

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 4-17-86	INSTRUMENT MAN B. Cotcamp	ROD MAN R Hulsey	PARTY NUMBER 6834	NOTES CHECKED BY J.M. R.H.	LINE NO. 7	PAGE 1
AREA ARIZONA	TOPO MAP Tucker Mesa -7 1/2	STATE AZ.	COUNTY COCONINO	TWP	RANGE	PPM
				PARTY MANAGER S. Binns		

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		ARIZONA CENTRAL ZONE COORD. SYSTEM REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
K	U.S.C + 65. - 5.342	1958 ELEV.	5053	SCALED	4.900	X	-813.375		5053.0	K				1484.900 x - 813.375 U.S.C + 65 Bm EL. 5053.0
	4179		346 39 43	+11.8	15.0	90 05	+6.1	+21.1	21.3 } 5074.3	BS	-4177	+112		
	4179			+14.2	269 54	+7.3	+21.5			BS				
A	0				5.1	-		-5.1		A	0	0	1480.723	813.487
1	5061		120 32 10	-	6.3	90 25 30	-37.5	-43.8	43.7 } 5030.6	TP	-3408	+3741	1477.314	817.228
1	5061				6.0	269 31 30	-37.5	-43.5			TP			
	2771		75 17 09	-	14.6	90 18	+14.5	+29.1	29.0 } 5059.6	BS	-141	-2767		
	2771				14.3	269 42	+14.5	+28.8			BS			
2	2438		75 20	-	14.1	90 20	-14.2	-28.3			+122	+2435	1477.295	816.896
3	2108		-	+11.8	13.0	90 20	-12.3	-25.3			+105	+2105	1477.279	816.566
4	1778		-	-	11.2	90 20	-10.3	-21.5			+89	+1776	1477.262	816.237
5	1448		-	-	9.8	90 20	-8.4	-18.2			+72	+1446	1477.246	815.907
6	1118		75 20	-	9.9	90 20	-6.5	-16.4			+56	+1117	1477.229	815.577
7	788		-	+11.8	8.8	90 20	-4.6	-13.4			+39	+787	1477.213	815.248
8	458		-	-	6.2	90 20	-2.7	-8.9			+23	+457	1477.196	814.918
9	128		-	-	5.2	-		-5.2			+6	+128	1477.179	814.589
A	0				5.1	-		-5.1		A	0	0	1477.173	814.461
10	202		235 05	-	7.0	89 20	+2.4	-4.6			-79	-186	1477.094	814.275
11	533		-	-	8.7	89 20	+6.2	-2.5			-209	-490	1476.964	813.971
12	864		-	-	6.0	89 20	+10.1	+4.1			-339	-795	1476.834	813.666
13	194		-	-	7.0	89 20	+13.9	+4.9			-469	-1098	1476.705	813.363

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
4-17-86		B. Champ		R. Hulse		6834		J.M. R.H.		7	2						
AREA		TOPO MAP		STATE	COUNTY	TWP	RANGE	6PM	PARTY MANAGER								
ARIZONA		Tucker Mesa-7 1/2'		AZ	COCONINO				S. Binns								
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		
									5059.6								
14	1525		235° 05'	+11.8°	7.8	89° 20'	+17.7	+9.9		5069.5		-599	-1402	1,476,575	813,058		
15	1855		- -	-	7.0	89° 20'	+21.6	+14.6		5074.2		-728	-1706	1,476,445	812,755		
+	1856		235° 04' 03"	-	6.9	89° 20'	+21.6	+14.7		5074.3	+	-729	-1707	1,476,444	812,754	Y=1,476,445 X=812,785 Tucker Mesa corner	
16	2185		235° 05'	-	8.0	89° 20'	+25.4	+17.4		5077.0		-858	-2009	1,476,315	812,451		
17	2515		- -	-	5.4	89° 20'	+29.3	+23.9		5083.5		-987	-2313	1,476,186	812,148		
18	2848		235° 13' 48"	-	9.3	89° 20'	+33.1	+23.8			TP	-1111	-2622	1,476,062	811,839	Tucker Mesa-7 1/2'	
18	2848				14.2	270° 46'	+38.1	+23.9		5083.5	TP						
	2639		55° 04' 40"	+11.8°	+14.2	90° 02'	+1.5	+15.7		5063.5099.1	BS	-1036	-2427				
	2639				+13.9	269° 58'	+1.5	+15.4			BS						
19	2310		55° 05'	-	12.0	90° 04'	-2.7	-14.7		5084.4		+907	+2125	1,475,933	811,536	Tucker Mesa SW-7 1/2'	
20	1980		- -	-	9.7	90° 04'	-2.3	-12.0		5087.1		+777	+1821	1,475,803	811,233		
21	1650		- -	-	7.2	90° 04'	-1.9	-9.1		5090.0		+648	+1518	1,475,673	810,929		
22	1320		- -	-	5.2	90° 04'	-1.5	-6.7		5092.4		+518	+1214	1,475,544	810,626		
23	990		- -	-	6.3	-		-6.3		5092.8		+389	+911	1,475,414	810,322		
24	660		- -	-	6.6	-		-6.6		5092.5		+259	+607	1,475,285	810,019		
25	330		- -	-	7.1	-		-7.1		5092.0		+130	+304	1,475,155	809,715		
26	0				5.1	-		-5.1		5094.0	X	0	0	1,475,026	809,412		
27	330		235° 04'	+11.8°	5.6	TH	+1.7	-3.9		5095.2		-130	-303	1,474,896	809,108		
28	660		- -	-	5.4	TH	+3.3	-2.1		5097.0		-259	-607	1,474,766	808,805		
29	990		- -	-	8.5	89° 20'	+11.5	+3.0		5102.1		-389	-910	1,474,637	808,501		

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
4-17-86		B. Cotcamp		R. Hulse		6834		J.M. R.H.		7	3				
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PARTY MANAGER					
ARIZONA		Tucker Mesa S.W. 74		AZ.		COCONINO				S. B. INNS					
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH -	EAST + WEST -		Y
									5099.1						
30	1320		235 04	+11.8	8.0	89 20	+15.4	+7.4		5106.5		-519	-1214	1,474,507	808,198
31	1650		- -	-	8.3	89 20	+19.2	+10.9		5110.0		-648	-1517	1,474,377	807,895
32	1978		234 20	-	11.0	89 20	+23.0	+12.0		5111.1		-800	-1809	1,474,225	807,603
33	2277		230 35	-	11.8	89 24	+23.8	+12.0		5111.1		-1055	-2017	1,473,970	807,394
34	2580		227 30	-	10.8	89 24	+27.0	+16.2		5115.3		-1317	-2218	1,473,708	807,194
TP	2801		226 06 30	-	12.2	89 24	+29.3	+17.1		5116.2	TP	-1488	-2373	1,473,538	807,039
TP	2801				12.3	270 36	+29.3	+17.0			TP				
	3372		61 14 28	+11.8	14.9	89 48	-11.8	+3.1	3.0	5119.2	BS	-984	-3225		
	3372				14.6	270 12	-11.8	+2.8			BS				
35	3285		61 39	-	11.2	-	-	-11.2		5108.0		+936	+3149	1,473,490	806,962
36	2954		62 20	-	6.5	BH	-14.8	-21.3		5097.9		+808	+2841	1,473,362	806,655
37	2627		62 25	-	10.7	BH	-13.1	-23.8		5095.4		+715	+2528	1,473,269	806,342
38	2297		- -	-	8.8	BH	-11.5	-20.3		5098.9		+625	+2210	1,473,179	806,024
39	1972		61 50	+11.8	12.7	BH	-9.9	-22.6		5096.6		+556	+1892	1,473,110	805,706
40	1642		60 40	-	13.0	-	-	-13.0		5106.2		+495	+1566	1,473,049	805,379
41	1315		61 -	-	7.9	BH	-6.6	-14.5		5104.7		+389	+1256	1,472,943	805,070
42	986		61 40	-	10.7	BH	-4.9	-15.6		5103.6		+281	+945	1,472,834	804,759
43	659		62 10	-	11.5	BH	-3.3	-14.8		5104.4		+182	+633	1,472,736	804,447
44	330		- -	-	12.1	-	-	-12.1		5107.1		+91	+317	1,472,645	804,131
45	0				5.1	-	-	-5.1		5114.1	TP	0	0	1,472,554	803,814

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE		
4-17-86		B. Cotamp		R. Hulsey		6834		J.M., R.H.		7		4		
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PARTY MANAGER		
ARIZONA		Tucker Mesa SW-7 1/2		AZ.		COCONINO						S. Binns		
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.	
									5119.2					
46	330		241 35	+11.8	6.4	89 20	+3.8	-2.6		5116.6		-94	-316	1,472,460 803,497
47	660		- -	-	4.6	89 20	+7.7	+3.1		5122.3		-189	-632	1,472,365 803,181
48	990		- -	-	4.9	89 20	+11.5	+6.6		5125.8		-283	-949	1,472,271 802,865
49	1320		- -	-	4.3	89 20	+15.4	+11.1		5130.3		-377	-1265	1,472,177 802,549
50	1650		241 35	+11.8	4.7	89 20	+19.2	+14.5		5133.7		-472	-1581	1,472,082 802,233 Section line 5-1,472,070 X-802,220
51	1980		- -	-	12.0	89 20	+23.0	+11.0		5130.2		-566	-1897	1,471,988 801,916
52	2310		- -	-	14.3	89 20	+26.9	+12.6		5131.8		-661	-2213	1,471,893 801,600
53	2640		- -	-	12.3	89 20	+30.7	+18.4		5137.6		-755	-2530	1,471,799 801,284
54	2970		- -	-	11.7	89 20	+34.6	+22.9		5142.1		-849	-2846	1,471,705 800,968
55	3361		241 32 04	+11.7	14.1	89 16	+42.2	+28.1			TP	-952	-3160	1,471,602 800,653
55	3301				13.8	270 44	+42.2	+28.4	+28.3	5147.5	TP			
	1651		61 43 12	-	14.4	89 46	-6.7	+7.7		5155.2	BS	-471	-1582	
	1651				14.3	270 14	-6.7	+7.6			BS			
56	1320		61 43	-	9.8	89 44	+6.1	-3.7		5151.5		+377	+1265	1,471,508 800,336
57	990		- -	-	9.4	89 30	+8.6	-0.8		5154.4		+283	+949	1,471,413 800,020
58	660		- -	-	6.0	89 30	+5.8	-0.2		5155.0		+188	+633	1,471,319 799,703
59	330		- -	-	3.9	89 30	+2.9	-1.0		5154.2		+94	+316	1,471,225 799,387
60	0				5.1	-		-5.1		5150.1	X	0	0	1,471,131 799,071
61	330		241 22	+11.7	11.0	90 40	-3.8	-14.8		5140.4	X	-96	-316	1,471,035 798,755
62	660		- -	-	6.1	90 40	-7.7	-13.8		5141.4		-192	-631	1,470,939 798,439

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4-17-86		B. C. Camp		R. Hulsey		6834		J.M., R.A.H.		7	5				
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
ARIZONA		Tucker Mesa SW-7E		AZ.		COCONINO					S. Binns				
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH -	EAST + WEST -		Y
									5155.2						
63	990		241 22	+11.7	11.3	89 40	+5.8	-5.5		5149.7		-288	-947	1,470,842	798,124
64	1320		- -	-	4.9	89 40	+7.7	+2.8		5158.0		-384	-1263	1,470,746	797,808
65	1650		- -	-	5.8	89 40	+9.6	+3.8		5159.0		-481	-1578	1,470,650	797,492
66	1980		- -	-	10.3	89 40	+11.5	+1.2		5156.4		-577	-1894	1,470,554	797,177
67	2310		241 30	-	9.4	89 34	+17.5	+8.1		5163.3		-668	-2211	1,470,463	796,859
68	2640		241 35	-	8.8	89 26	+26.1	+17.3		5172.5		-759	-2528	1,470,371	796,543
69	2970		241 48 42	-	13.3	89 20	+34.6	+21.3			TP	-843	-2848	1,470,288	796,223
69	2970				4.8	270 30	+25.9	+21.1	22.23	5176.4	TP				
	2376		99 28 08	+11.7	14.0	90 04	+2.8	+16.8			BS	+858	-2216		
	2376				14.1	269 56	+2.8	+16.9	5193.3		BS				
70	2056		101 50	-	7.5	90 10	-6.0	-13.5		5179.8		-821	+1885	1,470,325	795,892
71	1744		102 30	-	5.1	90 10	-5.1	-10.2		5183.1		-715	+1591	1,470,431	795,598
72	1415		101 10	-	8.5	90 10	-4.1	-12.6		5180.7		-550	+1304	1,470,596	795,311
#	1088		100 18 56	-	9.7	90 10	-3.2	-12.9		5180.4		-408	+1009	1,470,738	795,016
73	1105		97 15	-	9.8	90 10	-3.2	-13.0		5180.3		-359	+1045	1,470,787	795,053
74	778		95 20	-	6.2	91 50	-24.9	-31.1		5162.2	#	-228	+743	1,470,918	794,751
75	473		103 10	-	7.2	91 20	-11.0	-18.2		5175.1		-199	+429	1,470,947	794,437
76	144		108 30		5.2	91 20	-3.3	-8.5		5184.8		-72	+124	1,471,073	794,132
K	0			-	5.1	-		-5.1		5188.2	K	0	0	1,471,146	794,007
77	203		238 30	-	7.2	89 30	+1.8	-5.4		5187.9		-69	-191	1,471,077	793,816

