

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
8-24-85		B. Cotcamp		B. SALDIVAR		6834		B. W.		1		1			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
MONTANA		CANUCK Peak 7 1/2'		Mont.		Lincoln								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
K, TP	y-intersect		Elevation, 5597.0	(Scaled)	y - 769.520	x - 428.280				5597.1	TP				Scaled y - 769.520 x - 428.280 y-inter, EL. 5597.0
	532	530.7	177 54 32	+24.8	10.7	94 -	+37.1	+47.8	5644.9		BS	+490	+205		
	532				+10.6	266 -	+37.1	+47.7			BS				
K	0				-5.1	-		-5.1		5,639.8	K	0	0	770,010	428,485
TP	621	619.7	353 29 04	--	7.2	86 20	+39.7	+32.5			TP	+588	+194	770,598	428,679
TP	621				7.1	273 40	+39.7	+32.6		5677.5	TP				
	768	767.3	253 32 10	--	9.9	92 30	+38.5	+43.4	5720.9		BS	-111	+759		
	768				9.8	267 30	+33.5	+43.3			BS				
1	802	800.9	248 30	--	8.7	93 -	-42.0	-50.7		5670.2		+46	-800	770,533	428,638
2	512	510.8	236 50	--	8.4	94 -	-35.7	-44.1		5676.8		-74	-505	770,413	428,933
3	196		234 20	--	9.1	94 -	-13.7	-22.8		5698.1		-37	-192	770,450	429,246
K	0				5.1	-		-5.1		5715.8	K	0	0	770,487	429,438
4	138		92 30	+24.8	5.7	85 -	+12.0	+6.3		5727.2		-63	+123	770,424	429,561
TP	432	430.4	94 44 40	--	5.9	85 -	+37.7	+31.6			TP	-212	+374	770,275	429,812
TP	432				5.8	275 -	+37.7	+31.9		5752.8	TP				
	576	574.6	253 41 42	--	11.2	74 -	+40.2	+51.4	5804.2		BS	-85	+568		
	576				11.1	266 -	+40.2	+51.3			BS				
5	539	537.3	254 20	--	6.2	94 30	-42.3	-48.5		5755.7		+85	-530	770,275	429,850
6	211	210.4	248 45	--	5.6	94 30	-16.6	-22.2		5782.0		+13	-216	770,203	430,170
K	0				5.1	-		-5.1		5799.1	K	0	0	770,190	430,380
7	119		61 05	--	5.8	86 -	+8.3	+2.5		5806.7		+9	+119	770,199	430,499

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8-24-85		B. Cotcamp		B. SALDIVAR		6834		B. S. K		1		2			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
MONTANA		CANUCK Peak-7 1/2'		MONT.		LINCOLN								W. CASSIDY	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									5804.2						
8	447	445.9	55 05	+24.8	7.7	86 -	+31.2	+23.5		5827.7		+78	+439	770,268	430,819
TP	628	626.5	55 44 58	-	6.2	86 -	+43.8	+37.6			TP	+103	+618	770,293	430,998
TP	628				6.1	274 -	+43.8	+37.7		5841.9	TP				
	522	520.7	258 16 22	-	+6.3	94 -	+36.4	+42.7	5884.6		BS	-118	+507		
	522				+6.2	266 -	+36.4	+42.6			BS				
9	374	373.1	255 40	-	6.7	94 -	-26.1	-32.8		5851.8		+68	-367	770,243	431,138
10	43		260 -	-	6.4	94 -	-3.0	-9.4		5875.2		+11	-42	770,186	431,463
π	0				5.1	-		-5.1		5879.5	π	0	0	770,175	431,505
11	297	294.8	145 50 03	+24.8	13.3	83 -	+36.2	+22.9			TP	-291	+48	769,884	431,553
11	297				13.2	277 -	+36.2	+23.0		5907.6	TP				
	299	298.3	343 28 30	-	+12.4	94 -	+20.9	+33.3	5940.9		BS	-295	-43		
	299				+12.3	266 -	+20.9	+33.2			BS				
12	0				5.1	-		-5.1		5935.8	π	0	0	769,589	431,510
13	292	289.8	158 28 09	-	11.6	83 -	+35.6	+24.0			TP	-289	-17	769,300	431,493
13	292				11.5	277 -	+35.6	+24.1		5965.0	TP				
	214	213.5	268 17 36	-	+10.5	94 -	+14.9	+25.4	5990.4		BS	-84	+196		
	214				+10.4	266 -	+14.9	+25.3			BS				
π	0				5.1	-		-5.1		5985.3	π	0	0	769,216	431,689
14	108		53 35	-	5.8	86 -	+7.5	+1.7		5992.1		+22	+106	769,238	431,795

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8-24-85		B. Cotcamp		B. Saloivar		6834		B. S. L.		2		3			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
MONTANA		CANUCK Peak-7 1/2		mont.		LINCOLN								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									5990.4						
TP	312		26 56 28	+24.8	5.6	87 30	+13.6	+8.0	}	5998.4	TP	+193	+245	769,409	431,934
TP	312				6.5	87 20	+14.5	+8.0		TP					
	311		293 30 40	-	+12.2	93 -	+16.3	+28.5	}		BS	-232	+207		
	311				+12.3	267 -	+16.3	+28.6		6027.0	BS				
15	191		296 25	-	9.3	93 30	-11.7	-21.0		6006.0		+149	-120	769,326	432,021
X	0				5.1	-		-5.1		6021.9	X	0	0	769,177	432,141
16	135		85 15	-	6.0	88 30	+3.5	-2.5		6024.5		-46	+127	769,131	432,268
17	454		69 10	-	7.2	87 30	+19.8	+12.6		6039.6		-31	+453	769,146	432,594
TP	512		69 19 43	-	7.1	87 30	+22.3	+15.2	}		TP	-37	+510	769,140	432,651
TP	512				7.0	272 30	+22.3	+15.3		6042.3	TP				
	378		227 19 37	+24.8	8.5	93 -	+19.8	+28.3	}	6070.6	BS	+116	+359		
	378				8.4	267 -	+19.8	+28.2		BS					
18	118		227 55	-	7.7	93 20	-6.9	-14.6		6056.0		-35	-113	769,221	432,897
X	0				5.1	-		-5.1		6065.5	X	0	0	769,256	433,010
19	220		116 45	-	5.2	87 40	+9.0	+3.8		6074.4		-157	+154	769,099	433,164
TP	359		111 03 27	-	9.0	88 10	+11.5	+2.5	}		TP	-257	+256	768,999	433,260
TP	359				8.9	271 50	+11.5	+2.6		6073.2	TP				
	206		327 25 14	-	2.7	89 -	-3.6	-0.9	}	6072.3	BS	-204	+28		
	206				2.1	89 10	-3.0	-0.9		BS					
20	24		341 20	-	10.0	89 10	+0.3	-9.7		6062.6		+24	+3	768,819	433,231

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8-24-85		B. Cotcamp		B. SALDIVAR		6834		B.S. W		1		4			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
MONTANA		Carrick Peak-7 1/2		Mont.		LINCOLN								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									6072.3						
π	0				5.1	-		-5.1		6067.2	π	0	0	768,795	433,288
21	317	315.7	64° 40'		6.3	95° 10'	-28.5	-34.8		6037.5		+3	+316	768,798	433,604
TP	350	348.6	66° 15' 06"		5.8	95° 10'	-31.5	-37.3	}	6035.0	TP	-6	+349	768,789	433,637
	111		261° 16' 16"		+2.3	88° 10'	-3.6	-1.3		6033.7	BS	-31	+107		
π	0				5.1	-		-5.1		6028.6	π	0	0	768,758	433,744
22	177		61° 55'		7.0	94° 40'	-14.4	-21.4		6012.3		+10	+177	768,768	433,921
23	506	503.9	58° 10'		6.4	95° 10'	-45.6	-52.0		5981.7		+62	+500	768,820	434,244
24	836	833.2	58° 29' 58"		10.3	94° 40'	-68.0	-78.3	}	5955.4	TP	+97	+828	768,855	434,572
	557	555.6	249° 20' 04"		+5.0	86° -	-38.9	-33.9		5921.5	BS	-40	+554		
25	226		248° 35'		6.6	86° 10'	+15.1	+8.5		5930.0		+13	-226	768,828	434,900
π	0				5.1	-		-5.1		5916.4	π	0	0	768,815	435,126
26	108		95° 40'		6.1	94° -	-7.5	-13.6		5907.9		-55	+93	768,760	435,219
TP 27	432	430.6	94° 40'		7.0	94° 40'	-35.1	-42.1		5879.4		-212	+375	768,603	435,501
TP	457	455.9	92° 31' 46"		7.5	94° -	-31.9	-39.4	}		TP	-209	+405	768,606	435,531
TP	457				7.4	266° -	-31.9	-39.3		5882.2	TP				
	298		244° 24' 09"		+2.4	87° -	-15.6	-13.2	}	5869.0	BS	+4	+298		
	298				+2.3	273° -	-15.6	-13.3				BS			

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8-24-85		B. Cotcamp		B. SALDIVAR		6834		B. SLK		1		5			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
MONTANA		CANUCK Peak 7 1/2'		mont.		LINCOLN								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									5869.0						
28	0				5.1	-		-5.1		5863.9		0	0	768,610	435,829
29	328	327.2	76° 10'	+24.8	4.0	94°	-22.9	-26.9		5842.1		-62	+321	768,548	436,150
30	658	656.7	75° 30'		6.6	93° 34'	-40.9	-47.5		5821.5		-117	+646	768,493	436,475
TP	765	763.5	74° 25' 28"	-	8.4	93° 30'	-46.7	-55.1			TP	-122	+754	768,488	436,583
TP	765				8.3	266° 30'	-46.7	-55.0		5814.0	TP				
	303	301.9	237° 26' 36"	-	11.8	85°	-26.4	-14.6	5799.4		BS	+41	+299		
	303				11.8	275°	-26.4	-14.6			BS				
31	114		267° 30'	-	10.8	82° 20'	+15.2	+4.4		5803.8		+43	-105	768,572	436,777
X	0				5.1	-		-5.1		5794.3	X	0	0	768,529	436,882
32	198	195.4	79°	-	11.6	99° 20'	-32.1	-43.7		5755.7		-47	+190	768,482	437,072
33	527	521.4	82° 45'	-	5.9	98° 20'	-76.4	-82.3		5717.1		-157	+497	768,372	437,379
TP	710	704.5	82° 35' 36"	-	5.9	97° 10'	-88.6	-94.5			TP	-211	+672	768,318	437,554
TP	710				5.8	262° 50'	-88.6	-94.4		5705.0	TP				
	186	183.2	289° 01' 57"	+24.8	6.2	80°	-32.3	-26.1	5678.9		BS	-127	+132		
	186				6.1	280°	-32.3	-26.2			BS				
34	39		289°	-	4.1	89°	+0.7	-3.4		5675.5		+27	-28	768,218	437,658
X	0				5.1	-		-5.1		5673.8	X	0	0	768,191	437,686
35	290	283.7	134° 10'	-	8.1	102°	-60.3	-68.4		5610.5		-265	+102	767,926	437,788
TP	454	448.9	134° 56' 18"	-	8.6	98° 34'	-67.6	-76.2			TP	-421	+155	767,770	437,841
TP	454				8.5	261° 26'	-67.6	-76.1		5602.8	TP				

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8-24-85		B. Cotnam		B. SALDIVAR		6834		B. SW		1		6				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
MONTANA		CANUCK Peak-7 1/2		MONTANA		LINCOLN								W. CASSIDY		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
										5602.8					30' 40'	
	744	734.8	306 46 36	+24.8	10.6	81° -	-116.4	-105.8	5497.0		BS	-646	+350			
	744			+10.5	279° -	-116.4	-105.9			BS						CROSS country
36	607	600.1	306 35	-	8.8	81° 20'	+91.5	+82.7		5579.7		+527	-287	767,651	437,904	↓
37	305		325 55	-	5.0	90° 20'	-1.8	-6.8		5490.2		+301	-49	767,425	438,142	BACK on road
38	317		339 40 36	-	5.8	90° 20'	-1.8	-7.6		5489.4	TP	+316	+25	767,440	438,216	Y-767,495 x-438,175 CREEK
38	74		2° 35'	-	5.7	-		-5.7		5491.3		+66	+34	767,190	438,225	
X	0				5.1	-		-5.1		5491.9	X	0	0	767,124	438,191	
TP	176		153 10 03	+24.8	8.9	-		-8.9		5488.1	TP	-176	+6	766,948	438,197	
TP	176				8.0	81°	-0.9	-8.9			TP					
	627	626.1	277 06 49	-	5.0	87° -	-32.8	-27.8	5460.3		BS	-331	+532			
	627			+4.9	273° -	-32.8	-27.9			BS						
39	555	554.2	276 -	-	6.0	86° 50'	+30.7	+24.7		5485.0		+284	-476	766,901	438,253	
40	225		275 -	-	6.3	85° 50'	+16.3	+10.0		5470.3		+112	-195	766,729	438,534	
X	0				5.1	-		-5.1		5455.2	X	0	0	766,617	438,729	
41	104		116 45	+24.8	6.0	92° 50'	-5.1	-11.1		5449.2		-81	+65	766,536	438,794	CANUCK Peak-7 1/2 ↑
42	432		109 45	-	9.0	92° 50'	-21.4	-30.4		5429.9		-303	+308	766,314	439,037	NORTHWEST Peak-7 1/2 ↓
TP	479	478.2	109 17 03	-	6.7	93° 20'	-27.9	-34.6			TP	-333	+343	766,284	439,072	
TP	479				6.4	266° 40'	-27.9	-34.5		5425.8	TP					
	255	253.1	289 18 51	-	12.7	83° -	-31.1	-18.4	5407.4		BS	-176	+182			
	255			+12.6	272° -	-31.1	-18.5			BS						

