
TP ₉₀	423		(88° 10' 10")		1.5	92° 10'	-16.0	-17.5			TP	+1	-1		
TP ₈₈			0° 00' 00"												
TP ₈₉	0				+5.2	H.		+5.2	3068.0		T	0	0	2419010	277.938
165	19		151° 00' (59' 10")		5.5	88° 50'	+0.4	-5.1		3062.9		+10	+16	2419021	277.954
TP _{90/166}	341		143° 03' 53"		3.8	88° 30'	+8.9	+5.1		3073.1	TP	+213	+266	2419224	278.203
TP _{90/166}	341		(51° 14' 03")		2.8	88° 40'	+7.9	+5.1			TP	+1	-1		
TP ₈₉			0° 00' 00"												
TP _{90/166}	0				+4.95	H.		+4.9	3078.0		T	0	0	2419224	278.203
TP ₉₁	222		192° 24' 06"		4.2	90° 40'	-2.6	-6.8		3071.2	TP	+99	+199	2419324	278.401
TP ₉₁	222		(163° 38' 09")		4.8	90° 30'	-1.9	-6.7			TP	+1	-1		
166			0° 00' 00" ?												
TP ₉₁	0				+5.25	H.		+5.2	3076.4		T	0	0	2419324	278.401
167	229		63° 40' 12" (307° 18' 21")		7.8	-		-7.8		3068.6	M	+139	-182	2419463	278.219
167	137		58° 15' (302° 53')		7.2	-		-7.2		3069.2		+74	-115	2419398	278.286
168	194		239° 20' (122° 58')		7.1	93° 20'	-11.3	-18.4		3058.0		-106	+163	2419218	278.564
TP ₉₂	375	373.9	235° 06' 28"		6.1	94° 20'	-28.3	-34.4		3042.0	TP	-180	+328	2419145	278.728
TP ₉₂	375		(118° 44' 37")		5.0	94° 30'	-29.4	-34.4			TP	+1	-1		
TP ₉₁			0° 00' 00"												
TP ₉₂	0				+5.15	H.		+5.1	3042.1		T	0	0	2419145	278.728

4-2419500y-278.230
creek crossing

4-2419280x-278.726
T-Intersect

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
10-14-84		B. Cotcamp		R. Trowbridge		6834		R.T.		1		33			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
IDAMO		Happy Fork Gap-1/2		IDAMO		Bonneville								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									3047.1						
169	152		199° 50' (138° 35')		3.6	91°	-2.7	-6.3		3040.8		-114	+101	2419,031	278,829
TP ₉₃	176		192° 53' 03"		5.5	91°	-3.1	-8.6		3038.5	TP	-117	+132	2419,029	278,859
TP ₉₃	176		(131° 37' 40")		4.9	91° 10'	-3.6	-8.5			TP	+	-		
TP ₉₂			0 00 00												
TP ₉₃	0				+5.0	M.		+5.0		3043.5	T	0	0	2419,029	278,859
170	293		121° 15' (72° 53')		4.8	93° 20'	-17.0	-21.8		3021.7		+86	+286	2419,115	279,139
TP ₉₄	480		121° 08' 55"		2.3	93° 20'	-27.9	-30.2		3013.3	TP	+142	+458	2419,172	279,316
TP ₉₄	480		(72° 44' 35")		3.7	93° 10'	-26.5	-30.2			TP	+	-		
TP ₉₃			0 00 00												
TP ₉₄	0				+5.2	M.		+5.2		3018.5	T	0	0	2419,172	279,316
171	144		209° 20' (102° 07')		4.8	92°	-17.5	-22.3		2996.2		-30	+141	2419,142	279,457
TP ₉₅	237		209° 27' 47"		6.3	93°	-12.4	-18.7		2999.8	TP	-50	+231	2419,123	279,546
TP ₉₅	237		(102° 14' 22")		5.6	93° 10'	-13.1	-18.7			TP	+	-		
TP ₉₄			0 00 00												
TP ₉₅	0				+5.2	M.		+5.2		3005.0	T	0	0	2419,123	279,546
172	246		223° 00' (145° 14')		4.8	92° 44'	-11.7	-16.5		2988.5		-202	+140	2418,921	279,686
TP ₉₆	468		218° 38' 56"		6.3	92° 40'	-21.8	-28.1		2976.9	TP	-363	+295	2418,761	279,840
TP ₉₆	468		(140° 53' 18")		4.9	92° 50'	-23.1	-28.0			TP	+	-		
TP ₉₅			0 00 00												
TP ₉₆	0				+5.1	M.		+5.1		2982.0	T	0	0	2418,761	279,840

