

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

PAGE 1 OF 72

DATE 3-11-83	INSTRUMENT MAN B. Cotcamp	ROD MAN D. Hamilton	PARTY NUMBER 6834	NOTES CHECKED BY BC	LINE NO. 1	PAGE 1
AREA NEVADA	TOPO MAP Betty Creek - 7 1/2'	STATE NEVADA	COUNTY Persimong	TWP	RANGE	PPM
				PARTY MANAGER L. Davis		

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH - LAT.	EAST + WEST - DEP.	COORDINATES		WIND - T <sub>1</sub> LIEZ - REOLA REMARKS
														Y	X	
														SCALED →		5-2,064,040 X-324,090
K1			Y- INTERSECT ELEVATION 1523.0		meters →	4996.7	feet.			4996.7	K1					Y-INTERSECT. EL. 4996.7
BS	5198		290° 12' 44" -180	+16.9°	9.7	86° 54'	281.1	271.4			BS	-3132	+4139			
BS	5198			+9.8		273° 06'	281.1	271.3	4725.4		BS	+3	-4			
1	4898		290° 00'	+16.9°	9.0	87° 06'	+247.5	+238.5		4963.9		+2941	-3917	2,063,852	324,308	B.O.L. NEVADA PROJECT
2	4591		291° 25'	"	7.8	87° 24'	+208.1	+200.3		4925.7		+2846	-3602	2,063,757	324,623	LINE #1
3	4269		292° 15'	"	6.8	87° 40'	+173.7	+166.9	✓	4892.3		+2695	-3311	2,063,606	324,914	
4	3941		292° 02'	"	6.5	87° 50'	+148.9	+142.4		4867.8		+2477	-3066	2,063,388	325,159	
5	3611		291° 58'	"	6.9	87° 56'	+130.1	+123.2		4848.6		+2266	-2812	2,063,177	325,413	
6	3281		291° 55'	+16.9°	9.1	88° -	+114.4	+105.3		4830.7		+2057	-2556	2,062,968	325,669	
7	2953		292° 29'	"	12.6	88° -	+103.0	+90.4		4815.8		+1874	-2282	2,062,785	325,943	
8	2625		293° 19'	"	7.2	88° 10'	+83.9	+76.7		4802.1		+1695	-2004	2,062,606	326,221	
9	2298		294° 22'	"	9.0	88° 10'	+73.5	+64.5		4789.9		+1516	-1727	2,062,427	326,498	
10	1970		295° 14'	"	10.7	88° 10'	+63.0	+52.3		4777.7		+1322	-1461	2,062,033	326,764	
11	1641		295° 57'	+16.9°	9.8	88° 10'	+52.5	+42.7		4768.1		+1116	-1203	2,062,027	327,022	
12	1310		296° 54'	"	19.2	88° 14'	+40.4	+21.2		4746.6		+890	-961	2,061,801	327,264	
13	987		293° 11'	"	8.9	88° 14'	+30.4	+21.5		4746.9		+636	-755	2,061,547	327,470	
14	658		294° 01'	"	5.8	88° 14'	+20.3	+14.5		4739.9		+481	-497	2,061,342	327,728	
15	330		299° 04'	"	8.8	88° 14'	+10.2	+1.4		4726.8		+237	-229	2,061,048	327,996	
16	0				5.2	-		-5.2		4720.2	T	0	0	2,060,911	328,225	

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DATE 3.11.83	INSTRUMENT MAN B. Cotcamp	ROD MAN D. Hamilton	PARTY NUMBER 6834	NOTES CHECKED BY B.C.	LINE NO. 1	PAGE 2
AREA	TOPO MAP Betty Creek - 7 1/2'	STATE NEVADA	COUNTY Pershing	TWP	RANGE	PPM
				PARTY MANAGER L. Davis		

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									4725.4					
17	330		122° 06'	+16.9°	6.3	91° 10'	-6.7	13.0		4712.4		-249	+217	2060,667 328,442
18	659		120° 03'	" "	5.1	91° 10'	-13.4	18.5		4706.9		-482	+450	2,060,429 328,675
19	989		119° 42'	" "	6.3	91° 10'	-20.1	26.4		4699.0		-719	+680	2,060,192 328,905
20	1319		119° 21'	" "	7.7	91° 10'	-26.9	34.6		4690.8		-953	+912	2,059,958 329,137
21	1649		119° 02'	" "	7.8	91° 10'	-33.6	41.4		4684.0		-1185	+1147	2,059,733 329,372
22	1979		119° 18'	+16.9°	8.2	91° 10'	-40.3	48.5		4676.9		-1428	+1370	2,059,483 329,595
23	2307		120° 10'	" "	7.0	91° 10'	-47.0	54.0		4671.4		-1689	+1571	2,059,222 329,796
24	2636		120° 50'	" "	12.0	91°	-46.0	58.0		4667.4		-1951	+1773	2,058,960 329,998
25	2965		121° 26'	" "	10.7	91°	-51.7	62.4		4663.0		-2215	+1971	2,058,696 330,196
26	3293		121° 59'	" "	7.9	91°	-57.5	65.4		4660.0		-2481	+2165	2,058,430 330,390
27	3623		122° 21'	+16.9°	8.9	91°	-63.2	72.1		4653.3		-2745	+2365	2,058,166 330,590
28	3952		122° 32'	" "	9.1	91°	-69.0	78.1		4647.3		-3002	+2570	2,057,909 330,795
29	4282		122° 44'	" "	8.0	91°	-74.7	82.7		4642.7		-3263	+2773	2,057,648 330,998
30	4611		122° 56'	" "	10.8	91°	-80.5	91.3		4634.1		-3524	+2974	2,057,387 331,199
31	4940		123° 15'	" "	7.0	91°	-86.2	93.2		4632.2		-3793	+3165	2,057,118 331,390
32	5269		123° 30'	" "	11.0	91° 02'	-95.0	106.0		4619.4		-4060	+3359	2,056,851 331,584
33	5597		123° 36' 28"	+16.9°	8.2	90° 54'	-87.9	96.1			TP	-4319	+3559	2,056,595 331,780
33	5597				8.1	269° 06'	87.9	96.0		4629.4	TP	+3	-4	

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3.11.83		B. Cotcamp		D. Hamilton		6834		K.D. B.C.		1		3			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Betty Creek - 7 1/2'		Betty Creek - 7 1/2'		NEVADA		Pershing								L. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
										4629.4					
BS	4615		311° 29' 23" -180	+16.9°	12.4	89° 20'	-53.7	-41.3	4588.1		BS	-3930	+2419		
BS	4615				12.3	270° 40'	53.7	-41.4			BS	+3	-4		
34	4285		311° 29'	+16.9°	10.8	89° 22'	+47.3	+36.5		4624.6		+3649	-2246	2,056,317	331,949
35	3955		" "	" "	6.8	89° 22'	+43.7	+36.9		4625.0		+3368	-2073	2,056,036	332,122
36	3625		311° 26'	" "	7.7	89° 22'	+40.1	+32.4		4620.5		+3082	-1908	2,055,750	332,287
37	3295		311° 09'	" "	7.9	89° 20'	+38.3	+30.4		4618.5		+2796	-1744	2,055,464	332,451
38	2966		310° 47'	" "	9.8	89° 20'	+34.5	+24.7		4612.8		+2507	-1586	2,055,175	332,609
39	2637		310° 16'	+16.9°	11.3	89° 20'	+30.7	+19.4		4607.5		+2216	-1430	2,054,084	332,765
40	2309		309° 32'	" "	11.8	89° 20'	+26.9	+15.1		4603.2		+1924	-1277	2,054,592	332,918
41	1980		308° 59'	" "	12.2	89° 20'	+23.0	+10.8		4598.9		+1639	-1111	2,054,307	333,084
42	1650		308° 32'	" "	8.5	89° 20'	+19.2	+10.7		4598.8		+1359	-936	2,054,027	333,259
43	1320		308° 11'	" "	9.1	89° 16'	+19.2	+10.1		4598.2		+1082	-756	2,053,750	333,439
44	990		" "	+16.9°	7.8	89° 10'	+14.4	+6.6		4594.7		+812	-567	2,053,480	333,628
45	660		" "	" "	6.7	89° 10'	+9.6	+2.9		4591.0		+541	-378	2,053,209	333,817
46	330		" "	" "	5.0	89° 10'	+4.8	0.2		4587.9		+271	-189	2,052,939	334,006
47	0				5.2	-		-5.2		4582.9	X	0	0	2,052,668	334,195
48	330		128° 48'	+16.9°	7.7	90° 40'	-3.8	-11.5		4576.6		-273	+186	2,052,395	334,381
49	660		" "	" "	9.8	90° 40'	-7.7	-17.5		4570.6		-545	+372	2,052,123	334,567
50	990		129° 09'	" "	9.1	90° 40'	-11.5	-20.6		4567.5		-821	+553	2,051,847	334,748

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3-11-83		B. Cotcamp		D. Hamilton		6834		B.C.		1		4		
AREA		TOPO MAP		STATE		COUNTY		TWP		PPM		PARTY MANAGER		
		Betty Creek - 7 1/2'		NEVADA		Pershing						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.	
									4588.1					
51	1320		129° 26'	+16.9°	9.0	90° 40'	75.4	-24.4		4563.7		-1099	+732	2,051,569 334,927
52	1650		129° 36'	" "	6.1	90° 40'	79.2	-25.3		4562.8		-1376	+911	2,051,292 335,106
53	1980		129° 43'	" "	12.9	90° 20'	71.5	-24.4		4563.7		-1653	+1089	2,051,015 335,284
54	2310		129° 49'	" "	11.8	90° 20'	73.4	-25.2		4562.9		-1931	+1268	2,050,737 335,463
55	2640		129° 56'	+16.9°	9.2	90° 20'	75.4	-24.6		4563.5		-2210	+1444	2,050,458 335,639
56	2970		129° 59'	" "	7.9	90° 20'	77.3	-25.2		4562.9		-2488	+1623	2,050,190 335,818
57	3300		" "	" "	9.1	90° 20'	79.2	-28.3		4559.8		-2764	+1803	2,049,904 335,998
58	3630		130° 02'	" "	8.8	90° 20'	71.1	-29.9		4558.2		-3042	+1981	2,049,628 336,176
59	3960		130° 06'	" "	11.7	90° 20'	73.0	-34.7		4553.4		-3321	+2157	2,049,347 336,352
60	4289		130° 10'	+16.9°	9.8	90° 20'	75.0	-34.8		4553.3		-3600	+2332	2,049,068 336,527
61	4619		130° 11'	" "	10.0	90° 20'	76.9	-36.9		4551.2		-3877	+2510	2,048,791 336,705
62	4949		130° 14' 15"	" "	11.2	90° 20'	-28.8	-40.0			TP	-4157	+2685	2,048,514 336,876 Betty Creek 7.5
62	4949			" "	11.1	269° 40'	-28.8	-39.9		4548.2	TP	+3	-4	
BS	3959		311° 14' 29" -180	+16.9°	3.7	89° 30'	-34.5	-30.8	4517.3		BS	-3362	+2090	
BS	3959				3.4	270° 30'	-34.5	-31.1	3093		BS	+3	-4	
63	3630		311° 14'	+16.9°	8.0	89° 26'	+35.9	+27.9		4545.2		+3883	-1916	2,048,038 337,046 Jay Hawk Well 7.5
64	3300		" "	" "	7.9	89° 26'	+32.6	+24.7		4542.0		+2803	-1742	2,047,958 337,220
65	2970		" "	" "	7.7	89° 26'	+29.4	+21.7		4539.0		+2522	-1568	2,047,677 337,394

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3-11-83		B. Cotcamp		D. Hamilton		6834		B.C.		1		5			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
JAYHAWK well - 7 1/2'		NEVADA		PERSMING								L. Davis			
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									4517.3						
66	2640		311° 14'	+16.9°	7.0	89° 26'	+26.1	+19.1		4536.4		+2242	-1394	2,047,397	337,568
67	2310		" "	" "	7.9	89° 26'	+22.8	+14.9		4532.2		+1962	-1220	2,047,117	337,742
68	1986		311° 19'	" "	10.0	89° 26'	+19.6	+9.6		4526.9		+1682	-1045	2,046,837	337,917
69	1650		" "	" "	9.1	89° 26'	+16.3	+7.2		4524.5		+1401	-871	2,046,556	338,091
70	1320		" "	" "	8.8	89° 26'	+13.1	+4.3		4521.6		+1122	-695	2,046,277	338,267
71	990		" "	+16.9°	11.0	89° 50'	+2.9	-8.1		4509.2		+842	-521	2,045,997	338,441
72	660		310° 48'	" "	10.0	89° 20'	+7.7	-2.3		4515.0		+558	-353	2,045,713	338,609
73	330		" "	" "	5.8	89° 20'	+3.8	-2.0		4515.3		+279	-176	2,045,434	338,786
74	0		" "	" "	5.2	-	-	-5.2		4512.1	X	0	0	2,045,155	338,962
75	330		131° 34'	" "	8.7	90° 10'	-1.0	-9.7		4507.6		-281	+173	2,044,874	339,135
76	660		" "	+16.9°	8.6	90° 10'	-7.9	-10.5		4506.8		-563	+345	2,044,592	339,307
77	990		" "	" "	10.2	90° 10'	-2.9	-13.1		4504.2		-844	+518	2,044,311	339,480
78	1320		" "	" "	11.0	90° 10'	-3.8	-14.8		4502.5		-1125	+690	2,044,030	339,652
79	1650		131° 34'	" "	12.0	90° 10'	-4.8	-16.8		4500.5		-1406	+863	2,043,749	339,825
80	1980		" "	+16.9°	11.0	90° 14'	-8.1	-19.1		4498.2		-1688	+1036	2,043,467	339,998
81	2310		" "	" "	10.5	90° 14'	-9.4	-19.9		4497.4		-1969	+1208	2,043,186	340,170
82	2640		" "	" "	11.9	90° 14'	-10.7	-22.6		4494.7		-2250	+1381	2,042,905	340,343
83	2970		" "	" "	9.8	90° 14'	-12.1	-21.9		4495.4		-2531	+1553	2,042,624	340,515
84	3300		" "	" "	10.2	90° 14'	-13.4	-23.6		4493.7		-2813	+1726	2,042,342	340,688

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3-11-83		B. Cotcamp		D. Hami How		6834		B.C.		1	6			
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER			
		JAYHAWK well-7 1/2		NEVADA		Pershing					L. Davis			
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									4517.3					
85	3629		131° 38'	+16.9°	7.8	90° 20'	-21.1	-28.9		4488.4		-3095	+1894	2042,060 340,856
86	3949		130° 32' 53"	" "	9.9	90° 20'	-23.0	-32.9			TP	-3329	+2125	2,041,829 341,083
86	3949				9.8	269° 40'	-23.0	-32.8		4484.5	TP	+3	-4	
BS	3959		281° 25' 52" -180°	+16.9°	7.0	89° 30'	-34.5	-27.5	4456.9		BS	-1879	+3485	
BS	3959				6.7	270° 30'	-34.5	-27.8	-27.63		BS	+4	-4	
87	3630		281° 30'	+16.9°	8.0	89° 30'	+31.7	+23.7		4480.6		+1727	-3193	2,041,681 341,371
88	3300		" "	" "	10.7	89° 30'	+28.8	+18.1		4475.0		+1570	-2903	2,041,524 341,661
89	2970		" "	" "	9.2	89° 30'	+25.9	+16.7		4473.6		+1413	-2613	2,041,367 341,951
90	2640		" "	" "	6.0	89° 30'	+23.0	+17.0		4473.9		+1256	-2322	2,041,210 342,242
91	2310		281° 30'	+16.9°	5.6	89° 30'	+20.2	+14.6		4471.5		+1099	-2032	2,041,053 342,532
92	1980		" "	" "	10.0	89° 20'	+23.0	+13.0		4469.9		+942	-1742	2,040,896 342,822
93	1650		" "	" "	9.0	89° 20'	+19.2	+10.2		4467.1		+785	-1451	2,040,739 343,113
94	1320		" "	" "	8.6	89° 20'	+15.4	+6.8		4463.7		+628	-1161	2,040,582 343,403
95	990		281° 30'	+16.9°	7.2	89° 20'	+11.5	+4.3		4461.2		+471	-871	2,040,425 343,693
96	660		" "	" "	5.2	89° 20'	+7.7	+2.5		4459.4		+314	-581	2,040,268 343,983
97	330		" "	" "	4.3	89° 20'	+3.8	-0.5		4456.4		+157	-290	2,040,111 344,274
98	0				5.2	-	-	-5.2		4451.7	X	0	0	2,039,954 344,564
99	330		100° 26'	+16.9°	9.6	-	-	-9.6		4447.3		-157	+290	2,039,797 344,854

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DATE	3-11-83	INSTRUMENT MAN	B. Cotcamp	ROD MAN	D. Hamilton	PARTY NUMBER	6834	NOTES CHECKED BY	B.C.	LINE NO.	1	PAGE	7
AREA		TOPO MAP	Jayhawk Well-7k <sub>2</sub>	STATE	NEVADA	COUNTY	Pershing	TWP		RANGE	PPM	PARTY MANAGER	L. Davis

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									4456.9					
100	660		101° 30'	+16.9°	12.1	-		-12.1		4444.8		-314	+581	2,039,640 345,145
101	990		" "	" "	12.5	-		-12.5		4444.4		-471	+871	2,039,483 345,435
102	1320		" "	" "	12.7	-		-12.7		4444.2		-628	+1161	2,039,326 345,725
103	1650		" "	" "	12.7	-		-12.7		4444.2		-785	+1451	2,039,169 346,015
104	1980		" "	" "	12.7	-		-12.7		4444.2		-942	+1742	2,039,012 346,306
105	2310		101° 30'	+16.9°	10.3	-		-10.3		4446.6		-1099	+2032	2,038,855 346,596
106	2640		" "	" "	8.3	-		-8.3		4448.6		-1256	+2322	2,038,699 346,886
107	2970		" "	" "	7.0	-		-7.0		4449.9		-1413	+2613	2,038,541 347,177
108	3300		" "	" "	4.8	-		-4.8		4452.1		-1570	+2903	2,038,384 347,467
109	3630		" "	+16.9°	4.1	-		-4.1		4452.8		-1727	+3193	2,038,227 347,757
110	3960		" "	" "	4.3	-		-4.3		4452.6		-1883	+3483	2,038,071 348,047
111	4290		" "	" "	6.1	-		-6.1		4450.8		-2040	+3774	2,037,914 348,338
TP	4564		101° 20' 20"	" "	6.0	-		-6.0		4450.9	TP	-2159	+4021	2,037,795 348,585
Bm	4585		100° 56' 40"	+16.9°	6.8	-		-6.8		4450.1	Bm	-2142	+4054	2,037,812 348,618
112	4621		101° 26' 42"	+17.1°	5.2	-		-5.2		4451.7	TP	-2208	+4059	2,037,747 348,624
112	4621				5.1	270°		-5.1			TP	+1	+1	138 MC 1975
BS	2969		280° 49' 59" -180°	+17.1°	12.8	89° 50'		-8.6	+4.2	4455.9	BS	-1391	+2623	
BS	2969				12.8	270° 10'		-8.6	+4.2		BS	+1	+1	

Y=2,037,795 X=348,585  
 TP 4 WAY INTERSECT 4-22  
 0-2,037,800 X=348,605  
 4.56.5 Bm EL. 4450.7

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
3.12.83		B. Cotcamp		D. Hamilton		6834		X.D. B.C.		1		8				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
Juniper Pass-7 1/2		Juniper Pass-7 1/2		NEVADA		Pershing								L. Davis		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
									4455.9						↑	
113	2640		280° 50'	+17.1°	10.7	89° 50'	+7.7	-3.0		4452.9		+1237	-2332	2,037,394	348,916	Jay Hawk Well 7.5
114	2316		" "	" "	10.0	89° 50'	+6.7	-3.3		4452.6		+1082	-2041	2,037,439	349,207	Juniper Pass 7.5
115	1980		" "	" "	9.1	89° 50'	+5.8	-3.3		4452.6		+928	-1749	2,037,285	349,499	↓
116	1650		" "	" "	6.6	89° 50'	+4.8	-1.8		4454.1		+773	-1458	2,037,130	349,790	
117	1320		" "	" "	6.3	89° 50'	+3.8	-2.5		4453.4		+618	-1166	2,036,975	350,082	
118	990		280° 50'	+17.1°	5.3	89° 50'	+2.9	-2.4		4453.5		+464	-875	2,036,821	350,373	
119	660		" "	" "	4.0	89° 50'	+1.9	-2.1		4453.8		+309	-583	2,036,666	350,665	
120	330		" "	" "	4.2	89° 50'	+1.0	-3.2		4452.7		+155	-292	2,036,512	350,956	
121	0				5.2	-		-5.2		4450.7	X	0	0	2,036,357	351,248	
122	330		100° 51'	+17.1°	6.0	89° 46'	+1.9	-4.1		4451.8		-155	+292	2,036,202	351,540	
123	660		" "	" "	6.3	89° 40'	+3.8	-2.5		4453.4		-309	+583	2,036,048	351,831	
124	990		" "	" "	7.7	89° 40'	+5.8	-1.9		4454.0		-464	+875	2,035,893	352,123	
125	1320		" "	" "	8.0	89° 40'	+7.7	-0.3		4455.6		-619	+1166	2,035,738	352,414	
126	1650		100° 51'	+17.1°	10.2	89° 46'	+9.6	-0.6		4455.3		-773	+1458	2,035,584	352,706	
127	1980		" "	" "	11.1	89° 40'	+11.5	+0.4		4456.3		-928	+1749	2,035,429	352,997	
128	2310		" "	" "	12.3	89° 40'	+13.4	+1.1		4457.0		-1083	+2041	2,035,274	353,289	
129	2638		104° 03'	+17.1°	7.7	89° 48'	+9.2	+1.5		4457.4		-1245	+2326	2,035,112	353,574	
130	2969		101° 29' 30"	" "	7.9	89° 50'	+8.6	+0.7			TP	-1421	+2607	2,034,937	353,856	
130	2969				7.8	270° 10'	+8.6	+0.8		4456.7	TP	+1	+1			

SURVEY NOTES-HIGH RESOLUTION DATA  
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3-12-83		B. Cotcamp		D. Hamilton		6834		B.C.		1		9			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
		Juniper Pass-7 1/2		NEVADA		Pershing								L. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS + TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
										4456.7					
BS	3629		285° 00' 04" -180	+17.1°	11.3	90° 10'	+10.6	+21.9	4478.6		BS	-1929	+3074		
BS	3629				11.2	269° 58'	+10.6	+21.8		BS	+1	+1			
131	3300		285° 00'	+17.1°	8.3	90° 14'	-13.4	-21.7		4456.9		+1754	-2796	2,034,763	354,135
132	2970		" "	" "	10.1	90° 14'	-12.1	-22.2		4456.4		+1578	-2516	2,034,587	354,415
133	2640		" "	" "	11.8	90° 14'	-10.7	-22.5		4456.1		+1403	-2236	2,034,412	354,695
134	2310		" "	" "	9.0	90° 20'	-13.4	-22.4		4456.2		+1228	-1957	2,034,237	354,974
135	1980		285° 00'	+17.1°	10.7	90° 20'	-11.5	-22.2		4456.4		+1052	-1677	2,034,061	355,254
136	1650		" "	" "	10.3	90° 20'	-9.6	-19.9		4458.7		+877	-1398	2,033,886	355,533
137	1320		" "	" "	11.0	90° 20'	-7.7	-18.7		4459.9		+701	-1118	2,033,710	355,813
138	990		" "	" "	12.0	90° 20'	-5.8	-17.8		4460.8		+526	-839	2,033,535	356,092
139	660		" "	" "	10.5	90° 20'	-3.8	-14.3		4464.3		+351	-559	2,033,360	356,372
140	330		" "	" "	8.1	90° 20'	-1.9	-10.0		4468.6		+175	-280	2,033,184	356,651
141	0				5.2	-	-	-5.2		4473.4	TP	0	0	2,033,009	356,931
142	330		102° 40'	+17.1°	6.3	88° 50'	+6.7	-0.4		4478.2		-164	+286	2,032,845	357,217
143	660		" "	" "	8.7	88° 50'	+13.4	+4.7		4483.3		-328	+573	2,032,681	357,504
144	990		" "	" "	11.4	88° 50'	+20.2	+8.8		4487.4		-492	+859	2,032,517	357,790
145	1320		" "	" "	10.8	88° 50'	+26.9	+16.1		4494.7		-655	+1146	2,032,354	358,077
146	1650		" "	" "	8.9	88° 50'	+33.6	+24.7		4503.3		-819	+1432	2,032,190	358,363
147	1980		" "	" "	10.2	88° 50'	+40.3	+30.1		4508.7		-983	+1719	2,032,026	358,650

