

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc. *extra*

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
8-22-85		B. Colecamp		W. S. A. D. I. V. A. R.		6834		B.C.		2		68			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Edwards		LEONIA. 7c		IL.		Boundary								W. S. A. D. I. V. A. R.	
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
									2837.1			+67	+42		
444	79		12° 20'	+20.6	4.7	93° 30'	4.8	-7.7		2877.4		163	47	2530.20	416.578
445	462		13° 50'	-	5.7	93° 30'	-24.5	-30.2		2806.9		334	224	2530.20	416.578
TP	672		55° 48' 09"	-	6.8	74° 30'	-52.7	-52.5		2777.6	TP	1104	1619	2530.410	417.030
TP	672				6.7	265° 30'	-52.7	-51.1			TP				
	418		274° 47' 06"		4.2	87°	-11.9	-17.7	2757.9		BS	-794	+296		
	418				4.1	273°	-11.7	-17.8			BS				
K	0				5.1	-		-5.1		2794.8	K			2530.116	417.376
K	221		50° 49' 50"		11.4	-		-11.4		2748.5	K	-73	-201	2530.181	417.585
TP	418				4.2	67°	-21.9	+17.7		2777.6	TP				
TP	418				4.1	273°	-11.7	-17.8			TP				
	672				+6.8	94° 30'	+52.7	+52.5	2837.1		BS				
K	0				5.1	-		-5.1			K				
TP	765				5.0	86° 30'	+46.7	+41.7		2876.8	TP				
	667				+10.2	92° 30'	+17.2	+37.4	2716.2		BS				
K	0				5.1	-		-5.1			K				
441	339				7.5	92° 20'	-21.9	-29.4		2886.8	TP				
	188				+3.5	93° 30'	+11.5	+15.0	2711.8		BS				
K	0				5.1	-		-5.1			K				
TP	142				3.9	93° 30'	-6.7	-12.6		2881.2	TP				
	720				5.2	80° 30'	-118.8	-113.5	2757.7		BS				

USED wrong Declination to compute sideshot LATITUDE + DEPARTURE
From STA.

2530.20 x .417600
K - side.

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
6-20-15		D. (Gibson)		B. (Sundmark)		6024		B.C.W.		7		50			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
1046		CLIFTY mtn. 72		ID		Lawrence								W. (Gibson)	
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
									3851.5						
316	155		187 50	1136	5.3	75-	+135	+8.2		3859.7		-138	-71	2520.154	384.219
TP	0				5.1	-	-5.1			3846.4	TP	0	0	2520.292	384.290
TP	73		7 00 00	-	7.9	75	-4.9	-12.8		3838.7	TP	+83	+42	2520.375	384.332
TP	73				7.7	75	-5.1	-12.8			TP				
	64		170 01 45	-	1.8	75	-1.1	+0.2			B.	+56	-31		
	64				1.8	75	-1.1	+0.2	3838.8		B.				
317	0				5.1	-	-5.1			3833.7	TP	0	0	2520.113	384.301
TP	206	200.2	142 25 16	-	4.9	75	-11.1	-23.0		3815.8	TP	+128	-163	2520.559	384.138
TP	206				4.5	75	-13.1	-23.9			TP				
	105		170 21 29	-	3.2	-		+3.2	3811.0		B.	+103	+18		
	105				3.2	75	-0.5	+3.2			B.				
#	19		160 25 45	-	0.0	75	-7.1	-3.1		3815.9		-18	-6	2520.614	384.150
TP	0				5.1	-	-5.1			3813.9	TP	0	0	2520.662	384.156
318	32		14 46 00	-	6.0	75	-0.7	-6.7		3812.3		+26	+18	2520.688	384.174
TP	211		1 04 51	1000	6.8	76	+10.1	+5.3		3824.3	TP	+65	+55	2520.841	384.309
TP	241				6.7	75	+16.1	+5.4			TP				
	447		172 33 02	-	13.2	-		+13.2			B.	-30	-31		
	447				13.1	75		+13.1	3837.4		B.	-281	-172		TP's + B.S's not affected
TP	320		141 00 00	1000	4.7	91	-7.7	-12.6		3824.8		-113	-113	2520.942	384.378
320	0				5.1	-	-5.1			3832.3	TP	0	0	2521.023	384.350

NOTE # From STA. 319-445
 Wrong Declination WAS used to compute SIDESHOT LAT. + DEP.
 TP's + B.S's not affected

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
8-14-85		B. Cotcamp		B. SALDIVAR		6834		B.C.W.		2		32			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Idaho		Twenty Mile Creek 74'		Idaho		Bannock								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
										3003.3					
	127		252° 38' 28"	+20.5	+13.9	-		+13.9	3017.2		BS	-7	+127		
	127				+13.8	270		+13.8		BS	+				
214	60		244	-	5.6	93	-3.1	-8.7				-6	-60	2,524,063	361,572
TP	0				5.1	-		-5.1			TP	0	0	2,524,069	361,632
215	262		87° 35'	-	5.7	85	+22.8	+17.1				-81	+249	2,523,988	361,881
TP	283	281.9	84° 24' 36"		6.3	85	+24.7	+18.4	3035.5		TP	-73	+272	2,523,997	361,904
TP	283				5.5	85° 10'	+23.8	+18.3		TP	+				
	212	211.4	249° 14'	+20.5	4.5	94° 30'	+16.6	+21.1	3056.6		BS	+1	+211		
	212				+3.9	94° 40'	+17.2	+21.1		BS	+				
TP	0				5.1	-		-5.1			TP	0	0	2,523,999	362,115
216	128	127.3	90° 29' 39"	-	5.6	84° 10'	+13.0	+7.4	3063.9		TP	-46	+119	2,523,954	362,233
216	128				5.3	84° 20'	+12.6	+7.3		TP	+		-1		
	328	326.2	229° 24' 38"	-	+4.4	96	+34.3	+38.7	3102.6		BS	+112	+306		
	328				+7.3	95° 30'	+31.4	+38.7		BS	+		-1		
217	0				5.1	-		-5.1			TP	0	0	2,524,067	362,538
TP	157	156.1	69° 34' 05"	-	4.8	84	+16.4	+11.6	3114.2		TP	±0	+156	2,524,068	362,693
TP	157				4.4	84° 10'	+16.0	+11.6		TP	+		-1		
	303	302.2	225° 40' 52"	-	+5.3	94° 10'	+22.0	+27.3	3141.5		BS	+122	+276		
	303				+4.4	94° 20'	+22.9	+27.3		BS	+		-1		
218	138		221° 20'		6.4	92° 40'	-6.4	-12.8				-65	-122	2,524,126	362,846