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4-17-86		B. Cotcamp		R. Hulse		6834		J.M., R.J.H.		7	6				
AREA		TOPO MAP	STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER						
ARIZONA		Ticker Mesa SW-76	AZ.	COCONINO					S. Binns						
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
									5193.3						
78	533		241 50	+11.7	9.1	89 30	+4.7	-4.4		5188.9		-151	-511	1,470,995	793,496
79	863		240 40	-	7.8	89 30	+7.5	-0.3		5193.0		-261	-822	1,470,884	793,185
80	1177		235 30	-	8.2	89 30	+10.3	+2.1		5195.4		-456	-1085	1,470,690	792,922
81	1484		231 10	-	10.9	89 20	+17.3	+6.4		5199.7		-677	-1321	1,470,469	792,687
82	1813		-	-	9.5	89 20	+21.1	+11.6		5204.9		-827	-1613	1,470,319	792,394
TP	2111		230 50 26	-	12.7	89 08	+31.9	+19.2		5212.5	TP	-973	-1873	1,470,173	792,135
TP	2111				12.6	270 52	+31.9	+19.3			TP				
	2716		42 23 -	+11.7	13.9	90 30	+23.7	+37.6	37.5	5250.0	BS	-1593	-2200		
	2716				13.6	269 30	+23.7	+37.3			BS				
83	2695		43 40	-	8.7	90 40	-31.4	-40.1		5209.9		+1532	+2217	1,470,111	792,152
84	2365		43 15	-	7.8	90 50	-34.4	-42.2		5207.8		+1358	+1936	1,469,937	791,871
85	2035		43 20	-	9.5	90 50	-29.6	-39.1		5210.9		+1166	+1667	1,469,746	791,602
86	1705		43 38	-	8.2	90 50	-24.8	-33.0		5217.0		+970	+1402	1,469,549	791,337
87	1375		44 20	+11.7	10.2	90 50	-20.0	-30.2		5219.8		+768	+1140	1,469,348	791,075
88	1049		44 58	-	7.0	90 50	-15.3	-22.3		5227.7		+576	+876	1,469,156	790,811
89	727		49 50	-	8.0	90 50	-10.6	-18.6		5231.4		+346	+639	1,468,926	790,574
90	437		42 35	-	5.7	90 40	-5.1	-10.8		5239.2		+255	+355	1,468,835	790,290
91	135		10 10	-	4.9	-	-	-4.9		5245.1		+125	+50	1,468,705	789,985
Σ	0				5.1	-	-	-5.1		5244.9	Σ	0	0	1,468,579	789,935
92	243		251 50	-	6.0	89	+4.2	-1.8		5248.2		-27	-241	1,468,552	789,674

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AREA	ARIZONA	TOPO MAP	Tucker Mesa S.W. 7 1/2	STATE	AZ.	COUNTY	COCONINO	TWP		PARTY MANAGER	S. Binns		

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.	
									5250.0					
91	295		246 32 32	+11.7	6.1	89 -	+5.1	-1.0		5249.0		-60	-289	1,468,519 789,646
93	458		212 -	-	8.0	89 -	+8.0	0.0		5250.0		-331	-316	1,468,248 789,619
94	755		198 10	-	10.0	89 -	+13.2	+3.2		5253.2		-655	-376	1,467,925 789,559
95	1079		193 05	-	9.9	89 -	+18.8	+8.9		5258.9		-979	-452	1,467,600 789,483
96	1409		191 27	-	12.0	89 -	+24.6	+12.6		5262.6		-1295	-554	1,467,284 789,381
97	1737		190 35	+11.7	13.7	89 -	+30.3	+16.6		5266.6		-1607	-659	1,466,972 789,276
#	1950		189 11 42	-	13.4	89 -	+34.0	+20.6		5270.6		-1821	-695	1,466,758 789,240
98	2036		187 35	-	13.0	89 -	+35.5	+22.5		5272.5		-1921	-672	1,466,658 789,263
99	2300		182 25	-	9.8	89 -	+40.1	+30.3		5280.3		-2230	-561	1,466,349 789,374
100	2477		185 29 12	-	10.0	89 -	+43.2	+33.2		5283.2	TP	-2366	-732	1,466,213 789,203
100	2477				9.9	271 -	+43.2	+33.3			TP			
	2873		84 21 48	+11.7	10.2	90 30	+25.1	+35.3		5318.5	BS	+303	-2857	
	2873				10.1	269 30	+25.1	+35.2			BS			
101	2543		84 35	-	13.8	90 30	-22.2	-36.0		5282.5		-278	+2528	1,466,239 788,874
102	2212		84 55	-	9.8	90 38	-24.4	-34.2		5284.3		-255	+2197	1,466,262 788,544
103	1884		85 10	-	11.7	90 38	-20.8	-32.5		5286.0		-225	+1870	1,466,292 788,217
104	1555		85 45	-	8.8	90 40	-18.1	-26.9		5291.6		-202	+1542	1,466,315 787,888
105	1227		86 40	-	11.0	90 40	-14.3	-25.3		5293.2		-179	+1214	1,466,338 787,560
106	902		90 40	-	9.0	90 40	-10.5	-19.5		5299.0		-193	+881	1,466,324 787,227
107	660		106 55	-	6.2	90 40	-7.7	-13.9		5304.6		-316	+579	1,466,201 786,926

y = 1,468,490 x - 789,655
T-Inte, El. 52490

y = 1,466,760 x - 789,260
pipeline

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4-22-86		B. Cotcamp		R. Hulsey		6834		J.M. R.J.H		7		8			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		Tucker Mesa SW-7 1/2		AZ.		COCONINO								S. Binns.	
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
									5318.5						
108	330		106 50	+11.7	7.6	90 40	-3.8	-11.4		5307.1		-158	+290	1,466,359	786,636
109	0				5.1	-		-5.1		5313.4	TP	0	0	1,466,517	786,344
110	330		292 -	-	10.0	89 16	+4.8	-5.2		5313.3		+183	-275	1,466,700	786,072
111	660		- -	-	9.2	89 16	+9.6	+0.4		5318.9		+366	-549	1,466,883	785,797
112	990		292 10	-	9.7	89 10	+14.4	+4.7		5323.2		+552	-822	1,467,068	785,524
113	1319		290 05	-	12.0	89 10	+19.2	+7.2		5325.7		+695	-1121	1,467,212	785,225
114	1635		286 10	-	12.8	89 26	+19.0	+6.2		5324.7		+764	-1445	1,467,281	784,901
115	1957		283 55	+11.7	11.7	89 20	+22.8	+11.1		5329.6		+846	-1765	1,467,363	784,582
	2031		299 21 54	-	10.6	89 30	+17.7	+7.1		5325.6		+1334	-1531	1,467,851	784,815
116	2272		282 15	-	7.3	89 20	+26.4	+19.1		5337.6		+922	-2076	1,467,439	784,270
117	2551		278 10	-	9.7	89 16	+37.1	+27.4		5345.9		+867	-2399	1,467,384	783,947
118	2772		273 -	-	13.0	89 04	+45.1	+32.1		5350.6		+703	-2681	1,467,220	783,665
119	2891		266 50	+11.7	12.6	88 56	+53.8	+41.8		5360.3		+429	-2859	1,466,946	783,488
120	3049		261 25	-	18.8	88 42	+69.2	+50.4		5368.9		+166	-3044	1,466,683	783,303
TP	3211	3210.2	261 08 18	-	10.7	88 42	+72.8	+62.1			TP	+159	-3206	1,466,676	783,140
TP	3211				10.6	271 18	+72.8	+62.2		5380.7	TP				
	2615		79 06 30	-	5.5	91 -	+45.6	+51.1	+51.0	5431.7	BS	+37	-2614		
	2615				5.2	269 -	+45.6	+50.8			BS				
121	2569		83 05		13.5	91 -	-43.8	-57.3		5374.4		-209	+2500	1,466,504	783,026

5324.0

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	4-22-86	INSTRUMENT MAN	B. Cotcamp	ROD MAN	R. Hulsey	PARTY NUMBER	6834	NOTES CHECKED BY	J.M. RA.H	LINE NO.	7	PAGE	9	
AREA	ARIZONA	TOPO. MAP	Tucker Mesa SW-7 1/2	STATE	AZ.	COUNTY	COCONINO	TWP		RANGE		PPM	PARTY MANAGER	S. Binns

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.	
									5431.7					
122	2237		87° 45'	+11.7	11.8	91° 20'	-52.0	-63.8		5367.9		-367	+2206	1,466,346 782,732
123	1926		90° 46'	-	7.3	91° 20'	-44.8	-52.1		5379.6		-412	+1881	1,466,300 782,407
124	1603		92° 20'	-	5.4	91° 20'	-37.3	-42.7		5389.0		-389	+1555	1,466,324 782,081
125	1290		88° 25'	-	5.0	91° 20'	-30.0	-35.0		5396.7		-227	+1270	1,466,486 781,795
126	984		82° 40'	-	9.3	91° -	-17.2	-26.5		5405.2		-75	+981	1,466,638 781,507
127	660		81° 30'	-	6.8	91° -	-11.5	-18.3		5413.4		-37	+659	1,466,676 781,185
128	330		- -	-	6.2	91° -	-5.8	-12.0		5419.7		-18	+329	1,466,694 780,855
129	0				5.1	-		-5.1		5426.6	π	0	0	1,466,713 780,526
130	330		265° 35'	+11.7	6.9	89° -	+5.8	-1.1		5430.6		+42	-327	1,466,755 780,199
131	660		- -	-	8.9	89° -	+11.5	+2.6		5434.3		+84	-655	1,466,796 779,871
132	982		263° 40'	-	12.0	89° -	+17.1	+5.1		5436.8		+92	-978	1,466,805 779,548
133	1229		253° 05'	-	8.0	89° 20'	+14.3	+6.3		5438.0		-112	-1224	1,466,601 779,302
134	1517		246° -	-	9.6	89° 20'	+17.6	+8.6		5440.3		-323	-1482	1,466,390 779,044
135	1807		241° 10'	+11.7	10.7	89° 20'	+21.0	+10.3		5442.0		-532	-1727	1,466,180 778,799
136	2127		237° 40'	-	8.0	89° 30'	+18.6	+10.6		5442.3		-750	-1990	1,465,963 778,535
137	2376		232° 35'	-	13.8	89° 30'	+20.7	+6.9		5438.6		-1031	-2141	1,465,682 778,385
138	2700		232° 15'	-	12.8	89° 35'	+19.6	+6.8		5438.5		-1186	-2426	1,465,527 778,100
139	3012		230° 45'	-	11.1	89° 30'	+26.3	+15.2		5446.9		-1393	-2670	1,465,320 777,855
140	3246		226° 46'	-	6.6	89° 30'	+28.3	+21.7		5453.4		-1698	-2767	1,465,015 777,759

1,465,950x-778,500
4-Inter.
Last stop.

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
4-22-86		B. Cotcamp		R. Hulsey		6834		J.M. R.H.		7	10						
AREA		TOPO MAP	STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER								
ARIZONA		Tucker Mesa S.W. 7 1/2	AZ.	COCONINO					S. D. HNS								
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.				
									5431.7								
TP	3513		228° 15' 16"	+11.7	12.4	89° 24'	+36.8	+24.4			TP	-1759	-3041	1464.954	777.485		
TP	3513				12.3	276° 36'	+36.8	+24.5		5456.2	TP						
	2310		35° 51' 51"	-	+10.2	90° 40'	+26.9	+37.1	5493.3		BS	-1559	-1705				
	2310				+10.1	269° 20'	+26.9	+37.0			BS						
141	2291		34° 05'	-	10.3	90° 40'	-26.7	-37.0		5456.3		+1598	+1642	1464.993	777.422		
142	1963		34° -	-	11.8	90° 40'	-22.8	-34.6		5458.7		+1371	+1405	1464.766	777.185		
143	1633		33° 45'	-	13.5	90° 40'	-19.0	-32.5		5460.8		+1146	+1164	1464.541	776.944		
144	1306		32° -	-	11.3	90° 50'	-19.0	-30.3		5463.0		+944	+902	1464.339	776.682		
145	983		29° 46'	+11.7	6.3	90° 50'	-14.3	-20.6		5472.7		+738	+650	1464.133	776.430		
146	660		25° 40'	-	10.9	-	-	-10.9		5482.4		+525	+401	1463.920	776.181		
147	330		25° -	-	9.5	-	-	-9.5		5483.8		+265	+197	1463.660	775.977		
148	0				5.1	-	-	-5.1		5488.2	TP	0	0	1463.395	775.780		
149	336		204° 40'	-	9.3	89° 10'	+4.8	-4.5		5488.8		-266	-196	1463.130	775.585		
150	660		-	-	8.6	89° 10'	+9.6	+1.0		5494.3		-531	-391	1462.864	775.389		
151	966		204° 29' 58"	+11.7	7.8	89° 10'	+13.2	+5.4		5498.7		-731	-535	1462.664	775.245	1/4 - 1462.630 x - 775.200 1/4 - Inter.	
151	987		205° 50'	-	6.9	89° 10'	+14.4	+7.5		5500.8		-783	-601	1462.613	775.179		
152	1312		208° 55'	-	5.9	89° 10'	+19.1	+13.2		5506.5		-996	-854	1462.399	774.926		
153	1641		210° 40'	-	5.7	89° 10'	+23.9	+18.2		5511.5		-1212	-1106	1462.183	774.675	Tucker Mesa S.W. 7 1/2	
154	1968		211° 20'	-	9.0	89° 10'	+28.6	+19.6		5512.9		-1438	-1343	1461.957	774.437	Meteor Crater - 7 1/2	
155	2300		212° 20'	-	11.1	89° 10'	+33.4	+22.3		5515.6		-1653	-1599	1461.742	774.182		