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
10.14.84		B. Cotcamp		R. Trowbridge		6834		B.T.		1		34			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
IDAMO		Happy Fork Gap-7 1/2		IDAMO		BANNER								L.D. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									2982.0						
173	106		157° 10' (118° 03')		6.5	91°	-1.8	-8.3		2973.7		-50	+94	2418,711	279,934
TP97	207		150° 42' 44"		8.0	91°	-3.6	-11.6		2970.4	TP	-76	+192	2418,686	280,031
TP97	207		(111° 36' 02")		7.4	91° 10'	-4.2	-11.6			TP	+	-		
TP96			0 00 00												
TP97	0				+5.0	M.		+5.0		2975.4	TP	0	0	2418,686	280,031
#	146		164° 02' 40" (95° 38' 42")		6.1	91° 30'	-3.8	-9.9		2965.5	#	-14	+145	2418,672	280,176 # y-2418,680 x-280,205
174	224		165° 45' (97° 21')		4.4	91°	-3.9	-8.3		2967.1		-29	+222	2418,657	280,253
TP94	425		165° 25' 05"		6.9	91°	-7.4	-14.3		2961.1	TP	-52	+422	2418,635	280,452
TP92	425		(97° 01' 07")		5.7	91° 10'	-8.6	-14.3			TP	+	-		
TP97			0 00 00												
TP98	0				+5.25	M.		+5.2		2966.3	TP	0	0	2418,635	280,452
175	130		194° 56' 24"		3.8	94°	-9.1	-12.9		2953.4	TP	-48	+120	2418,588	280,571
175	130		(111° 57' 31")		3.4	94° 10'	-9.4	-12.8			TP	+	-		
TP98			0 00 00												
175	0				+5.25	M.		+5.2		2958.6	TP	0	0	2418,588	280,571
176	330		143° 45' (75° 43')		8.4	91°	-5.8	-14.2		2944.4		+81	+320	2418,669	280,891
TP99	589		141° 56' 13"		7.8	91°	-10.3	-18.1		2940.5	TP	+163	+566	2418,752	281,136
TP99	589		(73° 53' 44")		6.0	91° 10'	-12.0	-18.0			TP	+	-		
175			0 00 00												
TP99	0				+5.35	M.		+5.3		2945.8	TP	0	0	2418,752	281,136

