

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
7.18.83		B. Potcamp		D. Winkle		6834		DW		5		2			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
NEVADA		GANDY - 15'		UTAH		MILLARD								L. D. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
										5444.9					
	806		71° 52' 48"	+16.5	6.5	88° 20'	-23.4	-16.9	5428.0		BS	-23	-805		
	806				8.8	88° 10'	-25.8	-17.0			BS	-2	+3		
10	609		73° 59'	" "	6.7	88° 20'	+17.7	+11.0		5439.0		-5	+609	419,209	1,345,631
11	279		75° 18'	" "	6.3	88° 26'	+8.1	+1.8		5429.8		-9	+279	419,205	1,345,301
π	0				5.2	-		-5.2		5422.8	π	0	0	419,214	1,345,022
12	46		221° 29'	+16.5	5.8	91° 40'	-1.3	-7.1		5420.9		-24	-39	419,190	1,344,983
13	374		212° 43'	" "	9.2	91° 40'	-10.9	-20.1		5407.9		-244	-283	418,970	1,344,739
#	505		212° 47' 53"	" "	9.1	91° 50'	-16.1	-25.2		5402.8		-329	-383	418,885	1,344,639
14	702		216° 42'	" "	8.8	91° 50'	-22.4	-31.2		5396.8		-421	-562	418,793	1,344,460
TP	729		218° 13' 19"	" "	8.7	91° 50'	-23.3	-32.0		5396.0	TP	-421	-595	418,791	1,344,430
TP	729				10.8	91° 40'	-21.2	-32.0			TP	-2	+3		
	420		90° 08' 11"	+16.5	3.7	88°	-14.7	-11.0			BS	+120	-402		
	420				11.0	87°	-22.0	-11.0	5385.0		BS	-2	+2		
15	129		75° 29'	" "	5.7	88°	+4.5	-1.2		5383.8		-4	+129	418,905	1,344,159
#	165		74° 16' 02"	" "	6.0	88°	+3.7	-2.3		5382.7		-1	+105	418,908	1,344,135
π	0				5.2	-		-5.2		5379.8	π	0	0	418,909	1,344,030
16	196		216° 31'	+16.5	6.8	92°	-6.8	-13.6		5371.4		-118	-157	418,791	1,343,873
17	524		213° 11'	" "	8.1	92°	-18.3	-26.4		5358.6		-339	-400	418,570	1,343,630
18	851		213° 00'	" "	8.1	92°	-29.7	-37.8		5347.2		-553	-647	418,356	1,343,383

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

80 87°30' 28°40'53" #26

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7-18-83		B. Cotcamp		D. Wrinkle		6834		D.W.		5		3			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
NEVADA		CANDY - 15'		UTAH		MILLARD								L. O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									5385.0						
19	1171		208° 12' 07"	+16.5°	8.6	92° -	-40.9	-49.5			TP	-832	-823	418,075	1,343,209
19	1171				11.9	91° 50'	-37.5	-49.4		5335.6	TP	-2	+2		
	640		26° 52' 59"	" "	6.4	88° -	-22.3	-15.9	5319.7		BS	-465	-439		
	640				8.2	87° 50'	-24.2	-16.0			BS	-2	+2		
20	320		37° 26'	" "	8.0	87° 50'	+12.1	+4.1		5323.8		+189	+258	417,797	1,343,030
21	0				5.2	-		-5.2		5314.5	T	0	0	417,608	1,342,772
22	330		246° 18'	+16.5°	7.6	91° 40'	-9.6	-12.2		5302.5		-41	-327	417,567	1,342,445
23	660		246° 25' 01"	" "	8.4	91° 40'	-19.2	-27.6		5292.1	TP	-81	-655	417,525	1,342,119
23	660				6.5	91° 50'	-21.1	-22.6			TP	-2	+2		
	1973		41° 58' 40"	" "	13.0	88° -	-68.9	-55.9	5236.2		BS	-1031	-1681		
	1973				7.0	88° 10'	-63.1	-56.1			BS	-2	+2		
SEC CORNER	2046		32° 01' 54"	+16.5°	2.8	87° -	+106.9	+104.1		5340.3	SEC. CORN.	+1353	+1531	417,845	1,341,971
11"	1705		46° 50' 35"	" "	7.4	88° 10'	+54.5	+47.1		5283.3	11"	+920	+1435	417,412	1,341,875
24	1648		40° 25'	" "	8.6	88° 10'	+52.7	+44.1		5280.3		+900	+1381	417,392	1,341,821
25	1319		39° 37'	" "	6.4	88° 10'	+42.2	+35.8		5272.0		+735	+1095	417,227	1,341,535
26	990		38° 09'	" "	6.9	88° 10'	+31.7	+24.8		5261.0		+573	+807	417,065	1,341,247
27	660		37° 18'	" "	6.7	88° 10'	+21.1	+14.4		5250.6		+390	+533	416,882	1,340,923
28	330		35° 57'	" "	5.9	88° 10'	+10.6	+4.7		5240.9		+201	+262	416,693	1,340,702
29	0				5.2	-		-5.2		5231.0	T	0	0	416,492	1,340,440
30	330		212° 46'	+16.5°	5.9	91° 40'	-9.6	-15.5		5220.7		-215	-250	416,277	1,340,190

417,800 x 1,342,000
SECTION CORNER OF ELEV. 5340.0
6-417,375 x-1,341,900
11" T-TRAIL SOUTH

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

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7-18-83		B. Cotcamp		D. Wrinkle		6834		D.W.		5		4							
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER					
UTAH NEVADA		CANDY - 15'		UTAH		M. HARP								L. D. Davis					
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS	
												LAT.	DEP.	Y	X				
									5236.2										
31	660		211° 44'	+16.5	6.7	91° 40'	-19.2	-25.9		5210.3		-440	-492	416,052	1,339,948				
32	989		216° 34'	" "	9.2	91° 40'	-28.8	-38.0		5198.2		-674	-724	415,818	1,339,716				
33	1293		215° 32'	" "	10.3	91° 40'	-32.6	-42.9		5188.3		-795	-1019	415,697	1,339,421				
34	1598		220° 34'	" "	11.2	91° 40'	-46.5	-57.7		5178.5		-869	-1341	415,623	1,339,099				
TP	1821		222° 24' 38"	" "	6.5	91° 30'	-47.7	-54.2		5182.0	TP	-940	-1559	415,550	1,338,883				
TP					11.8	91° 20'	-42.4	-54.2			TP	-	-						
	1997		40° 24' 34"	+16.5	7.7	87° 50'	-75.5	-67.8			BS	-1096	-1672						
	1997			+	13.5	87° 40'	-81.3	-67.8	5114.2		BS	-	-						
35	1945		36° 58'	" "	12.5	88° -	+67.8	+55.3		5169.5		+1158	+1563	415,616	1,338,776				
36	1646		32° 57'	" "	10.1	88° -	+57.4	+47.3		5161.5		+1070	+1251	415,528	1,338,464				
37	1317		31° 45'	" "	9.0	88° -	+45.9	+36.9		5151.1		+877	+983	415,335	1,338,196				
38	988		32° 22'	" "	7.0	88° -	+34.5	+27.5		5141.7		+650	+744	415,108	1,337,957				
39	660		34° 15'	" "	6.0	88° -	+23.0	+12.0		5131.2		+418	+511	414,876	1,337,724				
40	330		36° 00'	" "	4.4	88° -	+11.5	+2.1		5121.3		+201	+262	414,659	1,337,475				
41	0				5.2	-	-	-5.2		5109.0	X	0	0	414,458	1,337,213				
42	330		215° 24'	+16.5	5.7	91° 40'	-9.6	-15.3		5098.9		-204	-260	414,254	1,336,953				
43	660		" "	" "	6.3	91° 40'	-19.2	-25.5		5088.7		-407	-519	414,051	1,336,694				
44	990		" "	" "	7.0	91° 40'	-28.8	-35.8		5078.4		-611	-779	413,847	1,336,434				
45	1320		216° 19'	" "	6.7	91° 40'	-38.4	-45.1		5069.1		-798	-1052	413,660	1,336,161				
46	1648		217° 34'	" "	9.7	91° 40'	-47.9	-57.6		5056.6		-967	-1334	413,491	1,335,879				

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GEO-445

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7.18.83		B. Cotcamp		D. Wrinkle		6834		D.W. S.S.		5		5			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
NE NEVADA		GANDY - 15'		UTAH		Milled								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									5114.2						
47	1977		218° 23'	+16.5	9.9	91° 40'	-57.5	-67.4		5046.8		-1137	-1617	413,321	1,335,596
48	2307		218° 53' 48"	"	9.7	91° 40'	-62.1	-76.8		5032.4	TP	-1310	-1898	413,147	1,335,317
48	2367			"	13.8	91° 34'	-63.1	-76.9			TP	"	"		
	2640		42° 17' 20"	"	12.0	88° 14'	-81.4	-69.4		4962.9	BS	-1367	-2257		
	2640			"	11.7	211° 46'	-81.4	-69.7		4953	BS	"	"		
49	2310		42° 17'	+16.5	9.0	88° 20'	+67.2	+58.2		5026.1		+1197	+1976	412,976	1,335,038
50	1980		" "	"	8.7	88° 20'	+57.6	+48.9		5016.8		+1026	+1693	412,805	1,334,755
51	1650		" "	"	7.7	88° 20'	+48.0	+40.3		5008.2		+855	+1411	412,634	1,334,473
52	1320		" "	"	7.9	88° 20'	+38.4	+30.5		4998.4		+684	+1129	412,463	1,334,191
53	990		42° 17'	+16.5	8.1	88° 10'	+31.7	+23.6		4991.5		+513	+847	412,292	1,333,909
54	660		" "	"	7.8	88° 10'	+21.1	+13.3		4981.2		+342	+564	412,121	1,333,626
55	330		" "	"	5.8	88° 10'	+10.6	+4.8		4972.7		+171	+282	411,950	1,333,344
56	0				5.2	-		-5.2		4962.7	X	0	0	411,779	1,333,062
57	330		222° 13'	+16.5	5.9	91° 10'	-6.7	-12.6		4955.3		-171	-282	411,608	1,332,780
58	660		" "	"	7.7	91° 10'	-13.4	-21.1		4946.8		-343	-564	411,436	1,332,498
59	990		" "	"	9.6	91° 10'	-20.2	-29.8		4938.1		-514	-846	411,265	1,332,216
60	1320		" "	"	6.2	91° 20'	-30.7	-36.9		4931.0		-685	-1128	411,094	1,331,934
61	1650		" "	"	8.0	91° 20'	-38.4	-46.4		4921.5		-857	-1410	410,922	1,331,652
62	1980		" "	"	8.2	91° 20'	-46.1	-54.3		4913.6		-1028	-1692	410,751	1,331,370
63	2310														LAST STA. ON GROUP RAMP

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

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7-18-83		B. Cotcamp		O. Wrinkle		6834		D.W. JS		5		6				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
NEVADA		Gandy-15'		UTAH		MILLARD								L.O. Davis		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
									4967.9							
63	2220		228° 42'	+16.5	8.9	91° 20'	-51.6	-60.5		4907.4		-931	-2015	410,848	1,331,047	OLD seismic line to B2
64	2483		233° 35' 33"	"	13.4	91° 10'	-50.6	-64.0		4904.1	TP	-845	-2334	410,933	1,330,730	E.O.D. 7-18-83 to
64	2483				13.1	268° 50'	-50.6	-63.7	-13.85		TP	-	"			windy.
	3295		88° 32' 00"	+16.54	9.6	89° 10'	-47.9	-38.3	4865.8		BS	+855	-3182			
	3295				9.5	270° 50'	-47.9	-38.4			BS	-	"			
65	2966		88° 32'	"	9.2	89° 10'	+43.1	+33.9		4899.7		-769	+2864	411,018	1,330,414	
66	2637		" "	"	10.4	89° 10'	+38.3	+27.9		4893.7		-684	+2547	411,103	1,330,097	
67	2307		" "	"	8.8	89° 10'	+33.5	+24.7		4890.5		-598	+2228	411,189	1,329,778	
68	1978		" "	"	9.2	89° 10'	+28.8	+19.6		4885.4		-513	+1910	411,274	1,329,460	
69	1648		88° 32'	+16.5	7.9	89° 10'	+24.0	+16.1		4881.9		-427	+1592	411,360	1,329,142	
70	1319		" "	"	8.5	89° 10'	+19.2	+10.7		4876.5		-342	+1274	411,445	1,328,824	
71	989		" "	"	9.2	89° 10'	+14.4	+5.2		4871.0		-257	+955	411,530	1,328,505	
72	660		" "	"	10.7	89° 10'	+9.6	-1.1		4864.7		-171	+637	411,616	1,328,187	
73	330		" "	"	5.9	89° 10'	+4.8	-1.1		4864.7		-86	+319	411,701	1,327,869	
74	0				5.2	-		-5.2		4860.6	X	0	0	411,787	1,327,550	
75	330		268° 39'	+16.5	7.1	90° 20'	-1.9	-9.0		4856.8		+86	-319	411,873	1,327,231	
76	660		" "	"	7.0	90° 20'	-3.8	-10.8		4855.0		+172	-637	411,959	1,326,913	
77	990		" "	"	9.2	90° 20'	-5.8	-15.0		4850.8		+259	-956	412,046	1,326,594	
78	1320		" "	"	11.9	90° 20'	-7.7	-19.6		4846.2		+345	-1274	412,132	1,326,276	
79	1650		" "	"	7.9	90° 30'	-14.4	-22.3		4843.5		+431	-1593	412,218	1,325,957	

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AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM				
NEVADA		GANDY - 15'		UTAH		MILLARD						PARTY MANAGER L.O. Davis				
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
sec. corner	1907		273° 51' 18"	+16.5°	5.0	90° 30'	-16.6	-21.6	4865.8						y-412450 x-1325,775	
80	1779		268° 39'	"	9.1	90° 30'	-17.3	-26.4		4844.2	sec. corner	+663	-1788	412,450	1,325,762	section corner 54 vs. constant survey 1962
81	2309		" "	"	10.0	90° 30'	-20.2	-30.2		4839.4		+517	-1910	412,304	1,325,640	
82	2638		" "	"	11.7	90° 30'	-23.0	-34.7		4835.6		+603	-2229	412,390	1,325,321	
IF	2770		268° 17' 23"	"	11.4	90° 30'	-24.2	-35.6		4831.1		+689	-2546	412,476	1,325,004	LAST ONE ON seismic line
83	2967		268° 45' 46"	"	11.9	90° 30'	-25.9	-32.8		4830.2		+707	-2678	412,494	1,324,872	
83	2967				11.8	269° 30'	-25.9	-32.2		4828.1	TP	+781	-2862	412,567	1,324,600	Back on gravel road
	2641		88° 34' 58"	+16.5°	7.8	89° 20'	-30.7	-22.9			BS	+687	-2550			
	2641				7.5	270° 40'	-30.7	-23.2	4805.1		BS	-	-			
84	2310		88° 46'	"	7.3	89° 20'	+26.9	+19.6		4824.7		-604	+2230	412,649	1,324,372	
85	1986		" "	"	7.2	89° 20'	+23.0	+15.8		4820.9		-518	+1911	412,735	1,324,053	
86	1650		" "	"	6.2	89° 20'	+19.2	+13.0		4818.1		-432	+1593	412,821	1,323,735	
87	1326		" "	"	6.6	89° 20'	+15.4	+8.8		4813.9		-345	+1274	412,908	1,323,416	
88	990		88° 46'	+16.5°	6.9	89° 20'	+11.5	+4.6		4809.7		-259	+956	412,994	1,323,098	
89	660		" "	"	7.2	89° 20'	+7.7	+0.5		4805.6		-173	+637	413,080	1,322,779	
90	330		" "	"	6.8	89° 20'	+3.8	-3.0		4802.1		-86	+319	413,167	1,322,461	
91	0				5.2	-		-5.2		4799.9	X	0	0	413,253	1,322,142	
92	330		268° 43'	"	6.3	90° 10'	-1.0	-7.3		4797.8		+87	-318	413,340	1,321,824	
93	660		" "	"	7.8	90° 10'	-1.9	-9.7		4795.4		+173	-637	413,426	1,321,505	
94	990		" "	"	8.7	90° 10'	-2.9	-11.6		4793.5		+260	-955	413,513	1,321,187	