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE					
8-14-85		B. Cotcamp		B. SAOVARA		6834		B.C.W		2		33					
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER			
Idaho		Twenty mile Creek-Tri Id.		Id.		Boundary								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		
									3141.5								
X	0				5.1	-		-5.1			X	0	0	2524.191	362.968		
219	192		103° 45'	+20.5	6.8	85°	+16.7	+9.9				-108	+159	2524.083	363.127		
220	520	518.0	103° 03' 48"	-	5.2	85°	+45.3	+40.1		3181.6	TP	-286	+432	2523.906	363.399		
220	520				3.7	85° 10'	+43.8	+40.1			TP	"	-1				
	822	817.7	295° 10' 50"	-	+3.3	95° 50'	+83.5	+86.8	3268.4		BS	-585	+571				
	822				+5.7	95° 40'	+81.2	+86.9			BS	"	-1				
221	494		294° 50'	+20.5	6.8	95° 20'	-45.9	-52.7			#	+351	-347	2523.673	363.622	Section line	
222	164		-	-	5.4	95° 20'	-15.2	-20.6				+117	-115	2523.439	363.854		
X	0				5.1	-		-5.1			X	0	0	2523.322	363.967		
223	165		108° -	-	6.7	84° 20'	+16.3	+9.6				-103	+129	2523.219	364.098		
224	480		105° 20'	-	5.7	84° 26'	+46.6	+40.9				-281	+389	2523.041	364.358		
TP	503	500.2	104° 20' 03"	-	9.0	84° -	+52.6	+43.6		3312.0	TP	-286	+411	2523.037	364.379		
TP	503				8.9	276° -	+52.6	+43.7			TP	"	-1				
	115		279° 12' 03"	+20.52	5.6	95° -	+10.0	+15.6	3327.6		BS	-57	+100				
	115				+5.3	95° 10'	+10.4	+15.7			BS	"	-1				
X	0				5.1	-		-5.1			X	0	0	2522.981	364.478		
225	183	182.1	124° 26' 12"	-	5.5	84° 20'	+18.1	+12.6		3340.2	TP	-149	+105	2522.833	364.582		
225	183				6.0	84° 10'	+18.6	+12.6			TP	"	-1				
	389	388.1	279° 30' 28"	-	+11.3	94° -	+27.1	+38.4	3378.6		BS	-194	+336				
	389				+10.2	94° 10'	+28.1	+38.5			BS	"	-1				

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
8-20-85		B. Cotcamp		B. SALDIVAR		6834		B.C.L.		2		50			
AREA		TOPO.MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Idaho		CLIFTY mt. - 7 1/2		Id.		Boundary								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
									3851.5						
316	155		187° 50'	+19.6	5.3	85° -	+13.5	+8.2		3859.7		-138	-71	2520.154	384.219
X	0				5.1	-		-5.1		3846.4	X	0	0	2520.292	384.290
TP	93		7° 00' 00"	-	7.9	93° -	-4.9	-12.8		3838.7	TP	+83	+42	2520.375	384.332
TP	93				7.7	93° 10'	-5.1	-12.8			TP				
	64		131° 01' 45"	-	+1.3	89° -	-1.1	+0.2			BS	+56	-31		
	64				+1.2	271° -	-1.1	+0.1	3838.8		BS				
317	0			-	5.1	-		-5.1		3833.7	X	0	0	2520.431	384.301
TP	208	201.2	288° 25' 48"	-	4.9	75° -	-18.1	-23.0		3815.8	TP	+128	-163	2520.559	384.138
TP	208				4.8	265° -	-18.1	-22.9			TP				
	105		170° 22' 39"	-	+3.2	-		+3.2	3819.0		BS	+103	+18		
	105				+3.7	TM	-0.5	+3.2			BS				
#	19		180° 25' 45"		0.0	99° 30'	-3.1	-3.1		3815.9		-18	-6	2520.644	384.150
X	0				5.1	-		-5.1		3813.9	X	0	0	2520.662	384.156
318	32		14° 40'	-	6.0	91° 10'	-0.7	-6.7		3812.3		+26	+18	2520.688	384.174
TP	241		19° 34' 51"	+20.0	10.8	86° 10'	+16.1	+5.3		3824.3	TP	+185	+153	2520.847	384.309
TP	241				10.7	273° 50'	+16.1	+5.4			TP				
	447		192° 37' 22"	-	+13.2	-		+13.2			BS	+376	+241		
	447				+13.1	270° -		+13.1	3837.4		BS				
319	330		191° 30'	+20.0	4.9	91° 20'	-7.7	-12.6		3824.8		-281	-172	2520.942	384.378
320	0				5.1	-		-5.1		3832.3	X	0	0	2521.223	384.550

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE							
8-20-85		B. Cotcamp		B. SALDIVAR		6834		B.C. W		2		51							
AREA		TOPO. MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER					
Idaho		CLIFTY Mtn. - 7 1/2'		Id.		Boundary								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				
									3837.4										
TP	215		31 33 52	+20.0	7.6	86° -	+15.0	+7.4		3844.8	TP	+124	+175	2521,347	384,725				
TP	215				7.5	274° -	+15.0	+7.5			TP								
	337		170 50 03		3.8	74°	-1.7	+2.1			BS	+331	+63						
	337				+3.7	74° 27'	-1.7	+2.0	3846.8		BS								
321	227		166 35		5.0	89° 40'	+1.3	-3.7		3843.1		-223	-43	2,521,455	384,745				
X	0				5.1	-		-5.1		3841.7	X	0	0	2,521,678	384,788				
322	106		26 45		6.6	90 40'	-1.2	-7.8		3839.0		+67	+82	2,521,745	384,870				
323	436		26 35		5.2	90 10'	-1.3	-6.5		3840.3		+275	+338	2,521,953	385,126				
TP	715		24 25 08		13.8	89° 40'	+4.2	-9.5			TP	+511	+560	2,522,189	385,288				
TP	715				13.8	270 20'	+4.2	-9.6		3837.2	TP								
	327		229 55 22	+20.0	12.6	91° -	+5.7	+18.3	3855.5		BS	+112	+307						
	327				+6.9	92° -	+11.4	+18.3			BS								
324	281		228 45		4.8	92 30'	-12.3	-17.1		3838.4		-82	-269	2,522,219	385,326				
X	0				5.1	-		-5.1		3850.4	X	0	0	2,522,301	385,595				
325	49		53 35		4.5	89 30'	+0.4	-4.1		3851.4		+10	+48	2,522,311	385,643				
TP	302		53 24 47		4.9	90 30'	-2.6	-7.5			TP	+86	+289	2,522,387	385,884				
TP	302				5.8	90 20'	-1.8	-7.6		3847.9	TP								
	294		217 08 28		+5.7	89° -	-5.1	+0.6	3848.5		BS	+159	+247						
	294				+4.9	89 10'	-4.3	+0.6			BS								
326	212		216 40		4.8	89° -	+3.7	-1.1		3847.4		-103	-185	2,522,443	385,946				