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
10.14.84		B. Cotcamp		R. Trowbridge		6834		R.T. W		1		35			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
IDAMO		Happy Fork Gap-7 1/2		IDA.		Bonner								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									2945.8						
177	68		179° 50' (73° 44')		6.3	-		-6.3		2939.5		+19	+65	2418771	281.201
178	393		164° 20' (58° 14')		13.2	-		-13.2		2932.6		+207	+334	2418959	281.470
179	720		165° 20' (59° 14')		4.8	90° 54'	-113	-16.1		2929.7		+368	+619	2419120	281.775
TP ₁	880		164° 32' 54"		3.7	91° -	-15.3	-19.0		2926.8	TP	+460	+750	2419213	281.885
TP ₁	880		(58° 26' 38")		3.6	269° -	-15.3	-18.9			TP	+1	-1		
TP ₁			0 00 00												
TP ₁	0				+5.25	M:		+5.2	2932.0		T	0	0	2419213	281.885
180	169		193° 15' (71° 42')		5.2	90° 40'	-2.0	-7.2		2924.8		+53	+166	2419263	282.045
11-	160		189° 17' 05" (67° 43' 43")		5.2	90° 40'	-1.9	-7.1		2924.9		+61	+148	2419274	282.033
181	496		192° 33' 57" (71° 00' 35")		10.1	90° 40'	-5.8	-15.9		2916.1	11-	+161	+469	2419374	282.354
TP ₂	614		191° 51' 56"		5.7	90° 40'	-7.1	-12.8			TP	+207	+578	2419421	282.462
TP ₂	614		(70° 18' 34")		7.5	90° 30'	-5.4	-12.9		2919.1	TP	+1	-1		
TP ₂	0		0 00 00		+5.3	M:		+5.3	2924.4		T	0	0	2419421	282.462
182	211		168° 10' (58° 29')		5.2	88° 30'	+5.5	+0.3		2924.7		+110	+180	2419531	282.642
TP ₃	320		165° 22' 39"		6.0	88° 30'	+8.4	+2.4		2926.8	TP	+180	+264	2419602	282.725
TP ₃	320		(55° 41' 13")		5.0	88° 40'	+7.4	+2.4			TP	+1	-1		
TP ₃			0 00 00												
TP ₃	0				+5.25	M:		+5.2	2932.0		T	0	0	2419602	282.725
183	220		205° 55' (81° 36')		4.8	89° 30'	+1.9	-2.9		2929.1		+32	+218	2419634	282.943

11-4-2419,275x-282,000
4-TRAIL

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY			LINE NO.		PAGE		
10.14.84		B. Cotcamp		R. Trowbridge		6834					1		36		
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
FOAHO		Happy Fork Gap-76		ID.		Banner								L.O.O.	
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
									2932.0						
184	548		202° 26' 32"		5.4	90° 20'	-3.2	-8.6		2923.4	TP	+113	+536	2419.716	283.260
184	548		(78° 07' 45")		7.0	90° 10'	-1.6	-8.6			TP	+1	-1		
TP3			0 00 00												
184	0				+5.25	M.		+5.2	2928.6		X	0	0	2419.716	283.260
185	328		187° 05' (85° 13')		8.5	91° -	-5.7	-14.2		2914.4		+27	+327	2419.743	283.587
TA1	694		185° 37' 11"		5.8	90° 40'	-8.1	-13.9		2914.7	TP	+76	+690	2419.793	283.949
TR1	694		(83° 44' 56")		3.8	90° 30'	-10.1	-13.9			TP	+1	-1		
184			0 00 00												
TR1	0				+4.85	M.		+4.8	2919.5		X	0	0	2419.793	283.949
186	47		328° 15' (232° 00')		9.7	-		-9.7		2909.8		-29	-37	2419.761	283.912
187	283		238° 05' (141° 50')		6.8	93° 20'	-16.5	-23.3		2896.2		-223	+175	2419.570	284.124
TP5	493		237° 23' 39"		6.5	93° 30'	-30.1	-36.6		2882.9	TP	-383	+309	2419.411	284.257
TR5	493		(141° 08' 35")		5.1	93° 40'	-31.5	-36.6			TP	+1	-1		
TR4			0 00 00												
TR5	0				+5.25	M.		+5.2	2888.1		X	0	0	2419.411	284.257
188	150		116° 05' (77° 14')		5.6	91° -	-2.6	-8.2		2879.9		+33	+146	2419.444	284.403
#	212		105° 18' 57" (60° 27' 32")		4.8	90° 38'	-2.3	-7.1		2881.0		+85	+194	2419.496	284.451
189	475		108° 41' 20"		6.5	89° 40'	+2.8	-3.7		2884.4	TP	+164	+446	2419.576	284.702
189	475		(69° 49' 55")		5.1	89° 50'	+1.4	-3.7			TP	+1	-1		

