

SURVEY NOTES-HIGH RESOLUTION DATA  
GEO-445

Geosource Inc.

PAGE 1 of 35

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5.13.83		B. Cotcamp		D. W. Rinkle		6834		SW		3		1			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
NEVADA		SHOSHONE MEADOWS - 15		NEVADA		MURCHILL								L. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
TR1	STATION	615 OF	Line #2 - Elev. 3592.8		5-1905.221	x-	741829			3592.8	TR1			1-1905.221 X-741.829	
BS	4368		339° 40' 48"	+15.8°	+13.4	90° 20'	+25.4	+38.8			BS	-4354	+344	STA. 615 E.O.L. Line #2 Elev. 3592.8	
BS	4368				+10.8	90° 22'	+28.0	+38.8	3631.6		BS				
X	0				5.2	-		-5.2			X	0	0		
TP	3782		160° 22' 08"	+15.8°	7.4	89° 20'	+44.0	+36.6		3626.4	TP	-3773	+253	1,900,867 742,173	
TP	3762				13.8	89° 14'	+50.6	+36.8	3615	3668.3	TP			1,897,094 742,426	
	2203		342° 30' 18"	+15.8°	12.3	90° 30'	+19.2	+31.5	3699.8		BS	-2202	+65		
	2203				+9.8	90° 34'	+21.8	+31.6			BS				
X	0				5.2	-		-5.2			X	0	0		
TP	3280		171° 22' 06"	+15.8°	10.5	89° 36'	+22.9	+12.4		3694.6	TP	-3254	-409	1,894,892 742,491	
TP	3280				14.3	89° 32'	+26.7	+12.4		3712.2	TP			1,891,638 742,082	
	3220		74° 06' 28"	+15.8°	13.7	88° 30'	-84.3	-70.6			BS	-5	-3219		
	3220				+8.3	88° 36'	-78.7	-70.4	3641.8		BS				
X	0				5.2	-		-5.2			X	0	0		
TP	1976		275° 14' 59"	+15.8°	11.6	90° 20'	-11.5	-23.1		3636.6	TP	+710	-1844	1,891,633 738,863	
TP	1976				14.8	90° 14'	-8.0	-22.8	2293	3618.9	TP			1,892,343 737,019 SHOSHONE MEADOWS	
	2625		82° 29' 37"	+15.8°	14.3	89° 20'	-30.5	-16.2			BS	+379	-2597	HUMBOLDT SALT MARSH	
	2625				+9.8	89° 26'	-26.0	-16.2	3602.7		BS			↓	
X	0				5.2	-		-5.2			X	0	0		
TP	2289		276° 47' 44"	+15.8°	11.5	90° 20'	-13.3	-24.8		3597.5	TP	+879	-2113	1,892,722 734,422	
TP	2289				14.2	90° 16'	-10.7	-24.9		3571.9	TP			1,893,601 732,309	

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 SURVEY NOTES-HIGH RESOLUTION DATA

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
5.13.83		B. Cotcamp		D. Wrinkle		6834		JW		3	2				
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
NEVADA		Humboldt Salt Marsh		NEVADA		Churchill					L. Davis				
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 X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									3577.9						
	2629		83° 20' 20"	+15.8°	13.4	89° 20'	-30.6	-17.2	3560.7		BS	+418	-2595		
	2629				10.2	89° 24'	-27.5	-17.3			BS				
1	1962		277° 50'	+15.8°	8.6	90° 20'	-11.4	-20.0		3540.7		+787	-1797	1,894,806	727,917 B.O.L. LINE #3
2	1633		278° 48'	" "	7.8	90° 20'	-9.5	-17.3		3543.4		+680	-1485	1,894,699	728,229
3	1305		278° 33'	" "	8.6	90° 20'	-7.6	-16.2		3544.5		+538	-1189	1,894,557	728,525
4	983		274° 55'	" "	6.9	90° 20'	-5.7	-12.6		3548.1		+348	-919	1,894,367	728,795
5	660		270° 28'	" "	8.2	90° 20'	-1.9	-10.1		3550.6		+185	-634	1,894,204	729,080
6	330		271° 04'	" "	6.9	90° 20'	-1.0	-7.9		3552.8		+96	-316	1,894,115	729,398
7	0				5.2	-		-5.2		3555.5	X	0	0	1,894,019	729,714
8	330		83° 57'	+15.8°	6.4	89° 20'	+3.8	-2.6		3558.1		-56	+325	1,893,963	730,039
9	660		82° 44'	" "	7.3	89° 20'	+7.7	+0.4		3561.1		-98	+653	1,893,921	730,367
10	989		83° 45'	" "	8.2	89° 20'	+11.5	+3.3		3564.0		-164	+975	1,893,955	730,689
11	1317		83° 22'	" "	6.1	89° 30'	+11.5	+5.4		3566.1		-210	+1300	1,893,809	731,014
12	1642		81° 54'	" "	6.0	89° 30'	+14.3	+8.3		3569.0		-220	+1627	1,893,759	731,341
13	1973		81° 57'	" "	6.3	89° 30'	+17.2	+10.9		3571.6		-266	+1955	1,893,753	731,669
14	2302		82° 28'	" "	9.8	89° 26'	+22.8	+13.0		3573.7		-331	+2278	1,893,688	731,992
15	2629		83° 20' 20"	" "	13.4	89° 20'	+30.6	+17.2			TP	-418	+2595	1,893,601	732,309
15	2629				10.2	89° 24'	+27.5	+17.3		3578.0	TP				
	2289		276° 47' 44"	+15.8°	11.5	90° 20'	+13.3	+24.8	3602.8		BS	-879	+2113		
	2289				14.2	90° 16'	+10.7	+24.9				BS			

KEY NOTES-HIGH RESOLUTION DATA

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
5-13-83		B. Cotcamp		D. Weinkle		6834		DW		3	3				
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
NEVADA		SHOSHONE meadows - 15		NEVADA		CHURCHILL					L. Davis				
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									3602.8						
16	1964		275° 21'	+15.8°	9.1	90° 20'	-11.4	-20.5		3582.3		+709	-1832	1893,431	732,590
17	1642		273° 10'	"	8.0	90° 20'	-9.6	-17.6		3585.2		+534	-1553	1893,256	732,869
18	1314		271° 32'	"	7.0	90° 20'	-7.7	-14.7		3588.1		+391	-1254	1893,113	733,168
19	985		272° 27'	"	7.7	90° 20'	-5.7	-13.4		3589.4		+308	-935	1893,030	733,487
20	658		275° 30'	"	6.3	90° 20'	-3.8	-10.1		3592.7		+239	-613	1892,961	733,809
21	330		280° 36'	"	6.1	90° 20'	-1.9	-8.0		3594.8		+147	-296	1892,869	734,126
22	0				5.2	-		-5.2		3597.6	π	0	0	1892,722	734,422
23	330		94° 24'	+15.8°	6.6	89° 20'	+3.8	-2.8		3600.0		-114	+310	1892,608	734,732
24	658		89° 32'	"	6.8	89° 20'	+7.7	+0.9		3603.2		-174	+635	1892,548	735,057
25	985		86° 25'	"	9.0	89° 20'	+11.5	+2.5		3605.3		-208	+963	1892,514	735,385
26	1313		84° 33'	"	8.9	89° 20'	+15.3	+6.4		3609.2		-236	+1292	1892,484	735,714
27	1641		83° 31'	"	9.7	89° 20'	+19.1	+9.4		3612.2		-266	+1619	1892,456	736,041
28	1970		82° 46'	"	9.9	89° 26'	+19.5	+9.6		3612.4		-293	+1948	1892,429	736,370
29	2298		81° 48'	"	10.2	89° 26'	+22.7	+12.5		3615.3		-304	+2278	1892,418	736,700
30	2625		82° 29' 37"	"	14.3	89° 20'	+30.5	+16.2		3619.0	TP	-379	+2597	1892,343	737,019
30	2625				9.8	89° 26'	+26.0	+16.2			TP				
	1646		276° 27' 40"	+15.8°	13.3	BM	+8.2	+21.5	3640.5		BS	-624	+1523		
	1646				11.9	90° 20'	+9.6	+21.5			BS				
31	1317		275° 59'	+15.8°	13.6	90° 10'	-3.8	-17.4		3623.1		+489	-1223	1892,208	737,319
32	987		276° 20'	"	11.5	90° 10'	-2.9	-14.4		3626.1		+372	-914	1892,091	737,628

Humboldt SAIR MARCH

SURVEY NOTES-HIGH RESOLUTION DATA  
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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
5.13.83		B. Cotcamp		D. Winkle		6834		DW		3	4			
AREA		TOPO MAP	STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER					
NEVADA		SHOSHONE meadows - 15'	NEVADA	CHURCHILL					L. Davis					
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									3640.5					
33	659		277° 20'	+15.8°	8.5	90° 10'	-1.9	-10.4		3630.1		+259	-606	1,891,978 737,936
34	330		278° 39'	" "	5.9	90° 10'	-1.0	-6.9		3633.6		+137	-300	1,891,856 738,242
35	0				5.2	-		-5.2		3635.3	TP	0	0	1,891,719 738,542
36	330		94° 55'	+15.8°	7.9	89° 20'	+3.8	-4.1		3636.4		-117	+309	1,891,602 738,851
37	660		94° 32'	" "	8.9	89° 20'	+7.7	-1.2		3639.3		-229	+619	1,891,490 739,161
38	989		" "	" "	9.6	89° 20'	+11.5	+1.9		3642.4		-344	+927	1,891,375 739,469
39	1319		94° 49'	" "	8.9	89° 20'	+15.3	+6.4		3646.9		-464	+1235	1,891,255 739,777
40	1646		93° 15'	" "	10.8	89° 20'	+19.1	+8.3		3648.8		-537	+1556	1,891,182 740,098
41	1974		92° 10' 12"	" "	11.3	89° 20'	+23.0	+11.7		3652.2	TP	-609	+1878	1,891,110 740,420
41	1974				7.9	89° 26'	+19.5	+11.6			TP			
	2723		270° 44' 09"	+15.8°	6.7	90° 30'	+23.8	+30.5		3682.2	BS	-775	+2610	
	2723				14.6	90° 20'	+15.8	+30.4			BS			
42	2392		270° 49'	" "	7.3	90° 30'	-20.9	-28.2		3654.5		+684	-2292	1,891,019 740,738
43	2065		269° 41'	" "	12.2	90° 20'	-12.0	-24.2		3658.5		+551	-1990	1,890,886 741,040
44	1736		269° 17'	" "	10.0	90° 20'	-10.1	-20.1		3662.6		+452	-1676	1,890,787 741,354
45	1406		268° 26'	+15.8°	9.9	90° 20'	-8.2	-18.1		3664.6		+346	-1363	1,890,681 741,667
46	1082		266° 25'	" "	8.2	90° 20'	-6.3	-14.5		3668.2		+229	-1058	1,890,564 741,972
47	752		267° 25'	" "	7.8	90° 20'	-4.4	-12.2		3670.5		+172	-732	1,890,507 742,298
48	423		269° 33'	" "	6.7	90° 20'	-2.5	-9.2		3673.5		+112	-408	1,890,447 742,622
49	93		272° 55'	" "	5.8	90° 20'	-0.5	-6.3		3676.4		+30	-88	1,890,365 742,942