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		FINE NO.		PAGE			
8-20-85		B. Cotcamp		B. SALDIVAR		6834		B.C.V.		2		52			
AREA		TOPQ. MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Idaho		CLIFTY Mtn. - 7 1/2		Idaho		Boundary								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
									3848.5						
X	0				5.1	-		-5.1		3843.4	X	0	0	2522.546	386.131
327	118		27° -	+20.0	6.2	92° -	-4.1	-10.3		3838.2		+74	+92	2522.620	386.223
TP	355		24° 35' 21"	--	9.3	92° -	-12.4	-21.7		3826.8	TP	+253	+249	2522.799	386.380
TP	355				9.2	268° -	-12.4	-21.6			TP				
	338		192° 42' 19"	--	+9.4	87° -	-17.7	-8.3	3818.5		BS	+284	+182		
	338				+8.4	87° 10'	-16.7	-8.3			BS				
328	248		192° 35'	--	5.9	87° 46'	+10.1	+4.2		3822.7		-198	-149	2522.885	386.413
X	0				5.1	-		-5.1		3813.4	X	0	0	2523.083	386.562
329	80		0° 10'	--	6.6	89° 46'	+0.5	-6.1		3812.4		+73	+33	2523.156	386.595
TP	320		358° 49' 33"	--	10.3	88° 20'	+9.3	-1.0		3817.5	TP	+303	+103	2523.386	386.665
TP	320				9.4	88° 30'	+8.4	-1.0			TP				
	424		206° 17' 28"	+20.0	+7.2	89° -	-7.4	-0.2	3817.3		BS	+293	+306		
	424				+6.0	89° 10'	-6.2	-0.2			BS				
330	330		205° 35'	--	4.0	89° -	+5.8	+1.8		3819.1		-213	-252	2523.466	386.719
331	0				5.1	-		-5.1		3812.2	X	0	0	2523.679	386.971
TP	185		32° 43' 51"	--	4.0	89° -	+3.2	-0.8		3816.5	TP	+112	+147	2523.791	387.118
TP	185				3.5	89° 10'	+2.7	-0.8			TP				
	226		256° 23' 35"	--	+6.6	89° -	-3.9	+2.7			BS	-25	+225		
	226				+5.9	89° 10'	-3.3	+2.6	3819.1		BS				
332	78		252° 20'	--	4.6	89° 10'	+1.1	-3.5		3815.6		+9	-77	2523.775	387.266

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
8-20-85		B. G. CAMP		B. SALDIVAR		6834		B.C. K		2		53			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Idaho		CLIFTY Mtn. - 7 1/2'		Id.		Boundary								W. Cassidy	
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									389.1						
π	0				5.1	-		-5.1		3814.0	π	0	0	2523.766	387.343
333	247		54° 12' 03"	+20.0	5.0	90° 40'	-2.9	-7.9		3811.2	TP	+67	+238	2523.833	387.581
333	247				4.9	269° 20'	-2.9	-7.8			TP				
	184		206° 06' 28"	-	2.2	89° -	-3.2	-1.0			BS	+128	+133		
	184				+2.1	271° -	-3.2	-1.1	3810.1		BS				
π	0				5.1	-		-5.1		3805.0	π	0	0	2523.961	387.714
334	142		0° 30' -	-	5.6	91° -	-2.5	-8.1		3802.0		+129	+60	2524.090	387.774
TP	264		357° 58' 36"	-	9.0	74°	+1.3	-7.7		3802.4	TP	+251	+81	2524.212	387.795
TP	264				8.9	74° 20'	+1.3	-7.6			TP				
	238		199° 38' 16"	+20.0	11.4	-		+11.4			BS	+183	+152		
	238				+11.3	270° -		+11.3	3813.7		BS				
335	33		191° 16'	-	5.4	90° 20'	-0.2	-5.6		3808.1		-27	-19	2524.368	387.928
π	0				5.1	-		-5.1		3808.6	π	0	0	2524.395	387.947
336	299		33° 40'	-	5.0	90° 20'	-1.7	-6.7		3807.0		+159	+253	2524.554	388.200
TP	412		32° 59' 42"	-	6.2	90° 40'	-4.8	-11.0		3802.7	TP	+248	+329	2524.643	388.276
TP	412				6.1	269° 20'	-4.8	-10.9			TP				
	249	248.1	220° 29' 10"	+20.0	7.4	86° -	-17.4	-10.0	3792.7		BS	+122	+216		
	249				+3.0	87° -	-13.0	-10.0			BS				
337	33		214° 40'	-	5.7	87° -	+1.7	-4.0		3788.7		-17	-28	2524.748	388.464
π	0				5.1	-		-5.1		3787.6	π	0	0	2524.765	388.492

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE							
8-20-85		B. Cotamp		B. SALDIVAR		6834		B.C.L.		2		54							
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER					
Idaho		CLIFTY mtn. - 7 1/2		Id.		Boundary								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				
									3792.7										
TP	236		82° 00' 09"	+20.0	5.0	93° 30'	-14.4	-19.4	}	3773.3	TP	-49	+230	2,524,716	388,722				
TP	236				4.3	93° 40'	-15.1	-19.4		TP									
	290		209° 19' 21"	-	+2.2	88° -	-10.1	-7.9	}	3765.4	BS	+189	+220						
	290				+1.4	88° 10'	-9.3	-7.9		BS									
338	228		206° 45'	-	6.2	88° 10'	+7.3	+1.1		3766.5		-143	-177	2,524,762	388,765			60' 1/2 creek	
X	0				5.1	-		-5.1		3760.3	X	0	0	2,524,905	388,942				
339	101		42° 50'	+20.0	6.8	90° 10'	-0.3	-7.1		3758.3		+39	+93	2,524,944	389,035				
TP	254		48° 42' 43"	-	6.9	90° 10'	-0.7	-7.6	}	3757.8	TP	+92	+237	2,524,997	389,179				
TP	254				6.8	269° 50'	-0.7	-7.5			TP								
	364	363.0	197° 33' 10"	-	+8.7	85° 50'	-26.4	-17.7	}	3740.1	BS	+288	+221						
	364				+8.6	274° 10'	-26.4	-17.8		BS									
340	189		194° -	-	7.9	86° 10'	+12.6	+4.7		3744.8		-148	-117	2,525,137	389,283				
X	0				5.1	-		-5.1		3735.0	X	0	0	2,525,285	389,400				
341	144		45° 40'	+20.0	5.3	92° 10'	-5.4	-10.7		3729.4		+49	+135	2,525,334	389,535				
TP	230		56° 27' 58"	-	3.2	92° 10'	-8.7	-11.9	}	3728.2	TP	+54	+223	2,525,339	389,623				
TP	230				3.9	92° -	-8.0	-11.9			TP								
	162		210° 54' 39"	-	+3.4	-		+3.4	}	3731.6	BS	+102	+126						
	162				+2.6	84	+0.8	+3.4		BS									
X	0				5.1	-		-5.1		3726.5	X	0	0	2,525,441	389,749				
342	58		55° 15'	-	5.8	92° 20'	-2.4	-8.2		3723.4		+11	+57	2,525,452	389,806				