189-2419.415 X - 284.235
TP 4 WA

189-2419.485 X - 284.405
CREEK

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
10.14.84		B. Cotcamp		R. TROWBRIDGE		6834		R.S.		1		37			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
IDAMO		Happy Fork Gap - 7 1/2'		IDAMO		BANNER								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH -	EAST + WEST -		Y
										2884.4					
TP ₅			0° 00' 00"												
189	0				+5.1	M.		+5.1	2889.5		T	0	0	2419.576	284.702
190	332		217° 31' 45"		9.0	-		-9.0		2880.5	TP	-99	+317	2419.478	285.018
190	332		(107° 21' 46")		7.3	BH	-1.7	-9.0			TP	+	-		
189			0° 00' 00"												
190	0				+5.2	Hi		+5.2	2885.7		T	0	0	2419.478	285.018
191	328		196° 57' 52"		6.9	91° 40'	-9.5	-16.4			TP	-156	+289	2419.323	285.306
191	328		(118° 19' 32")		6.0	91° 50'	-10.5	-16.5		2869.2	TP	+	-		
190			0° 00' 00"												
191	0				+5.15	M.		+5.1	2874.3		T	0	0	2419.323	285.306
192	329		174° 10' (112° 30')		6.2	95° -	-28.7	-34.9		2839.4	#	-126	+304	2419.197	285.610 #
TP ₆	430		174° 02' 58"		4.8	95° -	-37.5	-42.3		2832.0	TP	-163	+396	2419.161	285.701
TP ₆	430		(112° 24' 30")		3.6	95° 10'	-38.7	-42.3			TP	+	-		
191			0° 00' 00"												
TP ₆	0				+5.15	M.		+5.1	2837.1		T	0	0	2419.161	285.701
193	233		200° 35' (132° 58')		7.2	93° -	-12.2	-19.4		2817.7		-159	+171	2419.002	285.872
TP ₇	398		201° 11' 23"		5.9	93° -	-20.8	-26.7		2810.4	TP	-274	+288	2418.888	285.988
TP ₇	398		(133° 33' 53")		4.7	93° 10'	-22.0	-26.7			TP	+	-		
TP ₆			0° 00' 00"												
TP ₇	0				+5.2	M.		+5.2	2815.6		T	0	0	2418.888	285.988

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
10.14.84		B. Cotcamp		R. Trowbridge		6834		R.T.		1		38			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
IDAHO		Happy Fork Gap-T ₂		IDAHO		Bonner								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH -	EAST + WEST -		Y
									2815.6						
194	165		198° 45' (152° 19')		5.5	91° 40'	-4.8	-10.3		2805.3		-146	+77	2418,742	286,065
TP ₉	350		195° 53' 24"		7.5	91° 40'	-10.2	-17.7		2799.9	TP	-301	+178	2418,588	286,165
TP ₈	350		(149° 27' 17")		6.5	91° 50'	-11.2	-17.7			TP	+1	-1		
TP ₈			0 00 00												
TP ₈	0				+5.1	H.		+5.1	2803.0		T	0	0	2418,588	286,165
195	132		119° 55' (89° 22')		5.0	95° -	-11.5	-16.5		2786.5		+1	+132	2418,589	286,297
TP ₉	242		111° 19' 04"		6.0	95° -	-21.1	-27.1			TP	+39	+238	2418,628	286,402
TP ₉	242		(80° 46' 21")		5.4	95° 10'	-21.8	-27.2		2775.8	TP	+1	-1		
TP ₈			0 00 00												
TP ₉	0				+5.1	H.		+5.1	2780.9		T	0	0	2418,628	286,402
196	230		216° 55' (117° 41')		8.8	95° -	-20.0	-28.8		2752.1		-107	+204	2418,521	286,606
197	560		" " (- -)		4.1	94° -	-39.1	-43.2		2737.7		-260	+496	2418,368	286,898
#1	581	579.7	216° 42' 08" (117° 28' 29")		4.8	93° 52'	-39.2	-44.0		2736.9	#1	-267	+514	2418,361	286,916
TP ₁₀	720		216° 15' 46"		5.6	94° 10'	-52.3	-57.9		2723.0	TP	-326	+640	2418,303	287,041
TP ₁₀	720		(117° 02' 01")		7.7	94° -	-50.2	-57.9			TP	+1	-1		
TP ₉			0 00 00												
TP ₁₀	0				+5.2	H.		+5.2	2728.2		T	0	0	2418,303	287,041
198	169		186° 50' (125° 52')		6.4	96° -	-17.7	-24.1		2704.1		-94	+140	2418,209	287,181
#2	158		183° 43' 50" (128° 45' 51")		4.8	96° 24'	-17.6	-22.4		2705.8		-80	+135	2418,223	287,176