VEY NOTES-HIGH RESOLUTION DATA

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
5-17-83		B. Cotcamp		D. Winkle		6834		DW		3	5			
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER			
NEVADA		SHOSHONE meadows-15		NEVADA		CLATSOP					L. Davis			
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									3682.7					
π	0				5.2	-		-5.2						
50	237		121° 50'	+15.8°	5.7	89° 20'	+2.8	-2.9		3677.5	π	0	0	1,890,335 743,030
51	559		114° 28'	" "	7.6	89° 20'	+6.5	-1.1		3679.8		-175	+160	1,890,160 743,190
52	838		99° 35'	" "	7.1	89° 20'	+9.8	+2.7		3681.6		-361	+427	1,889,974 743,457
53	1141		91° 57'	" "	7.8	89° 20'	+13.3	+5.5		3685.4		-359	+757	1,89,976 743,787
54	1462		88° 45'	" "	5.9	89° 20'	+17.0	+11.1		3688.2		-348	+1087	1,889,987 744,117
55	1788		86° 58'	+15.8°	8.6	89° 20'	+20.8	+12.2		3693.8		-367	+1415	1,889,968 744,445
56	2094		83° 15'	" "	8.8	89° 20'	+24.4	+15.6		3694.9		-395	+1744	1,889,940 744,774
57	2413		81° 09'	" "	9.8	89° 20'	+28.1	+18.3		3698.3		-329	+2068	1,890,006 745,098
58	2740		80° 13'	" "	9.9	89° 20'	+31.9	+22.0		3701.0		-292	+2395	1,890,043 745,425
59	3065		79° 06 11	" "	14.7	89° 10'	+44.6	+29.9		3704.7		-287	+2725	1,890,048 745,755
59	3065				10.8	89° 14'	+41.0	+30.2	+301.3	3712.8	TP	-262	+3053	1,890,073 746,083
	985		252° 25 13"	+15.8°	11.3	-		+11.3	3724.1	3712.8	TP			
	985				6.4	B4	+4.9	+11.3			BS	+31	+985	
60	657		249° 58'	+15.8°	7.9	90° 20'	-3.8	-11.7		3712.4		-48	-655	1,890,054 746,413
61	330		253° 55'	" "	6.9	90° 20'	-1.9	-8.8		3715.3		-2	-330	1,890,102 746,738
62	0				5.2	-		-5.2		3718.9	π	0	0	1,890,104 747,068
63	329		93° 31'	+15.8°	4.6	89° 10'	+4.8	+0.2		3724.3		-109	+310	1,890,104 747,378 LAST STA. ON ROAD
64	655		86° 44'	" "	8.1	89° 10'	+9.5	+1.4		3725.5		-142	+639	1,889,962 747,707 CROSS COUNTRY

SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
5-17-83		B. Cotcamp		D. Wrinkle		6834		DW		3	6			
AREA		TOPO MAP	STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER					
NEVADA		Shoshone meadows-15	NEVADA	Churchill					L. O'Quis					
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.	
									3724.1					
65	984		83° 54' 01"	+15.8°	10.6	89° 10'	+14.3	+3.7		3727.8	TP	-166	+970	1889,938 748,038
65	984				7.7	89° 20'	+11.4	+3.7			TP			
	2629		259° 04' 53"	+15.8°	9.6	90° 30'	+22.9	+32.5	3760.3		BS	-224	+2619	
	2629				14.0	90° 24'	+18.4	+32.4			BS			
66	2301		258° 43'	+15.8°	9.1	90° 30'	-20.1	-29.2		3731.1		+181	-2294	1889,895 748,363
67	1971		258° 33'	"	11.8	90° 20'	-11.5	-23.3		3737.0		+149	-1965	1889,865 748,692
68	1646		256° 53'	"	10.7	90° 20'	-9.6	-20.3		3740.0		+77	-1644	1889,791 749,013
69	1317		255° 48'	"	9.8	90° 20'	-7.7	-17.5		3742.8		+37	-1316	1889,751 749,341
70	990		254° 03'	"	9.3	90° 20'	-5.8	-15.1		3745.2		-3	-990	1889,711 749,667
71	660		254° 56'	"	9.0	90° 20'	-3.8	-12.8		3747.5		+8	-660	1889,722 749,997
72	330		255° 40'	"	7.0	90° 20'	-1.9	-8.9		3751.4		+8	-330	1889,722 750,327
73	0				5.2	-		-5.2		3755.1	TP	0	0	1889,714 750,657
74	330		85° 23'	+15.8°	6.3	89° 10'	+4.8	-1.5		3758.8		-64	+324	1889,650 750,981
75	659		86° 34'	"	6.8	89° 10'	+9.6	+2.8		3763.1		-141	+644	1889,573 751,301
76	986		88° 16'	"	7.2	89° 10'	+14.3	+7.1		3767.4		-240	+956	1889,474 751,613
77	1316		88° 33'	"	10.9	89° 10'	+19.1	+8.2		3768.5		-326	+1275	1889,388 751,932
78	1642		86° 39'	"	12.4	89° 10'	+23.9	+11.5		3771.8		-354	+1603	1889,360 752,260
79	1967		84° 47'	"	8.8	89° 18'	+24.0	+15.2		3775.5		-361	+1934	1889,353 752,591
80	2295		84° 47' 24"	"	7.5	89° 20'	+26.7	+19.2			TP	-422	+2256	1889,292 752,913
80	2295				13.9	89° 10'	+33.4	+19.5	19.4	3779.7	TP			

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5.17.83		B. Cotcamp		D. Winkle		6834		DW		3		7			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
NEVADA		Shoshone Meadows -15'		NEVADA		CHURCHILL								L. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									3779.7						
	1317		279° 10' 54"	+158°	13.9	84°	6.6	+20.5	3800.2		BS	-556	+1194		
	1317				+12.8	90° 20'	+7.7	+20.5		BS					
81	988		281° 19'	+158°	11.1	90° 20'	-5.8	-16.9		3783.3		+450	-879	1,889,186	753,228
82	660		281° 43'	" "	6.0	90° 20'	-3.8	-9.8		3790.4		+305	-585	1,889,041	753,522
83	330		280° 23'	" "	7.7	90° 20'	-1.9	-9.6		3790.6		+146	-296	1,888,882	753,811
84	0				5.2	-		-5.2		3795.0	TP	0	0	1,888,736	754,107
85	330		106° 41'	+158°	5.8	89° 10'	+4.8	-1.0		3799.2		-177	+278	1,888,559	754,385
86	660		106° 43'	" "	6.9	89° 10'	+9.6	+2.7		3802.9		-355	+557	1,888,381	754,664
87	990		106° 46'	" "	7.0	89° 10'	+14.4	+7.4		3807.6		-533	+834	1,888,203	754,941
88	1316		108° 42' 58"	" "	7.2	89°	+23.0	+15.8		3816.0	TP	-746	+1084	1,887,990	755,191
88	1316				10.9	88° 50'	+26.8	+15.9			TP				
	2423		283° 19' 41"	+158°	13.7	90° 40'	+28.2	+41.9	3857.8		BS	-1179	+2116		
	2423				+9.3	90° 46'	+32.4	+41.7	41.85		BS				
89	2104		281° 26'	+158°	6.7	91°	-36.7	-43.4		3814.4		+963	-1871	1,887,774	755,436
90	1780		279° 31'	" "	8.2	91°	-31.1	-39.3		3818.5		+761	-1609	1,887,572	755,628
91	1453		277° 33'	" "	8.1	91°	-25.4	-33.5		3824.3		+576	-1334	1,887,387	755,973
92	1125		279° 08'	" "	10.3	91°	-19.6	-29.9		3827.9		+474	-1020	1,887,285	756,287
93	799		280° 13'	" "	8.7	90° 50'	-11.6	-20.3		3837.5		+350	-718	1,887,161	756,589
94	469		280° 06'	" "	9.5	90° 50'	-6.8	-16.3		3841.5		+205	-422	1,887,016	756,885
95	140		280° 36'	" "	9.1	90° 50'	-2.0	-11.1		3846.7		+62	-125	1,886,828	757,182

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
5.17.83		B. Cotcamp		D. Wrinkle		6834		DW		3	8					
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER					
NEVADA		SHOSHONE MEADOWS - 15		NEVADA		CHURCHILL					L. Davis					
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	X
									3857.8							
π	0				5.2	-		-5.2		3852.6	π	0	0	1,886,811	757,307	y - 1,886,700 x - 757,430
96	115		120° 54' 35"	+15.8°	5.8	87° 20'	+5.3	-0.5		3857.3	TP	-84	+79	1,886,722	757,386	T-TRAIL SOUTH EL3558
97	187		117° 36'	u u	8.8	87° 20'	+8.7	-0.1		3857.7		-128	+136	1,886,683	757,443	
98	499		97° 48'	u u	11.8	89° 30'	+4.4	-7.4		3850.4		-200	+457	1,886,611	757,764	
99	824		94° 02'	u u	7.9	89° 30'	+7.2	-0.7		3857.1		-280	+775	1,886,531	758,082	
100	1150		92° 11'	u u	9.9	89° 30'	+10.0	+0.1		3857.9		-355	+1094	1,886,456	758,401	
101	1479		92° 02'	u u	9.2	89° 30'	+12.9	+3.7		3861.5		-453	+1408	1,886,358	758,715	
102	1807		91° 20'	u u	5.2	89° 30'	+15.8	+10.6		3868.4		-532	+1727	1,886,279	759,034	
102	2136		91° 22' 07"	u u	10.6	89° 20'	+24.9	+14.3		3872.1	TP	-630	+2041	1,886,181	759,348	
	2136				14.2	89° 14'	+28.6	+14.4			TP					
	638		245° 03' 31"	+15.8°	10.8	91° 20'	+16.7	+27.5	3899.6		BS	+101	+630			
	638				12.7	91° 20'	+14.8	+27.5			BS					
103	323		234° 23'	+15.8°	11.7	92° 10'	-15.0	-26.7		3872.9		-110	-304	1,886,172	759,674	
104	0				5.2	-		-5.2		3894.4	π	0	0	1,886,282	759,978	
105	330		71° 58'	+15.8°	6.1	87° 20'	+15.3	+9.2		3908.8		+13	+330	1,886,295	760,308	
106	660		69° 19'	u u	18.0	87° 40'	+26.9	+8.9		3908.5		+56	+658	1,886,338	760,636	
107	988		68° 39'	u u	8.9	88° 10'	+31.6	+22.7		3922.3		+96	+983	1,886,378	760,961	
108	1287		65° 12' 32"	u u	9.3	88° 20'	+37.4	+28.1		3927.7	TP	+201	+1271	1,886,483	761,249	
108	1287				13.1	88° 10'	+41.2	+28.1			TP					