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8-24-85		B. Cotcamp		B. SALDIVAR		6834		B. SW		1		7						
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER				
MONTANA		Northwest Peak		Mont.		Lincoln								W. Cassidy				
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS
												LAT.	DEP.	Y	X			
									5407.4									
43	0				5.1	-		-5.1		5402.3	X	0	0	766,108	439,254			
44	330		92° 45'	+24.8	4.2	92° 46'	-15.4	-19.6		5387.8		-153	+293	765,955	439,547			
TP	600	599.4	93° 08' 54"	-	9.3	92° 40'	-27.9	-37.2		5370.2	TP	-281	+529	765,827	439,783			
TP	600				9.2	267° 20'	-27.9	-37.1			TP							
	763	762.0	281° 11' 11"	-	+10.0	87° -	-39.9	-29.9	5340.3		BS	-448	+617					
	763				+9.9	273° -	-39.9	-30.0			BS							
45	700		280° 40'	-	6.9	87° 20'	+32.6	+25.7		5366.0		+406	-570	765,785	439,830			
46	372		280° 50'	-	10.1	87° 20'	+17.3	+7.2		5347.5		+217	-302	765,596	440,098			
47	42		277° 20'	-	5.6	87° 20'	+2.0	-3.6		5336.7		+22	-36	765,401	440,364			
X	0				5.1	-		-5.1		5335.2	X	0	0	765,379	440,400			
48	290		120° 10'	+24.8	6.7	93° 26'	-16.9	-23.6		5316.7		-237	+166	765,142	440,566			
TP	519	518.1	118° 32' 10"	-	6.7	93° 20'	-30.2	-36.9		5303.4	TP	-416	+309	764,963	440,709			
TP	519				5.2	93° 30'	-31.7	-36.9			TP							
	260		301° 06' 58"	-	+6.6	86° -	-18.1	-11.5	5291.9		BS	-215	+145					
	260				+4.4	86° 30'	-15.9	-11.5			BS							
49	161		297° 25'	-	5.5	85° 50'	+11.7	+6.2		5298.1		+127	-99	764,875	440,755			
X	0				5.1	-		-5.1		5286.8	X	0	0	764,748	440,854			
50	167		113° 50'	-	5.6	92° 50'	-8.3	-13.9		5278.0		-125	+110	764,623	440,964			
TP	479		109° 45' 24"	-	4.2	92° 50'	-23.7	-27.9		5264.0	TP	-336	+341	764,412	441,195			
TP	479				4.1	267° 10'	-23.7	-27.8			TP							

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8-24-85		B. Cotcamp		B. SALDIVAR		6834		B. S. W.		1		8			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
MONTANA		Northwest Peak-7 1/2		Mont.		LINCOLN								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									5264.0						
	417	415.0	326° 14' 52"	+24.8	13.5	84° 20'	-41.2	-27.7	5236.3		BS	-410	+65		
	417				+13.4	275° 40'	-41.2	-27.8		BS					
51	393	391.1	325° 30'	-	12.0	84° 20'	+38.8	+26.8		5263.1		+386	-66	764,388	441,194
52	66		317° 15'	-	5.3	84° 20'	+6.5	+1.2		5237.5		+63	-20	764,065	441,240
π	0				5.1	—		-5.1		5236.2	π	0	0	764,002	441,260
53	263		118° 10'	+24.8	4.7	91° 40'	-7.6	-12.3		5224.0		-210	+158	763,792	441,418
TP	492		117° 31' 44"	-	10.2	91° 40'	-14.3	-24.5	5211.8		TP	-389	+301	763,613	441,561
TP	492				8.9	91° 50'	-15.7	-24.6		TP					
	431	430.0	314° 22' 54"	-	9.3	86° —	-30.1	-20.8	5191.0		BS	-402	+153		
	431				9.2	274° —	-30.1	-20.9		BS					
54	330		313° 45'	-	5.3	86° 40'	+19.8	+13.9		5204.9		+307	-121	763,518	441,593
55	0				5.1	—		-5.1		5185.9	π	0	0	763,211	441,714
56	330		144° —	-	10.1	92° 40'	-15.4	-25.5		5165.5		-324	+64	762,887	441,778
IF	410		143° 27' 10"	-	7.4	93° —	-21.5	-28.9	5162.1		IF	-401	+83	762,810	441,797
57	661	660.1	143° 44' 18"	-	3.8	93° —	-34.6	-38.4		TP			-647	+131	762,564
57	661				3.7	267° —	-34.6	-38.3			TP				

IF - 762,805 X - 441,795
 TP - Inter El. 4162.0

Across Sta.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
8-26-85		B. Cotcamp		B. SALDIVAR		6834		B. S. K.		1		9			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
MONTANA		Northwest Peak-76'		Montana		LINCOLN								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
										5152.6					
	699	698.0	340 01 08	+24.8	10.5	87°	-36.6	-26.1	5126.5		BS	-696	-59		
	699				10.4	273°	-36.6	-26.2			BS				
58	369		340 25	-	7.0	87° 30'	+16.1	+9.1		5135.6		+367	+34	762,235	441,820
59	41		332° 30'	-	4.6	87° 30'	+1.8	-2.8		5123.7		+41	-2	761,909	441,784
π	0				5.1	-		-5.1		5121.4	π	0	0	761,868	441,786
60	282		145 40	-	6.6	93° 40'	-18.0	-24.6		5101.9		-278	+47	761,590	441,833
61	611	609.5	145° 15'	-	6.4	94°	-42.6	-49.0		5077.5		-600	+105	761,268	441,891
TP	866	863.9	145° 09 48	-	5.5	94°	-60.4	-65.9	5060.7		TP	-851	+151	761,017	441,937
TP	866				5.4	266°	-60.4	-65.8			TP				
	363	362.1	307 07 22	+24.8	9.3	86°	-25.3	-16.0	5044.7		BS	-320	+170		
	363				9.2	274°	-25.3	-16.1			BS				
62	288		307 05	-	5.4	86° 40'	+16.7	+11.3		5056.0		+254	-136	760,951	441,971
π	0				5.1	-		-5.1		5039.6	π	0	0	760,697	442,107
63	41		158 20	-	6.2	93 10	-2.3	-8.5		5036.2		-41	-2	760,656	442,105
64	369	368.1	159 -	-	5.2	94°	-25.7	-31.0		5013.7		-367	-24	760,330	442,083
TP	482	481.3	156 34 26	-	13.8	93°	-25.2	-39.0	5005.7		TP	-481	-12	760,216	442,095
TP	482				13.7	267°	-25.2	-38.9			TP				
	159		324 49 53	-	2.1	87°	-8.3	-6.2	4999.5		BS	-156	+29		
	159				4.9	86°	-11.1	-6.2			BS				
π	0				5.1	-		-5.1		4994.4	π	0	0	760,060	442,124

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
8-26-85		B. Cotamp		B. SALDIAR		6834		B. SK		1		11			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
MONTANA		NORTH west Peak - 7 1/2		Mont.		LINCOLN								W. CASSIDY	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS K TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									4863.0						
	395	393.8	313 56 20	+24.8	7.6	85 30	-31.0	-23.4	4839.6		BS	-367	+143		
	395				7.5	274 30	-31.0	-23.5		BS					
72	171		309 20	-	6.3	85 30	+13.4	+7.1		4846.7		+154	-75	757.938	442.976
K	0				5.1	-		-5.1		4834.5	K	0	0	757.784	443.051
73	155		114 05	-	5.2	94 30	-12.2	-17.4		4822.2		-117	+102	757.667	443.153
74	485	483.5	110 10	-	5.3	94 30	-38.1	-43.4		4796.2		-342	+342	757.442	443.393
TP	666	664.2	110 42 12	-	3.6	94 10	-48.4	-52.0		4787.6	TP	-474	+466	757.310	443.517
TP	666				3.5	265 50	-48.4	-51.9			TP				
	809	807.9	306 54 16	+24.8	8.5	87 -	-42.3	-33.8			BS	-711	+383		
	809				8.4	273 -	-42.3	-33.9	4753.7		BS				
75	658		306 55	-	5.1	87 20	+30.6	+25.5		4779.2		+579	-312	757.178	443.588
76	330		306 50	-	6.5	87 -	+17.3	+10.8		4764.5		+290	-157	756.889	443.743
77	0				5.1	-		-5.1		4748.6	K	0	0	756.599	443.900
78	330		129 10	-	6.3	93 -	-17.3	-23.6		4730.1		-297	+145	756.302	444.045
79	860			-	4.0	93 -	-34.5	-38.5		4715.2		-593	+290	756.006	444.190
TP	736		127 46 40	-	14.5	92 -	-25.7	-40.2		4713.5	TP	-653	+339	755.946	444.239
TP	736				14.5	268 -	-25.7	-40.2			TP				
	221		303 54 35	-	4.6	88 -	-7.7	-3.1	4710.4		BS	-189	+115		
	221				4.5	272 -	-7.7	-3.2			BS				
K	0				5.1	-		-5.1		4705.3	K	0	0	755.757	444.354

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE							
8-26-85		B. Cotamp		B. SALDIVAR		6834		B. SA		1		13							
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER					
MONTANA		Northwest Peak-76		MONTANA		LINCOLN								W. Cassidy					
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS	
												LAT.	DEP.	Y	X				
									4561.6										
	411	410.4	301 11 06	+24.4	6.7	87°	-21.5	-14.8	4546.8		BS	-339	+232						
	411			+6.6	213	-21.5	-14.9			BS									
90	163		298 -	~	5.7	87°10	+8.1	+2.4		4549.2		+129	-99	752.817	445.887				
X	0				5.1	-		-5.1		4541.7	X	0	0	752.688	445.986				
91	166		119 30	~	4.8	92 40	-7.7	-12.5		4534.3		-134	+98	752.554	446.084				
92	494		116 -	~	10.3	92 40	-23.0	-33.3		4513.5		-381	+315	752.307	446.301				
93	823		- - -	~	4.3	93 -	-43.1	-47.4		4499.4		-634	+525	752.054	446.511				
TP	894	892.8	115 26 56	~	4.0	93 -	-46.8	-50.8		4496.0	TP	-682	+576	752.006	446.562				
TP	894				3.9	267 -	-46.8	-50.7			TP								
	388		292 43 08	+24.4	3.7	87 -	-20.3	-16.6	4479.4		BS	-284	+264						
	388			+3.7	213 -	-20.3	-16.6			BS									
94	128		293 40	~	5.1	86 40	+7.4	+2.3		4481.7		+95	-86	751.817	446.740				
X	0				5.1	-		-5.1		4474.3	X	0	0	751.722	446.826				
95	201		124 05	~	6.0	93 -	-10.5	-16.5		4462.9		-171	+105	751.551	446.931				
TP	474	473.4	121 20 34	~	5.0	93 :	-24.8	-29.8	4449.6		TP	-391	+266	751.331	447.092				
TP	474				4.9	267 -	-24.8	-29.7				TP							
	328		299 59 22	+24.4	5.0	87 -	-17.2	-12.2	4437.4		BS	-266	+191						
	328			+4.1	87 10	-16.2	-12.1			BS									
96	272		299 10	~	7.0	86 30	+16.6	+9.6		4447.0		+219	-162	751.284	447.121				
X	0				5.1	-		-5.1		4432.3	X	0	0	751.065	447.283				

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
8-26-85		B. Cotnam		B. SALDIVAR		6834		J. Sk		1		15			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
MONTANA		MOUNT BALDY-7 1/2		MONT.		LINCOLN								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS K TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									4309.3						
41	332		271 39 39	+24.1	4.2	87 40	+13.5	+9.3		4318.6	K	+144	-299	749.620	448.716
104	52		263 30	--	5.6	86 10	+3.5	-2.1		4307.2		+16	-50	749.492	448.965
K	0				5.1	-		-5.1		4304.2	K	0	0	749.476	449.015
105	279		96 50	--	6.8	93 40	-17.8	-24.6		4284.7		-143	+239	749.333	449.254
TP	339	338.3	97 12 39	--	7.6	93 40	-21.7	-29.3		4280.0	TP	-176	+289	749.300	449.304
TP	339				7.5	266 20	-21.7	-29.2			TP				
	266	265.2	305 58 16	+24.1	6.6	85 30	-20.9	-14.3	4265.7		BS	-230	+132		
	266				6.6	274 30	-20.9	-14.3			BS				
106	0				5.1	-		-5.1		4260.6	K	0	0	749.070	449.436
107	330		100 35	--	7.8	92 -	-11.5	-19.3		4246.4		-188	+271	748.882	449.707
108	660		101 -	--	4.6	93 -	-34.5	-39.1		4226.6		-380	+540	748.690	449.976
TP	750	749.1	101 39 40	--	7.7	92 50	-37.1	-44.8		4220.9	TP	-438	+608	748.632	450.044
TP	750				7.6	267 10	-37.1	-44.7			TP				
	321		290 23 57	+24.1	5.2	87 -	-16.8	-11.6			BS	-225	+229		
	321				+5.1	273 -	-16.8	-11.7	4209.2		BS				
109	83		282 -	--	4.7	87 -	+4.3	-0.4		4208.8		+49	-67	748.456	450.206
K	0				5.1	-		-5.1		4204.1	K	0	0	748.407	450.273
110	247		101 35	--	6.3	92 30	-10.8	-17.1		4192.1		-144	+201	748.263	450.474
TP	491		102 45 08	--	4.9	91 30	-12.9	-17.8		4191.4	TP	-294	+393	748.113	450.666
TP	491				4.8	268 30	-12.9	-17.7			TP				