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3.12.83		B. Cotcamp		D. Hamilton		6834		BC		1		10			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
		Juniper Pass - 7 1/2		NEVADA		Pershing								L. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									4478.6						
148	2310		102° 40'	+17.1°	9.2	88° 50'	+47.0	+37.8		4516.4		-1147	+2005	2,031,862	358,936
149	2640		" "	" "	8.8	88° 50'	+53.8	+45.0		4523.6		-1311	+2292	2,031,898	359,223
150	2970		" "	" "	9.0	88° 50'	+60.5	+51.5		4530.1		-1475	+2578	2,031,534	359,509
151	3300		" "	" "	10.3	88° 50'	+67.2	+56.9		4535.5		-1638	+2865	2,031,371	359,796
152	3630		" "	" "	10.8	88° 50'	+73.9	+63.1		4541.7		-1802	+3151	2,031,207	360,082
153	3961		102° 40'	+17.1°	9.0	88° 56'	+73.7	+64.7		4543.3		-1967	+3438	2,031,042	360,369
154	4290		102° 45' 51"	" "	8.3	88° 56'	+79.9	+71.6	} 4553	4450.1	TP	-2136	+3720	2,030,874	360,652
154	4290				8.6	271° 04'	+79.9	+71.3		TP					
BS	1976		286° 14' 06" - 180°	+17.1°	12.3	90° 30'	+17.2	+29.5	} 4579.6		BS	-1086	+1651		
BS	1976				6.5	90° 40'	+23.0	+29.5		BS					
IF	2099		286° 22' 42"	+17.1°	6.8	90° 40'	-24.4	-31.2		4548.4	IF	+1158	-1751	2,030,946	360,553
155	1646		285° 51'	" "	8.0	90° 40'	-19.1	-27.1		4552.5		+895	-1381	2,030,683	360,923
156	1316		285° 24'	" "	8.0	90° 40'	-15.3	-23.3		4556.3		+707	-1110	2,030,495	361,194
157	987		284° 35'	" "	8.3	90° 40'	-11.5	-19.8		4559.8		+518	-840	2,030,306	361,464
158	658		283° 03'	" "	6.9	90° 40'	-7.7	-14.6		4565.0		+330	-569	2,030,118	361,735
159	330		278° 51'	" "	6.4	90° 40'	-3.8	-10.2		4569.4		+144	-297	2,029,932	362,007
160	0				5.2	-		-5.2		4574.4	T	0	0	2,029,788	362,304
161	330		95° 43'	+17.1°	6.9	89° -	+5.8	+1.1		4578.5		-128	+304	2,026,660	362,608

y=2,030,970 x=360,505

IF y-ROAD NORTH

SURVEY NOTES-HIGH RESOLUTION DATA  
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3-16-83		B. Cotcamp		D. Hamilton		6834		D.H.		1		4			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
		Juniper Pass-7 1/2		NEVADA		Pershing								L. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									4579.6						
162	660		95° 43'	+17.1°	7.9	89° -	+11.5	+3.6		4583.2		-256	+608	2,029,532	362,912
163	990		" "	" "	8.9	89° -	+17.3	+8.4		4588.0		-384	+913	2,029,401	363,217
164	1319		96° 46'	" "	9.7	89° -	+23.0	+13.3		4592.9		-534	+1206	2,029,251	363,510
165	1648		97° 39' 17"	" "	8.3	89° 10'	+24.0	+15.7		4595.3	TP	-690	+1496	2,029,098	363,801
165	1648				13.1	89° -	+28.8	+15.7			TP		+1		
135	1643		279° 03' 13" - 180°	+17.1°	10.3	84	+8.2	+18.5	4613.8		BS	-724	+1475		
BS	1643				+13.6	90° 10'	+4.8	+18.4			BS		+1		
166	1314		278° 28'	+17.1°	12.1	-	-	-12.1		4601.7		+567	-1185	2,028,941	364,092
167	985		277° 31'	" "	8.4	-	-	-8.4		4605.4		+410	-895	2,028,784	364,382
168	656		275° 28'	" "	5.0	-	-	-5.0		4608.8		+252	-606	2,028,626	364,671
169	329		270° 15'	" "	7.0	89° 10'	+4.8	-2.2		4611.6		+98	-314	2,028,472	364,963
170	0				5.2	-	-	-5.2		4608.6	X	0	0	2,028,374	365,277
171	330		82° 42'	+17.1°	7.6	90° 10'	-1.0	-8.6		4605.2		-56	+325	2,028,318	365,602
172	660		" "	" "	9.1	90° 10'	-1.9	-11.0		4602.8		-112	+650	2,028,262	365,927
173	990		" "	" "	11.6	90° 10'	-2.9	-14.5		4599.3		-169	+976	2,028,205	366,253
174	1320		" "	" "	10.0	90° 20'	-7.7	-17.7		4596.1		-225	+1301	2,028,149	366,578
175	1650		82° 42'	" "	11.5	90° 20'	-9.6	-21.1		4592.7		-281	+1626	2,028,093	366,903
176	1980		" "	" "	10.4	90° 30'	-17.3	-27.7		4586.1		-337	+1951	2,028,037	367,228
Sec. CORN.	2069		80° 34' 54"	" "	12.5	90° 30'	-18.1	-30.6		4583.2	Sec. CORN.	-277	+2050	2,028,071	367,327

4-7,028,100 x-367,280  
Sec. CORNER 4.3  
LAND OFFICE SURVEY #38

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
3.16.83		B. Cotcamp		D. Hamilton		6834		D.H.		1	12					
AREA		TOPO MAP	STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
		Juniper Pass - 7 1/2	NEVADA	Pershing					L. Davis							
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS
												LAT.	DEP.	Y	X	
									4613.8							
177	2310		82° 40' 16"	+17.1°	9.6	90° 30'	-20.2	-29.8		4584.0	TP	-392	+2276	2,027,992	367,554	
177	2310				5.7	90° 36'	-24.2	-29.9			TP		+1			
	2302		241° 13' 54" -180°	+17.1°	13.3	88° 30'	-60.3	-47.0	4537.0		BS	+465	+2254			
	2302				6.5	88° 40'	-53.6	-47.1			BS		+1			
178	1979		239° 40'	+17.1°	5.2	88° 40'	+46.0	+40.8		4577.8		-453	-1926	2,027,999	367,883	
179	1650		" "	" "	8.3	88° 40'	+38.4	+30.1		4567.1		-378	-1606	2,028,069	368,203	
180	1320		" "	" "	7.2	88° 40'	+30.7	+23.5		4560.5		-302	-1285	2,028,145	368,524	
181	990		" "	" "	5.2	88° 40'	+23.0	+17.8		4554.8		-227	-964	2,028,220	368,845	
182	660		239° 40'	" "	9.2	88° 40'	+15.4	+6.2		4543.2		-151	-642	2,028,296	369,167	
183	330		" "	" "	10.7	88° 40'	+7.7	+3.0		4534.0		-76	-321	2,028,371	369,488	
184	0				5.2	-		-5.2		4531.8	X	0	0	2,028,447	369,809	
185	330		59° 35'	+17.1°	6.8	90° 50'	-4.8	-11.6		4525.4		+76	+321	2,028,523	370,130	
186	660		" "	" "	6.6	90° 50'	-9.6	-76.2		4520.8		+152	+642	2,028,599	370,451	
187	990		" "	" "	7.9	90° 50'	-14.4	-22.3		4514.7		+228	+963	2,028,675	370,772	
188	1320		60° 14'	+17.1°	9.7	90° 50'	-19.2	-28.9		4508.1		+289	+1288	2,028,736	371,097	
189	1644		62° 22' 33"	" "	12.4	90° 50'	-23.9	-36.3		4500.7	TP	+300	+1616	2,028,747	371,426	
189	1644				9.6	90° 56'	-26.8	-36.4			TP		+1			
	1649		253° 06' 41" -180°	+17.1°	13.4	88° 30'	-43.2	-29.8	4470.9		BS	-6	+1648			
	1649				8.6	88° 40'	-38.4	-29.8			BS		+1			

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 3-16-83	INSTRUMENT MAN B. Cotcamp	ROD MAN D. Hamilton	PARTY NUMBER 6834	NOTES CHECKED BY D.H.	LINE NO. 1	PAGE 13
AREA NEVADA	TOPO MAP Juniper Pass-7 1/2	STATE NEVADA	COUNTY Pershing	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.	
									4770.9					
190	1320		253° 07'	+17.1°	8.1	88° 40'	+30.7	+22.6		4493.5		+5	-1320	2,028,746 371,755
191	990		" "	" "	5.0	88° 46'	+23.0	+18.0		4488.9		+4	-990	2,028,745 372,085
192	1020		253° 23' 05"	+17.1°	5.2	88° 40'	+23.7	+18.5		4489.4	TP	+9	-1020	2,028,750 372,055
192	660		253° 07'	" "	6.9	88° 20'	+19.2	+12.3		4483.2		+3	-660	2,028,744 372,415
193	330		" "	" "	5.0	88° 20'	+9.6	+4.6		4475.5		+1	-330	2,028,742 372,745
194	0				5.2	-		-5.2		4455.7	TP	0	0	2,028,741 373,075
195	330		73° 05'	+17.1°	8.1	91° 50'	-10.6	-18.7		4452.2		-1	+330	2,028,740 373,405
196	660		" "	" "	5.7	91° 50'	-21.1	-26.8		4444.1		-2	+660	2,028,739 373,735
197	990		" "	" "	4.3	91° 50'	-31.7	-36.0		4434.9		-3	+990	2,028,738 374,065
198	1320		" "	" "	6.3	91° 50'	-42.2	-48.5		4422.4		-4	+1320	2,028,737 374,395
199	1649		" "	" "	11.0	91° 50'	-52.7	-63.7		4407.2		-5	+1649	2,028,736 374,724
200	1978		73° 39'	+17.1°	11.9	91° 50'	-63.3	-75.2		4395.7		-26	+1978	2,028,715 375,053
201	2288		76° 26'	" "	7.8	91° 30'	-59.9	-67.7		4403.2		-141	+2284	2,029,600 375,359
202	2568		80° 33' 26"	+17.3°	8.7	91° 20'	-59.8	-68.5			TP	-351	+2543	2,028,395 375,615
202	2568				13.1	91° 16' 00"	-55.3	-68.4		4402.5	TP	+5	-3	
	1293		296° 27' 36" -180	+17.3°	14.8	88° 46'	-27.8	-13.0	4389.4		BS	-894	+934	
	1293			+13.9°		88° 48'	-27.1	-13.2	-13.15		BS	+5		
203	963		296° 51'	+17.3°	12.1	88° 53'	+18.8	+6.7		4396.1		+671	-691	2,028,177 375,855
204	643		291° 48'	" "	11.8	88° 40'	+15.0	+3.2		4392.6		+406	-499	2,027,912 376,047

SURVEY NOTES-HIGH RESOLUTION DATA  
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
3.16.83		B. Cotcamp		D. Hamilton		6834		A.H.		1	14				
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
NEVADA		Juniper Pass 7.5		NEVADA		Pershing					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
									4389.4						
205	330		280° 45'	+17.3°	7.0	88° -	+11.5	+4.5		4393.9		+155	-291	2,027,661	376,255
206	0				5.2	-		-5.2		4384.2	X	0	0	2,027,506	376,546
207	327		116° 07'	+17.3°	12.0	92° 26'	-13.9	-25.9		4363.5		-225	+238	2,027,281	376,784
208	652		117° 26'	" "	12.1	92° 30'	-28.4	-40.5		4348.9		-459	+463	2,027,047	377,009
209	968		110° 36'	" "	9.9	92° -	-33.8	-43.7		4345.7		-595	+764	2,026,911	377,310
210	1291		107° 17'	" "	7.1	92° 34'	-57.8	-64.9		4324.5		-733	+1063	2,026,773	377,609
211	1618		105° 30' 50"	" "	10.5	92° 40'	-75.3	-85.8		4303.6	TP	-876	+1358	2,026,635	377,901
211	1618			" "	13.4	92° 34'	-72.5	-85.9			TP	+5	-3		
	2623		301° 18' 17" - 180°	+17.3°	12.5	88° 10'	-83.9	-71.4	4232.2		BS	-1967	+1734		
	2623			" "	+12.5	211° 50'	-83.9	-71.4			BS	+5	-3		
212	2305		303° 18'	+17.3°	7.3	88° 34'	+57.6	+50.3		4282.5		+1781	-1463	2,026,454	378,169
213	1976		302° 55'	" "	4.5	89° -	+34.5	+30.0		4262.2		+1519	-1264	2,026,192	378,368
214	1647		302° 24'	" "	9.0	89° 10'	+23.9	+14.9		4247.1		+1256	-1065	2,025,929	378,567
215	1317		301° 35'	+17.3°	9.5	89° 20'	+15.3	+5.8		4238.0		+992	-866	2,025,665	378,766
216	988		300° 22'	" "	12.0	89° 40'	+5.8	-6.2		4226.0		+730	-665	2,025,403	378,967
217	660		298° 00'	" "	9.1	89° 40'	+3.8	-5.3		4226.9		+469	-464	2,025,142	379,168
218	330		297° 13'	" "	8.0	89° 40'	+1.9	-6.1		4226.1		+231	-235	2,024,904	379,397
219	0				5.2	-		-5.2		4227.0	X	0	0	2,024,673	379,632
220	319		99° 28'	+17.3°	12.8	93° 30'	-19.4	-32.2		4200.0		-144	+285	2,024,529	379,917

LAST STA. ON GOOD GRAVEL  
CROSS COUNTRY TO  
221

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
3.17.83		B. Cotcamp		D. Hamilton		6834		D.H.		1	15					
AREA		TOPO MAP	STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
NEVADA		Juniper Pass - 7 1/2	NEVADA	Pershing					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
									4232.2							
221	642		91° 02'	+17.3°	7.3	94° 16'	-46.5	-53.8		4178.4		-202	+609	2,024,471	380,241	
222	963		95° 23'	" "	9.4	92° 50'	-47.5	-56.9		4175.3		-371	+889	2,024,302	380,521	BACK ON TWO TRACK
223	1291		94° 29'	" "	12.5	92° 30'	-56.3	-68.8		4163.4		-479	+1199	2,024,194	380,831	
224	1621		94° 05'	" "	8.4	92° 30'	-70.6	-79.0		4153.2		-591	+1509	2,024,082	381,141	
225	1951		94° 01'	+17.3°	9.0	92° 20'	-79.4	-88.4		4143.8		-709	+1818	2,023,964	381,450	
226	2281		93° 50'	" "	10.4	92° 10'	-86.2	-96.6		4135.6		-822	+2128	2,023,851	381,760	
227	2609		93° 45'	" "	6.9	92° 10'	-98.6	-105.5		4126.7		-937	+2435	2,023,736	382,067	
228	2928		95° 27'	" "	11.8	92° -	-102.1	-113.9		4118.3		-1132	+2700	2,023,541	382,332	
229	3247		97° 00' 07"	" "	8.9	92° -	-113.3	-122.2		4110.0	TP	-1335	+2957	2,023,342	382,587	
229	3247			" "	8.8	268° -	-113.3	-122.1			TP	+4	-2			
	3215		287° 16' 41" -180°	+17.3°	11.2	88° 20'	-93.5	-82.3	4027.7		BS	-1824	+2646			
	3215			"	7.6	88° 24'	-89.8	-82.2			BS	+3	-1			
230	2889		286° 25'	+17.3°	9.8	88° 20'	+84.0	+74.2		4101.9		+1604	-2403	2,023,125	382,829	
231	2560		285° 58'	" "	9.0	88° 20'	+74.4	+65.4		4093.1		+1404	-2140	2,022,925	383,092	
232	2230		285° 36'	" "	8.0	88° 20'	+64.8	+56.8		4084.5		+1211	-1872	2,022,732	383,360	↑
233	1901		285° 03'	" "	7.2	88° 20'	+55.3	+48.1		4075.8		+1017	-1606	2,022,538	383,626	Juniper Pass 7 1/2
234	1572		284° 04'	+17.3°	7.6	88° 20'	+45.7	+38.1		4065.8		+818	-1342	2,022,339	383,890	Blue Wing Flt Mar 7 1/2
235	1247		281° 52'	" "	6.6	88° 20'	+36.3	+29.7		4057.4		+608	-1089	2,022,129	384,143	↓
236	919		279° 46'	" "	4.9	88° 20'	+26.7	+21.8		4049.5		+418	-818	2,021,939	384,414	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3.17.83		B. Cotcamp		D. Hamilton		6834		A.W.		1		16			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
NEVADA		Bluewing Flat North-7 1/2		NEVADA		Pershing								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
									4027.7						
237	595		214° 55'	+17.3°	6.0	88° 10'	+19.0	+13.0		4040.7		+225	-551	2,021,746	384,681
238	270		268° 21'	" "	4.7	88° 10'	+8.6	+3.9		4031.6		+73	-260	2,021,594	384,972
π	0				5.1	-	-	-5.1		4022.6	π	0	0	2,021,521	385,232
239	59		69° 57'	+17.3°	7.1	97° -	-7.1	-14.2		4013.5		+3	+59	2,021,524	385,291
240	377		102° 04'	" "	8.5	95° 10'	-33.8	-42.3		3985.4		-185	+329	2,021,336	385,561
241	704		105° 24'	" "	12.9	93° -	-36.8	-49.7		3978.0		-380	+592	2,021,141	385,824
242	1033		107° 31'	" "	11.0	92° 30'	-45.0	-56.0		3971.7		-590	+848	2,020,931	386,080
±	1277		107° 49' 54"	+17.3°	6.0	92° 30'	-55.7	-61.7		3966.0	±	-734	+1043	2,020,787	386,275
Bm	4344		161° 08' 15"	" "	14.8	91° 10'	-88.4	-103.2		3924.5	Bm	-4341	+118	2,017,180	385,350
243	1362		108° 26'	" "	12.1	92° 10'	-51.5	-63.6		3964.1		-795	+1106	2,020,726	386,338
244	1691		109° 19'	" "	7.8	92° 10'	-63.9	-71.7		3956.0		-1009	+1357	2,020,512	386,539
245	2018		110° 31'	+17.3°	8.7	92° -	-70.4	-79.1		3948.6		-1237	+1594	2,020,284	386,826
246	2335		112° 54'	" "	11.1	91° 50'	-74.7	-85.8		3941.9		-1507	+1783	2,020,044	387,015
247	2661		114° 01'	" "	6.8	91° 50'	-85.1	-91.9		3935.8		-1757	+1999	2,019,764	387,231
248	2982		115° 28' 21"	+16.9°	10.9	91° 40'	-86.7	-97.6		3930.1	TP	-2009	+2202	2,019,515	387,433
248	2982				10.9	268° 20'	-86.7	-97.6			TP	+3	-1		
	2579		308° 21' 47" -180°	+16.9°	10.0	89° 10'	-37.5	-27.5	3902.6		BS	-2119	+1469		
	2579			+5.4	89° 16'	-33.0	-27.6				BS	+3	-1		
249	2258		308° 22'	+16.9°	11.5	89° 10'	+32.8	+21.3		3923.9		+1856	-1287	2,019,255	387,614

-2020,790 x -386,285  
 ± 4 Wgs ELEVATION -  
 ± 2,017,180 x -385,350  
 U.S.G.S Bm EL. 3925.0  
 12 Wgs  
 Horiz y = +21'  
 CORR. x = -15'

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3-17-83		B. Cotcamp		D. Hamilton		6834		D.H.		1		17			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
NEVADA		Bluewing Flat no. - 7 1/2		NEVADA		Pershing								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
									3902.6						
250	1932		306° 53'	+16.9°	12.2	89° 10'	+28.1	+15.9		3918.5		+1559	-1142	2,018,958	387,759
251	1608		304° 51'	" "	9.8	89° 20'	+18.7	+8.9		3911.5		+1265	-993	2,018,664	387,908
252	1308		299° 31'	" "	11.7	89° 20'	+15.2	+3.5		3906.1		+947	-902	2,018,346	387,999
253	990		297° 50'	" "	7.9	TH	+5.0	-2.9		3899.7		+697	-703	2,018,096	388,198
254	660		" "	+16.9°	5.3	-		-5.3		3897.3		+465	-469	2,017,864	388,432
SEC. CORN.	653		257° 13' 58"	" "	4.2	-		-4.2		3898.4	SEC. CORN.	+47	-651	2,017,046	388,250
255	330		297° 50'	" "	5.2	-		-5.2		3897.4		+232	-234	2,017,631	388,067
256	0				5.2	-		-5.2		3897.4	X	0	0	2,017,399	388,901
257	330		117° 06'	+16.9°	5.4	-		-5.4		3897.2		-229	+237	2,017,170	389,138
258	660		" "	" "	5.5	-		-5.5		3897.1		-458	+475	2,016,941	389,376
259	990		" "	" "	5.6	-		-5.6		3897.0		-688	+712	2,016,711	389,613
260	1320		117° 06'	" "	5.7	-		-5.7		3896.9		-917	+950	2,016,482	389,851
261	1650		" "	+16.9°	5.8	-		-5.8		3896.8		-1146	+1187	2,016,253	390,088
262	1980		" "	" "	5.9	-		-5.9		3896.7		-1375	+1424	2,016,024	390,325
263	2310		" "	" "	5.9	-		-5.9		3896.7		-1605	+1662	2,015,794	390,563
264	2640		117° 06' 13"	" "	5.8	-		-5.8		3996.8	TP	-1834	+1899	2,015,568	390,799
264	2640				5.7	270°		-5.7			TP	+3	-1		
	3300		296° 36' 36" - 180	+16.9°	5.8	-		+5.8	3902.6		BS	-2272	+2393		
	3300				5.7	270°		+5.7			BS	+3	-1		

File # STA. on Dry Lake.  
 4-2,017,400 X-388,180  
 1811  
 1920 U.S. GENERAL LAND OFFICE  
 OFFICE SURVEY  
 1928

SURVEY NOTES-HIGH RESOLUTION DATA  
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
3.17.83		B. Cotcamp		D. Hamilton		6834		D.H.		1	18				
AREA		TOPO MAP	STATE	COUNTY	TWP	RANGE	PPM	PARTY MANAGER							
NEVADA		Bureau of Land Management - 7 1/2	NEVADA	Pershing				L. Davis							
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									3902.6						
265	2970		296 40	+16.9	5.8	-		-5.8		3896.8		+2047	-2152	2,015,346	391,039
266	2640		" "	" "	5.7	-		-5.7		3896.9		+1819	-1913	2,015,118	391,278
267	2310		" "	" "	5.7	-		-5.7		3896.9		+1592	-1674	2,014,891	391,517
268	1980		" "	" "	5.7	-		-5.7		3896.9		+1365	-1435	2,014,664	391,756
269	1650		296 40	+16.9	5.7	-		-5.7		3896.9		+1137	-1196	2,014,436	391,995
270	1320		" "	" "	5.6	-		-5.6		3897.0		+910	-956	2,014,209	392,235
271	990		" "	" "	5.5	-		-5.5		3897.1		+682	-717	2,013,981	392,474
272	660		" "	" "	5.4	-		-5.4		3897.2		+455	-478	2,013,754	392,713
273	330		" "	" "	5.2	-		-5.2		3897.4		+227	-239	2,013,526	392,952
274	0				5.2	-		-5.2		3897.4	X	0	0	2,013,299	393,191
275	330		116° 10'	+16.9	5.3	-		-5.3		3897.3		-225	+241	2,013,074	393,432
276	660		" "	" "	5.3	-		-5.3		3897.3		-451	+482	2,012,848	393,673
277	990		" "	" "	5.4	-		-5.4		3897.2		-676	+723	2,012,623	393,914
278	1320		" "	" "	5.4	-		-5.4		3897.2		-901	+964	2,012,398	394,155
279	1650		116° 10'	+16.9	5.5	-		-5.5		3897.1		-1127	+1205	2,012,172	394,396
280	1980		" "	" "	5.6	-		-5.6		3897.0		-1352	+1447	2,011,947	394,638
281	2310		" "	" "	5.8	-		-5.8		3896.8		-1577	+1688	2,011,722	394,879
282	2640		" "	" "	5.8	-		-5.8		3896.8		-1803	+1929	2,011,496	395,120
283	2970		" "	" "	5.8	-		-5.8		3896.8		-2028	+2176	2,011,271	395,361