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO		PAGE				
5-18-83		B. Cotcamp		D. Wrinkle		6834		DW		3		9				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
NEVADA		SMOSHONE MEADOWS-15		NEVADA		CHURCHILL								L. Davis		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
										3927.7						
	1927		276° 29' 50"	+158°	14.1	90° 30'	+16.8	+30.9	3958.6		BS	-731	+1783			
	1927			+	8.4	90° 40'	+22.4	+30.8		BS						
109	1619		278° 25'	+158°	10.8	91° -	-28.3	-39.1		3919.5		+664	-1477	1,886,416	761,555	
110	1307		280° 54'	~	10.2	90° 40'	-15.2	-25.4		3933.2		+587	-1168	1,886,339	761,864	
111	974		278° 24'	~	9.7	90° 50'	-14.2	-23.9		3934.7		+399	-888	1,886,151	762,144	
<del>112</del>	703		279° 31' 03"	~	13.3	91° 30'	-18.4	-31.7		3926.9	TP	+301	-635	1,886,053	762,397	
112	657		279° 16'	~	7.1	92° -	-22.9	-30.0		3928.6		+278	-595	1,886,030	762,437	
113	330		283° 59'	~	10.1	91° -	-5.8	-15.9		3942.7		+164	-286	1,885,916	762,746	
114	0				5.2	-		-5.2		3953.4	X	0	0	1,885,252	763,032	
115	330		106° 44'	+158°	5.6	90° 10'	-1.0	-6.6		3952.0		-177	+278	1,885,575	763,310	Cross country
116	660		107° 55'	~	9.3	89° 30'	+5.8	-3.5		3955.1		-366	+549	1,885,386	763,581	~
117	977		104° 08'	~	7.4	89° 40'	+5.7	-1.7		3956.9		-488	+847	1,885,264	763,879	~
118	1299		100° 13'	~	3.4	89° 40'	+7.6	+4.2		3962.8		-570	+1167	1,885,182	764,199	~
119	1617		96° 29'	~	10.2	89° 30'	+14.1	+3.9		3962.5		-613	+1490	1,885,139	764,528	~
120	1917		92° 14' 23"	~	5.4	89° 30'	+16.7	+11.3		3969.9	TP	-594	+1823	1,885,158	764,855	~
120	1917				11.0	89° 20'	+22.3	+11.3			TP					
	2509		290° 35' 29"	+158°	10.8	90° 30'	+21.9	+32.7	4002.5		BS	-1489	+2020			
	2509			+	15.0	90° 24'	+17.5	+32.5		BS						
121	2230		294° 46'	+158°	11.0	90° 36'	-23.4	-34.4		3968.1		+1450	-1694	1,885,119	765,181	1 <sup>st</sup> STA. BACK ON ROAD

SURVEY NOTES-HIGH RESOLUTION DATA  
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
5-18-83		B. Cotcamp		D. Wrinkle		6834		D.W.		3	10						
AREA		TOPO MAP	STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER								
NEVADA		SHOSHONE MEADOWS-15	NEVADA	CHURCHILL					L. Davis								
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS	
												LAT.	DEP.	Y	X		
									4002.5								
122	1921		297° 51'	+15.8°	9.9	90° 36'	-20.1	-30.0		3972.5		+1326	-1390	1,884,995	765,485		
123	1602		300° 36'	" "	10.8	90° 30'	-14.0	-24.8		3977.7		+1160	-1105	1,884,829	765,770	CROSS COUNTRY	
124	1281		298° 25'	" "	7.1	90° 30'	-11.2	-18.3		3984.2		+893	-918	1,884,562	765,957	" "	
125	964		295° 59'	" "	9.0	90° 30'	-8.4	-16.0		3986.5		+642	-719	1,884,311	766,156	BACK ON ROAD	
126	635		293° 16'	" "	8.0	90° 30'	-5.5	-13.5		3989.0		+400	-493	1,884,069	766,382		
127	330		283° 36'	" "	6.7	90° 30'	-2.9	-9.6		3992.9		+162	-288	1,883,831	766,587		
128	0				5.2	-		-5.2		3997.3	X	0	0	1,883,669	766,875		
129	317		112° 55'	+15.8°	8.1	89° -	+5.5	-2.6		3999.9		-198	+247	1,883,471	767,122		
130	626		102° 06'	" "	10.0	89° -	+10.9	+0.9		4003.4		-293	+553	1,883,326	767,428		
131	951		99° 31'	" "	12.2	89° -	+16.6	+4.4		4006.9		-407	+860	1,883,262	767,735		
132	1278		100° 16'	" "	10.2	89° 10'	+18.6	+8.4		4010.9		-562	+1148	1,883,107	768,023		
133	1607		100° 17'	" "	11.6	89° 10'	+23.4	+11.8		4014.3		-707	+1443	1,882,962	768,318		
134	1926		102° 51'	" "	17.5	89° -	+33.6	+16.1		4018.6		-923	+1690	1,882,746	768,565		
135	2239		104° 34'	" "	12.6	89° 10'	+32.6	+20.0		4022.5		-1132	+1932	1,882,597	768,807		
136	2551		106° 31' 30"	" "	10.8	89° 10'	+37.1	+26.3		4028.8	TP	-1364	+2155	1,882,305	769,030		
136	2551				13.7	89° 06'	+40.1	+26.4			TP						
	1266		290° 23' 20"	+15.8°	13.6	90° 30'	+11.0	+24.6		4053.4	BS	-747	+1022				
	1266			" "	10.0	90° 40'	+14.7	+24.7			BS						
137	947		285° 30'	+15.8°	11.7	90° 40'	-11.0	-22.7		4030.7		+492	-809	1,882,050	769,243		
138	638		277° 08'	" "	11.1	90° 40'	-7.4	-18.5		4034.9		+249	-588	1,881,807	769,464		



HIGH RESOLUTION DATA

Geosource Inc.

INSTRUMENT MAN B. Cotcamp		ROD MAN D. Wrinkle		PARTY NUMBER 6834		NOTES CHECKED BY DW		LINE NO. 3		PAGE 12			
TOPO MAP SHOSHONE MEADOWS - 15		STATE NEV.		COUNTY CHURCHILL		TWP		RANGE		PPM		PARTY MANAGER L. Dquis	
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
							4089.4						
	121° 40' 48"	+15.8°	9.8	89° -	+23.2	+13.4	}	4102.8	TP	-979	+897	1880,576	773,807
			13.7	88° 50'	+27.0	+13.3		TP					
	283° 16' 46"	+15.8°	8.2	90° 30'	+11.4	+19.6	}		BS	-638	+1147		
12			+12.0	90° 20'	+7.6	+19.6		4122.4	BS				
188	281° 00'	+15.8°	9.0	90° 30'	-8.6	-17.6		4104.8		+445	-882	1880,383	774,072
659	279° 27'	"	8.1	90° 30'	-5.8	-13.9		4108.5		+281	-596	1880,219	774,358
330	277° 19'	"	6.3	90° 30'	-2.9	-9.2		4113.2		+130	-304	1880,068	774,650
0			5.2	-		-5.2		4117.2	TP	0	0	1879,938	774,954
8	329	+15.8°	5.1	89° 10'	+4.8	-0.3		4122.1		-222	+243	1880,160	775,197
59	654	"	7.5	89° -	+11.4	+3.9		4126.3		-463	+462	1879,919	775,416
160	982	"	10.1	89° -	+17.1	+7.0		4129.4		-649	+737	1879,733	775,691
161	1312	"	11.0	89° -	+22.9	+11.9		4134.3		-847	+1002	1879,535	775,956
162	1641	"	12.5	89° -	+28.6	+14.1		4138.5		-1067	+1247	1879,315	776,201
TP	1899	"	9.1	89° 10'	+27.6	+18.5	}	4140.9	TP	-1247	+1432	1878,691	776,386
TP	1899	"	14.6	89° -	+33.1	+18.5		TP					
	1970	+15.8°	6.6	90° 50'	+28.7	+35.3	}	4176.1	BS	-1370	+1415		
	1970		+12.2	90° 40'	+22.9	+35.1		35.2	BS				
163	1900	+15.8°	8.1	90° 50'	-27.6	-35.7		4140.4		+1301	-1385	1878,622	776,416
164	1617	"	10.8	90° 40'	-18.8	-29.6		4146.5		+992	-1277	1878,313	776,524
165	1314	"	7.2	90° 40'	-15.3	-22.5		4153.6		+714	-1103	1878,035	776,698

HIGH RESOLUTION DATA

Geosource Inc.

INSTRUMENT MAN B. Cotcamp		ROD MAN D. Winkle		PARTY NUMBER 6834		NOTES CHECKED BY DW		LINE NO. 3		PAGE 13				
TOPO MAP SHOSHONE MEADOWS-15			STATE NEVADA		COUNTY CHURCHILL		TWP		RANGE		PPM		PARTY MANAGER L. O. Davis	
E	PLOT 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
								4176.1						
7		285° 36'	+15.8°	9.8	90° 30'	-8.6	-18.4		4157.7		+514	-842	1,877,835	776,959
27		285° 31'	" "	11.5	90° 20'	-3.8	-15.3		4160.8		+341	-561	1,877,662	777,240
0		285° 49'	" "	9.2	90° 20'	-1.9	-11.1		4165.0		+171	-278	1,877,492	777,523
329				5.2	-		-5.2		4170.9	X	0	0	1,877,321	777,801
654		121° 28'	+15.8°	5.6	89° 20'	+3.8	-1.8		4174.3		-242	+223	1,877,079	778,024
983		114° 17'	" "	6.1	89° 20'	+7.6	+1.5		4177.6		-421	+500	1,876,900	778,301
3		114° 06'	" "	6.1	89° 20'	+11.4	+5.3		4181.4		-631	+754	1,876,690	778,555
174	1297	108° 48'	" "	5.8	89° 20'	+15.1	+9.3		4185.4		-736	+1068	1,876,585	778,869
175	1616	105° 34'	" "	5.7	89° 20'	+18.8	+13.1		4189.2		-841	+1380	1,876,480	779,181
176	1935	102° 48'	+15.8°	12.5	89° -	+33.8	+21.3		4197.4		-926	+1699	1,876,395	779,500
177	2257	100° 57'	" "	7.1	89° -	+39.4	+32.3		4208.4		-1016	+2015	1,876,305	779,816
178	2586	100° 26'	" "	10.2	89° -	+45.1	+34.9		4211.0		-1143	+2320	1,876,178	780,121
TP179	2849	97° 09'	" "	11.8	89° -	+49.7	+37.9		4214.0		-1111	+2623	1,876,210	780,424
TP179	3121	94° 23' 36"	" "	9.2	89° 16'	+45.4	+36.2		4212.3	TP	-1077	+2929	1,876,244	780,730
	2607			14.7	89° 04'	+50.8	+36.1			TP				
	2607	272° 52' 06"	+15.8°	8.6	90° 50'	+37.9	+46.5	4258.8		BS	-834	+2470		
180	2277			14.7	90° 42'	+31.8	+46.5			BS				
181	1949	272° 23'	+15.8°	9.9	90° 50'	-33.1	-43.0		4215.8		+711	-2163	1,876,121	781,037
		271° 21'	" "	10.1	90° 50'	-28.3	-38.4		4220.4		+575	-1862	1,875,985	781,338

HIGH RESOLUTION DATA

Geosource Inc.

INSTRUMENT MAN B. Cotcamp		ROD MAN D. Winkle		PARTY NUMBER 6834		NOTES CHECKED BY D W		LINE NO. 3		PAGE 14			
TOPO MAP SHOSHONE MEADOWS-15		STATE NEVADA		COUNTY Churchill		TWP		RANGE		PPM		PARTY MANAGER L. Davis	
b PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFER- ENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
										NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
							4258.8						
2	271° 40'	+15.8°	9.8	90° 50'	-23.6	-33.4		4225.4		+486	-1545	1875,896	781,655
68	272° 19'	" "	9.2	90° 50'	-18.8	-28.0		4230.8		+402	-1228	1875,812	781,972
640	274° 45'	" "	10.8	90° 50'	-14.1	-24.9		4233.9		+340	-906	1875,750	782,294
332	277° 27'	" "	11.0	90° 50'	-9.3	-20.3		4238.5		+253	-588	1875,663	782,612
0	283° 35'	" "	9.7	90° 50'	-4.8	-14.5		4244.3		+163	-289	1875,573	782,911
			5.2	*		-5.2		4253.6	TP	0	0	1875,410	782,200 on BANK ACROSS STA.
320	94° 25'	+15.8°	6.4	89° 16'	+4.7	-1.7		4257.1		-111	+300	1875,299	783,500
9	645	" "	5.8	89° 10'	+9.4	+3.6		4262.4		-264	+589	1875,146	783,789
190	944	" "	7.0	89° -	+17.0	+10.0		4268.8		-366	+903	1875,044	784,103
191	1303	" "	7.2	89° -	+22.7	+15.5		4274.3		-466	+1217	1874,944	784,417
192	1630	" "	7.2	89° -	+28.4	+21.4		4280.2		-623	+1506	1874,787	784,706
193	1954	" "	11.5	88° 52'	+38.6	+27.1		4285.9	TP	-804	+1781	1874,606	784,981
193	1954		15.0	88° 46'	+42.1	+27.1			TP				
1963	280° 04' 50"	+15.8°	9.3	91° -	+34.3	+43.6		4329.5	BS	-857	+1766		
1963			9.2	269° -	+34.3	+43.5			BS				
194	1639	+15.8°	9.4	91° -	-28.6	-38.0		4291.5		+667	-1497	1874,416	785,250
195	1312	" "	8.4	91° -	-22.9	-31.3		4298.2		+497	-1214	1874,246	785,533
196	984	" "	7.2	91° -	-17.2	-24.4		4305.1		+345	-922	1874,094	785,825
197	660	" "	5.8	91° -	-11.5	-17.3		4312.2		+194	-631	1873,943	786,116
198	330	" "	5.0	91° -	-5.8	-10.8		4318.7		+97	-315	1873,846	786,432

HIGH RESOLUTION DATA

Geosource Inc.

INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
B. Cotcamp		D. Wrinkle		6834		QW		3		15			
TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
SHOSHONE Meadows - 15		NEVADA		CHURCHILL								L. Davis	
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
							4329.5						
			5.2	-		5.2		4324.3	TP	0	0	1873,749 786,747	
	89° 28'	+15.8°	5.5	88° 50'	+6.7	+1.2		4330.7		-87	+318	1873,662 787,065	
0	88° 53'	" "	6.0	88° 50'	+13.4	+7.4		4336.9		-167	+638	1873,582 787,385	
190	88° 59'	" "	6.4	88° 50'	+20.2	+13.8		4343.3		-253	+957	1873,496 787,704	
1316	87° 09'	" "	5.2	88° 50'	+26.8	+21.6		4351.1		-295	+1283	1873,454 788,030	
1471	87° 06' 04"	" "	6.3	88° 50'	+30.0	+23.7		4353.2	TP	-328	+1434	1873,421 788,181	
1471			10.5	88° 40'	+34.2	+23.7			TP				
2066	290° 15' 57"	+15.8°	7.2	91° -	+36.1	+43.3	4396.5		BS	-1216	+1670		
2066			13.2	90° 50'	+30.0	+43.2			BS				
204	1887	289° 59'	+15.8°	9.1	91° -	-32.9	-42.0	4354.5		+1103	-1531	1873,308 788,320	
205	1574	286° 34'	" "	8.9	91° -	-22.5	-36.4	4360.1		+843	-1329	1873,048 788,522	
206	1248	287° 23'	" "	8.9	91° -	-21.8	-30.7	4365.8		+683	-1044	1872,888 788,807	
207	940	293° 42'	" "	10.9	90° 50'	-13.7	-24.6	4371.9		+598	-725	1872,803 789,126	
208	628	286° 54'	" "	8.9	90° 50'	-9.1	-18.0	4378.5		+339	-528	1872,544 789,323	
209	330	270° 54'	" "	6.8	90° 50'	-4.8	-11.6	4384.9		+95	-316	1872,300 789,535	
210	0			5.2	-		-5.2	4391.3	TP	0	0	1872,205 789,851	
211	330	93° 06'	+15.8°	7.7	88° 40'	+7.7	±0.0	4396.5		-107	+312	1872,098 790,163	
212	645	82° 44'	" "	8.0	88° 40'	+15.0	+7.0	4403.5		-96	+638	1872,109 790,489	
213	967	78° 19'	" "	9.0	88° 40'	+22.5	+13.5	4410.0		-69	+965	1872,136 790,816	

HIGH RESOLUTION DATA

Geosource Inc.

INSTRUMENT MAN <i>B. Cotcamp</i>	ROD MAN <i>D. Wrinkle</i>	PARTY NUMBER <i>6834</i>	NOTES CHECKED BY <i>DW</i>	LINE NO. <i>3</i>	PAGE <i>16</i>
TOPO MAP <i>SHOSHONE MEADOWS - 15'</i>	STATE <i>NEVADA</i>	COUNTY <i>CHURCHILL</i>	TWP	RANGE <i>DW</i>	PPM
			PARTY MANAGER <i>L. Davis</i>		

PEACE	PLOT 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			
								4396.5									
		86° 03'	+15.8°	9.2	88° 40'	+29.1	+19.9		4416.4		-257	+1223	1871948	791074			
		92° 35 59"	~	7.8	88° 40'	+32.7	+24.9		4421.4	TP	-444	+1334	1871761	791185			
16				11.8	88° 30'	+36.8	+25.0			TP							
30		331° 44 44"	+15.8°	8.0	91° -	+15.0	+23.0	4444.4		BS	-840	+185					
360				10.4	90° 50'	+12.5	+22.9			BS							
144		332° 14'	+15.8°	8.6	91° -	-13.0	-21.6		4422.8		+728	-154	1871649	791216			
424		339° 17'	~	7.0	91° -	-7.4	-14.4		4430.0		+422	-36	1871343	791334			
97		327° 28'	~	6.1	91° -	-1.7	-7.8		4436.6		+93	-28	1871014	791742			
0				5.2	-	-	-5.2		4439.2	X	0	0	1870921	791370			
18		22° 04 10"	+15.8°	5.5	91° -	-0.3	-5.8		4438.6	X	+14	+11	1870935	791381			-1870935 X-791420 Y-ROAD SOUTHEAST 4457'
233		124° 45'	~	5.3	89° -	+4.1	-1.2		4443.2		-180	+148	1870741	791518			
562		121° 56'	~	9.2	88° 30'	+14.7	+5.5		4449.9		-416	+378	1870505	791748			
739		128° 46 47"	+15.6°	9.7	88° 30'	+19.3	+9.6		4454.0	TP	-601	+430	1870320	791800			
739				7.6	88° 40'	+17.2	+9.6			TP							
1675		316° 21 31"	+15.6°	10.7	91° -	+29.2	+39.9			BS	-1388	+937					
1675				14.6	90° 52'	+25.3	+39.9	4493.9		BS							
120	1571	307° 45'	~	11.0	91° -	-27.4	-38.4		4455.5		+1260	-938	1870192	791799			
221	1258	303° 52'	~	9.8	91° -	-22.0	-31.8		4462.1		+956	-818	1869888	791919			
222	972	299° 13'	~	8.1	91° -	-17.0	-25.1		4468.8		+685	-690	1869617	792047			
223	652	302° 02'	~	7.2	91° -	-11.4	-18.6		4475.3		+482	-439	1869414	792298			

HIGH RESOLUTION DATA

Geosource Inc.

INSTRUMENT MAN B. Cotcamp		ROD MAN D. Wrinkle		PARTY NUMBER 6834		NOTES CHECKED BY		LINE NO. 3		PAGE 17			
TOPO MAP SNOWSHOE MEADOWS - 15		STATE NEVADA		COUNTY Churchill		TWP		RANGE		PPM		PARTY MANAGER L. Davis	
E	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.	
								4493.9					
		299° 50'	+15.6°	6.9	91° -	-5.7	-12.6		4481.3		+233	-229	1869,165 792,508
				5.2	-		-5.2		4488.7	TP	0	0	1868,932 792,737
22		96° 17'	+15.6°	7.8	88° 40'	+7.7	-0.1		4493.8		-124	+308	1868,808 793,045
660		99° 05'	""	9.2	88° 40'	+15.4	+6.2		4500.1		-276	+600	1868,656 793,337
987		96° 32'	""	8.0	88° 50'	+20.1	+12.1		4506.0		-372	+914	1868,560 793,651
1307		93° 23'	""	8.2	88° 50'	+26.6	+18.4		4512.3		-425	+1236	1868,507 793,973
1632		95° 17'	""	8.7	88° 50'	+33.2	+24.5		4518.4		-582	+1525	1868,350 794,262
1	1960	96° 30'	""	9.2	88° 50'	+39.9	+30.7		4524.6		-737	+1816	1868,195 794,553
52	2289	96° 47'	""	10.2	88° 44'	+50.6	+40.4		4534.3		-872	+2117	1868,060 794,854
233	2616	96° 47' 21"	""	10.1	88° 44'	+57.8	+47.7			TP	-996	+2418	1867,936 795,155
233	2616			13.1	88° 40'	+60.9	+47.8		4541.7	TP			
	862	266° 19' 54"	+15.6°	11.0	90° 40'	+10.0	+21.0			BS	-178	+843	
	862			13.5	90° 30'	+7.5	+21.0		4562.7	BS			
234	535	268° 24'	+15.6°	7.8	90° 40'	-6.2	-14.0		4548.7		+129	-519	1867,887 795,479 cross country
235	205	266° 45'	""	6.6	90° 30'	-1.8	-8.4		4554.3		+44	-200	1867,802 795,798 back on road
TP	0		""	5.2	-		-5.2		4557.5	TP	0	0	1867,758 795,998 starting into
236	121	52° 06'	""	5.7	88° 30'	+3.2	-2.5		4560.2		+46	+112	1867,804 796,110 canyon
237	441	33° 47'	""	8.1	88° 30'	+11.5	+3.4		4566.1		+287	+335	1868,045 796,333
TP	594	35° 46' 17"	""	7.9	88° 30'	+15.5	+7.6			TP	+371	+464	1868,129 796,462
TP	594			9.6	88° 20'	+17.3	+7.7		4570.4	TP			

HIGH RESOLUTION DATA

Geosource Inc.

INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
B. Cotcamp		D. Wrinkle		6834		DW		3		18			
TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
SMOSHONE MEADOWS-15'		NEVADA		Churchill								L. Davis	
PLOT 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
								4570.4					
	266° 50' 18"	+15.6°	7.5	91° 40'	+17.6	+25.1	4595.4		BS	-130	+591		
			+9.1	91° 30'	+15.8	+24.9	4550.3		BS				
7	261° 53'	+15.6°	27.0	89° 20'	+5.1	-21.9		4573.5		+57	-433	1,816,056 796.620	
41	280° 58'	"	7.0	94° -	-8.4	-15.4		4580.0		+54	-108	1,816,053 796.945	
0			5.2	-		-5.2		4590.2	X	0	0	1,817,999 797.053	
218	62° 14'	+15.6°	8.7	-		-8.7		4586.7		+46	+213	1,818,045 797.266	
528	52° 51'	"	5.8	89° 30'	+4.6	-1.2		4594.2		+194	+491	1,818,193 797.544	
605	63° 51' 52"	"	11.0	88° 30'	+15.8	+4.8		4600.2	TP	+111	+595	1,818,110 797.648	
605			12.8	88° 20'	+17.6	+4.8			TP				
317	251° 00' 20"	+15.6°	8.6	-		+8.6			BS	+19	+316		
317			+10.2	TH	-1.6	+8.6	4608.8		BS		-1		
242	132		231° 02'	+15.6°	7.8	-		4601.0		-52	-121	1,818,077 797.842	
X	0				5.2	-		4603.6	X	0	0	1,818,129 797.963	
243	193		352° 50'	+15.6°	7.1	88° 20'	+5.6	-1.5		+191	+28	1,818,320 797.991	
244	491		02° 00' 42"	"	11.3	87° 50'	+18.6	+7.3		+468	+148	1,818,597 798.110	
244	491				12.8	87° 40'	+20.0	+7.2			-1		
	1067		222° 40' 04"	+15.4°	6.6	93° -	+55.8	+62.4		BS	+564	+904	
	1067				+9.7	92° 50'	+52.7	+62.4	4678.5	BS		-1	
245	749		227° 32'	+15.4°	6.9	94° -	-52.1	-59.0			-341	-667	1,818,820 798.346

NOTES-HIGH RESOLUTION DATA

Geosource Inc.