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
7-19-83		B. Cotcamp		D. Winkler		6834		JW		5		8			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
UTAH NEVADA		Gandy-15		UTAH		Millard								L.D. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									4805.1						
95	1320		268° 43'	+16.5°	9.8	90° 10'	-3.8	-13.6		4791.5		+346	-1274	413,599	1,320,868
96	1650		" "	" "	9.8	90° 10'	-4.8	-14.6		4790.5		+433	-1592	413,686	1,320,550
97	1980		" "	" "	9.2	90° 10'	-5.8	-15.0		4790.1		+520	-1911	413,773	1,320,231
98	2310		" "	" "	8.3	90° 10'	-6.7	-15.0		4790.1		+606	-2229	413,859	1,319,913
99	2640		268° 44' 59"	" "	7.6	90° 10'	-7.7	-15.3			TP	+694	-2547	413,946	1,319,597
99	2640			" "	7.4	268° 50'	-7.7	-15.1	-15.2	4789.9	TP		+2		
	2640		88° 37' 25"	+16.5°	4.7	-		+4.7			BS	+689	-2549		
	2640				4.4	270° -		+4.4	+4.6	4794.5	BS	-1	+2		
100	2310		88° 38'	" "	10.9	89° 50'	+6.7	-4.2		4790.3		-603	+2230	414,031	1,319,280
101	1980		" "	" "	10.3	89° 50'	+5.8	-4.5		4790.0		-517	+1911	414,117	1,318,961
102	1650		" "	" "	9.1	89° 50'	+4.8	-4.3		4790.2		-431	+1593	414,203	1,318,643
103	1320		" "	" "	5.5	89° 50'	+3.8	-1.7		4792.8		-345	+1274	414,289	1,318,324
104	990		88° 38'	" "	5.4	89° 50'	+2.9	-2.5		4792.0		-258	+956	414,376	1,318,006
105	660		" "	" "	7.0	89° 50'	+1.9	-5.1		4789.4		-172	+637	414,462	1,317,687
106	330		" "	" "	6.1	89° 50'	+1.0	-5.1		4789.4		-86	+319	414,548	1,317,369
107	0				5.2	-		-5.2		4789.3	TP	0	0	414,634	1,317,050
108	330		268° 37'	+16.5°	6.0	89° 50'	+1.0	-5.0		4789.5		+86	-319	414,720	1,316,731
11	563		267° 52' 17"	" "	6.5	89° 50'	+1.6	-4.9		4789.6	11	+140	-515	414,774	1,316,505
109	660		268° 37'	" "	6.7	89° 50'	+1.9	-4.8		4789.7		+172	-637	414,806	1,316,413
110	990		" "	" "	7.1	89° 50'	+2.9	-4.2		4790.3		+258	-956	414,892	1,316,094

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE					
7-19-83		B. Cotcamp		D. Winkle		6834		DW SS		5		9					
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER			
UTAH NEVADA		GANDY - 15		UTAH		MILLARD								L.O. Davis			
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH - LAT.	EAST + WEST - DEP.	COORDINATES		REMARKS	
														Y	X		
									4794.5								
111	1320		268° 37'	+16.5	7.1	89° 50'	+3.8	-3.3		4791.2		+344	-1274	414,978	1,315,776		
112	1650		" "	" "	6.7	89° 50'	+4.8	-1.9		4792.6		+430	-1593	415,064	1,315,454		
113	1980		" "	" "	5.8	89° 50'	+5.8	+0.0		4794.5		+516	-1911	415,150	1,315,139		
114	2310		" "	" "	5.1	89° 50'	+6.7	+1.6		4796.1		+602	-2230	415,236	1,314,820		
115	2642		268° 36' 45"	" "	3.8	89° 50'	+7.7	+3.9			TP	+689	-2551	415,322	1,314,501		
115	2642				3.6	270° 10'	+7.7	+4.1	+4.03	4798.5	TP						
	2641		88° 35' 05"	+16.5	10.9	90° 10'	+7.7	+18.6		4817.1	BS	+687	-2550				
	2641				10.7	269° 50'	+7.7	+18.4			BS						
116	2310		88° 38'	" "	9.8	90° 10'	-6.7	-16.5		4800.6		-603	+2230	415,405	1,314,183		
117	1980		" "	" "	9.1	90° 10'	-5.8	-14.9		4802.2		-517	+1911	415,491	1,313,864		
118	1650		" "	" "	8.1	90° 10'	-4.8	-12.9		4804.2		-431	+1593	415,577	1,313,546		
119	1320		88° 38'	" "	7.1	90° 10'	-3.8	-10.9		4806.2		-345	+1274	415,663	1,313,227		
120	990		" "	" "	6.8	90° 10'	-2.9	-9.7		4807.4		-258	+956	415,750	1,312,909		
121	660		" "	" "	6.6	90° 10'	-1.9	-8.5		4808.6		-172	+637	415,836	1,312,590		
122	330		" "	" "	6.8	-		-6.8		4810.3		-86	+319	415,922	1,312,272		
123	0				5.2	-		-5.2		4811.9	TP	0	0	416,008	1,311,953		
124	330		268° 37'	+16.5	6.0	89° 30'	+2.9	-3.1		4814.0		+86	-319	416,094	1,311,634		
125	660		" "	" "	6.2	89° 30'	+5.8	-0.4		4816.7		+172	-637	416,180	1,311,316		
126	990		" "	" "	7.7	89° 30'	+8.6	+0.9		4818.0		+258	-956	416,266	1,310,997		
127	1320		" "	" "	10.0	89° 30'	+11.5	+1.5		4818.6		+344	-1274	416,352	1,310,679		

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE							
7.19.83		B. Cotcamp		D. Wrinkle		6834		AW		5		10							
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER					
UTAH NEVADA		GANDY - 15'		UTAH		MILLARD								L.D. DAVIS					
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS	
												LAT.	DEP.	Y	X				
									4812.1										
128	1650		268° 37'	+16.5°	11.4	89° 30'	+14.4	+3.0		4820.1		+430	-1593	416,438	1,310,360				
129	1980		" "	" "	12.1	89° 30'	+12.3	+5.2		4822.3		+516	-1911	416,524	1,310,042				
130	2310		" "	" "	12.3	89° 30'	+20.2	+7.9		4825.0		+602	-2230	416,610	1,309,723				
131	2641		268° 39' 43"	+16.8°	12.1	89° 30'	+23.1	+11.0			TP	+704	-2545	416,711	1,309,410				
131	2641				12.0	90° 30'	+23.1	+11.1		4828.2	TP	-	-						
	2310		88° 42' 59"	" "	7.7	90° 30'	+20.2	+22.9	4856.1		BS	+618	-2226						
	2310				14.3	90° 20'	+13.4	+27.7			BS	-	-						
132	1980		88° 53'	+16.8°	7.1	90° 30'	-17.3	-24.4		4831.7		-535	+1906	416,793	1,309,092				
133	1650		88° 50'	" "	6.3	90° 30'	-14.4	-20.7		4835.4		-445	+1589	416,883	1,308,775				
134	1320		89° 02'	" "	6.1	90° 30'	-11.5	-17.6		4838.5		-360	+1270	416,968	1,308,456				
135	990		89° 20'	" "	7.8	90° 20'	-5.8	-13.6		4842.5		-275	+951	417,053	1,308,137				
136	660		89° 42'	" "	6.9	90° 20'	-3.8	-10.7		4845.4		-187	+633	417,141	1,307,819				
137	330		90° 28'	" "	4.7	90° 20'	-1.9	-6.6		4849.5		-98	+315	417,230	1,307,501				
138	0				5.2	-	-	-5.2		4850.9	X	0	0	417,328	1,307,186				
139	330		280° 25'	+16.8°	8.0	89° 10'	+4.8	-3.2		4852.9		+151	-293	417,429	1,306,893				
Bm	955		332° 55' 44"	" "	8.5	89° 30'	+8.3	-0.2		4855.9	Bm	+940	-170	418,268	1,307,016				
140	659		285° 15'	" "	9.4	89° 10'	+9.6	+0.2		4856.3		+350	-559	417,678	1,306,627				
141	986		288° 17'	" "	8.2	89° 10'	+14.3	+6.1		4862.2		+567	-807	417,895	1,306,329				
142	1315		289° 56'	" "	8.3	89° 10'	+19.1	+10.8		4866.9		+786	-1054	418,114	1,306,132				

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE 7-19-83	INSTRUMENT MAN B. Cotcamp	ROD MAN D. Winkle	PARTY NUMBER 6834	NOTES CHECKED BY DW	LINE NO. 5	PAGE 11
AREA NEVADA	TOPO MAP GANDY - 15'	STATE UTAH	COUNTY MILLARD	TWP	RANGE	PPM
				PARTY MANAGER L.O. Davis		

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS
												LAT.	DEP.	Y	X			
									4856.1									
143	1644		291° 04'	+16.8°	10.0	89° 10'	+23.9	+13.9		4870.0		+1009	-1298	418,337	1,305,888			
144	1974		291° 23'	" "	11.8	89° 14'	+26.4	+14.6		4870.7		+1220	-1552	418,548	1,305,634			
145	2298		289° 55' 12"	" "	10.9	89° 16'	+29.4	+18.5			TP	+1374	-1842	418,701	1,305,346	F.O.D. TO WINDY		
145	2298				10.6	270° 44'	+29.4	+18.8	4187.3	4874.8	TP							
	2639		79° 44' 26"	+16.8°	12.1	90° 30'	+23.0	+35.1	4909.9		BS	+301	-2622					
	2639				12.0	269° 30'	+23.0	+35.0			BS							
146	2310		79° 03'	" "	11.9	90° 30'	-20.2	-32.1		4877.8		-235	+2298	418,726	1,305,024			
147	1980		" "	" "	10.8	90° 30'	-12.3	-28.1		4881.8		-202	+1970	418,799	1,304,696			
148	1650		" "	" "	10.2	90° 30'	-14.4	-24.6		4885.3		-168	+1641	418,833	1,304,367			
149	1320		79° 03'	+16.8°	8.5	90° 30'	-11.5	-20.0		4889.9		-135	+1313	418,866	1,304,039			
150	990		" "	" "	6.8	90° 30'	-8.6	-15.4		4894.5		-101	+985	418,900	1,303,711			
151	660		" "	" "	8.3	90° 10'	-1.9	-10.2		4899.7		-67	+657	418,934	1,303,383			
152	330		" "	" "	6.7	90° 10'	-1.0	-7.7		4902.2		-34	+328	418,967	1,303,054			
#1	141		81° 40' 28"	" "	5.4	90° 10'	-0.4	-5.8		4904.1	#1	-21	+139	418,980	1,302,865	-418,980 x -1,302,865		
153	0				5.2	-		-5.2		4904.7	X	0	0	419,001	1,302,726	T-ROAD NORTH		
154	330		259° 01'	+16.8°	6.8	89° 10'	+4.8	-2.0		4907.9		+33	-328	419,034	1,302,398			
155	660		" "	" "	10.4	89° 10'	+9.6	-0.8		4909.1		+67	-657	419,068	1,302,069			
156	990		" "	" "	10.2	89° 20'	+11.5	+1.3		4911.2		+100	-985	419,101	1,301,741			
157	1320		" "	" "	8.9	89° 20'	+15.4	+6.5		4916.4		+134	-1313	419,135	1,301,413			
158	1650		" "	" "	9.6	89° 20'	+19.2	+9.6		4919.5		+167	-1642	419,168	1,301,084			

418,980 x -1,302,865
T-ROAD NORTH
CORR. 5-38
X-51

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
7-20-83		B. Cotcamp		D. Winkle		6834		DN		5		12			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
UTAH NEVADA		CANDY		UTAH		MILLARD								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									4909.9						
159	1980		259° 01'	+16.8	7.9	89° 20'	+23.0	+15.1		4925.0		+201	-1970	419,202	1,300,756
160	2310		" "	" "	9.7	89° 20'	+26.9	+17.2		4927.1		+234	-2298	419,235	1,300,428
161	2641		259° 01' 24"	" "	10.9	89° 20'	+30.7	+19.8			TP	+268	-2627	419,273	1,300,114
161	2641				16.8	270° 40'	+30.7	+19.9		4929.8	TP	"	" ⁺¹⁵		
	2970		78° 55' 27"	+16.8	7.2	90° 50'	+43.2	+50.4			BS	+296	-2955		
	2970				6.9	269° 10'	+43.2	+50.1	4920.1		BS	"	" ⁺¹⁵		
162	2640		78° 57'	" "	9.2	90° 50'	-38.4	-47.6		4932.5		-265	+2627	419,308	1,299,801
163	2310		" "	" "	10.3	90° 50'	-33.6	-43.9		4936.2		-231	+2298	419,342	1,299,472
IF	2284		79° 05' 11"	" "	10.4	90° 50'	-33.2	-43.6		4936.5	IF	-234	+2272	419,339	1,299,446
164	1980		78° 57'	" "	10.2	90° 50'	-28.8	-39.0		4941.1		-198	+1970	419,375	1,299,144
165	1650		" "	+16.8	11.1	90° 50'	-24.0	-35.1		4945.0		-165	+1642	419,408	1,298,816
166	1320		" "	" "	11.9	90° 50'	-19.2	-31.1		4949.0		-132	+1313	419,441	1,298,487
167	990		" "	" "	12.0	90° 50'	-14.4	-26.4		4953.7		-99	+985	419,474	1,298,159
168	660		" "	" "	11.8	90° 50'	-9.6	-21.4		4958.7		-66	+657	419,507	1,297,831
169	330		" "	" "	7.0	90° 50'	-4.8	-11.8		4968.3		-33	+328	419,540	1,297,502
170	0				5.2	-		-5.2		4974.9	X	0	0	419,573	1,297,174
171	330		259° 04'	+16.8	6.4	89° 20'	+3.8	-2.6		4977.5		+34	-328	419,607	1,296,846
172	660		258° 34'	" "	5.9	89° 20'	+7.7	+1.8		4981.9		+62	-657	419,635	1,296,517
Y	700		258° 18' 00"	" "	5.7	89° 20'	+8.1	+2.4		4982.5	Y	+62	-697	419,635	1,296,477

419,325 x -1,299,475
IF - ROAD south

LAST STA. ON ROAD
5 - 419,605 x -1,296,400
IF - INTER.

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
7-20-83		B. Cotcamp		D. Wrinkle		6834		D.W.		5		13				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
UTAH NEVADA		GANDY - 15'		UTAH		MILLARD								L.O. Davis		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
173	988		260° 41'	+16.8°	4.5	89° 20'	+11.5	+2.0	4980.1			+129	-980	419,702	1,296,194	CROSS COUNTRY
174	1316		262° 16'	" "	7.6	89° 10'	+19.1	+11.5		4987.1		+207	-1300	419,780	1,295,824	" "
175	1644		262° 17'	" "	7.3	89° 10'	+23.9	+16.6		4996.7		+260	-1623	419,833	1,295,551	" "
176	1974		262° 04'	" "	7.0	89° 10'	+28.7	+21.7		5001.8		+304	-1950	419,877	1,295,224	" "
177	2291		264° 26'	" "	13.2	89° -	+40.0	+26.8		5006.9		+446	-2247	420,011	1,294,927	" "
178	2607		247° 52' 57"	" "	9.3	89° 10'	+38.4	+29.1		5009.2	YI	-245	-2632	419,328	1,294,542	CROSS COUNTRY S-ROAD
179	2927		266° 38'	" "	13.5	89° -	+45.5	+32.0		5012.1		+606	-2536	420,179	1,294,638	" "
179	2927		268° 22' 24"	" "	12.3	89° -	+51.1	+38.8			TP	+766	-2825	420,343	1,294,364	" "
1889			119° 04' 11"	+16.8°	14.8	91° -	+33.0	+47.8	5019.1		TP					
1889				+9.3	91° 10'		+38.5	+47.8	5066.9		BS	+1356	-1315			GANDY - 15'
180	1577		122° 31'	" "	8.9	91° 10'	-32.1	-41.0		5025.9			+1028	420,506	1,294,093	OSCALA I.W.E. - 7 1/2
181	1260		120° 14'	" "	11.1	91° 10'	-25.7	-36.8		5030.1		-922	+859	420,780	1,293,924	ORTH PHOTO
182	966		112° 54'	" "	12.7	91° 16'	-19.7	-32.4		5034.5		-617	+743	421,085	1,293,808	FIRST STATION BACK ON ROAD
183	657		111° 13' 24"	" "	10.2	91° 30'	-20.3	-30.5		5036.4	1/2	-477	+610	421,225	1,293,625	S-ROAD WEST HORZ 2
184	330		113° 40'	" "	9.9	91° 30'	-17.2	-22.1		5039.8		-426	+500	421,276	1,293,565	CORR. Y. +15, X +61
185	0		117° 47'	" "	7.1	91° 30'	-8.6	-15.7		5051.2		-232	+235	421,470	1,293,300	
186	330			+16.8°	5.2	-		-5.2		5061.7	T	0	0	421,702	1,293,065	
187	660		299° 04'	" "	6.1	88° -	+11.5	+5.4		5072.3		+237	-230	421,939	1,292,835	
			" "	" "	8.0	88° -	+23.0	+15.0		5081.9		+474	-460	422,176	1,292,605	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	7.20.83	INSTRUMENT MAN	B. Cotcamp	ROD MAN	D. Wrinkle	PARTY NUMBER	6834	NOTES CHECKED BY	DW	LINE NO.	5	PAGE	14	
AREA	NEVADA	TOPO MAP	OSCEOLA I.N.E. - 7 1/2'	STATE	UTAH	COUNTY	M. HARRO White Pine	TWP		RANGE		PPM	PARTY MANAGER	L.O. Davis