NORTHWEST Peak-7 1/2

Mount BALDY-7 1/2

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
8-26-85		B. Cotcamp		B. SALDIVAR		6834		W		1		16			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
MONTANA		Mount Baldy-7 1/2		mont.		LINCOLN								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
										4191.4					
	499		295 06 28	+24.1	3.3	-		+3.3	4191.7		BS	-378	+326		
	499				5.8	TH	-2.5	+3.3		BS					
111	414		294 35	-	8.0	89 20	+4.8	-3.2		4191.5		+311	-273	748.046	450.719
112	85		293 30	-	6.0	90 20	-0.5	-6.5		4188.2		+63	-57	747.798	450.935
	π	0			5.1	-		-5.1		4189.6	TP	0	0	747.735	450.992
113	243		95 28	+24.1	3.9	89	+4.2	+0.3	4195.0		TP	-120	+211	747.615	451.203
113	243				3.8	211	+4.2	+0.4		TP					
	286		281 17 40	~	3.7	-		+3.7	4198.7		BS	-166	+233		
	286				5.1	TH	-1.4	+3.7		BS					
	π	0			5.1	-		-5.1		4193.6	TP	0	0	747.449	451.436
114	42		84 -	~	5.9	-		-5.9		4192.8		-13	+40	747.436	451.476
115	371		82 04 -	~	4.2	-		-4.2	4194.5		TP	-103	+356	747.346	451.792
115	371				6.1	TH	+1.9	-4.2		TP					
	486		245 19 29	+24.1	9.2	-		+9.2	4203.7		BS	+5	+486		
	486				11.6	TH	-2.4	+9.2		BS					
116	155		246 40	~	7.0	-		-7.0		4196.7		+2	-155	747.353	452.123
	π	0			5.1	-		-5.1		4198.6	TP	0	0	747.351	452.278
117	176		78 10	~	5.3	-		-5.3		4198.4		-37	+172	747.314	452.450
118	516		77 22 58	~	11.1	-		-11.1		4192.6		-103	+506	747.248	452.784
118	506		77 50	~	11.1	-		-11.1		4192.6		-105	+495	747.246	452.773

EL. 4194.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
8-26-85		B. Cotcamp		B. Saldívar		6834		B. Sk		1		17			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
MONTANA		Mount Baldy-7 1/2'		Mont.		LINCOLN								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									4203.7						
119	836		78° 10'	+24.1	10.2	-		-10.2		4193.5		-178	+817	747.173	453.095
120	1168		78° 05' 16"	-	10.8	90° 30'	-10.2	-21.0		4182.7	TP	-247	+1142	747.104	453.420
120	1168				10.7	269° 30'	-10.2	-20.9			TP				
	857	855.8	267° 58' 57"	-	+0.8	87° -	-44.9	-44.1			BS	-322	+793		
	857				+0.7	273° -	-44.9	-44.2	4138.5		BS				
121	527		267° 10'	-	6.4	86° 40'	+30.6	+24.2		4162.7		+191	-491	746.973	453.722
122	197		268° -	-	6.3	86° 40'	+11.5	+5.1		4143.6		+74	-183	746.856	454.030
\bar{x}	0				5.1	-		-5.1		4133.4	\bar{x}	0	0	746.782	454.213
123	133		88° 20'	+24.1	6.4	92° 40'	-6.2	-12.6		4125.9		-51	+123	746.731	454.336
124	463		89° -	-	5.9	92° 40'	-21.5	-27.4		4111.1		-182	+426	746.600	454.639
TP	723		88° 40' 33"	-	7.4	92° -	-25.2	-32.6		4105.9	TP	-280	+666	746.502	454.879
TP	723				7.3	268° -	-25.2	-32.5			TP				
	351		247° 41' 25"	+24.5	2.9	-		+2.9			BS	-13	+351		
	351				+2.8	270° -		+2.8	4108.7		BS				
125	283		246° 40'	-	6.3	89° 10'	+4.1	-2.2		4106.5		+6	-283	746.495	454.947
\bar{x}	0				5.1	-		-5.1		4103.6	\bar{x}	0	0	746.489	455.230
126	47		75° 25'	-	5.2	90° 10'	-0.1	-5.3		4103.4		-8	+46	746.481	455.276
127	377		- - -	-	6.1	91° 10'	-7.7	-13.8		4094.9		-65	+371	746.424	455.601
TP	630		73° 26' 52"	-	3.4	91° 10'	-12.8	-16.2			TP	-87	+624	746.402	455.854
TP	630				5.4	91° -	-11.0	-16.4	-16.3	4092.4	TP				

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE							
8-26-85		B. Cotcamp		B. SARDIVAR		6834		B.S.W.		1		18							
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER					
MONTANA		Mount Baldy-2 1/2		MONT.		LINCOLN								W. Cassidy					
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS	
												LAT.	DEP.	Y	X				
									4092.4										
	209		245° 48' 36"	+24.5	1.9	-		+1.9	4094.3		BS	-1	+209						
	209			+3.0	TP	-1.0	+2.0			BS									
128	135		245° -	-	4.7	89° -	+2.4	-2.3		4092.0		-1	+135	746,400	456,198				
X	0				5.1	-		-5.1		4089.2	X	0	0	746,401	456,063				
129	194		84° 25'	-	5.5	91° 30'	-5.1	-10.6		4083.7		-63	+184	746,338	456,247				
130	522		79° 15'	-	5.5	92° 18'	-20.9	-26.4		4067.9		-124	+507	746,277	456,570				
TP	660		78° 35' 45"	-	8.2	92° 10'	-25.0	-33.2		4061.1	TP	-149	+642	746,252	456,705				
TP	660				8.1	267° 50'	-25.0	-33.1			TP								
	519		268° 09' 06"	+24.5	3.5	88° -	-18.1	-14.6	4046.5		BS	-200	+479						
	519			+2.0	88° 10'	-16.6	-14.6			BS									
131	328		266° 10'	-	9.0	87° 10'	+16.2	+7.2		4053.7		+116	-307	746,168	456,877				
132	0				5.1	-		-5.1		4041.4	X	0	0	746,052	457,184				
133	330		94° -	-	6.4	92° 10'	-12.5	-18.9		4027.6		-157	+290	745,895	457,474				
TP	453		91° 56' 02"	-	5.8	92° 10'	-17.1	-22.9		4023.6	TP	-202	+405	745,850	457,589				
TP	453				7.1	92° -	-15.8	-22.9			TP								
	331		258° 10' 46"	+24.5	3.9	87° -	-5.8	-1.9	4021.6		BS	-73	+323						
	331			+3.8	271° -	-5.8	-2.0			BS									
134	130		258° 05'	-	4.7	89° -	+2.3	-2.4		4019.2		+28	-127	745,805	457,785				
X	0				5.1	-		-5.1		4016.5	X	0	0	745,777	457,912				
#	69		88° 09' 20"	-	5.1	-		-5.1		4016.5	#	-27	+64	745,750	457,976	#	4-745,115 x-458,070 Creek		

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
8-26-85		B. Cotcamp		B. SALDIVAR		6834		B. S. V		1		19			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
MONTANA		Mount Baldy-7 1/2'		Mont.		LINCOLN								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									4021.6						
135	201		96° 25'	+24.5	5.7	91° 30'	-5.3	-11.0		4010.6		-103	+172	745.674	458.084
TP	439		92° 31' 56"	-	3.3	92° -	-15.3	-18.6		4003.0	TP	-199	+391	745.578	458.303
TP	439				3.2	268° -	-15.3	-18.5			TP				
	233		267° 01' 16"	-	+1.6	88° -	-8.1	-6.5			BS	-85	+217		
	233		"		+0.9	88° 10'	-7.5	-6.6	3996.4		BS				
136	143		272° -	-	6.0	87° -	+7.5	+1.5		3997.9		+64	-128	745.557	458.392
π	0				5.1	-		-5.1		3991.3	π	0	0	745.493	458.520
137	189		108° -	+24.5	5.0	92° 30'	-8.2	-13.2		3983.2		-128	+139	745.365	458.659
138	519		104° 35'	-	8.0	92° 30'	-22.0	-30.0		3965.8		-327	+403	745.166	458.923
139	848		103° 10'	-	10.0	92° 30'	-37.0	-47.0		3949.4		-518	+671	744.975	459.191
140	1178	1176.9	102° 46' 55"	-	7.3	92° 30'	-51.4	-58.7		3937.7	TP	-713	+936	744.780	459.456
140	1178				7.2	267° 30'	-51.4	-58.6			TP				
	384		284° 52' 57"	-	9.3	88° -	-13.4	-4.1	3933.6		BS	-244	+297		
	384				9.2	272° -	-13.4	-4.2			BS				
141	55		279° -	+24.5	5.3	88° 30'	+1.4	-3.9		3929.7		+30	-46	744.566	459.707
π	0				5.1	-		-5.1		3928.5	π	0	0	744.536	459.753
142	276		88° 50'	-	6.9	-		-6.9		3926.7		-109	+253	744.427	460.006
143	605		87° 30'	-	10.4	-		-10.4		3923.2		-227	+561	744.309	460.314
144	935		87° 40'	-	10.5	90° 30'	-8.2	-18.7		3914.9		-353	+866	744.183	460.619

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
8-26-85		B. Cotcamp		B. SALDIVAR		6834		B. S.W.		1		20			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
MONTANA		Mount Baldy-7 1/2		MONT.		LINCOLN								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									3933.6						
TP	951		87° 59' 09"	+24.5	8.9	90° 40'	-11.1	-20.0		3913.6	TP	-364	+879	744,172	460,632
TP	951				8.8	269° 20'	-11.1	-19.9			TP				
	975		270° 59' 05"	-	+4.1	88° 28'	-26.1	-22.0	3891.6		BS	-419	+880		
	975				+4.0	271° 32'	-26.1	-22.1			BS				
145	659		270° 20'	-	5.7	88° 30'	+17.3	+11.6		3903.2		+277	-598	744.030	460,914
146	330		270° 10'	-	5.1	88° 10'	+10.6	+5.5		3897.1		+138	-300	743.891	461,212
147	0				5.1	-	-	-5.1		3886.5	X	0	0	743,753	461,512
148	330		94° 30'	+24.5	6.4	90° 40'	-3.8	-10.2		3881.4		-160	+289	743,593	461,801
149	660		94° 45'	-	4.6	90° 40'	-7.7	-12.3		3879.3		-322	+576	743,431	462,088
TP	736		94° 45' 21"	-	4.3	90° 40'	-8.6	-12.9		3878.7	TP	-360	+642	743,393	462,154
TP	736				4.2	269° 20'	-8.6	-12.8			TP				
	363		288° 38' 24"	-	+4.4	88° -	-12.7	-8.3	3870.4		BS	-248	+265		
	363				+4.3	272° -	-12.7	-8.4			BS				
150	108		282° 05'	+24.5	5.6	87° -	+5.7	-0.1		3870.3		+64	-87	743,209	462,332
X	0				5.1	-	-	-5.1		3865.3	X	0	0	743,145	462,419
151	222		101° 45'	-	6.7	91° 10'	-4.5	-11.2		3859.2		-131	+179	743,014	462,598
152	552		-	-	6.4	91° 10'	-11.2	-17.6		3852.8		-326	+445	742,819	462,864
TP	823		100° 59' 38"	-	3.5	91° 10'	-16.8	-20.3		3850.1	TP	-478	+670	742,667	463,089
TP	823				6.0	91° -	-14.4	-20.4			TP				