Happy Fork Gap ↑
 $y = 2418,386x - 286,935$
 T-Intersect
 STAMP POINT ↓

$y = 2418,215x - 287,185$
 T-Intersect

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
10.14.84		B. Cotcamp		R. Trowbridge		6834		R.T.		1		37			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
IDAMO		Sandpoint - 7 1/2'		IDA.		Bonner								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH -	EAST + WEST -		Y
									2728.2						
TP ₁₁	327	325.0	188° 48' 47"		6.0	96° 24'	-36.4	-42.4		2685.8	TP	-190	+263	2418.114	287.303
TP ₁₁	327		(125° 59' 48")		5.4	96° 30'	-37.0	-42.4			TP	+1	-1		
TP ₁₀			0 00 00												
TP ₁₁	0				+5.25	Mi		+5.2	2691.0		T	0	0	2418.114	287.303
199	180		215° 50' (161° 41')		8.0	95° -	-15.7	-23.7		2667.3		-171	+57	2417.943	287.360
200	509		218° 10' (164° 01')		4.4	95° -	-44.4	-48.8		2642.2		-489	+140	2417.625	287.443
201	839	835.8	217° 44' 41"		7.6	95° -	-73.1	-80.7		2610.3	TP	-802	+236	2417.313	287.538
201	839		(163° 35' 29")		5.2	95° 10'	-75.5	-80.7			TP	+1	-1		
TP ₁₁			0 00 00												
201	0				+5.2	Mi		+5.2	2615.5		T	0	0	2417.313	287.538
202	327		173° 00' (156° 35')		6.4	96° -	-34.2	-40.6		2574.9		-300	+130	2417.013	287.668
TP ₁₂	433	430.5	169° 15' 22"		5.7	96° 10'	-46.5	-52.2		2563.3	TP	-383	+196	2416.931	287.733
TP ₁₂	433		(152° 59' 51")		4.4	96° 20'	-47.8	-52.2			TP	+1	-1		
201			0 00 00												
TP ₁₂	0				+5.05	Mi		+5.0	2568.3		T	0	0	2416.931	287.733
203	221		162° 30' (135° 21')		7.5	95° -	-19.3	-26.8		2541.5		-157	+155	2416.774	287.888
TP ₁₃	493	491.5	156° 18' 27"		6.9	94° 30'	-38.7	-45.6		2522.7	TP	-310	+381	2416.622	288.113
TP ₁₃	493		(129° 09' 18")		5.4	94° 40'	-40.1	-45.5			TP	+1	-1		
TP ₁₂			0 00 00												
TP ₁₃	0				+5.05	Mi		+5.0	2522.7		T	0	0	2416.622	288.113