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4-22-86		B. Cotcamp		R. Huisey		6834		J.M. R.F.H		7		11			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		Meteo Crater - 7k		AZ.		COCONINO								S. Binns	
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
									5493.3						
156	2628		213 30	+11.7	12.0	89° 16'	+33.6	+21.6		5514.9		-1852	-1865	1,461,544	773,916
157	2944		214 50	-	18.9	89° 16'	+37.7	+18.8		5512.1		-2025	-2137	1,461,370	773,644
158	3268		216 -	-	19.2	89° 22'	+36.1	+16.9		5510.2		-2199	-2417	1,461,196	773,363
159	3593		217 15	-	13.0	89° 22'	+39.7	+26.7		5520.0		-2359	-2709	1,461,036	773,071
160	3904		218 37 38	+12.1	10.3	89° 22'	+43.2	+32.9			TP	-2471	-3022	1,460,924	772,758
160	3904				10.0	270 38	+43.2	+33.2	+33.13	5526.4	TP				
	1648		47 34 46	-	14.3	96° 08'	+3.8	+18.1		5544.5	BS	-832	-1423		
	1648				14.2	269 52	+3.8	+18.0			BS				
161	1320		47 55	-	9.6	BH	-6.6	-16.2		5528.3		+660	+1143	1,460,752	772,479
162	990		49 25	-	13.0	-	-	-13.0		5531.5		+472	+870	1,460,564	772,206
163	660		51 10	-	6.5	-	-	-6.5		5538.0		+297	+589	1,460,389	771,925
164	336		48 40	-	5.0	TH	+1.7	-3.3		5541.2		+161	+288	1,460,253	771,624
165	0				5.1	-	-	-5.1		5539.4	π	0	0	1,460,092	771,336
166	330		254 -	+12.1	10.4	90° 30'	-2.9	-13.3		5531.2		-22	-329	1,460,070	771,006
+	901		263 06 06	-	8.9	90° 30'	-7.9	-16.8		5527.7		+82	-897	1,460,174	770,438
167	632		245 50	-	10.1	90° 30'	-5.5	-15.6		5528.9		-132	-618	1,459,960	770,718
168	960		243 15	-	7.5	90° 20'	-5.6	-13.1		5531.4		-243	-929	1,459,849	770,407
169	1260		250 10	-	5.0	90° 20'	-7.3	-12.3		5532.2		-170	-1249	1,459,923	770,087
170	1572		254 50	-	9.4	-	-	-9.4		5535.1		-84	-1570	1,460,008	769,766
171	1896		257 05	-	4.7	-	-	-4.7		5539.8		-27	-1896	1,460,065	769,440

#Fence
T19N R13E Sec. 30 131
Y - 1,460,200 X - 770,440
ON TRAIL

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE							
4-22-86		B. Cotcamp		R. Hulsey		6834		J.M. R.J.H		7		12							
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER					
ARIZONA		Meteor Crater - 7 1/2'		AZ.		COCONINO								S. Binns					
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				
									5544.5										
172	2222		258° 25'	+12.1	10.6	TH	+11.1	+0.5		5545.0		+ 20	- 2222	1,460,112	769,114				
173	2551		259° 15'	-	7.0	TH	+12.8	+5.8		5550.3		+ 60	- 2550	1,460,152	768,785				
174	2880		260° -	-	4.7	TH	+14.4	+9.7		5554.2		+ 106	- 2878	1,460,198	768,458				
175	3207		260° 41' 30"	+12.4	3.2	TH	+16.0	+12.8			TP	+ 173	- 3202	1,460,265	768,133				
175	3207				2.9	TH 270°	+16.0	+13.1	+13.03	5557.5	TP								
	3178		112° 03' 57"	-	+14.8	89° 37'	-21.3	-6.5	6.63	5550.9	BS	+1798	-2620						
	3178				+14.5	270° 23'	-21.3	-6.8			BS								
176	2878		114° 40'	-	12.3	89° 40'	+16.7	+4.4		5555.3		- 1735	+ 2296	1,460,329	767,810				
177	2563		117° 05'	-	11.3	89° 40'	+14.9	+3.6		5554.5		- 1630	+ 1978	1,460,434	767,491				
178	2248		119° 10'	-	8.6	89° 40'	+13.1	+4.5		5555.4		- 1492	+ 1682	1,460,572	767,195				
179	1926		119° 55'	+12.4	6.8	89° 40'	+11.2	+4.4		5555.3		- 1297	+ 1424	1,460,767	766,937				
180	1616		116° 20'	-	8.9	89° 40'	+9.4	+0.5		5551.4		- 1011	+ 1261	1,461,052	766,774				
181	1366		113° 56'	-	9.0	89° 50'	+3.8	-5.2		5545.7		- 774	+ 1052	1,461,290	766,565				
182	987		117° 40'	-	8.3	89° 50'	+2.9	-5.4		5545.5		- 635	+ 755	1,461,428	766,269				
183	659		118° 50'	-	7.3	89° 50'	+1.9	-5.4		5545.5		- 434	+ 496	1,461,629	766,009				
184	330		121° 35'	-	6.9	89° 50'	+1.0	-5.9		5545.0		- 229	+ 237	1,461,834	765,751				
185	0				5.1	-		-5.1		5545.8	A	0	0	1,462,084	765,513				
186	330		293° 05'	-	5.6	89° 50'	+1.0	-4.6		5546.3		+ 192	- 269	1,462,255	765,244				
187	660		293° 10'	-	5.8	89° 50'	+1.9	-3.9		5547.0		+ 384	- 537	1,462,447	764,976				
188	989		289° 20'	-	4.0	89° 50'	+2.9	-1.1		5549.8		+ 520	- 841	1,462,584	764,672				

SURVEY NOTES-HIGH RESOLUTION DATA
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Geosource Inc.

DATE 4-22-86	INSTRUMENT MAN B. Cotcamp	ROD MAN R. Hulsey	PARTY NUMBER 6834	NOTES CHECKED BY J.M. R.H.	LINE NO. 7	PAGE 13
AREA ARIZONA	TOPO MAP Meteor Crater - 7 1/2'	STATE AZ.	COUNTY COCONINO	TWP	RANGE	PPM
				PARTY MANAGER S. Binns		

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.	
									5550.9					
189	1315		289 -	+12.4	5.0	89 50	+3.8	-1.2		5549.7		+ 685	-1122	1,462,749 764,391
190	1645		288 10	-	8.0	89 40	+9.6	+1.6		5552.5		+ 837	-1416	1,462,900 764,097
191	1974		287 20	-	8.3	89 40	+11.5	+3.2		5554.1		+ 979	-1714	1,463,043 763,799
192	2301		287 -	-	9.6	89 40	+13.4	+3.8		5554.7		+1130	-2005	1,463,193 763,509
#	2393		296 34 30	-	11.6	89 40	+13.9	+2.3		5553.2	#	+1505	-1860	1,463,569 763,653
193	2629		286 40	-	14.9	89 40	+15.3	+0.4		5551.3		+1277	-2298	1,463,341 763,215
194	2959		286 11 15	-	14.8	89 44	+13.8	-1.0			TP	+1416	-2598	1,463,479 762,915
194	2959			-	14.5	270 16	+13.8	-0.7	0.83	5550.1	TP			
	2969		70 12 04	+12.4	14.9	89 35	-21.6	-6.7	6.83	5543.3	BS	-382	-2944	
	2969				14.6	270 25	-21.6	-7.0			BS			
195	2640		70 12	-	7.7	TH	+13.2	+5.5		5548.8		+340	+2618	1,463,437 762,589
196	2316		-	-	6.8	TH	+11.6	+4.8		5548.1		+298	+2291	1,463,395 762,262
197	1980		-	-	7.3	TH	+9.9	+2.6		5545.9		+255	+1964	1,463,352 761,934
198	1650		-	-	7.6	TH	+8.3	+0.7		5544.0		+213	+1636	1,463,310 761,607
199	1320		70 12	+12.4	7.0	TH	+6.6	-0.4		5542.9		+170	+1309	1,463,267 761,280
200	990		-	-	6.5	TH	+5.0	-1.5		5541.8		+128	+982	1,463,225 760,953
201	660		-	-	6.3	TH	+3.3	-3.0		5540.3		+85	+655	1,463,182 760,625
202	330		-	-	5.8	TH	+1.7	-4.1		5539.2		+43	+327	1,463,140 760,298
203	0				5.1	-		-5.1		5538.2	π	0	0	1,463,097 759,971

1/5-1463,600 X-763,635
TT WAY 5555.0

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4-22-86		B. C. Camp		R. Hulsey		6834		F.M., R.H.		7		14			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		Meteor Crater-7 1/2		AZ		Cochino								S. B. WMS	
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
									5543.3						
204	309		234 30'	+124	6.6	-	-6.6			5536.7		-121	-284	1,462,976	759,687
205	625		220 35'	-	8.3	-	-8.3			5535.0		-376	-499	1,462,721	759,472
206	955		219 20'	-	10.0	-	-10.0			5533.3		-591	-750	1,462,506	759,221
207	1284		218 20'	-	11.0	-	-11.0			5532.3		-813	-994	1,462,284	758,977
208	1612		217 40'	-	9.0	-	-9.0			5534.3		-1035	-1236	1,462,062	758,735
209	1941		216 25'	+124	6.0	-	-6.0			5537.3		-1278	-1461	1,461,819	758,510
210	2268		214 55'	-	13.8	TH	+11.3	-2.5		5540.8		-1538	-1667	1,461,560	758,304
211	2598		214 50'	-	13.0	TH	+13.0	0.0		5543.3		-1764	-1907	1,461,333	758,064
212	2913		217 -	-	11.0	TH	+14.6	+3.6		5546.9		-1896	-2212	1,461,261	757,759
213	3208		219 55'	-	12.8	TH	+16.0	+3.2		5546.5		-1961	-2539	1,461,136	757,432
214	3511		221 52 45	-	14.7	89 46	+14.3	-0.4			TP	-2050	-2850	1,461,047	757,120
214	3511				14.4	270 14	+14.3	-0.1	50.23	5543.1	TP				
	1543		59° 49 10'	+124	6.9	-	+6.9		5550.0		BS	-471	-1469		
	1543				6.8	270 -	+6.8				BS				
215	1216		60 20'	-	13.4	-	-13.4			5536.6		+361	+1161	1,460,937	756,812
216	897		61 50'	-	10.4	94 -	-62.4	-72.8		5477.2		+243	+861	1,460,819	756,512
217	572		64 40'	-	6.8	96 -	-59.5	-66.3		5483.7		+127	+554	1,460,703	756,205
218	246		61 10'	-	7.1	94 40	-19.9	-27.0		5523.0		+69	+235	1,460,645	755,886
κ	0				5.1	-	-5.1			5544.9	κ	0	0	1,460,576	755,651
219	102		196 50'	-	5.2	97 -	-12.3	-17.5		5532.5		-88	-49	1,460,488	755,602

1,461,080 X - 757,100
T - TRAIL SOUTH

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
4-22-86		B. Cotcamp		R. Hulsey		6834		J.M. RA.H		7	15					
AREA		TOPO MAP	STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
ARIZONA		Meteor Crater-7k'	AZ.	COCONINO					S. Binns							
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	
									5550.0							
220	402		233 15	+12.4	4.8	92 -	-14.0	-18.8		5531.2		-166	-366	1460.410	755.285	
221	707		241 10	-	14.6	90 12	-2.5	-17.1		5532.9		-260	-678	1460.376	754.973	
222	1026		241 20	-	10.2	90 12	-3.6	-13.8		5536.2		-287	-985	1460.289	754.666	
223	1323		235 15	-	8.2	89 30	+11.5	+3.3		5553.3		-503	-1224	1460.073	754.427	
224	1649		233 35	-	8.8	89 30	+14.4	+5.6		5555.6		-671	-1506	1459.905	754.145	
225	1979		233 20	+12.4	11.9	89 30	+17.3	+5.4		5555.4		-813	-1804	1459.763	753.847	
226	2309		233 40	-	9.7	89 30	+20.1	+10.4		5560.4		-937	-2110	1459.639	753.541	
227	2639		233 50	-	6.0	89 30	+23.0	+17.0		5567.0		-1063	-2415	1459.513	753.236	
228	2968		234 05	-	12.7	89 20	+34.5	+21.8		5571.8		-1184	-2721	1459.392	752.930	
229	3299		234 15	-	9.2	89 20	+38.4	+29.2		5579.2		-1307	-3029	1459.269	752.622	
230	3631		234 14 26	-	6.6	89 20	+42.2	+35.6			TP	-1440	-3333	1459.137	752.318	
230	3631			-	6.3	270 40	+42.2	+35.9	35.8	5585.8	TP					
	3301		54 57 52	+12.4	14.3	90 30	+28.8	+43.1	43.0		BS	-1270	-3047			
	3301			+14.0		269 30	+28.8	+42.8	42.8	56288	BS					
231	2970		54 58	-	11.1	90 32	-27.6	-38.7		5590.1		+1143	+2741	1459.009	752.012	
232	2640		-	-	10.8	90 30	-23.0	-33.8		5595.0		+1016	+2437	1458.882	751.708	
233	2310		-	-	10.0	90 30	-20.2	-30.2		5598.6		+889	+2132	1458.755	751.403	
234	1980		-	-	9.2	90 30	-17.3	-26.5		5602.3		+762	+1827	1458.628	751.099	
235	1650		-	-	8.3	90 30	-14.4	-22.7		5606.1		+635	+1523	1458.501	750.794	
236	1320		-	-	8.4	90 30	-11.5	-19.9		5608.9		+508	+1218	1458.374	750.490	