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 3-17-83	INSTRUMENT MAN B. Cotcamp	ROD MAN D. Hamilton	PARTY NUMBER 6834	NOTES CHECKED BY D.H.	LINE NO. 1	PAGE 19
AREA NEVADA	TOPO MAP Bluewing FLAT NORTH-7 1/2	STATE NEVADA	COUNTY Pershing	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.	
									3902.6					
284	3300		116° 08' 25"	+16.9°	5.7	-		-5.7		3896.9	TP	-2252	+2412	2,011,050 395,602
284	3300				5.6	270°		-5.6			TP	+3	-1	
	3300		296° 24' 24" -180	+16.9°	6.6	-		+6.6	3903.5		BS	-2263	+2401	
	3300				6.5	270°		+6.5			BS	+3		
285	2970		296° 25'	+16.9°	6.6	-		-6.6		3896.9		+2038	-2161	2,010,828 395,842
286	2640		" "	" "	6.5	-		-6.5		3897.0		+1811	-1921	2,010,601 396,082
287	2310		" "	" "	6.4	-		-6.4		3897.1		+1585	-1681	2,010,375 396,322
288	1980		" "	" "	6.3	-		-6.3		3897.2		+1358	-1441	2,010,148 396,562
289	1650		296° 25'	+16.9°	6.1	-		-6.1		3897.4		+1132	-1201	2,009,922 396,802
290	1320		" "	" "	5.9	-		-5.9		3897.6		+906	-960	2,009,696 397,043
291	990		" "	" "	5.8	-		-5.8		3897.7		+679	-720	2,009,469 397,283
292	660		" "	" "	5.5	-		-5.5		3898.0		+453	-480	2,009,243 397,523
293	330		" "	" "	5.2	-		-5.2		3898.3		+226	-240	2,009,016 397,763
294	0				5.2	-		-5.2		3898.3	X	0	0	2,008,790 398,003
295	330		116° 44'	+16.9°	5.1	-		-5.1		3898.4		-228	+239	2,008,562 398,242
296	660		" "	" "	5.1	-		-5.1		3898.4		-455	+478	2,008,335 398,481
297	990		" "	" "	5.1	-		-5.1		3898.4		-683	+717	2,008,107 398,720
298	1320		" "	" "	5.1	-		-5.1		3898.4		-911	+955	2,007,879 398,958
299	1650		" "	" "	5.1	-		-5.1		3898.4		-1139	+1194	2,007,651 399,197

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
3-17-83		B. Cotcamp		D. Hamilton		6834		D.H.		1	20			
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
NEVADA		BLUE W. NA FLAT NORTH-7 1/2		NEVADA	Pershing					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.	
									3903.5					
300	1980		116° 44'	+16.9°	5.1	-		-5.1		3898.4		-1366	+1433	2,007,424 399,436
301	2310		" "	" "	5.1	-		-5.1		3898.4		-1594	+1672	2,007,196 399,675
302	2640		" "	" "	5.1	-		-5.1		3898.4		-1822	+1911	2,006,968 399,914
303	2970		116° 44'	" "	5.2	-		-5.2		3898.3		-2049	+2150	2,006,741 400,153
304	3300		116° 48 10"	" "	5.2	-		-5.2		3898.3	TP	-2280	+2386	2,006,513 400,389
304	3300				5.2	270-		-5.2			TP	+3		
	3301		298° 02' 19" -180°	+16.9°	6.1	-		+6.1	3904.3		BS	-2332	+2337	
	3301			+5.9		270-		+5.9	+603		BS	+3		
305	2970		298° 19'	+16.9°	6.0	-		-6.0		3898.3		+2108	-2092	2,006,292 400,634
306	2640		" "	" "	5.9	-		-5.9		3898.4		+1874	-1860	2,006,058 400,866
307	2310		" "	" "	5.9	-		-5.9		3898.4		+1640	-1627	2,005,824 401,099
308	1980		" "	" "	5.8	-		-5.8		3898.5		+1405	-1395	2,005,598 401,331
309	1650		298° 19'	+16.9°	5.7	-		-5.7		3898.6		+1171	-1162	2,005,355 401,564
310	1320		" "	" "	5.5	-		-5.5		3898.8		+937	-930	2,005,121 401,796
311	990		" "	" "	5.3	-		-5.3		3899.0		+703	-697	2,004,887 402,029
312	660		" "	" "	5.3	-		-5.3		3899.0		+468	-465	2,004,652 402,261
313	<del>99</del> 330		" "	" "	5.2	-		-5.2		3899.1		+234	-232	2,004,418 402,494
314	0				5.2	-		-5.2		3899.1	π	0	0	2,004,184 402,726
315	330		118° 19'	+16.9°	5.2	-		-5.2		3899.1		-234	+232	2,003,950 402,958

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 3.17.83	INSTRUMENT MAN B. Cotcamp	ROD MAN D. Hamilton	PARTY NUMBER 6834	NOTES CHECKED BY D.H.	LINE NO. 1	PAGE 21
AREA NEVADA	TOPO MAP Blue Wing Flat No. 7.5	STATE NEVADA	COUNTY Pershing	TWP	RANGE	PPM
				PARTY MANAGER L. Davis		

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									3904.3					
316	660		119° 03'	+16.9°	5.2	-		-5.2		3899.1		-474	+459	2,003,710 403,185
317	990		" "	" "	5.2	-		-5.2		3899.1		-712	+688	2,003,472 403,414
318	1320		" "	" "	5.2	-		-5.2		3899.1		-949	+918	2,003,235 403,644
319	1650		" "	" "	5.3	-		-5.3		3899.0		-1186	+1147	2,002,998 403,873
320	1980		" "	" "	5.3	-		-5.3		3899.0		-1423	+1377	2,002,761 404,103
321	2310		119° 06'	+16.9°	5.5	-		-5.5		3898.8		-1662	+1605	2,002,522 404,331
322	2640		" "	" "	5.6	-		-5.6		3898.7		-1899	+1834	2,002,285 404,560
323	2970		119° 15' 13"	" "	5.6	-		-5.6		3898.9	TP	-2142	+2057	2,002,045 404,783
323	2970				5.3	270° -		5.3	-5.4		TP	+3		
	4938		301° 59' 41" - 180°	+16.9°	8.4	-		+8.4	3907.5		BS	-3721	+3246	
	4938				8.7	270° -		+8.7	+8.6		BS	+3		
324	4608		302° 06'	+16.9°	8.3	-		-8.3		3899.2		+3478	-3023	2,001,805 405,006
325	4278		302° 14'	" "	8.2	-		-8.2		3899.3		+3235	-2799	2,001,562 405,230
326	3948		302° 20'	" "	8.0	-		-8.0		3899.5		+2990	-2578	2,001,317 405,451
327	3619		302° 25'	" "	8.0	-		-8.0		3899.5		+2744	-2359	2,001,071 405,670
328	3288		302° 29'	+16.9°	8.0	-		-8.0		3899.5		+2496	-2140	2,000,823 405,889
329	2959		302° 32'	" "	8.0	-		-8.0		3899.5		+2248	-1924	2,000,575 406,105
330	2629		302° 43'	" "	8.0	-		-8.0		3899.5		+2003	-1703	2,000,330 406,326
331	2299		302° 51'	" "	7.9	-		-7.9		3899.6		+1755	-1485	2,000,082 406,544

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	3-19-83	INSTRUMENT MAN	B. Cotcamp	ROD MAN	D. Hamilton	PARTY NUMBER	6834	NOTES CHECKED BY	D.W.	LINE NO.	1	PAGE	22	
AREA	NEVADA	TOPO MAP	Blue Wing Flat So. 7.5	STATE	NEVADA	COUNTY	Pershing	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	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									3907.5					
332	1969		303° 05'	+16.9	7.9	-		-7.9		3899.6		+1508	-1266	1,999,835 406,763
333	1639		303° 30'	" "	7.8	-		-7.8		3899.7		+1263	-1045	1,999,590 406,984
334	1310		304° 25'	" "	7.5	-		-7.5		3900.0		+1023	-819	1,999,350 407,210
335	981		305° 05'	" "	7.3	-		-7.3		3900.2		+773	-604	1,999,100 407,425
336	660		300° 07'	" "	7.2	-		-7.2		3900.3		+483	-450	1,998,810 407,579
337	330		" "	" "	7.2	-		-7.2		3900.3		+241	-225	1,998,568 407,804
338	0				5.2	-		-5.2		3902.3	TP	0	0	1,998,327 408,029
339	328		127° 09'	+16.9	7.1	89° 30'	+2.9	-4.2		3903.3		-266	+193	1,998,061 408,222
340	655		132° 18'	" "	10.3	89° 30'	+5.7	-4.6		3902.9		-563	+335	1,997,764 408,364
341	983		131° 58'	" "	10.1	89° 40'	+5.7	-4.4		3903.1		-841	+508	1,997,486 408,537
342	1301		127° 35'	" "	7.8	89° 50'	+3.8	-4.0		3903.5		-1059	+756	1,997,268 408,785
343	1619		124° 31'	+16.9	7.8	89° 50'	+4.7	-3.1		3904.4		-1267	+1007	1,997,060 409,036
344	1947		125° 10'	" "	8.2	89° 50'	+5.7	-2.5		3905.0		-1536	+1197	1,996,791 409,226
345	2275		124° 18'	" "	7.9	89° 50'	+6.6	-1.3		3906.2		-1773	+1426	1,996,554 409,455
346	2599		122° 57'	" "	7.0	89° 50'	+7.6	+0.6		3908.1		-1987	+1676	1,996,340 409,705
347	2893		120° 09'	" "	6.8	89° 50'	+8.4	+1.6		3909.1		-2118	+1971	1,996,209 410,000
348	3204		118° 09'	+16.9	6.0	89° 50'	+9.3	+3.3		3910.8		-2268	+2264	1,996,059 410,293
349	3529		117° 10'	" "	10.9	89° 44'	+16.4	+5.5		3913.0		-2454	+2536	1,995,873 410,565
350	3852		116° 10'	" "	9.9	89° 44'	+17.9	+8.0		3915.5		-2630	+2814	1,995,697 410,843

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3.18.83		B. Cotcamp		D. Hamilton		6834		D.N.		1		23			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
NEVADA		Blue Wing Flat So. 7 1/2		NEVADA		Pershing								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
									3907.5						
351	4180		115° 46'	+16.9°	10.0	89° 44'	+19.4	+9.4		3916.9		-2833	+3074	1,995,494	411,103
352	4510		115° 40'	" "	7.7	89° 44'	+21.0	+13.3		3920.8		-3051	+3322	1,995,276	411,351
353	4839		115° 21' 17"	" "	8.8	89° 40'	+28.2	+19.4		3926.9	TP	-3254	+3582	1,995,073	411,611
353	4839			" "	8.9	270° 20'	+28.2	+19.3			TP				
	3888		278° 16' 20" -180	+16.9°	11.1	90° 36'	+40.7	+51.8	3978.7		BS	-1654	+3519		
	3888			" "	8.8	90° 38'	+43.0	+51.8			BS				
354	3565		277° 18'	+16.9°	10.4	90° 40'	-41.5	-51.9		3926.8		+1461	-3252	1,994,880	411,878
355	3239		276° 28'	" "	9.3	90° 40'	-37.7	-47.0		3931.7		+1285	-2973	1,994,704	412,157
356	2931		277° 38'	" "	10.1	90° 34'	-29.0	-39.1		3939.6		+1217	-2666	1,994,636	412,464
357	2604		278° 01'	" "	9.3	90° 40'	-30.3	-39.6		3939.1		+1097	-2362	1,994,516	412,768
358	2280		279° 26'	" "	7.9	90° 40'	-26.5	-34.4		3944.3		+1011	-2043	1,994,430	413,087
359	1954		280° 48'	+16.9°	7.0	90° 40'	-22.7	-29.7		3949.0		+908	-1730	1,994,327	413,400
360	1630		282° 46'	" "	6.6	90° 40'	-19.0	-25.6		3953.1		+807	-1416	1,994,226	413,714
361	1306		284° 27'	" "	6.1	90° 40'	-15.2	-21.3		3957.4		+679	-1115	1,994,098	414,015
362	977		285° 17'	" "	6.0	90° 40'	-11.4	-17.4		3961.3		+520	-827	1,993,939	414,303
363	649		283° 31'	" "	7.3	90° 40'	-7.5	-14.8		3963.9		+329	-560	1,993,748	414,570
364	327		281° 02'	" "	6.7	90° 40'	-3.8	-10.5		3968.2		+153	-289	1,993,572	414,841
365	0				5.2	-		-5.2		3973.5	X	0	0	1,993,419	415,130
366	330		95° 36'	+16.9°	5.5	89° 10'	+4.8	0.7		3978.0		-124	+305	1,993,293	415,435

SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

DATE	3.19.83	INSTRUMENT MAN	B. Cotcamp	ROD MAN	D. Hamilton	PARTY NUMBER	6834	NOTES CHECKED BY	[Signature]	LINE NO.	1	PAGE	24
AREA	NEVADA	TOPO MAP	Blue Wing Flat Sec. 7 1/2	STATE	NEVADA	COUNTY	PERKINS	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.	
									3978.7					
367	699		94° 29'	+16.9	6.0	89° 10'	+9.6	+3.6		3982.3		-240	+614	1,993,179 415,744
368	989		94° 09'	" "	5.7	89° 10'	+14.4	+8.7		3987.4		-355	+923	1,993,064 416,053
369	1318		95° 02'	" "	5.2	89° 10'	+19.2	+14.0		3992.7		-492	+1223	1,992,927 416,353
370	1647		96° 00'	" "	6.9	89° 10'	+23.9	+17.0		3995.7		-641	+1517	1,992,778 416,647
371	1975		97° 13'	" "	7.2	89° 10'	+28.7	+21.5		4000.2		-807	+1803	1,992,612 416,933
371	2141		97° 29' 31"	+16.9	7.4	89° 10'	+31.1	+23.7		4002.4	371	-884	+1950	1,992,535 417,080
372	2304		97° 43'	" "	10.0	89° 10'	+33.5	+23.5		4002.2		-960	+2095	1,992,459 417,225
373	2633		97° 12'	" "	10.8	89° 10'	+38.3	+27.5		4006.2		-1075	+2403	1,992,344 417,533
374	2963		96° 51'	" "	11.0	89° 10'	+43.1	+32.1		4010.8		-1193	+2712	1,992,226 417,842
375	3292		96° 41' 18"	" "	10.6	89° 10'	+47.9	+37.3		4016.0	TP	-1317	+3017	1,992,104 418,145
375	3292				6.8	89° 14'	+44.0	+37.2			TP	+2	-2	
	3277		283° 09' 34" -180	+16.9	12.2	90° 50'	+47.7	+59.9	4075.9		BS	-1641	+2836	
	3277			+8.4		90° 54'	+51.5	+59.9			BS	+2	-2	
376	2951		284° 05'	+16.9	11.0	90° 50'	-42.9	-53.9		4022.0		+1519	-2530	1,991,984 418,449
377	2626		285° 17'	" "	10.7	90° 50'	-38.2	-48.9		4027.0		+1399	-2223	1,991,864 418,756
378	2299		286° 23'	" "	10.8	90° 50'	-33.4	-44.2		4031.7		+1262	-1922	1,991,727 419,057
379	1971		287° 13'	" "	9.7	90° 50'	-28.7	-38.4		4037.5		+1105	-1632	1,991,570 419,347
380	1641		287° 42'	" "	9.9	90° 50'	-23.9	-33.8		4042.1		+932	-1351	1,991,397 419,628
381	1312		288° 44'	" "	8.6	90° 50'	-19.1	-27.7		4048.2		+763	-1067	1,991,228 419,912

1,992,535 x-417,080  
 1/4 4 WAY INT. EL 4002.6  
 HORIZ Y -730'  
 CORR. X -5'

SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
3.19.83		B. Cotcamp		D. Hamilton		6834		D.H.		1	25			
AREA		TOPO MAP	STATE	COUNTY	TWP	RANGE	PPM	PARTY MANAGER						
NEVADA			NEVADA	Pershing				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.	
									4075.9					
382	987		291° 24'	+16.9°	7.3	90° 50'	-7.4	-21.7		4054.2		+612	-775	1,991,077 420,204
383	660		294° 13'	"	6.7	90° 50'	-9.6	-76.3		4059.6		+434	-497	1,990,899 420,482
384	330		" "	"	6.3	90° 50'	-4.8	-71.1		4064.8		+217	-249	1,990,682 420,730
385	0				5.2	-		-5.2		4070.7	X	0	0	1,990,465 420,979
386	330		101° 32'	+16.9°	5.2	89° -	+5.8	+0.6		4076.5		-157	+290	1,990,308 421,269
387	660		99° 11'	"	5.2	89° -	+11.5	+6.3		4082.2		-291	+592	1,990,174 421,571
388	989		97° 52'	"	5.7	89° -	+17.3	+11.6		4087.5		-414	+898	1,990,151 421,877
389	1318		96° 36'	"	5.8	89° -	+23.0	+17.2		4093.1		-526	+1209	1,989,939 422,188
390	1648		96° 25'	"	5.5	89° -	+28.8	+23.3		4099.2		-652	+1513	1,989,813 422,492
391	1977		95° 58'	+16.9°	4.8	89° -	+34.5	+29.7		4105.6		-768	+1822	1,989,697 422,801
392	2307		95° 28'	"	8.8	88° 52'	+45.6	+36.8		4112.7		-878	+2133	1,989,587 423,112
393	2636		95° 04'	"	9.0	88° 52'	+52.1	+43.1		4119.0		-986	+2445	1,989,479 423,424
394	2964		94° 30'	"	8.9	88° 52'	+58.6	+49.7		4125.6		-1081	+2760	1,989,384 423,739
395	3292		93° 46' 48"	"	10.2	88° 50'	+67.0	+56.8			TP	-1162	+3079	1,989,305 424,056
395	3292				14.0	88° 46'	+70.9	+56.9		4132.8	TP			
	3553		282° 53' 31" - 180	+16.9°	9.8	91° 06'	+68.2	+78.0		4210.8	BS	-1765	+3083	
	3553				13.9	91° 02'	+64.1	+78.0			BS			
396	3250		285° 07'	+16.9°	8.9	91° 06'	-62.4	-71.3		4139.5		+1723	-2756	1,989,265 424,381
397	2951		287° 38'	"	6.9	91° 06'	-56.6	-63.5		4147.3		+1673	-2431	1,989,215 424,706

SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3-19-83		B. Cotcamp		D. Hamilton		6834		D.H.		1		26			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
NEVADA				NEVADA		PERSHING								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
									4210.8						
398	2624		287° 57'	+16.9°	7.6	91° 06'	50.4	58.0		4152.8		+1499	-2153	1,989,041	424,984
399	2295		287° 32'	" "	7.0	91° 06'	44.0	51.0		4159.8		+1298	-1893	1,988,840	425,244
400	1967		287° 12'	" "	11.0	91° -	34.3	45.3		4165.5		+1103	-1629	1,988,645	425,508
401	1639		288° 14'	" "	8.1	91° -	28.6	36.7		4174.1		+943	-1340	1,988,485	425,797
402	1310		288° 51'	+16.9°	10.6	91° -	22.9	33.5		4177.3		+765	-1063	1,988,307	426,074
403	982		287° 22'	" "	7.8	91° -	17.1	24.9		4185.9		+553	-812	1,988,095	426,325
404	653		286° 37'	" "	6.8	91° -	11.4	18.2		4192.6		+361	-544	1,987,903	426,593
405	330		285° 49'	" "	7.0	91° -	5.8	12.8		4198.0		+169	-284	1,987,711	426,853
406	0				5.2	-	-	-5.2		4205.6	A	0	0	1,987,542	427,137
407	330		105° 51'	+16.9°	6.3	88° 40'	+7.7	+1.4		4212.2		-179	+278	1,987,363	427,415
408	654		111° 54'	" "	9.0	88° 40'	+15.2	+6.2		4217.0		-410	+510	1,987,132	427,647
409	971		118° 10'	" "	10.0	89° -	+16.9	+6.9		4217.7		-687	+686	1,986,855	427,823
410	1277		120° 23'	" "	11.3	89° 10'	+18.6	+7.3		4218.1		-938	+866	1,986,604	428,003
411	1579		124° 16'	" "	7.9	89° 10'	+23.0	+15.1		4225.9		-1230	+990	1,986,312	428,127
412	1900		126° 07'	+16.9°	10.0	89° -	+33.2	+23.2		4234.0		-1518	+1143	1,986,024	428,280
413	2223		124° 20'	" "	9.1	89° -	+38.8	+29.7		4240.5		-1733	+1392	1,985,809	428,529
414	2537		121° 57'	" "	8.1	89° -	+44.3	+36.2		4247.0		-1910	+1669	1,985,632	428,806
415	2842		119° 15'	" "	6.7	89° -	+49.6	+42.9		4253.7		-2050	+1969	1,985,492	429,106
416	3147		116° 52'	" "	9.8	88° 54'	+60.4	+50.6		4261.4		-2177	+2273	1,985,365	429,410

SURVEY NOTES-HIGH RESOLUTION DATA  
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3-28-83		B. Cotcamp		D. Hammon		6834		D.H.		1		27			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
Nevada		Lowry well - 7 1/2		NEVADA		PERSHING								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
Sec. corner	3366		113° 03' 28"	+16.9	13.1	88° 48'	+70.5	+57.4		4268.2	sec. corner	-2161	+2580	1,985,381	429,717
417	3466		115° 15' 51"	+16.9	11.7	88° 50'	+70.6	+58.9		4269.6	TP	-2334	+2562	1,985,210	429,697
417	3466				13.9	88° 48'	+72.6	+58.7			TP	+2	-2		
	5189		284° 39' 11" - 180	+16.7	8.7	91° 24'	+126.8	+135.5			BS	-2699	+4430		
	5189				8.8	268° 36'	+126.8	+135.6		4405.2	BS	+2	-2		
418	4860		284° 53'	+16.7	9.9	91° 24'	-118.7	-128.6		4276.6		+2545	-4140	1,985,058	429,985
419	4536		285° 37'	"	10.5	91° 24'	-110.8	-121.3		4283.9		+2425	-3833	1,984,938	430,292
420	4217		284° 40'	"	10.7	91° 24'	-103.0	-113.7		4291.5		+2195	-3601	1,984,708	430,524
421	3915		282° 48'	"	10.0	91° 26'	-97.9	-107.9		4297.3		+1928	-3407	1,984,441	430,718
422	3605		281° 13'	"	9.8	91° 26'	-90.2	-100.0		4305.2		+1688	-3185	1,984,201	430,940
423	3284		282° 26'	+16.7	10.8	91° 26'	-82.1	-92.9		4312.3		+1599	-2869	1,984,112	431,256
424	2963		283° 49'	"	11.1	91° 26'	-74.1	-85.2		4320.0		+1505	-2553	1,984,018	431,572
425	2634		284° 02'	"	11.2	91° 26'	-65.9	-77.1		4328.1		+1346	-2264	1,983,859	431,861
426	2304		284° 22'	"	11.8	91° 26'	-57.6	-69.4		4335.8		+1189	-1974	1,983,702	432,151
427	1975		284° 31'	"	9.7	91° 30'	-51.7	-61.4		4343.8		+1024	-1689	1,983,537	432,436
428	1645		284° 58'	+16.7	8.8	91° 30'	-43.0	-51.8		4353.4		+864	-1400	1,983,377	432,725
429	1316		284° 32'	"	11.7	91° 30'	-34.4	-46.1		4359.1		+682	-1125	1,983,195	433,000
430	987		286° 01'	"	10.8	91° 30'	-25.8	-36.6		4368.6		+533	-830	1,983,046	433,295
431	659		288° 15'	"	9.9	91° 30'	-17.2	-27.1		4378.1		+378	-540	1,982,891	433,583
432	330		290° 29'	"	7.7	91° 30'	-8.6	-16.3		4388.9		+199	-263	1,982,712	433,862