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
8-26-85		B. Cotcamp		B. SALDIVAR		6834		B. S. W		1		21			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
MONTANA		Mount Baldy-7 1/2		mont.		Lincoln								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									3850.1						
	494		259 19 22	+24.5	6.3	88 20	-14.4	-8.1	3842.0		BS	-118	+479		
	494				+4.8	88 30	-12.9	-8.1			BS				
153	434		258 40	-	4.8	88 30	+11.4	+6.6		3848.6		+99	-425	742,648	463,143
154	108		260 -	-	6.2	88 30	+2.8	-3.4		3838.6		+27	-105	742,576	463,463
π	0				5.1	-		-5.1		3836.9	π	0	0	742,549	463,568
155	216		68 10	+24.5	5.5	-		-5.5		3836.5		-10	+216	742,539	463,784
TP	313		68 56 39	-	5.2	-		-5.2		3836.8	TP	-19	+312	742,530	463,880
TP	313				6.8	TM	+1.6	-5.2			TP				
	404		278 35 22	-	+2.7	89 -	-7.1	-4.4	3832.4		BS	-221	+338		
	464				+2.6	271 -	-7.1	-4.5			BS				
156	167		278 40	-	5.0	88	+5.8	+0.8		3833.2		+91	-140	742,400	464,078
H	70		285 07 22	-	3.6	89 -	+1.2	-2.4		3830.0	H	+45	-54	742,354	464,164
π	0				5.1	-		-5.1		3827.3	π	0	0	742,309	464,218
157	163		104 50	-	5.1	91 40	-4.7	-9.8		3822.6		-103	+126	742,206	464,344
158	486		103 29 48	-	4.9	91 30	-12.7	-17.6	3814.9		TP	-299	+383	742,010	464,601
158	486				4.8	268 30	-12.7	-17.5			TP				
	391		276 41 46	+24.5	2.0	88	-13.6	-11.6	3803.3		BS	-202	+334		
	391				+0.9	88 10	-12.5	-11.6			BS				
159	58		271 30	-	5.0	88 10	+1.9	-3.1		3800.2		+25	-52	741,833	464,883
π	0				5.1	-		-5.1		3798.2	π	0	0	741,808	464,935

5-742,410 x=464,100
Large creek el. 3831.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
8-26-85		B. CLEAMP		B. SALDIVAR		6834		B. S. V.		1		22			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
MONTANA		Mount Baldy-7 1/2'		MONTANA		LINCOLN								W. GISSIDY	
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
									3803.3						
160	272		105° 20'	+24.5	5.8	92° -	-9.5	-15.3		3788.0		-174	+269	741.634	465.144
TP	504		103° 58' 40"	--	6.5	92° -	-17.6	-24.1			TP	-313	+394	741.495	465.329
TP	504				6.4	268° -	-17.6	-24.0		3779.3	TP				
	424		278° 25' 41"	-	7.2	87° -	-22.2	-15.0		3764.3	BS	-230	+355		
	424			+	7.1	273° -	-22.2	-15.1			BS				
161	330		276° 55'	-	5.0	87° 20'	+15.4	+10.4		3774.7		+172	-282	741.437	465.402
162	0				5.1	-		-5.1		3759.2	X	0	0	741.265	465.684
163	330		115° 15'	+24.5	5.8	92° 20'	-13.4	-19.2		3745.1		-252	+213	741.013	465.897
TP	416		112° 48' 49"	--	6.4	92° 20'	-16.9	-23.3		3741.0	TP	-306	+282	740.959	465.966
TP	416				5.3	92° 30'	-18.1	-23.4			TP				
	665		283° 22' 14"	-	3.3	87° 40'	-27.1	-23.8		3717.2	BS	-408	+525		
	665			+	3.2	272° 20'	-27.1	-23.9			BS				
164	426		283° 30'	-	6.3	87° 20'	+19.8	+13.5		3730.7		+262	-336	740.813	466.155
165	96		285° 30'	-	5.0	87° 20'	+4.5	-0.5		3716.7		+62	-74	740.613	466.417
X	0				5.1	-		-5.1		3712.1	X	0	0	740.551	466.491
166	234		121° 35'	+24.5	5.2	93° 40'	-15.0	-20.2		3697.0		-194	+131	740.357	466.622
167	564		122° -	--	4.2	93° 10'	-31.2	-35.4		3681.8		-470	+311	740.081	466.802
TP	794	793.1	120° 52' 49"	-	6.6	92° 40'	-36.9	-43.5		3673.7	TP	-653	+451	739.898	466.942
TP	794				4.3	92° 50'	-39.2	-43.5			TP				

Mount Baldy-7 1/2' ↑
CLARK Mountain ↓

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE							
8-26-85		B. Cotnam		B. SALDIVAR		6834		B.S.W.		1		23							
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER					
MONTANA		CLARK Mountains - 7/2		MONT.		LINCOLN								W. Cassidy					
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS	
												LAT.	DEP.	Y	X				
										3673.7									
	886		289° 39' 57"	+24.5	1.6	TH	-4.4	-2.8	3670.9		BS	-617	+636						
	886				1.5	TH 270°	-4.4	-2.9			BS								
168	788		289° 30'	-	5.6	TH	+3.9	-1.7		3669.2		+547	-567	739,828	467,011				
169	459		288° 05'	-	9.9	-		-9.9		3661.0		+311	-338	739,592	467,240				
170	130		290° 40'	-	6.3	-		-6.3		3664.6		+92	-92	739,373	467,486				
TP	0				5.1	-		-5.1		3665.8	TP	0	0	739,281	467,578				
171	200		116° -	+24.5	6.7	-		-6.7		3664.2		-154	+127	739,127	467,705				
TP	329		111° 38' 33"	-	7.8	BM	-1.6	-9.4	3661.5		TP	-237	+228	739,044	467,806				
TP	329				9.5	-		-9.5			TP								
	529		288° 16' 27"	-	7.5	87°	-27.7	-20.2	3641.4		BS	-359	+388						
	529				6.0	87° 10'	-26.1	-20.1			BS								
172	330		288° 40'	-	5.4	87° 10'	+16.3	+10.9		3652.3		+226	-241	738,911	467,953				
173	0				5.1	-		-5.1		3636.3	TP	0	0	738,685	468,194				
174	330		115° 35'	-	4.9	91°	-5.8	-10.7		3630.7		-253	+212	738,432	468,406				
TP	523		115° 25' 28"	-	6.5	91°	-9.1	-15.6	3625.9		TP	-400	+337	738,285	468,531				
TP	523				6.4	269°	-9.1	-15.5			TP								
	277		303° 08' 07"	+24.5	3.2	TH	-1.4	+1.8	3627.7		BS	-234	+148						
	277				3.2	TH 270°	-1.4	+1.8			BS								
175	143		298° 30'	-	4.9	89°	+2.5	-2.4		3625.3		+114	-86	738,165	468,593				
TP	58		293° 47' 36"	-	4.4	89°	+1.0	-3.4		3624.3	TP	+43	-39	738,094	468,640				TP - 738,100 x - 468,650 Creek EL. 36250

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
8-26-85		B. Cotcamp		B. SALDIVAR		6834		B. S. W.		1		24			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
MONTANA		CLARK Mountain-76		MONT.		LINCOLN								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									3627.7						
π	0				5.1	-		-5.1		3622.6	π	0	0	738,051	468,679
176	185		113° 20'	+24.5	7.1	90° 20'	-1.1	-8.2		3619.5		-137	+124	737,914	468,803
TP	485		114° 16' 05"	~	3.6	90° 20'	-2.8	-6.4			TP	-365	+320	737,686	468,999
TP	485				3.5	269° 40'	-2.8	-6.3		3621.4	TP				
	741		329° 42' 33"	~	+14.5	88° 20'	-21.6	-7.1	3614.3		BS	-737	+75		
	741				+14.4	271° 40'	-21.6	-7.2			BS				
177	701		328° 55'	+24.5	12.3	88° 20'	+20.4	+8.1		3622.4		+696	-80	737,645	468,994
178	371		327° 20'	~	4.6	88° -	+12.9	+8.3		3622.6		+367	-53	737,316	469,021
179	44		313° -	~	4.8	88° -	+1.5	-3.3		3611.0		+41	-17	736,990	469,057
π	0				5.1	-		-5.1		3609.2	π	0	0	736,949	469,074
180	287		90° 25'	~	6.4	93° 10'	-15.9	-22.3		3592.0		-121	+260	736,828	469,334
181	616		81° 50'	-	6.0	93° 30'	-37.0	-43.0		3570.7		-234	+570	736,715	469,644
TP	699	697.8	87° 58' 05"	~	4.9	93° 20'	-40.6	-45.5			TP	-267	+645	736,682	469,719
TP	699				4.8	266° 40'	-40.6	-45.4		3568.9	TP				
	311		293° 29' 32"	+24.5	3.0	89° -	-5.4	-2.4	3566.5		BS	-231	+268		
	311				+3.0	271° -	-5.4	-2.4			BS				
182	62		295° 20'	~	5.0	89° 20'	+0.7	-4.3		3562.2	#	+47	-40	736,498	469,887
π	0				-5.1	-		-5.1		3561.4	π	0	0	736,451	469,927
183	269		125° 10'	~	5.2	92° 20'	11.0	-10.2		3550.3		-232	+136	736,219	470,063

creek Bl.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
8-26-85		B. Cotcamp		B. SALDIVAR		6834		B. S. W.		1		25				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
MONTANA		CLARK Mountain		MONT.		LINCOLN								W. Cassidy		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
H	374		123° 08' 52"	+24.5	7.8	92° 20'	-15.2	-23.0	3506.5	3543.5		-316	+200	736,135	470,127	
TP	448		124° 07' 40"	-	8.2	92° 40'	-20.8	-29.0			TP	-382	+233	736,069	470,160	
TP	448				8.1	267° 20'	-20.8	-28.9		3537.6	TP					
	350		334° 04' 48"	-	+1.7	87°	-18.3	-16.6	3521.0		BS	-349	+9			
	350				+1.6	273°	-18.3	-16.7			BS					
184	197		332° 05'	-	5.6	87°	+10.3	+4.7		3525.7		+197	-12	735,917	470,157	
X	0				5.1	-		-5.1		3515.9	X	0	0	735,720	470,169	
185	129		143° 10'	-	6.3	91° 40'	-3.8	-10.1		3510.9		-126	+28	735,594	470,197	
186	457		139° 10'	-	6.0	92° 40'	-21.3	-27.3		3493.7		-439	+129	735,281	470,298	
187	784	783.2	139° 54' 14"	-	13.6	92° 40'	-36.5	-50.1		3470.9	TP	-754	+211	734,966	470,380	ACROSS STA.
187	784				11.4	92° 50'	-38.8	-50.2			TP					
	243		307° 50' 18"	+24.5	4.9	87°	-12.7	-7.8	3463.1		BS	-215	+113			
	243				+4.8	273°	-12.7	-7.9			BS					
X	0				5.1	-		-5.1		3458.0	X	0	0	734,751	470,493	
188	84		146° 50'	-	6.0	92° 40'	-3.9	-9.9		3453.2		-83	+13	734,668	470,506	
189	413		151° 10' 33"	-	5.3	93° 10'	-22.8	-28.1			TP	-411	+31	734,340	470,524	
189	413				5.2	266° 50'	-22.8	-28.0		3435.1	TP					
	240		312° 50' 06"	-	+3.7	88°	-8.4	-4.7	3430.4		BS	-221	+92			
	240				+7.9	87°	-12.6	-4.7			BS					
X	0				5.1	-		-5.1		3425.3	X	0	0	734,119	470,616	
190	86		114° 20'	-	5.4	90° 50'	-1.3	-6.7		3423.7		-65	+57	734,054	470,673	

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE		
8-27-85		B. Camp		B. SALDIVAR		6834		B. S. W.		1		26		
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PARTY MANAGER		
MONTANA		CLARK MOUNTAIN-7 1/2'		MONT.		LINCOLN						W. CASS		
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.	
									3430.4					
191	416		109° 20'	+24.5	7.6	91° 20'	-9.7	-17.3		3413.1		-288	+300	733,831 470,916
TP	626		108° 42' 50"	-	13.4	91° 20'	-14.6	-28.0			TP	-429	+456	733,690 471,072
TP	626				13.3	268° 40'	-14.6	-27.9		3402.5	TP			
	590		272° 56' 24"	-	+10.0	88° -	-20.6	-10.6	3391.9		BS	-272	+523	
	590				+9.9	272° -	-20.6	-10.7			BS			
19	535		272° 48' 36"	+24.5	6.1	88° 30'	+14.0	+7.9		3399.8		+245	-475	733,663 471,120 y = 733,720 x = 471,075 y - Inter. El. 3401.0
192	471		272° 20'	-	6.8	88° 30'	+12.3	+5.5		3397.4		+213	-420	733,631 471,175
193	143		269° 25'	-	5.7	88° 30'	+3.7	-2.0		3389.9		+58	-131	733,476 471,464
K	0				5.1	-	-	-5.1		3386.8	K	0	0	733,418 471,595
194	179		79° 25' 1"	-	6.4	90° 30'	-11.6	-8.0		3383.9		-43	+174	733,375 471,769
TP	372		79° 54' 55"	+24.2	7.3	90° 30'	-3.2	-10.5		3381.4	TP	-91	+361	733,327 471,956
TP	372				7.2	269° 30'	-3.2	-10.4			TP			
	641		286° 49' 38"	-	+14.9	88° -	-22.4	-7.5			BS	-421	+483	
	641				+14.8	272° -	-22.4	-7.6	3373.8		BS			
195	504		286° 50'	-	7.4	88° 40'	+11.7	+4.3		3378.1		+331	-380	733,237 472,059
196	178		285° -	-	5.1	88° 40'	+4.1	-1.0		3372.8		+113	-138	733,019 472,301
K	0				5.1	-	-	-5.1		3368.7	K	0	0	732,906 472,439
197	152		127° 35'	+24.2	5.1	91° 40'	-4.4	-9.5		3364.3		-134	+72	732,772 472,511
198	485		126° 04' 46"	-	6.8	92° 40'	-22.6	-29.4		3344.4	TP	-421	+240	732,485 472,679
198	485				8.2	92° 30'	-21.2	-29.4			TP			ACROSS STA.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY				LINE NO.		PAGE	
8-27-85		B. Cotcamp		B. SALDIVAR		6834		B. S. V				1		27	
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
MONTANA		CLARK MOUNTAIN 7 1/2		MONT.		LINCOLN								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
										3344.4					
	276		349° 55' 09"	+24.2	0.1	87°	-14.4	-14.3	3330.0		BS	-267	-67		
	276				+0.0	273°	-14.4	-14.4		BS					
κ	0				5.1	-		-5.1		3324.9	κ	0	0	732,218	472,612
199	66		195° 10'	-	5.4	92° 40'	-3.1	-8.5		3321.5		-51	-42	732,167	472,570
TP	202		175° 49' 18"	--	7.9	92° 40'	-9.4	-17.3	3312.7		TP	-190	-69	732,028	472,543
TP	202				7.3	92° 50'	-10.0	-17.3		TP					
	410	409.0	314° 42' 21"	+24.2	2.6	86°	-28.6	-26.0	3286.6		BS	-382	+147		
	410				+2.5	274°	-28.6	-26.1		BS					
200	235		313° 25'	-	5.7	86°	+16.4	+10.7		3297.3		+217	-89	731,863	472,601
κ	0				5.1	-		-5.1		3281.5	κ	0	0	731,646	472,690
201	113		197° 25'	-	6.5	92°	-4.0	-10.4		3276.2		-84	-75	731,562	472,615
TP	412		194° 35' 04"	-	7.8	92° 30'	-18.0	-25.8	3260.8		TP	-321	-258	731,325	472,432
TP	412				9.0	92° 20'	-16.8	-25.8		TP					
	310		41° 41' 05"	+24.2	1.1	88°	-10.8	-9.7	3251.1		BS	-127	-283		
	310				+1.0	272°	-10.8	-9.8		BS					
202	280		42° 10'	-	4.8	87° 27'	+12.5	+9.9		3258.8		+112	+257	731,310	472,406
κ	0				5.1	-		-5.1		3246.0	κ	0	0	731,198	472,149
203	32		176° 40'	-	5.0	93° 30'	-10.0	-7.0		3244.1		-30	-11	731,168	472,138
TP	228		159° 49' 57"	-	6.1	93° 30'	-13.9	-20.0	3231.1		TP	-227	-16	730,971	472,133
TP	228				5.5	93° 40'	-14.6	-20.1		TP					