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4-22-86		B. Cotcamp		R. Hulsey		6834		F.M.		7		16			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		Meteor Crater 7 1/2		AZ.		COCONINO								S. Binns	
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
									5628.8						
237	990		54 58	+124	8.5	90 30	-8.6	-17.1		5611.7		+ 381	+ 914	1,458,247	750,185
238	660		--	-	8.1	90 30	-5.8	-13.9		5614.9		+ 254	+ 609	1,458,120	749,886
239	330		--	-	6.8	90 30	-2.9	-9.7		5619.1		+ 127	+ 305	1,457,993	749,576
240	0				5.1	-		-5.1		5623.7	TP	0	0	1,457,866	749,271
241	330		234 16	+124	7.0	89 16	+4.2	-2.8		5626.0		- 131	- 303	1,457,735	748,968
242	660		--	-	6.1	89 16	+8.4	+2.3		5631.1		- 261	- 606	1,457,605	748,665
243	990		--	-	7.8	89 16	+12.7	+4.9		5633.7		- 392	- 909	1,457,474	748,362
244	1320		--	-	10.3	89 16	+16.9	+6.6		5635.4		- 523	- 1212	1,457,343	748,059
245	1650		234 16	+124	11.9	89 16	+21.1	+9.2		5638.0		- 653	- 1515	1,457,213	747,756
246	1980		--	-	11.0	89 16	+25.3	+14.3		5643.1		- 784	- 1818	1,457,082	747,453
247	2310		--	-	10.0	89 16	+29.6	+19.6		5648.4		- 915	- 2121	1,456,951	747,150
248	2640		--	-	11.7	89 16	+33.8	+22.1		5650.9		- 1046	- 2424	1,456,821	746,847
249	2970		--	-	12.8	89 16	+38.0	+25.2		5654.0		- 1176	- 2727	1,456,690	746,544
250	3293		234 23 46	-	14.2	89 16	+42.1	+27.9			TP	- 1297	- 3026	1,456,569	746,245
250	3293				13.9	270 44	+42.1	+28.2	+28.15	5656.9	TP				
	2302		53 46 45	+124	14.4	90 30	+20.1	+34.5	+34.4	5691.3	BS	- 930	- 2106		
	2302				14.1	269 30	+20.1	+34.2			BS				
251	1980		53 47	-	12.0	90 30	-17.3	-29.3		5662.0		+ 800	+ 1811	1,456,439	745,950
252	1650		--	-	9.8	90 30	-14.4	-24.2		5667.1		+ 666	+ 1509	1,456,305	745,648
253	1320		--	-	8.3	90 30	-11.5	-19.8		5671.5		+ 533	+ 1208	1,456,172	745,347

Meteor Crater ↑
CHAVEZ Mtn. N.E. - 746

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4-22-86		B. C. Camp		R. Hulse		6834		J.M.		7		17			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		C. Chavez Mtn. N.E. 7 1/2'		AZ.		COCONINO								S. Binns	
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									5693.7						
254	990		53 47	+12.3	7.6	90 30	-8.6	-16.2		5677.5		+401	+905	1,456,040	745,044
255	660		- -	--	6.7	90 30	-5.8	-12.5		5681.2		+268	+603	1,455,907	744,742
256	330		- -	--	6.2	90 30	-2.9	-9.1		5684.6		+134	+302	1,455,773	744,441
257	0				5.1	-		-5.1		5688.6	TP	0	0	1,455,639	744,139
Bm	70		340 41 48	+12.3	5.1	90 30	-0.6	-5.7		5688.0	Bm	+69	-8	1,455,709	744,131
258	330		245 18	-	4.6	89 30	+2.9	-1.7		5692.0		-71	-322	1,455,568	743,817
259	660		- -	-	5.7	89 30	+5.8	+0.1		5693.8		-142	-645	1,455,497	743,494
260	990		- -	-	5.9	89 30	+8.6	+2.7		5696.4		-213	-967	1,455,426	743,172
261	1320		- -	-	5.7	89 30	+11.5	+5.8		5699.5		-283	-1289	1,455,356	742,850
262	1650		245 18	+12.3	5.0	89 30	+14.4	+9.4		5703.1		-354	-1611	1,455,285	742,528
263	1981		245 28	-	4.8	89 30	+17.3	+12.5		5706.2		-420	-1936	1,455,219	742,203
264	2310		245 32	-	10.8	89 20	+26.9	+16.1		5709.8		-487	-2258	1,455,152	741,881
265	2640		245 34	-	9.8	89 20	+30.7	+20.9		5714.6		-555	-2581	1,455,084	741,558
266	2970		- - -	-	9.7	89 20	+34.6	+24.9		5718.6		-624	-2903	1,455,015	741,236
267	3302		245 41 10	-	12.9	89 20	+38.4	+25.5			TP	-687	-3229	1,454,952	740,910
267	3302				12.6	270 40	+38.4	+25.8	+25.6	5719.3	TP				
	4276		63 33 -	+12.3	+14.2	90 40	+49.8	+64.0		5783.3	BS	-1045	-4146		
	4276				+14.1	269 20	+49.8	+63.9			BS				
268	3940		63 30	-	9.2	90 44	-50.4	-59.6		5723.7		+966	+3819	1,454,873	740,583
269	3610		63 24	-	7.2	90 44	-46.2	-53.4		5729.9		+892	+3498	1,454,798	740,261

~~1,455,700 X = 744,130~~
 U.S.G.S. 29425 EL. 5688.1
 1967 ELEV. CORR. @ THIS B.M.

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE 4-28-86	INSTRUMENT MAN B. Cotcamp	ROD MAN R. Hulsey	PARTY NUMBER 6834	NOTES CHECKED BY J.M.	LINE NO. 7	PAGE 18
AREA ARIZONA	TOPO MAP CHAVEZ Mtn. N.E. - 7 1/2'	STATE AZ.	COUNTY COCONINO	TWP	RANGE	PPM
				PARTY MANAGER S. Binns		

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			
									5783.3									
270	3280		63° 20'	+12.3	9.0	90° 44'	-42.0	-51.0		5732.3		+814	+3177	1,454,720	739,941			
271	2949		63° 15'	-	11.8	90° 44'	-37.7	-49.5		5733.8		+736	+2855	1,454,642	739,619			
272	2618		63° -	-	9.2	90° 50'	-38.1	-47.3		5736.0		+664	+2532	1,454,571	739,296			
Bm	2542		63° 56' 06"	-	9.1	90° 50'	-37.0	-46.1		5737.2	Bm	+605	+2469	1,454,511	739,232			1,454,440x-739,235 22 HWS 1967 EL. 5737
273	2303		61° 45'	-	9.4	90° 50'	-33.5	-42.9		5740.4		+633	+2214	1,454,539	738,978			
274	1973		- -	+12.3	10.3	90° 50'	-28.7	-39.0		5744.3		+542	+1897	1,454,449	738,660			
275	1644		62° 10'	-	11.7	90° 50'	-23.9	-35.6		5747.7		+440	+1584	1,454,347	738,347			
276	1315		62° 25'	-	8.7	90° 50'	-19.1	-27.8		5755.5		+347	+1268	1,454,253	738,032			
277	986		62° -	-	6.6	90° 50'	-14.3	-20.9		5762.4		+267	+949	1,454,173	737,713			
278	660		61° 10'	-	6.7	90° 50'	-9.6	-16.3		5767.0		+188	+633	1,454,094	737,396			CHAVEZ mtn. N.E. - 7 1/2'
279	330		- -	-	5.9	90° 50'	-4.8	-10.7		5772.6		+94	+316	1,454,000	737,080			CHAVEZ mtn. N.W. - 7 1/2'
280	0				5.1	-		-5.1		5778.2	T	0	0	1,453,906	736,764			
281	328		245° 10'	+12.3	5.5	89° -	+5.7	+0.2		5783.5		-71	-320	1,453,835	736,443			
282	656		243° 35'	-	7.6	89° -	+11.4	+3.8		5787.1		-160	-636	1,453,747	736,127			
283	986		243° 40'	-	8.8	89° -	+17.2	+8.4		5791.7		-239	-956	1,453,667	735,807			
284	1316		243° 30'	-	10.2	89° -	+23.0	+12.3		5795.6		-323	-1276	1,453,584	735,488			
285	1645		243° 50'	-	11.1	89° -	+28.7	+17.6		5800.9		-394	-1597	1,453,512	735,167			
286	1975		243° 30'	-	11.0	89° -	+34.5	+23.5		5806.8		-484	-1914	1,453,422	734,849			
287	2273		239° 52'	-	7.1	89° 10'	+33.1	+26.0		5809.3		-696	-2164	1,453,210	734,600			
288	2576		237° 10'	-	6.1	89° 10'	+37.5	+31.4		5814.7		-903	-2412	1,453,003	734,351			

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	4-28-86	INSTRUMENT MAN	B. Cotcamp	ROD MAN	R. Hulsey	PARTY NUMBER	6834	NOTES CHECKED BY	J.M.	LINE NO.	7	PAGE	19
AREA	ARIZONA	TOPO MAP	CHAVEZ Mtn. N.W. 7 1/2'	STATE	AZ.	COUNTY	COCONINO	TWP		RANGE	PPM	PARTY MANAGER	S. Binns

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS A TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS
												LAT.	DEP.	Y	X			
									5783.3									
289	2885		238 12	+123	10.8	89 -	+50.3	+39.5		5822.8		-963	-2719	1,452,944	734,044			
290	3216		238 10	-	12.0	89 -	+56.1	+44.1		5827.4		-1075	-3030	1,452,831	733,733			
TP	3448		238 05 27	-	14.6	89 04	+56.2	+41.6	441.7 1/2	5825.0	TP	-1157	-3248	1,452,749	733,516			
TP	3448				14.3	270 56	+56.2	+41.9			TP							
	716		76 34 22	+123	14.1	86 -	-49.9	-35.8	5789.2		BS	-14	-714					
	716				14.0	274 -	-49.9	-35.9			BS							
291	614		77 45	-	11.2	86 10	+41.0	+29.8		5819.0		-1	+613	1,452,735	733,414			
Bm	359		85 29 28	-	2.6	86 50	+19.8	+17.2		5806.4	Bm	-49	+355	1,452,687	733,157			y=1,452,635 x=733,185 21 hrs 1967 EL. 5806.
292	328		94 10	-	6.3	87 30	+14.3	+8.0		5797.2		-93	+314	1,452,643	733,116			
K	0				5.1	-		-5.1		5784.1	K	0	0	1,452,735	732,802			
293	42		8 10	+123	5.2	87 30	+1.8	-3.4		5785.8		+39	+15	1,452,775	732,817			
294	353		322 -	-	7.8	-		-7.8		5781.4		+318	-153	1,453,054	732,649			
295	683		326 45	-	10.4	BH	-3.4	-13.8		5775.4		+638	-244	1,453,373	732,558			
296	1005		322 30	-	14.1	BH	-5.0	-19.1		5770.1		+909	-428	1,453,645	732,374			
297	1112		305 55	-	11.1	BH	-5.6	-16.7		5772.5		+829	-741	1,453,565	732,061			
298	1441		306 55	+123	11.0	90 28	-11.7	-22.7		5766.5		+1091	-941	1,453,827	731,861			
299	1764		309 20	-	7.8	90 28	-14.4	-22.2		5767.0		+1383	-1095	1,454,118	731,707			
300	2086		311 05	-	10.7	90 10	-6.1	-16.8		5772.4		+1669	-1241	1,454,405	731,561			
301	2393		313 20	-	8.3	90 10	-7.0	-15.3		5773.9		+1975	-1351	1,454,711	731,451			
302	2688		316 20	-	9.2	90 10	-7.8	-17.0		5772.2		+2295	-1399	1,455,031	731,403			