SURVEY NOTES-HIGH RESOLUTION DATA  
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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
3-28-83		B. Cotcamp		D. Hamilton		6834		D.H.		1	28			
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER			
NEVADA		LOWRY WELL-7 1/2		NEVADA		Pershing					L. Davis			
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									4405.2					
433	0				5.2	-		-5.2		4400.0	X	0	0	1,982,513 434,125
434	327		106° 29'	+16.7°	8.9	88° 20'	+9.5	+0.6		4405.8		-149	+291	1,982,364 434,416
435	656		96° 56'	"	7.6	88° 20'	+19.1	+11.5		4416.7		-263	+601	1,982,250 434,726
436	978		101° 17'	"	7.9	88° 20'	+28.4	+20.5		4425.7		-459	+864	1,982,054 434,989
437	1295		105° 44'	"	7.8	88° 20'	+37.6	+29.8		4435.0		-695	+1093	1,981,818 435,218
438	1624		106° 46'	"	8.3	88° 20'	+47.2	+38.9		4444.1		-896	+1355	1,981,617 435,480
439	1923		102° 28'	+16.7°	8.5	88° 20'	+55.9	+47.4		4452.6		-937	+1679	1,981,576 435,804
440	2235		99° 34'	"	8.0	88° 20'	+65.0	+57.0		4462.2		-989	+2004	1,981,524 436,129
441	2562		99° 40'	"	8.8	88° 20'	+74.5	+65.7		4470.9		-1138	+2295	1,981,375 436,420
442	2891		99° 25'	"	9.2	88° 20'	+84.0	+74.8		4480.0		-1273	+2596	1,981,240 436,721
443	3220		99° 12'	"	9.2	88° 20'	+93.6	+84.4		4489.6		-1407	+2897	1,981,106 437,022
444	3545		98° 21'	+16.7°	10.0	88° 20'	+103.1	+93.1		4498.3		-1501	+3212	1,981,012 437,337
445	3874		98° 08'	"	8.9	88° 20'	+112.6	+103.7		4508.9		-1627	+3516	1,980,886 437,641
446	4203		98° 21'	"	8.6	88° 20'	+122.2	+113.6		4518.8		-1780	+3808	1,980,733 437,933
447	4530		97° 54'	"	7.9	88° 20'	+131.7	+123.8		4529.0		-1886	+4119	1,980,627 438,244
448	4860		97° 44' 12"	"	7.2	88° 20'	+141.4	+134.2		4539.3	TP	-2010	+4423	1,980,505 438,546
448	4860				7.5	211° 40'	+141.4	+133.9	+134.13		TP	+2	-2	
	2604		268° 04' 54" -180°	+16.7°	11.0	91° 40'	+75.7	+86.7	4626.1		BS	-664	+2517	
	2604				8.1	91° 44'	+78.8	+86.9	4626.1		BS	+2	-2	
449	2277		267° 02'	"	10.0	91° 40'	-66.2	-76.2		4549.9		+541	-2212	1,980,384 438,849

SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3-28-83		B. Cotcamp		D. Hamilton		6834		D.H.		1		29			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
NEVADA		LOURY WELL - 7 1/2'		NEVADA		Pershing								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
									4626.1						
450	1950		266° 29'	+16.7°	9.7	91° 40'	36.7	-66.4		4559.7		+445	-1899	1980,288	439,162
451	1622		265° 45'	" "	9.0	91° 40'	-47.2	-56.2		4569.9		+350	-1584	1980,193	439,477
452	1302		262° 51'	" "	9.7	91° 40'	-37.8	-47.5		4578.6		+216	-1284	1980,059	439,777
453	978		259° 39'	" "	8.2	91° 40'	-28.4	-36.6		4589.5		+108	-972	1979,151	440,089
454	655		254° 59'	" "	7.3	91° 40'	-19.0	-26.3		4599.8		+19	-655	1979,822	440,406
455	330		250° 43'	" "	6.3	91° 40'	-9.6	-15.9		4610.2		-15	-330	1979,828	440,731
456	0				5.2	-		-5.2		4620.9	TP	0	0	1979,843	441,061
457	318		93° 09'	+16.7°	14.6	89° 30'	+2.8	-11.8		4614.3		-108	+299	1979,735	441,360
458	582		115° 50 1/2'	" "	9.7	89° 50'	+1.7	-8.0		4618.1	TP	-393	+429	1979,450	441,490
458	645		97° 16'	" "	13.0	89° 10'	+9.4	-3.6		4622.5		-262	+589	1979,581	441,650
459	974		98° 28'	" "	9.8	89° 10'	+14.2	+4.4		4630.5		-414	+882	1979,429	441,943
460	1297		95° 58'	" "	6.9	89° -	+22.6	+15.7		4641.8		-500	+1197	1979,343	442,258
461	1623		94° 19'	" "	7.1	88° 50'	+33.0	+25.9		4652.0		-582	+1515	1979,261	442,576
462	1945		94° 38'	+16.7°	7.2	88° 40'	+45.2	+38.0		4664.1		-708	+1812	1979,135	442,873
463	2270		93° 29'	" "	10.9	88° 30'	+59.4	+48.5		4674.6		-783	+2131	1979,060	443,192
464	2606		93 21 40"	" "	7.6	88° 30'	+68.1	+60.5		4686.6	TP	-892	+2441	1979,953	443,500
464	2600				15.1	88° 20'	+75.6	+60.5			TP	+2	-2		
	1054		270 19 24 - 180	+16.7°	16.5	91° 40'	+30.7	+41.2	4727.8		BS	-308	+1007		
	1054			" "	13.5	91° 30'	+27.6	+41.1			BS	+2	-2		
465	753		278° 51'	" "	9.9	91° 40'	-21.9	-31.8		4696.0		+325	-679	1978,972	443,826

EAST STA ON CAMP  
CROSS COUNTRY  
1979,400 x 441,425  
FIRST ENTER

FIRST STA. BACK ON CAMP

SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE							
3-28-83		B. Cotcamp		D. Hamilton		6834		D.H.		1		30							
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER					
NEVADA		Lowry well - 7'1/2'		NEVADA		Pershing								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				
									4727.8										
466	477		294° 24'	+16.7°	7.1	91° 40'	-13.9	-21.0		4706.8		+314	-359	1,978,961	444,146				
467	153		301° 48'	" "	5.4	91° 40'	-4.4	-9.8		4718.0		+115	-101	1,978,762	444,404				
X	0				5.2	-		-5.2		4722.6	X	0	0	1,978,647	444,505				
468	174		286° 55'	+16.7°	6.6	88° -	+6.1	0.5		4727.3		-96	+145	1,978,551	444,650				
469	494		94° 05'	" "	6.8	88° -	+17.2	+10.4		4738.2		-175	+462	1,978,472	444,967				
470	761		77° 43'	" "	5.0	88° -	+26.5	+21.5		4749.3		-59	+759	1,978,588	445,264				
471	1065		77° 03'	" "	8.1	87° 44'	+42.1	+34.0		4761.8		-70	+1063	1,978,577	445,568				
TP	1226		79° 15' 49"	" "	10.1	87° 40'	+49.9	+39.8			TP	-127	+128	1,978,522	445,721				
TP	1226				13.6	87° 30'	+53.5	+39.9		4767.7	TP	"	"						
	2898		286° 40' 47" - 180°	+16.7°	7.4	92° 16'	+109.6	+117.0			BS	-1593	+2418						
	2898				14.3	92° 02'	+102.8	+117.1	4884.8		BS	"	"						
472	2744		285° 11'	+16.7°	19.8	91° 56'	-92.5	-112.3		4772.5		+1449	-2330	1,978,380	445,807				
473	2421		284° 40'	" "	25.0	91° 35'	-66.9	-91.9		4792.9		+1260	-2067	1,978,191	446,070				
474	2098		286° 13'	" "	11.8	92° 10'	-79.3	-91.1		4793.7		+1140	-1761	1,978,071	446,376				
475	1771		287° 21'	" "	8.5	92° 20'	-72.0	-80.5		4804.3		+992	-1467	1,977,923	446,670				
476	1454		286° 00'	+16.7°	9.0	92° 20'	-59.1	-68.1		4816.7		+786	-1224	1,977,777	446,913				
477	1139		290° 14'	" "	10.3	92° 20'	-46.3	-56.6		4828.2		+684	-910	1,977,615	447,227				
478	826		295° 32'	" "	12.3	92° 20'	-33.6	-45.9		4838.9		+555	-612	1,977,486	447,525				
479	513		286° 26'	" "	10.3	92° 40'	-23.8	-34.1		4850.7		+280	-430	1,977,211	447,707				
480	226		258° 42'	" "	12.2	93° -	-11.8	-24.0		4860.8		+21	-225	1,976,952	447,912				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
3.28.83		B. Cotcamp		D. Hamilton		6834		B.C.		1		31				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
NEVADA		LOWRY WELL - 7 1/2'		NEVADA		PERNSING								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	X
TP	0				5.2	-		-5.2	4884.8	4879.6	TP	0	0	1,976,931	448,137	OFF LINE ON TOP OF MTL
481	146		136° 57'	+16.7	10.0	91° -	2.5	12.5		4872.3		-131	+65	1,976,800	448,202	
482	470		131° 08'	" "	11.8	88° 46'	+10.9	0.9		4883.9		-398	+250	1,976,533	448,387	
483	743		114° 00'	" "	6.7	88° 46'	+17.3	+10.6		4895.4		-485	+563	1,976,446	448,700	
484	1046		105° 10'	" "	9.1	88° 10'	+33.3	+24.2		4909.0		-549	+883	1,976,382	449,020	
485	1346		99° 20'	+16.7	14.3	87° 50'	+50.9	+36.6		4921.4		-591	+1209	1,976,340	449,346	
486	1660		99° 15'	" "	7.9	87° 50'	+62.7	+54.8		4939.6		-726	+1493	1,976,205	449,630	
487	1943		104° 22'	" "	7.1	87° 40'	+79.0	+71.9		4956.7		-1003	+1664	1,975,928	449,801	
488	2259		106° 45'	" "	10.9	87° 22'	+103.7	+92.8		4977.6		-1245	+1885	1,975,686	450,022	
TP	2409		107° 38' 49"	" "	6.3	87° 20'	+112.1	+105.8		4990.6	TP	-1358	+1987	1,975,575	450,121	
TP	2409			" "	13.3	87° 10'	+119.1	+105.8			TP	+2	-3			
	2735		291° 09' 50" - 180°	+16.7	7.3	92° 20'	+111.4	+118.7	5109.3		BS	-1677	+2157			
	2735			" "	13.6	92° 12'	+105.0	+118.6			BS	+2	-3			
489	2566		290° 09'	+16.7	16.5	92° 21'	+107.4	+117.9		4991.4		+1539	-2053	1,975,439	450,222	
490	2237		289° 57'	" "	6.8	92° 30'	-97.5	+104.3		5005.0		+1335	-1795	1,975,235	450,480	
491	1908		290° 37'	" "	11.3	92° 30'	-83.2	+94.5		5014.8		+1152	-1521	1,975,052	450,754	
492	1599		294° 01'	" "	6.0	92° 40'	-74.3	+80.3		5029.0		+1043	-1212	1,974,943	451,063	
493	1289		297° 17'	" "	6.9	92° 40'	-59.9	+66.8		5042.5		+895	-927	1,974,795	451,348	
494	965		299° 14'	" "	9.7	92° 40'	-44.8	-54.5		5054.8		+693	-671	1,974,593	451,604	
495	645		303° 47'	" "	7.8	92° 40'	30.0	+37.8		5071.5		+498	-410	1,974,398	451,865	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 3-27-83	INSTRUMENT MAN B. Cotcamp	ROD MAN D. Hamilton	PARTY NUMBER 6834	NOTES CHECKED BY B.C.	LINE NO. 1	PAGE 32
AREA NEVADA	TOPO MAP Lowly Well - 1/2'	STATE NEVADA	COUNTY Pershing	TWP	RANGE	PPM
PARTY MANAGER L. Davis						

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS	
												LAT.	DEP.	Y	X				
									5109.3										
496	330		311° 47'	+16.7	7.3	92° 40'	-15.4	-22.6		5086.7		+281	-173	1,974,181	452,102				
497	0				5.2	-		-5.2		5104.1	X	0	0	1,973,900	452,275			y=1,973,730 x=452,390	
IF	160		126° 23' 24"	+16.7	4.7	87° -	+8.4	+3.7		5113.0	IF	-128	+96	1,973,772	452,371			IF T-RO. SOUTH	
498	330		127° 09'	"	5.0	87° -	+17.2	+12.2		5121.5		-266	+195	1,973,634	452,470				
499	666		128° 47'	"	6.3	86° 50'	+36.4	+30.1		5139.4		-544	+374	1,973,356	452,649				
500	986		130° 58'	"	8.0	86° 50'	+54.4	+46.4		5155.7		-833	+527	1,973,067	452,802				
WELL	1176		129° 45' 52"	"	11.4	86° 50'	+64.9	+53.5		5162.8	WELL								
501	1308		130° 24'	+16.7	5.8	86° 50'	+72.1	+66.3		5175.6		-1098	+710	1,972,802	452,985				
502	1597		124° 07'	"	7.8	86° 50'	+88.1	+80.3		5189.6		-1238	+1009	1,972,662	453,284				
503	1966		120° 19'	"	8.6	86° 50'	+105.1	+96.5		5205.8		-1394	+1299	1,972,506	453,574				
504	2209		116° 49'	"	7.0	86° 40'	+128.2	+121.2		5230.5		-1521	+1602	1,972,379	453,877				
505	2522		114° 18'	"	11.1	86° 40'	+146.4	+135.3		5244.6		-1654	+1903	1,972,246	454,178				
506	2842		112° 35' 55"	"	8.6	86° 40'	+165.2	+156.6	} +156.8	5266.1	TP	-1797	+2196	1,972,105	454,468				
506	2842				8.3	273° 20'	+165.2	+156.9				TP	+2	-3					

SURVEY NOTES-HIGH RESOLUTION DATA  
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
3-27-83		B. Cotcamp		D. Hamilton		6834		B.C.		1		33				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
NEVADA				NEVADA		Pershing								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
BS	1899		289° 42' 26" -180°	+16.7	9.2	92° 40'	+83.4	+97.6	5363.7	5266.1	BS	-1126 <sup>+2</sup>	+1527 <sup>-3</sup>			
BS	1899				14.8	92° 30'	+82.8	+97.6			BS					
507	1574		291° 32'	+16.7	9.2	92° 50'	-77.7	-86.9		5276.8		+974	-1236	1,971,955	454,756	
508	1250		294° 01'	" "	11.1	92° 50'	-61.7	-72.8		5290.9		+815	-947	1,971,796	455,045	
509	921		" "	" "	9.6	92° 50'	-45.5	-55.1		5308.6		+601	-698	1,971,582	455,294	
510	605		288° 04'	" "	9.7	93° 10'	-33.4	-43.1		5320.6		+345	-497	1,971,326	455,495	
511	316		268° 22'	" "	10.5	93° 10'	-17.4	-27.9		5335.8		+82	-305	1,971,063	455,687	
512	0				5.2	-	-	-5.2		5358.5	X	0	0	1,970,981	455,992	across STA.
513	328		73° 16'	+16.7	8.0	88° -	+11.4	+3.4		5367.1		+0	+328	1,970,981	456,320	
514	656		75° 45'	" "	7.3	88° -	+22.9	+15.6		5379.3		-28	+655	1,970,953	456,647	
515	972		69° 18'	" "	7.2	86° 50'	+53.6	+46.4		5410.1		+68	+970	1,971,049	456,962	
516	1294		71° 24'	" "	9.8	85° 40'	+97.5	+87.7		5451.4		+43	+1293	1,971,024	457,285	
517	1619		73° 21'	+16.7	5.7	85° 20'	+131.3	+125.6		5489.3		-4	+1619	1,970,977	457,611	
518	1878		70° 31'	" "	8.8	84° 50'	+168.4	+159.6		5523.3		+88	+1876	1,971,069	457,868	
TP	1765		68° 12' 47"	" "	8.6	84° 40'	+164.1	+155.5		5519.2	TP	+156 <sup>+2</sup>	+1750 <sup>-3</sup>	1,971,139	457,739	
TP	1765				13.8	84° 30'	+169.2	+155.4			TP					
	383		251° 23' 59" -180°	+16.7	13.6	85° 40'	-28.9	-75.3	5503.9		BS	+13 <sup>+2</sup>	+382 <sup>-3</sup>			
	383				14.7	85° 30'	-30.0	-75.3			BS					
519	0				5.2	-	-	-5.2		5498.7	X	0	0	1,971,154	458,118	

SURVEY NOTES-HIGH RESOLUTION DATA  
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3-29-83		B. Cotcamp		D. Hamilton		6834		B.C.		1		34			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
NEVADA		Toucan - 15		NEVADA		Pershing								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
									5503.9						
520	330		92° 35' 26"	+16.7°	8.3	93° 30'	-20.1	-28.4		5475.5	TP	-109	+311	1,977,047	458,426
520	330				9.3	93° 20'	-19.2	-28.5			TP	+2	-3		
	2211		281° 43' 46" -180°	+16.4°	8.2	86° -	-754.2	-746.0	5329.5		BS	-1040	+1945		
	2211			+	8.1	774° -	-754.2	-746.1			BS	+2	-3		
521	1883		282° 44'	+16.4°	11.0	86° -	+131.0	+120.0		5449.5		+917	-1645	1,970,126	458,723
522	1576		286° 32'	" "	9.8	86° 10'	+105.1	+95.3		5424.8		+857	-1323	1,970,866	459,045
523	1262		287° 39'	" "	6.9	86° 50'	+69.6	+62.7		5392.2		+707	-1046	1,970,716	459,322
524	949		283° 13'	" "	6.9	87° 40'	+38.6	+31.7		5361.2		+469	-825	1,970,478	459,543
525	659		274° 24'	" "	6.0	87° 30'	+28.7	+22.7		5352.2		+234	-616	1,970,293	459,752
526	330		272° 19'	" "	11.2	87° 30'	+14.4	+3.2		5332.7		+106	-313	1,970,115	460,055
527	0				5.2	-		-5.2		5324.3	X	0	0	1,970,009	460,368
528	327		95° 14'	+16.4°	8.1	93° 10'	-78.0	-26.1		5303.4		-121	+304	1,969,988	460,672
529	649		97° 50'	" "	7.8	92° 30'	-28.3	-36.1		5293.4		-266	+592	1,969,743	460,960
530	975		94° 44'	" "	8.3	92° 20'	-39.7	-48.0		5281.5		-352	+909	1,969,657	461,277
section corner	1192		99° 53' 30"	" "	7.0	91° 20'	-27.7	-34.7		5294.8	sec. corner	-528	+1068	1,969,481	461,436
531	1304		93° 33'	" "	7.6	92° 10'	-49.3	-56.9		5272.6		-445	+1226	1,969,564	461,594
532	1630		92° 15'	" "	8.8	92° -	-56.9	-65.7		5263.8		-521	+1544	1,969,488	461,912
533	1944		89° 34'	" "	11.3	92° 20'	-79.1	-90.4		5239.1		-535	+1869	1,969,474	462,237
534	2267		90° 32'	" "	8.0	92° 10'	-85.6	-93.6		5235.9		-660	+2169	1,969,349	462,537

y = 1,969,415 x = 461,510  
sec. corner 3324 513

SURVEY NOTES-HIGH RESOLUTION DATA  
GEO-445

Geosource Inc.