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE							
8-27-85		B. Cotcamp		B. SALDIVAR		6834		B. S.W.		1		28							
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER					
MONTANA		CLARK Mountain 7 1/2		MONTANA		Birdson								W. Cassidy					
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS	
												LAT.	DEP.	Y	X				
										3231.1									
	774		323 13 01	+24.2	10.8	85°	-67.5	-56.7			BS	-753	+168						
	774	771.1			+10.7	275°	-67.5	-56.8	3174.3		BS								
204	655	652.9	323 25	-	5.5	85 22	+53.0	+47.4		3221.7		+638	-140	730.856	472.161				
205	330	328.9	329 55	-	6.1	85 20	+26.8	+20.7		3195.0		+327	-34	730.545	472.267				
206	0				5.1	-		-5.1		3169.2	X	0	0	730.218	472.301				
207	327	326.1	151 45	+24.2	4.7	94 10	-23.8	-28.5			TP	-325	+23	729.893	472.324				
208	645	643.3	150 57 54	-	7.3	94 10	-46.9	-54.2	3120.1		TP	-641	+54	729.577	472.355				
208	645				9.1	94°	-45.0	-54.1			TP								
	372	370.9	339 58 40	-	7.7	85 30	-29.2	-21.5			BS	-370	-27						
	372				7.6	274 30	-29.2	-21.6	3098.5		BS								
209	47		324 50	-	5.8	85 40	+3.4	-2.2		3096.3		+46	-9	729.253	472.319				
X	0				5.1	-		-5.1		3093.4	X	0	0	729.207	472.328				
210	284	283.2	110 35	+24.2	5.3	94 20	-21.5	-26.8		3071.7		-199	+201	729.008	472.529				
TP	401	399.9	107 09 21	-	4.9	94 20	-30.3	-35.2		3063.3	TP	-264	+300	728.943	472.628				
TP	401				6.1	94 10	-29.1	-35.2			TP								
	259	258.4	273 53 28	-	3.2	86°	-18.1	-14.9			BS	-122	+228						
	259				3.1	274°	-18.1	-15.0	3048.3		BS								
211	56		276 30	-	4.8	87 42	+2.2	-2.4		3045.7		+29	-48	728.850	472.808				
X	0				5.1	-		-5.1		3043.2	X	0	0	728.821	472.856				
212	292	291.2	160 20	-	6.2	94 20	-22.1	-28.3		3020.0		-290	-23	728.531	472.833				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
8-27-85		B. Cotcamp		B. SALDIVAR		6834		B. S. W.		1		29				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
MONTANA		CLARK Mountain-74		mont.		LINCOLN								W. Cassidy		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
213	622	620.5	159 10	+24.2	4.8	93 57	-42.8	-47.6		3000.7		-619	-36	728.102	472.820	cross country
TP	702	700.4	159 08	-	4.1	93 50	-46.9	-51.0		2997.3	TP	-699	-41	728.122	472.815	
TP	702				4.0	266 10	-46.9	-50.9			TP					
	263	248.7	338 21 33	+24.2	7.6	71 -	-85.6	-78.0			BS	-248	-11			
	263			+ 7.5	289 -		-85.6	-78.1	2919.2		BS					
214	26		352 35	-	5.3	91 20	-0.6	-0.0		2913.2		+25	+8	727.899	472.812	
TP	0				5.1	-		-5.1		2914.1	TP	0	0	727.874	472.804	
IF	214		80 45 32	✓	4.8	91 46	-6.6	-11.4		2907.8		-55	+207	727.819	473.011	IF - 727.890 x .473.010 T-Inter.
215	291		108 -	-	4.8	91 48	-9.1	-14.0		2905.2		-195	+216	727.679	473.020	
216	604		120 38	-	4.8	91 24	-14.8	-19.6		2899.6		-494	+348	727.380	473.152	last sta. west of river
TP217	937		117 18 52	-	9.6	70 20	-5.5	-15.1		2904.1	TP	-733	+583	727.141	473.387	
TP217	937				9.5	269 40	-5.5	-15.0			TP					
	252		320 32 51	+24.2	3.2	-		+3.2	2907.3		BS	-243	+66			
	252			+ 4.5	TH		-1.3	+3.2			BS					
TP	0			-	5.1	-		-5.1		2902.2	TP	0	0	726.898	473.453	
218	80		163 -	-	4.4	-		-4.4		2202.9		-79	-10	726.819	473.443	
TP	393	392.3	164 55 40	-	4.5	86 40	+22.9	+18.4		2925.7	TP	-387	-62	726.511	473.391	
TP	393				4.4	273 20	+22.9	+18.5			TP					
	707		243 25 46	+24.5	11.4	TH	-3.5	+7.9			BS	+26	+707			
	707			+ 11.3	TH 20		-3.5	+7.8	2933.5		BS					

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
8-27-85		B. Cotcamp		B. SALDIVAR		6834		B. S. W.		1		30			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
MONTANA		CLARK Mountains - TE		MONTANA		LINCOLN								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									2933.5						
219	6.71		241° 25'	+24.5	4.8	90° 22'	-4.9	-9.1		2924.4		-48	-669	726,489	473,429
220	343		241° -	-	9.0	90° 20'	-2.0	-11.0		2922.5		-27	-342	726,516	473,756
221	14		234° 25'	-	6.0	-		-6.0		2927.5		-3	-14	726,534	474,084
X	0				5.1	-		-5.1		2928.4	X	0	0	726,537	474,098
222	308		114° 40'	+24.5	11.9	88° -	+10.7	-11.2		2932.3		-233	+201	726,304	474,299
TP	380		107° 01' 22"	-	5.0	89° -	+6.6	+1.6		2935.1	TP	-252	+284	726,285	474,382
TP	380				3.9	89° 10'	+5.5	+1.6			TP				
	487	486.3	269° 50' 57"	-	3.3	93° -	+25.5	+28.8	2963.9		BS	-201	+443		
	487				11.8	92° -	+17.0	+28.8			BS				
223	244		266° 55'	-	9.7	93° -	-12.8	-22.5		2941.4		+89	-227	726,173	474,598
X	0				5.1	-		-5.1		2958.8	X	0	0	726,084	474,825
224	86		93° 40'	+24.5	5.4	86° 30'	+5.3	-0.2		2963.7		-41	+76	726,043	474,901
225	408		72° 05'	-	8.2	86° 30'	+25.0	+16.7		2980.6		-47	+465	726,037	475,230
TP	539	538.3	72° 42' 41"	-	5.6	87° -	+28.2	+22.6		2986.5	TP	-68	+534	726,016	475,359
TP	539				5.6	273° -	+28.2	+22.6			TP				
	367		258° 22' 26"	-	6.8	92° 30'	+16.0	+22.8			BS	-82	+357		
	367				6.7	267° 30'	+16.0	+22.7	3009.2		BS				
226	173		249° 35'	-	7.0	92° 46'	-8.0	-15.0		2994.2		+12	-173	725,946	475,543
X	0				5.1	-		-5.1		3004.1	X	0	0	725,934	475,716
227	156		70° 50'	-	5.0	87° 40'	+6.4	+1.4		3010.6		-15	+155	725,919	475,871

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
8-27-85		B. Cotcamp		B. SALDIVAR		6834		B. S. K		1		31			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
MONTANA		CLARK Mountain 7 1/2		MONT.		LINCOLN								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									3009.2						
228	485		70° 12' 18"	+24.5	14.6	87° 20'	+22.6	+8.0	}	3017.2	TP	-40	+483	725.894	476.199
228	485				14.5	272° 40'	+22.6	+8.1		TP					
	290		266° 19' 02"	~	+6.2	-		+6.2	}		BS	-103.	+271		
	290				+6.1	270° -		+6.1		3023.3	BS				
K	0		0		5.1	-		-5.1		3018.2	K	0	0	725.791	476.470
229	39		106° 25'	~	5.0	87° 50'	+1.5	-3.5		3019.8		-22	+32	725.769	476.502
230	344		39° 10'	~	5.2	87° 30'	+15.0	+9.8		3033.1		+153	+308	725.944	476.778
TP	615	613.9	39° 31' 10"	-	3.9	86° 30'	+37.5	+33.6	}	3056.9	TP	+269	+552	726.060	477.022
TP	615				5.7	86° 20'	+39.3	+33.6		TP					
	245	244.4	230° 06' 33"	+24.5	7.2	94° -	+17.1	+24.3	}		BS	+65	+236		
	245				+7.1	266° -	+17.1	+24.2		3081.1	BS				
231	188		226° -	~	5.2	94° 10'	-13.7	-18.9		3062.2		-63	-177	726.062	477.081
K	0		0		5.1	-		-5.1		3076.0	K	0	0	726.125	477.258
232	141		56° 30'	~	6.2	86° -	+9.8	+3.6		3084.7		+22	+139	726.147	477.397
233 ^K	470	468.9	57° 30'	~	4.7	86° -	+32.8	+28.9		3109.2		+65	+464	726.191	477.722
234	799	797.1	56° 12' 28"	-	5.2	86° -	+55.7	+50.5	}	3131.6	TP	+129	+787	726.254	478.045
234	799				5.1	274° -	+55.7	+50.6		TP					
	534		227° 10' 51"	+24.5	14.4	92° -	+18.6	+33.0	}	3164.6	BS	+168	+507		
	534				+12.8	92° 10'	+20.2	+33.0		BS					
235	208		224° 50'	~	7.0	93° 10'	-11.5	-18.5		3146.1		-73	-195	726.349	478.357