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS
												LAT.	DEP.	Y	X			
			0						5066.9									
188	990		299° 04'	+16.8°	5.0	88° -	+34.5	+29.5		5096.4		+ 711	-689	422,413	1,292,376			
189	1320		299° 27'	" "	9.2	87° 40'	+53.7	+44.5		5111.4		+954	-913	422,656	1,292,152			
Bm	1619		301° 48' 37"	" "	5.6	87° 40'	+65.9	+60.3		5122.2	Bm	+1215	-1070	422,917	1,291,995	U.S.G.S. Bm Int 1980 Elev. 51290		
190	1650		299° 08' 43"	+17.0	7.3	87° 40'	+67.2	+59.9			TP	+1189	-1142	422,887	1,291,930			
190	1650				12.0	87° 30'	+72.0	+60.0		5126.9	TP	-4	"					
	2637		118° 07' 40"	+17.0	9.9	91° 30'	+69.0	+78.9			BS	+1868	-1860					
	2637				9.6	268° 30'	+69.0	+78.6	5188.5 5205.7		BS	-4	"					
191	2308		117° 32'	" "	9.2	91° 40'	-67.1	-76.3		5129.4		-1619	+1645	422,132	1,291,722			
192	1979		117° 49'	" "	8.8	91° 40'	-52.5	-66.3		5139.4		-1395	+1404	422,356	1,291,481			
193	1650		117° 39'	" "	8.8	91° 40'	-48.0	-56.8		5148.9		-1160	+1174	422,591	1,291,251			
194	1320		117° 04'	" "	8.3	91° 40'	-38.4	-46.7		5159.0		-918	+948	422,833	1,291,025			
195	990		117° 42'	" "	6.3	91° 40'	-28.8	-35.1		5170.6		-696	+704	424,055	1,290,781			
196	660		119° 07'	" "	9.0	91° 20'	-15.4	-24.4		5183.3		-476	+458	424,275	1,290,535			
197	330		" "	" "	6.8	91° 20'	-7.7	-14.5		5191.2		-238	+229	424,513	1,290,306			
198	0				5.2	-		-5.2		5200.5	X	0	0	424,251	1,290,077			
199	330		299° 03'	+17.0	7.4	88° 10'	+10.6	+3.2		5208.9		+238	-229	424,989	1,289,848			
200	660		300° 37'	" "	8.5	88° 10'	+21.1	+12.6		5218.3		+488	-445	425,239	1,289,632			
201	985		303° 01'	" "	7.4	88° 10'	+31.5	+24.1		5229.8		+755	-633	425,506	1,289,444			
202	1310		300° 22'	" "	6.1	88° 10'	+41.9	+35.8		5241.5		+964	-887	425,715	1,289,190			

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	7.20.83	INSTRUMENT MAN	B. Cottramp	ROD MAN	P. Winkle	PARTY NUMBER	6834	NOTES CHECKED BY	DW	LINE NO.	5	PAGE	15
AREA	NEVADA	TOPO MAP	OSCEOLA I.N.E. -7 1/2	STATE	UTAH	COUNTY	MILLARD	TWP		RANGE		PPM	
												PARTY MANAGER	L.O. Davis

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS
												LAT.	DEP.	Y	X			
									5205.7									
203	1640		298° 50'	+17.0	5.2	88° 10'	+52.4	+47.2		5252.9		+1176	-1143	425,927	1,288,934			
204	1960		296° 38'	" "	16.3	88° -	+68.4	+58.1		5263.8		+1352	-1419	426,103	1,288,658			
205	2290		296° 33'	" "	12.5	88° -	+79.9	+67.4		5273.1		+1578	-1660	426,329	1,288,417			
206	2621		296° 36' 23"	" "	7.8	88° 10'	+83.9	+75.9		5281.6	TP	+1807	-1897	426,554	1,288,187			
206	2621				14.1	88° 02'	+89.9	+75.8			TP	"	"					
	2640		118° 00' 03"	+17.0	12.4	91° 30'	+69.1	+81.5			BS	+1866	-1866					
	2640				12.1	268° 30'	+69.1	+81.2	5363.0		BS	"	"					
207	2310		118° 06'	" "	12.3	91° 30'	-60.5	-72.8		5290.2		-1633	+1633	426,783	1,287,961			
208	1980		" "	" "	12.1	91° 30'	-51.8	-63.9		5299.1		-1400	+1400	427,016	1,287,728			
209	1650		117° 53'	" "	16.3	91° 30'	-43.2	-53.5		5309.5		-1164	+1169	427,252	1,287,497			
210	1320		117° 41'	" "	9.3	91° 30'	-34.5	-43.8		5319.2		-928	+939	427,488	1,287,267			
211	990		" "	" "	10.6	91° 30'	-25.9	-35.9		5327.1		-696	+704	427,720	1,287,032			
212	660		118° 35'	" "	9.1	91° 30'	-17.3	-26.4		5336.6		-471	+462	427,945	1,286,790			
213	330		" "	" "	6.3	91° 30'	-8.6	-14.9		5348.1		-236	+231	428,180	1,286,559			
214	0				5.2	-		-5.2		5357.8	X	0	0	428,416	1,286,328			
215	330		298° 51'	+17.0	6.3	88° 10'	+10.6	+4.3		5367.3		+237	-230	428,653	1,286,098			
216	660		" "	" "	7.8	88° 10'	+21.1	+13.3		5376.3		+474	-460	428,890	1,285,868			
217	990		" "	" "	10.1	88° 10'	+31.7	+21.6		5384.6		+710	-690	429,126	1,285,638			
218	1320		298° 09'	" "	8.3	88° 20'	+38.4	+30.1		5393.1		+936	-931	429,352	1,285,397			
219	1650		297° 34'	" "	11.1	88° 20'	+48.0	+36.9		5399.9		+1158	-1176	429,574	1,285,152			

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	7.26.83	INSTRUMENT MAN	B. Cotcamp	ROD MAN	D. Winkle	PARTY NUMBER	6834	NOTES CHECKED BY	DW	LINE NO.	5	PAGE	16	
AREA	UTAH NEVADA	TOPO MAP	OSCEOLA I.N.E. - 7 1/2'	STATE	UTAH	COUNTY	Millard	TWP		RANGE		PPM	PARTY MANAGER	L.O. Davis

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS	
												LAT.	DEP.	Y	X				
									5363.0										
220	1980		296° 52'	+17.0	9.7	88° 28'	+53.0	+43.3		5406.3		+1372	-1427	429,788	1,284,901				
Bm	2089		299° 07' 41"	"	10.1	88° 28'	+55.9	+45.8		5408.8	Bm	+1506	-1448	429,922	1,284,880			u.s.g.s. Bm 2mtB 1980200, 5411.1	
1/4	2130		296° 06' 13"	"	10.2	88° 28'	+57.0	+46.8		5409.8		+1455	-1555	429,871	1,284,773				
221	2306		295° 36' 36"	"	8.6	88° 30'	+60.4	+51.8	+51.8	5414.9	TP	+1561	-1697	429,973	1,284,638				
221	2306			"	8.4	211° 30'	+60.4	+52.0			TP								
	1970		102° 56' 43"	+17.0	7.7	91° -	+34.4	+42.1	+42.1		BS	+983	-1707						
	1970				13.2	90° 50'	+28.7	+41.9	+41.9	5456.9	BS								
222	1642		102° 02'	"	10.8	90° 50'	-23.9	-34.7		5422.2		-797	+1436	430,155	1,284,374				
223	1312		101° 03'	"	9.9	90° 50'	-19.1	-29.0		5427.9		-617	+1158	430,335	1,284,096				
224	984		102° 07'	"	8.7	90° 50'	-14.3	-23.0		5433.9		-479	+860	430,473	1,283,798				
225	658		105° 51'	"	5.9	90° 50'	-9.6	-15.5		5441.4		-357	+553	430,595	1,283,491				
226	330		109° 54'	"	6.0	90° 30'	-2.9	-8.9		5448.0		-198	+264	430,754	1,283,202				
227	0				5.2	-		-5.2		5451.7	T	0	0	430,952	1,282,938				
228	330		292° 47'	+17.0	5.8	88° 10'	+10.6	+4.8		5461.7		+211	-254	431,163	1,282,684				
229	660		294° 38'	"	7.6	88° 10'	+21.1	+13.5		5470.4		+438	-493	431,390	1,282,445				
230	990		295° 01'	"	9.2	88° 10'	+31.7	+22.5		5479.4		+663	-736	431,615	1,282,202				
231	1320		294° 34'	"	10.8	88° 10'	+42.2	+31.4		5488.3		+876	-988	431,828	1,281,950				
232	1650		294° 30'	"	8.6	88° 20'	+48.0	+39.4		5496.3		+1093	-1236	432,045	1,281,702				
233	1980		294° 47' 47"	"	11.1	88° 28'	+57.6	+46.5			TP	+1319	-1476	432,267	1,281,469				
233	1980			"	14.4	88° 14'	+61.0	+46.6		5503.5	TP								

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
7-21-83		B. Cotcamp		D. Wrinkle		6834		DW		5	17					
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER						
UTAH NEVADA		OSCEOLA I.N.E. - 7 1/2		UTAH	MILLARD					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	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS
												LAT.	DEP.	Y	X	
	3300		113° 31' 58"	+17.0	7.3	91° 30'	+86.4	+93.7	435	5503.5	BS	+2148	-2504			
	3300				6.9	288° 30'	+86.4	+93.3		5597.0	BS	-4	17			
234	2976		113° 33'	" "	9.1	91° 30'	-77.7	-86.8		5510.2		-1931	+2257	432,480	1,281,229	UTAH - MILLARD RD. ↑
235	2640		113° 36'	" "	12.7	91° 30'	-69.1	-81.8		5515.2		-1718	+2004	432,693	1,280,976	NEVADA - White Pine CO. ↓
236	2310		113° 45'	" "	6.8	91° 40'	-67.2	-74.0		5523.0		-1508	+1750	432,903	1,280,722	
237	1980		113° 57'	" "	6.4	91° 40'	-57.6	-64.0		5533.0		-1298	+1495	433,113	1,280,467	
238	1650		113° 56'	+17.0	6.0	91° 40'	-48.0	-54.0		5543.0		-1081	+1247	433,330	1,280,291	
239	1320		113° 48'	" "	6.9	91° 40'	-38.4	-45.3		5551.7		-863	+999	433,548	1,279,971	
240	990		112° 59'	" "	10.2	91° 20'	-23.0	-33.2		5563.8		-636	+759	433,725	1,279,731	
241	660		112° 21'	" "	8.4	91° 20'	-15.4	-23.8		5573.2		-419	+510	433,992	1,279,482	
242	330		112° 43'	" "	4.8	91° 20'	-7.7	-12.5		5584.5		-211	+254	434,200	1,279,226	
243	0				5.2	-		-5.2		5591.8	A	0	0	434,411	1,278,972	
244	330		298° 48'	+17.0	8.6	88° 10'	+10.6	+2.0		5599.0		+237	-230	434,648	1,278,742	
245	660		297° 54'	" "	8.8	88° 10'	+21.1	+12.3		5609.3		+466	-468	434,877	1,278,504	↑
246	990		297° 10'	" "	9.3	88° 10'	+31.7	+22.4		5619.4		+690	-710	435,101	1,278,262	OSCEOLA I.N.E. - 7 1/2
247	1320		296° 45'	" "	10.7	88° 10'	+42.2	+31.5		5628.5		+913	-954	435,324	1,278,018	Tippet 4 S.E. - 7 1/2
248	1650		296° 22'	" "	11.9	88° 10'	+52.8	+40.9		5637.9		+1133	-1200	435,544	1,277,772	↓
249	1980		296° 12'	" "	8.3	88° 20'	+57.6	+49.3		5646.3		+1355	-1443	435,766	1,277,529	
250	2310		296° 09'	" "	10.3	88° 20'	+62.2	+56.9		5653.9		+1580	-1685	435,991	1,277,287	
251	2639		296° 34'	" "	11.0	88° 20'	+76.7	+65.7		5662.7		+1819	-1912	436,230	1,277,060	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	7-21-83	INSTRUMENT MAN	B. Cotcamp	ROD MAN	D. Drinkle	PARTY NUMBER	6834	NOTES CHECKED BY	DW	LINE NO.	5	PAGE	78
AREA	NEVADA	TOPO MAP	Tippet # 4 S.E. - 7 1/2	STATE	NEVADA	COUNTY	White Pine	TWP		PARTY MANAGER	L.O. Davis		

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS	
												LAT.	DEP.	Y	X				
252	2968		296° 59'	+17.0	7.9	88° 20'	+86.3	+78.4	5597.0										
Bm	3232		298° 10' 53"	" "	10.6	88° 20'	+94.0	+83.4		5675.4		+2061	-2136	436,472	1,276,836				
253	3297		296° 46' 04"	" "	8.7	88° 20'	+95.9	+87.2		5680.4	Bm	+2293	-2278	436,709	1,276,694			U.S.G.S. 8m, 3mtB 1980 Ed. 50821	
253	3297				8.5	271° 40'	+95.9	+87.4		5684.3	TP	+2280	-2380	436,687	1,276,599				
	2629		119° 04' 25"	+17.0	9.4	91° 10'	+53.5	+62.9			BS	+1893	-1823						
	2629				9.1	268° 50'	+53.5	+62.6	5747.0		BS								
254	2299		119° 18'	" "	7.6	91° 10'	-46.8	-54.4		5692.6		-1662	+1588	436,914	1,276,371				
255	1969		119° 13'	" "	11.3	91° -	-34.4	-45.7		5701.3		-1422	+1362	437,154	1,276,145				
256	1640		119° 58'	" "	8.2	91° -	-28.6	-36.8		5710.2		-1199	+1119	437,377	1,275,902				
257	1319		118° 07'	" "	8.6	91° -	-23.0	-31.6		5715.4		-935	+931	437,641	1,275,714				
258	990		117° 42'	" "	9.0	91° -	-17.3	-26.3		5720.7		-696	+704	437,880	1,275,487				
259	860		" "	" "	7.7	91° -	-11.5	-19.2		5727.8		-464	+469	438,112	1,275,252				
260	330		" "	" "	9.0	91° -	-5.8	-14.8		5732.2		-232	+235	438,344	1,275,018				
261	0				5.2	-		-5.2		5741.8	X	0	0	438,576	1,274,783				
262	330		300° 21'	+17.0	10.2	88° 30'	+8.6	-1.6		5745.4		+243	-224	438,819	1,274,559				
263	660		" "	" "	7.4	88° 30'	+17.3	+9.9		5756.9		+485	-447	439,061	1,274,336				
264	990		298° 41'	" "	7.6	88° 20'	+28.8	+21.2		5768.2		+708	-692	439,284	1,274,091				
265	1318		297° 36'	" "	8.7	88° 20'	+38.3	+29.6		5776.6		+925	-938	439,501	1,273,845				
266	1640		295° 10'	" "	7.8	88° 20'	+47.7	+39.9		5786.9		+1101	-1216	439,677	1,273,567				
IF	1705		294° 17' 01"	" "	7.1	88° 20'	+49.6	+42.5		5789.5		+1125	-1281	439,701	1,273,502				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
7.21.83		B. Potcamp		D. Wrinkle		6834		D.W. JS		5		19			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
NEVADA		Tippet 4 S.E. - 7 1/2		NEVADA		White Pine								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH -	EAST + WEST -		Y
									5747.0						
267	1958		292° 12'	+17.0	6.1	88° 20'	+56.9	+50.8		5797.8		+1238	-1517	439,814	1,273,266
268	2276		289° 45'	" "	5.1	88° 20'	+66.2	+61.1		5808.1		+1362	-1824	439,938	1,272,959
←	2183		291° 08' 25"	" "	5.1	88° 20'	+63.5	+58.4		5805.4	←	+1348	-1716	439,920	1,273,077
269	2594		287° 41' 02"	+14.5	10.9	88° 10'	+83.0	+72.1			TP	+1381	-2194	1,737,495	924,584
269	2594			" "	10.8	271° 50'	+83.0	+72.2		5819.2	TP				
	2259		96° 39' 01"	" "	12.7	92° 10'	+85.4	+98.1	5917.3		BS	+815	-2105		
	2259			" "	12.6	267° 50'	+85.4	+98.0			BS	+1	-2		
270	1929		96° 58'	" "	8.2	92° 20'	-78.5	-86.7		5830.6		-706	+1795	1,737,605	924,272
271	1599		" "	" "	10.4	92° 20'	-65.0	-75.4		5841.9		-585	+1488	1,737,226	923,965
272	1269		96° 54'	" "	12.1	92° 20'	-51.6	-63.7		5853.6		-463	+1182	1,737,848	923,659
273	939		96° 30'	" "	10.8	92° 30'	-40.9	-51.7		5865.6		-337	+877	1,737,974	923,354
274	619		91° 14'	" "	9.1	93°	-32.3	-41.4		5875.9		-168	+596	1,738,143	923,073
275	298		96° 35'	" "	12.0	93° 20'	-17.3	-29.3		5888.0		-107	+278	1,738,204	923,755
276	98		195° 16'	" "	9.2	94° 30'	-7.7	-16.9		5900.4		-85	-49	1,738,226	922,428
⌘	0				5.2	-	-	-5.2		5912.1	⌘	0	0	1,738,311	922,477
277	317		283° 56'	+14.5	8.6	89° 30'	+2.8	-5.8		5911.5		+151	-279	1,738,462	922,198
278	643		281° 25'	" "	9.5	88° 20'	+18.7	+9.2		5926.5		+281	-578	1,738,592	921,899
279	976		279° 05'	" "	9.8	87° 10'	+47.9	+38.1		5955.4		+388	-889	1,738,699	921,588
280	1292		277° 59'	" "	6.7	87° 10'	+63.8	+52.1		5974.4		+494	-1194	1,738,805	921,283
281	1492		279° 50' 13"	" "	7.7	86° 50'	+82.3	+74.6		5991.9	⌘	+614	-1357	1,738,925	921,120

UTAH cent zone
 y - 439,920 x - 1,273,080
 Horiz. y - 111
 Vert. x - 180
 ← south west corner corner
 NEVADA EAST zone
 y - 1,737,385
 x - 925,005
 CHANGE FROM CENTRAL TO NEVADA EAST.