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
8-20-85		B. Cotcamp		B. SALDIVAR		6834		B.C. C		2		55			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Idaho		CLIFFY Mtn. - 7 1/2		ID.		Boundary								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
									3731.6						
TP	285		50° 23' 02"	+20.0	8.5	90° 20'	-1.7	-10.2	}	3721.4	TP	+96	+268	2,525,537	390,017
TP	285				8.4	267° 40'	-1.7	-10.1		TP					
	141		242° 55' 24"	-	+3.6	-		+3.6	}	3725.0	BS	+17	+140		
	141				+3.5	270° -		+3.5		BS					
X	0				5.1	-		-5.1		3719.9	X	0	0	2,525,554	390,157
343	37		242° 10'	-	5.1	-		-5.1		3719.9		-2	-37	2,525,552	390,120
344	290		50° 50'	-	6.7	-		-6.7		3718.3		+74	+280	2,525,628	390,437
TP	317		48° 29' 16"	-	6.7	-		-6.7	}	3718.3	TP	+116	+295	2,525,670	390,452
TP	317				8.2	TH	+1.6	-6.6		TP					
	516		212° 49' 04"	+20.0	+1.0	89° -	-9.0	-8.0	}	3710.3	BS	+312	+411		
	516				+0.9	271° -	-9.0	-8.1		BS					
345	214		212° 15'	-	5.2	89° -	+3.7	-1.5		3708.8		-118	-179	2,525,864	390,684
X	0				5.1	-		-5.1		3705.2	X	0	0	2,525,982	390,863
346	121		66° -	-	5.7	-		-5.7		3704.6		+1	+121	2,525,981	390,984
347	450		64° 05'	-	12.8	BH	-2.3	-15.1		3695.2		+13	+450	2,525,995	391,313
TP	556		62° 41' 38"	-	6.1	91° 20'	-12.9	-19.0	}	3691.3	TP	+71	+551	2,526,053	391,414
TP	556				6.0	268° 40'	-12.9	-18.9		TP					
	426		231° 04' 34"	+20.0	+4.7	88° 30'	-11.2	-6.5	}		BS	+138	+403		
	426				+4.6	271° 30'	-11.2	-6.6			3684.7	BS			
348	206		231° 40'	-	6.7	89° -	+3.6	-3.1		3681.6		-50	-200	2,526,141	391,617

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
8-20-03		[Handwritten]		[Handwritten]		[Handwritten]		[Handwritten]		[Handwritten]		6			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Ibaho		[Handwritten]		[Handwritten]		[Handwritten]		[Handwritten]		[Handwritten]		[Handwritten]		[Handwritten]	
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
									3629.7						Corrected x,y's
349	123		16 25	110	5.7	76	-9.7	-8.6		3679.6					
349	123		16 25	110	5.7	76	-9.7	-8.6		3676.1		+123	2526.191	391.817	2526.191 391.940
349	207		61 47 12		5.0	110	-11.7	-11.7		3675.0			2526.220	392.017	
349	202				3.6	110	-4.1	-3.7							
	251		212 44 06		4.0			+4.0		3677.0					
	251				3.9	74	+1.3	+4.0							
350	0				5.1			-5.1		3673.9					
351	228		25 45	110	4.4	91 30	-10.5	-14.9		3664.1		+185	2526.334	392.224	2526.334 392.500
349	411		27 47 58		4.1	110	-13.8	-18.7		3660.3			2526.518	392.515	
349	431				6.2	110	-12.5	-18.7					2526.607	392.577	
	217		216 26 27		11.7	84 5	-23.7	-11.3		3649.3					
	227				10.0	110	-13.7	-11.1							
352	0				5.1			-5.1		3644.2					
352	227		46 26 01		6.2	72 0	-13.3	-21.5		3627.8			2526.875	393.049	
353	227				6.1	84	-13.3	-21.4							
	177		117 27 26		7.0	110	-23.5	+3.7		3631.5					
	191				7.1	27 0	-2.5	+3.6							
354	0				5.1			-5.1		3626.4					
354	122		9 25		5.1	110	-1.5	-7.4		3624.1		+11	2527.052	393.171	2527.052 393.234
354	241		15 10 46		10.4	110	+5.6	-8.0		3623.5			2527.249	393.310	

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
8-21-85		B. Cotcamp		B. SALDIVAR		6834		B.C. W.		2		57			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Idaho		CLIFFY Mtn -7 1/2'		ID.		Boundary								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
										3623.5					
	114		194 02 14	+20.0	3.2	87° -	-6.0	-2.8	3620.7		BS	+94	+64		
	114				2.9	87° 10	-5.6	-2.7		BS					
X	0				5.1	-		-5.1		3615.6	X	0	0	2527.343 393.374	
355	96		41 30	--	6.3	94 20	-7.3	-13.6		3607.1		+39	+88	2527.382 393.462	
356	426		41 55	--	5.8	94 -	-29.7	-35.5		3585.2		+172	+390	2527.515 393.764	
TP	485	483.8	41 35 03	--	7.8	94 -	-33.8	-41.6		3579.1	TP	+230	+426	2527.573 393.800	
TP	485				7.7	266 -	-33.8	-41.5			TP				
	269	268.0	245 52 53	+20.0	7.0	85 -	-23.4	-16.4	3562.7		BS	+19	+267		
357	0				5.1	-		-5.1			3557.6	X	0	0	2527.592 394.067
358	330		48 36	--	8.3	92 30	-14.4	-22.7		3540.0		+98	+315	2527.690 394.382	
TP	540		48 22 06	--	9.1	92 30	-23.6	-32.7	3530.0		TP	+199	+501	2527.791 394.568	
TP	540				7.6	92 40	-25.1	-32.7				TP			
	296	288.4	252 13 27	+20.0	7.4	84 -	-30.3	-22.9	3507.1		BS	-11	+288		
	290				6.2	84 -									
359	168		250 20	--	6.2	84 -	+17.6	+11.4		3518.5		+14	-167	2527.794 394.689	
X	0				5.1	-		-5.1		3502.0	X	0	0	2527.780 394.856	
360	156		103 50	--	6.6	94 -	-10.9	-17.5		3489.6		-96	+123	2527.684 394.979	
TP	258		92 57 04	--	12.0	92 30	-11.3	-23.3	3477.0		TP	-101	+237	2527.679 395.093	
	165		214 51 10	--	3.3	86 30	-10.1	-6.8				BS	+95	+135	
X	0				5.1	-		-5.1		3471.9	X	0	0	2527.774 395.228	