INSTRUMENT MAN B. Cotcamp	ROD MAN D. Wrinkle	PARTY NUMBER 6834	NOTES CHECKED BY DW	LINE NO. 3	PAGE 19
TOPO MAP S405406 MEADOWS-15	STATE NEVADA	COUNTY CHURCHILL	TWP	RANGE	PPM
			PARTY MANAGER L. Davis		

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.	
								4678.5					
46	620	231° 14' 56"	+15.4°	11.6	94° -	-43.2	-54.8		4623.7	BS	-245	-568	1868,916 798,445
247	434	235° 27'	~	10.9	94° 40'	-35.2	-46.1		4632.4		-142	-410	1869,019 798,603
π	125	255° 17'	~	8.3	91° 40'	-3.6	-11.9		4666.6		+1	-125	1869,162 798,888
248	0			5.2	-		-5.2		4673.3	π	0	0	1869,161 799,013
249	202	83° 40'	+15.4°	7.1	87° 20'	+9.4	+2.3		4680.8		-32	+199	1869,129 799,212
250	531	82° 25'	~	8.2	87° 20'	+24.7	+16.5		4695.0		-72	+526	1869,089 799,539
251	860	80° 49'	~	11.4	87° 20'	+40.0	+28.6		4707.1		-93	+855	1869,068 799,868
251	1190	80° 16' 55"	~	12.6	87° 30'	+51.9	+39.3		4717.8	TP	-118	+1183	1869,043 800,195
	631			9.2	87° 40'	+48.4	+39.2			TP		-1	
	631	267° 54' 27"	+15.4°	7.6	94° -	+44.0	+53.6			BS	-145	+613	
	631			7.8	94° 10'	+45.9	+53.7	4771.5		BS		-1	
252	317	255° 37'	+15.4°	10.9	94° 30'	-24.8	-35.7		4735.8		+6	-317	1868,904 800,490
253	0			5.2	-		-5.2		4766.3	π	0	0	1868,898 800,807
254	326	82° 55'	+15.4°	7.9	87° 20'	+15.2	+7.3		4778.8		-47	+323	1868,851 801,130
255	641	92° 53' 23"	~	8.2	87° 20'	+29.8	+21.6		4793.1	TP	-201	+608	1868,697 801,414
255	641			6.4	87° 30'	+28.0	+21.6			TP		-1	
	1236	270° 24' 28"	+15.4°	8.4	92° 40'	+57.5	+65.9			BS	-336	+1188	
	1236			12.0	92° 30'	+53.9	+65.9	4859.0		BS		-1	
256	926	264° 21'	+15.4°	5.9	93° 10'	-51.1	-57.0		4802.0		+157	-913	1868,518 801,688
257	623	254° 12'	~	8.3	93° 10'	-34.4	-42.7		4816.3		-4	-623	1868,357 801,978

HIGH RESOLUTION DATA

Geosource Inc.

INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
B. Cotcamp		D. Wrinkle		6834		DW		3		20				
TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
SMOSHORE meadows-15		NEVADA		Churchill								L. Davis		
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
							4859.0							
	236° 14'	+15.4°	7.0	92° 40'	-15.3	-22.3		4836.7		-104	-312	1868,257 802,289		
			5.2	-		-5.2		4853.8	T	0	0	1868,311 802,601		
30	57° 15'	+15.4°	8.7	88° 10'	+10.6	+1.9		4860.9		+98	+315	1868,459 802,916		
33	71° 41'	"	7.5	87° 40'	+25.8	+18.3		4877.3		+32	+632	1868,393 803,233		
959	74° 57' 40"	"	9.2	88° -	+33.5	+24.3			TP	-6	+958	1868,355 803,558		
959			11.9	87° 50'	+36.3	+24.4		4883.4	TP		-1			
1899	254° 39' 30"	+15.4°	9.8	91° 40'	+55.2	+65.0			BS	-2	+1898			
1899			14.2	91° 32'	+50.8	+65.0	4948.4		BS		-1			
3	1591		258° 15'	+15.4°	12.1	91° 50'	-50.9	-63.0		+101	-1588	1868,454 803,867	SMOSHORE meadows ↑	
264	1292		263° 30'	"	9.7	92° -	-45.1	-54.8		+200	-1276	1868,553 804,179	GILBERT CREEK N.W. 1/4 ↓	
265	964		263° 13'	"	10.9	92° -	-33.6	-44.5		+144	-953	1868,497 804,502		
266	656		255° 11'	"	9.1	92° 10'	-24.8	-33.9		+7	-656	1868,360 804,799		
267	330		254° 40'	"	9.2	91° 30'	-8.6	-17.8		±0	-330	1868,353 805,125		
268	0				5.2	-		-5.2		T	0	0	1868,353 805,455	
268	268		88° 38' 54"	+15.4°	5.2	87° 10'	+13.2	+8.0				4956.4		
269	319		94° 12'	"	5.7	87° -	+16.7	+11.0		-107	+301	1868,246 805,756		
270	642		101° 52'	"	6.9	87° 10'	+31.7	+24.8		-294	+571	1868,059 806,026		
271	963		98° 02'	"	10.0	87° -	+50.3	+40.3		-383	+884	1867,970 806,339		
272	1292		96° 59'	"	9.2	87° -	+62.5	+58.3		-492	+1195	1867,861 806,650		

HIGH RESOLUTION DATA

Geosource Inc.

INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
B. Cotcamp		D. Wrinkle		6834		SW		3		21				
TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
Gilbert Creek S.W.-7 1/2		NEVADA		Churchill								L. Davis		
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	X
							4948.4							
	95° 34'	+15.4°	8.0	87°	+84.6	+76.6		5025.0		-579	+1512	1867.774	806.967	
	96° 37' 10"	" "	8.4	87°	+101.8	+93.4			TP	-728	+1801	1867.425	807.255	
			13.8	86° 50'	+107.4	+93.6		5042.0	TP		-1			
	293° 36' 02"	+15.4°	9.2	93° 20'	+52.5	+61.7			BS	-567	+701			
3			11.9	93° 10'	+49.9	+61.8		5103.8	BS		-1			
14	293° 11'	+15.4°	8.7	94° 10'	-41.6	-50.3		5053.5		+358	-449	1867.4116	807.507	y - 1867.405 x - 807.565
186	293° 40' 11"	" "	11.1	94° 30'	-38.0	-49.1		5054.7	TP	+305	-376	1867.363	807.579	T-ROAD SOUTH
246	288° 15'	" "	11.1	95° 20'	-22.8	-33.9		5069.9		+136	-205	1867.194	807.750	
136	290° 42' 52"	" "	6.1	95° 20'	-12.6	-18.7		5085.1	TP	+80	-109	1867.138	807.816	1867.125 x - 807.885
0			5.2	-	-	-5.2		5098.6	TP	0	0	1867.058	807.955	T-ROAD SOUTH
84	104° 23'	+15.4°	5.8	91° 40'	-2.4	-8.2		5095.6		-42	+73	1867.016	808.028	
8	411		7.6	91° 10'	-8.4	-16.0		5087.8		-174	+373	1866.884	808.328	
IP	497		9.5	90° 40'	-5.8	-15.3		5088.5	TP	-237	+437	1866.821	808.391	
TP	497		11.0	90° 30'	-4.3	-15.3			TP		-1			
	431		7.3	92°	+15.0	+22.3			BS	-421	+92			
	431		6.0	92° 10'	+16.3	+22.3		5110.8	BS		-1			
279	200		8.9	92°	-7.0	-15.9		5094.9		+195	-46	1866.595	808.436	
TP	0		5.2	-	-	-5.2		5105.6	TP	0	0	1866.400	808.482	
44	84		7.3	87° 30'	+3.7	-3.6		5107.2		-58	+60	1866.342	808.542	
280	127		5.9	87° 30'	+5.5	-0.4		5110.4		-87	+92	1866.313	808.574	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE							
5.20.83		B. Cotcamp		D. Winkle		6834		Dew		3	22							
AREA		TOPO MAP	STATE	COUNTY	TWP	RANGE	PPM	PARTY MANAGER										
NEVADA		Gilbert Creek S.W.-7 1/2	NEVADA	Churchill				L. Davis										
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS
												LAT.	DEP.	Y	X			
281	451		108° 07' 34"	+15.4°	6.0	87° 30'	+19.7	+13.7	5110.8	5124.5	TP	-248	+376	1864,152	808,857			
281	451				7.3	87° 20'	+21.0	+13.7			TP		-1					
	978		290° 48' 02"	+15.4°	13.1	92° 10'	+37.0	+50.1	5174.6		BS	-577	+789					
	978				+10.2	92° 20'	+39.8	+50.0			BS		-1					
282	651		289° 19'	+15.4°	9.2	92° 20'	-26.5	-35.7		5138.9		+371	-535	1865,946	809,110			
283	330		285° 43'	"	9.4	92° 20'	-13.4	-22.8		5151.8	4h	+171	-283	1865,746	809,362			
284	0				5.2	-		-5.2		5169.4	X	0	0	1865,525	809,645			
285	330		102° 12'	+15.4°	8.2	87°	+17.3	+9.1		5183.7		-153	+292	1865,422	809,937			
286	659		101° 36'	"	7.1	87°	+34.4	+22.3		5201.9		-299	+587	1865,276	810,232			
287	981		106° 45' 08"	"	8.8	86° 30'	+59.9	+51.1		5225.7	TP	-521	+829	1865,054	810,473			
287	981				11.6	86° 20'	+62.7	+51.1			TP		-1					
	1134		305° 22' 30"	+15.4°	7.6	93° 30'	+69.2	+76.8	5302.5		BS	-877	+716					
	1134				+10.8	93° 20'	+65.9	+76.7			BS		-1					
288	805		304° 59'	+15.4°	6.0	93° 20'	-46.7	-52.7		5249.8		+620	-513	1864,797	810,675			
289	475		305° 07'	"	7.4	93°	-24.8	-32.2		5270.3		+367	-302	1864,544	810,886			
290	146		309° 30'	"	7.2	93°	-7.6	-14.8		5287.7		+119	-84	1864,296	811,104			
X	0				5.2	-		-5.2		5297.3	X	0	0	1864,177	811,188			
291	185		129° 25'	+15.4°	5.2	88° 30'	+4.8	-0.4		5302.1		-151	+107	1864,026	811,295			
292	514		130° 53'	"	7.6	88° 30'	+13.5	+5.9		5308.4		-428	+285	1863,749	811,473			

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
5.20.83		B. Cotcamp		D. Wrinkle		6834		Dw		3	23				
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
NEVADA		Gilbert Creek SW - 7 1/2		NEVADA		Churchill					L. O. Davis				
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 X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									5302.5						
293	833		127° 24' 56"	+15.4°	11.6	88° 20'	+24.2	+12.6		5315.1	TP	-664	+503	1,863,513	811,690
293	833				14.1	88° 10'	+26.6	+12.5			TP		-1		
	417		255° 16' 14"	+15.4°	5.5	94° -	+29.1	+34.6			BS	-5	+416		
	417				+4.3	94° 10'	+30.3	+34.6		5349.7	BS		-1		
294	103		250° 01'	+15.4°	6.0	94° 10'	-7.5	-13.5		5336.2		-8	-103	1,863,500	812,102
	0				5.2	-		-5.2		5344.5	X	0	0	1,863,508	812,105
295	221		87° 52'	+15.4°	5.8	86° 40'	+12.8	+7.0		5356.7		-51	+215	1,863,457	812,320
296	544		98° 37' 58"	"	4.2	86° 40'	+31.6	+27.4		5377.1	TP	-221	+496	1,863,287	812,600
296	544				5.8	86° 30'	+33.2	+27.4			TP		-1		
	983		264° 33' 10"	+15.4°	7.2	94° -	+68.6	+75.8			BS	-169	+966		
	983				+4.4	94° 10'	+71.4	+75.8		5452.9	BS		-1		
297	656		263° 01'	+15.4°	10.9	94° 10'	-47.5	-58.4		5394.5		+96	-649	1,863,214	812,916
298	328		263° 37'	"	10.1	94° 10'	-23.8	-33.9		5419.0		+51	-324	1,863,169	813,241
299	0				6.2	-		-5.2		5447.7	X	0	0	1,863,118	813,565
300	321		126° 14'	+15.4°	11.8	80° 30'	+53.0	+41.2		5494.1		-252	+199	1,862,866	813,764
301	607		147° 45'	"	7.4	83° -	+74	+66.6		5519.5		-581	+176	1,862,537	813,741
TP	651		147° 39' 44"	"	11.0	83° -	+79.3	+68.3			TP	-618	+188	1,862,500	813,752
TP	651				9.1	83° 10'	+77.5	+68.4		5521.3	TP		-1		
	615		335° 04' 43"	+15.4°	11.6	91° 30'	+16.1	+27.7			BS	-606	+102		
	615				+9.9	91° 40'	+17.9	+27.8		5549.1	BS		-1		

HIGH RESOLUTION DATA

Geosource Inc.

INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
B. Cotcamp		D. Winkle		6834		Jew		3		24			
TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
GILBERT CREEK S.W.-74		NEVADA		CHURCHILL/LANDER								L. Davis	
E	PLOT 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.	
								5549.1					
		336° 50'	+15.4°	11.6	91° 10'	-6.7	-18.3		5530.8		+327	-45	1,862,221 813.808
				5.2	-		-5.2		5543.9	X	0	0	1,861,894 813.853 ↑
30		149° 27'	+15.4°	7.0	88° 20'	+9.6	-2.6		5546.5		-319	+86	1,861,575 813.939 CHURCHILL Co.
629		150° 48' 48"	"	4.9	88° 20'	+18.3	+13.4		5562.5	TP	-611	+150	1,861,283 814,003 y-1861,310 x-814,000 County Line
659		151° 13' 57"	"	7.7	88° 20'	+19.2	+11.5		5560.6	TP	-641	+152	1,861,253 814,004 LANDER Co.
659				5.8	88° 30'	+17.3	+11.5			TP		-1	
985		322° 56' 05"	+15.4°	5.0	86° -	-68.7	-63.7	5496.9		BS	-913	+363	
985				2.1	86° 10'	-65.9	-63.8			BS		-1	
06	660	320° 29'	+15.4°	9.1	86° 10'	+44.0	+34.9		5531.8		+602	-270	1,860,942 814,096
367	330	321° 41'	"	8.1	86° 30'	+20.1	+12.0		5508.9		+304	-129	1,860,644 814,237
368	0			5.2	-		-5.2		5491.7	X	0	0	1,860,340 814,366
369	330	132° 26'	+15.4°	6.4	93° 30'	-20.1	-26.5		5470.4		-279	+176	1,860,061 814,542
310	659	129° 42'	"	8.2	93° 16'	-36.4	-44.6		5452.3		-540	+377	1,859,800 814,743
311	989	129° 31'	"	7.2	93° -	-51.7	-58.9		5438.0		-809	+568	1,859,531 814,934
312	1318	130° 01'	"	4.0	93° -	-68.9	-72.9		5424.0		-1085	+748	1,859,255 815,114 y-1,859,200 x-815,190
1k	1417	129° 44' 16"	"	6.2	92° 50'	-70.0	-76.2		5420.7	TP	-1161	+809	1,859,179 815,175 y-ROAD SOUTHWEST 54240
313	1645	128° 50' 53"	"	6.6	92° 40'	-76.5	-83.1		5413.8	TP	-1334	+960	1,859,006 815,325
313	1645			11.3	92° 30'	-71.8	-83.1			TP		-1	

HIGH RESOLUTION DATA

Geosource Inc.

INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
B. Cotcamp		D. Wrinkle		6834		JW		3	25			
TOPO MAP		STATE		COUNTY		TWP		RANGE	PPM	PARTY MANAGER		
Gilbert Creek S.W. 7 1/2		NEVADA		LANDER						L. Davis		
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.	
								5413.8				
	282° 38' 68"	+15.4°	9.0	87° 30'	-28.5	-19.5	5394.3		BS	-307	+577	
		+10.8		87° 20'	-30.4	-19.6			BS			
0	279° 26'	+15.4°	6.9	87° 10'	+16.3	+9.4		5403.7		+139	-299	1858838 815.602
0			5.2	-		-5.2		5389.1	π	0	0	1858699 815.901
333	139° 30'	+15.4°	7.0	90° 30'	-2.9	-9.9		5384.4		-302	+141	1858397 816.042
519	143° 45' 12"	~	8.0	90° 30'	-4.5	-12.5	5381.8		TP	-485	+185	1858214 816.085
519			9.5	90° 20'	-3.0	-12.5			TP			
792	327° 47' 19"	+15.4°	7.8	88° -	-27.6	-19.8	5362.0		BS	-758	+229	
792		+7.7		272° -	-27.6	-19.9			BS			
317	659	+15.4°	11.0	88° 30'	+17.3	+6.3		5368.3		+620	-224	1858026 816.089
318	330	~	6.2	88° 30'	+8.6	+2.4		5364.4		+307	-121	1857763 816.192
319	0		5.2	-		-5.2		5356.8	π	0	0	1857456 816.313
320	326	+15.4°	7.8	91° 30'	-8.5	-16.3		5345.7		-279	+169	1857127 816.482
321	617	~	9.2	91° -	-10.8	-20.0	5342.1		TP	-409	+462	1857047 816.774
321	617		9.1	269° -	-10.8	-19.9			TP			
	1939	+15.4°	11.3	88° -	-67.7	-56.4	5285.7		BS	-691	+1810	
	1939	+5.6		88° 10'	-62.0	-56.4			BS			
322	1632	+15.4°	8.5	88° 20'	+47.4	+38.9		5324.6		+682	-1483	1857038 817.100
323	1316	~	9.7	88° 30'	+34.4	+24.7		5310.4		+551	-1195	1856907 817.380

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	5.23.83	INSTRUMENT MAN	B. GtCamp	ROD MAN	D. Wrinkle	PARTY NUMBER	6834	NOTE CHECKED BY	DW	LINE NO.	3	PAGE	26	
AREA	NEVADA	TOPO MAP	Gilbert Creek S.W.-7 1/2	STATE	NEVADA	COUNTY	LANDER	TWP		RANGE		PPM	PARTY MANAGER	L. Davis

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.	
									5285.7					
324	990		277° 32'	+15.4°	8.0	88° 30'	+25.9	+17.9		5303.6		+386	-912	1,856,212 817,671
325	660		277° 25'	" "	8.9	88° 30'	+17.3	+8.4		5294.1		+256	-608	1,856,612 817,975
326	330		278° 08'	" "	5.6	88° 30'	+8.6	+3.0		5288.7		+132	-303	1,856,488 818,280
327	0				5.2	-		-5.2		5280.5	T	0	0	1,856,356 818,583
328	330		97° 07'	+15.4°	6.3	91° 40'	-9.6	-15.9		5269.8		-126	+305	1,856,230 818,888
329	660		96° 51'	" "	7.1	91° 40'	-19.2	-26.3		5259.4		-250	+611	1,856,106 819,194
330	990		97° 56'	" "	7.2	91° 40'	-28.8	-36.0		5249.7		-392	+909	1,855,964 819,492
331	1318		96° 50'	" "	5.8	91° 40'	-38.3	-44.1		5241.6		-499	+1220	1,855,857 819,803
332	1643		94° 38'	" "	7.9	91° 30'	-43.0	-50.9		5234.8		-563	+1544	1,855,293 820,127
333	1970		93° 11' 27"	+15.3	9.0	91° 20'	-45.8	-54.8			TP	-625	+1868	1,855,732 820,450
333	1970				8.8	260° 40'	-45.8	-54.6	54.7	5231.0	TP	"	"	
	2635		277° 07' 09"	+15.3	10.6	89° 30'	-23.0	-12.4			BS	-1005	+2436	
	2635				15.2	89° 24'	-27.6	-12.4	5218.6		BS	"	"	
334	2307		278° 08'	+15.3	11.8	89° 30'	+20.1	+8.3		5226.9		+917	-2117	1,855,645 820,768
335	1980		278° 54'	" "	8.4	89° 40'	+11.5	+3.1		5221.7		+812	-1806	1,855,540 821,079
336	1650		279° 24'	" "	10.3	89° 40'	+9.6	-0.7		5217.9		+689	-1499	1,855,417 821,386
337	1320		" "	" "	11.1	89° 40'	+7.7	-3.4		5215.2		+552	-1199	1,855,280 821,686
338	990		279° 09'	" "	8.7	89° 50'	+2.9	-5.8		5212.8		+410	-901	1,855,138 821,984
339	660		279° 39'	" "	7.8	89° 50'	+1.9	-5.9		5212.7		+278	-598	1,855,006 822,287

SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
5.23.83		B. Cotcamp		D. Wrinkle		6834		DW		3	27				
AREA		TQPO MAP	STATE	COUNTY	TWP	RANGE	PPM	PARTY MANAGER							
NEVADA		G. L. Bert Creek S.W.-7 1/2	NEVADA	LANDER				L. Oquis							
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 X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									5218.6						
340	330		279° 39'	+15.3	6.8	89° 50'	+1.0	-5.8		5212.8		+139	-299	1,854,817	822,586
341	0				5.2	-		-5.2		5213.4	TP	0	0	1,854,728	822,885
342	330		99° 32'	+15.3	5.6	89° 46'	+1.9	-3.7		5214.9		-139	+299	1,854,589	823,184
343	660		99° 40'	"	5.7	89° 40'	+3.8	-1.9		5216.7		-279	+598	1,854,449	823,483
344	990		99° 18'	"	6.6	89° 40'	+5.8	-0.8		5217.8		-412	+900	1,854,316	823,785
345	1320		99° 14'	"	7.2	89° 40'	+7.7	+0.5		5219.1		-548	+1201	1,854,180	824,086
346	1650		99° 02'	"	7.8	89° 40'	+9.6	+1.8		5220.4		-680	+1503	1,854,048	824,388
347	1980		98° 49'	"	8.1	89° 40'	+11.5	+3.4		5222.0		-809	+1807	1,853,919	824,692
348	2310		98° 53'	"	8.2	89° 40'	+13.4	+5.2		5223.8		-946	+2107	1,853,782	824,992
349	2640		"	"	8.9	89° 40'	+15.4	+6.5		5225.1		-1082	+2408	1,853,646	825,293
350	2970		98° 42'	"	9.1	89° 40'	+17.3	+8.2		5226.8		-1208	+2713	1,853,520	825,598
351	3299		98° 46' 56"	"	9.7	89° 30'	+28.8	+19.1			TP	-1346	+3012	1,853,383	825,896
351	3299				9.4	270° 30'	+28.8	+19.4	+17.3	5237.9	TP	"	"		
	3626		278° 27' 32"	+15.3	14.7	-		+14.7	+14.3	5252.3	BS	-1461	+3319		
	3626				14.0	270°		+14.0	+14.3		BS	"	"		
352	3297		278° 00'	+15.3	8.8	90° 04'	-3.8	-12.6		5239.7		+1304	-3028	1,853,227	826,186
353	2969		277° 20'	"	10.0	-		-10.0		5242.3		+1143	-2740	1,853,066	826,474
#	2668		276° 46' 29"	"	10.8	-		-10.8		5241.5	#	+1003	-2472	1,852,926	826,742
354	2641		276° 36'	"	11.3	-		-11.3		5241.0		+985	-2450	1,852,908	826,764

y=1,852,960 x=826,720  
# TP 4 way

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	5-23-83	INSTRUMENT MAN	B. Cotcamp	ROD MAN	D. Wrinkle	PARTY NUMBER	6834	NOTES CHECKED BY	DW	LINE NO.	3	PAGE	28
AREA	NEVADA	TOPO MAP	Gilbert Creek S.W. 7 1/2	STATE	NEVADA	COUNTY	LANDER	TWP	RANGE	PPM	PARTY MANAGER	L. Davis	