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
4-28-86		B. GtCamp		R. Hulsey		6834		J.M.		7		20				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
ARIZONA		CHAVEZ Mtn. N.W-7 1/2'		AZ.		COCONINO								S. Binns		
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
									5789.2							
303	2997		316 15'	+123	12.4	-		-12.4		5776.8		+ 2557	-1564	1,455,292	731,238	
304	3244		312 -	-	9.7	TH	+16.2	+6.5		5795.7		+ 2634	- 1893	1,455,369	730,909	304
305	3235		308 10'	-	11.1	89° 20'	+37.6	+26.5		5815.7		+ 2495	-2059	1,455,230	730,743	
306	3280		303 10'	-	10.9	89 -	+57.2	+46.3		5835.5		+ 2338	-2300	1,455,073	730,502	
307	3258		297 35'	-	9.8	88 38'	+77.7	+67.9		5857.1		+ 2089	-2499	1,454,824	730,303	
308	3373		292 51'	-	11.9	88 20'	+98.1	+86.2		5875.4		+ 1941	- 2757	1,454,676	730,045	
309	3679		291 02 15	-	14.1	88 16'	+111.3	+97.2		5886.4	TP	+2021	-3072	1,454,756	729,730	
309	3679				14.0	271 44'	+111.3	+97.3			TP					
	1935		91 24 24	+123	13.9	91 12'	+40.5	+54.4	54.3	5946.7	BS	+458	-1879			
	1935				13.6	268 48'	+40.5	+54.1			BS					
310	1627		87 26'	-	12.0	91 17'	-36.4	-48.4		5892.3		- 275	+ 1603	1,454,940	729,453	
311	1315		83 30'	-	12.1	91 20'	-30.6	-42.7		5898.0		- 133	+ 1308	1,455,082	729,158	
312	989		82 10'	-	12.4	91 -	-17.3	-29.7		5911.0		- 77	+ 986	1,455,138	728,836	
313	666		85 -	-	7.9	91 -	-11.6	-19.5		5921.2		- 85	+ 661	1,455,130	728,511	
#	526		87 36 04	-	7.6	91 -	-9.2	-16.8		5923.9	#	-90	+518	1,455,124	728,368	y-1,455,080x-728,400 # FENCELINE
314	335		87 10'	-	6.2	91 -	-5.8	-12.0		5928.7		- 55	+ 330	1,455,160	728,181	
315	54		11 15	-	5.4	91 -	-0.9	-6.3		5934.4		+ 49	+ 22	1,455,264	727,872	
K	0				5.1	-		-5.1		5935.6	K	0	0	1,455,215	727,850	
316	309		277 50'	+123	6.3	89 -	+5.4	-0.9		5939.8		+ 106	-290	1,455,321	727,560	
317	635		267 50'	-	6.0	89 -	+11.1	+5.1		5945.8		+ 112	-625	1,455,327	727,225	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4-28-86		B. Cotcamp				6834		F.M.		7		21			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		CHAVEZ Mtn. N.W. 76'		AZ.		COCONINO								S. Binns	
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
									5940.7						
318	962		266° 05'	+12.3	6.2	89° -	+16.8	+10.6		5951.3		+140	-952	1,455,355	726,899
319	1288		264° 55'	-	6.4	89° -	+22.5	+16.1		5956.8		+162	-1278	1,455,377	726,573
320	1618		264° 30'	-	7.1	89° -	+28.2	+21.1		5961.8		+192	-1606	1,455,406	726,244
321	1949		264° -	-	9.1	89° -	+34.0	+24.9		5965.6		+214	-1937	1,455,429	725,913
322	2277		263° -	-	10.2	89° -	+39.7	+29.5		5970.2		+210	-2267	1,455,425	725,583
323	2607		262° 50'	-	11.9	89° 02'	+44.0	+32.1		5972.8		+233	-2596	1,455,448	725,254
Bm	2779		264° 08' 13"	-	12.2	89° 02'	+46.9	+34.7		5975.4	Bm	+312	-2761	1,455,526	725,089
324	2935		262° 49' 33"	-	14.8	89° -	+51.2	+36.4			TP	+262	-2922	1,455,477	724,927
324	2935				14.5	271° -	+51.2	+36.7		5977.3	TP				
	2543		65° 41' 40"	+12.3	14.2	90° 42'	+31.1	+45.3	45.2	6022.5	BS	-529	-2487		
	2543				13.9	269° 18'	+31.1	+45.0			BS				
325	2221		63° 46'	-	9.0	90° 50'	-32.3	-41.3		5981.2		+539	+2154	1,455,487	724,595
326	1932		59° 10'	-	9.1	90° 50'	-28.1	-37.2		5985.3		+614	+1832	1,455,562	724,272
327	1629		55° 10'	-	9.1	90° 50'	-23.7	-32.8		5989.7		+624	+1504	1,455,572	723,945
328	1309		52° 20'	-	9.2	90° 50'	-19.0	-28.2		5994.3		+561	+1183	1,455,509	723,623
329	987		48° 50'	-	9.3	90° 50'	-14.4	-23.7		5998.8		+476	+864	1,455,425	723,304
330	660		47° 30'	+12.3	7.9	90° 50'	-9.6	-17.5		6005.0		+332	+570	1,455,280	723,011
331	330		-	-	6.8	90° 50'	-4.8	-11.6		6010.9		+166	+285	1,455,114	722,725
332	0				5.1	-		-5.1		6017.4	TP	0	0	1,454,948	722,440
333	330		230° 20'	-	7.0	88° 40'	+7.7	+0.7		6023.2		-152	-293	1,454,796	722,147

y = 1,455,495 x = 725,125
194051967 EL. 5976.

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE	4-28-86	INSTRUMENT MAN	B. Cotcamp	ROD MAN	J. Middleton	PARTY NUMBER	6834	NOTES CHECKED BY	J. M.	LINE NO.	7	PAGE	22	
AREA	ARIZONA	TOPO MAP	CHAVEZ Mtn. N.W.-76	STATE	AZ.	COUNTY	COCONINO	TWP		RANGE		PPM	PARTY MANAGER	S. Biens

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				
									6022.5										
334	660		231° 05'	+123	8.3	88° 40'	+15.4	+7.1		6029.6		-296	-590	1,454,652	721,850				
335	990		232° 10'	-	9.0	88° 40'	+23.0	+14.0		6036.5		-427	-893	1,454,521	721,547				
336	1320		233° 20'	-	10.2	88° 40'	+30.7	+20.5		6043.0		-544	-1202	1,454,404	721,238				
337	1648		233° 50'	-	4.0	89° -	+28.8	+24.8		6047.3		-667	-1507	1,454,281	720,933				
338	1973		235° 40'	+123	6.0	89° -	+34.4	+28.4		6050.9		-740	-1829	1,454,208	720,612				
339	2303		236° 40'	-	8.0	89° -	+40.2	+32.2		6054.7		-826	-2149	1,454,122	720,291				
340	2632		236° 55'	-	10.7	89° -	+45.9	+35.2		6057.7		-934	-2460	1,454,014	719,980				
B.M.	2714		232° 42' 39"	-	14.6	88° 54'	+52.1	+37.5		6060.0	B.M.	-1146	-2459	1,453,802	719,981			U.S.G.S. 18 HAS 1967 EL. 6661.0	
341	2960		237° 05' 24"	-	13.6	89° -	+51.7	+38.1	+38.23	6060.7	TP	-1042	-2770	1,453,906	719,670				
341	2960				13.3	271° -	+51.7	+38.4			TP								
	1971		61° 26' 13"	+123	13.8	B.M.	+9.9	+23.7	6084.4		BS	-552	-1892						
	1971				+13.7	B.M. 270	+9.9	+23.6			BS								
342	1641		62° 26'	-	22.0	89° 58'	+1.0	-21.0		6063.4		+432	+1583	1,453,786	719,361				
343	1314		62° 30'	-	18.9	-		-18.9		6065.5		+345	+1268	1,453,699	719,046				
344	985		64° 30'	-	11.7	B.H.	-4.9	-16.6		6067.8		+225	+959	1,453,579	718,737				
345	655		65° 40'	-	11.1	-		-11.1		6073.3		+137	+641	1,453,491	718,418				
346	326		66° 05'	-	8.3	-		-8.3		6076.1		+66	+319	1,453,420	718,097				
347	0				5.1	-		-5.1		6079.3	TP	0	0	1,453,354	717,778				
348	332		245° 20'	+123	3.0	89° 32'	+2.7	-0.3		6084.1		-71	-324	1,453,283	717,454				
349	657		248° 40'	-	5.0	89° 20'	+7.6	+2.6		6087.0		-103	-649	1,453,251	717,129				

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAKE		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4-28-86		B. Cotcamp		J. Middleton		6834		J.M.		7		23			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		CHAVEZ Mtn. NW-76		AZ.		COCONINO								S. Binns	
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
									6084.4						
350	986		249 -	+12.3	6.5	89 20	+11.5	+5.0		6089.4		-149	-975	1,453,205	716,803
351	1316		248° 55' 33	-	6.7	89 28	+12.3	+5.6		6090.0	TP	-201	-1301	1,453,154	716,477
351	1316				6.6	270 32	+12.3	+5.7			TP				
	2289		57 00 53	-	12.4	BH	+11.4	+23.8	237.61137		BS	-809	-2141		
	2289				12.1	BH 20	+11.4	+23.5			BS				
352	1971		54 20	+12.3	10.8	90 20	-11.5	-22.3		6091.4		+782	+1809	1,453,127	716,145
353	1644		53 40	-	11.7	90 20	-9.6	-21.3		6092.4		+670	+1501	1,453,015	715,837
354	1314		53 25	-	10.1	90 20	-7.6	-17.7		6096.0		+540	+1198	1,452,885	715,534
355	984		- -	-	8.9	90 20	-5.7	-14.6		6099.1		+405	+897	1,452,750	715,233
Bm	693		66 03 54	-	5.7	90 20	-4.0	-9.7		6104.0	Bm	+140	+679	1,452,485	715,015
356	655		53 20	-	8.1	90 20	-3.8	-11.9		6101.8		+270	+597	1,452,615	714,933
357	328		54 20	-	7.0	90 20	-1.9	-8.9		6104.8		+130	+301	1,452,475	714,637
358	0				5.1	-		-5.1		6108.6	X	0	0	1,452,345	714,336
359	330		230 50	+12.3	7.2	89 -	+5.8	-1.4		6112.3		-149	-294	1,452,196	714,042
360	660		231 40	-	8.4	89 -	+11.5	+3.1		6116.8		-290	-593	1,452,055	713,743
361	977		236 45	-	10.7	89 -	+17.1	+6.4		6120.1		-350	-914	1,451,995	713,422
362	1298		240 50	-	11.9	89 -	+22.6	+10.7		6124.4		-377	-1242	1,451,968	713,094
363	1611		241 -	-	10.3	89 10	+23.4	+13.1		6126.8		-463	-1543	1,451,882	712,793
364	1939		239 10	-	10.9	89 10	+28.2	+17.3		6131.0		-616	-1838	1,451,729	712,498
365															

1,452,485 x - 715,070
17415 1967 61040

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 4-28-86	INSTRUMENT MAN B. Cotcamp	ROD MAN R. Hulsey	PARTY NUMBER 6834	NOTES CHECKED BY J.M.	LINE NO. 7	PAGE 24
AREA ARIZONA	TOPO MAP CHAVEZ Mtn. N.W.-7 1/2'	STATE AZ.	COUNTY COCONINO	TWP	RANGE	PPM
				PARTY MANAGER S. BINNS		

STATION NO. 365	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
									6113.7						
TP	2233		239 12 16	+124	13.5	89 10	+32.5	+19.0	6113.7	6132.8	TP	-705	-2119	1,451,640	712,217
TP	2233				13.2	270 50	+32.5	+19.3			TP				
	2607		61 04 46	-	+14.1	BH	+13.0	+27.1			BS	-741	-2499		
	2607				+13.8	BH 20	+13.0	+26.8	6199.7	6199.7	BS				
365	2583		59 24	-	11.4	90 24	-18.0	-29.4		6130.3		+807	+2454	1,451,706	712,172
366	2271		57 05	+124	8.8	90 30	-19.8	-28.6		6131.1		+796	+2127	1,451,695	711,845
367	1950		55 10	-	7.4	90 30	-17.0	-24.4		6135.3		+744	+1802	1,451,643	711,520
368	1621		54 45	-	8.2	90 30	-14.1	-22.3		6137.4		+629	+1494	1,451,529	711,212
369	1295		54 20	-	8.0	90 30	-11.3	-19.3		6140.4		+512	+1190	1,451,411	710,907
370	965		54 50	-	8.1	90 30	-8.4	-16.5		6143.2		+373	+890	1,451,273	710,608
371	650		62 20	-	6.0	90 30	-5.7	-11.7		6148.0		+171	+627	1,451,070	710,345
372	327		69 10	-	5.4	90 30	-2.9	-8.3		6151.4		+48	+323	1,450,947	710,041
Bm	80		100 16 18	-	4.0	90 30	-0.7	-4.7		6155.0	Bm	-31	+74	1,450,868	709,792
373	0				5.1	-		-5.1		6154.6	X	0	0	1,450,899	709,718
374	329		237 15	+124	7.7	89 -	+5.7	-2.0		6157.7		-114	-308	1,450,785	709,409
375	652		242 -	-	10.3	89 -	+11.4	+1.1		6160.8		-175	-628	1,450,724	709,090
376	954		234 05	-	10.3	89 -	+16.6	+6.3		6166.0		-381	-875	1,450,518	708,843
377	1246		225 30	-	8.9	89 -	+21.7	+12.8		6172.5		-662	-1055	1,450,237	708,662
378	1551		220 40	-	8.0	89 -	+27.1	+19.1		6178.8		-932	-1240	1,449,967	708,478
379	1860		216 37	-	5.8	89 -	+32.5	+26.7		6186.4		-1220	-1404	1,449,679	708,314

1,450,820 x - 709,800
16 1/2 1967 EL. 6155.