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
8-21-85		B. Cotamp		B. SALDIVAR		6834		B.C. L		2		58			
AREA		TOPO. MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Idaho		CLIFTY Mtn. - 7 1/2'		ID.		Boundary								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
									3477.0						
361	52		18° 40'	+20.0	5.8	91° 10'	-1.1	-6.9		3470.1		+38	+35	2527.812	395.263
	184		29° 25' 22"	--	10.1	90° 36'	-1.9	-12.0		3465.0	BS	+120	+140	2527.894	395.368
362	153		94° 30'	--	5.2	94° 10'	-11.1	-16.3		3460.7		-174	+134	2527.700	395.362
TP	289	288.2	117° 48' 20"	--	4.8	94° 10'	-21.0	-25.8		3451.2	TP	-214	+194	2527.560	395.422
	296		263° 43' 23"	+20.0	4.0	87° -	-15.5	-11.5	3439.7		BS	-70	+287		
363	147		271° 10'	--	5.6	88° 10'	+4.7	-0.9		3438.8		+63	-133	2527.553	395.576
	0				5.1	-		-5.1		3434.6	TP	0	0	2527.490	395.709
364	183		120° 10'	--	5.6	94° 20'	-13.8	-19.4		3420.3		-149	+106	2527.341	395.815
TP	356	355.4	123° 11' 33"	--	10.8	93° 20'	-20.7	-31.5		3408.2	TP	-285	+213	2527.205	395.922
	366		315° 54' 43"	--	+3.5	87° -	-19.2	-15.7	3392.5		BS	-334	+149		
365	214		319° 25'	--	6.3	86° 20'	+13.7	+7.4		3399.9		+205	-60	2527.076	396.011
	0				5.1	-		-5.1		3387.4	TP	0	0	2526.871	396.071
366	108		115° 10'	+20.0	6.9	92° 20'	-4.4	-11.3		3381.2		-82	+70	2526.789	396.141
TP	241		120° 29' 36"	--	5.6	91° 20'	-5.6	-11.2		3381.3	TP	-186	+153	2526.685	396.224
	294		281° 41' 41"	--	+6.1	TH	-1.5	+4.6	3385.9		BS	-154	+250		
367	110		290° 55'	--	9.1	-		-9.1		3376.8		+78	-77	2526.609	396.397
	0				5.1	-		-5.1		3380.8	TP	0	0	2526.531	396.474
368	217		141° 35'	--	5.8	92° 30'	-9.5	-15.3		3370.6		-210	+53	2526.321	396.527
TP	252		137° 02' 40"	--	5.6	93° -	-13.2	-18.8		3367.1	TP	-232	+98	2526.299	396.572
	344		281° 59' 42"	--	+10.9	83° -	-41.9	-31.0	3336.1		BS	-181	+290		

By 2527.815 X = 395.355
crazy creek

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
8-21-85		B. Cotcamp		B. SALDIVAR		6834		B. Cle		2		59			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Idaho		CLIFF Mtn. - 7 1/2'		Id.		Boundary								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
									3336.1						
369	58		294° 55'	+20.0	5.6	84° 30'	+5.6	±0.0		3336.1		+44	-38	2526,162	396,824
X	0				5.1	-		-5.1		3331.0	X	0	0	2526,118	396,862
TP	128		118° 30'	-	8.3	94° 30'	-10.0	-18.3		3317.8	TP	-96	+85	2526,022	396,747
	136	135.0	239° 05' 33"	-	6.1	83° -	-16.6	-10.5	3307.3		BS	+26	+133		
370	0				5.1	-		-5.1		3302.2	X	0	0	2526,048	397,080
371	329		140° 40'	+20.0	10.0	92° -	-11.5	-21.5		3285.8		-318	+85	2525,730	397,165
TP	370		139° 08' 04"	-	9.3	92° 20'	-15.1	-24.4		3282.9	TP	-345	+132	2525,703	397,212
	343		290° 16' 42"	-	5.0	89° -	-6.0	-1.0			BS	-222	+262		
	343		290° 16' 42"	-	4.9	271° -	-6.0	-1.1	3281.8		BS				
372	61		275° 25'	-	6.8	91° -	-1.1	-7.9		3273.9		+30	-53	2525,511	397,421
X	0				5.1	-		-5.1		3276.7	X	0	0	2525,481	397,474
373	260		97° 40'	+20.0	7.0	91° -	-4.5	-11.5		3270.3		-138	+221	2525,343	397,695
TP	347		97° 41' 21"	-	10.9	91° -	-6.1	-17.0		3264.8	TP	-161	+307	2525,320	397,781
	426	425.1	284° 19' 58"	-	13.9	86° 10'	-28.5	-14.6	3250.2		BS	-240	+351		
374	183		283° 20'	-	5.2	87° 20'	+8.5	+3.3		3253.5		+112	-145	2525,192	397,987
X	0				5.1	-		-5.1		3245.1	X	0	0	2525,080	398,132
375	152		76° 45'	+20.0	6.1	90° 20'	-0.9	-7.0		3243.2		-29	+149	2525,051	398,281
376	481		75° 40'	-	4.5	89° -	+8.4	+3.9		3254.1		-83	+474	2524,997	398,606
TP	665		75° 01' 58"	-	9.8	89° -	+11.6	+1.8		3252.0	TP	-58	+662	2525,022	398,794
	225		303° 59' 10"	-	1.6	TH	-1.1	+0.5	3252.5		BS	-182	+132		

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
8-21-85		B. Cotcamp		B. SALDIVAR		6834		B. C. W		2		60			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Idaho		Clifty Mtn. -7 1/2'		Id.		Boundary								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
									3252.5						
377	68		306 -	+20.0	5.2	88° 10'	+2.2	-3.0		3249.5		+59	-34	2524.899	398.892
π	0				5.1	-		-5.1		3247.4	π	0	0	2524.840	398.926
378	261		131° 45'	-	6.7	91° 40'	-7.6	-14.3		3238.2		-239	+106	2524.601	399.032
TP	316		130° 09' 20"	-	5.4	92° -	-11.0	-16.4		3236.1	TP	-274	+157	2524.566	399.083
	99		263° 14' 03"	-	+3.6	-		+3.6	3239.7		BS	-23	+96		
π	0				5.1	-		-5.1		3234.6	π	0	0	2524.543	399.179
379	150		35° 45'	+20.0	5.5	92° 10'	-5.7	-11.2		3228.5		+75	+130	2524.618	399.309
TP	307		50° 28' -	-	7.3	92° 20'	-12.5	-19.8		3219.9	TP	+103	+289	2524.646	399.468
	228		255° 45' 33"	-	+4.5	-		+4.5	3224.4		BS	-23	+227		
380	68		255 -	-	5.5	-		-5.5		3218.9		+11	-67	2524.634	399.628
π	0				5.1	-		-5.1		3219.3	π	0	0	2524.623	399.695
381	263		109° 35'	+20.0	4.7	92° -	-9.2	-13.9		3210.5		-182	+190	2524.441	399.885
TP	330		107° 29' 21"	-	2.0	92° -	-11.5	-13.5		3210.9	TP	-201	+262	2524.422	399.957
	124		267° 28' 32"	-	+8.2	-		+8.2	3219.1		BS	-37	+118		
π	0				5.1	-		-5.1		3214.0	π	0	0	2524.385	400.075
382	136		62° 45'	-	5.1	88° 40'	+3.2	-1.9		3217.2		+7	+136	2524.392	400.211
TP	250		62° 52' 13"	-	3.7	89° 30'	+2.2	-1.5		3217.6	TP	+31	+248	2524.416	400.323
	182		275° 19' 57"	-	+1.8	-		+1.8	3219.4		BS	-78	+165		
π	0				5.1	-		-5.1		3214.8	π	0	0	2524.338	400.488
383	36		120 20	-	6.4	-		-6.4		3213.0		-29	+21	2524.309	400.509