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									5252.3					
355	2310		276° 39'	+15.3	9.0	90° 06'	-4.0	-13.0		5239.3		+863	-2143	1,852,786 827,071
356	1980		276° 44'	"	10.2	90° 06'	-3.5	-13.7		5238.6		+743	-1835	1,852,666 827,379
357	1650		276° 39'	"	8.9	90° 06'	-2.9	-11.8		5240.5		+617	-1530	1,852,540 827,684
358	1320		276° 36'	"	7.9	90° 06'	-2.3	-10.2		5242.1		+492	-1225	1,852,415 827,989
359	990		277° 15'	"	8.1	90° 06'	-1.7	-9.8		5242.5		+380	-914	1,852,303 828,300
360	660		277° 21'	"	7.4	90° 06'	-1.2	-8.6		5243.7		+255	-609	1,852,178 828,605
361	330		277° 41'	"	6.7	90° 06'	-0.6	-7.3		5245.0		+129	-304	1,852,052 828,910
362	0				5.2	-		-5.2		5247.1	TP	0	0	1,851,923 829,214
363	330		97° 29'	+15.3	7.1	89° 40'	+1.9	-5.2		5247.1		-128	+304	1,851,795 829,518
364	660		" "	"	8.0	89° 40'	+3.8	-4.2		5248.1		-256	+609	1,851,667 829,823
365	990		" "	"	8.8	89° 40'	+5.8	-3.0		5249.3		-383	+913	1,851,540 830,127
366	1320		" "	"	10.4	89° 40'	+7.7	-2.7		5249.6		-511	+1217	1,851,412 830,431
367	1650		97° 29'	+15.3	11.0	89° 40'	+9.6	-1.4		5250.9		-639	+1521	1,851,284 830,735
368	1980		" "	"	5.4	89° 50'	+5.8	+0.4		5252.9		-767	+1826	1,851,156 831,040
369	2310		" "	"	11.0	89° 40'	+13.4	+2.4		5254.7		-895	+2130	1,851,028 831,344
370	2640		" "	"	12.0	89° 40'	+15.4	+3.4		5255.7		-1022	+2434	1,850,901 831,648
371	2970		" "	"	11.9	89° 40'	+17.3	+5.4		5257.7		-1150	+2738	1,850,773 831,952
372	3300		97° 26'	"	9.1	89° 44'	+15.4	+6.3		5258.6		-1275	+3044	1,850,648 832,258
373	3631		97° 28 51"	"	9.7	89° 44'	+16.9	+7.2		5259.6	TP	-1406	+3348	1,850,518 832,561
373	3631				13.7	89° 40'	+21.1	+7.4	+17.3		TP	"	-1	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5.23.83		B. Potcamp		D. Wrinkle		6834		DW		3		29			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
NEVADA		GILBERT CREEK S.W. 7 1/2		NEVADA		LANDER								L. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									5259.6						
	2638		271° 37' 13"	+15.3°	8.8	90° 40'	+30.7	+39.5	5299.1		BS	-1027	+2430		
	2638				14.8	90° 32'	+24.6	+39.4			BS	+	-		
374	2309		277° 50'	+15.3°	5.9	90° 50'	-33.6	-39.5	5259.6			+907	-2123	1850,399	832,867
375	1979		278° 03'	" "	10.8	90° 50'	-28.8	-39.6	5259.5			+784	-1817	1850,226	833,173
376	1650		278° 22'	" "	10.0	91° -	-28.8	-38.8	5260.3			+662	-1511	1850,154	833,479
377	1320		278° 43'	" "	12.7	91° 10'	-26.9	-39.6	5259.5			+537	-1206	1850,029	833,784
378	990		279° 23'	" "	16.7	91° 10'	-20.2	-36.9	5262.2			+413	-900	1849,905	834,090
379	660		281° 11'	" "	12.5	91° 10'	-13.4	-25.9	5273.2			+294	-591	1849,786	834,399
380	330		283° 13'	" "	7.5	90° 30'	-2.9	-10.4	5288.7			+158	-290	1849,650	834,700
Bm	162		272° 17' 06"	" "	4.2	90° 30'	-1.4	-5.6	5293.5		Bm	+49	-154	1849,541	834,836
381	0				5.2	-		-5.2	5293.9		T	0	0	1849,492	834,990
382	330		105° 17'	+15.3°	7.3	90° 30'	-2.9	-10.2	5288.9			-168	+284	1849,324	835,274
383	660		105° 54'	" "	7.8	90° 10'	-1.9	-9.7	5289.4			-342	+565	1849,150	835,555
384	990		106° 02'	" "	6.9	-		-6.9	5292.2			-515	+846	1848,977	835,836
385	1320		" "	" "	6.7	-		-6.7	5292.4			-686	+1127	1848,806	836,117
386	1650		" "	" "	7.9	-		-7.9	5291.2			-858	+1409	1848,634	836,399
387	1980		106° 19'	" "	8.5	-		-8.5	5290.6			-1038	+1686	1848,454	836,676
388	2309		105° 52'	" "	7.8	-		-7.8	5291.3			-1195	+1976	1848,297	836,966
389	2638		105° 47'	" "	11.8	89° 50'	+7.7	-4.1	5295.0			-1362	+2259	1848,130	837,249

-1,849,535x-834,840  
U.S.G.S Bm Elev 5294.0  
0-29 1966

FIELD NOTES-HIGH RESOLUTION DATA

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5.24.83		B. Cotcamp		D. Wrinkle		6834		DU		3		30			
STATE		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
NEVADA		GILBERT CREEK S.W. 1/4		NEVADA		LANDER								L. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									5299.1						
390	2968		106° 00'	+15.3	11.0	89° 30'	+8.6	-2.4		5296.7		-1542	+2536	1847,950	837,526
391	3298		106° 02'	" "	10.7	89° 50'	+9.6	-1.1		5298.0		-1715	+2817	1847,777	837,807
392	3628		" "	" "	9.8	89° 50'	+10.6	+0.8		5299.9		-1887	+3099	1847,605	838,089
393	3956		106° 35'	" "	8.3	89° 50'	+11.5	+3.2		5302.3		-2090	+3359	1847,402	838,349
394	4286		106° 37'	" "	6.6	89° 50'	+12.5	+5.9		5305.0		-2266	+3638	1847,226	838,628
Bm	4317		106° 42' 16"	" "	5.9	89° 50'	+12.6	+6.7			Bm	-2288	+3661		
Bm	4317				5.6	270° 10'	+12.6	+7.0	+6.9	5306.0	Bm			1847,205	838,650
	3917		296° 02' 54"	+15.5	13.2	90° 14'	+16.0	+29.2	5335.2		BS	-2598	+2931	1845,710	300,300
	3917				10.9	90° 16'	+18.2	+29.1			BS		+3		
395	3622		296° 47'	+15.5	7.0	90° 20'	-21.1	-28.1		5307.1		+2437	-2680	1845,552	300,546
396	3293		297° 15'	" "	7.0	90° 19'	-18.2	-25.2		5310.0		+2235	-2418	1845,350	300,808
397	2965		297° 49'	" "	7.0	90° 18'	-15.5	-22.4		5312.8		+2034	-2157	1845,149	301,069
398	2637		298° 32'	" "	7.0	90° 18'	-13.8	-20.8		5314.4		+1833	-1896	1844,948	301,330
399	2309		299° 29'	" "	7.0	90° 19'	-12.8	-19.8		5315.4		+1632	-1633	1844,747	301,593
400	1980		300° 41'	+15.5	7.0	90° 19'	-10.9	-17.9		5317.3		+1429	-1371	1844,544	301,855
401	1650		300° 49'	" "	7.0	90° 17'	-8.2	-15.2		5320.0		+1193	-1140	1844,308	302,086
402	1320		" "	" "	7.0	90° 16'	-6.1	-13.1		5322.1		+955	-912	1844,070	302,314
403	990		" "	" "	7.0	90° 15'	-4.3	-11.3		5323.9		+716	-684	1843,831	302,542
404	660		" "	" "	7.0	90° 10'	-1.9	-8.9		5326.3		+477	-456	1843,592	302,770
405	330		" "	" "	7.0	90° 05'	-0.5	-7.5		5327.7		+239	-228	1843,354	302,998

LAST STA. ON ROAD  
CROSS COUNTRY  
FROM 394 TO 440  
B-1847,205 X-838,650  
L.S.G.S Bm elev 5307.0  
48 RBR 1964 Horiz -7  
CORR X=38  
Y=1845,710 X=300,300  
Central Zone  
Gilbert Creek S.W. 1/4

NOTES-HIGH RESOLUTION DATA

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5.24.83		D. Winkle		W. Greenfield		6834		DW		3		31			
STATE		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
NEVADA		Gilbert Creek S.E. 7 1/2'		NEVADA		LANDER								L. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									5335.2						
406	0				5.2	-		5.2		5330.0	X	0	0	1843,115	303,226
407	330		122° 16'	+15.5	7.0	89° 12'	+4.6	-2.4		5332.8		-244	+222	1842,871	303,448
408	660		122° 22'	"	7.0	89° 28'	+6.1	-0.9		5334.3		-489	+443	1842,626	303,669
409	990		122° 34'	"	7.0	89° 34'	+7.5	+0.5		5335.2		-736	+662	1842,379	303,888
410	1320		122° 40'	"	7.0	89° 34'	+10.0	+3.0		5338.2		-984	+880	1842,131	304,106
411	1650		122° 43'	+15.5	7.0	89° 34'	+12.5	+5.5		5340.7		-1230	+1099	1841,885	304,325
412	1980		122° 18'	"	7.0	89° 36'	+13.8	+6.8		5342.0		-1467	+1330	1841,648	304,556
413	2308		121° 48'	"	7.0	89° 37'	+15.4	+8.4		5343.6		-1696	+1565	1841,419	304,791
414	2637		121° 10'	"	7.0	89° 36'	+18.4	+11.4		5346.6		-1918	+1810	1841,197	305,036
415	2966		120° 43'	"	7.0	89° 37'	+19.8	+12.8		5348.0		-2141	+2052	1840,974	305,278
416	3296		120° 20' 38"	"	7.0	89° 38' 36"	+20.5	+13.5			TP	-2365	+2296	1840,763	305,517
416	3296				7.0	270° 21' 52"	+21.0	+14.0	+13.8	5349.0	TP	+3	-5		
	2967		297° 11' 58"	+15.5	7.0	90° 41'	+35.4	+42.4			BS	-2012	+2180		
	2967				7.0	269° 18' 55"	+35.5	+42.5	+13.8	5391.5	BS	+3	-5		
417	2137		297° 16'	+15.5	7.0	90° 43'	-33.0	-40.0		5351.5		+1791	-1936	1840,535	305,756
418	2307		"	"	7.0	90° 45'	-30.2	-37.2		5354.3		+1566	-1694	1840,310	305,998
419	1978		"	"	7.0	90° 47'	-27.0	-34.0		5357.5		+1343	-1452	1840,087	306,240
420	1648		"	"	7.0	90° 48'	-23.0	-30.0		5361.5		+1119	-1210	1839,863	306,482
421	1318		"	"	7.0	90° 52'	-19.9	-26.9		5364.6		+895	-968	1839,639	306,724
422	988		"	"	7.0	91° 01'	-17.5	-24.5		5367.0		+671	-725	1839,415	306,967

NOTES-HIGH RESOLUTION DATA

Geosource Inc.