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
8-27-85		B. Cotcamp		B. SALDIVAR		6834		B. S. W.		1		32			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
MONTANA		CLARK Mountain 7 1/2		MONTANA		LINCOLN								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									3164.6						
X	0				5.1	-		-5.1		3159.5	X	0	0	726,422	478,552
236	122		53° 35'	+24.5	6.2	86° 10'	+8.2	+2.0		3166.6		+25	+119	726,447	478,671
237	444		56° 30'	--	7.7	86° 20'	+26.4	+20.7		3185.3		+69	+439	726,491	478,991
TP	444	443.2	55° 39' 44"	--	5.2	86° 38'	+26.1	+20.9		3185.5	TP	+76	+437	726,498	478,989
TP	444				5.1	273° 22'	+26.1	+21.0			TP				
	157		241° 44' 48"	--	+11.5	-		+11.5			BS	+10	+157		
	157				+11.4	270° -		+11.4	3196.9		BS				
X	0				5.1	-		-5.1		3191.8	X	0	0	726,508	479,146
238	175		77° 05'	+24.5	5.2	89° 10'	+2.5	-2.7		3194.2		-35	+171	726,473	479,317
TP	256		69° 19' 24"	--	4.3	89° 10'	+3.7	-0.6		3196.3	TP	-17	+255	726,491	479,401
TP	256				4.2	270° 50'	+3.7	-0.5			TP				
	578		243° 25' 45"	--	+7.1	92° 00'	+20.2	+27.3	3223.6		BS	+21	+577		
	578				+5.4	92° 10'	+21.9	+27.3			BS				
239	336		242° 55'	--	6.1	92° -	-11.7	-17.8		3205.8		-15	-336	726,497	479,642
X	0				5.1	-		-5.1		3218.5	X	0	0	726,512	479,978
240	36		169° 05'	-	5.7	-		-5.7		3217.9		-35	-8	726,477	479,970
241	349		123° 30'	--	5.2	89° -	+6.1	+0.9		3224.5		-296	+185	726,216	480,163
TP	516		118° 58' 23"	-	13.0	89° -	+9.0	-4.0		3219.6	TP	-415	+307	726,097	480,285
TP	516				12.9	271° -	+9.0	-3.9			TP				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
8-27-85		B. Cotcamp		B. SALDIVAR		6834		B. S. W.		1		33			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
MONTANA		CLARK Mountain 7 1/2'		MONT.		LINCOLN								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									3219.6						
	186		175° 15' 45"	+24.5	8.5	-		+8.5	3228.1		BS	+175	+63		
	186				+7.6	BM	+0.9	+8.5		BS					
242	68		142° 35'	-	4.8	90° 14'	-0.3	-5.1		3223.0		-66	+15	726.206	480.363
	π	0			5.1	-		-5.1		3223.0	π	0	0	726.272	480.348
243	260		336° 20'	-	4.9	90° 10'	-0.8	-5.1		3222.4		+260	+4	726.532	480.352
TP	463		335° 32' 06"	-	5.6	-		-5.6		3222.5	TP	+463	±0	726.735	480.348
TP	463				5.5	270° -		-5.5			TP				
	413		175° 05' 40"	+24.5	4.5	-		+4.5	3227.0		BS	+389	+139		
	413				+4.6	270° -		+4.6		BS					
244	286		175° -	-	4.7	TM	+1.4	-3.3		3223.7		-270	-95	726.854	480.392
	π	0			5.1	-		-5.1		3221.9	π	0	0	727.124	480.487
245	40		4° 10'	-	4.5	-		-4.5		3222.5		+35	+19	727.159	480.506
246	365		326° 45'	-	5.4	-		-5.4		3221.6		+361	-56	727.485	480.431
TP	438		327° 39' 29"	-	6.5	TH	+2.2	-4.3		3222.7	TP	+434	-60	727.558	480.427
TP	438				6.4	TH 270° -	+2.2	-4.2			TP				
	321		199° 36' 34"	+24.5	9.3	-		+9.3	3232.0		BS	+230	+223		
	321				+10.9	TH	-1.6	+9.3		BS					
247	56		190° 20'	-	4.6	TH	+0.3	-4.3		3227.7		-46	-32	727.742	480.618
	π	0			5.1	-		-5.1		3226.9	π	0	0	727.788	480.656
248	288		63° 25'	-	7.7	-		-7.7		3224.3		+10	+288	727.798	480.938

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE							
8-21-85		B. Cotnam		B. SALDIVAR		6834		B. S. W.		1		34							
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER					
MONTANA		CLARK Manitulu-7 1/2		MONT.		LINCOLN								W. Cassidy					
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS	
												LAT.	DEP.	Y	X				
									3232.0										
TP	328		62° 09' 57"	+24.5	9.5	-		-9.5		3222.5	TP	+19	+327	727.807	480.977				
TP	328				9.4	270° -		-9.4			TP								
	461		217° 38' 48"	-	8.6	88° -	-16.1	-7.5		3215.0	BS	+215	+407						
	461				7.3	88° 10'	-14.7	-7.4			BS								
249	248		196° 30'	-	5.7	88° 30'	+6.5	+0.8		3215.8		-187	-163	727.835	481.221				
π	0				5.1	-		-5.1		3209.9	π	0	0	728.022	481.384				
250	99		72° 25'	+24.5	6.8	91° 30'	-2.6	-9.4		3205.6		-12	+98	728.010	481.482				
TP	351		68° 38' 32"	-	7.1	90° 30'	-3.1	-10.2		3204.8	TP	-19	+350	728.003	481.734				
TP	351				6.1	90° 40'	-4.1	-10.2			TP								
	197		265° 12' 10"	-	11.5	-		+11.5		3216.3	BS	-66	+185						
	197				10.5	BH	+1.0	+11.5			BS								
251	122		264° -	+24.5	6.5	91° 10'	-2.5	-9.0		3207.3		+39	-116	727.976	481.803				
π	0				5.1	-		-5.1		3211.2	π	0	0	727.937	481.919				
252	203		78° -	-	5.7	87° 40'	+8.3	+2.6		3218.9		-44	+198	727.893	482.117				
TP	380		77° 59' 13"	-	6.4	87° 40'	+15.5	+9.1		3225.4	TP	-82	+371	727.855	482.290				
TP	380				7.5	87° 30'	+16.6	+9.1			TP								
	350		271° 24' 08"	-	12.6	-		+12.6			BS	-153	+315						
	350				12.5	270° -		+12.5		3237.9	BS								
253	203		263° 40'	-	6.8	90° 20'	-1.2	-8.0		3229.9		+63	-193	727.765	482.412				
π	0				5.1	-		-5.1		3232.8	π	0	0	727.702	482.605				

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
8-27-85		B. Cotcamp		B. SALDIVAR		6834		B. S.W.		1		35			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
MONTANA		CLARK Mountain - 7 1/2'		MONT.		LINCOLN								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									3237.9						
254	115		52° 25'	+24.5	4.4	90° 20'	-0.7	-5.1		3232.8		+26	+112	727.728	482.717
TP	418		38° 47' 57"	--	8.2	89° 20'	+4.9	-3.3			TP	+188	+373	727.890	482.778
TP	418				7.0	89° 30'	+3.6	-3.4		3234.5	TP				
	845		228° 48' 02"	--	5.1	86° 30'	-22.1	-17.0			BS	+243	+809		
	845				5.0	271° 30'	-22.1	-17.1	3217.4		BS				
255	825		228° 50'	--	4.5	88° 30'	+21.6	+17.1		3234.5		-237	-790	727.896	482.997
256	498		225° 20'	--	7.0	88° 50'	+10.1	+3.1		3220.5		-172	-467	727.961	483.320
257	200		201° 10'	--	6.4	-	-	-6.4		3211.0		-190	-143	727.993	483.644
π	0				5.1	-	-	-5.1		3212.3	π	0	0	728.133	483.787
258	125		42° 20'	+24.5	8.5	-	-	-8.5		3208.9		+49	+115	728.182	483.902
259	453		38° 35'	--	8.9	-	-	-8.9		3208.5		+205	+404	728.338	484.191
TP	521		38° 31' 09"	--	5.5	90° 40'	-6.1	-11.6		3205.8	TP	+236	+464	728.369	484.251
TP	521				7.0	90° 30'	-4.5	-11.5			TP				
	252		230° 13' 57"	+24.5	7.4	-	-	+7.4			BS	+66	+243		
	252				7.3	270°	-	+7.3	3213.1		BS				
260	28		229° 10'	--	9.4	100° 20'	-5.0	-14.4		3198.7		-8	-27	728.427	484.467
π	0				5.1	-	-	-5.1		3208.0	π	0	0	728.435	484.494
261	311	309.9	8° 55'	--	6.2	94° 50'	-26.2	-32.4		3180.7		+259	+171	728.694	484.665
262	624	6	4° 30'	--	10.0	93° 40'	-40.0	-50.0		3163.1		+546	+303	728.981	484.797
TP	686	684.5	5° 44' 00"	--	14.4	93° 20'	-39.9	-54.3		3158.8	TP	+592	+345	729.027	484.839

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
8-27-85		B. Cotcamp		B. SALDIVAR		6834		B.S.W.		1		36			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
MONTANA		CLACK Mountain		MONT.		Lincoln								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
										3158.8					
	348		194° 05' 52"	+24.5	4.6	-		+4.6	3163.4		BS	+272	+217		
	348			+2.9	BH	+1.7	+4.6			BS					
263	107		209° 30'	-	6.3	95° 20'	-9.9	-16.2		3147.2		-63	-87	729,236	484,969
	0				5.1	-		-5.1		3158.3	X	0	0	729,299	485,056
264	210		20° 30'	-	6.1	93° 20'	-12.2	-18.3		3,145.1		+148	+148	729,447	485,204
TP	501		34° 12' 34"	-	8.6	87° 20'	+5.8	-2.8		3160.6	TP	+260	+428	729,559	485,484
TP	501				8.5	270° 40'	+5.8	-2.7			TP				
	744		236° 24' 35"	+24.5	10.2	92° -	+26.0	+36.2			BS	+117	+734		
	744			+10.1	268	-	+26.0	+36.1	3196.7		BS				
265	712		235° 25'	-	7.5	92° 10'	-27.0	-34.4		3162.3		-125	-701	729,551	485,517
266	382		236° 40'	-	6.7	92° 10'	-14.4	-21.1		3175.6		-59	-377	729,617	485,841
267	55		225° 35'	-	6.2	92° 10'	-2.1	-8.3		3188.4		-19	-52	729,657	486,166
	0				5.1	-		-5.1		3191.6	X	0	0	729,676	486,218
268	284		83° 15'	+24.5	5.7	87° 30'	+12.4	+6.7		3203.4		-87	+270	729,589	486,488
269	614		83° -	-	6.0	88° 20'	+17.9	+11.9		3208.6		-185	+586	729,491	486,804
TP	743		81° 55' 30"	-	13.4	88° 10'	+23.8	+10.4		3207.1	TP	-210	+712	729,466	486,930
TP	743				13.3	271° 50'	+23.8	+10.5			TP				
											BS				
											BS				

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE							
8-29-85		B. Cotcamp		R. Jones		6834		B. S. W.		1		37							
AREA		TOPO MAP		STATE		COUNTRY		TWP		RANGE		PPM		PARTY MANAGER					
MONTANA		CLARK MOUNTAIN-7 1/2		MONT.		LINCOLN								W. Cassidy					
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS	
												LAT.	DEP.	Y	X				
									3207.1										
	567		260° 02' 10"	+24.2	6.9	-		+6.9	3214.0		BS	-139	+550						
	567				+4.1	BH	+2.8	+6.9			BS								
270	365		259° 50'	-	9.2	-		-9.2		3204.8		+89	-354	729,416	487,126				
271	36		266° 40'	-	5.2	-		-5.2		3208.8		+13	-34	729,340	487,446				
π	0				5.1	-		-5.1		3208.9	π	0	0	729,327	487,480				
272	294		100° 45'	+24.2	8.2	91° -	-5.1	-13.3		3200.7		-168	+241	729,159	487,721				
TP	583		92° 29' 22"	-	1.0	TH	+2.9	+1.9		3215.9	TP	-262	+521	729,065	488,001				
TP	583				0.9	TH 270° -	+2.9	+2.0			TP								
	512		262° 26' 55"	-	+3.8	89° 20'	-6.0	-2.2	3213.7		BS	-147	+491						
	512				+3.8	270° 40'	-6.0	-2.2			BS								
273	482		266° -	+24.2	6.0	-		-6.0		3207.7		+166	-452	729,084	488,040				
274	155		259° 40'	-	9.1	-		-9.1		3204.6		+37	-150	728,955	488,342				
π	0				5.1	-		-5.1		3208.6	π	0	0	728,918	488,492				
275	175		83° 25'	-	6.0	-		-6.0		3267.7		-53	+167	728,865	488,659				
276	504		82° 20'	-	11.3	-		-11.3		3202.4		-143	+483	728,775	488,775				
TP	474		81° 11' 41"	-	7.5	90° 30'	-4.1	-11.6	3202.1		TP	-126	+457	728,792	488,949				
TP	474				7.4	269° 30'	-4.1	-11.5			TP								
	403		254° 02' 20"	-	+11.4	91° -	+7.0	+18.4	3220.4		BS	-58	+399						
	403				+11.3	269° -	+7.0	+18.3			BS								
277	52		234° 05'	-	5.3	89° -	+0.9	-4.4				-11	-51	728,723	489,297				

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
8-29-85		B. Cotcamp		R. Jones		6834		B. S. W.		1		38				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
MONTANA		CLARK Mountain 36		Mont.		LINCOLN								W. Cassidy		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
*	0				5.1	-		-5.1	3220.4	3215.3	π	0	0	728,734	489,348	
278	294		107° 50'	+24.2	5.3	88° 20'	+8.6	+3.3		3223.7		-197	+218	728,537	489,566	
TP	470		107° 52' 55"	-	4.0	88° 20'	+13.7	+9.7		3230.1	TP	-315	+349	728,419	489,697	
TP	470				3.9	271° 40'	+13.7	+9.8			TP					
	379		269° 08' 23"	-	14.6	-		+14.6	3244.7		BS	-150	+348			
	379				12.7	BM	+1.9	+14.6			BS					
279	238		261° 05'	+24.2	6.3	91° 30'	-6.2	-12.5		3232.2		+63	-230	728,332	489,815	
π	0				5.1	-		-5.1		3239.6	π	0	0	728,269	490,045	
280	91		104° 40'	-	5.7	88° 30'	+2.4	-3.3		3241.4		-57	+71	728,212	490,116	
TP	368		107° 44' 02"	-	5.2	89° 30'	+3.2	-2.0		3242.7	TP	-246	+274	728,023	490,319	
TP	368				5.1	270° 30'	+3.2	-1.9			TP					
	273		238° 37' 57"	+24.2	11.9	91° -	+4.8	+16.7			BS	+34	+271			
	273				11.8	269° -	+4.8	+16.6	3259.3		BS					
281	244		233° 15'	-	4.8	92° 26'	-10.4	-15.2		3244.1		-53	-238	728,004	490,352	
π	0				5.1	-		-5.1		3254.2	π	0	0	728,057	490,590	
282	90		87° 40'	-	4.9	88° -	+3.1	-1.8		3257.5		-34	+84	728,023	490,674	
283	419		85° 50'	-	7.0	88° -	+14.6	+7.6		3266.9		-144	+394	727,913	490,984	
TP	527		87° 02' 03"	-	6.6	88° -	+18.4	+11.8		3271.1	TP	-191	+491	727,866	491,081	
TP	527				5.1	88° 10'	+16.9	+11.8			TP					
	315		293° 02' 26"	+24.2	9.3	-		+9.3	3280.4		BS	-231	+214			
	315				7.8	BM	+1.6	+9.4			BS					