TP- #19

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
8-21-85		B. Cotcamp		B. SALDIVAR		6834		B.C. le		2		61			
AREA		TOPO. MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
IDAHO		Clifty Mtn. - 7 1/2'		ID.		Boundary								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
									3219.4						
TP	183		104° 20' 54"	+20.0	12.7	91° -	-3.2	-15.9	} 3209.1	3203.5	TP	-103	+151	2524.235	400.639
	594		248° 52' 10"	-	+5.6	-	+5.6	BS		+12	+594				
384	431		248° 40'	-	5.1	-	-5.1			3204.0		+22	-430	2524.269	400.803
385	103		252° 55'	-	5.3	-	-5.3			3203.8		+13	-102	2524.260	401.131
π	0				5.1	-	-5.1			3204.0	π	0	0	2524.247	401.233
386	229		115° 50'	+20.0	4.2	91° -	-4.0	-8.2		3200.9		-176	+147	2524.071	401.380
TP	264		113° 14' 25"	-	4.2	91° -	-4.6	-8.8	} 3192.0	3200.3	TP	-181	+192	2524.066	401.425
	226		264° 27' 22"	-	+3.5	87° -	-11.8	-8.3		BS	-56	+219			
π	0				5.1	-	-5.1			3186.9	π	0	0	2524.010	401.644
387	57		101° 20'	+20.0	5.5	94° -	-4.0	-9.5		3182.5		-33	+46	2523.977	401.690
TP	248		97° 23' 36"	-	5.2	92° 30'	-10.8	-16.0	} 3175.4	3176.0	TP	-114	+220	2523.896	401.864
	149		265° 34' 33"	-	+4.2	88° 10'	-4.8	-0.6		BS	-40	+143			
	149				+4.2	271° 50'	-4.8	-0.6	BS						
388	16		289° -	-	4.4	-	-4.4			3171.0		+11	-12	2523.867	401.995
π	0				5.1	-	-5.1			3170.3	π	0	0	2523.856	402.007
π	261		101° 00' 39"	+20.0	2.6	93° -	-13.7	-16.3	} 3163.2	3159.1	TP	-134	+223	2523.722	402.230
	98		307° 12' 18"	-	+7.5	88° -	-3.4	+4.1		BS	-82	+53			
389	62		282° 50'	-	6.1	-	-6.1			3157.1		+37	-49	2523.677	402.234
π	0				5.1	-	-5.1			3158.1	π	0	0	2523.640	402.283
390	258		115° 50'	+20.0	3.7	95° -	-22.5	-26.2		3137.0		-198	+165	2523.442	402.448

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
8-21-85		B. Cotcamp		B. SALDIVAR		6834		B.C. L		2		62			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Idaho		Clifty Map - 7 1/2'		Id.		Boundary								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
									3163.2						
TP	316	315.0	114° 14' 34"	+20.0	2.1	94° 40'	-25.7	-27.8		3135.4	TP	-220	+226	2,523,420	402,509
	458		255° 14' 10"	-	4.3	88° 30'	-12.0	-7.7	3127.7		BS	-42	+456		
391	193		251° 40'	-	4.1	89° 10'	+2.8	-1.3		3126.4		+20	-192	2,523,398	402,773
π	0				5.1	-		-5.1		3122.6	π	0	0	2,523,378	402,965
392	133		68° 40'	+20.0	6.2	92° 10'	-5.0	-11.2		3116.5		-7	+133	2,523,371	403,098
TP	353		67° 24' 48"	-	3.5	92° -	-12.3	-15.8		3111.9	TP	+16	+352	2,523,394	403,317
	277		265° 22' 18"	-	4.1	86° -	-19.3	-15.2			BS	-73	+266		
	277				4.0	274° -	-19.3	-15.3	3096.6		BS				
393	163		265° 10'	+20.0	5.1	86° 10'	+10.9	+5.8		3102.4		+54	-154	2,523,375	403,429
π	0				5.1	-		-5.1		3091.5	π	0	0	2,523,321	403,583
394	166		91° 30'	-	6.0	95° 10'	-14.9	-20.9		3075.7		-72	+149	2,523,249	403,732
TP	321	320.2	96° 15' 46"	-	5.5	94° 10'	-23.3	-28.8		3067.8	TP	-111	+300	2,523,210	403,883
	166	165.4	218° 36' 43"	-	4.4	85° -	-14.5	-10.1	3057.7		BS	+86	+141		
395	0				5.1	-		-5.1		3052.6	π	0	0	2,523,296	404,024
TP	309	308.2	31° 08' 21"	+20.0	5.3	94° 10'	-22.5	-27.8		3029.9	TP	+193	+240	2,523,489	404,264
	784		245° 21' 09"	-	4.5	88° 36'	-19.2	-14.7			BS	+64	+781		
	784				4.4	271° 24'	-19.2	-14.8	3015.1		BS				
396	761		245° 30'	-	4.8	88° 40'	+17.7	+12.9		3028.0		-3	-761	2,523,550	404,284
397	447		244° 10'	-	6.6	74	+2.2	-4.4		3010.7		-12	-447	2,523,541	404,598
398	122		254° 40'	-	4.9	-		-4.9		3010.2		+19	-121	2,523,572	404,924

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
8-21-85		B. Cotcamp		B. SALDIVAR		6834		B.C. W		2		63			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Idaho		CLIFTY Mtn. - 7 1/2		Idaho		Boundary								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
									3015.1						
π	0				5.1	-		-5.1		3010.0	π	0	0	2,523,553	405,045
399	207		88° 50'	+20.0	5.1	-		-5.1		3010.0		-81	+190	2,523,472	405,235
400	533		84° 05'	-	6.3	-		-6.3		3008.8		-168	+506	2,523,385	405,551
TP	781		83° 55' 22"	-	5.8	-		-5.8		3009.3	TP	-188	+758	2,523,365	405,803
TP	781				9.7	TH	+3.9	-5.8			TP				
	328		248° 51' 06"	+20.0	4.7	-		+4.7	3014.0		BS	+7	+328		
	328				6.3	TH	-1.6	+4.7			BS				
401	248		246° -	-	4.6	-		-4.6		3009.4		+1	-248	2,523,373	405,883
π	0				5.1	-		-5.1		3008.9	π	0	0	2,523,372	406,131
402	81		88° -	-	5.2	-		-5.2		3008.8		-31	+75	2,523,341	406,206
403	391		76° 40'	-	5.2	-		-5.2		3008.8		-74	+384	2,523,298	406,515
404	720		78° -	-	2.9	BM	-3.6	-6.5		3007.5		-153	+703	2,523,219	406,834
TP	796		77° 29' 33"	-	6.0	-		-6.0			TP	-104	+789	2,523,268	406,920
TP	796				10.1	TH	+4.0	-6.1		3007.9	TP				
	152		235° 14' 40"	+20.0	4.3	-		+4.3	3012.2		BS	+39	+147		
	152				5.1	TH	-0.8	+4.3			BS				
π	0				5.1	-		-5.1		3007.1	π	0	0	2,523,307	407,067
405	104		47° 25'	-	4.8	-		-4.8		3007.4		+33	+99	2,523,340	407,166
TP	187		47° 20' 52"	-	0.7	-		-0.7		3011.5	TP	+72	+173	2,523,379	407,240
TP	187				1.6	TH	+0.9	-0.7			TP				