DATE	3-29-83	INSTRUMENT MAN	B. Cotcamp	ROD MAN	D. Hamilton	PARTY NUMBER	6834	NOTES CHECKED BY	B.C.	LINE NO.	1	PAGE	35
AREA	NEVADA	TOPO MAP	Touhon - 15'	STATE	NEVADA	COUNTY	Pershing	TWP		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.	
									5329.5					
535	2581		88° 33'	+16.4°	5.0	92° -	-90.0	-95.0		5234.5		-666	+2494	1,969,343 462,862
536	2905		87° 15' 41"	" "	10.6	92° 04'	-104.8	-115.4		5214.1	TP	-686	+2821	1,969,325 463,186
536	2905				14.1	92° -	-101.4	-115.5			TP	+2	-3	
	1275		291° 41' 17" -180°	+16.4°	14.2	86° -	-88.9	-74.7	5139.4		BS	-785	+1001	
	1275				10.5	86° 10'	-85.2	-74.7			BS	+2	-3	
537	975		294° 54'	+16.4°	6.8	86° 50'	+53.8	+47.0		5186.4		+644	-732	1,969,186 463,452
538	652		289° 58'	" "	10.7	87° 10'	+32.2	+21.5		5160.9		+387	-525	1,968,929 463,659
539	330		284° 55'	" "	6.5	87° 10'	+16.3	+9.8		5149.2		+172	-282	1,968,714 463,902
540	0				5.2	-	-	-5.2		5134.2	X	0	0	1,968,542 464,184
541	328		99° 36'	+16.4°	6.7	91° 46'	-9.5	-16.2		5123.2		-144	+295	1,968,398 464,479
542	571		71° 17'	" "	9.8	92° -	-19.9	-29.7		5109.7		+23	+571	1,968,565 464,755
543	887		64° 26'	" "	11.9	92° -	-30.9	-42.8		5096.6		+141	+876	1,968,683 465,060
544	1178		71° 25'	" "	9.2	91° -	-20.6	-29.8		5109.6		+45	+1177	1,968,587 465,361
TP	1224		71° 47' 08"	" "	11.1	90° 50'	-17.8	-28.9		5110.5	TP	+39	+1223	1,968,585 465,404
TP	1224				7.5	91° -	-21.4	-28.9			TP	+4	-3	
	903		254° 25' 47" -180°	+16.4°	6.9	88° -	-31.5	-24.6	5085.9		BS	-13	+902	
	903				4.3	88° 10'	-28.9	-24.6			BS	+4	-4	
545	652		244° 58'	+16.4°	6.5	87° -	+34.1	+27.6		5113.5		-98	-645	1,968,478 465,657
546	330		238° 28'	" "	6.8	87° -	+17.2	+10.4		5096.3		-86	-319	1,968,420 465,983
Y	251		238° 22' 22"	" "	6.0	87° -	+13.1	+7.1		5093.0	Y	-66	-242	1,968,510 466,060

3-1968, 510 x - 466, 060  
MORIS 4-52  
2002 x - 61  
Y/centers

SURVEY NOTES-HIGH RESOLUTION DATA

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
3-28-83		B. Cotcamp		D. Hamilton		6834		KBLG		1	26					
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER					
NEVADA		Toulon -7 1/2		NEVADA		Pershing					L. Davis					
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
									5085.9							
547	0				5.2	-		-5.2		5080.7	X	0	0	1968,576	466,302	LAST STA. ON ROAD
548	330		86° 38'	+16.4°	8.3	94°	-23.0	31.3		5054.6		-74	+322	1968,502	466,624	CROSS COUNTRY TO 850 -1968,710 X- 467,100
549	758		63° 59' 15"	" "	12.4	93° 10'	-41.8	54.2		5031.7	TP	+126	+746	1968,702	467,048	1/2 - ROAD NORTH EL. 5031.0
549	660		86° 41'	" "	10.2	93° 40'	-42.1	52.3		5033.6		-149	+643	1968,427	466,945	
550	986		87° 13' 27"	" "	5.6	93°	51.6	57.2		5028.7	TP	-232	+957	1968,342	467,256	FIRST STA. BACK ON ROAD
550	986				8.5	92° 50'	48.7	57.2			TP					
	1628		275° 31' 04" -180	+16.4°	12.3	87° 10'	-80.5	-68.2			BS	-554	+1529			
	1628				7.6	87° 20'	75.7	-68.1	4960.6		BS					
551	1311		274° 52'	+16.4°	12.2	87° 20'	+60.9	+48.7		5009.3		+476	-1222	1968,262	467,560	
552	986		272° 22'	" "	8.0	87° 20'	+45.8	+37.8		4998.4		+317	-934	1968,103	467,848	
553	659		269° 14'	" "	6.6	87° 10'	+32.5	+25.9		4986.5		+178	-635	1967,964	468,147	
554	330		267° 42'	" "	6.7	87° 10'	+16.3	+9.6		4970.2		+80	-320	1967,856	468,462	
555	0				5.2	-		-5.2		4955.4	X	0	0	1967,786	468,782	
556	330		90° 03'	+16.4°	6.0	93° 30'	20.1	26.1		4934.5		-93	+316	1967,693	469,098	
557	656		95° 38'	" "	14.6	94°	45.7	60.3		4900.3		-246	+608	1967,540	469,390	
TP	772		107° 22' 59"	" "	10.2	92° 50'	38.2	48.4			TP	-429	+641	1967,355	469,420	
TP	772				7.9	93°	40.4	48.3		4912.3	TP					
	1771		276° 17' 25" -180	+16.4°	11.8	87° 10'	-87.5	-75.7	4836.6		BS	-682	+1632			
	1771				6.6	87° 20'	-82.4	-75.8			BS					

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
3.30.83		B. Colcamp		D. Hamilton		6834		KLG		1	37					
AREA		TOPO MAP	STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
NEVADA		Toussar -15'	NEVADA	Peasewing					L. Davis							
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH - LAT.	EAST + WEST - DEP.	COORDINATES Y X		REMARKS
									4836.6							
558	1564		278° 09'	+16.4	15.0	87° 40'	+63.6	+48.6		4885.2		+650	-1423	1967,321	469,626	
559	1269		272° 25'	" "	9.0	88°	+44.3	+35.3		4871.9		+409	-1201	1967,080	469,848	
560	975		264° 43'	" "	9.4	88°	+34.0	+24.6		4861.2		+188	-957	1966,859	470,092	
561	650		262° 40'	" "	10.2	88°	+22.7	+12.5		4849.1		+102	-642	1966,773	470,407	
562	330		269° 42'	" "	8.0	88°	+11.5	+3.5		4840.1		+92	-317	1966,763	470,732	
563	0				5.2	-	-	-5.2		4831.4	TP	0	0	1966,671	471,049	
564	327		85° 52'	+16.4	7.8	92°	-11.4	-79.2		4817.4		-69	+320	1966,602	471,369	
565	655		84° 23'	" "	5.1	92°	-22.8	-27.9		4808.7		-123	+643	1966,548	471,692	
566	982		81° 07'	" "	7.3	92°	-34.3	-41.6		4795.0		-128	+974	1966,543	472,023	
567	1310		79° 43'	" "	10.2	92° 10'	-49.5	-59.7		4776.9		-140	+1303	1966,531	472,352	
568	1628		82° 58' 26"	" "	7.4	92° 10'	-61.5	-68.9		4767.7	TP	-265	+1605	1966,404	472,651	
568	1628				12.1	92°	-56.8	-68.9			TP					
	2242		277° 40' 50" -180	+16.4	4.9	89° 30'	-79.6	-74.7			BS	-915	+2047			
	2242				11.5	89° 20'	-26.1	-14.6	4753.1		BS					
569	1914		278° 21'	+16.4	6.5	89° 40'	+11.1	+4.6		4757.7		+801	-1738	1966,288	472,957	
570	1585		279° 30'	" "	7.1	89° 50'	+4.6	-2.5		4750.6		+692	-1426	1966,179	473,269	
571	1256		280° 20'	" "	6.0	90° 20'	-7.3	-13.3		4739.8		+565	-1122	1966,052	473,573	
572	928		281° 34'	" "	11.5	90° 40'	-10.8	-22.3		4730.8		+435	-820	1965,922	473,875	
573	607		287° 06'	" "	19.0	90° 40'	-7.1	-26.1		4727.0		+335	-506	1965,822	474,189	
574	310		306° 43'	" "	9.3	-	-	-9.3		4743.8		+248	-186	1965,735	474,509	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
3.30.83		B. Cotcamp		D. Hamilton		6834		KWG		1	38						
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER						
NEVADA		Teton-15'		NEVADA		Pershing					L. Davis						
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS	
												LAT.	DEP.	Y	X		
									4753.1								y-1,965,700 x-474,680
575	167		324° 03' 58"	+16.4	3.6	-		-3.6		4749.5	X	+157	-56	1,965,644	474,639	y-inter. EL. 4750.0	
576	0				5.2	-		-5.2		4747.9	X	0	0	1,965,487	474,695		
577	330		106° 31'	+16.4	5.0	92° 30'	-14.4	-14.4		4733.7		-180	+277	1,965,307	474,972		
578	660		" "	" "	5.7	92° 30'	-28.8	-34.5		4718.6		-360	+553	1,965,127	475,248		
579	990		" "	" "	6.4	92° 30'	-43.1	-49.5		4703.6		-539	+830	1,964,948	475,525		
580	1320		" "	" "	11.1	92° 10'	-49.9	-61.0		4692.1		-719	+1107	1,964,768	475,802		
581	1650		" "	" "	11.2	92° 10'	-62.3	-73.5		4679.6		-899	+1384	1,964,588	476,079		
582	1978		107° 08'	" "	5.7	91° 50'	-63.3	-69.0		4684.1		-1093	+1649	1,964,394	476,344		
582	2294		109° 24' 01"	" "	5.3	91° 50'	-73.4	-78.7		4674.4	TP	-1341	+1860	1,964,144	476,552		
582	2294				12.1	91° 40'	-66.7	-78.8			TP	-2	-3				
	1978		310° 33' 34" - 130	+16.4	10.1	88°	-69.0	-58.9	4615.5		BS	-1657	+1078				
	1978			+4.4		88° 10'	-63.3	-58.9			BS	-2	-3				
583	1650		310° 34'	+16.4	9.4	88° 10'	+52.8	+43.4		4658.9		+1383	-899	1,963,868	476,728	y-1,964,105 x-477,300	
sec. corner	1638		330° 10' 21"	" "	0.4	88° 50'	+33.4	+33.0		4648.5	sec. corner	+1593	-380	1,964,078	477,247	sec. corner 116 127 EL. 4649.1	
584	1320		310° 34'	" "	12.1	88° 10'	+42.2	+30.1		4645.6		+1107	-720	1,963,592	476,907		
585	990		" "	" "	11.3	88° 10'	+31.7	+20.4		4636.0		+830	-540	1,963,315	477,087		
586	660		" "	" "	8.2	88° 10'	+21.1	+12.9		4628.4		+553	-360	1,963,038	477,267		
587	330		" "	" "	4.3	88° 10'	+10.6	+6.3		4621.8		+277	-180	1,962,762	477,447		
588	0				5.2	-		-5.2		4610.3	X	0	0	1,962,485	477,627		

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
3.30.83		B. Cotcamp		D. Hamilton		6834		KLG		1	39			
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER			
NEVADA		Tollon - 15'		NEVADA		Persimung					L.O. Davis			
STATION NO.	SLOPE DISTANCE	PLOTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									4615.5					
589	330		131° 12'	+16.4°	5.9	92° 30'	-14.4	-20.3		4595.2		-279	+177	1962,206 477,804
590	660		129° 46'	"	5.8	92° 50'	-32.6	-38.4		4577.1		-548	+367	1,961,937 477,994
591	990		130° 00'	"	9.9	92° 50'	-48.9	-58.8		4556.7		-825	+548	1,961,660 478,175
592	1318		130° 34'	"	10.0	93° -	-68.9	-78.9		4536.6		-1105	+718	1,961,380 478,345
593	1648		" "	"	11.3	93° -	-86.1	-97.4		4518.1		-1382	+898	1,961,103 478,525
594	1978		130° 22' 38"	+16.7°	8.8	93° -	-103.5	-112.3		4503.2	TP	-1658	+1074	1,960,825 478,698
594	1978				14.5	92° 50'	-97.8	-112.3			TP	-2	-3	
	4944		311° 03' 24" -18°	+16.7°	7.6	88° 10'	-158.2	-150.6	4352.7		BS	-4179	+2636	
	4944				7.8	211° 50'	-158.2	-150.4	4352.7		BS	-2	-3	
595	4620		311° 06'	+16.7°	11.2	88° 16'	+147.7	+136.5		4489.2		+3909	-2462	1,960,553 478,869
596	4290		" "	"	6.4	88° 16'	+129.7	+123.3		4476.0		+3630	-2286	1,960,274 479,045
597	3960		" "	"	8.0	88° 16'	+119.7	+111.7		4464.4		+3351	-2110	1,959,995 479,221
598	3630		" "	"	8.0	88° 16'	+109.7	+101.7		4454.4		+3072	-1934	1,959,716 479,397
599	3300		311° 10'	+16.7°	7.7	88° 16'	+99.8	+92.1		4444.8		+2794	-1755	1,959,438 479,576
600	2970		" "	"	10.0	88° 16'	+89.8	+79.8		4432.5		+2515	-1580	1,959,159 479,751
601	2640		311° 09'	"	7.7	88° 20'	+76.7	+69.0		4422.7		+2235	-1405	1,958,879 479,926
602	2310		" "	"	6.2	88° 20'	+67.2	+61.0		4413.7		+1956	-1229	1,958,600 480,102
603	1980		" "	"	8.1	88° 20'	+57.6	+49.5		4402.2		+1676	-1054	1,958,320 480,277
604	1650		" "	"	9.9	88° 20'	+48.0	+38.1		4390.8		+1397	-878	1,958,041 480,453

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4-5-83		B. Cotcamp		D. Hamilton		6834		KWG		1		40			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
NEVADA		Toulon - 15'		NEVADA		Persimung								L. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									4352.7						
605	1320		311° 09'	+16.7°	10.0	88° 30'	+34.5	+24.5		4377.2		+1118	-702	1957.762	480.629
606	990		" "	" "	10.2	88° 30'	+25.9	+15.7		4368.4		+838	-527	1957.482	480.804
607	660		" "	" "	11.2	88° 30'	+17.3	+6.1		4358.8		+559	-351	1957.203	480.980
608	330		" "	" "	8.3	88° 30'	+8.6	+0.3		4353.0		+279	-176	1956.923	481.155
61	209		313° 26' 11"	+16.7°	7.7	88° 30'	+5.5	-2.2		4350.5	TP	+181	-104	1956.825	481.227
609	0				5.2	-		-5.2		4347.5	TP	0	0	1956.644	481.331
610	330		131° 03'	+16.7°	6.0	91° 30'	-8.6	-14.6		4338.1		-279	+176	1956.365	481.507
611	660		" "	" "	8.1	91° 30'	-17.3	-25.4		4327.3		-558	+352	1956.086	481.683
612	990		" "	" "	11.6	91° 30'	-25.9	-37.5		4315.2		-837	+528	1955.807	481.859
613	1320		" "	" "	10.2	91° 30'	-34.5	-44.7		4308.0		-1116	+704	1955.528	482.035
614	1650		131° 03'	+16.7°	8.1	91° 30'	-43.2	-51.3		4301.4		-1395	+880	1955.249	482.211
615	1980		" "	" "	7.5	91° 30'	-51.8	-59.3		4293.4		-1675	+1057	1954.969	482.388
616	2310		" "	" "	9.3	91° 30'	-60.5	-69.8		4282.9		-1954	+1233	1954.690	482.564
617	2640		" "	" "	10.1	91° 30'	-69.1	-79.2		4273.5		-2233	+1409	1954.411	482.740
618	2970		" "	" "	11.8	91° 30'	-77.7	-89.5		4263.2		-2512	+1585	1954.132	482.916
619	3300		" "	" "	11.8	91° 30'	-86.4	-98.2		4254.5		-2791	+1761	1953.853	483.092
620	3629		130° 56'	+16.7°	7.1	91° 36'	-101.3	-108.4		4244.3		-3065	+1943	1953.579	483.274
621	3959		130° 38'	" "	9.3	91° 36'	-110.5	-119.8		4232.9		-3333	+2137	1953.311	483.468
622	4264		128° 50' 41"	" "	9.2	91° 36'	-119.1	-128.3		4224.3	TP	-3515	+2411	1953.127	483.739
622	4264			" "	9.4	268° 24'	-119.1	-128.5			TP	-2	-3		

y. 1956.890 x -481.290  
T-RD WEST

128.5

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
4-5-83		B. Cotcamp		D. Hamilton		6834		BC		1	41			
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER			
NEVADA		Toulon - 15'		NEVADA		Persimig					L. Davis			
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
	4402		275° 04' 31" - 180	+16.7°	10.6	88° 50'	-89.6	-79.0			BS	-1633	+4087	
	4402			+	10.7	271 10'	-89.6	-78.9	4145.4		BS	-2	-3	
623	4073		275° 05'	+16.7°	12.2	88° 50'	+82.9	+70.7		4216.1		+1511	-3782	1,953,003 484,041
624	3744		" "	" "	7.8	88° 56'	+69.7	+61.9		4207.3		+1389	-3477	1,952,881 484,346
625	3413		" "	" "	10.1	88° 56'	+63.5	+53.4		4198.8		+1267	-3169	1,952,759 484,654
626	3086		" "	" "	10.0	88° 52'	+61.0	+51.0		4196.4		+1145	-2866	1,952,637 484,957
627	2756		275° 05'	+16.7°	10.0	88° 52'	+54.5	+44.5		4189.9		+1023	-2559	1,952,515 485,264
628	2426		" "	" "	10.3	88° 52'	+48.0	+37.7		4183.1		+900	-2253	1,952,392 485,570
629	2096		" "	" "	11.4	88° 52'	+41.5	+30.1		4175.5		+778	-1946	1,952,270 485,877
630	1766		" "	" "	12.0	88° 52'	+34.9	+22.9		4168.3		+655	-1640	1,952,147 486,183
631	1436		275° 05'	+16.7°	8.5	89° -	+25.1	+16.6		4162.0		+533	-1333	1,952,025 486,490
632	1106		" "	" "	10.0	89° -	+19.3	+9.3		4154.7		+410	-1027	1,951,902 486,796
633	776		" "	" "	6.3	89° -	+13.5	+7.2		4152.6		+288	-721	1,951,780 487,102
634	446		" "	" "	5.6	89° -	+7.8	+2.2		4147.6		+166	-414	1,951,658 487,409
635	117		271 13'	+16.7°	6.0	89° -	+2.0	+4.0		4141.4		+36	-111	1,951,528 487,712
$\bar{A}$	0				5.2	-		-5.2		4140.2	$\bar{A}$	0	0	1,951,492 487,823
636	216		109° 44'	+16.7°	6.0	90° 50'	-3.1	-9.1		4136.3		-128	+174	1,951,364 487,997
637	546		109° 21'	" "	5.2	90° 50'	-7.9	-13.1		4132.3		-322	+441	1,951,170 488,264
638	876		" "	" "	5.8	90° 50'	-12.7	-18.5		4126.9		-517	+707	1,950,975 488,530

ACROSS ROAD

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	4-5-83	INSTRUMENT MAN	B. Cotcamp	ROD MAN	D. Hamilton	PARTY NUMBER	6834	NO. BS CHECKED BY	B.C.	LINE NO.	1	PAGE	42	
AREA	NEVADA	TOPO MAP	Toulon -15'	STATE	NEVADA	COUNTY	PERMING	TWP		RANGE		PPM	PARTY MANAGER	L. Davis

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									4145.4					
639	1206		109° 27'	+16.7°	5.2	90° 50'	-17.5	-22.7		4122.7		-711	+974	1,950,781 488,797
640	1536		" "	" "	5.1	90° 50'	-22.3	-27.4		4118.0		-906	+1240	1,950,586 489,063
641	1866		" "	" "	4.1	90° 50'	-27.1	-31.2		4114.2		-1101	+1507	1,950,391 489,330
642	2196		109° 23'	" "	6.0	90° 40'	-25.5	-31.5		4113.9		-1293	+1775	1,950,199 489,589
643	2525		109° 43'	+16.7°	8.2	90° 36'	-26.4	-34.6		4110.8		-1499	+2032	1,949,993 489,855
644	2850		109° 30'	" "	9.1	90° 36'	-29.8	-38.9		4106.5		-1683	+2300	1,949,809 490,123
645	3180		109° 19'	" "	9.1	90° 36'	-33.3	-42.4		4103.0		-1870	+2572	1,949,622 490,395
646	3510		" "	" "	9.1	90° 36'	-36.7	-45.8		4099.6		-2064	+2839	1,949,428 490,662
647	3840		" "	" "	8.0	90° 36'	-40.2	-48.2		4097.2		-2258	+3106	1,949,234 490,929
648	4168		109° 39'	+16.7°	8.3	90° 36'	-43.6	-51.9		4093.5		-2470	+3357	1,949,022 491,180
649	4493		110° 12'	" "	12.1	90° 36'	-47.0	-59.1		4086.3		-2698	+3593	1,948,794 491,416
650	4820		109° 53'	" "	8.7	90° 36'	-53.3	-62.0		4083.4		-2873	+3870	1,948,619 491,693
TP	5040		109° 00 06"	" "	14.9	90° 33 14"	-48.7	-63.6		4081.9	TP	-2941	+4093	1,948,549 491,913
TP	5040				14.9	269° 26 56"	-48.5	-63.4	-63.53		TP	-2	-3	
	3036		316° 19' 50" -180	+16.7°	4.8	87° 40'	-123.6	-118.8	3963.1		BS	-2704	+1376	
	3036					87° 30'	-132.4	-118.8			BS			
651	2958		317° 21'	+16.7°	6.7	87° 44'	+116.9	+110.2		4073.3		+2660	-1294	1,948,503 491,992
652	2632		317° 43'	" "	5.9	88° -	+91.8	+85.9		4049.0		+2374	-1137	1,948,217 492,149
653	2302		317° 37'	" "	8.7	88° 10'	+73.6	+64.9		4028.0		+2075	-998	1,947,918 492,288

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
4-4-83		B. Cotcamp		D. Hamilton		6834		KWG		1		43				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
NEVADA		Touhon - 15'		NEVADA		Pershing								L. Davis		
STATION NO.	SLOPE DISTANCE	PLOTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
									3963.1							
654	1978		318° 14'	+16.7°	6.4	88° 20'	+57.5	+51.1		4014.2		+1792	-838	1,947,635	492,448	
655	1650		318° 01'	" "	11.0	88° 20'	+48.0	+37.0		4000.1		+1492	-705	1,947,333	492,581	
656	1320		317° 41'	" "	7.1	88° 46'	+30.7	+23.6		3986.7		+1190	-571	1,947,033	492,715	
657	990		" "	" "	11.8	88° 46'	+23.0	+11.2		3974.3		+893	-428	1,946,736	492,858	
658	660		314° 29'	" "	11.0	88° 46'	+15.4	+4.4		3967.5		+594	-287	1,946,437	492,999	
659	330		318° 31'	" "	9.1	88° 40'	+7.7	-1.4		3961.7		+300	-138	1,946,143	493,148	
660	0				5.2	-		-5.2		3957.9	TP	0	0	1,945,843	493,286	
661	330		137° 39'	+16.7°	5.6	90° 30'	-2.9	-8.5		3954.6		-297	+143	1,945,546	493,429	
662	660		" "	" "	7.1	90° 30'	-5.8	-2.9		3950.2		-595	+286	1,945,248	493,572	
#	712		136° 40' 48"	" "	7.3	90° 30'	-6.2	-3.5		3949.6	#	-637	+319	1,945,206	493,605	y-1945220 x-493610 # 4 WAY INT.
663	990		137° 39'	" "	8.0	90° 30'	-8.6	-6.6		3946.5		-892	+429	1,944,951	493,715	
664	1320		" "	+16.7°	8.3	90° 30'	-11.5	-19.8		3943.3		-1190	+571	1,944,653	493,857	
665	1650		" "	" "	11.4	90° 30'	-14.4	-25.8		3937.3		-1487	+714	1,944,356	494,000	
666	1980		" "	" "	11.6	90° 30'	-17.3	-28.9		3934.2		-1785	+857	1,944,058	494,143	
667	2310		" "	" "	12.2	90° 30'	-20.2	-32.4		3930.7		-2082	+1000	1,943,761	494,286	
668	2640		" "	" "	10.8	90° 30'	-23.0	-33.8		3929.3		-2380	+1143	1,943,463	494,429	ON INTERSTATE 80 WEST
669	2936		136° 31'	" "	13.2	90° 30'	-25.6	-38.8		3924.3		-2621	+1323	1,943,221	494,609	y-1943,037 x-494,514
Δ	3062		139° 39' 56"	+16.7°	11.6	90° 30'	-26.7	-38.3		3924.8	TP	-2805	+1228	1,943,037	494,514	TRI-STATION HOLES #29
Δ	3062				11.7	269° 30'	-26.7	-38.4			TP					GRANITE 1985 COLL. #42 U.S.G. + G.S. EL. 3926.0

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 4-6-83	INSTRUMENT MAN B. Cotcamp	ROD MAN W. Greenfield	PARTY NUMBER 6834	NOTES CHECKED BY KLW	LINE NO. 1	PAGE 44
AREA NEVADA	TOPO MAP Toulow - 15'	STATE NEVADA	COUNTY Pershing	TWP	RANGE	PPM
				PARTY MANAGER L. Davis		

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
K1	U.S.C.+G.S	TRI-STATION	- GRANet	- A35						3926.0	K1			-1943.037 x - 494.514
	2276		221 04 24 -180	+16.5	12.0	89° 40'	-13.2	-1.2	3924.8		BS	+1220	+1921	U.S.C.+G.S Bm Δ EL. 39260 GRANet 1935
	2276				+9.4	89° 44'	-10.6	-1.2			BS	-6	-6	
669 <sub>offset</sub>	<del>2332</del> 2096				10.2	TH	+10.5	+0.3		3925.1				669 OFFSET 4483.0
π	0				5.2	-		-5.2		3919.6	π	0	0	1944.251 496.429 NORTH EAST.
669	2387		44° 03' 31"	+16.5°	9.7	-		-9.7		3915.1	TP	+1173	+2079	1945.418 498.502
669	2387				4.2	90° 08'	-5.6	-9.8			TP	-6	-6	
	1657		260° 46' 44" -180	+16.5	4.4	-		+4.4			BS	-209	+1644	
	1657				+12.8	TH	-8.3	+4.5	3919.6		BS	-6	-6	CROSS COUNTRY
670	1319		260° 09'	+16.5°	7.2	-		-7.2		3912.4		+153	-1310	1945.356 498.820
671	989		" "	" "	8.0	-		-8.0		3911.6		+115	-982	1945.318 499.148
672	660		" "	" "	7.9	-		-7.9		3911.7		+76	-656	1945.279 499.474
673	330		260° 41'	+16.5°	6.0	-		-6.0		3913.6		+41	-327	1945.244 499.803
674	0				5.2	-		-5.2		3914.4	π	0	0	1945.203 500.130 FIRST STA. BACK ON ROAD
675	330		139° 31'	+16.5°	5.9	-		-5.9		3913.7		-302	+134	1944.901 500.264
676	660		" "	" "	7.1	-		-7.1		3912.5		-603	+268	1944.600 500.398
677	990		" "	" "	7.8	-		-7.8		3911.8		-905	+402	1944.298 500.532
678	1320		" "	" "	9.0	-		-9.0		3910.6		-1206	+537	1943.997 500.667
679	1651		139° 51' 11"	+16.5°	11.4	-		-11.4		3908.2	TP	-1510	+668	1943.687 500.792
679	1651				6.7	90° 10'	-4.8	-11.5			TP	-6	-6	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	4-7-83	INSTRUMENT MAN	B. Cotcamp	ROD MAN	W. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	KWG	LINE NO.	1	PAGE	45
AREA	NEVADA	TOPO MAP	TOWSON -15'	STATE	NEVADA	COUNTY	PERSHING	TWP		PPM		PARTY MANAGER	L. Davis