Offline on side of A. 11

y - 1,738,950 x - 921,110
 From west.

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE							
7-21-83		B. Cotcamp		D. Winkle		6834		D W [Signature]		5		20							
AREA		TOPO MAP		STATE		COUNTRY		TWP		RANGE		PPM		PARTY MANAGER					
NEVADA		Tippet # 3 S.E. - 7 1/2		NEVADA		White Pine								L.O. Davis					
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS	
												LAT.	DEP.	Y	X				
									5912.3										
281	1582		284° 13'	+14.5	14.4	86° 40'	+91.8	+72.4		5994.7		+760	-1387	1,739,071	921,090				
282	1771		292° 15'	"	9.0	86° 50'	+97.7	+88.7		6006.0		+1060	-1419	1,739,371	921,058				
TP	1956		295° 54' 46"	"	13.0	86° 50'	+108.1	+95.1			Bm	+1266	-1487	1,739,578	920,988			U.S.G.S. Bm Elev 6014.4	
TP	1956				12.9	273° 16'	+108.1	+95.2		6012.5	Bm	"	-2						4 m to 1980
	1389		140° 10' 14"	+14.5	12.5	"		+12.5			BS	+1255	-594						
	1389				+8.5	96° 16'	+4.0	+12.5		6025.0	BS	"	-2						
283	1313		136° 32'	"	10.0	90° 30'	-11.5	-21.5		6003.5		-1149	+636	1,739,685	921,028				
284	986		134° 26'	"	8.0	90° 30'	-8.6	-16.6		6008.4		-845	+509	1,739,989	920,901				
285	657		134° 56'	"	12.0	90° 30'	-5.7	-17.7		6007.3		-566	+334	1,740,268	920,726				
286	330		136° 42'	"	16.3	91° -	-5.8	-16.1		6008.9		-289	+159	1,740,545	920,551				
287	0				5.2	-		-5.2		6019.8	X	0	0	1,740,834	920,392				
288	330		305° 56'	+14.5	6.4	91° -	-5.8	-12.2		6012.8		+254	-210	1,741,088	920,182				
289	653		311° 36'	"	9.2	90° 20'	-3.8	-13.0		6012.0		+542	-364	1,741,376	920,028				
290	963		319° 34'	"	11.9	89° 40'	+5.6	-6.3		6018.7		+866	-421	1,741,700	919,971				
291	1280		324° 16' 11"	"	8.5	89° 30'	+11.2	+2.7		6027.7	TP	+1193	-463	1,742,028	919,927				
291	1280				12.2	89° 20'	+14.9	+2.7			TP	"	-2						
	3142		133° 26' 06"	"	+12.2	91° 20'	+73.1	+85.3			BS	+2662	-1668						
	3142				+11.9	268° 40'	+73.1	+85.0		6112.9	BS	"	-2						
292	2844		130° 45'	"	9.7	91° 20'	-66.2	-75.9		6037.0		-2337	+1621	1,742,354	919,878				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE		
7.21.83		B. Cotcamp		D. Wrinkle		6834		D W		5		21		
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		
NEVADA		Tippet # 4 S.E. - 7 1/2		NEV.		White Pine						PARTY MANAGER L. O. Davis		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									6112.9					
293	2517		130° 41'	+14.5	10.9	91° 20'	-58.5	-69.4		6043.5		-2066	+1437	1,242,625 919,674
294	2189		130° 18'	" "	12.5	91° 20'	-50.9	-63.4		6049.5		-1789	+1262	1,242,902 919,519
295	1868		128° 09'	" "	7.2	91° 36'	-48.9	-56.1		6056.8		-1485	+1133	1,243,206 919,390
296	1566		123° 48'	" "	6.8	91° 30'	-41.0	-47.8		6065.1		-1169	+1042	1,243,522 919,299
297	1297		116° 07'	" "	9.0	91° 20'	-30.2	-39.2		6073.7		-844	+985	1,243,847 919,242
298	986		115° 34' 29"	" "	8.6	91° 20'	-29.5	-38.1		6074.8	TP	-817	+971	1,243,824 919,228 TP - trail north
299	660		113° 26'	" "	8.1	91° 20'	-22.9	-31.0		6081.9		-606	+778	1,244,085 919,035
300	330		116° 30'	" "	7.0	91° 20'	-15.4	-22.4		6090.5		-433	+498	1,244,258 918,755
301	0		118° 20'	" "	6.2	91° 20'	-7.7	-13.9		6099.0		-224	+242	1,244,467 918,499
302	330		296° 21'	+14.5	5.2	-	-	-5.2		6107.7	TP	0	0	1,244,691 918,257
303	660		" "	" "	6.8	88° 20'	+9.6	+2.8		6115.7		+216	-250	1,244,907 918,007
304	990		" "	" "	7.9	88° 20'	+19.2	+11.3		6124.2		+432	-499	1,245,123 917,758
305	1320		296° 43'	" "	8.8	88° 20'	+28.8	+20.0		6132.9		+652	-745	1,245,343 917,512
306	1649		297° 14'	" "	10.3	88° 20'	+38.4	+28.1		6141.0		+879	-985	1,245,570 917,272
307	1978		298° 18'	" "	12.3	88° 20'	+47.9	+35.6		6148.5		+1120	-1210	1,245,811 917,047
308	2307		298° 40'	" "	8.7	88° 30'	+51.8	+43.1		6156.0		+1353	-1443	1,246,044 916,814
309	2637		299° 08'	" "	9.4	88° 30'	+60.4	+51.0		6163.9		+1592	-1670	1,246,283 916,587
309	2637		299° 24' 06"	" "	10.2	88° 30'	+69.0	+58.8			TP	+1828	-1899	1,246,520 916,356
309	2637			" "	10.1	271° 30'	+69.0	+58.9		6171.8	TP	"	-2	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
7.21.83		B. Cotcamp		D. Wrinkle		6834		D.W. S		5		22			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
NEVADA		Tippett 4 S.E. - 7 1/2'		NEVADA		White Pine								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
	1968		115° 40' 41"	+143	9.4	91° 10'	+40.1	+49.5	6221.3	6171.8	BS	+1264	-1508		
	1968				+9.3	268° 50'	+40.1	+49.4			BS	+1	-2		
310	1638		115° 49'	~	8.2	91° 10'	-33.3	-41.5		6179.8		-1055	+1253	1,246,730	916,099
311	1310		114° 51'	~	7.0	91° 10'	-26.7	-33.7		6187.6		-827	+1016	1,246,958	915,862
312	986		111° 27'	~	9.3	91°	-17.2	-26.5		6194.8		-576	+800	1,247,209	915,646
313	660		109° 05'	~	7.9	91°	-11.5	-19.4		6201.9		-363	+551	1,247,422	915,377
314	330		110° 23'	~	6.6	91°	-5.8	-12.4		6208.9		-188	+271	1,247,597	915,117
315	0				5.2			-5.2		6216.1	T	0	0	1,247,785	914,846
316	330		291° 58'	+14.3	5.3	88° 40'	+7.7	+2.4		6223.7		+195	-266	1,247,980	914,580
317	660		292° 41'	~	5.9	88° 40'	+15.4	+9.5		6230.8		+397	-527	1,248,182	914,319
BM	854		299° 24' 24"	~	4.0	88° 40'	+19.9	+15.9		6237.2	BM	+590	-617	1,248,375	914,229
1/2	907		292° 41' 55"	~	5.5	88° 40'	+21.1	+15.6		6236.9	1/2	+547	-723	1,248,332	914,123
318	990		293° 03'	~	5.8	88° 40'	+23.0	+17.2		6238.5		+601	-787	1,248,386	914,059
319	1320		293° 27'	~	8.0	88° 40'	+30.7	+22.7		6244.0		+808	-1044	1,248,593	913,802
320	1649		294° 20' 05"	~	10.7	88° 40'	+38.4	+27.7		6249.0	TP	+1029	-1288	1,248,815	913,556
320	1649				14.5	88° 32'	+42.2	+27.7			TP	+1	-2		
	2632		111° 17' 35"	+14.3	12.8	91° 24'	+64.3	+77.1			BS	+1531	-2140		
	2632				12.5	268° 36'	+64.3	+76.8	6326.0		BS	+1	-2		
321	2303		110° 45'	~	11.1	91° 34'	-62.9	-74.0		6252.0		-1323	+1885	1,249,024	913,299

U.S.G.S. Bm 5mt B 1920 ea. 6238

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY			LINE NO.		PAGE			
7.25.83		B. Cotcamp		D. Wrinkle		6834		D.W.			5		23			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
NEVADA		Tippet 4 S.E. - 7 1/2		NEVADA		White Pine								L.O. Davis		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH - LAT.	EAST + WEST - DEP.	COORDINATES		REMARKS
														Y	X	
									6326.0							
322	1974		109° 58'	+14.3	12.4	91° 40'	-57.4	-69.8		6256.2		-1111	+1631	1,749,236	913,045	
323	1648		108° 34'	"	12.7	91° 50'	-52.7	-65.4		6260.6		-894	+1384	1,749,453	912,798	
324	1319		109° 37'	"	12.0	91° 50'	-42.2	-54.2		6271.8		-736	+1095	1,749,611	912,509	
325	990		110° 30'	"	11.0	91° 50'	-31.7	-42.7		6283.3		-565	+813	1,749,782	912,227	
326	660		111° 15'	"	9.1	91° 50'	-21.1	-30.2		6295.8		-384	+537	1,749,963	911,951	
327	330		112° 06'	"	7.0	91° 50'	-10.6	-12.6		6308.4		-196	+266	1,750,151	911,680	↑
328	0				5.2	-		-5.2		6320.8	X	0	0	1,750,342	911,414	Tippet 4 S.E. - 7 1/2
329	330		294° 41'	+14.3	6.3	87° 30'	+14.4	+8.1		6334.1		+208	-257	1,750,555	911,157	Tippet 4 S.W. - 7 1/2
330	660		" "	"	8.0	87° 30'	+28.8	+20.8		6346.8		+415	-513	1,750,762	910,901	↓
331	990		294° 30'	"	10.7	87° 30'	+43.1	+32.4		6358.4		+620	-772	1,750,967	910,642	
332	1316		292° 21'	"	7.1	87° 30'	+57.4	+50.3		6376.3		+786	-1056	1,751,133	910,358	
333	1641		290° 17'	"	8.0	87° 20'	+76.3	+68.3		6394.3		+931	-1351	1,751,278	910,063	
334	1870		297° 09' 45"	"	14.6	87° 40'	+76.1	+61.5			TP	+1237	-1400	1,751,585	910,012	
334	1870				14.5	272° 20'	+76.1	+61.6		6382.6	TP	"	"	"	"	
	1734		172° 26' 49"	+14.3	6.2	89° -	-30.3	-24.1			BS	+1722	+204			
	1734				11.3	88° 50'	-35.3	-24.0	6363.6		BS	"	"			
335	1411		174° 59'	"	7.2	89° -	+24.6	+17.4		6381.0		-1393	-228	1,751,915	909,986	
336	1098		170° 17'	"	8.2	-		+8.2		6355.4		-1094	-88	1,752,214	910,126	
337	782		166° 51'	"	8.6	91° 40'	-22.7	-31.3		6382.3		-782	-16	1,752,526	910,198	
338	494		167° 50'	"	8.8	93° 50'	-32.9	-41.7		6321.9		-494	-18	1,752,814	910,196	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
7.25.83		B. Cotcamp		D. Winkle		6834		D.W.		5		24			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
NEVADA		Tippett 4S.W. - 7 1/2		NEVADA		White Pine								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									6363.6						
339	445		174° 12' 08"	+14.3	10.0	94° 10'	-32.2	-42.2		6321.4		-440	-66	1,253,288	910,178
	224		175° 00'	"	12.2	95° -	-19.4	-31.6		6332.0		-221	-36	1,253,087	910,178
	53		112° 33' 40"	"	4.4	92° 10'	-2.0	-6.4		6357.2	TP	-32	+42	1,253,276	910,256
340	0				5.2	-		-5.2		6358.4	TP	0	0	1,253,308	910,214
341	324		260° 13'	+14.3	7.6	87° 40'	+13.2	+5.6		6369.2		+26	-323	1,253,334	909,891
342	652		254° 42'	"	7.1	88° -	+22.7	+15.6		6379.2		-11	-652	1,253,297	909,562
343	980		252° 27'	"	7.9	88° -	+34.2	+26.3		6389.9		-56	-978	1,253,252	909,236
344	1309		250° 49'	"	11.2	88° -	+45.7	+34.5		6398.1		-111	-1304	1,253,197	908,910
345	1635		252° 05'	"	8.2	88° 16'	+52.3	+44.1		6407.7		-103	-1632	1,253,205	908,582
346	1958		254° 04' 05"	"	12.6	88° 26'	+56.9	+44.3			TP	-56	-1956	1,253,253	908,256
346	1958				12.5	271° 40'	+56.9	+44.4		6408.0	TP	"	"		
	975		100° 18' 11"	+14.3	11.7	91° 30'	+25.5	+32.2			BS	+406	-886		
	975				14.5	91° 20'	+22.7	+32.2	6445.2		BS	"	"		
347	770		117° 08'	"	10.6	91° -	-13.4	-24.0		6421.2		-510	+577	1,253,150	907,945
348	559		137° 14'	"	7.9	-	-	-7.9		6437.3		-491	+266	1,253,169	907,634
349	328		164° 37'	"	11.2	-	-	-11.2		6434.0		-328	+6	1,253,332	907,374
350	0				5.2	-	-	-5.2		6440.0	TP	0	0	1,253,160	907,368
351	328		04° 05'	+14.3	7.0	92° 30'	-14.3	-21.3		6423.9		+311	+103	1,253,921	907,471
Bm	563		17° 00' 59"	"	9.9	92° 30'	-24.5	-34.4		6410.8	Bm	+481	+293	1,254,141	907,661
TP	539		67° 06' 20"	"	4.5	93° -	-28.2	-32.7		6412.5		+502	+197	1,254,162	907,565

U.S.G.S Bm 6m 1980
Elev. 64124

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
7.25.83		B. Cotcamp		D. Wrinkle		6834		DW		5	25			
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER			
NEVADA				NEVADA		White Pine					L.O. Davis			
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									6445.2					
352	647		04° 14'	+14.3	8.1	93°	-33.8	-41.9		6403.3		+613	+206	1,254,273 907,574
353	848		344° 52'	"	9.6	93°	-44.3	-53.9		6391.3		+848	-12	1,254,508 907,356
354	1066		329° 56'	"	7.7	91° 30'	-27.9	-35.6		6409.6		+1026	-290	1,254,686 907,078
355	1325		320° 06' 18"	"	6.3	91°	-23.1	-29.4		6415.8	TP	+1195	-572	1,254,856 906,994
355	1325				10.2	90° 50'	-19.3	-29.5			TP	"	-2	
	1914		93° 55' 17"	+14.3	11.2	91° 30'	+50.1	+61.3	6477.1		BS	+598	-1817	
	1914				11.1	268° 30'	+50.1	+61.2			BS	"	-2	
356	1584		94° 10'	"	8.2	91° 30'	-41.5	-49.7		6427.4		-502	+1502	1,254,953 906,477
357	1258		96° 10'	"	8.6	91° 30'	-32.9	-41.5		6435.6		-440	+1179	1,255,015 906,154
358	937		92° 54'	"	16.5	92° 30'	-40.8	-51.3		6425.8		-277	+895	1,255,178 905,870
359	627		84° 29'	"	9.8	93°	-32.8	-42.6		6434.5		-96	+620	1,255,359 905,595
360	329		66° 16'	"	6.4	92°	-11.5	-17.9		6459.2		+54	+325	1,255,509 905,300
361	0				5.2	-		-5.2		6471.9	A	0	0	1,255,455 904,975
362	329		244° 29'	+14.3	4.2	88°	+11.5	+7.3		4484.4		-64	-323	1,255,391 904,652
363	658		248° 43'	"	6.2	87° 50'	+24.9	+18.7		6495.8		-80	-653	1,255,325 904,322
364	987		250° 24'	"	9.9	87° 50'	+37.3	+27.4		6504.5		-91	-983	1,255,364 903,992
365	1314		252° 42'	"	9.1	88°	+45.8	+36.7		6513.8		-69	-1312	1,255,386 903,663
1P	1493		253° 13' 35"	"	11.0	88°	+52.1	+41.1		6518.2	1P	-64	-1491	1,255,391 903,484 1P T. ROAD north
366	1641		254° 10'	"	12.8	88°	+57.2	+44.4		6521.5		-44	-1640	1,255,411 903,335