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
8-21-85		B. Cotcamp		B. SANDIVAR		6834		B.C.C.		2		64			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Idaho		CLIFTY Mtn. - 7 1/2		Id.		Boundary								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
										3011.5					
	300		243 13 04	+20.0	1.9	-		+1.9	3013.4		BS	+35	+298		
	300				+3.4	TH	-1.5	+1.9		BS					
406	71		236 40	-	5.5	-		-5.5		3007.9		-11	-70	2523.463	407.468
	0				5.1	-		-5.1		3008.3	X	0	0	2523.414	407.938
407	257		46 10	-	4.9	-		-4.9		3008.5		+86	+242	2523.500	407.780
TP	454		45 26 21	-	4.3	TH	+2.3	-2.0		3011.4	TP	+189	+413	2523.603	407.951
TP	454				4.2	TH 270	+2.3	-1.9			TP				
	187		228 37 03	+20.0	3.3	-		+3.3	3014.7		BS	+68	+174		
	187				+4.2	TH	-0.9	+3.3		BS					
408	67		197 35	-	4.1	-		-4.1		3010.6		-50	-45	2523.621	408.080
	0				5.1	-		-5.1		3009.6	X	0	0	2523.671	408.125
TP	174		39 11 16	-	6.4	-		-6.4		3008.3	TP	+89	+149	2523.760	408.274
TP	174				7.3	TH	+0.9	-6.4			TP				
	297		240 37 41	-	5.7	-		+5.7	3014.0		BS	+48	+293		
	297				+4.2	TH	+1.5	+5.7		BS					
409	210		240	+20.0	5.2	-		-5.2		3008.8		-21	-209	2523.787	408.358
	0				5.1	-		-5.1		3008.9	X	0	0	2523.808	408.567
410	119		62 10	-	6.0	-		-6.0		3008.0		+7	+119	2523.815	408.686
411	439		49 26 09	-	7.2	-		-7.2		3006.8	TP	+154	+411	2523.962	408.978
411	439				9.4	TH	+2.2	-7.2			TP				CLIFTY mtn. - 7 1/2

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE						
8-21-85		B. Cotcamp		B. SALDIVAR		6834		B.C. W.		2		65						
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER				
Idaho		LEONIA-7 1/2'		Id.		Boundary								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			
										3006.8								
	262		241 44 40	+20.0	6.1	-		+6.1	3012.9		BS	+38	+259					
	262				+7.4	TH	-1.3	+6.1		BS								
	π	0			5.1	-		-5.1		3007.8	π	0	0	2524.000	409.237			
412	51		49 -	-	4.5	-		-4.5		3008.4		+15	+49	2524.015	409.286			
413	381		44 51 51	-	4.1	-		-4.1	3008.8		TP	+162	+345	2524.162	409.582			
413	381				6.0	TH	+1.9	-4.1		TP								
	936		234 10 10	+20.0	3.4	-		+3.4	3012.1		BS	+255	+901					
	936				+3.3	270 -		+3.3		BS								
414	607		233 15	-	4.5	-		-4.5		3007.6		-131	-593	2524.286	409.890			
415	278		229 30	-	4.7	-		-4.7		3007.4		-78	-267	2524.339	410.216			
	π	0			5.1	-		-5.1		3007.0	π	0	0	2524.417	410.483			
416	54		29 05	+20.0	4.5	-		-4.5		3007.6		+32	+43	2524.449	410.526			
417	384		29 35	-	4.7	-		-4.7		3007.4		+226	+310	2524.643	410.793			
418	711		26 22 49	-	5.6	-		-5.6	3006.5		TP	+491	+515	2524.908	410.998			
418	711				5.5	270 -		-5.5		TP								
	659		198 41 09	+20.0	6.0	-		+6.0	3012.5		BS	+514	+412					
	659				+5.9	270 -		+5.9		BS								
419	330		199 25	-	5.3	-		-5.3		3007.2		-239	-228	2525.183	411.282			
420	0				5.1	-		-5.1		3007.4	π	0	0	2525.422	411.410			
421	330		24 50	-	5.2	-		-5.2		3007.3		+216	+250	2525.638	411.660			

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
8-22-85		B. Cotcamp		B. SALDIVAR		6834		B.C. ✓		2		66			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Idaho		LEONIA-7 1/2'		Idaho		Boundary								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
									3012.5						
422	660		24° 15'	+20.0	5.2	-		-5.2		3007.3		+437	+495	2525.858	411.905
TP	947		24° 29' 33"	--	5.3	-		-5.3		3007.2	TP	+676	+664	2526.098	412.074
TP	947				5.2	270 -		-5.2			TP				
	649		206° 24' 28"	--	+4.7	-		+4.7	3011.9		BS	+448	+470		
	649				+4.6	270 -		+4.6			BS				
423	607		206° -	+20.0	5.0	-		-5.0		3006.9		-388	-467	2526.158	412.077
424	218		204° 40'	--	4.9	-		-4.9		3007.0		-183	-210	2526.363	412.344
X	0				5.1	-		-5.1		3006.8	X	0	0	2526.546	412.544
425	51		15° 30'	--	5.0	-		-5.0		3006.9		+39	+33	2526.585	412.577
426	380		10° 05'	--	4.8	-		-4.8		3007.1		+314	+215	2526.860	412.759
TP	627		8° 34' 57"	--	5.2	-		-5.2		3006.7	TP	+551	+300	2527.097	412.844
TP	627				5.1	270 -		-5.1			TP				
	301		162° 30' 46"	+20.0	3.2	-		+3.2	3009.9		BS	+301	+13		
	301				+4.7	TH	-1.5	+3.2			BS				
427	217		163° 05'	--	4.1	-		-4.1		3005.8		-215	-28	2527.183	412.829
X	0				5.1	-		-5.1		3004.8	X	0	0	2527.398	412.857
428	102		317° 10'	--	4.0	-		-4.0		3005.9		+97	-32	2527.495	412.825
TP	226		317° 34' 30"	--	2.3	-		-2.3		3007.6	TP	+209	-86	2527.607	412.771
TP	226				2.2	270 -		-2.2			TP				