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS
												LAT.	DEP.	Y	X	
										3908.2						
	2897		318° 14' 42" -180	+16.5°	8.0	89° 50'	-8.4	-0.4	3907.8		BS	-2620	+1236			
	2897				+13.0	89° 44'	-13.5	-0.5		BS		-6	-6			
680	2567		318° 06'	+16.5°	6.4	89° 50'	+7.5	+1.1		3908.9		+2319	-1101	1943,380	500,921	
681	2237		318° 11'	" "	6.7	89° 50'	+6.5	-0.2		3907.6		+2022	-957	1943,083	501,065	
682	1967		" "	" "	5.9	89° 50'	+5.6	-0.3		3907.5		+1724	-815	1942,785	501,207	
683	1577		" "	" "	9.7	89° 40'	+9.2	-0.5		3907.3		+1426	-674	1942,487	501,348	
684	1247		" "	" "	8.8	89° 40'	+7.3	-1.5		3906.3		+1127	-533	1942,188	501,489	
685	917		318° 27'	+16.5°	7.0	89° 40'	+5.3	-1.7		3906.1		+831	-388	1942,892	501,634	
#	862		319° 33' 52"	" "	6.7	89° 40'	+5.0	-1.7		3906.1		+788	-350	1942,849	501,672	
686	587		318° 27'	" "	6.6	89° 40'	+3.4	-3.2		3904.6		+532	-249	1941,593	501,773	
687	258		" "	" "	5.9	89° 40'	+1.5	-4.4		3903.4		+234	-109	1941,295	501,913	
X	0				5.2	-		-5.2		3902.6	X	0	0	1941,061	502,022	
688	73		102° 11'	+16.5°	6.2	89° 40'	+0.4	-5.8		3902.0		-35	+64	1941,026	502,086	
689	403		100° 45'	" "	8.1	89° 40'	+2.3	-5.8		3902.0		-185	+358	1940,876	502,380	-1940,010 x 502,625
Bm	1246		134° 31' 40"	" "	6.4	-		-6.4		3901.4	Bm	-1090	+604	1939,971	502,626	U.S.C.+G.S Bm, EL. 3902.0
690	731		97° 48'	" "	5.9	-		-5.9		3901.9		-301	+666	1940,760	502,688	1951
691	1059		95° 42'	" "	6.4	-		-6.4		3901.4		-400	+981	1940,661	503,003	
692	1386		97° 38'	" "	6.2	-		-6.2		3901.6		-567	+1265	1940,494	503,287	
693	1713		99° 05'	" "	6.7	-		-6.7		3901.1		-740	+1545	1940,321	503,567	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
4-7-83		B. Cotcamp		W. Greenfield		6834		KUG		1	46			
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER			
NEVADA		Toucon - 15'		NEVADA		Pershing					L. Davis			
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									3907.8					
694	2033		96° 40'	+16.5°	6.6	-		-6.6		3901.2		-800	+1869	1,940,261 503,891
695	2327		93° 24'	" "	5.1	-		-5.1		3902.7		-792	+2188	1,940,269 504,210
696	2613		89° 37'	" "	3.9	-		-3.9		3903.9		-725	+2510	1,940,336 504,532
697	2900		86° 15' 00"	" "	5.8	-		-5.8		3902.0	TP	-640	+2828	1,940,415 504,844
697	2900				12.5	89° 52'	+6.7	-5.8			TP	-6	-6	
	2523		281° 32' 41" -180°	+16.5°	5.3	-		+5.3	3907.3		BS	-1186	+2227	
	2523				11.2	89° 52'	-5.9	+5.3			BS	-6	-6	
698	2209		283° 11'	+16.5°	5.4	-		-5.4		3901.9		+1094	-1919	1,940,317 505,146 Cross Country
699	1908		286° 58'	" "	6.0	-		-6.0		3901.3		+1052	-1592	1,940,275 505,471 "
700	1619		292° 10'	" "	6.2	-		-6.2		3901.1		+1012	-1264	1,940,235 505,801
701	1320		296° 18'	" "	6.0	-		-6.0		3901.3		+897	-969	1,940,120 506,096 BACK ON ROAD
702	990		" "	" "	6.7	-		-6.7		3900.6		+673	-726	1,939,896 506,339
703	660		" "	" "	6.8	-		-6.8		3900.5		+448	-484	1,939,671 506,581
704	330		" "	" "	6.9	-		-6.9		3900.4		+224	-242	1,939,447 506,823
705	0				5.2	-		-5.2		3902.1	̄	0	0	1,939,223 507,065
706	336		116° 08'	+16.5°	5.1	-		-5.1		3902.2		-224	+243	1,938,999 507,305
707	660		" "	" "	4.6	-		-4.6		3902.7		-447	+486	1,938,776 507,551
708	990		" "	" "	4.0	-		-4.0		3903.3		-671	+728	1,938,552 507,793
709	1320		" "	" "	6.7	-		-6.7		3900.6		-894	+971	1,938,329 508,036
710	1650		" "	" "	6.9	-		-6.9		3900.4		-1118	+1214	1,938,105 508,279

SURVEY NOTES-HIGH RESOLUTION DATA  
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4-7-83		B. Cotcamp		W Greenfield		6834		KW.G.		1		47			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
NEVADA		Touhon - 15'		NEVADA		Pershing								L. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									3907.3						
711	1980		116° 08'	+16.5°	7.6	-		-7.6		3899.7		-1341	+1457	1,937,882	508,522
712	2310		" "	" "	9.1	-		-9.1		3898.2		-1565	+1699	1,937,658	508,764
sec. corner	2593		115° 55' 20"	" "	9.8	-		-9.8		3897.5	sec. corner	-1749	+1914	1,937,474	508,979
713	2627		115° 02' 10"	" "	8.7	-		-8.7		3898.7	TP	-1742	+1966	1,937,475	509,025
713	2627				13.1	89° 54'	+4.6	-8.5	-8.6?		TP	-6	-6		
	2969		253° 45' 55" - 180	+16.5°	9.9	-		+9.9	3908.6		OS	-14	+2969		
	2969				+15.0	89° 54'	-5.2	+9.8			BS		-6		
714	2640		253° 46'	+16.5°	9.7	-		-9.7		3898.9		+12	-2640	1,937,467	509,348
715	2310		" "	" "	9.6	-		-9.6		3899.0		+11	-2310	1,937,466	509,678
716	1980		" "	" "	9.2	-		-9.2		3899.4		+9	-1980	1,937,464	510,008
717	1650		" "	" "	7.1	-		-7.1		3901.5		+8	-1650	1,937,463	510,338
718	1320		253° 46'	+16.5°	6.8	-		-6.8		3901.8		+6	-1320	1,937,461	510,668
719	990		" "	" "	6.6	-		-6.6		3902.0		+5	-990	1,937,460	510,998
720	660		" "	" "	6.7	-		-6.7		3901.9		+3	-660	1,937,458	511,328
721	330		" "	" "	5.5	-		-5.5		3903.1		+2	-330	1,937,457	511,658
722	0				5.2	-		-5.2		3903.4	A	0	0	1,937,455	511,988
723	330		73° 58'	+16.5°	5.7	89° 50'	+1.0	-4.7		3903.9		-3	+330	1,937,452	512,318
724	660		" "	" "	7.0	89° 50'	+1.9	-5.1		3903.5		-5	+660	1,937,450	512,648
725	990		" "	" "	7.6	89° 50'	+2.9	-4.7		3903.9		-8	+990	1,937,447	512,978
726	1320		" "	" "	8.9	89° 50'	+3.8	-5.1		3903.5		-11	+1320	1,937,444	513,308

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4.7.83		B. Cotcamp		W. Greenfield		6834		KWG		1		48			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
NEVADA		Toulon-15'		NEVADA		Pershing								L. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									3908.6						
727	1650		73° 58'	+16.5°	9.2	89° 50'	+4.8	+4.4		3904.2		-13	+1650	1,937,442	513,638
728	1980		" "	" "	10.7	89° 50'	+5.8	-4.9		3903.7		-16	+1980	1,937,439	513,968
IF	2235		73° 36' 58"	" "	9.8	89° 50'	+6.5	-3.3			TP	-5	+2235	1,937,444	514,217
IF	2235				13.6	89° 44'	+10.4	-3.2		3905.4	TP	-6	-6		FT-ROAD south
	2735		343° 10' 27"	+16.5°	10.7	89° 50'	-8.0	+2.7	3908.0		BS	-2735	+16		
	2735				7.3	89° 54'	-4.8	+2.5	3908.0		BS	-3	-6		
729	2640		343° 31'	+16.5°	10.2	89° 50'	+7.7	-2.5		3905.5		+2640	+1	1,937,346	514,228
730	2310		" "	" "	9.5	89° 50'	+6.7	-2.8		3905.2		+2310	+1	1,937,016	514,228
731	1980		" "	" "	8.7	89° 50'	+5.8	-3.0		3905.0		+1980	+1	1,936,686	514,228
732	1650		" "	" "	8.2	89° 50'	+4.8	-3.4		3904.6		+1650	+0	1,936,356	514,227
733	1320		343° 31'	+16.5°	7.8	89° 50'	+3.8	-4.0		3904.0		+1320	+0	1,936,026	514,227
734	996		" "	" "	7.2	89° 50'	+2.9	-4.3		3903.7		+990	+0	1,935,696	514,227
735	660		" "	" "	6.8	89° 50'	+1.9	-4.9		3903.1		+660	+0	1,935,366	514,227
736	330		" "	" "	6.4	89° 50'	+1.0	-5.4		3902.6		+330	+0	1,935,036	514,227
737	0		" "		5.2	-		-5.2		3902.8	X	0	0	1,934,706	514,227
738	330		163° 34'	+16.5°	5.2	-		-5.2		3902.8		-330	+0	1,934,376	514,227
739	660		" "	" "	5.7	-		-5.7		3902.3		-660	-1	1,934,046	514,226
740	990		" "	" "	6.4	-		-6.4		3901.6		-990	-1	1,933,716	514,226
741	1320		" "	" "	6.7	-		-6.7		3901.3		-1320	-2	1,933,386	514,225
742	1650		" "	" "	6.7	-		-6.7		3901.3		-1650	-2	1,933,056	514,225

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4.7.83		B. Cotcamp		W. Greenfield		6834		KWG		1		49			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
NEVADA		TOLSON-15'		NEVADA		Pershing								L. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									3908.0						
743	1980		163° 34'	+16.5°	7.1	-		-7.1		3900.9		-1980	-2	1,932,726	514,225
744	2310		" "	" "	7.3	-		-7.3		3900.7		-2310	-3	1,932,396	514,224
744	2598		163° 28' 50"	" "	7.0	-		-7.0		3901.0	TP	-2598.0	+1	1,932,108	514,228
745	2611		162° 52' 51"	" "	8.2	-		-8.2		3899.8	TP	-2611	+28	1,932,092	514,249
745	2611				11.3	89° 56'	+3.0	-8.3			TP		-3		
	2641		253° 54' 30"	+16.5°	7.6	-		+7.6	3907.2		BS	-19	+2641		
	2641				11.7	89° 54'	-4.6	+7.1	3907.2		BS		-3		
746	2310		254° 02'	+16.5°	6.0	-		-6.0		3901.2		+22	-2310	1,932,092	514,578
747	1980		" "	" "	9.3	89° 54'	+3.5	-5.8		3901.4		+18	-1980	1,932,088	514,908
748	1650		" "	" "	9.0	89° 54'	+2.9	-6.1		3901.1		+15	-1650	1,932,085	515,238
749	1320		" "	" "	8.3	89° 54'	+2.3	-6.0		3901.2		+12	-1320	1,932,082	515,568
750	990		254° 02'	+16.5°	7.8	89° 54'	+1.7	-6.1		3901.1		+9	-990	1,932,079	515,898
751	660		" "	" "	7.0	89° 54'	+1.2	-5.8		3901.4		+6	-660	1,932,076	516,228
752	330		" "	" "	6.0	89° 54'	1.0	-5.4		3901.8		+3	-330	1,932,073	516,558
753	0				5.2	-		-5.2		3902.0	TP	0	0	1,932,070	516,888
754	330		73° 47'	+16.5°	5.3	-		-5.3		3901.9		-2	+330	1,932,068	517,218
755	660		" "	" "	5.1	-		-5.1		3902.1		-3	+660	1,932,067	517,548
756	990		" "	" "	7.8	89° 50'	+2.9	-4.9		3902.3		-5	+990	1,932,065	517,878
757	1320		" "	" "	8.8	89° 50'	+3.8	-5.0		3902.2		-7	+1320	1,932,063	518,208
758	1650		" "	" "	9.1	89° 50'	+4.8	-4.3		3902.9		-8	+1650	1,936,062	518,538

4-1932,155x-514,225  
4-way inter.

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
4-17-83		B. Catcamp		W Greenfield		6034		KWG		1	50						
AREA		TOPO MAP	STATE	COUNTY	TWP	RANGE	PPM	PARTY MANAGER									
NEVADA		Toulon - 15'	NEVADA	Pershing				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		
									3907.2								
759	1980		73° 41'	+16.5°	10.3	89° 50'	+5.8	-4.5		3902.7		-10	+1980	1932060	518,868		
760	2310		" "	" "	11.4	89° 50'	+6.7	-4.7		3902.5		-11	+2310	1932059	519,198		
4#	2591		73° 33' 56"	" "	11.8	89° 50'	+7.5	-4.3		3902.9	4#	-3	+2591	1932067	519,479	4# 4 way	
Bm	2540		74° 06' 08"	" "	11.6	89° 50'	+7.4	-4.2			Bm	-27	+2540	1932040	519,425	y-1932.110 x-519.515	
Bm	2540				11.5	270° 10'	+7.4	-4.1		3903.1	Bm	-3	-3			198	g-1932.040 x-519.425 Surreal of Reclam. Bm 2.390 HORIZ 2-72' CORR. X-76'
	3400		253° 31' 26" - 18	+16.5°	6.1	-		+6.1	3909.2		BS	-1	+3400				
	3400			+12.0		89° 54'	-5.9	+6.1			BS	-2	+2				
761	3300		253° 55'	+16.5°	6.4	-		-6.4		3902.8		+24	-3300	1932061	519,527		
762	2970		" "	" "	6.8	-		-6.8		3902.4		+22	-2970	1932059	519,857		
763	2640		" "	" "	6.4	-		-6.4		3902.8		+19	-2640	1932056	520,187		
764	2310		" "	" "	6.4	-		-6.4		3902.8		+17	-2310	1932054	520,517		
765	1980		253° 55'	+16.5°	6.2	-		-6.2		3903.0		+14	-1980	1932051	520,847		
766	1650		" "	" "	5.9	-		-5.9		3903.3		+12	-1650	1932046	521,177		
767	1320		" "	" "	5.5	-		-5.5		3903.7		+10	-1320	1932047	521,507		
768	990		" "	" "	5.8	-		-5.8		3903.4		+7	-990	1932044	521,837		
769	660		" "	" "	5.1	-		-5.1		3904.1		+5	-660	1932042	522,167		
770	330		" "	" "	5.3	-		-5.3		3903.9		+2	-330	1932039	522,497		
771	0				5.2	-		-5.2		3904.0	T	0	0	1932037	522,827		
772	330		73° 59'	+16.5°	5.0	-		-5.0		3904.2		-3	+330	1932034	523,157	Toulon - 15'	
773	660		" "	" "	6.6	74	+3.3	-3.3		3905.9		-6	+660	1932031	523,487	LOVELock - 15' ↓	

SURVEY NOTES-HIGH RESOLUTION DATA  
GEO-445

Geosource Inc.

DATE 4-8-83	INSTRUMENT MAN B. Cotcamp	ROD MAN W. Greenfield	PARTY NUMBER 6834	NOTES CHECKED BY KWG	LINE NO. 1	PAGE 51
AREA NEVADA	TOPO MAP TOWON - 15'	STATE NEVADA	COUNTY Pershing	TWP	RANGE	PPM
				PARTY MANAGER L. Davis		

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									3909.2						
774	990		73° 59'	+16.5°	8.1	TH	+5.0	-3.1		3906.1		-8	+990	1,932,024	523,817
775	1320		" "	" "	9.4	TH	+6.6	-2.8		3906.4		-11	+1320	1,932,026	524,147
776	1650		" "	" "	10.3	TH	+8.3	-2.0		3907.2		-14	+1650	1,932,023	524,477
777	1980		" "	" "	3.2	-	-	-3.2		3906.0		-17	+1980	1,932,020	524,807
Bm	1975		74° 06' 11"	+16.5°	3.4	-	-	-3.4		3905.8	Bm	-21	+1975	1,932,016	524,802
778	2310		73° 59'	" "	7.2	89° 54'	+4.0	-3.2		3906.0		-19	+2310	1,932,018	525,137
779	2640		" "	" "	7.7	89° 54'	+4.6	-3.1		3906.1		-22	+2640	1,932,015	525,467
780	2970		" "	" "	8.0	89° 54'	+5.2	-2.8		3906.4		-25	+2970	1,932,012	525,797
781	3300		73° 58' 40"	" "	8.9	89° 54'	+5.8	-3.1		3906.0	TP	-28	+3300	1,932,007	526,129
781	3300				7.1	89° 56'	+3.8	-3.3			TP	-2	+2		
	3299		254° 02' 54" -180	+16.5°	8.9	-	-	+8.9	3914.9		BS	-32	+3299		
	3299				+5.1	90° 04'	+3.8	+8.9			BS	-2	+2		
782	2970		254° 03'	+16.5°	8.2	-	-	-8.2		3906.7		+29	-2970	1,932,002	526,460
783	2640		" "	" "	7.9	-	-	-7.9		3907.0		+25	-2640	1,931,998	526,790
784	2310		" "	" "	8.1	-	-	-8.1		3906.8		+22	-2310	1,931,995	527,120
785	1980		" "	" "	7.2	-	-	-7.2		3907.7		+19	-1980	1,931,992	527,450
786	1650		254° 03'	+16.5°	6.3	-	-	-6.3		3908.6		+15	-1650	1,931,988	527,780
787	1320		" "	" "	6.3	-	-	-6.3		3908.6		+13	-1320	1,931,986	528,110
788	990		" "	" "	6.0	-	-	-6.0		3908.9		+10	-990	1,931,983	528,440
789	660		" "	" "	5.2	-	-	-5.2		3909.7		+6	-660	1,931,979	528,770

U.S.C. & G.S. Bm EL. 3907.0  
5-317  
1951

SURVEY NOTES-HIGH RESOLUTION DATA  
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
4-8-83		B. Cotcamp		W. Greenfield		6834		KWG		1	52						
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER						
NEVADA		LOVELOCK - 15'		NEVADA		PERSEHING					L. Davis						
STATION NO.	SLOPE DISTANCE	PLOTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS	
												LAT.	DEP.	Y	X		
									3914.9								
790	330		254° 03'	+16.5°	3.8	-		-3.8		3911.1		+3	-330	1931976	529,100		
791	0				5.2	-		-5.2		3909.7	TP	0	0	1931973	529,430		
792	330		73° 59'	+16.5°	5.1	-		-5.1		3909.8		-3	+330	1931970	529,760		
Bm	694		64° 02' 56"	" "	9.9	89° 40'	+4.0	-5.9		3909.0	Bm	+114	+685	1932,087	530,115	45.2 + 65. Bm over 3911.0	
793	660		73° 59'	" "	4.9	-		-4.9		3910.0		-6	+660	1931967	530,090	STAT. 40-11	
794	990		" "	" "	4.6	-		-4.6		3910.3		-8	+990	1931965	530,420		
795	1320		" "	+16.5°	4.2	-		-4.2		3910.7		-11	+1320	1931962	530,750		
796	1650		" "	" "	4.4	-		-4.4		3910.5		-14	+1650	1931959	531,080		
797	1980		" "	" "	7.0	89° 54'	+3.5	-3.5		3911.4		-17	+1980	1931956	531,410		
798	2310		" "	" "	7.1	89° 54'	+4.0	-3.1		3911.8		-19	+2310	1931954	531,740		
799	2640		73° 59'	" "	7.2	89° 54'	+4.6	+2.6		3912.3		-22	+2640	1931951	532,070		
800	2969		74° 11'	" "	5.2	89° 54'	+5.2	+0.0		3914.9		-35	+2969	1931938	532,399	around 90° corner	
801	3148		77° 24' 20"	+16.5°	6.3	89° 50'	+9.2	+2.9		3917.8	TP	-214	+3141	1931757	532,573	1st STA. THIS SIDE OF RIVER	
801	3148				11.8	89° 44'	+14.7	+2.9			TP		+2				
	2964		341° 44' 46" - 180°	+16.8°	3.8	-		+3.8	3921.4		BS	-2963	+75				
	2964				10.3	89° 52'	-6.9	+3.4	3936.3		BS		+12				
802	2637		341° 50'	+16.8°	7.0	-		-7.0		3914.4		+2636	-63	1931429	532,587	WASHED OUT ROAD	
803	2309		341° 04'	" "	7.3	-		-7.3		3914.1		+2307	-86	1931100	532,564	" " "	
804	1980		" "	" "	6.2	-		-6.2		3915.2		+1979	-74	1930722	532,576	" " "	
805	1650		" "	" "	3.2	-		-3.2		3918.2	ON BRIDGE	+1649	-61	1930442	532,589	" " "	



SURVEY NOTES-HIGH RESOLUTION DATA  
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Geosource Inc.