u₃ - 1,755,420 x - 903,410

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE							
7.25.83		B. Cotcamp		D. Wrinkle		6834		D.W.		5		26							
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER					
NEVADA		Tippett 4. S.W. - 7 1/2		NEVADA		White Pine								I.O. Davis					
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS	
												LAT.	DEP.	Y	X				
									6477.1										
367	P167		255° 54' 10"	+14.3°	9.7	88° 10'	+62.9	+53.2			TP	+7	-1966	1,255,468	903,007				
367	P167				14.2	88° 62'	+62.5	+53.3		6530.4	TP	"	-2						
	1636		93° 19' 25"	" "	11.8	91° 0'	+28.6	+40.4			BS	+495	-1559						
	1636				11.5	269° -	+28.6	+40.1		6520.7	BS	"	-2						
368	1311		95° 42'	" "	9.2	90° 50'	-19.1	-28.3		6542.4		-448	+1232	1,255,511	902,678				
369	988		99° 07'	" "	8.8	90° 30'	-8.6	-17.4		6553.3		-393	+907	1,255,566	902,353				
370	660		100° 50'	" "	6.8	90° 30'	-5.8	-12.6		6558.1		-280	+598	1,255,679	902,044				
371	330		" "	" "	5.8	90° 30'	-2.9	-8.7		6562.0		-140	+299	1,255,819	901,745				
372	0				5.2	-		-5.2		6565.5	X	0	0	1,255,959	901,446				
373	330		283° 00'	+14.3	6.8	89° 46'	+1.9	-4.9		6565.8		+151	-293	1,256,110	901,153				
374	659		282° 46'	" "	10.7	89° 40'	+3.8	-6.9		6563.8		+300	-587	1,256,259	900,859				
375	989		283° 34'	" "	8.3	89° 40'	+5.8	-2.5		6568.2		+462	-874	1,256,421	900,572				
376	1319		283° 16'	" "	9.1	89° 50'	+3.8	-5.3		6565.4		+610	-1169	1,256,569	900,277				
377	1649		283° 01'	" "	8.8	89° 20'	+19.2	+10.4		6581.1		+757	-1465	1,256,716	899,981				
378	1979		283° 15'	" "	4.8	89° 10'	+28.8	+24.0		6594.7		+915	-1755	1,256,874	899,691				
379	2309		283° 36' 47"	" "	7.6	89° -	+40.3	+32.7			TP	+1081	-2040	1,257,041	899,404				
379	2309				7.5	271° -	+40.3	+32.8		6603.5	TP	"	-2						
	2307		102° 40' 14"	+14.3	14.6	90° 24'	+16.1	+30.7			BS	+1046	-2056						
	2307				14.3	269° 36'	+16.1	+30.4		6634.1	BS		-2						
380	1977		101° 54'	" "	10.1	90° 20'	-11.5	-21.6		6612.5		-873	+1774	1,257,214	899,120				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE							
7.25.83		B. Cotcamp		D. Wrinkle		6834		D W		5		27							
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER					
NEVADA		Tippet 4 S.W. - 7 1/2		NEVADA		White Pine								L.O. Davis					
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS	
												LAT.	DEP.	Y	X				
									6634.1										
381	1647		102° 03'	+14.3	13.7	96° 30'	-11.4	-28.1		6606.0		-731	+1476	1,257,356	898,822				
382	1319		101° 37'	"	10.0	90° 30'	-11.5	-21.5		6612.6		-576	+1186	1,257,511	898,532				
383	990		101° 17'	"	12.0	90° 30'	-8.6	-20.6		6613.5		-428	+893	1,257,659	898,239				
384	660		102° 33'	"	8.0	92° -	-23.0	-31.0		6603.1		-298	+589	1,257,289	897,935				
385	330		102° 43'	"	7.9	92° -	-11.5	-19.4		6614.7		-150	+294	1,257,937	897,640				
386	0				5.2	-		-5.2		6628.9	TP	0	0	1,258,087	897,346				
387	330		281° 22'	+14.3	9.5	89° 20'	+3.8	-5.7		6628.4		+143	-297	1,258,230	897,049				
Bm	318		319° 58' 54"	"	9.5	91° 50'	-12.1	-21.6		6612.5	Bm	+340	-166	1,258,427	897,180	u.s. GS Bm 7mtg 1980			
388	652		286° 13'	"	11.5	-		-11.5		6622.6		+331	-562	1,258,418	896,784	Sta. 6613.9			
389	975		289° 33'	"	4.3	89° -	+17.0	+12.7		6646.8		+543	-810	1,258,630	896,536				
390	1305		289° 43'	"	5.9	89° -	+22.8	+16.9		6651.0		+730	-1082	1,258,817	896,264				
391	1634		289° 20' 46"	"	5.8	89° -	+28.5	+22.7			TP	+905	-1360	1,258,992	895,984				
391	1634				5.6	211° -	+28.5	+22.9	+22.8	6656.9	TP		-2						
	1637		112° 18' 48"	+14.3	2.9	91° -	+28.6	+31.5	66688.4		BS	+976	-1314						
	1637				12.4	90° 40'	+19.0	+31.4			BS		-2						
392	1311		114° 10'	"	11.4	91° -	-22.9	-34.3		6654.1		-816	+1026	1,259,152	895,694				
393	987		117° 16'	"	10.9	91° 10'	-20.1	-31.0		6657.4		-655	+738	1,259,313	895,406				
394	660		119° 30'	"	11.3	91° 40'	-19.2	-30.5		6657.9		-457	+476	1,259,511	895,144				
395	330		120° 55'	"	5.8	91° 40'	-9.6	-15.4		6673.0		-234	+232	1,259,734	894,900				
396	0				5.2	-		-5.2		6683.2	TP	0	0	1,259,968	894,668				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
7.25.83		B. Cotcamp		D. Wainkle		6834		D.W.		5		28			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
NEVADA		Tippet 4 S.W. - 1/2		NEVADA		White Pine								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									6688.4						
397	328		294° 57'	+14.3	6.0	89° 40'	+1.9	-4.1		6684.3		+208	-254	1,760,176	894,414
398	656		287° 54'	" "	10.0	89° 40'	+3.8	-6.2		6682.2		+369	-543	1,760,232	894,125
399	975		284° 23'	" "	11.9	89° 40'	+5.7	-6.2		6682.2		+468	-855	1,760,436	893,813
400	1275		277° 30'	" "	11.3	89° 30'	+11.1	-0.2		6688.2		+473	-1184	1,760,441	893,484
401	1594		273° 51'	" "	10.9	89° 26'	+18.5	+7.6		6696.0		+497	-1515	1,760,465	893,153
402	1916		271° 33' 14"	" "	8.3	89° 10'	+27.9	+19.6		6708.0	TP	+523	-1843	1,760,491	892,823
402	1916				13.9	89° -	+33.4	+19.5			TP				
	2216		114° 27' 68"	+14.3	5.0	91° -	+38.7	+43.7	6751.7		BS	+1387	-1728		
	2216				11.4	90° 50'	+32.2	+43.6			BS				
403	1916		118° 10'	" "	6.6	90° 50'	-27.9	-34.5		6717.2		-1294	+1413	1,760,584	892,507
404	1601		121° 07'	" "	8.1	90° 50'	-23.3	-31.4		6720.3		-1140	+1124	1,760,738	892,218
405	1271		120° 48'	" "	6.7	91° 30'	-33.3	-40.0		6711.7		-900	+897	1,760,978	891,991
406	945		118° 25'	" "	8.8	92° 40'	-43.9	-52.7		6699.0		-641	+694	1,761,237	891,788
407	628		111° 35'	" "	12.0	92° 24'	-26.3	-38.3		6713.4		-368	+509	1,761,510	891,603
408	327		94° 39'	" "	5.9	91° 40'	-9.5	-15.4		6736.3		-106	+309	1,761,772	891,403
409	0				5.2	-		-5.2		6746.5	TP	0	0	1,761,878	891,094
410	330		265° 23'	+14.3	3.2	88° 50'	+6.7	+3.5		6755.2		+56	-325	1,761,934	890,769
411	660		" "	" "	9.8	88° 50'	+13.4	+3.6		6755.3		+111	-651	1,761,989	890,443
412	989		266° 18'	" "	9.9	88° 50'	+20.1	+10.2		6761.9		+182	-972	1,762,060	890,122
413	1313		269° 20'	" "	11.0	88° 50'	+26.7	+15.7		6767.4		+309	-1276	1,762,187	889,818

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
7-26-83		B. Cotcamp		D. Wrinkle		6834		P. W.		5		29			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
NEVADA		Tippet #4 S.W. -7 1/2'		NEVADA		White Pine								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS A TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									6251.7						y - 1,762,200 x - 889,755
414	1376		269° 15' 17"	+14.3	11.1	88° 50'	+28.0	+16.9		6768.6	414	+322	-1337	1,762,200	889,755
Bm	1499		272° 45' 10"	+14.6	8.8	89° -	+26.2	+17.4			Bm	+447	-1431	1,762,318	889,660
Bm	1499				13.0	88° 50'	+30.5	+17.5		6769.2	Bm				
	2421		95° 14' 36"	" "	4.1	91° -	+42.3	+46.4			BS	+822	-2277		U.S.G.S Bm ELEV. 6770.7 8-18-1980
	2421				3.9	269° -	+42.3	+46.2	+46.3 6873.5		BS	-1	"		
414	2295		98° 37'	" "	7.3	90° 50'	-33.4	-40.7		6774.8		-905	+2109	1,762,234	889,493
415	1911		100° 16'	" "	8.1	90° 50'	-28.7	-36.8		6778.7		-829	+1788	1,762,310	889,172
416	1643		101° 23'	" "	7.1	90° 50'	-23.9	-31.0		6784.5		-720	+1477	1,762,419	888,861
417	1320		103° 47'	" "	6.3	90° 50'	-19.2	-25.5		6790.0		-627	+1161	1,762,512	888,545
418	990		" "	" "	6.3	90° 50'	-14.4	-20.7		6794.8		-471	+871	1,762,668	888,255
419	660		" "	" "	7.8	90° 50'	-9.6	-17.4		6798.1		-314	+581	1,762,825	887,965
420	330		" "	" "	6.3	90° 50'	-4.8	-11.1		6804.4		-157	+290	1,762,982	887,674
421	0				5.2	-		-5.2		6810.3	A	0	0	1,763,139	887,384
422	330		283° 36'	+14.6	5.2	88° 50'	+6.7	+1.5		6817.0		+156	-291	1,763,295	887,093
423	660		283° 24'	" "	7.9	88° 50'	+13.4	+5.5		6821.0		+310	-583	1,763,449	886,801
424	990		283° 12'	" "	11.1	89° 10'	+14.4	+3.3		6818.8		+462	-876	1,763,601	886,508
425	1320		283° 09'	" "	9.3	89° 10'	+19.2	+9.9		6825.4		+615	-1168	1,763,754	886,216
426	1649		282° 43'	" "	7.5	89° 10'	+24.0	+16.5		6832.0		+757	-1465	1,763,896	885,919
427	1979		281° 58'	" "	12.3	89° 06'	+31.1	+18.8		6834.3		+885	-1770	1,764,024	885,614
428	2309		281° 25'	" "	14.8	89° 10'	+33.6	+18.8		6834.3		+1013	-2075	1,764,152	885,309

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
7-26-83		B. Cotcamp		D. Wrinkle		6834		D W		5	30			
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER			
NEVADA		Tipton 4 S.W. - 7 1/2		NEVADA		White Pine					L.O. Davis			
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
			0						6815.5					
429	2638		281° 05'	+14.6	16.7	89° 10'	+38.4	+21.7		6832.2		+1143	-2377	1.764,282 885,007
430	2967		280° 48' 32"	" "	13.7	89° 10'	+43.2	+29.5		6845.1	TP	+1273	-2680	1.764,411 884,705
430	2967				13.5	270° 50'	+43.2	+29.7	FA.63		TP	-	+1	
	978		85° 28' 05"	+14.6	13.0	89° -	-77.1	-4.1		6841.0	BS	+171	-963	
	978			+14.6		88° 54'	-18.8	-4.2			BS	-	+1	
431	658		79° 48'	" "	7.2	88° 40'	+15.3	+8.1		6849.1		-50	+656	1.764,531 884,399
432	330		78° 03'	" "	6.6	88° 10'	+10.6	+4.0		6845.0		-15	+330	1.764,566 884,073
433	0				5.2	-		-5.2		6835.8	T	0	0	1.764,581 883,743
434	330		258° 35'	+14.6	8.0	92° -	-11.5	-19.5		6821.5		+18	-329	1.764,599 883,414
435	660		" "	" "	16.4	92° -	-23.0	-33.4		6807.6		+37	-659	1.764,618 883,084
436	990		" "	" "	10.8	92° -	-34.5	-45.3		6795.7		+55	-988	1.764,636 882,755
437	1320		" "	" "	4.7	92° -	-46.0	-50.7		6790.3		+73	-1318	1.764,654 882,425
438	1649		258° 23' 41"	" "	6.5	91° 50'	-52.8	-59.3		6781.7	TP	+86	-1646	1.764,667 882,098
438	1649		" "	" "	11.3	91° 40'	-48.0	-59.3			TP		+1	
	3745		84° 46' 12"	+14.6	12.4	88° 50'	-76.3	-63.9		6772.8	BS	+610	-3694	
	3745		" "	+12.3		271° 10'	-76.3	-64.0			BS		+1	
439	3416		85° 17'	" "	7.3	89° -	+59.6	+52.3		6770.1		-586	+3365	1.764,691 881,770
440	3088		85° 55'	" "	6.1	89° 08'	+46.7	+40.6		6758.4		-564	+3036	1.764,713 881,441
441	2760		86° 41'	" "	11.9	89° 10'	+40.1	+28.2		6746.0		-540	+2707	1.764,737 881,112
442	2434		87° 43'	" "	12.6	89° 20'	+28.3	+15.7		6733.5		-519	+2378	1.764,758 880,783

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
7-26-83		B. Cotcamp		D. Wrinkle		6834		D.W.		5		31			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
NEVADA		Tippet # 4 S.W. - 7 1/2		NEVADA		White Pine								K.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH -	EAST + WEST -		Y
									6712.8						
443	2108		89° 08'	+14.6	10.1	89° 20'	+24.5	+14.4		6732.2		-500	+2048	1,764,777	880,453
444	1785		91° 06'	"	10.2	89° 30'	+15.6	+5.4		6723.2		-483	+1718	1,764,794	880,123
445	1463		93° 25'	"	10.9	89° 30'	+12.8	+1.9		6719.7		-453	+1391	1,764,824	879,796
446	1149		97° 50'	"	8.3	89° 50'	+3.3	-5.0		6712.8		-438	+1062	1,764,839	879,467
447	835		103° 40'	+14.6	10.2	90° 10'	-2.4	-12.6		6705.2		-395	+735	1,764,882	879,140
Bm	776		98° 57' 50"	"	11.8	90° 10'	-2.3	-14.1		6703.7	Bm	-310	+711	1,764,967	879,116
448	514		99° 55'	"	8.8	91° 50'	-16.4	-25.2		6692.6		-213	+468	1,765,064	878,823
IF	345		102° 18' 29"	"	10.9	93° -	-18.0	-28.9		6688.9	IF	-156	+308	1,765,121	878,713
449	187		102° 40'	"	7.3	93° 10'	-10.3	-17.6		6700.2		-86	+166	1,765,191	878,571
X	0				5.2	-		-5.2		6712.6	X	0	0	1,765,277	878,405
450	139		321° 34'	+14.6	9.5	93° 10'	-7.7	-17.2		6700.6		+127	-56	1,765,404	878,349
451	460		313° 03'	"	9.5	94° 10'	-33.3	-42.8		6675.0		+389	-246	1,765,666	878,159
452	779		310° 07'	"	8.7	94° 20'	-58.7	-67.4		6650.4		+636	-450	1,765,913	877,955
453	1095		304° 14'	"	12.3	93° 50'	-73.0	-85.3		6632.5		+824	-721	1,766,101	877,684
#1	1185		303° 04' 48"	+14.6	9.2	93° 50'	-79.0	-88.2		6629.6	#1	+876	-798	1,766,153	877,607
454	1414		300° 38'	"	6.6	93° 50'	-94.3	-100.9		6616.9		+1004	-996	1,766,281	877,409
455	1713		295° 31'	"	8.4	93° 50'	-114.3	-122.7		6595.1		+1104	-1310	1,766,381	877,095
456	2027		292° 27'	"	7.9	93° 40'	-129.4	-137.3		6580.5		+1221	-1618	1,766,498	876,787
457	2351		290° 38'	"	7.1	93° 30'	-143.2	-150.3		6567.5		+1356	-1920	1,766,633	876,485
458	2675		289° 28'	"	12.0	93° -	-139.8	-151.8		6566.0		+1498	-2216	1,766,775	876,189