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
8-21-85		B. Cotcamp		B. SALDIVAR		6834		B.C. W		2		67			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Idaho		LEONIA - 7 1/2'		Idaho		Boundary								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
									3007.6						
	211		180° 17' 32"	+20.0	6.2	-		+6.2	3013.8		BS	+198	+73		
	211				5.1	BH	+1.1	+6.2		BS					
	45		192° 30'	-	4.9	-		-4.9	3008.9			-38	-24	2527.767	412.820
	0				5.1	-		-5.1	3008.7		X	0	0	2527.805	412.844
429	29		95° 10'	-	6.0	BH	-0.1	-6.1	3007.7			-14	+25	2527.791	412.869
430	353		87° -	-	6.8	-		-6.8	3007.0			-128	+329	2527.677	413.173
431	674		84° 33' 36"	-	6.6	BH	-3.4	-10.0	3003.8		TP	-169	+652	2527.636	413.496
431	674				13.3	TM	+3.4	-9.9		TP					
	790		224° 54' 22"	+20.0	7.3	89° -	-13.8	-6.5	2997.3		BS	+335	+715		
	790				7.2	271° -	-13.8	-6.6		BS					
432	459		223° 05'	-	10.0	89° 10'	+6.7	-3.3	2994.0			-177	-424	2527.794	413.787
433	131		229° 40'	-	4.6	89° -	+2.3	-2.3	2995.0			-36	-126	2527.935	414.085
NAIL 2nd tree	27		338° 12' 48"	-	2.6	-		-2.6	2994.7			+27	+1	2527.998	414.212
	0				5.1	-		-5.1	2992.2		X	0	0	2527.971	414.211
434	199		68° 10'	+20.0	4.8	92° 30'	-8.7	-13.5	2983.8			-9	+199	2527.962	414.410
TP	310		68° 15' 06"	-	4.0	92° 30'	-13.5	-17.5	2979.8		TP	+9	+310	2527.980	414.521
TP	310				3.9	267° 30'	-13.5	-17.4		TP					
	578		206° 39' 03"	-	5.6	87° 30'	-25.2	-17.6	2960.2		BS	+396	+420		
	578				5.5	272° 30'	-25.2	-19.7		BS					
435	364		204° 40'	-	5.0	87° 40'	+14.8	+9.8	2970.0			-239	-275	2528.137	414.666

x - 412.215 y - 2527.100
Creek

x - 413.510 y - 2527.635
TRAIL

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
8-21-85		B. Cotcamp		B. SANDIVAR		6834		B.C. [Signature]		2		68			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Idaho		LEONIA - 7 1/2'		Idaho		Boundary								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
									2960.2						
436	34		197° 40'	+20.0	5.2	87° 40'	+1.4	-3.8		2956.4		-25	-23	2528.351	414.918
π	0				5.1	-		-5.1		2955.1	π	0	0	2528.376	414.941
437	299		45° 20'	-	5.3	92° 10'	-11.3	-16.6		2943.6		+104	+280	2528.480	415.221
TP	598		43° 17' 09"	-	6.1	92° 10'	-22.6	-28.7	}	2931.5	TP	+269	+534	2528.645	415.475
TP	598				6.0	267° 50'	-22.6	-28.6			TP				
	476		191° 05' 32"	+20.0	5.5	87° 30'	-20.8	-15.3	}	2916.2	BS	+407	+246		
	476				5.4	272° 30'	-20.8	-15.4			BS				
438	445		191° 20'	-	4.8	87° 32'	+19.2	+14.4		2930.6		-362	-259	2528.696	415.462
439	116		185° 15'	-	5.2	87° 30'	+5.1	-0.1		2916.1		-101	-57	2528.951	415.664
π	84		189° 01' 35"	-	4.8	87° 40'	+3.4	-1.4		2914.8		-70	-46	2528.982	415.675
π	0				5.1	-		-5.1		2911.1	π	0	0	2529.052	415.721
440	213		352° 35'	+20.0	5.0	92° 20'	-8.7	-13.7		2902.5		+204	+62	2529.256	415.783
441	539		349° 20'	-	7.5	92° 20'	-21.9	-29.4		2882.2868		+524	+127	2529.576	415.848
TP	669		355° 42' 33"	-	10.2	92° 20'	-27.2	-37.4	}	2878.8	TP	+643	+181	2529.695	415.902
TP	669				10.1	267° 40'	-27.2	-37.3			TP				
	765	763.6	203° 48' 24"	-	5.0	86° 30'	-46.7	-41.7	}	2837.1	BS	+551	+529		
	765				4.9	273° 30'	-46.7	-41.8			BS				
442	581		203° -	-	5.8	86° 30'	+35.5	+29.7		2866.8		-394	-427	2529.852	416.004
443	252		199° 10'	-	5.7	86° 30'	+15.4	+9.7		2846.8		-183	-173	2530.003	416.258
π	0				5.1	-		-5.1		2832.0	π	0	0	2530.246	416.431

DATE 4-22-85 INSTRUMENT MAN B. Cotcamp ROD MAN B. SALDIVAR PARTY NUMBER 6834 NOTES CHECKED BY B.C. [initials] LINE NO. 2 PAGE 69
 AREA Idaho TOPO MAP LEONIA-76' STATE Id. COUNTY Boundary TWP RANGE PPM PARTY MANAGER W. Cassidy

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									2837.1					
444	79		12°20'	+20.0	4.9	93°30'	-4.8	-9.7		2827.4		+67	+42	2530.313 416.473
445	402		13°50'	-	5.7	93°30'	-24.5	-30.2		2806.9		+334	+224	2,530.580 416.655 E.O.L. Line # 2
TP	672	669.9	55°48'09"	-	6.8	94°30'	-52.7	-59.5		2777.6	TP	+164	+649	2,530.410 417.080
TP	672				6.7	265°30'	-52.7	-59.4			TP			
	418	417.4	294°47'06"	-	+4.2	87°-	-21.9	-17.7	2759.9		BS	-294	+296	
	418				+4.1	273-	-21.9	-17.8			BS			
K	0				5.1	-		-5.1		2754.8	K	0	0	2,530.116 417.376
K	221		50°49'50"	-	11.4	-		-11.4		2748.5	K	+73	+209	2,530.189 417.585 $y=2,530.210$ $x=417.600$ $h=inter.$
TP	418				4.2	87°-	+21.9	+17.7		2777.6	TP			
TP	418				4.1	273-	+21.9	+17.8			TP			
	672				+6.8	94°30'	+52.7	+59.5	2837.1		BS			
K	0				5.1	-		-5.1			K			
TP	765				5.0	86°30'	+46.7	+41.7		2878.8	TP			
	669				+10.2	92°20'	+27.2	+37.4	2916.2		BS			
K	0				5.1	-		-5.1			K			
441	539				7.5	92°20'	-21.9	-29.4		2886.8	TP			
	188				+3.5	93°30'	+11.5	+15.0	2901.8		BS			
K	0				5.1	-		-5.1			K			
TP	142				3.9	93°30'	-8.7	-12.6		2889.2	TP			
	720				+5.3	80°30'	-118.8	-113.5	2775.7		BS			