DATE	4.8.83	INSTRUMENT MAN	B. Cotcamp	ROD MAN	W. Greenfield	PARTY NUMBER	6834	NOTES CHECKED BY	KWG	LINE NO.	1	PAGE	54	
AREA	NEVADA	TOPO MAP	Lovelock - 15'	STATE	NEVADA	COUNTY	Pershing	TWP		RANGE		PPM	PARTY MANAGER	L. Davis

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS
												LAT.	DEP.	Y	X	
									3957.2							
821	2307		341° 56'	+16.8°	11.8	90° 30'	20.1	31.9		3925.3		+2306	-51	1925763	532772	
822	1977		342° 11'	" "	12.4	90° 30'	17.3	29.7		3927.5		+1977	-35	1924834	532788	
823	1647		342° 32'	" "	12.1	90° 30'	14.4	26.5		3930.7		+1647	-19	1924504	532804	
824	1318		343° 07'	" "	11.8	90° 30'	11.5	23.3		3933.9		+1318	-2	1924175	532821	
825	1155		343° 35' 21"	+16.8°	12.1	90° 30'	10.1	-22.2		3935.0	TP	+1155	+8	1924012	532831	g - INTER. WEST BL. 3935.0
825	989		342° 18'	" "	12.4	90° 30'	8.6	21.0		3936.2		+989	-16	1923846	532807	
826	660		341° 05'	" "	11.5	90° 30'	5.8	17.3		3939.9		+660	-24	1923517	532799	
827	330		339° 23'	" "	9.1	90° 30'	2.9	12.0		3945.2		+329	-22	1923186	532801	
828	0				5.2	-		-5.2		3952.0	TP	0	0	1922857	532823	
829	330		159° 50'	+16.8°	9.6	87° 50'	12.5	2.9		3960.1		-329	+19	1922528	532842	
830	660		158° 40'	" "	10.3	88° 10'	21.1	10.8		3968.0		-658	+52	1922199	532875	
831	987		155° 46'	" "	6.0	88° 10'	31.6	25.6		3982.8		-979	+128	1921878	532951	
832	1314		157° 33'	" "	7.7	87° 40'	53.5	45.9		4003.1		-1308	+129	1921549	533952	
833	1638		156° 28'	" "	10.3	87° 20'	76.2	65.8		4023.0		-1627	+192	1921230	533015	
834	1959		154° 22'	+16.8°	8.8	87° 10'	96.7	87.9		4045.1		-1936	+301	1920921	533124	
835	2277		153° 00'	" "	12.3	86° 40'	132.2	119.9		4077.1		-2241	+403	1920616	533226	
836	2591		151° 02' 56"	" "	12.3	86° 40'	150.7	138.4		4095.6	TP	-2529	+544	1920327	533369	
836	2591										TP	-1	+2			

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4.12.83		B. Cotcamp		W. Greenfield		6834		KWG		1		55			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
NEVADA		LoveLock - 15'		NEVADA		Pershing								L. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									4095.6						
	1635		320° 40' 06" - 180	+16.8	2.3	92° -	+57.1	+59.4	4155.0		BS	-1509	+626		
	1635			+	11.7	91° 40'	+47.6	+59.3		BS		-1	+2		
837	1308		322° 06'	+16.8	7.4	92° 10'	+49.4	-56.8		4098.2		+1220	-471	1,920,037	533,526
838	984		324° 36'	" "	10.1	92° 10'	-37.2	-47.3		4107.7		+933	-314	1,919,750	533,683
839	658		320° 44'	" "	10.9	92° 10'	-24.9	-35.8		4119.2		+608	-251	1,919,425	533,746
840	330		322° 38'	" "	12.0	92° 10'	-12.5	-24.5		4130.5		+309	-116	1,919,126	533,881
841	0				5.2	-		-5.2		4149.8	TP	0	0	1,918,817	533,997
842	318		144° 12'	+16.8	7.9	87° -	+16.6	+8.7		4163.7		-301	+104	1,918,516	534,101
843	633		141° 05'	" "	11.2	87° -	+33.1	+21.9		4176.9		-586	+238	1,918,231	534,235
844	957		136° 19'	" "	9.0	87° 20'	+44.5	+35.5		4190.5		-854	+433	1,917,963	534,430
845	1276		140° 03'	" "	6.3	87° 20'	+59.3	+53.0		4208.0		-1173	+502	1,917,644	534,499
846	1581		135° 33' 30"	" "	10.8	87° 10'	+78.2	+67.4		4222.4	TP	-1399	+733	1,917,417	534,732
846	1581				10.9	272° 50'	+78.2	+67.3			TP	-1	+2		
	970		294° 25' 31" - 180	+16.8	8.5	92° 40'	+45.1	+53.6	x4276.1		BS	-639	+729		
	970			+	11.4	92° 30'	+42.3	+53.7		BS		-1	+2		
847	652		301° 00'	" "	8.1	92° 40'	-30.3	-38.4		4237.7		+483	-438	1,917,260	535,025
848	327		295° 53'	" "	6.6	92° 40'	-15.2	-21.8		4254.3		+222	-240	1,916,999	535,223
849	0				5.2	-		-5.2		4270.9	TP	0	0	1,916,777	535,463
850	330		93° 07'	" "	4.9	87° 10'	+16.3	+11.4		4287.5		-112	+310	1,916,665	535,773
851	658		96° 10'	" "	6.2	87° -	+34.4	+28.2		4304.3		-257	+606	1,916,520	536,069

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4.12.83		B. Cottramp		W. Greenfield		6834		KwG		20		56			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
NEVADA		LOVELOCK - 15		NEVADA		Pershing								L. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									4276.1						
852	985		94° 09'	+16.8°	7.1	87° -	+51.5	+44.4		4320.5		-352	+920	1,916,425	535,753
853	1231		97° 20' 14"	" "	9.9	86° 20'	+78.7	+68.8		4344.9	TP	-503	+1121	1,916,273	536,586
853	1231				13.6	86° 10'	+82.3	+68.7			TP				
	947		266° 32' 19"	+16.8°	9.5	93° -	+49.6	+59.1	4404.0		BS	-218	+920		
	947				+6.7	93° 10'	+52.3	+59.0			BS				
854	645		265° 21'	+16.8°	10.5	93° 30'	-39.3	-49.8		4354.2		+136	-631	1,916,190	536,877
855	327		257° 00'	" "	11.3	93° 30'	-19.9	-31.2		4372.8		+22	-327	1,916,076	537,181
856	36		342° 33'	" "	8.8	93° 30'	-2.2	-11.0		4393.0		+36	-0	1,916,090	537,508
X	0				5.2	-		-5.2		4398.8	X	0	0	1,916,054	537,508
857	305		89° 35'	+16.8°	8.2	86° 30'	+18.6	+10.4		4414.4		-60	+299	1,915,994	537,807
858	620		73° 35'	" "	7.7	86° 20'	+39.6	+31.9		4435.9		-4	+620	1,916,080	538,128
TP	789		71° 54' 48"	" "	4.7	86° -	+55.0	+50.3			TP	+18	+787	1,916,071	538,297
TP	789				2.4	86° 10'	+52.8	+50.4		4454.4	TP				
	391		324° 15' 46" - 180°	+16.8°	10.1	93° -	+20.5	+30.6	4485.0		BS	-369	+127		
	391				+9.0	93° 10'	+21.6	+30.6			BS				
859	173		333° 36'	+16.8°	9.1	94° -	-12.0	-21.1		4463.9		+171	-29	1,915,872	538,397
X	0				5.2	-		-5.2		4479.8	X	0	0	1,915,701	538,426
860	152		149° 58'	" "	9.7	94° -	-10.6	-20.3		4464.7		-148	+35	1,915,553	538,461
861	479		142° 06'	" "	8.0	95° -	-41.6	-49.6		4435.4		-447	+172	1,915,254	538,598

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4.12.83		B. Cotcamp		W. Greenfield		6834		KLG		1		57			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
NEVADA		LOVELOCK - 15'		NEVADA		PERSHING								L. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									4485.0						
TP 862	775		130° 47' 54"	+16.8°	12.6	93° 50'	-51.8	-63.8		4421.2	TP	-653	+414	1,915,047	538,842
TP 862	775				14.3	93° 40'	-49.6	-63.9			TP		+2		
	438		285° 50' 30"	+16.8°	6.9	88° 20'	-12.7	-5.8	4415.4		BS	-236	+369		
	438				5.7	88° 30'	-11.5	-5.8			BS	-1	+2		
863	135		316° 51'	+16.8°	10.3	89° 40'	+0.8	-9.5		4405.9		+121	-60	1,914,921	539,153
X	0				5.2	-		-5.2		4410.2	X	0	0	1,914,810	539,213
864	207		104° 55'	+16.8°	6.2	93° 20'	-12.0	-18.2		4397.2		-109	+176	1,914,701	539,389
865	536		105° 30'	" "	6.2	93° -	-28.0	-34.2		4381.2		-286	+453	1,914,524	539,666
TP	609		102° 13' 13"	" "	13.2	92° 10'	-23.0	-36.2		4379.2	TP	-295	+532	1,914,514	539,747
TP	609				11.5	92° 20'	-24.8	-36.3			TP		+2		
	439		248° 01' 08"	+16.8°	7.8	88° -	-15.3	-7.5	4371.7		BS	+39	+437		
	439				6.5	88° 10'	-14.6	-7.5			BS	-1	+2		
866	191		250° 47'	+16.8°	7.1	86° 40'	+11.1	+4.0		4375.7		-8	-191	1,914,544	539,995
X	0				5.2	-		-5.2		4366.5	X	0	0	1,914,552	540,186
867	138		85° 51'	+16.8°	4.1	96° 40'	-15.9	-20.0		4351.7		-30	+135	1,914,522	540,321
868	460		94° 45'	" "	6.5	96° 20'	-50.4	-56.9		4314.8		-169	+428	1,914,383	540,614
869	746		109° 14' 29"	" "	12.0	96° 10'	-80.1	-92.1		4279.6	TP	-436	+600	1,914,115	540,788
869	746				14.1	96° -	-78.0	-92.1			TP		+2		
	1581		315° 17' 27" - 180°	+16.8°	6.3	85° 40'	-19.5	-113.2			BS	-1393	+738		
	1581				10.9	85° 30'	-124.0	-113.1	4166.5		BS	-1	+1		

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
4.12.83		B. CotCamp		W. Greenfield		6834		KwG		1	58					
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER					
NEVADA		LOVELOCK - 15'		NEVADA		Pershing					L. Davis					
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
									4166.5							
870	1261		318° 28'	+16.8°	3.3	86° -	+87.8	+84.5		4251.0		+1145	-528	1913866	540,999	CROSS COUNTRY
871	951		324° 08'	" "	3.8	87° -	+49.7	+45.9		4212.4		+899	-311	1913620	541,216	" "
872	645		331° 38'	" "	5.9	87° -	+33.7	+27.8		4194.3		+632	-129	1913353	541,398	BACK ON ROAD.
873	325		321° 37'	" "	9.2	86° -	+22.6	+13.4		4179.9		+302	-120	1913623	541,407	
874	0				5.2	-		-5.2		4161.3	X	0	0	1912721	541,527	
875	330		132° 35'	+16.8°	4.7	92° -	-11.5	-16.2		4150.3		-284	+168	1912437	541,695	
876	659		128° 46'	" "	6.8	91° 20'	-15.3	-22.1		4144.4		-544	+373	1912177	541,900	
877	983		124° 59'	" "	8.5	91° 20'	-22.9	-31.4		4135.1		-772	+608	1911949	542,135	
878	1310		122° 45'	" "	6.7	91° 20'	-30.5	-37.2		4129.3		-997	+850	1911724	542,377	
879	1632		122° 49' 53"	" "	11.0	91° 20'	-38.0	-49.0		4117.6	TP	-1243	+1057	1911477	542,585	↑ LOVELOCK - 15 (PERSHING CO.)
879	1632				13.7	91° 14'	-35.1	-48.8	489.8		TP	-	+			
	652		339° 10' 17" - 180°	+16.8°	8.5	89° -	-11.4	-2.9	4114.7		BS	-650	+46			LOVELOCK N.W. - 7 1/2'
	652				6.6	89° 16'	-9.5	-2.9			BS		+			↓ (CHURCHILL CO.)
880	323		341° 45'	+16.8°	6.0	89° 10'	+4.7	-1.3		4113.4		+323	-8	1911149	542,624	
881	0				5.2	-		-5.2		4109.5	X	0	0	1910826	542,632	
882	325		113° 42' 57"	+16.8°	7.8	94° 10'	-23.6	-31.4		4083.3	TP	-211	+246	1910614	542,879	
882	325				8.7	94° -	-22.7	-31.4			TP	-	+			
	2139		288° 56' 01"	" "	12.2	87° 10'	-105.7	-93.5	3989.8		BS	-1248	+1734			
	2139				8.4	87° 16'	-102.0	-93.6			BS	-	+			

SURVEY NOTES-HIGH RESOLUTION DATA  
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4-12-83		B. Cotcamp		W. Greenfield		6834		RWG		1		59			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
NEVADA		LOWE Rock-N.W-7 1/2		NEVADA		CHURCHILL								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
									3989.8						
883	1846		284° 41'	+16.8°	7.1	87° 40'	+75.1	+68.0		4057.8		+964	-1574	1,910,328	543,040
884	1532		282° 04'	" "	8.9	87° 40'	+62.3	+53.4		4043.2		+740	-1342	1,910,104	543,272
885	1206		281° 33'	" "	6.3	87° 40'	+49.1	+42.8		4032.6		+573	-1061	1,909,937	543,553
886	899		287° 25'	" "	10.9	87° 40'	+36.6	+25.7		4015.5		+506	-743	1,909,870	543,871
887	644		302° 48'	" "	9.9	87° 40'	+26.2	+16.3		4006.1		+490	-417	1,909,854	544,197
888	328		311° 43'	" "	9.7	87° 40'	+13.3	+3.6		3993.4		+280	-171	1,909,644	544,443
889	0				5.2	-	-	-5.2		3984.6	X	0	0	1,909,364	544,614
890	330		124° 34'	+16.8°	7.0	91° -	-5.8	-12.8		3977.0		-258	+206	1,909,106	544,820
891	659		125° 56'	" "	8.1	91° -	-11.5	-19.6		3970.2		-524	+399	1,908,840	545,013
892	989		" "	" "	9.1	91° -	-17.3	-26.4		3963.4		-787	+599	1,908,577	545,213
893	1319		" "	" "	9.1	91° -	-23.0	-32.1		3957.7		-1050	+799	1,908,314	545,413
894	1649		" "	+16.8°	7.7	91° -	-28.8	-36.5		3953.3		-1312	+999	1,908,052	545,613
895	1979		125° 56'	" "	5.8	91° -	-34.5	-40.3		3949.5		-1575	+1198	1,907,789	545,812
896	2309		" "	" "	10.4	90° 50'	-33.6	-44.0		3945.8		-1838	+1398	1,907,526	546,012
897	2583		121° 51' 53"	" "	9.1	90° 50'	-37.6	-46.7		3943.1	TP	-1939	+1706	1,907,425	546,320
898	2576		125° 31' 02"	" "	9.0	90° 50'	-37.5	-46.5		3943.3	TP	-2038	+1575	1,907,326	546,189
899	2637		125° 26' 14"	" "	8.8	90° 50'	-38.4	-47.2		3942.6	TP	-2084	+1615	1,907,278	546,229
899	2637				13.4	90° 44'	-33.8	-47.2			TP	-2	+2		

-1,907,425 x - 546,320  
 y-inter. Elev 3944  
 Mod. y = 3  
 corr. x = 445  
 T-INT.  
 y - 1,907,350 x - 546,235

SURVEY NOTES-HIGH RESOLUTION DATA  
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4-13-83		B. Cotcamp		D. Winkle		6834		DW		1		60			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
NEVADA		LONG ROCK N.W. - 7 1/2'		NEVADA		CHURCHILL								L. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFER-ENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
										3942.6					
	2889		299° 07' 38"	+16.8°	12.3	89° 40'	-16.8	-4.5	3938.2		BS	-2076	+2009		
	2889			+12.5	270° 20'	-16.8	-4.3	3944.8			BS	-2	+2		
898	2562		298° 28'	+16.8°	6.0	89° 50'	+7.5	+1.5		3939.7		+1820	-1803	1907,020 546,437	
899	2249		296° 02'	" "	6.9	89° 50'	+6.5	-0.4		3937.8		+1529	-1649	1906,729 546,591	
900	1943		292° 36'	" "	6.9	89° 50'	+5.7	-1.2		3937.0		+1233	-1501	1906,433 546,739	
901	1634		289° 01'	" "	7.2	89° 50'	+4.8	-2.4		3935.8		+956	-1325	1906,156 546,915	
902	1313		288° 35'	" "	8.0	89° 50'	+3.8	-4.2		3934.0		+760	-1070	1905,960 547,170	
903	985		288° 50'	" "	6.6	89° 50'	+2.9	-3.7		3934.5		+574	-801	1905,774 547,439	
904	657		287° 31'	" "	6.3	89° 40'	+3.8	-2.5		3935.7		+370	-543	1905,570 547,697	
905	330		292° 09'	" "	7.7	89° 40'	+1.9	-5.8		3932.4		+207	-257	1905,407 547,983	
906	0				5.2	—	—	-5.2		3933.0	π	0	0	1905,200 548,240	
907	328		120° 48'	+16.8°	5.7	90° 30'	-2.9	+8.6		3929.6		-242	+221	1904,958 548,461	
908	649		125° 19'	" "	4.0	90° 30'	-5.7	-9.7		3928.5		-512	+399	1904,688 548,639	
909	976		122° 17'	" "	10.8	90° 40'	-11.4	-22.2		3916.0		-738	+639	1904,462 548,879	
910	1302		119° 34'	" "	10.7	90° 40'	-15.1	-25.8		3912.4		-942	+898	1904,258 549,138	
911	1630		118° 12'	" "	7.1	90° 40'	-19.0	-26.1		3912.1		-1153	+1153	1904,047 549,393	
912	1958		117° 41'	" "	6.8	90° 40'	-22.8	-29.6		3908.6		-1372	+1397	1903,828 549,637	
913	2288		117° 34'	" "	5.1	90° 40'	-26.6	-31.7		3906.5		-1600	+1636	1903,600 549,876	
914	2618		117° 30'	" "	10.0	90° 30'	-22.9	-32.9		3905.3		-1828	+1874	1903,372 550,114	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4.13.83		B. Camp		D. Wrinkle		6834		KWG		1		61			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
NEVADA		LONE ROCK 7 1/2'		NEVADA		CHURCHILL								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
									3938.2						
915	2948		117° 10'	+16.8°	8.8	90° 30'	-25.8	-34.6		3903.6		-2047	+2122	1903.153	550.362
916	3277		116° 56' 30"	" "	6.7	90° 30'	-28.6	-35.3		3902.9	TP	-2266	+2367	1902.932	550.609
916	3277				12.4	90° 24'	-22.9	-35.3			TP	-2	+2		
	3286		294° 45' 56" -180	+16.8°	7.6	89° 50'	-9.6	-2.0			BS	-2180	+2459		
	3286				13.4	89° 44'	-15.3	-1.9	3901.0		BS	-2	+2		
917	2956		294° 52'	+16.8°	10.1	89° 46'	+12.0	+1.9		3902.9		+1965	-2208	1902.715	550.862
918	2628		295° 24'	" "	9.9	89° 46'	+10.7	+0.8		3901.8		+1765	-1947	1902.515	551.123
919	2298		295° 15'	" "	6.6	89° 50'	+6.7	+0.1		3901.1		+1539	-1706	1902.289	551.364
920	1968		294° 54'	" "	6.1	89° 50'	+5.7	-0.4		3900.6		+1309	-1469	1902.059	551.601
921	1639		294° 58'	" "	5.1	89° 50'	+4.8	-0.3		3900.7		+1092	-1222	1901.842	551.848
Power Line	1397		295° 26' 47"	+16.8°	4.6	89° 50'	+4.1	-0.5		3900.5	Power Line	+939	-1034	1901.689	552.036
922	1310		295° 12'	" "	6.9	89° 50'	+3.8	-3.1		3897.9		+877	-974	1901.627	552.096
923	981		296° 26'	" "	7.2	89° 50'	+2.9	-4.3		3896.7		+672	-715	1901.422	552.355
924	653		298° 04'	" "	6.7	89° 50'	+1.9	-4.8		3896.2		+461	-463	1901.211	552.607
925	328		296° 16'	" "	6.2	89° 50'	+1.0	-5.2		3895.8		+224	-240	1900.974	552.830
926	0				5.2	-		-5.2		3895.8	π	0	0	1900.750	553070
927	327		110° 46'	+16.8°	6.1	89° 50'	+1.0	-5.1		3895.9		-199	+259	1900.551	553.329
928	656		112° 44'	" "	7.9	89° 50'	+1.9	-6.0		3895.0		-418	+506	1900.332	553.576
929	985		114° 49'	" "	7.0	89° 50'	+2.9	-4.1		3896.9		-654	+736	1900.096	553.806
1070	1070		114° 21' 42"	" "	7.0	89° 50'	+3.1	-3.9		3897.1		-706	+804	1900.044	553.874

4-1901.700 X-552.090  
Power Line + ROAD

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 4-13-83	INSTRUMENT MAN B. Cotcamp	ROD MAN D. Winkle	PARTY NUMBER 6834	NOTES CHECKED BY LWB	LINE NO. 1	PAGE 62
AREA NEVADA	TOPO MAP LONE ROCK N.W - 7 1/2'	STATE NEVADA	COUNTY CHURCHILL	TWP	RANGE	PPM
				PARTY MANAGER L. Davis		

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS
												LAT.	DEP.	Y	X	
									3901.0							
930	1315		114° 56'	+16.8°	7.9	89° 50'	+3.8	-4.1		3896.9		-875	+981	1899,875	554,051	
931	1646		114° 36'	" "	8.8	89° 50'	+4.8	-4.0		3897.0		-1089	+1235	1,899,661	554,305	
932	1976		114° 28'	" "	9.9	89° 50'	+5.8	-4.1		3896.9		-1303	+1485	1,899,447	554,555	
933	2306		114° 24'	" "	10.8	89° 50'	+6.7	-4.1		3896.9		-1519	+1735	1,899,231	554,805	
934	2636		114° 09'	" "	12.0	89° 50'	+7.7	-4.3		3896.7		-1728	+1991	1,899,022	555,061	
935	2966		114° 01'	" "	16.8	89° 50'	+8.6	-2.2		3898.8		-1939	+2245	1,898,811	555,315	
936	3295		113° 55' 04"	" "	10.6	89° 50'	+9.6	-1.0		3900.0	TP	-2149	+2497	1,898,599	555,569	
936	3295				6.9	89° 54'	+5.8	-1.1			TP	-2	+2			
	3959		296° 30' 42"	+16.8°	7.6	89° 50'	-11.5	-3.9	3896.2		BS	-2716	+2881			
	3959				12.4	89° 46'	-16.1	-3.7	3883		BS					
937	3630		296° 45'	+16.8°	11.1	89° 50'	+10.6	-0.5		3895.7		+2501	-2631	1,898,383	555,820	
938	3300		" "	" "	11.5	89° 50'	+9.6	+1.9		3894.3		+2274	-2392	1,898,156	556,056	
939	2970		" "	" "	11.0	89° 50'	+8.6	-2.4		3893.8		+2046	-2153	1,897,928	556,298	
940	2640		" "	" "	10.1	89° 50'	+7.7	-2.4		3893.8		+1819	-1913	1,897,701	556,538	
941	2310		296° 21'	+16.8°	9.3	89° 50'	+6.7	-2.6		3893.6		+1580	-1685	1,897,462	556,766	
942	1980		" "	" "	8.8	89° 50'	+5.8	-3.0		3893.2		+1354	-1445	1,897,236	557,006	
943	1650		" "	" "	7.8	89° 50'	+4.8	-3.0		3893.2		+1128	-1204	1,897,010	557,247	
944	1320		295° 58'	" "	7.1	89° 50'	+3.8	-3.3		3892.9		+896	-969	1,896,778	557,482	
945	990		" "	" "	6.3	89° 50'	+2.9	-3.4		3892.8		+672	-727	1,896,554	557,724	
946	660		" "	" "	5.8	89° 50'	+1.9	-3.9		3892.3		+448	-485	1,896,330	557,966	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 4.13.83	INSTRUMENT MAN B. Coteamp	ROD MAN D. Winkle	PARTY NUMBER 6834	NOTES CHECKED BY DW	LINE NO. 1	PAGE 63
AREA NEVADA	TOPO MAP LONE Rock N.W - 7 1/2	STATE NEVADA	COUNTY CHURCHILL	TWP	RANGE	PPM
				PARTY MANAGER L. Davis		