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
8-29-85		B. Cotcamp		R. Jones		6834		B. S. W.		1		39			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
MONTANA		CLARK Mountain 7 1/2		MONT.		LINCOLN								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									3286.4						
284	91		283° 10'	+24.2	4.9	-		-4.9		3275.5		+55	-72	727.690	491.223
π	0				5.1	-		-5.1		3275.3	π	0	0	727.635	491.295
285	231		97° 25'	~	5.2	89°	+4.0	-1.2		3279.2		-121	+197	727.514	491.492
TP	415		96° 37' 17"	~	4.6	88° 50'	+8.5	+3.9		3284.3	TP	-213	+356	727.422	491.651
TP	415				4.5	271° 10'	+8.5	+4.0			TP				
	456		325° 04' 21"	+24.2	9.8	91° 30'	+11.9	+21.7	3306.0		BS	-448	+85		
	456				+8.5	91° 40'	+13.3	+21.8			BS				
286	300		324° 20'	~	8.0	91° 20'	-7.0	-15.0		3291.0		+294	-60	727.268	491.676
π	0				5.1	-		-5.1		3300.9	π	0	0	726.974	491.736
287	40		190° 10'	~	5.2	86° 20'	+2.6	-2.6		3303.4		-33	-23	726.941	491.713
288	354		142° 50'	-	6.8	87° 20'	+16.5	+9.7		3315.7		-345	+79	726.629	491.815
289	684		142° 20'	-	7.2	87° 40'	+27.8	+20.6		3326.6		-665	+159	726.309	491.895
TP	793	792.3	142° 02' 15"	-	8.1	87° 40'	+32.3	+24.2		3330.2	TP	-770	+189	726.204	491.925
TP	793				5.8	87° 50'	+30.0	+24.2			TP				
	170		274° 43' 48"	+24.2	2.8	-		+2.8	3333.0		BS	-82	+149		
	170				3.7	74	-0.9	+2.8			BS				
π	0				5.1	-		-5.1		3327.9	π	0	0	726.122	492.074
290	53		84° 05'	-	5.9	90° 30'	-0.5	-6.4		3326.6		-17	+50	726.105	492.124
291	376		62° 20'	-	5.8	92° 30'	-16.4	-22.2		3310.8		+23	+375	726.145	492.449

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
8-29-85		B. Cotamp		R. Jones		6834		B. S.W.		1		40			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
MONTANA		CLARK Mountain-7 1/2		Mont.		LINCOLN								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									3333.0						
TP	489		62° 30' 24"	+24.2	4.5	92° 30'	-21.3	-25.8	}	3307.2	TP	+28	+488	726,150	492,562
TP	489				5.9	92° 20'	-19.9	-25.8		TP					
	310		283° 08' 57"	-	+3.7	88° -	-10.8	-7.1	}	3300.0	BS	-188	+246		
	310				+3.6	272° -	-10.8	-7.2			BS				
292	81		287° 10'	-	5.4	88° 10'	+2.6	-2.8		3297.2		+54	-61	726,016	492,747
π	0				5.1	-		-5.1		3294.9	π	0	0	725,962	492,808
293	249		118° 55'	-	7.8	91° 30'	-6.5	-14.3		3285.7		-199	+149	725,763	492,957
TP	369		115° 11' 40"	-	7.7	92° -	-12.9	-20.6	}	3279.4	TP	-280	+240	725,682	493,048
TP	369				7.6	268° -	-12.9	-20.5			TP				
	399		263° 36' -	+24.2	6.5	87° -	-20.9	-14.4	}	3264.9	BS	-122	+379		
	399				6.4	273° -	-20.9	-14.5			BS				
294	199		264° 20'	-	5.2	87° -	+10.4	+5.2		3270.1		+63	-189	725,623	493,238
π	0				5.1	-		-5.1		3259.8	π	0	0	725,400	493,427
295	137		113° 35'	-	5.2	91° 34'	-3.7	-8.9		3256		-101	+92	725,459	493,519
TP	280		115° 03' 17"	-	7.7	91° 40'	-8.1	-15.8	}	3249.1	TP	-212	+183	725,348	493,610
TP	280				7.6	268° 20'	-8.1	-15.7			TP				
	544		305° 15' 51"	+24.2	12.3	87° 36'	-22.8	-10.5	}	3238.5	BS	-468	+276		
	544				12.2	272° 24'	-22.8	-10.6			BS				
296	365		296° 10'	-	5.4	89° 10'	+5.3	-0.1		3238.4		+281	-233	725,161	493,653
297	45		298° 10'	-	5.6	87° 10'	+2.2	-3.4		3235.1		+36	-27	724,916	493,859

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		PAGE							
8-29-85		B. Cotcamp		R. Jones		6834		B. S. W.		41							
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER			
MONTANA		CLARK Mountain - 76		MONT.		LINCOLN								W. Cassidy			
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH - LAT.	EAST + WEST - DEP.	COORDINATES		REMARKS	
														Y	X		
									3238.5								
π	0				5.1	-		-5.1		3233.4	π	0	0	724.880	493.886		
298	287		136° 25'	+24.2	10.7	93° 10'	-15.9	-26.6		3211.9		-271	+95	724.609	493.981		
299	616		135° 10'	-	7.8	92° 30'	-26.9	-34.7		3263.8		-576	+217	724.304	494.103		
300	945		134° 35'	-	5.5	92° 20'	-38.5	-44.0		3194.5		-881	+342	723.999	494.228		
TP	949	448.2	133° 32' 57"	-	6.0	92° 20'	-38.6	-44.6			TP	-878	+359	724.002	494.245		
TP	949				5.7	267° 40'	-38.6	-44.3	44.53	3194.0	TP						
	676		304° 20' 33"	+24.2	6.7	88° 40'	-15.7	-9.0			BS	-576	+353				
	676				6.6	271° 20'	-15.7	-9.1	3184.9		BS						
301	356		303° 20'	-	9.7	89° -	+6.2	-3.5		3181.4		+300	-191	723.726	494.407		
302	30		285° -	-	5.3	89° -	+0.5	-4.8		3180.1		+19	-23	723.445	494.575		
π	0				5.1	-		-5.1		3179.8	π	0	0	723.426	494.598		
303	316		162° 45'	-	6.5	90° 30'	-2.7	-9.2		3175.7		-308	-38	723.118	494.560		
304	635		160° 31' 55"	-	10.4	91° -	-11.1	-21.5		3163.4	TP	-633	-52	722.793	494.546		
304	635				10.3	269° -	-11.1	-21.4			TP						
	318		259° 47' 42"	+24.2	3.9	88° 50'	-6.5	-2.6	3160.8		BS	-77	+309				
	318				3.9	271° 10'	-6.5	-2.6			BS						
π	204		217° 55' 02"	-	5.6	92° 40'	-9.5	-15.1		3145.7		-95	-180	722.621	494.675		cool creek
305	121		201° 25'	-	6.5	92° 40'	-5.6	-12.1		3148.7		-85	-86	722.631	494.769		
π	0				5.1	-		-5.1		3155.7	π	0	0	722.716	494.855		
306	206		14° 30'	-	5.4	88° 10'	+6.6	+1.2		3162.0		+161	+129	722.877	494.984		

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
8-29-85		B. Cotcamp		R. Jones		6834		B. S. W.		1		42			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
MONTANA		CLARK Mountain - 7 1/2'		MONT.		LINCOLN								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									3160.8						
TP	321		10° 20' 46"	+24.2	2.5	87° 10'	+15.9	+13.4	}		TP	+264	+182	722,980	495,037
TP	321				3.5	87° -	+16.8	+13.3			TP				
	460		169° 42' 05"	-	4.7	-		+4.7	}	3178.8	BS	+447	+111		
	460				7.0	TM	-2.3	+4.7			BS				
307	246		168° -	-	9.1	-		-9.1		3169.7		-240	-52	723,187	495,096
π	0				5.1	-		-5.1		3173.7	π	0	0	723,427	495,148
308	84		342° 55'	+24.2	5.4	86° 30'	+5.1	-0.3		3178.5		+83	+10	723,510	495,158
309	409	408.2	334° 25'	-	6.9	86° 30'	+25.0	+18.1		3196.9		+408	-10	723,835	495,138
TP	641	640.0	332° 08' 30"	-	6.8	86° 50'	+35.4	+28.6	}	3207.4	TP	+639	-41	724,066	495,107
TP	641				6.8	273° 10'	+35.4	+28.6				TP			
	407		151° 55' 33"	-	6.2	87° 30'	-17.8	-11.6	}	3195.7	BS	+406	-27		
	407				6.1	272° 30'	-17.8	-11.7				BS			
310	311		152° 30'	+24.2	5.9	87° 20'	+14.5	+8.6		3204.3		-310	+18	724,162	495,098
π	0				5.1	-		-5.1		3190.6	π	0	0	724,472	495,080
311	39		40° 35'	-	6.7	93° 20'	-2.3	-9.0		3186.7		+17	+35	724,489	495,115
312	353		348° 20'	-	4.9	93° 20'	-20.5	-25.4		3170.3		+345	+77	724,817	495,157
TP	742	741.5	348° 28' 30"	-	5.2	92° 30'	-32.4	-37.6	}	3158.1	TP	+723	+163	725,195	495,243
TP	742				5.1	267° 30'	-32.4	-37.5				TP			
	675		249° 42' 58"	-	14.8	-		+14.8	}	3172.9	BS	-46	+673		
	675				14.7	270° -		+14.7				BS			

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
8-29-85		B. Cotcamp		R. Jones		6834		B. S. W.		1		43				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
MONTANA				mont.		LINCOLN								W. Cassidy		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS		
												NORTH + SOUTH -	EAST + WEST -		Y	X
												LAT.	DEP.			
313	647		243 10'	+24.2	11.8	90° 20'	-3.8	-15.6		3157.3		-30	-646	725.119	495.270	
314	330		250 -	~	9.3	91° 20'	-7.7	-17.0		3155.9		+24	-329	725.174	495.587	CLARK Mountain ↑
315	0				5.1	-		-5.1		3167.8	π	0	0	725.149	495.916	YAAK - 7 1/2' ↓
316	330		72 08'	~	8.9	89 -	+5.8	-3.1		3169.8		-36	+328	725.113	496.244	
317	660			~	9.0	89 -	+11.5	+2.5		3175.4		-73	+656	725.076	496.572	
318	990		72 30'	~	7.7	88 30'	+26.0	+18.2		3191.1		-116	+983	725.033	496.899	
TP	1186		72 36 16'	-	8.8	88 30'	+31.0	+22.2		3195.1	TP	-140	+1177	725.009	497.093	
TP	1186				8.5	271 30'	+31.0	+22.5	+22.38	3195.2	TP					
	828		271 37 32'	+24.2	12.0	92 -	+28.9	+40.9	3236.1		BS	-360	+745			
	828				11.9	268 -	+28.9	+40.8			BS					
319	690		271 30'	~	9.0	92 10'	-26.1	-35.1		3201.0		+299	-622	724.948	497.216	
320	360		272 30'	~	7.9	92 10'	-13.6	-21.5		3214.6		+162	-322	724.811	497.516	
321	30		270 45'	-	5.7	92 10'	-1.1	-6.8		3229.3		+13	-27	724.662	497.811	
π	0				5.1	-		-5.1		3231.0	π	0	0	724.649	497.838	
322	306		106 -	+24.2	4.5	89 -	+5.2	+0.7		3236.8		-194	+229	724.455	498.067	
323	630		104 20'	~	9.7	89 -	+11.0	+1.3		3237.4		-392	+493	724.257	498.331	
324	960		103 50'	-	7.8	89 20'	+11.2	+3.4		3239.5		-591	+756	724.058	498.594	
TP	1170		104 04 12'	-	10.0	89 20'	+13.6	+3.6		3239.7	TP	-725	+919	723.924	498.757	
TP	1170				9.9	270 40'	+13.6	+3.7			TP					