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE					
10.14.84		B. Cotcamp		R. Trowbridge		6834		R.T.		1		40					
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER			
IDAMU		SAND POINT - 7 1/2'		IDAMU		BONNER								L.D. Davis			
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH - LAT.	EAST + WEST - DEP.	COORDINATES		REMARKS	
														Y	X		
									2527.7								
204	57		155° 15' (104° 24')		6.1	92° 30'	-2.5	-8.6		2519.1		-14	+55	2416.608	288.168		
205	387		160° 18' (109° 27')		13.1	92° 40'	-18.0	-31.1		2496.6		-129	+365	2416.493	288.478		
206	717		" " (-)		7.0	92° 46'	-33.3	-40.3		2487.4		-239	+676	2416.383	288.789		
41	735		159° 13' 58" (108° 23' 16")		6.7	92° 40'	-34.2	-40.9		2486.8	41	-232	+697	2416.390	288.810	y = 2416.390x - 288.810 41 - Intersect 2486.9	
TP ₁₂	998		157° 00' 09"		7.0	92° 20'	-40.6	-47.6		2480.1	TP	-277	+958	2416.345	289.071	Horiz +30 corr. x -42	
TP ₁₄	998		(106° 09' 27")		5.8	267° 36'	-41.8	-47.6			TP						
TP ₁₃			0 00 00														
TP ₁₄	0				+5.3	41		+5.3	2485.4		π	0	0	2416.345	289.071		
207	43		163° 55' (90° 04')		4.6	94° -	-3.0	-7.6		2477.8		±0	+43	2416.345	289.114		
208	373		" " (-)		5.3	94° -	-26.0	-31.3		2454.1		±0	+373	2416.345	289.444		
209	703		" " (-)		8.8	94° -	-49.0	-57.8		2427.6		-1	+703	2416.344	289.774		
TP ₁₅	1136	1132.8	163° 54' 23"		9.6	94° 20'	-85.8	-95.4	95.3	2390.1	TP	-1	+1133	2416.344	290.204		
TP ₁₅	1136		(90° 03' 50")		9.4	265° 46'	-85.8	-95.2			TP						
TP ₁₄			0 00 00														
TP ₁₅	0				+5.15	41		+5.1	2395.2		π	0	0	2416.344	290.204		
210	106		353° 30' (263° 34')		4.8	86° -	+7.4	+2.6		2397.8		-12	-105	2416.312	290.099		
211	239		211° 20' (121° 24')		9.3	94° -	-16.7	-26.0		2369.2		-125	+204	2416.219	290.408		
212	568		207° 20' (117° 24')		6.7	93° -	-29.7	-36.4		2358.8		-261	+504	2416.083	290.708		
213	898		206° 25' (116° 29')		9.3	92° -	-31.3	-40.6		2354.6		-400	+804	2415.944	291.008		

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
10.14.84		B. Cotcamp		R. Trowbridge		6834		RT		1		41			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
IDAMO		SANBPOINT-7 1/2'		IDAH0		Bonner								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH -	EAST + WEST -		Y
									2395.2						
TP ₁₆	1181	1180.0	207° 08' 16"		5.7	92° 20'	-48.1	-53.8		2341.4	TP	-539	+1050	2415,805	291,254
TP ₁₆	1181		(117° 12' 06")		9.1	92° 10'	-44.6	-53.7			TP				
TP ₁₅			0° 00' 00"												
TP ₁₆	0				+5.2	M.		+5.2	2346.6		π	0	0	2415,805	291,254
214	77		252° 10' (189° 22')		6.5	93°	-40	-10.5		2336.1		-76	+13	2415,229	291,241
215	404		247° 15' (184° 27')		6.6	93°	-21.1	-27.7		2318.9		-403	-31	2415,402	291,223
75	427		245° 52' 16" (183° 04' 22")		6.4	93°	-22.3	-28.7		2317.9	75	-426	-23	2415,379	291,231
TP ₁₇	609		244° 15' 06"		5.1	93°	-31.9	-37.0		2309.6	TP	-608	-15	2415,197	291,239
TP ₁₇	609		(181° 27' 12")		3.4	93° 10'	-33.6	-37.0			TP				
TP ₁₆			0° 00' 00"												
TP ₁₇	0				+5.15	M.		+5.1	2314.7		π	0	0	2415,157	291,239
41	42		10° 35' 36" (12° 02' 42")		5.2	88°	+1.5	-3.7		2311.0	41	+411	+9	2415,238	291,248
216	125		138° 05' (139° 32')		6.3	92° 50'	-6.2	-12.5		2302.2		-95	+81	2415,102	291,320
TP ₁₈	317	316.0	125° 50' 25"		4.3	94° 40'	-25.8	-30.1		2284.6	TP	-191	+251	2415,006	291,490
TP ₁₈	317		(127° 17' 37")		3.4	94° 50'	-26.7	-30.1			TP				
TP ₁₇			0° 00' 00"												
TP ₁₈	0				+5.25	M.		+5.2	2289.8		π	0	0	2415,006	291,490
217	130		147° 05' (94° 23')		7.9	96°	-13.6	-21.5		2268.3		-10	+130	2414,996	291,620
218	457		144° 05' (91° 23')		8.9	96°	-47.8	-56.7		2233.1		-11	+457	2414,995	291,947
219	787		143° 54' (91° 12')		10.8	94° 40'	-64.0	-74.8		2215.0		-16	+787	2414,990	292,277