STATION NO.	SLOPE DISTANCE	PLOTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS	
												LAT.	DEP.	Y	X		
									3896.2								↑
947	330		294° 23'	+16.8°	5.1	89° 50'	+1.0	-4.1		3892.1		+217	-248	1,896,099	558,203	LONE Rock N.W - 7 1/2	
948	0				5.2	-		-5.2		3891.0	X	0	0	1,895,882	558,451	LONE Rock - 7 1/2	
949	330		114° 12'	+16.8°	6.0	-		-6.6		3890.2		-217	+249	1,895,665	558,700	↓	
950	660		115° 10'	" "	6.8	-		-6.8		3889.4		-441	+491	1,895,441	558,942		
951	990		115° 31'	" "	7.6	-		-7.6		3888.6		-668	+731	1,895,214	559,182		
952	1320		" "	" "	8.0	-		-8.0		3888.2		-890	+975	1,894,992	559,426		
953	1650		115° 10'	" "	8.8	-		-8.8		3887.4		-1103	+1227	1,894,779	559,678		
954	1979		114° 16'	+16.8°	10.3	-		-10.3		3885.9		-1300	+1492	1,894,582	559,943		
955	2306		113° 14'	" "	9.8	-		-9.8		3886.4		-1483	+1766	1,894,399	560,217		
956	2628		111° 33'	" "	10.0	-		-10.0		3886.2		-1631	+2061	1,894,251	560,512		
957	2952		110° 22'	" "	10.2	-		-10.2		3886.0		-1783	+2352	1,894,099	560,803		
958	3281		109° 46'	" "	10.2	-		-10.2		3886.0		-1955	+2635	1,893,927	561,086		
959	3609		109° 12'	" "	10.2	-		-10.2		3886.0		-2121	+2920	1,893,761	561,371		
960	3939		108° 54' 20"	" "	10.6	-		-10.6		3885.7	TP	-2299	+3199	1,893,582	561,651		
960	3939				10.3	270°		-10.3	-10.53		TP	-	+				
	3299		287° 28' 00" - 180°	+16.8°	3.9	-		+3.9	3889.6		BS	-1851	+2726				
	3299			+	13.4	89° 50'	-9.6	+3.8			BS	-	+				
961	2970		287° 35'	+16.8°	10.0	89° 54'	+5.2	-4.8		3884.8		+1677	-2451	1,893,401	561,927		
962	2640		288° 05'	" "	9.9	89° 54'	+4.6	-5.3		3884.3		+1510	-2166	1,893,234	562,212		

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4.13.83		B. Cotcamp		D. Wrinkle		6834		DW		10		64			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
NEVADA		LOWE ROCK - 7 1/2'		NEVADA		CHURCHILL								L. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									3889.6						
963	2310		288° 10'	+16.8°	11.0	89° 50'	+6.7	-4.3		3885.3		+1324	-1893	1,893,048	562,485
964	1980		" "	" "	10.1	89° 50'	+5.8	-4.3		3885.3		+1135	-1623	1,892,859	562,755
965	1650		287° 49'	" "	9.3	89° 50'	+4.8	-4.5		3885.1		+937	-1358	1,892,661	563,020
966	1320		287° 37'	" "	9.0	89° 50'	+3.8	-5.2		3884.4		+746	-1089	1,892,470	563,289
967	990		" "	" "	7.3	89° 50'	+2.9	-4.4		3885.2		+560	-817	1,892,284	563,561
968	660		287° 47'	" "	6.6	89° 50'	+1.9	-4.7		3884.9		+375	-543	1,892,099	563,835
969	330		" "	" "	6.0	89° 50'	+1.0	-5.0		3884.6		+187	-272	1,891,911	564,106
970	0				5.2	-	-	-5.2		3884.4	TP	0	0	1,891,724	564,378
971	330		109° 31'	+16.8°	6.1	89° 50'	+1.0	-5.1		3884.5		-195	+266	1,891,529	564,644
972	660		" "	" "	7.6	89° 50'	+1.9	-5.7		3883.9		-391	+532	1,891,333	564,910
973	990		" "	" "	8.7	89° 50'	+2.9	-5.8		3883.8		-586	+798	1,891,138	565,176
974	1320		109° 43'	" "	10.0	89° 50'	+3.8	-6.2		3883.4		-785	+1061	1,890,939	565,439
975	1650		" "	+16.8°	11.0	89° 50'	+4.8	-6.2		3883.4		-982	+1326	1,890,742	565,704
976	1980		110° 03'	" "	6.6	-	-	-6.6		3883.0		-1187	+1584	1,890,537	566,220
977	2310		110° 13'	" "	6.9	-	-	-6.9		3882.7		-1391	+1844	1,890,333	566,222
978	2640		110° 10'	" "	7.1	-	-	-7.1		3882.5		-1588	+2109	1,890,136	566,487
979	2970		109° 59'	" "	7.1	-	-	-7.1		3882.5		-1778	+2379	1,889,946	566,757
980	3301		109° 48' 15"	" "	7.1	-	-	-7.1		3882.6	TP	-1968	+2650	1,889,755	567,029
980	3301				14.6	89° 52'	+7.7	-6.9	-7.0		TP				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4.13.83		B. Cotcamp		D. Wrinkle		6834		DW		1		65			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
NEVADA		LONE ROCK - 7 1/2		NEVADA		CHURCHILL								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
										3882.6					
	3300		289° 53' 18"	+16.8°	9.4	89° 54'	-5.8	+3.6	3886.3		BS	-1972	+2646		
	3300			+13.3	89° 50'	-9.6	+3.7			BS					
981	2970		289° 53'	+16.8°	12.4	89° 50'	+8.6	-3.8		3882.5		+1774	-2382	1,889,556 567,294	
982	2640		289° 46'	" "	11.7	89° 50'	+7.7	-4.0		3882.3		+1573	-2120	1,889,355 567,556	
983	2310		" "	" "	10.9	89° 50'	+6.7	-4.2		3882.1		+1376	-1855	1,889,158 567,821	
984	1980		289° 19'	" "	10.0	89° 50'	+5.8	-4.2		3882.1		+1167	-1599	1,888,949 568,077	
985	1650		289° 10'	" "	9.1	89° 50'	+4.8	-4.3		3882.0		+969	-1335	1,888,751 568,341	
986	1320		" "	+16.8°	8.1	89° 50'	+3.8	-4.3		3882.0		+775	-1068	1,888,551 568,608	
987	990		" "	" "	7.7	89° 50'	+2.9	-4.8		3881.5		+581	-801	1,888,363 568,875	
988	660		" "	" "	6.8	89° 50'	+1.9	-4.9		3881.4		+388	-534	1,888,170 569,142	
989	330		290° 29'	" "	6.0	89° 50'	+1.0	-5.0		3881.3		+200	-263	1,887,982 569,413	
990	0				5.2	-		-5.2		3881.1	T	0	0	1,887,782 569,676	
991	330		109° 58'	+16.8°	6.3	89° 50'	+1.0	-5.3		3881.0		-198	+264	1,887,584 569,940	
992	660		" "	" "	7.4	89° 50'	+1.9	-5.5		3880.8		-395	+529	1,887,387 570,205	
993	990		" "	" "	8.8	89° 50'	+2.9	-5.9		3880.4		-593	+793	1,887,189 570,469	
994	1320		110° 19'	" "	9.5	89° 50'	+3.8	-5.7		3880.6		-797	+1053	1,886,985 570,729	
995	1650		110° 26'	" "	10.5	89° 50'	+4.8	-5.7		3880.6		-998	+1314	1,886,784 570,990	
996	1980		110° 34'	" "	6.2	-		-6.2		3880.1		-1202	+1574	1,886,580 571,250	
997	2310		" "	" "	6.2	-		-6.2		3880.1		-1402	+1836	1,886,380 571,200	

SURVEY NOTES-HIGH RESOLUTION DATA  
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4-13-83		B. Cotcamp		D. Wrinkle		6834		Dw		1		66			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
NEVADA		LONE Rock - 7 1/2'		NEVADA		CHURCHILL								L. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									3886.3						
998	2640		110° 34'	+16.8°	6.2	-		-6.2		3880.1		-1602	+2098	1,886,180	571,774
999	2970		" "	" "	6.7	-		-6.7		3879.6		-1803	+2360	1,885,979	572,036
1000	3301		110° 33' 36"	" "	6.8	-		-6.8		3879.7	TP	-2003	+2624	1,885,778	572,301
1000	3301				12.2	89° 54'	+5.8	-6.4	-6.63		TP				
	2969		288° 28' 59" - 180	+16.8°	11.7	89° 50'	-8.6	+3.1	3882.8		BS	-1715	+2424		
	2969				15.1	89° 46'	-12.1	+3.0			BS				
1001	2640		288° 19'	+16.8°	10.8	89° 50'	+7.7	-3.1		3879.7		+1519	-2159	1,885,581	572,567
1002	2310		288° 07'	" "	10.0	89° 50'	+6.7	-3.3		3879.5		+1322	-1894	1,885,384	572,832
1003	1980		288° 00'	" "	9.1	89° 50'	+5.8	-3.3		3879.5		+1130	-1626	1,885,192	573,100
1004	1650		287° 53'	" "	8.4	89° 50'	+4.8	-3.6		3879.2		+939	-1357	1,885,001	573,369
1005	1320		287° 13'	+16.8°	7.8	89° 50'	+3.8	-4.0		3878.8		+738	-1094	1,884,800	573,632
1006	990		" "	" "	7.0	89° 50'	+2.9	-4.1		3878.7		+554	-821	1,884,508	573,905
1007	660		286° 43'	" "	6.3	89° 50'	+1.9	-4.4		3878.4		+364	-550	1,884,426	574,176
1008	330		286° 00'	" "	5.7	89° 50'	+1.0	-4.7		3878.1		+179	-277	1,884,241	574,449
1009	0				5.2	-		-5.2		3877.6	X	0	0	1,884,062	574,726
1010	330		107° 58'	+16.8°	6.4	89° 50'	+1.0	-5.4		3877.4		-188	+271	1,883,874	574,997
1011	660		" "	" "	7.8	89° 50'	+1.9	-5.9		3876.9		-376	+542	1,883,686	575,268
1012	990		108° 47'	" "	8.9	89° 50'	+2.9	-6.0		3876.8		-576	+805	1,883,486	575,531
1013	1320		109° 19'	" "	9.9	89° 50'	+3.8	-6.1		3876.7		-778	+1066	1,883,284	575,792

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-146

Geosource Inc.

DATE	4.13.83	INSTRUMENT MAN	B. Cotcamp	ROD MAN	D. W. Rinkle	PARTY NUMBER	6834	NOTES CHECKED BY	DW	LINE NO.	1	PAGE	67
AREA	NEVADA	TOPO MAP	LowE Rock - 7 1/2'	STATE	NEVADA	COUNTY	Churchill	RANGE		PPM		PARTY MANAGER	L. Davis

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH +	EAST +	COORDINATES		REMARKS
												SOUTH -	WEST -	Y	X	
												LAT.	DEP.			
									3882.8							
1014	1650		109° 56'	+16.8	10.9	89° 50'	+4.8	-6.1		3876.7		-987	+1322	1,883,075	576,048	
1015	1980		110° 21'	" "	6.1	-		-6.1		3876.7		-1196	+1578	1,882,866	576,304	
1016	2310		" "	" "	6.2	-		-6.2		3876.6		-1395	+1841	1,882,667	576,567	
1017	2640		" "	" "	6.3	-		-6.3		3876.5		-1594	+2104	1,882,468	576,830	
1018	2970		110° 12' 53"	" "	6.7	-		-6.7		3876.3	TP	-1788	+2371	1,882,273	577,098	EO.L. LINE #1
1018	2970				6.4	270°		-6.4	3881.9		TP					NEVADA. PROTECT.
	1066		321° 27' 05" - 180	+16.8	5.6	-		+5.6			BS	-990	+395			
	1066			B.C.C. +	8.7	89° 50'	-3.1	+5.6			BS					
X	0				5.2	-		-5.2		3876.7	X	0	0	1,881,282	577,494	Y-1,879,935 X-577,990
SEC.	1434		143° 03' 52"	+16.8	5.0	-		-5.0		3876.9	TP	-1346	+494	1,879,935	577,990	SEC. CORNER EL. 3877.0
CORNER	1434				9.2	89° 50'	+4.2	-5.0			TP					30/29 31/32 HORIZ. y - 20' CORR. X - +19'

SURVEY NOTES-HIGH RESOLUTION DATA  
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4-22-83		B. Cotcamp		W. Greenfield		6834		KWB		1		68			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
NEVADA		Lone Rock-7 1/2'		NEVADA		CHURCHILL								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
K										3876.9	K				SEC. CORNER EL 3876.9
	2256		255° 15' 52"	+16.8°	5.0	-		+5.0			BS	-81	+2255		
	2256				+4.9	270°		+4.9	3881.8		BS	-2	-1		
1019	3630		290° 45'	+16.8°	9.5	89° 56'	+4.2	-5.3		3876.5		+2212	-2878	1,882,064	577,366
1020	3800		" "	" "	9.1	89° 56'	+3.8	-5.3		3876.5		+2011	-2616	1,881,863	577,628
1021	2970		" "	" "	8.9	89° 56'	+3.5	-5.4		3876.4		+1810	-2355	1,881,863	577,889
1022	2640		" "	" "	8.3	89° 56'	+3.1	-5.2		3876.6		+1609	-2093	1,881,46	578,151
1023	2310		" "	" "	8.1	89° 56'	+2.7	-5.4		3876.4		+1408	-1831	1,881,260	578,413
1024	1980		290° 45'	+16.8°	7.8	89° 56'	+2.3	-5.5		3876.3		+1207	-1570	1,881,059	578,674
1025	1650		" "	" "	7.2	89° 56'	+1.9	-5.3		3876.5		+1006	-1308	1,880,858	578,936
1026	1320		" "	" "	6.9	89° 56'	+1.5	-5.4		3876.4		+804	-1047	1,880,656	579,197
1027	990		" "	" "	6.3	89° 56'	+1.2	-5.1		3876.7		+603	-785	1,880,455	579,459
1028	660		" "	" "	5.8	89° 56'	+0.8	-5.0		3876.8		+402	-523	1,880,254	579,721
1029	330		" "	" "	5.3	89° 56'	+0.4	-4.9		3872.0		+201	-262	1,880,053	579,982
1030	0				5.2	-		-5.2		3876.6	λ	0	0	1,879,852	580,244
1031	330		110° 43'	+16.8°	5.0	-		-5.0		3876.8		-201	+262	1,879,651	580,506
1032	660		" "	" "	5.0	-		-5.0		3876.8		-402	+524	1,879,450	580,768
1033	990		" "	" "	5.0	-		-5.0		3876.8		-603	+785	1,879,249	581,029
1034	1320		" "	" "	4.9	-		-4.9		3876.9		-804	+1047	1,879,048	581,291
1035	1650		" "	" "	5.0	-		-5.0		3876.8		-1005	+1309	1,878,847	581,553

SURVEY NOTES-HIGH RESOLUTION DATA  
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4.22.83		B. Cotcamp		W. Greenfield		6834		2/2/83		1		69			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
NEVADA		Lone Rock - 7 1/2'		NEVADA		P. Churchill								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
									3881.8						
1036	1980		110° 43'	+16.8°	5.0	-		-5.0		3876.8		-1206	+1570	1878.446	581.814
1037	2310		" "	" "	5.1	-		-5.1		3876.7		-1407	+1832	1878.445	582.076
1038	2640		" "	" "	5.0	-		-5.0		3876.8		-1608	+2094	1878.244	582.338
1039	2970		" "	" "	5.2	-		-5.2		3876.6		-1809	+2356	1878.043	582.600
1040	3302		110° 39' 54"	" "	8.9	89° 56'	+3.8	-5.1		3876.7	TP	-2009	+2621	1877.841	582.864
1040	3302				14.7	89° 50'	+9.6	-5.1			TP	-2	-1		
	2641		290° 44' 56" - 180°	+16.8°	5.9	-		+5.9	3882.5		BS	-1610	+2094		
	2641				11.9	89° 52'	-6.2	+5.7	+5.8		BS	-2	-1		
1041	2310		290° 44'	+16.8°	6.0	-		-6.0		3876.5		+1407	-1832	1877.636	583.225
1042	1980		" "	" "	5.8	-		-5.8		3876.7		+1206	-1570	1877.435	583.387
1043	1650		" "	" "	10.1	89° 50'	+4.8	-5.3		3877.2		+1005	-1308	1877.234	583.649
1044	1320		" "	" "	9.2	89° 50'	+3.8	-5.4		3877.1		+804	-1047	1877.033	583.910
1045	990		290° 44'	" "	8.2	89° 50'	+2.9	-5.3		3877.2		+603	-785	1876.832	584.172
1046	660		" "	" "	7.2	89° 50'	+1.9	-5.3		3877.2		+402	-523	1876.631	584.340
1047	330		" "	" "	6.1	89° 50'	+1.0	-5.1		3877.4		+201	-262	1876.430	584.695
1048	0				5.2	-		-5.2		3877.3	X	0	0	1876.229	584.957
1049	330		110° 42'	+16.8°	5.9	89° 50'	+1.0	-4.9		3877.6		-201	+262	1876.028	585.219
1050	660		" "	" "	6.8	89° 50'	+1.9	-4.9		3877.6		-402	+524	1875.826	585.481
1051	990		" "	" "	7.7	89° 50'	+2.9	-4.8		3877.7		-603	+785	1875.625	585.742

SURVEY NOTES-HIGH RESOLUTION DATA  
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
4-22-83		B. Cotcamp		W. Greenfield		6834		KWB		1		70				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
NEVADA		LOWE Rock-7 1/2'		NEVADA		CHURCHILL								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
									3882.5							
1052	1320		110° 42'	+16.8°	8.2	89° 50'	+3.8	-4.4		3878.1		-804	+1047	1,875,425	586,004	
1053	1650		" "	" "	9.1	89° 50'	+4.8	-4.3		3878.2		-1004	+1309	1,875,225	586,266	
1054	1980		" "	" "	10.0	89° 50'	+5.8	-4.2		3878.3		-1205	+1571	1,875,024	586,528	
1055	2310		" "	" "	10.9	89° 50'	+6.7	-4.2		3878.3		-1406	+1833	1,874,823	586,790	
1056	2641		110° 39' 56"	" "	11.4	89° 50'	+7.7	-3.7	} 3.8'±	3878.7	TP	-1606	+2096	1,874,621	587,052	
1056	2641				3.9	-	-	-3.9			TP	-2	-			
	1650		290° 46' 44"	+16.8°	10.0	-	-	+10.0		3888.7	BS	-1006	+1308			
	1650				+5.2	90° 10'	+4.8	+10.0			BS	-2	-			
1057	1320		290° 45'	+16.8°	9.6	-	-	-9.6		3879.1		+804	-1047	1,874,417	587,812	
1058	990		" "	" "	8.0	-	-	-8.0		3880.7		+603	-785	1,874,216	587,574	
1059	660		" "	" "	6.2	-	-	-6.2		3882.5		+402	-523	1,874,015	587,836	
1060	330		" "	" "	5.4	-	-	-5.4		3883.3		+201	-262	1,873,814	588,097	
1061	0				5.2	-	-	-5.2		3883.5	X	0	0	1,873,613	588,359	
1062	330		110° 42'	+16.8°	4.8	-	-	-4.8		3883.9		-201	+262	1,873,412	588,621	
1063	660		" "	" "	4.0	-	-	-4.0		3884.7		-402	+524	1,873,211	588,883	
1064	990		" "	" "	6.7	89° 50'	+2.9	-3.8		3884.9		-603	+785	1,873,010	589,144	
1065	1320		" "	" "	7.1	89° 50'	+3.8	-3.3		3885.4		-804	+1047	1,872,809	589,406	
1066	1650		110° 41' 58"	" "	7.6	89° 50'	+4.8	-2.8	}	3885.9	TP	-1004	+1309	1,872,607	589,667	
1066	1650											-2	-			

SURVEY NOTES-HIGH RESOLUTION DATA

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4-26-83		B. Lotcamp		D. Winkle		6834		DW		1		71			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
NEVADA		Low Rock-7 1/2'		NEVADA		Peg Churchill								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
										3885.9					
	3301		290° 45' 28" - 180'	+16.8°	10.2	-		+10.2	3896.1		BS	-2012	+2617		
	3301			+13.9°	89° 56'	-3.8	+10.1			BS	-1	-1			
1067	2970		290° 43'	+16.8°	9.7	-	-9.7		3886.4			+1809	-2356	1,872,403 589,927	
1068	2640		" "	" "	9.2	-	-9.2		3886.9			+1608	-2094	1,872,202 590,189	
1069	2310		" "	" "	8.8	-	-8.8		3887.3			+1407	-1832	1,872,001 590,451	
1070	1980		" "	" "	8.1	-	-8.1		3888.0			+1206	-1576	1,871,800 590,713	
1071	1650		290° 43'	+16.8°	7.8	-	-7.8		3888.3			+1005	-1309	1,871,599 590,974	
1072	1320		" "	" "	7.2	-	-7.2		3888.9			+804	-1047	1,871,398 591,236	
1073	990		" "	" "	6.8	-	-6.8		3889.3			+603	-785	1,871,197 591,498	
1074	660		" "	" "	6.2	-	-6.2		3889.9			+402	-524	1,870,996 591,759	
1075	330		" "	" "	5.3	-	-5.3		3890.8			+201	-262	1,870,795 592,021	
1076	0				5.2	-	-5.2		3890.9		T	0	0	1,870,594 592,283	
1077	330		110° 42'	+16.8°	6.2	89° 40'	+1.9	-4.3		3891.8		-201	+262	1,870,393 592,545	
1078	660		" "	" "	7.4	89° 40'	+3.8	-3.6		3892.5		-402	+524	1,870,192 592,807	
1079	990		" "	" "	8.6	89° 40'	+5.8	-2.8		3893.3		-603	+785	1,869,991 593,068	
1080	1320		" "	" "	9.9	89° 40'	+7.7	-2.2		3893.9		-804	+1047	1,869,790 593,330	
1081	1650		110° 42'	+16.8°	10.9	89° 40'	+9.6	-1.3		3894.8		-1004	+1309	1,869,590 593,592	
1082	1980		" "	" "	11.1	89° 40'	+11.5	+0.4		3896.5		-1205	+1571	1,869,389 593,854	
1083	2310		" "	" "	11.7	89° 40'	+13.4	+1.7		3897.8		-1406	+1833	1,869,188 594,116	

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
4-26-83		B. Cotcamp		W. Greenfield		6834		Dw		1		72				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
NEVADA		LONE ROCK - 7 1/2'		NEVADA		CHURCHILL								L. Davis		
STATION NO.	SLOPE DISTANCE	PLOTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
									3896.1							
1084	2640		110° 42'	+16.8°	12.0	89° 40'	+15.4	+3.4		3899.5		-1607	+2094	1,868,987	594,377	
1085	2970		" "	" "	11.8	89° 40'	+12.3	+5.5		3901.6	E.O.L. Line	-1808	+2356	1,868,786	594,639	E.O.L. Line #1
TP	3301		291° 17' 35"	" "	10.0	-	-	-10.0		3886.1	TP	+2037	-2598	1,872,630	589,684	
TP	3301				13.8	89° 56'	+3.8	-10.0			TP					
	3302		110° 16' 01" +180	+16.8°	8.3	89° 50'	-9.6	-1.3	3884.7		BS	+1990	-2635			
	3302				+13.9	89° 44'	-15.4	-1.5	-1.4		BS					
X	0				5.2	-		-5.2		3879.5	X	0	0	1,874,619	587,049	
TP	3302		291° 09' 05"	+16.8°	7.2	-		-7.2		3877.6	TP	+2031	-2604	1,876,649	584,445	
TP	3302				12.8	89° 54'	+5.8	-7.0	-7.1		TP					
	3304		110° 51' 06"	+16.8°	14.6	89° 50'	-9.6	+5.0			BS	+2018	-2616			
	3304				+10.7	89° 54'	-5.8	+4.9	3882.5		BS					
X	0				5.2	-		-5.2		3877.3	X	0	0	1,878,666	581,829	
TP	3299		290° 49' 32"	+16.8°	9.3	89° 56'	+3.8	-5.5		3877.2	TP	+2014	-2613	1,880,679	579,216	
TP	3299				14.8	89° 50'	+9.6	-5.2	-5.3		TP					
	784		42° 11' 36" +180	+16.8°	4.7	-		+4.7	3881.9		BS	-403	-673			
	784				+6.9	89° 50'	-2.3	+4.6			BS					
X	0				5.2	-		-5.2		3876.8	X	0	0	1,880,215	578,543	
Sec.	649		221° 41' 03"	+16.8°	4.4	-		-4.4		3877.5	Sec.	-339	-553	1,879,935	577,990	
corner	649				6.3	89° 50'	+1.9	-4.4			corner					

1,879,935 X - 577,990  
 Sec. corner  
 50129  
 5132  
 Horiz -20  
 CORR. X -8