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
8-29-85		B. Cotcamp		R. Jones		6834		B. S. W.		1		44				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
MONTANA		YAAK - 7 1/2'		MONTANA		LINCOLN								W. Cassidy		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH - LAT.	EAST + WEST - DEP.	COORDINATES		REMARKS
														Y	X	
										3239.7						
	1253		276° 48' 43"	+24.2	9.8	88° 30'	-32.8	-24.0	3215.7		BS	-645	+1674			
	1253			+	9.7	271° 30'	-32.8	-24.1			BS					
325	1133		276° 22'	-	5.7	88° 50'	+23.1	+17.4		3233.1		+576	-976	723,855	499,855	
326	884		275° 45'	-	5.5	88° 50'	+16.4	+10.9		3226.6		+401	-697	723,680	499,134	
327	474		276° 05'	-	6.8	88° 50'	+9.7	+2.9		3218.6		+239	-409	723,518	499,422	
328	144		-	-	6.5	88° 50'	+2.9	-3.6		3212.1		+73	-124	723,352	499,707	
π	0				5.1	-		-5.1		3210.6	π	0	0	723,279	499,831	
329	187		161° 05'	+24.2	5.7	92° 50'	-9.2	-14.9		3200.8		-108	+153	723,171	499,984	
330	515		99° 20'	-	8.0	92°	-18.0	-26.0		3189.7		-285	+429	722,994	500,260	
TP	578		95° 15' 25"	-	6.8	92°	-20.2	-27.0	3188.7		TP	-284	+503	722,995	500,334	
TP	578				6.7	268°	-20.2	-26.9			TP					
	730		235° 19' 23"	+24.2	9.7	91°	+12.7	+22.4	3211.1		BS	+133	+718			
	730			+	9.6	269°	+12.7	+22.3			BS					
331	481		233° 10'	-	10.6	91° 30'	-12.0	-22.0		3188.5		-105	-469	723,023	500,583	
332	151		235° 10'	-	6.3	91° 30'	-4.0	-10.3		3200.8		-28	-148	723,100	500,904	
π	0				5.1	-		-5.1		3206.0	π	0	0	723,128	501,052	
333	184		81°	-	5.7	88°	+6.4	+0.7		3211.8		-48	+178	723,080	501,230	
TP	348		82° 07' 21"	-	6.7	89°	+6.1	-0.6	3210.5		TP	-98	+334	723,030	501,386	
TP	348				5.7	89° 10'	+5.1	-0.6			TP					

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
8-29-85		B. Cotcamp		R. Jones		6834		B.S.W.		1		45			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
MONTANA		JAAK-7 1/2		Mont.		Lincoln								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
										3210.5					
	1161		290 41 30	+24.2	13.0	-		+13.0			BS	-819	+823		
	1161				+12.7	270 -		+12.7	42.93	3223.4	BS				
334	990		290 55	-	11.7	-		-11.7		3211.7		+701	-699	722,912	501,510
335	660		-	-	7.9	-		-7.9		3215.5		+468	-466	722,679	501,743
336	330		-	-	8.8	-		-8.8		3214.6		+234	-233	722,445	501,976
337	0				5.1	-		-5.1		3218.3	K	0	0	722,211	502,209
338	330		111 24	+24.2	6.8	90 30	-2.9	-9.7		3213.7		-236	+231	721,975	502,440
339	660		-	-	10.0	90 30	-5.8	-15.8		3207.6		-472	+462	721,739	502,671
340	990		-	-	12.5	90 30	-8.6	-21.1		3202.3		-707	+693	721,504	502,902
341	1320		-	-	11.6	90 30	-11.5	-23.1		3200.3		-943	+924	721,268	503,133
342	1650		-	-	5.8	90 20	-9.6	-15.4		3208.0		-1179	+1154	721,032	503,363
TP	1953		110 59 33	-	5.0	90 28	-15.9	-20.9		3202.5	TP	-1386	+1376	720,825	503,585
TP	1953				4.7	269 32	-15.9	-20.6	-20.83	3202.6	TP				
	470		263 20 50	+24.2	2.9	87 -	-24.6	-21.7	3180.9		BS	-142	+448		
	470				+1.5	87 10	-23.2	-21.7			BS				
343	443		263 20	-	4.7	87 10	+21.9	+17.2		3198.1		+133	-422	720,816	503,611
344	114		255 50	-	6.1	87 10	+5.6	-0.5		3180.4		+20	-113	720,703	503,920
K	0				5.1	-		-5.1		3175.8	K	0	0	720,683	504,033
345	216		62 -	-	6.7	91 10	-4.4	-11.1		3169.8		+14	+216	720,697	504,249
346	545		61 20	-	7.5	90 10	-1.6	-9.1		3171.8		+42	+543	720,725	504,576

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
8-29-85		B. Cotnam		R. Jones		6834		B. SW		1		46				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
MONTANA		Yak - 7 1/2		MONT.		LINCOLN								W. Cassidy		
STATION NO.	SLOPE DISTANCE	PLOTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
#	534		60° 32' 24"	+24.2	7.2	90° 10'	-1.6	-8.8	3180.9	3172.1	#	+49	+532	720,732	504,565	# -720,725 x -504,570 creek crossing
347	875		60° 40'	-	6.5	89° 20'	+10.2	+3.7		3184.6		+78	+871	720,761	504,904	
348	1205		60° 30'	-	7.1	89° 20'	+14.0	+6.9		3187.8		+111	+1200	720,794	505,233	
TP	1416		60° 16' 38"	-	1.6	89° 10'	+20.4	+19.0		3199.9	TP	+136	+1409	720,819	505,442	
TP	1416				1.5	270° 50'	+20.6	+19.1			TP					
	871		259° 34' 27"	+24.2	4.4	92°	+30.4	+34.8	3234.7		BS	-207	+845			
	871				+4.3	268°	+30.4	+34.7			BS					
349	746		259° 25'	-	7.9	92° 10'	-28.2	-36.1		3198.6		+176	-725	720,788	505,562	
350	416		259° 40'	-	8.7	92° 10'	-15.7	-24.4		3210.3		+100	-404	720,712	505,883	
351	91		248° -	-	5.2	92° -	-3.2	-8.4		3226.3		+3	-91	720,615	506,196	
π	0				5.1	-	-5.1			3229.6	π	0	0	720,612	506,287	
352	233		55° 20'	+24.2	6.1	90° 30'	-2.0	-8.1		3226.6		+42	+229	720,654	506,516	
353	563		55° 45'	-	5.7	90° 30'	-4.9	-10.6		3224.1		+98	+554	720,710	506,841	
TP	678		55° 22' 50"	-	7.0	90° 30'	-5.9	-12.9		3221.8	TP	+123	+667	720,735	506,954	
TP	678				6.9	269° 30'	-5.9	-12.8			TP					
	545		246° 07' 36"	-	4.6	-	+4.6		3226.4		BS	-3	+545			
	545				7.3	TH	-2.7	+4.6			BS					
354	331		247° 30'	-	9.8	-	-9.8			3216.6		+10	-331	720,742	507,168	
355	0				5.1	-	-5.1			3221.3	π	0	0	720,732	507,499	π cross sta.
356	328		75° 50'	-	6.3	87° 30'	+14.3	+8.0		3234.4		-57	+323	720,675	507,822	

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
8-29-85		B. Cotcamp		R. Jones		6834		B. S W		1		47			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
MONTANA		YAAK-7 1/2		MONT.		LINCOLN								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
TP	439		75° 56' 04"	+24.2	5.9	87° 30'	+19.1	+13.2		3239.6	TP	-77	+432	720,655	507,931
TP	439				4.7	87° 40'	+17.9	+13.2			TP				
	430		301° 22' 04"	-	8.6	91° 30'	+11.3	+19.9	3259.5		BS	-355	+243		
	430				8.5	268° 30'	+11.3	+19.8			BS				
357	192		296° 30'	-	4.7	91° 30'	-5.0	-9.7		3249.8		+149	-122	720,449	508,052
X	0				5.1	-		-5.1		3254.4	X	0	0	720,300	508,174
358	134		96° 30'	-	5.2	74	+0.7	-4.5		3255.0		-68	+115	720,232	508,289
359	456		82° 45'	-	5.5	88° 30'	+11.9	+6.4		3265.9		-133	+436	720,167	508,610
360	786		83° 30'	-	4.8	88° 46'	+16.9	+12.1		3271.6		-239	+749	720,061	508,923
TP	835		82° 43' 40"	-	2.2	88° 46'	+18.0	+15.8		3275.3	TP	-243	+799	720,057	508,973
TP	835				2.1	271° 14'	+18.0	+15.9			TP				
	534		287° 39' 27"	+24.2	2.2	92° 20'	+21.7	+23.9	3299.2		BS	-356	+397		
	534				2.2	267° 40'	+21.7	+23.9			BS				
361	244		287° 45'	-	6.6	92° 20'	-9.9	-16.5		3282.7		+163	-181	719,864	509,189
X	0				5.1	-		-5.1		3294.1	X	0	0	719,701	509,370
362	99		142° -	-	5.4	90° 20'	-0.6	-6.0		3293.2		-96	+24	719,605	509,394
363	425		132° 32'	-	8.9	90° 30'	-3.7	-12.0		3286.6		-390	+168	719,311	509,538
364	755		-	-	6.4	90° 20'	-4.4	-10.8		3288.4		-694	+298	719,007	509,668
365	1685 1085		-	-	6.3	90° 10'	-3.2	-9.5		3289.7		-997	+429	718,704	509,799
366	1415		-	-	6.2	89° 40'	+8.2	+2.0		3301.2		-1300	+559	718,401	509,929

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
8-29-85		B. Cotcamp		R. Jones		6834		B. S. W.		1		48			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
MONTANA		YAAK - 7 1/2'		MONT.		LINCOLN								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									3299.2						
TP	1639		131 54 34	+24.2	5.0	89° 30'	+14.3	+9.3			TP	-1499	+664	718,202	510,034
TP	1639				4.7	270 30'	+14.3	+9.6	+9.3	3308.6	TP				
	1042		296 25 50	-	4.8	91° -	+18.2	+23.0	3331.6		BS	-805	+661		
	1042				4.7	269° -	+18.2	+22.9			BS				
367	945		295 50	-	6.0	91° -	-16.5	-29.5		3309.1		+724	-607	718,121	510,088
368	615		- -	-	5.1	91° -	-10.7	-15.8		3315.8		+471	-395	717,868	510,300
369	285		- -	-	6.1	91° -	-5.0	-11.1		3320.5		+218	-183	717,615	510,512
X	0				5.1	-		-5.1		3326.5	X	0	0	717,397	510,695
370	5°		147 50	+24.2	5.5	87° -	+0.3	-5.2		3326.4		-50	+7	717,347	510,702
371	378		136 50	-	7.7	87° -	+19.8	+12.1		3343.7		-357	+123	717,040	510,818
372	708		137 -	-	6.6	87° -	+37.4	+30.5		3362.1		-670	+228	716,727	510,923
JP 373	1035	1033.6	136 01 58	-	8.9	87° -	+54.2	+45.3		3376.9	JP	-973	+350	716,424	511,045
TP 373	1035				8.8	273° -	+54.2	+45.4			TP				
	553	552.2	293 54 32	+24.2	6.1	93° -	+28.9	+35.0	3411.9		BS	-411	+369		
	553				6.0	267° -	+28.9	+34.9			BS				
374	223		295 40	-	6.0	93 10'	-12.3	-18.3		3393.6		+170	-144	716,183	511,270
X	0				5.1	-		-5.1		3406.8	X	0	0	716,013	511,414
375	111		142 35	-	4.7	87° 10'	+5.5	+0.8		3412.7		-108	+25	715,905	511,439
376	441		141 45	-	12.0	87° 10'	+21.8	+9.8		3421.7		-428	+107	715,585	511,521
377	771		141 30	-	11.1	88° 10'	+24.9	+13.0		3425.5		-747	+190	715,266	511,604

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
8-29-85		B. Cotcamp		R. Jones		6834				1		49			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
MONTANA		JARR-74'		MONT.		LINCOLN								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									3411.9						
378	1102		140° 33' 13"	+24.2	4.0	88° 10'	+35.3	+31.3			TP	-1063	+290	714,950	511,704
378	1102				3.7	271° 50'	+35.3	+31.6	+314.3	3443.3	TP				
	354		274° 58' 16"	-	+5.2	74	-1.8	+3.4	3446.7		BS	-173	+309		
	354				+5.2	74 270	-1.8	+3.4			BS				
379	27		259° 30'	-	5.0	88° -	+0.9	-4.1		3442.6		+6	-26	714,783	511,987
	0				5.1	-		-5.1		3441.6		0	0	714,777	512,013
380	300		55° 30' 21"	-	5.1	92° -	-10.5	-15.6		3431.1	TP	+54	+295	714,831	512,368
380	300				4.3	92° 10'	-11.3	-15.6			TP				
	797		205° 01' 32"	+24.2	7.8	88° 30'	-20.9	-13.1	3418.0		BS	+520	+603		
	797				+7.7	271° 30'	-20.9	-13.2			BS				
381	466		204° 50'	-	7.1	89° -	+8.1	+1.0		3419.0		-306	-352	715,045	512,559
382	136		-	-	6.3	89° -	+2.4	-3.9		3414.1		-89	-103	715,262	512,880
	0				5.1	-		-5.1		3412.9		0	0	715,351	512,911
Bm	154		107° 53' 30"	-	4.5	88° -	+5.4	+0.9		3418.9		-103	+114	715,248	513,025

E.O.L. Line #1
y-715,200 x-513,015
Bm u.s. G.S.E.L. 3418.0