9-78 1980
U.S.G.S. Bm Elev. 6705.9

y - 1765.100 x - 878,800
IF - ROAD WEST

y - 1766.150 x - 877,720
#1 - ROAD SOUTH

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
7-26-83		B Cotcamp		D Wrinkle		6834		DW		5	32						
AREA		TOPO MAP	STATE	COUNTY	TWP	RANGE	PPM	PARTY MANAGER									
Nevada		Tippet# 4 S.W. - 7 1/2	Nevada	White Pine				L.O. Davis									
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS	
												LAT.	DEP.	Y	X		
									6272.8								
459	2992		287° 38'	+14.6	10.5	92° 40'	-139.0	-149.5		6568.3		+1596	-2531	1.766,873	875,874	Tippet# 4 S.W. - 7 1/2	↑
460	3301		285° 33' 29"	" "	14.1	92° 30'	-144.0	-158.1			TP	+1657	-2851	1.766,934	875,555	Tippet# 3 S.E. - 7 1/2	
460	3301				14.0	267° 30'	-144.0	-158.0		6559.8	TP		-1				↓
	1954		71° 41' 41"	" "	+9.8	88° 30'	-51.1	-41.3	-41.4		BS	-126	-1949				
	1954				+14.2	88° 22'	-55.7	-41.5		6518.4	BS		+1				
461	1634		69° 03'	+14.6	6.9	88° 30'	+42.8	+35.9		6554.3		+181	+1624	1.766,989	875,231		
462	1314		65° 58'	" "	11.0	88° 30'	+34.4	+23.4		6541.8		+215	+1296	1.767,023	874,903		
463	988		63° 45'	" "	8.8	88° 30'	+25.9	+17.1		6535.5		+200	+968	1.767,008	874,575		
464	660		62° 08'	" "	8.8	88° 30'	+17.3	+8.5		6526.9		+151	+642	1.766,959	874,249	Tippet# 4 S.W. - 7 1/2	↑
465	330		62° 08'	" "	5.2	88° 30'	+8.6	+3.4		6521.8		+76	+321	1.766,884	873,928	Tippet# 3 S.E. - 7 1/2	
466	0				5.2	-		-5.2		6513.2	X	0	0	1.766,808	873,607		↓
467	330		243° 02'	+14.6	8.0	91° 20'	-7.7	-15.7		6502.7		-71	-322	1.766,737	873,285		
468	659		244° 21'	" "	8.2	91° 20'	-15.3	-23.5		6494.9		-126	-647	1.766,682	872,960		
469	986		240° 55'	" "	9.9	91° 20'	-22.9	-32.8		6485.6		-247	-955	1.766,561	872,652		
470	1314		239° 30'	" "	7.1	91° 30'	-34.4	-41.5		6476.9		-360	-1264	1.766,448	872,313		
471	1644		238° 35'	" "	6.3	91° 30'	-43.0	-49.3		6469.1		-476	-1574	1.766,332	872,033		
472	1973		237° 48' 40"	" "	10.5	91° 20'	-45.9	-56.4			TP	-596	-1880	1.766,212	871,728		
472	1973				10.4	268° 40'	-45.9	-56.3		6462.1	TP		+1				
	1319		55° 24' 50"	" "	+8.4	88° 30'	-34.5	-26.1		6436.0	BS	-451	-1239				
	1319				+12.2	88° 20'	-38.4	-26.2			BS		+1				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE		
7-26-83		B Cotcamp		D Winkle		6834		DW		5		33		
AREA		TOPO MAP		STATE		COUNTY		RANGE		PPM		PARTY MANAGER		
Nevada		Tippet 3 S.E. - 7 1/2		Nevada		White Pine						L.O. Davis		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									6436.0					
473	989		56° 13'	+14.6	8.0	88° 30'	+25.9	+17.9		6453.9		+325	+934	1.766,086 871,424
474	660		57° 06'	" "	7.0	88° 30'	+12.3	+10.3		6446.3		+207	+627	1.765,968 871,117
475	330		57° 06'	" "	6.1	88° 30'	+8.6	+2.5		6438.5		+104	+313	1.765,865 870,803
476	0				5.2	-	-	-5.2		6430.8	X	0	0	1.765,761 870,490
477	330		227° 22'	+14.6	9.2	91° 30'	-8.6	-13.9		6422.1		-155	-291	1.765,606 870,199
Bm	305		245° 33' 53"	" "	4.2	91° 30'	-8.0	-12.2		6423.8	Bm	-52	-301	1.765,709 870,189
Y	289		226° 33' 23"	" "	5.2	91° 30'	-7.6	-12.8		6423.2		-139	-253	1.765,622 870,237
478	655		231° 27'	" "	7.7	91° 30'	-17.1	-24.8		6411.2		-266	-599	1.765,495 869,891
479	918		245° 26' 53'	" "	12.4	91° 50'	-29.4	-41.8		6394.2	+P	-159	-904	1.765,602 869,587
479	918				15.1	91° 40'	-26.7	-41.8			+P		"	
	1817		66° 08' 01"	+14.6	+13.2	87° 10'	-89.8	-76.6	6317.6		BS	-292	-1791	
	1817				+13.1	222° 50'	-89.8	-76.7			BS		"	
480	1531		60° 34'	" "	10.9	87° 40'	+62.3	+51.4		6369.0		+392	+1480	1.765,702 869,227
481	1239		54° 12'	" "	6.7	88° 30'	+32.4	+25.7		6343.3		+448	+1155	1.765,758 868,952
482	974		44° 10'	" "	11.4	88° 10'	+31.1	+19.7		6337.3		+505	+833	1.765,815 868,630
483	646		43° 29'	" "	8.9	87° 40'	+26.3	+17.4		6335.0		+342	+548	1.765,652 868,345
484	318		38° 15'	" "	7.1	87° 40'	+12.9	+5.8		6323.4		+192	+253	1.765,502 868,050
X	0				5.2	-	-	-5.2		6312.4	X	0	0	1.765,310 867,797
485	127		315° 08'	+14.6	5.3	86° -	+8.8	+3.5		6321.1		+110	-64	1.765,420 867,733
486	379		260° 13'	" "	2.1	89° 20'	+4.4	-2.7		6314.9		+32	-378	1.765,342 867,419

10-78 1980
U.S.G.S. Bm Elev. 6425.6

OFFLINE IN WASH

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
7.26.83		B. Cotcamp		D. Wrinkle		6834		DW		5		34			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
NEVADA		Tippet 3 SE. - 7 1/2'		NEVADA		White Pine								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									6317.6						
487	703		256° 18'	+14.6	12.3	90° 10'	-2.0	-14.3		6303.3		+11	-703	1,765.321	867,094
488	1028		253° 33'	"	8.9	90° 20'	-6.0	-14.9		6302.7		-33	-1027	1,765.277	866,770
489	1356		252° 26'	"	12.0	89° 30'	+11.8	-0.2		6317.4		-70	-1354	1,765.240	866,443
490	1680		254° 22' 30"	"	8.6	89° 10'	+24.4	+15.8		6333.4	TP	-30	-1680	1,765.280	866,118
490	1680			"	13.5	89° -	+29.3	+15.8			TP				
	3295		77° 52' 11"	" +	13.1	88° 50'	-67.1	-54.0	-54.1		BS	+142	-3291		
	3295			" +	12.9	271° 10'	-67.1	-54.2	-54.1	6279.3	BS				
491	2969		78° 49'	+14.6	13.0	88° 50'	+60.4	+47.4		6326.7		-177	+2964	1,765.245	865,792
492	2640		78° 55'	"	12.1	88° 50'	+53.8	+41.7		6321.0		-162	+2635	1,765.260	865,463
493	2310		79° 05'	"	12.0	88° 50'	+47.0	+35.0		6314.3		-148	+2305	1,765.274	865,133
494	1980		79° 10'	"	10.9	88° 50'	+40.3	+29.4		6308.7		-130	+1976	1,765.292	864,804
495	1650		79° 34'	+14.6	9.8	88° 50'	+33.6	+23.8		6303.1		-120	+1646	1,765.302	864,474
496	1320		80° 12'	"	10.9	88° 50'	+26.9	+16.0		6295.3		-110	+1315	1,765.312	864,143
497	990		80° 07'	"	12.0	88° 50'	+20.2	+8.2		6287.5		-81	+987	1,765.341	863,815
498	660		80° 05'	"	7.0	88° 50'	+13.4	+6.4		6285.7		-54	+658	1,765.368	863,486
499	330		81° 06'	"	5.4	88° 50'	+6.7	+1.3		6280.6		-33	+328	1,765.389	863,156
500	0				5.2	-		-5.2		6274.1	X	0	0	1,765.422	862,828
501	330		257° 50'	+14.6	5.7	91° 10'	-6.7	-12.4		6266.9		+14	-330	1,765.436	862,498
502	660		257° 29'	"	6.9	91° 10'	-13.4	-20.3		6259.0		+24	-660	1,765.446	862,168
503	990		257° 02'	"	8.4	91° 10'	-20.2	-28.6		6250.7		+28	-990	1,765.450	861,838

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
7-28-83		B. Cotcamp		D. Winkle		6834		D.W.		5	35			
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER			
NEVADA		Tippett 3 S.E. - 7 1/2'		NEVADA		White Pine					L.O. Davis			
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									6279.3					
504	1320		257° 11'	+14.6	10.0	91° 10'	-26.9	-36.9		6242.4		+41	-1319	1.765.463 861,509
505	1650		257° 24'	" "	11.6	91° 10'	-33.6	-45.2		6234.1		+58	-1649	1.765.480 861,179
506	1980		257° 30'	" "	7.9	91° 20'	-46.1	-54.0		6225.3		+73	-1979	1.765.495 860,849
507	2310		257° 53'	" "	9.1	91° 20'	-53.7	-62.8		6216.5		+100	-2308	1.765.522 860,520
508	2640		" "	" "	10.7	91° 20'	-61.4	-72.1		6207.2		+114	-2638	1.765.536 860,190
509	2970		257° 51' 36"	" "	12.0	91° 20'	-69.1	-81.1	BS	6198.3	TP	+133	-2966	1.765.555 859,863
509	2970				11.8	268° 40'	-69.1	-80.9	BS		TP			
	2641		79° 21' 53"	+14.6	7.8	88° 40'	-61.5	-53.7	BS		BS	+183	-2634	
	2641			+7.6		271° 20'	-61.5	-53.9	BS	6144.5	BS			
510	2310		79° 22'	" "	9.3	88° 40'	+53.7	+44.4		6188.9		-160	+2304	1.765.578 859,534
Bm	2251		77° 02' 36"	" "	9.0	88° 40'	+52.4	+43.4		6187.9	Bm	-65	+2250	1.765.673 859,480
511	1980		79° 22'	" "	9.8	88° 40'	+46.1	+36.3		6180.8		-137	+1975	1.765.601 859,205
512	1650		79° 28'	+14.6	9.3	88° 40'	+38.4	+29.1		6173.6		-117	+1646	1.765.621 858,876
513	1320		79° 12'	" "	8.5	88° 40'	+30.7	+22.2		6166.7		-87	+1317	1.765.651 858,547
514	990		79° 03'	" "	6.7	88° 40'	+23.0	+16.3		6160.8		-63	+988	1.765.675 858,218
515	660		" "	" "	4.9	88° 40'	+15.4	+10.5		6155.0		-42	+659	1.765.696 857,889
516	330		" "	" "	4.8	88° 40'	+7.7	+2.9		6147.4		-21	+329	1.765.717 857,559
517	0		" "	" "	5.2	" "	" "	-5.2		6139.3	TP	0	0	1.765.738 857,230
518	330		259° 21'	+14.6	5.9	91° 20'	-7.7	-13.6		6130.9		+23	-329	1.765.761 856,901
519	660		" "	" "	7.0	91° 20'	-15.4	-22.4		6122.1		+47	-658	1.765.785 856,572

11-11-83 1980
u.s.g.s Bm ELEV 6189.7

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
7.28.83		B. Potcamp		D. Wrinkle				D.W.				36			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
NEVADA		Tippet 3S. -7 1/2'		NEVADA		Wink Pine									
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
									6144.5						
520	990		258° 58'	+14.6	9.0	91° 20'	-23.0	-32.0		6112.5		+62	-988	1,765,800	854,242
521	1320		258° 32'	" "	11.3	91° 20'	-30.7	-42.0		6102.5		+72	-1318	1,765,810	855,912
522	1650		258° 25'	" "	8.3	91° 30'	-43.2	-51.5		6093.0		+87	-1648	1,765,825	855,582
523	1980		258° 09'	" "	8.0	91° 30'	-51.8	-59.8		6084.7		+95	-1978	1,765,833	855,252
524	2310		258° 23'	" "	8.2	91° 30'	-60.5	-68.7		6025.8		+120	-2307	1,765,858	854,923
525	2639		258° 19' 48"	" "	8.3	91° 30'	-69.1	-77.4			TP	+135	-2635	1,765,873	854,596
525	2639				8.2	268° 30'	-61.9	-77.3		6067.2	TP		+		
	2309		80° 53' 42"	+14.6	6.1	88° 50'	-47.0	-40.9	6026.3		BS	+221	-2298		
	2309			+	12.7	88° 40'	-53.7	-41.0			BS		+		
526	1980		80° 51'	" "	7.6	88° 50'	+40.3	+32.7		6059.0		-188	+1971	1,765,906	854,270
527	1650		80° 17'	" "	8.4	88° 50'	+33.6	+25.2		6051.5		-140	+1644	1,765,954	853,943
528	1320		79° 24'	" "	5.7	88° 50'	+26.9	+21.2		6047.5		-92	+1317	1,766,002	853,616
529	990		78° 33'	" "	7.7	88° 40'	+23.0	+15.3		6041.6		-54	+989	1,766,040	853,288
530	660		" "	" "	6.8	88° 40'	+15.4	+8.6		6034.9		-36	+659	1,766,058	852,958
531	330		79° 40'	" "	6.5	88° 40'	+2.7	+1.2		6027.5		-25	+329	1,766,069	852,628
532	0				5.2	-		-5.2		6021.1	T	0	0	1,766,094	852,299
533	330		260° 06'	+14.6	6.6	91° 20'	-7.7	-14.3		6012.0		+27	-329	1,766,121	851,970
534	660		261° 09'	" "	4.7	91° 20'	-15.4	-20.1		6006.2		+66	-657	1,766,160	851,642
535	990		260° 23'	" "	7.3	90° 40'	-11.5	-18.8		6007.5		+86	-986	1,766,180	851,313
536	1320		259° 54'	" "	6.1	96° 40'	-15.4	-21.5		6004.8		+104	-1316	1,766,198	850,983

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
7-28-83		B. Cotcamp		D. Wrinkle		6834		DW		5		37			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
NEVADA		Tippa 3 S.E. - 7 1/2'		NEVADA		White Pine								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT:	EAST + WEST - DEP.		Y
									60263						
537	1650		259° 29'	+14.6	8.2	90° 40'	-19.2	-27.4		5998.9		+117	-1646	1,766,211	850,653
538	1980		259° 21'	" "	6.9	90° 40'	-23.0	-29.9		5996.4		+136	-1975	1,766,230	850,324
539	2310		259° 19'	" "	7.9	90° 40'	-26.9	-34.8		5991.5		+158	-2305	1,766,252	849,994
540	2640		259° 11' 24"	" "	9.4	90° 40'	-30.7	-40.1			TP	+174	-2634	1,766,268	849,666
540	2640				9.3	269° 20'	-30.7	-40.0		5986.3	TP		+1		
	2311		77° 51' 13"	" +	12.1	89° 10'	-33.6	-21.5	21.4		BS	+99	-2309		
	2311			+	11.9	270° 50'	-33.6	-21.7	5964.7		BS		+1		
541	1980		77° 50'	+14.6	9.3	89° 10'	+28.8	+19.5		5984.2		-84	+1978	1,766,283	849,336
542	1650		77° 45'	" "	8.2	89° 10'	+24.0	+15.8		5980.5		-68	+1649	1,766,299	849,007
543	1320		" "	" "	6.8	89° 10'	+19.2	+12.4		5977.1		-54	+1319	1,766,313	848,677
544	990		77° 40'	" "	5.2	89° 10'	+14.4	+9.2		5973.9		-39	+989	1,766,328	848,347
Bm	755		70° 20' 10"	" "	3.2	89° 10'	+11.0	+7.8		5972.5	Bm	+67	+752	1,766,434	848,110
545	660		77° 40'	" "	9.0	88° 50'	+13.4	+4.4		5969.1		-26	+659	1,766,341	848,017
546	330		" "	" "	8.7	88° 50'	+6.7	-2.0		5962.7		-13	+330	1,766,354	847,688
547	0				5.2	-		-5.2		5959.5	TP	0	0	1,766,367	847,358
548	330		257° 13'	+14.6	8.8	90° 50'	-4.8	-13.6		5951.1		+10	-330	1,766,377	847,028
549	660		" "	" "	9.9	90° 50'	-9.6	-19.5		5945.2		+21	-660	1,766,388	846,698
550	990		" "	" "	8.8	90° 50'	-14.4	-23.2		5941.5		+3	-990	1,766,398	846,368
551	1320		256° 59'	" "	7.2	90° 50'	-19.2	-26.4		5938.3		+36	-1320	1,766,403	846,038
552	1650		256° 52'	" "	7.1	90° 50'	-24.0	-31.1		5933.6		+42	-1649	1,766,409	845,209