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4-28-86		B. Cotcamp		J. Middleton		6834		R.L.H		7		25			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		CHAVEZ mtn. N.W. 1/4		AZ.		COCONINO								S. Binns	
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
									6159.7						
380	2175		214 -	+12.4	4.3	89 -	+38.0	+33.7		6193.4		-1500	-1575	1,449,399	708,143
381	2493		211 52'	-	9.8	88 50	+50.7	+40.9		6200.6		-1785	-1740	1,449,114	707,978
382	2816		210 11 45	-	14.9	88 42	+63.9	+49.0	49.13	6208.8	TP	-2072	-1905	1,448,827	707,812
382	2816				14.6	271 18	+63.9	+49.3			TP				
	973		28 29 -	-	+4.6	91 -	+17.0	+21.6			BS	-736	-637		
	973				+4.5	269 -	+17.0	+21.5		6230.3	BS				
383	645		28 20	-	4.6	91 -	-11.3	-15.9		6214.4		+489	+421	1,448,580	707,597
384	316		35 -	-	4.5	91 -	-5.5	-10.0		6220.3		+214	+233	1,448,305	707,409
385	23		18 30	-	6.1	89 -	+0.4	-5.7		6224.6		+20	+12	1,448,111	707,188
Σ	0				5.1	-		-5.1		6225.2	Σ	0	0	1,448,091	707,176
386	315		260 30,	+12.4	6.1	89 26	+3.1	-3.0		6227.3		+16	-315	1,448,107	706,861
TP	522		261 10 15	-	5.9	89 40	+3.0	-2.9		6227.4	TP	+33	-521	1,448,124	706,655
TP	522				5.8	270 20	+3.0	-2.8			TP				
	354		82 39 52	-	+11.0	88 12	-11.1	-0.1		6227.3	BS	+31	-352		
	354				11.0	271 48	-11.1	-0.1			BS				
387	237		85 20,	-	12.4	87 02	+12.2	-0.2		6227.1		-32	+235	1,448,123	706,537
Bm	156		72 11 12	-	4.7	89 -	+2.7	-2.0		6225.3	Bm	+15	+155	1,448,170	706,458
Σ	0				5.1	-		-5.1		6222.2	Σ	0	0	1,448,155	706,302
388	93		253 45,	-	6.2	89 -	+1.6	-4.6		6222.7		-6	-93	1,448,149	706,209
389	409		248 05	-	11.5	88 12	+12.8	+1.3		6228.6		-68	-403	1,448,087	705,899

1,448,150 x = 706,480
1,448,1967 EL. 6225.0

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAKE		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4-28-86		B Cotcamp		J. Middleton		6834		R.J.H		7		26			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		CHAVEZ Mtn. N.W-7 1/2		AZ.		COCONINO								S. Binns	
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
									6227.3						
TP	542		247 57 16	+124	14.7	87 54	+19.9	+5.2		6232.5	TP	-91	-534	1,448,064	705,768
TP	542				14.6	272 06	+19.9	+5.3			TP				
	389		80 20 42	-	+1.6	92 10	+14.7	+16.3	6248.8		BS	+19	-388		
	389				+2.7	92 -	+13.6	+16.3			BS				
390	190		67 40	-	4.0	92 08	-7.1	-11.1		6237.7		+33	+187	1,448,116	705,567
K	0				5.1	-		-5.1		6243.7	K	0	0	1,448,083	705,380
391	99		255 40	-	5.1	88 10	+3.2	-1.9		6246.9		-3	-99	1,448,080	705,281
392	419		231 20	-	5.0	89 10	+6.1	+1.1		6249.9		-185	-376	1,447,897	705,004
TP	606		230 51 12	-	2.0	89 21	+6.9	+4.9		6253.7	TP	-273	-541	1,447,810	704,839
TP	606				2.0	270 39	+6.9	+4.9			TP				
	833		34 11 28	+124	3.5	90 42	+10.2	+13.7			BS	-572	-605		
	833				+3.4	269 18	+10.8	+13.6	6267.3		BS				
393	694		33 34	-	6.3	90 28	-5.7	-12.0		6255.3		+482	+499	1,447,720	704,733
394	365		35 15	-	6.0	90 28	-3.0	-9.0		6258.3		+246	+270	1,447,484	704,503
395	40		50 20	-	4.8	90 28	-0.3	-5.1		6262.2		+18	+36	1,447,256	704,269
K	0				5.1	-		-5.1		6262.2	K	0	0	1,447,238	704,234
396	281		211 55	+124	6.0	88 46	+6.0	0.0		6267.3		-201	-196	1,447,037	704,037
397	610		213 10	-	6.4	89 -	+10.6	+4.2		6271.5		-427	-436	1,446,811	703,798
TP	781		212 06 18	-	14.6	88 26	+21.4	+6.8		6274.1	TP	-557	-547	1,446,681	703,686
TP	781				14.5	271 34	+21.4	+6.9			TP				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	4-28-86	INSTRUMENT MAN	B. Cotcamp	ROD MAN	J. Middleton	PARTY NUMBER	6834	NOTES CHECKED BY	R. H.	LINE NO.	7	PAGE	27	
AREA	ARIZONA	TOPO MAP	CHAVEZ Mtn. N.W. - 7 1/2'	STATE	AZ.	COUNTY	COCONINO	TWP		RANGE		PPM	PARTY MANAGER	S. Binns

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH - LAT.	EAST + WEST - DEP.	COORDINATES		REMARKS
														Y	X	
										6274.1						
	494		44° 53' 18"	+124	7.9	BH	+2.5	+10.4			BS	-267	-416			
	494				7.8	BH 270	+2.5	+10.3	6284.4		BS					
398	330		45° -	-	6.2	96° 10'	-1.0	-7.2		6277.2		+178	+278	1,446,592	703,549	
399	35		131° 10'	-	5.0	87° 40'	+1.4	-3.6		6280.8		-28	+21	1,446,386	703,292	
π	0				5.1	-		-5.1		6279.3	π	0	0	1,446,414	703,271	
400	323		222° 55'	+124	6.4	88° 40'	+7.5	+1.1		6285.5		-184	-266	1,446,230	703,005	
401	653		224° 20'	-	6.5	89° -	+11.4	+4.9		6289.3		-358	-546	1,446,056	702,725	
TP	970		223° 50' 26"	-	8.8	89° -	+16.9	+8.1		6292.5	TP	-539	-806	1,445,875	702,465	
TP	970				8.7	271° -	+16.9	+8.2			TP					
	549		48° 43' 53"	+124	9.6	-		+9.6	6302.1		BS	-265	-481			
	549				6.9	BH.	+2.7	+9.6			BS					
402	549		41° 55'	-	11.4	89° 44'	+2.6	-8.8		6293.3		+320	+446	1,445,930	702,430	
403	218		41° 15'	-	7.2	89° 44'	+1.0	-6.2		6295.9		+129	+176	1,445,739	702,160	
π	0				5.1	-		-5.1		6297.0	π	0	0	1,445,610	701,984	
#	35		318° 05' 15"	-	6.4	87° 20'	+1.6	-4.8		6297.3	#	+30	-17	1,445,640	701,967	# fence line
404	135		265° 25'	-	6.0	88° 40'	+3.1	-2.9		6299.2		+18	-134	1,445,628	701,850	
405	454		259° 50'	-	8.0	88° 50'	+9.2	+1.2		6303.3		+18	-454	1,445,628	701,530	
406	780		253° -	-	23.0	87° 59'	+27.4	+4.4		6306.5		-63	-777	1,445,547	701,207	
407	1105		250° 25'	-	9.5	89° 10'	+16.1	+6.6		6308.7		-138	-1096	1,445,472	700,888	

y = 1,445,610 x - 702,000
fence line

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4-28-86		B. Cotamp		R. Hulsey		6834		R.Y.H		7		28			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		CHAVEZ Mtn. N.W-7E		AZ.		COCONINO								S. Binns	
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
									6302.1						
408	1396		244° 57'	+124	10.3	89° 10'	+20.3	+10.0		6312.1		-306	-1362	1,445,304	700,622
409	1694		239° 20'	-	20.8	88° 46'	+36.5	+15.7		6317.8		-531	-1608	1,445,079	700,375
TP	1972		241° 13' 28"	-	12.5	89° -	+34.4	+21.9	+22.0 1/2	6324.1	TP	-556	-1892	1,445,054	700,092
TP	1972				12.2	271° -	+34.4	+22.2			TP				
	2160		42° 06' 16"	+124	9.8	91° -	+37.7	+47.5	+47.4 1/2	6371.5	BS	-1254	-1758		
	2160				+9.5	269° -	+37.7	+47.2			BS				
410	2083		45° -	-	6.7	91° 06'	-40.0	-46.7		6324.8		+1122	+1755	1,444,922	700,088
411	1756		45° 50'	-	18.5	90° 40'	-20.4	-38.9		6332.6		+924	+1493	1,444,742	699,827
412	1427		47° 05'	-	8.1	91° -	-24.9	-33.0		6338.5		+725	+1229	1,444,524	699,563
413	1101		49° 10'	-	6.3	91° -	-19.2	-25.5		6346.0		+524	+968	1,444,324	699,302
414	773		47° 40'	+124	5.9	91° -	-13.5	-19.4		6352.1		+386	+670	1,444,186	699,004
415	444		46° 30'	-	6.2	91° -	-7.7	-13.9		6357.6		+229	+380	1,444,029	698,714
416	114		46° 50'	-	5.7	91° -	-2.0	-7.7		6363.8		+58	+98	1,443,858	698,432
Σ	0				5.1	-	-	-5.1		6366.4	Σ	0	0	1,443,800	698,334
417	210		243° 50'	-	5.0	88° 30'	+5.5	+0.5		6372.0		-50	-204	1,443,750	698,130
418	517		237° 28' 40"	-	2.5	88° 30'	+13.5	+11.0		6382.5	TP	-178	-485	1,443,622	697,848
418	517				2.4	271° 30'	+13.5	+11.1			TP				
	568		17° 02' 22"	-	8.2	-		+8.2		6390.7	BS	-495	-279		
	568				+8.1	270° -		+8.1			BS				

CHAVEZ Mtn. N.W-7E
Kinnikinick Lake-7E

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE						
4-29-86		B. Cotcamp		R. Hulseay		6834		BC		7		30						
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER				
ARIZONA		Kinnickinick Lake-7 1/2		AZ.		Cochise								S. Binns				
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			
										6407.1								
	1094		92 38 09	+12.4	13.2	91 -	+19.1	+32.3			BS	+284	-1056					
	1094				+13.1	269 -	+19.1	+32.2	6439.3		BS							
424	1021		91 10	-	5.4	91 30	-26.7	-32.1		6407.2		-240	+993	1,443,037	696,476			
425	696		91 40	-	5.9	91 30	-18.2	-24.1		6415.2		-169	+675	1,443,108	696,158			
426	366		92 10	-	4.8	91 30	-9.6	-14.4		6424.9		-92	+354	1,443,185	695,837			
427	39		61 45	-	5.2	87 30	+1.7	-3.5		6435.8		+11	+38	1,443,288	695,521			
π	0				5.1	-		-5.1		6434.2	π	0	0	1,443,277	695,483			
428	298		280 20	+124	5.2	88 30	+7.8	+2.6		6441.9		+115	-275	1,443,392	695,208			
429	628		277 40	-	10.8	88 30	+16.4	+5.6		6444.9		+215	-590	1,443,492	694,893			
TP	739		277 22 36	-	7.1	89 -	+12.9	+5.8		6445.1	TP	+250	-695	1,443,527	694,788			
TP	739				7.0	271 -	+12.9	+5.9			TP							
	928		129 13 12	+124	12.9	BH	+4.6	+17.5			BS	+727	-576					
	928				+12.8	BH 276	+4.6	+17.4	6462.5		BS							
430	705		129 46	-	10.3	90 30	-6.2	-16.5		6446.0		-556	+433	1,443,698	694,645			
431	376		127 50	-	5.8	90 30	-3.3	-9.1		6453.4		-289	+241	1,443,965	694,453			
432	49		140 10	-	5.8	90 30	-0.4	-6.2		6456.3		-43	+23	1,444,211	694,235			
π	0				5.1	-		-5.1		6457.4	π	0	0	1,444,254	694,212			
433	296		273 30	-	9.7	91 30	-7.7	-17.4		6445.1		+81	-285	1,444,335	693,927			
TP	396		274 04 50	-	10.4	91 30	-10.4	-20.8		6441.7	TP	+112	-380	1,444,366	693,832			
TP	396				10.3	268 30	-10.4	-20.7			TP							

SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
4-29-86		B. Cotcamp		R. Hulsey		6834		B.C.		7		31				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
ARIZONA		Kinnikinick Lake-7 1/2		AZ.		COCONINO								S. DIMMS		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	NORTH + SOUTH - LAT.	EAST + WEST - DEP.	COORDINATES Y X		REMARKS
										6441.7						
	1315		27 41 21	+12.7	14.8	92 -	+45.9	+60.7			BS	-1001	-852			
	1315				14.7	268 -	+45.9	+60.6	6502.3		BS					
	1286		28 08 22	-	10.7	92 10	-48.6	-59.3		6443.0		+972	+840	1,444,337	693,820	Y - intersect 644.
# 434	1054		27 48	-	7.3	92 20	-42.9	-50.2		6452.1	#	+801	+684	1,444,166	693,664	5 - 1,444,180 X - 693,670 # CREEK CROSSING
435	724		- -	-	8.7	92 20	-29.5	-38.2		6464.1		+551	+470	1,443,916	693,450	
436	393		- -	-	7.5	92 20	-16.0	-23.5		6478.8		+299	+255	1,443,664	693,235	
437	62		33 20	-	5.7	92 20	-2.5	-8.2		6494.1		+43	+45	1,443,408	693,025	
	0		-		5.1	-		-5.1		6497.2	TP	0	0	1,443,365	692,980	
438	281		160 -	+12.7	8.0	88 40	+6.5	-1.5		6500.8		-279	+36	1,443,086	693,016	
TP	517		158 35 18	-	5.8	88 -	+18.0	+12.2		6514.5	TP	-511	+78	1,442,854	693,058	
TP	517				5.7	272 -	+18.0	+12.3			TP					
	882		2 00 22	-	11.3	92 -	+30.8	+42.1			BS	-853	-224			
	882				11.2	268 -	+30.8	+42.0	6556.5		BS					
439	789		1 20	-	9.1	92 -	-27.5	-36.6		6519.9		+765	+191	1,442,766	693,025	
440	459		- -	-	5.2	92 -	-16.0	-21.2		6535.3		+445	+111	1,442,446	692,945	
441	128		3 -	-	4.7	91 -	-2.2	-6.9		6549.6		+123	+35	1,442,124	692,869	
	0				5.1	-		-5.1		6551.4	TP	0	0	1,442,001	692,834	
442	214		230 40	+12.7	6.6	86 30	+13.0	+6.4		6562.9		-96	-191	1,441,925	692,643	
443	544		233 20	-	5.9	86 30	+33.1	+27.2		6583.7		-221	-497	1,441,780	692,337	