44-83		INSTRUMENT MAN D. Winkle		ROD MAN W. Greenfield		PARTY NUMBER 6834		NOTES CHECKED BY			LINE NO. 3		PAGE 32		
VADA		TOPO MAP Gilbert Creek		STATE NEVADA		COUNTY LANDER		TWP		RANGE		PPM		PARTY MANAGER L. Davis	
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	X
								5391.5							
3	659	297° 16'	+15.5°	7.0	90° 40'	-7.7	-14.7		5376.8		+447	-484	1839,191	307,208	
124	330	297° 16'	" "	7.0	90° 16'	-1.5	-8.5		5383.0		+224	-242	1838,968	307,450	
425	0			5.2	-		-5.2		5386.3	TP	0	0	1838,244	307,692	
426	330	117° 16'	+15.5°	7.0	89° 38'	+2.1	-4.9		5386.6		-224	+242	1838,500	307,934	
427	658	117° 44'	" "	7.0	89° 10'	+9.6	+2.6		5394.1		-451	+479	1838,293	308,171	
428	988	" "	" "	7.0	89° 03'	+16.4	+9.4		5400.9		-677	+720	1838,067	308,412	
429	1317	118° 02'	" "	7.0	89° 06'	+20.7	+13.7		5405.2		-907	+955	1837,837	308,647	
430	1647	118° 11'	" "	7.0	89° 08'	+24.9	+17.9		5409.4		-1138	+1191	1837,606	308,883	
431	1977	118° 18'	" "	7.0	89° 09'	+29.3	+22.3		5413.8		-1368	+1427	1837,276	309,119	
432	2308	118° 22'	" "	7.0	89° 09'	+34.2	+27.2		5418.7		-1599	+1664	1837,145	309,356	
433	2638	118° 24' 36"	" "	7.0	89° 14' 51"	+34.6	+27.6			TP	-1829	+1900	1836,918	309,587	
433	2638			7.0	270° 45' 10"	+34.7	+27.7		5419.2	TP	+3	-5			
	1939	294° 58' 35"	+15.5°	7.0	90° 46'	+25.9	+32.9	5452.1		BS	-1259	+1475			
	1939			7.0	269° 11' 11"	+25.8	+32.8			BS	+3	-5			
434	1610	294° 10'	+15.5°	7.0	90° 44'	+20.6	-27.6		5424.5		+1028	-1239	1836,690	309,818	
435	1281	292° 58'	" "	7.0	90° 42'	-15.7	-22.7		5429.4		+797	-1603	1836,459	310,054	
436	954	290° 53'	" "	7.0	90° 40'	-11.1	-18.1		5434.0		+566	-768	1836,228	310,289	
437	629	286° 39'	" "	7.0	90° 32'	-5.9	-12.9		5439.2		+735	-533	1835,997	310,524	
438	315	273° 49'	" "	7.0	90° 22'	-2.0	-9.0		5443.1		+104	-297	1835,766	310,760	
439	0			5.2	-		-5.2		5446.9	TP	0	0	1835,462	311,057	

1st St. Back  
on ROAD

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5.24.83		B. Cotcamp		D. Wrinkle		6834		DW		3		33			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
NEVADA		GILBERT CREEK S.E. 7 1/2		NEVADA		LANDER								L. Davis	
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 X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									5452.1						
440	330		80° 02'	+15.5°	7.0	89° -	+5.8	-1.2		5450.9		-32	+328	1,835,630	311,385
441	660		80° 13'	" "	6.0	89° -	+11.5	+5.5		5457.6		-66	+657	1,835,596	311,714
442	990		" "	" "	7.9	89° -	+17.3	+9.4		5461.5		-99	+985	1,835,563	312,042
443	1320		80° 19'	" "	10.9	89° -	+23.0	+12.1		5464.2		-134	+1313	1,835,528	312,370
444	1650		80° 04'	" "	11.5	89° -	+28.8	+17.3		5469.4		-160	+1642	1,835,502	312,699
445	1980		" "	" "	9.6	89° -	+34.6	+25.0		5477.1		-192	+1971	1,835,470	313,028
446	2310		79° 55'	" "	5.1	89° -	+40.3	+35.2		5487.3		-218	+2300	1,835,444	313,357
447	2640		79° 33' 68"	+15.2°	7.2	88° 50'	+53.8	+46.6			TP	-219	+2630	1,835,446	313,682
447	2640				7.0	211° 10'	+53.8	+46.8	441.7	5498.8	TP	+3	-5		
	2915		260° 15' 36"	+15.2°	8.3	92° 30'	+127.2	+135.5			BS	-277	+2899		
	2915				+13.5	92° 24'	+122.1	+135.6	5634.4		BS	+3	-5		
448	2586		260° 33'	+15.2°	10.3	92° 30'	-112.7	-123.0		5511.4		+259	-2573	1,835,431	314,003
If	2459		260° 55' 48"	" "	12.2	92° 30'	-107.2	-119.4		5515.0	If				
449	2256		260° 45'	" "	12.6	92° 30'	-98.3	-110.9		5523.5		+234	-2244	1,835,406	314,332
450	1926		261° 02'	" "	7.9	92° 40'	-89.5	-97.4		5537.0		+209	-1915	1,835,381	314,661
451	1599		262° 27'	" "	9.1	92° 50'	-78.9	-88.0		5546.4		+213	-1585	1,835,385	314,991
452	1272		264° 42'	" "	12.0	92° 50'	-62.8	-74.8		5559.6		+219	-1253	1,835,391	315,323
453	955		269° 21'	" "	7.7	92° 50'	-47.2	-54.4		5580.0		+240	-924	1,835,412	315,652
454	651		278° 35'	" "	11.8	92° 50'	-32.1	-43.9		5590.5		+263	-596	1,835,435	315,980

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5.25.83		B. Cotcamp		D. Wrinkle		6834		SW		3		34			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
NEVADA		Gilbert Creek, E 1/2		NEVADA		LANDER								L. Davis	
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 X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									5634.4						
455	327		274° 53'	+15.2°	10.1	93° 20'	-19.0	-29.1		5605.3		+112	-307	1,835,284	316,269
456	0				5.2	-		-5.2		5629.2	X	0	0	1,835,172	316,576
457	330		92° 52'	+15.2°	7.0	89° 50'	+1.0	-6.0		5628.4		-102	+314	1,835,070	316,890
458	659		89° 45'	~	9.0	88° 40'	+15.3	+6.3		5640.2		-170	+637	1,835,002	317,213
459	985		86° 01'	~	7.4	88° 10'	+31.5	+24.1		5658.5		-193	+966	1,834,979	317,542
460	1292		88° 57'	~	10.2	87° 40'	+52.6	+42.4		5676.8		-316	+1253	1,834,856	317,829
461	1565		96° 24'	~	11.5	87° 50'	+59.1	+47.6		5682.0		-576	+1455	1,834,596	318,031
462	1876		98° 18'	~	10.8	87° 50'	+70.9	+60.1		5694.5					E.O.L. Line #3
IF	1939		97° 48' 18"	~	9.9	87° 50'	+73.3	+63.4		5697.8	IF	-757	+1784	1,834,418	318,355
IF	1939				4.4	88°	+67.7	+63.3			IF	+3	-5		
	1938		97° 40' 12"	+15.2°	4.6	88°	-67.6	-63.0			BS	+753	-785		TRAVERSE to
	1938				+10.3	87° 50'	-73.3	-63.0	5,634.8		BS	+3	-5		BENCH MARK
X	0				5.2	-		-5.2		5629.6	X	0	0	1,835,174	316,565
TP	2916		260° 07' 31"	+15.5°	4.6	92° 35'	-131.4	-136.0		5498.9	TP	+286	-2899	1,835,463	313,661
TP	2916				8.6	92° 30'	-127.2	-135.8	(30.9)		TP	+3	-5		
	2640		79° 22' 14"	+15.5°	14.9	88° 40'	-61.4	-46.5			BS	+224	-2630		
	2640				+7.4	88° 50'	-53.8	-46.4	5452.5		BS	+3	-5		
X	0				5.2	-		-5.2		5447.3	X	0	0	1,835,690	311,026
TP	2684		257° 29' 17"	+15.5°	9.8	90° 30'	-23.4	-33.2		5419.3	TP	+140	-2680	1,835,837	308,341
TP	2684				14.6	90° 24'	-18.7	-33.3			TP	+3	-5		

SURVEY NOTES-HIGH RESOLUTION DATA

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
5.25.83		B. Cotcamp		D. Wrinkle		6834		Dw		3	35					
AREA		TORO MAP	STATE	COUNTY	TWP	RANGE	PPM	PARTY MANAGER								
NEVADA		GILBERT Creek SE-7 1/2	NEVADA	LANDER				L. Davis								
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFER-ENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS
												LAT.	DEP.	Y	X	
										5419.3						
	2366		58° 26' 27"	+15.5	6.3	89° 30'	-20.6	-14.3	5405.0		BS	-654	-2274			
	2366				+13.1	89° 20'	-27.5	-14.4			BS	+3	-5			
well	1371		55° 01' 01"	" "	7.8	89° 30'	+12.0	+4.2		5409.2	well	+457	+1293	1835,639	307,355	well Elev. 5408.0
TP	0				5.2	-		-5.2		5399.8	TP	0	0	1835,182	306,062	
TP	3487		236° 45' 16"	+15.7	11.4	-		-11.4		5393.6	TP	-1051	-3325	1834,134	302,732	
TP	3487				7.3	90° 04'	-4.1	-11.4			TP	+3	-5			
	2685		57° 22' 35"	+15.7	14.7	89° 42'	-14.1	+0.6	5394.3		BS	-782	-2569			
	2685				+13.3	89° 44'	-12.5	+0.8	+0.7		BS	+3	-5			
TP	0				5.2	-		-5.2		5389.1	TP	0	0	1833,355	300,158	
TP	2800		236° 35' 30"	+15.7	12.1	-		-12.1		5382.2	TP	-852	-2667	1837,506	297,486	
TP	2800				8.9	90° 04'	-3.3	-12.2			TP	+3	-5			
	2739		145° 57' 56"	+15.3	8.6	89° 30'	-23.9	-15.3	5346.8		BS	+2594	-880			
	2739				+13.2	89° 24'	-28.7	-15.5	-15.4		BS	+3	-5			
TP	0				5.2	-		-5.2		5361.6	TP	0	0	1835,103	296,601	
Bm	3802		3° 53' 27"	+15.3	9.6	90° 14'	-15.5	-25.1			Bm	+3591	+1250			y - 1838,700 x - 297,855 U.S.G.S Bm. Elev. 5433
Bm	3802				14.0	90° 10'	-11.1	-25.1	5341.7		Bm	+3	-5	1838,697	297,846	Horiz y - +51' corr x - -81'