Y = 2415,255 X = 291,235
T-Inter. El. 2310.0

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
10.14.84		B. Cotcamp		R. Trowbridge		6834		R.T.		1		42			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
IDAMO		Sandpoint-7 1/2		IDAMO		Bonner								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									2289.8						
220	1116		143° 50' (91° 08')		13.5	94°	-77.8	-91.3		2198.5		-22	+116	2414.984	292.606
221	1446		" " (")		12.2	94°	-100.8	-113.0		2176.8		-29	+1446	2414.977	292.936
222	1776		" " (")		12.1	93° 30'	-108.4	-120.5		2169.3		-35	+1776	2414.971	293.266
223	2106		" " (")		11.9	93° 04'	-112.6	-124.5		2165.3		-42	+2106	2414.964	293.596
224	2435		143° 46' (91° 04')		11.1	93°	-127.3	-138.4		2151.4		-45	+2435	2414.941	293.925
225	2765		" " (")		12.0	92° 50'	-136.5	-148.5		2141.3		-51	+2765	2414.955	294.255
#	2675	2671.3	143° 34' 48" (90° 52' 25")		7.2	93°	-139.9	-147.1		2142.7	#	-41	+2671	2414.965	294.161 # y=2414.980 x=294.190 T-intersect
226	3095		143° 46' (91° 04')		9.8	92° 40'	-143.8	-153.6		2136.3		-58	+3094	2414.948	294.584
227	3425		" " (")		9.8	92° 30'	-149.2	-159.0		2130.8		-64	+3424	2414.942	294.914
228	3754		" " (")		11.9	92° 20'	-152.5	-164.4		2125.4		-70	+3753	2414.936	295.243
229	4084		" " (")		4.8	92° 20'	-165.9	-170.7		2119.1		-76	+4083	2414.930	295.573
230	4414		143° 46' (91° 04')		5.7	92° 10'	-166.5	-172.2		2117.6		-82	+4413	2414.924	295.903
231	4744		" " (")		8.8	92°	-165.1	-173.9		2115.9		-88	+4743	2414.918	296.233
232	5073		" " (")		9.9	91° 54'	-167.7	-172.6		2112.2		-94	+5072	2414.912	296.562
#	4907	4904.0	143° 38' 55" (90° 56' 32")		5.1	92°	-170.8	-175.9		2113.9	#	-81	+4903	2414.925	296.393 # y=2414.940 x=296.395 pipeline el. 2114.0
233	5403		143° 46' (91° 04')		9.2	91° 46'	-166.0	-175.2		2114.6		-101	+5402	2414.905	296.892
234	5732		" " (")		9.9	91° 36'	-159.4	-169.3		2120.5		-107	+5731	2414.899	297.221
235	6061		" " (")		9.1	91° 30'	-157.9	-167.0		2122.8		-113	+6060	2414.893	297.550
236	6391		" " (")		10.8	91° 18'	-144.2	-155.0		2134.8		-119	+6390	2414.887	297.880
237	6720		" " (")		4.8	91° 09' 24"	-134.7	-139.5		2150.3		-125	+6719	2414.881	298.209