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
4-29-86		B. Cotcamp		R. Hulsey		6834		BC		7		32			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		Kinnikinnick Lake-7 1/2		AZ.		COCONINO								S. B. WINS	
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
									6556.5						
TP	612	610.9	232 21 03	+12.7	1.8	86 30	+37.4	+35.6		6592.1	TP	-258	-554	1,441,743	692,280
TP	612				1.7	273 30	+37.4	+35.7			TP				
	603	602.2	357 00 18	-	+2.9	93 -	+31.6	+34.5			BS	-594	-102		
	603				+2.8	267 -	+31.6	+34.4	6626.5		BS				
444	330		354 30	-	6.4	93 -	-17.2	-23.6		6602.9		+327	+41	1,441,426	692,219
445	0				5.1	-		-5.1		6621.4	X	0	0	1,441,149	692,178
446	329		170 35	-	7.5	86 -	+22.9	+15.4		6641.9		-328	-19	1,440,821	692,159
TP	280	277.9	172 36 15	-	13.4	83 -	+34.1	+20.7		6647.2	TP	-277	-26	1,440,872	692,152
TP	280				13.4	277 -	+34.1	+20.7			TP				
	577		16 28 04	+12.7	+14.7	91 50	+18.5	+33.2			BS	-504	-281		
	577				+14.6	268 10	+18.5	+33.1	6680.3		BS				
447	212		14 05	-	10.4	92 10	-8.0	-18.4		6661.9		+189	+96	1,440,557	691,967
X	0				5.1	-		-5.1		6675.2	X	0	0	1,440,368	691,871
448	116		199 50	-	6.0	86 30	+7.1	+1.1		6681.4		-98	-62	1,440,270	691,809
TP	291	289.3	195 10 40	-	12.8	83 50	+31.3	+18.5		6698.8	TP	-256	-135	1,440,112	691,736
TP	291				12.8	276 10	+31.3	+18.5			TP				
	549	548.0	22 53 42	+13.0	+5.0	93 30	+33.5	+38.5			BS	-444	-321		
	549				+4.9	266 30	+33.5	+38.4	6737.2		BS				
449	476		9 15	-	9.7	93 -	-24.9	-34.6		6702.6		+441	+180	1,440,109	691,595
450	192		347 30	-	5.9	93 -	-10.0	-15.9		6721.3		+192	+2	1,439,860	691,412

SURVEY NOTES-HIGH RESOLUTION DATA
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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE					
4-29-86		B. Cotcamp		R. Hulsey		6834		TRH BC		7		33					
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER			
ARIZONA		Kinnikinick Lake-74		AZ.		COCONINO								S. B. NNS			
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH - LAT.	EAST + WEST - DEP.	COORDINATES		REMARKS	
														Y	X		
									6737.2								
K	0				5.1	-		-5.1		6732.1	K	0	0	1,439,668	691,415		
451	145		193 10	+130	5.9	86 -	+10.1	+4.2		6741.4		-130	-64	1,439,538	691,351		
TP	270		194 29 15	-	8.7	86 -	+18.8	+10.1		6747.3	TP	-239	-124	1,439,429	691,291		
TP	270				8.7	274 -	+18.8	+10.1			TP						
	770	768.6	43 18 04	-	6.7	93 30	+47.0	+53.7	6801.0		BS	-426	-639				
	770				6.7	266 30	+47.0	+53.7			BS						
452	563		44 10	-	8.2	93 30	-34.4	-42.6		6758.4		+305	+473	1,439,308	691,125		
453	233		44 20	-	7.9	93 30	-14.2	-22.1		6778.9		+126	+196	1,439,129	690,848		
K	0				5.1	-		-5.1		6795.9	K	0	0	1,439,003	690,652		
454	90		210 10	+130	6.1	85 10	+7.6	+1.5		6802.5		-66	-62	1,438,937	690,590		
455	409		199 20	-	6.6	86 50	+22.6	+16.0		6817.0		-346	-219	1,438,657	690,433		
456	739		199 45	-	4.0	86 50	+40.8	+36.8		6837.8		-622	-400	1,438,381	690,252		
TP	809	807.8	199 06 46	-	6.9	86 50	+44.7	+37.8		6838.8	TP	-684	-429	1,438,319	690,223	#	
TP	809				6.8	273 10	+44.7	+37.9			TP						
	635	633.5	34 24 21	+130	4.7	94 -	+44.3	+49.0			BS	-429	-466				
	635				4.6	266 -	+44.3	+48.9	6887.7		BS						
457	370		35 20	-	5.6	93 40	-23.7	-29.3		6858.4		+246	+276	1,438,136	690,033		
458	47		19 -	-	4.9	93 40	-3.0	-7.9		6879.8		+40	+25	1,437,930	689,782		
K	0				5.1	-		-5.1		6882.6	K	0	0	1,437,890	689,757		
459	288		225 05	-	6.6	86 -	+20.1	+13.5		6901.2		-152	-244	1,437,238	689,513		

SURVEY NOTES-HIGH RESOLUTION DATA
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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
4-29-86		B. Cotcamp		R. Hulsey		6834		B.C.		7		34				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
ARIZONA		Kinnikinick Lake-7 1/2'		AZ.		COCONINO								S. Binns		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH - LAT.	EAST + WEST - DEP.	COORDINATES		REMARKS
														Y	X	
									6887.7							
460	617		226 10'	+13.0	7.9	86 -	+43.0	+35.1		6922.8		-316	-530	1,432,574	689,227	
461	947		226 15'	-	8.0	86 30'	+57.8	+49.8		6937.5		-484	-814	1,432,406	688,943	
TP	987	985.2	225 19 04	-	9.0	86 30'	+60.3	+51.3		6939.0	TP	-517	-838	1,437,373	688,919	
TP	987				8.9	273 30'	+60.3	+51.4			TP					
	792	790.9	31 39 39	-	3.0	93 -	+41.5	+44.5			BS	-563	-556			
	792				2.9	267 -	+41.5	+44.4	6983.4		BS					
462	507		31 05'	-	6.8	92 50'	-25.1	-31.9		6951.5		+364	+353	1,432,724	688,716	
463	179		33 38	-	5.5	92 50'	-8.8	-14.3		6969.1		+123	+130	1,436,933	688,493	
X	0				5.1	-		-5.1		6978.3	X	0	0	1,436,810	688,363	
464	156		230 25'	+13.0	6.2	85 50'	+11.3	+5.1		6988.5		-70	-140	1,436,740	688,223	
465	486		229 20'	-	5.8	87 -	+25.4	+19.6		7003.0		-226	-430	1,436,584	687,933	
TP	807	805.9	226 32 46	-	13.2	87 -	+42.2	+29.0		7012.4	TP	-408	-695	1,436,402	687,668	
TP	807				13.1	273 -	+42.2	+29.1			TP					
	1692		81 30 28		13.1	90 40'	+19.7	+32.8			BS	+133	-1687			
	1692				13.0	269 20'	+19.7	+32.7	7045.1		BS					
466	1648		79 15'	-	8.9	90 50'	-24.0	-32.9		7012.2		-65	+1647	1,436,470	687,628	
467	1320		81 40'	-	7.2	90 50'	-19.2	-26.4		7018.7		-107	+1316	1,436,428	687,297	
468	990		81 35'	-	8.4	90 50'	-14.4	-22.8		7022.3		-79	+987	1,436,456	686,968	
469	660		80 45'	-	7.9	90 50'	-9.6	-17.5		7027.6		-43	+659	1,436,492	686,640	
IT-	600		81 14 12	-	7.8	90 50'	-8.7	-16.5		7028.6	IT-	-44	+598	1,436,491	686,579	y=1,436,505 x=686,550 IT-T-TRAIL 7028.0

SURVEY NOTES-HIGH RESOLUTION DATA
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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE					
5-5-86		B. Cotcamp		R. Hulsey		6834		R.H.		7		35					
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER			
ARIZONA		Kinnikinnick Lake-76		AZ.		COCONINO								S. Binns			
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH - LAT.	EAST + WEST - DEP.	COORDINATES		REMARKS	
														Y	X		
									7045.1								
470	330		79 45	+130	6.7	90 50	-4.8	-11.5		7033.6		-16	+330	1,436,519	686,311		
471	0				5.1	-		-5.1		7040.0	X	0	0	1,436,535	685,981		
472	330		265 35	-	6.2	89 10	+4.8	-1.4		7043.7		+49	-326	1,436,584	685,655		
473	659		266 -	-	6.0	89 10	+9.6	+3.6		7048.7		+163	-651	1,436,638	685,330		
474	983		270 40	-	9.0	89 10	+14.3	+5.3		7050.4		+232	-955	1,436,767	685,226		
TP475	1311		273 21 41	-	12.8	89 10	+19.1	+6.3		7051.4	TP	+369	-1258	1,436,904	684,725	ACROSS	
TP475	1311				12.7	270 50	+19.1	+6.4			TP		+2			STATION	
	990		109 50 22	+12.7	10.8	-		+10.8			BS	+533	-835				
	990			+	10.7	270 -		+10.7	7062.1		BS		+2				
476	660		108 -	-	6.0	90 10	-1.9	-7.9		7054.2		-337	+568	1,432,100	684,460		
477	330		-	-	3.5	90 10	-1.0	-4.5		7057.6		-168	+284	1,432,269	684,176		
478	0			-	5.1	-		-5.1		7057.0	X	0	0	1,431,437	683,892		
479	336		288 -	-	5.1	90 40	-3.8	-8.9		7053.2		+168	-284	1,432,605	683,608		
480	660		-	-	5.0	90 40	-7.7	-12.7		7049.4		+337	-568	1,432,774	683,324		
481	990		-	-	5.7	90 40	-11.5	-17.2		7044.9		+505	-851	1,432,942	683,041		
482	1320		-	-	8.0	90 52	-20.0	-28.0		7034.1		+674	-1135	1,438,111	682,757		
483	1647		286 40	-	5.7	90 48	-23.0	-28.7		7033.4		+808	-1435	1,438,245	682,457		
TP	1874		286 20 01	-	4.8	90 40	-21.8	-26.6		7035.5	TP	+909	-1638	1,438,346	682,256		
TP	1874				4.7	269 20	-21.8	-26.5			TP		+2				

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-5-86		B. Cotcamp		R. Hulsey		6834		R.A.H		7		36			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		Kinnickinick Lake 7 1/2		AZ.		COCONINO								S. Binns	
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
										7035.5					
	1427		47 53 52	+12.7	3.8	91 -	+24.9	+28.7	7064.2		BS	-700	-1243		
	1427				+3.7	269 -	+24.9	+28.6		BS				+2	
484	1273		48 50	-	11.1	90 50	-18.5	-29.6		7034.6		+607	+1119	6438,253	682,134
485	962		42 45	-	6.5	91 24	-23.5	-30.0		7034.2		+546	+792	6438,192	681,807
486	658		33 -	-	5.8	91 40	-19.1	-24.9		7039.3		+460	+471	6438,106	681,486
487	330		29 10	-	6.4	92 20	-13.4	-19.8		7044.4		+246	+220	6437,892	681,235
488	0				5.1	-		-5.1		7059.1	π	0	0	6437,646	681,015
489	330		214 25	+12.7	5.7	88 20	+9.6	+3.9		7068.1		-225	-242	6437,421	680,773
490	660		216 25	-	6.0	88 50	+13.4	+7.4		7071.6		-432	-499	6432,214	680,516
TP	805		212 54	-	9.6	88 50	+16.4	+6.8		7071.0	TP	-563	-575	6437,083	680,442
TP	805				9.5	271 10	+16.4	+6.9		TP				+2	
	985		44 41 52	-	+14.2	84	+4.9	+19.1	7090.1		BS	-531	-830		
	985				+14.1	84 20	+4.9	+19.0		BS				+2	
491	788		40 55	-	6.0	90 40	-9.2	-15.2		7074.9		+467	+634	6432,019	680,248
492	458		- -	-	6.5	90 40	-5.3	-11.8		7078.3		+272	+369	6436,824	679,983
493	130		36 40	-	6.0	91 -	-2.3	-8.3		7081.8		+85	+99	6436,637	679,713
π	0				5.1	-		-5.1		7085.0	π	0	0	6436,552	679,614
494	225		264 50	-	5.4	88 20	+6.5	+1.1		7091.2		+30	-223	6436,582	679,391
495	555		- -	-	6.0	88 34	+13.9	+7.9		7098.0		+73	-550	6436,625	679,064
496	885		- -	-	5.9	88 50	+18.0	+12.1		7102.2		+116	-877	6436,668	678,732