12-10-1980
U.S.G.S. Bm Elev. 5973.6

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
7-28-83		B. Cotcamp		D. Wrinkle		6874		DU				38				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
NEVADA		Tippet 3 S.E. - 7 1/2'		NEVADA		White Pine										
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
									5964.7							
553	1980	1980	257° 01'	+14.6	6.8	90° 50'	-28.8	-35.6		5929.1		+56	-1979	1,766,423	845,379	
554	2310	2310	257° 07'	" "	6.8	90° 50'	-33.6	-40.4		5924.3		+69	-2309	1,766,436	845,049	
555	2640		257° 15' 29"	" "	13.6	90° 40'	-30.7	-44.3	-41.2	5920.5	TP	+86	-2638	1,766,453	844,721	
555	2640				13.4	269° 20'	-30.7	-44.1		TP			+1			
	2636		78° 54' 22"	" "	9.7	89° 20'	-30.7	-21.0	-5899.5		BS	+161	-2631			
	2636				9.6	70° 40'	-30.7	-21.1		BS			+1			
556	2306		79° 05'	+14.6	11.9	89° 20'	+26.8	+14.9		5914.4		-148	+2301	1,766,466	844,392	
557	1977		79° 30'	" "	8.1	89° 30'	+12.3	+9.2		5908.7		-141	+1972	1,766,473	844,063	
558	1647		79° 40'	" "	9.1	89° 30'	+14.4	+5.3		5904.8		-123	+1642	1,766,471	843,733	
559	1317		79° 21'	" "	12.0	89° 30'	+11.5	-0.5		5899.0		-91	+1314	1,766,523	843,405	
560	989		77° 59'	" "	10.6	90° 20'	-5.8	-16.4		5883.1		-45	+988	1,766,569	843,079	
YY	922		77° 52' 49"	" "	10.1	90° 20'	-5.4	-15.5		5884.0	YY	-40	+921	1,766,574	843,012	YY - ROAD
561	660		77° 07'	" "	17.3	-	-	-17.3		5882.2		-20	+660	1,766,594	842,751	
562	330		77° 46'	" "	8.3	89° 20'	+2.8	-4.5		5895.0		-14	+330	1,766,600	842,421	
563	0				5.2	-	-	-5.2		5894.3	X	0	0	1,766,614	842,091	
564	330		263° 20'	+14.6	5.0	91° -	-5.8	-10.8		5888.7		+46	-327	1,766,660	841,767	
565	660		" "	" "	5.2	91° -	-11.5	-16.7		5882.8		+91	-654	1,766,705	841,437	
566	990		263° 33'	" "	5.4	91° -	-17.3	-22.7		5876.8		+140	-980	1,766,754	841,111	Tippet 3 S.E. - 7 1/2'
567	1320		263° 51'	" "	6.1	91° -	-23.0	-29.1		5870.4		+194	-1306	1,766,808	840,785	Tippet 3 S.W. - 7 1/2'
568	1650		" "	" "	6.9	91° -	-28.8	-35.7		5863.8		+242	-1632	1,766,856	840,459	↓

1,766,650 x - 842,995

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
7.28.83		B. Cotcamp		D. Wrinkle		6834		DW		5		39			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
NEVADA		Tippet# 3 S.W. - 1/2		NEVADA		White Pine								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									5899.5						
569	1980		263° 48'	+14.6	6.7	91° -	-34.6	-41.3		5858.2		+289	-1959	1.766,903	840,132
570	2310		263° 43'	" "	6.8	91° -	-40.3	-47.1		5852.4		+334	-2286	1.766,948	839,805
571	2640		263° 49'	" "	6.0	91° -	-46.1	-52.1		5847.4		+386	-2612	1.767,000	839,479
572	2970		264° 14'	" "	12.1	90° 52'	-44.9	-57.0		5842.5		+456	-2935	1.767,070	839,156
573	3301		264° 05' 20"	" "	10.9	90° 50'	-48.0	-58.9		5840.8	TP	+499	-3263	1.767,113	838,829
573	3301				10.6	288° 16'	-48.0	-58.6	5823		TP		+1		
	2614		73° 26' 24"	+14.6	15.0	88° 40'	-60.8	-45.8	5795.0		BS	-89	-2612		
	2614			+	14.9	271° 20'	-60.8	-45.9			BS		+1		
574	2287		72° 23'	" "	7.1	88° 50'	+46.6	+39.5		5834.5		+120	+2284	1.767,144	838,502
575	1962		70° 46'	" "	6.9	88° 50'	+39.9	+33.0		5828.0		+158	+1956	1.767,182	838,774
576	1640		68° 27'	" "	10.1	88° 40'	+38.1	+28.0		5823.0		+198	+1628	1.767,222	837,846
577	1318		65° 41'	" "	8.4	88° 40'	+30.7	+22.3		5817.3		+222	+1299	1.767,246	837,517
578	990		64° 17'	" "	6.7	88° 40'	+23.0	+16.3		5811.3		+191	+971	1.767,215	837,189
579	660		" "	" "	8.6	88° 30'	+17.3	+8.7		5803.7		+127	+648	1.767,151	836,866
580	330		64° 58'	" "	7.0	88° 30'	+8.6	+1.6		5796.6		+60	+325	1.767,084	836,543
581	0				5.2	-	-	-5.2		5789.8	X	0	0	1.767,024	836,288
582	330		247° 52'	+14.6	5.2	91° -	-5.8	-11.0		5784.0		-43	-327	1.766,981	835,891
583	660		248° 26'	" "	5.9	91° -	-11.5	-17.4		5772.6		-80	-655	1.766,944	835,563
584	990		250° 00'	" "	7.2	90° 50'	-14.4	-21.6		5773.4		-93	-986	1.766,931	835,232
585	1316		252° 12'	" "	7.0	90° 50'	-19.1	-26.1		5768.9		-73	-1314	1.766,951	834,904

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
7-28-83		B. Cotcamp		D. Wrinkle		6834		D.W.		5		40			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
NEVADA		Tipton 3. S.W. 7 1/2		NEVADA		White Pine								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									5795.0						
586	1624		254° 26'	+14.6	8.9	90° 30'	-14.2	-23.1		5771.9		+29	-1624	1.767,053	834,594
587	1900		262° 18'	"	5.0	90° 30'	-16.6	-21.6		5773.4		+228	-1886	1.767,252	834,332
588	2160		268° 01'	"	6.2	90° 30'	-18.9	-25.1		5769.9		+472	-2108	1.767,496	834,110
589	2463		270° 57' 35"	"	6.6	90° 20'	-14.3	-20.9		5774.2	TP	+661	-2373	1.767,685	833,846
589	2463		"	"	6.4	269° 40'	-14.3	-20.7			TP	"	"		
	1969		103° 57' 16"	+14.6	9.5	-	-	+19.5		5783.7	BS	+941	-1730		
	1969		"	+9.4		270° -	-	+9.4			BS	"	"		
590	1645		105° 49'	"	6.9	-	-	-6.9		5776.8		-833	+1419	1.767,773	833,536
591	1315		106° 50'	"	5.3	-	-	-5.3		5778.4		-686	+1122	1.767,940	833,239
592	986		106° 20'	"	6.0	-	-	-6.6		5777.7		-507	+846	1.768,119	832,963
593	657		104° 00'	"	8.7	TH	-3.3	-12.0		5771.7		-315	+577	1.768,311	832,694
594	380		95° 43' 24"	"	5.0	-	-	-5.4		5778.7	u.E.	-132	+356	1.768,494	832,423 u.E. 14 Elev. 5779.3
594	330		98° 23'	"	5.4	-	-	-5.4		5778.3		-129	+304	1.768,497	832,421
595	214		101° 04' 44"	"	5.4	-	-	-5.4		5778.3	(P)	-93	+193	1.768,533	832,310 (P) y - ROAD south
595	0		"	"	5.2	-	-	-5.2		5778.5	T	0	0	1.768,626	832,117
596	330		275° 34'	+14.6	4.8	-	-	-4.8		5778.9		+114	-310	1.768,740	831,807
597	660		"	"	5.3	-	-	-5.3		5778.4		+228	-620	1.768,854	831,497
598	990		"	"	5.4	-	-	-5.4		5778.3		+341	-929	1.768,967	831,188
599	1320		275° 19'	"	5.2	-	-	-5.2		5778.5		+450	-1241	1.769,076	830,826
600	1650		274° 37'	"	5.1	-	-	-5.1		5778.6		+543	-1558	1.769,169	830,559

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
8-1-83		B. Potcamp		D. Winkle		6834		D.W.		5	41					
AREA		TOPO MAP		STATE		COUNTY		RANGE		PPM		PARTY MANAGER				
NEVADA		Tippet 3 S.W. - 7 1/2'		NEVADA		White Pine						L.O. DAUGS				
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 A TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
601	1980		273° 54' 58"	+14.6	5.1	-		-5.1	5783.7	5778.6	TP	+629	-1878	1.769255	830,240	
601	1980		" "	" "	16.8	89° 50'	+5.8	-5.0			TP		"			
	3303		87° 41' A	" "	5.7	-		+5.7			BS	+703	-3227			
	3303		" "	" "	5.3	270° -		+5.3	5784.1		BS		+1			
602	2970		87° 40'	+14.6	10.0	89° 54'	+5.2	-4.8		5779.3		-631	+2902	1.769327	829,916	
603	2640		87° 36'	" "	9.4	89° 54'	+4.6	-4.8		5779.3		-558	+2580	1.769400	829,594	
604	2310		87° 31'	" "	9.0	89° 54'	+4.0	-5.0		5779.1		-485	+2259	1.769473	829,273	
605	1980		87° 17'	" "	8.6	89° 54'	+3.5	-5.1		5779.0		-408	+1938	1.769550	828,952	
606	1650		86° 52'	+14.6	8.0	89° 54'	+2.9	-5.1		5779.0		-328	+1617	1.769630	828,631	
607	1320		86° 32'	" "	7.4	89° 54'	+2.3	-5.1		5779.0		-255	+1295	1.769703	828,309	
608	990		86° 15'	" "	6.9	89° 54'	+1.7	-5.2		5778.9		-186	+972	1.769772	827,986	
609	660		85° 50'	" "	7.0	89° 50'	+1.9	-5.1		5779.0		-120	+649	1.769838	827,663	
610	330		" "	" "	6.5	89° 50'	+1.0	-5.5		5778.6		-60	+325	1.769898	827,339	
611	0		" "	" "	5.2	-		-5.2		5778.9	A	0	0	1.769958	827,014	
612	330		264° 50'	+14.6	6.0	89° 50'	+1.0	-5.0		5779.1		+54	-326	1.770012	826,688	
613	660		" "	" "	6.8	89° 50'	+1.9	-4.9		5779.2		+108	-651	1.770066	826,363	
614	990		264° 34'	" "	7.9	89° 50'	+2.9	-5.0		5779.1		+158	-977	1.770116	826,037	
615	1320		263° 40'	" "	8.9	89° 50'	+3.8	-5.1		5779.0		+190	-1306	1.770148	825,708	
616	1649		262° 50'	" "	9.6	89° 50'	+4.8	-4.8		5779.3		+213	-1635	1.770171	825,379	
617	1979		262° 08'	" "	10.3	89° 50'	+5.8	-4.5		5779.6		+232	-1965	1.770190	825,049	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
8.1.83		B. Cotcamp		D. Wrinkle		6834		D.W. S		5		42			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
NEVADA		Tippett 3 S.W. - 7 1/2		NEVADA		White Pine								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									5784.1						
618	2308		261 33	+14.6	11.3	89 50	+6.7	-4.6		5779.5		+247	-2295	1,770,205	824,79
619	2638		261 06	" "	12.1	89 50	+7.7	-4.4		5779.7		+262	-2625	1,770,220	824,389
620	2967		260 44	" "	4.8	-		-4.8		5779.3		+276	-2954	1,770,234	824,060
621	3296		260 30 17	" "	4.6	-		-4.6		5779.6	TP	+293	-3283	1,770,251	823,732
621	3296				4.4	270 -		-4.4			TP				
	3300		73 20 14	" "	14.9	89 50	-9.6	+5.3			BS	-119	-3298		
	3300				+14.6	270 10	-9.6	+5.0	5784.8		BS				
622	2970		72 59	+14.6	10.3	89 54	+5.2	-5.1		5779.7		+125	+2967	1,770,257	823,402
623	2640		72 39	" "	9.8	89 54	+4.6	-5.2		5779.6		+127	+2637	1,770,259	823,072
624	2310		72 17	" "	9.0	89 54	+4.0	-5.0		5779.8		+126	+2307	1,770,258	823,742
625	1980		72 03	" "	8.2	89 54	+3.5	-4.7		5780.1		+116	+1977	1,770,248	823,412
626	1650		71 42	+14.6	9.8	89 50	+4.8	-5.0		5779.8		+106	+1647	1,770,238	822,082
627	1320		71 22	" "	8.2	89 50	+3.8	-4.4		5780.4		+93	+1317	1,770,225	821,752
628	990		71 17	" "	7.2	89 50	+2.9	-4.3		5780.5		+71	+987	1,770,203	821,422
629	660		" "	" "	6.5	89 50	+1.9	-4.6		5780.2		+47	+658	1,770,179	821,093
630	330		" "	" "	5.7	89 50	+1.0	-4.7		5780.1		+24	+329	1,770,156	820,764
631	0				5.2	-		-5.2		5779.6	X	0	0	1,770,132	820,435
632	330		250 52	+14.6	6.4	89 50	+1.0	-5.4		5779.4		-26	-329	1,770,106	820,106
633	660		250 56	" "	7.7	89 50	+1.9	-5.8		5779.0		-51	-658	1,770,081	819,777
634	990		" "	" "	8.9	89 50	+2.9	-6.0		5778.8		-77	-987	1,770,055	819,448

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE 8.1.83	INSTRUMENT MAN B. Potcamp	ROD MAN D. Wriukle	PARTY NUMBER 6834	NOTES CHECKED BY D.W. [Signature]	LINE NO. 5	PAGE 43
AREA NEVADA	TOPO MAP Tippett 3 SW-7 1/2	STATE NEVADA	COUNTY White Pine	TWP	RANGE	PPM
				PARTY MANAGER L.O. Davis		

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									5784.8					
635	1320		250° 56'	+14.6	9.9	89° 50'	+3.8	-6.1		5778.7		-103	-1316	1,770,029 819,119
636	1650		250° 49'	"	11.0	89° 50'	+4.8	-6.2		5778.6		-132	-1645	1,770,000 818,790
637	1980		250° 36'	"	11.9	89° 50'	+5.8	-6.1		5778.7		-166	-1973	1,769,966 818,462
638	2310		250° 36'	"	6.3	-		-6.3		5778.5		-197	-2302	1,769,935 818,133
639	2640		250° 22'	"	6.5	-		-6.5		5778.3		-232	-2630	1,769,900 817,805
640	2974		250° 07' 09"	"	6.9	-		-6.9		5777.9	TP	-274	-2961	1,769,858 817,425
640	2974				6.8	270° -		-6.8			TP			
	3297		65° 54' 47"	+14.6	13.3	89° 52'	-2.7	+5.6			BS	-543	-3252	
	3297				13.1	270° 08'	-2.7	+5.4		5783.4	BS			
641	2970		65° 51'	"	10.8	89° 54'	+5.2	-5.6		5777.8		+493	+2929	1,769,808 817,152
642	2640		65° 44'	"	9.9	89° 54'	+4.6	-5.3		5778.1		+443	+2603	1,769,758 816,826
643	2310		65° 40'	"	9.6	89° 54'	+4.0	-5.6		5777.8		+391	+2277	1,769,706 816,500
644	1980		65° 31'	+14.6	8.9	89° 54'	+3.5	-5.4		5778.0		+340	+1951	1,769,655 816,124
645	1650		65° 26'	"	8.2	89° 54'	+2.9	-5.3		5778.1		+286	+1625	1,769,601 815,848
Bm	1439		69° 35' 33"	"	11.1	89° 50'	+4.2	-6.9		5776.5	Bm	+146	+1432	1,769,461 815,655 15 METS 1480 U.S.G.S. Bm Elevation 5783
646	1320		65° 26'	"	9.2	89° 50'	+3.8	-5.4		5778.0		+228	+1300	1,769,543 815,523
647	990		65° 18'	"	8.6	89° 50'	+2.9	-5.7		5777.7		+174	+975	1,769,489 815,198
648	660		" "	"	7.7	89° 50'	+1.9	-5.8		5777.6		+116	+650	1,769,431 814,873
649	330		" "	"	6.7	89° 50'	+1.0	-5.7		5777.7		+58	+325	1,769,373 814,548
650	0				5.2	-		-5.2		5778.2	K	0	0	1,769,315 814,223

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
8.2.83		B. Cotcamp		D. Wrinkle		6834		D.W.		5		44			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
NEVADA		Tippet 3S.W. -7 1/2		NEVADA		White Pine								L. O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									5783.4						
651	330		243 53	+14.6	7.0	89° 50'	+1.0	-6.0		5777.4		-66	-323	1,769,249	813,900
652	660		" "	" "	7.7	89° 50'	+1.9	-5.8		5777.6		-132	-647	1,769,183	813,576
653	990		" "	" "	8.8	89° 50'	+2.9	-5.9		5777.5		-198	-970	1,769,117	813,253
654	1320		" "	" "	9.3	89° 50'	+3.8	-5.5		5777.9		-264	-1293	1,769,051	812,930
655	1650		" "	" "	10.1	89° 50'	+4.8	-5.3		5778.1		-329	-1617	1,768,986	812,606
656	1980		243° 49'	+14.6	11.1	89° 50'	+5.8	-5.3		5778.1		-398	-1940	1,768,917	812,283
657	2310		243° 38'	" "	12.3	89° 50'	+6.7	-5.6		5777.8		-471	-2261	1,768,844	811,962
658	2640		243° 30'	" "	8.9	89° 56'	+3.1	-5.8		5777.6		-544	-2583	1,768,771	811,640
659	2970		243° 23'	" "	9.3	89° 56'	+3.4	-5.9		5777.5		-618	-2905	1,768,697	811,318
660	3299		243° 07' 29"	" "	9.6	89° 56'	+3.8	-5.8	-5.6	5777.8	TP TP	-701	-3224	1,768,614	810,999
660	3299				9.3	270° 04'	+3.8	-5.5							
	2633		93° 27' 48"	" "	4.8	-		+4.8	-5782.6		BS BS	-984	-2442		
	2633				4.7	270° -		+4.7							
661	2304		52° 39'	+14.6	7.3	89° 56'	+2.7	-4.6		5778.0		+891	+2125	1,768,521	810,682
662	1977		51° 43'	" "	6.8	89° 56'	+2.3	-4.5		5778.1		+794	+1811	1,768,424	810,368
663	1648		50° 37'	" "	9.1	89° 50'	+4.8	-4.3		5778.3		+691	+1496	1,768,321	810,053
664	1319		49° 56'	" "	8.3	89° 50'	+3.8	-4.5		5778.1		+567	+1191	1,768,197	809,748
665	990		49° 13'	" "	7.6	89° 50'	+2.9	-4.7		5777.9		+437	+888	1,768,067	809,445
666	660		48° 25'	" "	6.8	89° 50'	+1.9	-4.9		5777.7		+299	+588	1,767,929	809,145
667	330		46° 38'	" "	5.9	89° 50'	+1.0	-4.9		5777.7		+159	+287	1,767,789	808,846

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
8.2.83		B. Cotcamp		D. Winkle		6834		DW		5	45				
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
NEVADA		Tippet 3 S.W. - 7 1/2'		NEVADA		White Pine					L. O. Davis				
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									5782.6						
668	0				5.2	-		-5.2		5772.4	TP	0	0	1,767,630	808,557
669	336		219° 29'	+14.6	7.2	89° 50'	+1.0	-6.2		5776.4		-194	-267	1,767,436	808,290
670	660		219° 51' 41"	"	11.1	89° 50'	+1.9	-9.2		5773.4		-384	-537	1,767,246	808,020
TP	3296		249° 41' 06"	"	11.4	89° 50'	+9.6	-1.8		5780.8	TP	-328	-3280	1,767,302	805,277
TP	3296			"	11.5	270° 10'	+9.6	-1.9			TP				
	1800		77° 03' 33"	"	7.0	96° 40'	+20.9	+22.9			BS	+52	-1799		
	1800			"	+12.3	90° 30'	+15.7	+28.0	5808.8		BS				
TP	0				5.2	-		-5.2		5803.6	TP	0	0	1,767,354	803,478
TP	2024		259° 41' 24"	"	5.7	89° 10'	+29.4	+23.7		5832.5	TP	+151	-2018	1,767,505	801,460
TP	2024			"	11.5	89° -	+35.3	+23.8			TP				

1/2" = 100'
 U.S.G.S. B.M. ELEV. 5780.6
 KALAMAZOO Creek - 1/2"
 y = 1,767,505x - 801,460
 Horiz 5'-3'
 CORR. x = +30'

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
8-4-83		B. Colcamp		D. Wrinkle		6834		D.W		5	46				
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
NEVADA		Tippet 3 S.W. - 7 1/2'		NEVADA		White Pine					L.O. Davis				
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
										5773.4					5-1,767,246 X-808,020 BS. on STA. 670 elev. 5773.4
	3192		75° 19' 22"	+14.8°	3.3	BH	+16.0	+19.3	5792.5		BS	+7	-3192		
	3192				3.0	BH 270	+16.0	+19.0			BS	+1	+5		
671	2880		77° 11'	" "	8.1	90° 20'	-16.8	-21.9		5767.6		-100	+2878	1,767,154	807,711
672	2562		79° 02'	" "	10.0	90° 20'	-14.9	-24.9		5767.6		-171	+2556	1,767,083	807,389
673	2248		81° 30'	" "	11.1	90° 20'	-13.1	-24.2		5768.3		-247	+2234	1,767,007	807,067
674	1941		84° 47'	" "	7.7	90° 30'	-16.9	-24.6		5762.9		-323	+1914	1,766,931	806,747
675	1635		88° 50'	+14.8°	9.0	90° 30'	-14.3	-23.3		5769.2		-385	+1589	1,766,869	806,422
676	1309		90° 00'	" "	8.2	90° 30'	-11.4	-19.6		5772.9		-334	+1266	1,766,920	806,099
677	981		87° 59'	" "	8.3	90° 30'	-8.6	-16.9		5775.6		-217	+957	1,767,037	805,790
678	657		83° 41'	" "	7.3	90° 30'	-5.7	-13.0		5779.5		-97	+650	1,767,157	805,483
Bm	453		68° 34' 35"	" "	6.9	90° 30'	-4.0	-10.9		5781.6	Bm	+52	+450	1,767,306	805,283
679	330		79° 36'	" "	6.8	90° 30'	-2.9	-9.7		5782.8		-25	+329	1,767,229	805,162
680	0				5.2	-		-5.2		5782.3	T	0	0	1,767,254	804,833
681	330		259° 42'	+14.8°	7.4	89° -	+5.8	-1.6		5790.9		+26	-329	1,767,280	804,504
682	660		" "	" "	9.1	89° -	+11.5	+2.4		5794.9		+52	-658	1,767,306	804,175
683	990		" "	" "	10.9	89° -	+12.3	+6.4		5798.9		+78	-987	1,767,332	803,846
684	1320		" "	" "	11.9	89° -	+23.0	+11.1		5803.6		+104	-1316	1,767,358	803,517
685	1650		259° 42'	" "	8.6	89° 10'	+24.0	+15.4		5807.9		+129	-1645	1,767,383	803,188
686	1980		" "	" "	9.1	89° 10'	+28.8	+19.7		5812.2		+155	-1974	1,767,409	802,859
687	2310		" "	" "	9.3	89° 10'	+33.6	+24.3		5816.8		+181	-2303	1,767,435	802,530

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	8.4.83	INSTRUMENT MAN	B. Cotamp	ROD MAN	D. WRIKLE	PARTY NUMBER	6834	NOTES CHECKED BY	D.V	LINE NO.	5	PAGE	47	
AREA	NEVADA	TOPO MAP	KALAMAZOO CREEK - 7 1/2	STATE	NEV.	COUNTY	White Pine	TWP		RANGE		PPM	PARTY MANAGER	L.O. Davis

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS	
												LAT.	DEP.	Y	X				
									5792.5										
688	2640		259° 42'	+14.8°	9.3	89° 10'	+38.4	+29.1		5821.6		+207	-2632	1.767.461	802.201				
689	2970		" "	" "	9.4	89° 10'	+43.2	+33.8		5826.3		+233	-2961	1.767.487	801.872				
690	3300		" "	" "	8.9	89° 10'	+48.0	+39.1		5831.6		+259	-3290	1.767.513	801.543				
691	3378		259° 35' 47"	" "	8.4	89° 10'	+49.1	+40.7		5833.2	TI	+259	-3368	1.767.513	801.465				1.767.505 x 801.460
691	3630		259° 42'	" "	9.1	89° 10'	+52.8	+43.7		5836.2		+285	-3619	1.767.539	801.214				
692	3962		259° 43' 29"	" "	9.2	89° 10'	+57.6	+48.4		5840.9	TP	+313	-3949	1.767.568	800.889				
692	3962			" "	9.1	270° 50'	+57.6	+48.5			TP	"	"	"	"	"			
	3301		79° 24' 01"	+14.8°	8.1	91° 10'	+67.2	+75.3	425.2		BS	+242	-3291						
	3301			" "	7.9	268° 50'	+67.2	+75.1	5916.1		BS	"	"						
693	2970		79° 24'	" "	9.8	91° 10'	-60.5	-70.3		5845.8		-218	+2962	1.767.593	800.565				
694	2640		" "	" "	10.5	91° 10'	-53.8	-64.3		5851.8		-193	+2633	1.767.618	800.236				
695	2310		" "	" "	12.1	91° 10'	-47.0	-59.1		5857.0		-169	+2304	1.767.642	799.907				
696	1980		" "	" "	12.1	91° 10'	-40.3	-52.4		5863.7		-145	+1975	1.767.666	799.578				
697	1650		79° 24'	+14.8°	11.1	91° 10'	-33.6	-44.7		5871.4		-121	+1646	1.767.690	799.249				
698	1320		" "	" "	11.0	91° 10'	-26.9	-37.9		5878.2		-97	+1316	1.767.714	798.919				
699	990		" "	" "	10.1	91° 10'	-20.2	-30.3		5885.8		-73	+987	1.767.738	798.590				
700	660		" "	" "	9.2	91° 10'	-13.4	-22.6		5893.5		-48	+658	1.767.763	798.261				
701	330		" "	" "	7.8	91° 10'	-6.7	-14.5		5901.6		-24	+329	1.767.787	797.932				
702	0			" "	5.2	-	-	-5.2		5910.9	T	0	0	1.767.811	797.603				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE		
8.4.83		B. Cotcamp		D. Wrinkle		6834		D.W.		5		48		
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		
NEVADA		Kalamazoo Creek-7 1/2'		NEV.		White Pine						PARTY MANAGER L. O. Davis		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									5916.1					
703	330		259° 18'	+14.8	6.2	88° 10'	+10.6	+4.4		5920.5		+24	-329	1.767,835 797,274
704	660		" "	" "	7.7	88° 10'	+21.1	+13.4		5929.5		+47	-658	1.767,858 796,945
705	990		" "	" "	9.0	88° 10'	+31.7	+22.7		5938.8		+71	-987	1.767,882 796,616
706	1320		" "	" "	10.4	88° 10'	+42.2	+31.8		5947.9		+94	-1317	1.767,905 796,286
707	1650		" "	" "	10.6	88° 10'	+52.8	+42.2		5958.3		+118	-1646	1.767,929 795,957
TP	1944		259° 07' 26"	+14.8	10.8	88° 10'	+62.2	+51.4		5967.5	TP	+133	-1938	1.767,944 795,665
Bm	2072		259° 00' 57"	" "	11.3	88° 10'	+66.3	+55.0		5971.1	Bm	+138	-2067	1.767,949 795,536
IL	2652		222° 57' 54"	" "	9.6	88° 40'	+61.7	+52.1		5968.2	IL	-1414	-2243	1.767,397 795,360
708	2682		223° 46'	" "	10.0	88° 42'	+60.8	+50.8		5966.9		-1399	-2288	1.766,412 795,315
709	2922		228° 25'	" "	10.0	88° 36'	+71.4	+61.4		5977.5		-1317	-2609	1.766,494 794,994
710	3174		232° 25' 04"	" "	11.7	88° 30'	+83.1	+71.4	+71.5	5982.6	TP	-1229	-2925	1.766,583 794,683
	2265		93° 14' 44"	+14.8	11.4	92° 10'	+85.6	+97.0			TP	"	+5	
	2265			+4.8	92° 20'	+92.2	+97.0		6084.6		BS	+701	-2152	
711	1937		92° 48'	" "	8.4	92° 20'	-78.8	-87.2		5997.4		-586	+1846	1.766,699 794,382
712	1622		89° 44'	" "	8.9	92° 10'	-61.3	-70.2		6014.4		-407	+1570	1.766,878 794,106
713	1317		84° 56'	" "	9.0	92° 10'	-49.8	-58.8		6025.8		-223	+1298	1.767,062 793,834
IL	1087		84° 17' 11"	" "	8.3	92° 10'	-41.1	-49.4		6035.2	IL	-172	+1073	1.767,113 793,609
714	988		84° 12'	" "	7.9	92° 10'	-37.3	-45.2		6039.4		-155	+976	1.767,130 793,512
715	659		85° 42'	" "	6.8	92° 10'	-24.9	-31.7		6052.9		-120	+648	1.767,165 793,184

1595' - (SCALED)
 OFFSET south between
 707 + 708 = 1.767,970
 17 mts 1980 = 795,700
 U.S.G.S Bm Elev 5970.2
 1/2 - 1.766,400 X - 795,395
 T-Road west

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
8-4-83		B. Cotcamp		D. Wrinkle		6834		DW		5		79			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
NEVADA		Kalamazoo Creek - 7 1/2'		NEVADA		White Pine								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									6094.6						
716	330		87° 43'	+14.8	6.5	92° 10'	-12.5	-19.0		6065.6		-72	+322	1,767,213	792,858
717	0				5.2	-		-5.2		6079.4	X	0	0	1,767,285	792,536
718	329		276° 32'	" "	7.4	87° 20'	+15.3	+2.9		6092.5		+120	-306	1,767,405	792,230
719	648		285° 38'	" "	9.6	87° 50'	+24.5	+14.9		6099.5		+328	-559	1,767,613	791,977
720	974		288° 23'	" "	10.4	87° 50'	+36.8	+26.4		6111.0		+533	-815	1,767,818	791,721
721	1276		282° 25'	+14.8	11.3	87° 40'	+51.9	+40.6		6125.2		+584	-1135	1,767,869	791,401
722	1595		279° 05'	" "	10.1	87° 10'	+78.7	+68.6		6153.2		+646	-1458	1,767,931	791,078
723	1912		276° 00'	" "	9.7	86° 30'	+116.5	+106.8		6191.4		+679	-1787	1,767,964	790,749
724	2223		273° 38'	" "	9.1	86° 04'	+152.1	+143.0		6227.6		+703	-2109	1,767,988	790,427
725	2535		271° 16' 12"	" "	5.7	86° 20'	+162.1	+156.4	+156.5	6241.1	TP	+700	-2431	1,767,986	790,110
	1048		79° 15' 14"	+14.8	6.2	91° 50'	+33.5	+39.7	6280.8		OS	+74	-1045		
	1048			+9.3	91° 40'	+30.5	+39.8				BS		+5		
726	720		81° 46'	" "	7.6	92° 50'	-35.5	-42.5		6238.3		-82	+715	1,767,978	789,785
727	396		79° 05'	" "	9.5	94° 40'	-32.1	-41.6		6239.2		-27	+395	1,768,033	789,465
728	73		82° 51'	" "	6.9	94° 40'	-5.9	-12.8		6268.0		-10	+72	1,768,050	789,142
X	0				5.2	-		-5.2		6275.6	X	0	0	1,768,060	789,070
729	257		259° 32'	+14.8	12.0	86° -	+17.9	+5.9		6286.7		+19	-256	1,768,079	788,814
730	578		250° 28'	" "	11.5	87° 20'	+26.9	+15.4		6296.2		-48	-576	1,768,012	788,494
731	898		252° 09'	" "	10.6	87° 20'	+41.7	+31.1		6311.9		-48	-897	1,768,012	788,173

E.O.L. Line # 5

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

PAGE 50 OF 50

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
8.4.83		B. Cotter-P		D. Wainkle		6834		Dw		5		50			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
NEVADA		KALAMAZOO Creek T ₂		NEV.		White Pine								L.O. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									6280.8						
TP	1048		79° 15' 14"	+14.8°	6.2	91° 50'	-33.5	-39.7		6241.0	TP	-74	+1045	1.767,986	790,120
TP	1048				9.3	91° 40'	-30.5	-39.8			TP			+5	
	2535		271° 16' 12"	~ ~ +	5.7	86° 20'	-162.1	-156.4	6084.4		BS	-700	+2431		
	2535				+5.4	273° 40'	-162.1	-156.7	1566.3		BS		+5		
X	0				5.2	-		-5.2		6079.2	X	0	0	1.767,286	792,556
dl	1087		84° 17' 11"	+14.8°	8.3	92° 10'	-41.1	-49.4		6035.0	dl	-172	+1073	1.767,114	793,629
TP	2265		93° 14' 44"	~ ~	11.4	92° 10'	-85.6	-97.6		5987.4	TP	-701	+2152	1.766,585	794,713
TP	2265				4.8	92° 20'	-92.2	-97.0			TP		+5		
	3174		232° 25' 04"	~ ~ +	11.7	88° 30'	-83.1	-71.4	5915.9		BS	+1229	+2925		
	3174				+11.5	271° 30'	-83.1	-71.6	-71.53		BS				
X	0				5.2	-		-5.2		5910.7	X	0	0	1.767,814	797,638
Bm	2072		259° 00' 51"	+14.8°	11.3	88° 10'	+66.3	+55.6		5970.9	Bm	+138	-2066	1.767,952	795,572
LL	2652		222° 57' 54"	~ ~	9.6	88° 40'	+61.7	+52.1		5968.0	LL	-1414	-2243	1.766,400	795,395

11m18 1980
u.s.g.s. Bm Elev. 5970.2
y = 1.766400 x = 795.395
11-T-ROAD west
MORIS y = 40'
CORR. x = 150