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-5-86		B. Cotamp		R. Hulse		6834		RY. H		7		37			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		Kinnikinick Lake-74		AZ.		COCONINO								S. Binns	
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
									7090.1						
497	1215		264 55	+12.7	6.6	89 -	+21.2	+14.6		7104.7		+161	-1204	1436,713	678,410
498	1547		264 57 22	-	13.8	89 -	+27.0	+13.2		7103.3	TP	+206	-1533	1436,758	678,083
498	1547				13.7	271 -	+27.0	+13.3			TP		+2		
	3200		57 29 04	-	14.0	90 24	+22.3	+36.3			BS	-1085	-3010		
	3200				13.7	269 36	+22.3	+36.0	7138.5		BS		+2		
499	2909		54 32	-	5.4	90 40	-33.8	-39.2		7100.3		+1126	+2682	1436,799	677,757
500	2613		51 26	-	10.1	90 40	-30.4	-40.5		7099.0		+1144	+2319	1436,817	677,424
501	2310		48 55	+12.7	7.1	90 50	-33.6	-40.7		7098.8		+1098	+2032	1436,771	677,107
502	1980		48 38	-	9.2	90 50	-28.8	-38.0		7101.5		+950	+1737	1436,623	676,812
503	1650		- -	-	8.3	90 50	-24.0	-32.3		7107.2		+792	+1448	1436,465	676,523
504	1326		- -	-	8.5	90 50	-19.2	-27.7		7111.8		+633	+1158	1436,306	676,233
505	990		- -	-	6.3	90 50	-14.4	-20.7		7118.8		+475	+869	1436,148	675,944
506	660		- -	-	5.1	90 50	-9.6	-14.7		7124.8		+317	+579	1435,990	675,654
#	465		49 07 54	+12.7	3.7	90 50	-6.8	-10.5		7129.0	#	+217	+411	1435,870	675,486
507	330		48 38	-	5.3	90 50	-4.8	-10.1		7129.4		+158	+290	1435,831	675,365
508	0				5.1	-		-5.1		7134.4	^	0	0	1435,673	675,075
509	330		228 05	-	6.2	89 -	+5.8	-0.4		7139.1		-161	-288	1435,512	674,787
510	660		230 40	-	6.8	89 -	+11.5	+4.7		7144.2		-296	-590	1435,327	674,485
511	988		233 10	-	8.0	89 -	+17.2	+9.2		7148.7		-404	-902	1435,269	674,173
512	1316		234 05	-	8.7	89 -	+23.0	+14.3		7153.8		-519	-1209	1435,154	673,866

y=1435.870 x=675.510
FENCELINE EL. 7129.0

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-5-86		B. Cotcamp		R. Huisey		6834		R.H.		7		38			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZ.		Kinnikinick Lake-7 1/2'		AZ.		Cocumino								S. Binns.	
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
									7139.5						
513	1644		234° 30'	+12.7	8.8	89° 10'	+23.9	+15.1		7154.6		-637	-1516	1,435,036	673,559
514	1973		235° 10'	-	11.8	89° 12'	+27.5	+15.7		7155.2		-743	-1828	1,434,930	673,247
515	2302		236° 28'	-	15.2	89° 10'	+33.5	+18.3		7157.8		-819	-2151	1,434,854	672,924
516	2614		238° 46'	-	11.8	89° 10'	+38.0	+26.2		7165.7		-831	-2478	1,434,842	672,597
517	2934		240° 46'	-	9.1	89° 04'	+47.8	+38.7		7178.2		-835	-2813	1,434,838	672,262
518	3253		242° 14'	-	10.0	89° 04'	+53.0	+43.0		7182.5		-846	-3141	1,434,827	671,934
519	3571		243° 40' 40"	+13.0	13.7	89° -	+62.3	+48.6			TP	-823	-3474	1,434,856	671,603
519	3571				13.4	271° -	+62.3	+48.9	+48.3	7188.3	TP		+2		
	1980		77° 55' 59"	-	13.4	90° 48'	+27.6	+41.0	7229.3		BS	+32	-1980		
	1980				13.3	269° 12'	+27.6	+40.9			BS		+2		
520	1650		77° 56'	-	8.3	91° -	-28.8	-37.1		7192.2		-27	+1650	1,434,855	671,275
521	1320		-	-	10.9	91° -	-23.0	-33.9		7195.4		-22	+1320	1,434,860	670,945
522	990		-	-	11.2	91° -	-17.3	-28.5		7200.8		-16	+990	1,434,866	670,615
523	660		-	-	9.1	91° -	-11.5	-20.6		7208.7		-11	+660	1,434,871	670,285
524	330		-	-	6.4	91° -	-5.8	-12.2		7217.1		-5	+330	1,434,877	669,955
525	0				5.1	-		-5.1		7224.2	TP	0	0	1,434,882	669,625
526	330		258° 02'	+13.0	4.8	89° 30'	+2.9	-1.9		7227.4		+6	-330	1,434,888	669,295
527	660		-	-	4.7	89° 30'	+5.8	+1.1		7230.4		+12	-660	1,434,894	668,965
528	990		-	-	6.8	89° 30'	+8.6	+1.8		7231.1		+18	-990	1,434,900	668,635
529	1320		-	-	7.3	89° 30'	+11.5	+4.2		7233.5		+24	-1320	1,434,906	668,305

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DATE		INSTRUMENT MAN.		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-5-86		B. Cotcamp		R. Mulsey		6834		J.M.		7		39			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		KINNICKINICK LAKE-7 1/2		AZ.		COCONINO								S. Binns	
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
									7229.3						
530	1645		256 10 1	+13.0	8.9	89 30	+14.4	+5.5		7234.8		-24	-1645	1,434,858	667,980
531	1969		254 21 27	-	5.2	89 38	+12.6	+7.4		7236.7	TP	-91	-1967	1,434,791	667,660
531	1969				5.1	270 22	+12.6	+7.5			TP		12		
	1975		60 30 01	+12.7	12.5	90 30	+17.2	+29.7	7266.4		BS	-571	-1891		
	1975			+12.4		269 30	+17.2	+29.6			BS		+2		
532	1650		60 30	-	11.0	90 30	-14.4	-25.4		7241.0		+477	+1580	1,434,697	667,351
533	1320		-	-	10.7	90 30	-11.5	-22.2		7244.2		+382	+1264	1,434,602	667,035
534	990		-	-	9.4	90 30	-8.6	-18.0		7248.4		+286	+948	1,434,506	666,719
535	660		-	-	16.6	90 30	-5.8	-16.4		7250.0		+191	+632	1,434,411	666,403
4F	397		61 04 57	-	7.9	90 30	-3.5	-11.4		7255.0	4F	+111	+381	1,434,331	666,152
536	330		60 30	-	7.6	90 30	-2.9	-10.5		7255.9		+95	+316	1,434,315	666,087
537	0				5.1	-	-	-5.1		7261.3	TP	0	0	1,434,220	665,771
538	330		240 33	+12.7	5.2	-	-	-5.2		7261.2		-95	-316	1,434,125	665,455
539	660		-	-	8.0	-	-	-8.0		7258.4		-190	-632	1,434,030	665,139
540	990		-	-	11.0	-	-	-11.0		7255.4		-285	-948	1,433,935	664,823
541	1320		240 33	-	12.0	-	-	-12.0		7254.4		-380	-1264	1,433,840	664,507
542	1650		-	-	10.4	-	-	-10.4		7256.0		-476	-1580	1,433,744	664,191
543	1980		-	-	12.1	-	-	-12.1		7254.3		-571	-1896	1,433,649	663,875
544	2307		240 06 22	-	6.2	BH	-11.5	-17.7		7248.7	TP	-682	-2204	1,433,538	663,569
544	2307				6.1	BH 270	-11.5	-17.6			TP		12		

4WAY Int. El. 7255.0

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-5-86		B. Cotcamp		R. Hulsey		6834		J.M.		7		40			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		MORMON LAKE - 7 1/2'		AZ.		COCONINO								S. Binns	
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
										7248.7					
	3298		45 48 32	+12.7	1.7	TH	-16.5	-14.8			BS	-1723	-2812		
	3298				1.4	TH 270	-16.5	-15.1	7203	7233.7	BS		+2		
545	2970		45 48	-	3.3	TH	+14.9	+11.6		7245.3	#	+1552	+2532	1,433,367	663,291
546	2640		-	-	8.0	TH	+13.2	+5.2		7238.9		+1379	+2251	1,433,194	663,010
547	2310		-	-	5.3	-		-5.3		7228.4		+1267	+1970	1,433,022	662,729
548	1980		-	-	9.0	-		-9.0		7224.7		+1035	+1688	1,432,850	662,447
549	1650		45 48	+12.7	9.0	-		-9.0		7224.7		+862	+1407	1,432,677	662,166
550	1320		-	-	8.0	-		-8.0		7225.7		+690	+1125	1,432,505	661,884
551	990		-	-	11.0	-		-11.0		7222.7		+517	+844	1,432,332	661,603
552	660		-	-	9.7	BH	-3.3	-13.0		7220.7		+345	+563	1,432,160	661,322
553	330		-	-	8.7	-		-8.7		7225.0	#	+172	+281	1,431,980	661,040
554	0				5.1	-		-5.1		7228.6	X	0	0	1,431,815	660,759
555	330		225 50	+12.7	7.0	-		-7.0		7226.7		-172	-281	1,431,643	660,478
556	660		-	-	11.3	BH	-3.3	-14.6		7219.1		-345	-563	1,431,470	660,196
557	990		-	-	6.8	91	-	-17.3		7209.6		-517	-844	1,431,298	659,915
558	1325		225 01 24	-	12.0	91	-	-23.1		7198.6	TP	-707	-1120	1,431,108	659,641
558	1325				11.9	269	-	-23.1			TP		+2		
	1494		76 22 20	+13.0	13.5	89 34	-	-11.3			BS	+62	-1493		
	1494		79 22 20	↓ 13.2	270 26	-		-11.3			BS		+2		

1,431,980 x -661,070
powerline

across sta.

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-5-86		B. Cotcamp		R. Hulsey		6834				7		41			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZ.		MORMON LAKE-7k'		AZ.		COCONINO								S. Binns	
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
									7200.6						
559	1147		80° 30'	+13.0	8.1	89° 34'	+8.7	+0.6		7201.2		-70	+1145	1,431,100	659,295
560	818		79° 45'	-	7.0	89° 34'	+6.2	-0.8		7199.8		-39	+817	1,431,131	658,967
561	489		78° 56'	-	6.9	89° -	+8.5	+1.6		7202.2		-17	+489	1,431,153	658,639
562	159		74° 40'	-	4.2	89° -	+2.8	-1.4		7199.2		+6	+159	1,431,176	658,309
TP	0				5.1	-		-5.1		7195.5	TP	0	0	1,431,170	658,150
563	170		230° 02'	+13.0	7.2	89° 20'	+2.0	-5.2		7195.4		-77	-152	1,431,093	657,998
564	500		-	-	10.1	89° 20'	+5.8	-4.3		7196.3		-227	-446	1,430,943	657,704
565	830		-	-	10.3	89° 20'	+9.7	-0.6		7200.0		-376	-740	1,430,794	657,410
566	1160		-	-	8.1	89° 20'	+13.5	+5.4		7206.0		-526	-1034	1,430,644	657,116
567	1490		230° 02'	-	3.9	89° 20'	+17.3	+13.4		7214.0		-676	-1328	1,430,494	656,822
568	1820		-	+13.0	6.5	89° 20'	+21.2	+14.7		7215.3		-825	-1622	1,430,345	656,528
569	2150		-	-	10.9	89° 20'	+25.0	+14.1		7214.7		-975	-1916	1,430,195	656,234
570	2480		-	-	10.4	89° 24'	+26.0	+15.6		7216.2		-1125	-2210	1,430,045	655,940
571	2810		-	-	10.0	89° 24'	+29.4	+19.4		7220.0		-1274	-2504	1,429,896	655,646
572	3140		-	-	6.2	89° 24'	+32.9	+26.7		7227.3		-1424	-2799	1,429,746	655,351
573	3470		-	-	10.3	89° 12'	+48.4	+38.1		7238.7		-1574	-3093	1,429,596	655,057
574	3800		230° 15' 03"	+12.8	10.4	89° 10'	+55.3	+44.9		7245.5	TP	-1122	-3387	1,429,448	654,765
574	3800				15.0	270° 51' 16"	+60.0	+45.0			TP		"2		
	1977		50° 15' 03"	-	3.4	-		+3.4			BS	-896	-1762		
	1977				3.3	120° -		+3.3	72488		BS		"2		

SURVEY NOTES-HIGH RESOLUTION DATA
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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE						
5-5-86		B. Cotcamp		R. Hulsey		6834		J.M.		7		42						
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER				
ARIZONA		MORMON LAKE-7 1/2'		AZ.		COCONINO								S. Binns				
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			
									7248.8									
575	1650		50 15	+128	5.0	-		-5.0		7243.8		+748	+1471	1,429,300	654,476			
576	1320		- -	-	4.2	-		-4.2		7244.6		+598	+1177	1,429,150	654,182			
577	990		- -	-	5.4	-		-5.4		7243.4		+449	+882	1,429,001	653,887			
578	660		- -	-	7.3	TH	+3.3	-4.0		7244.8		+299	+588	1,428,851	653,593			
579	330		- -	-	4.5	TH	+1.7	-2.8		7246.0		+150	+294	1,428,702	653,299			
580	0		.		5.1	-		-5.1		7243.7	X	0	0	1,428,552	653,005			
581	330		230 20	+128	7.0	90 40	-3.8	-10.8		7238.0		-149	-294	1,428,403	652,711			
582	660		- -	-	8.1	90 40	-7.7	-15.8		7233.0		-298	-589	1,428,254	652,416			
583	990		- -	-	8.1	90 40	-11.5	-19.6		7229.2		-447	-883	1,428,105	652,122			
584	1320		- -	-	11.0	90 40	-15.4	-26.4		7222.4		-597	-1178	1,427,955	651,827			
TP	1435		229 39 46	-	3.7	91 -	-25.0	-28.7		7220.1	TP	-663	-1272	1,427,809	651,735			
TP	1435				3.6	269 -	-25.0	-28.6			TP		+2					
	1039		35 32 01	+128	4.6	87 50	-39.3	-34.7			BS	-690	-776					
	1039				+4.5	272 10	-39.3	-34.8	7185.3		BS		+2					
585	827		34 30	-	4.0	88 -	+28.8	+24.8		7210.1		+561	+608	1,427,761	651,569			
586	496		37 -	-	8.1	89 -	+8.7	+0.6		7185.9		+320	+379	1,427,520	651,340			
#	361		36 18	-	8.7	89 -	+6.3	-2.4		7182.9	#	+236	+273	1,427,436	651,234			-1427.420 x -651,290
587	181		19 20	-	6.9	89 -	+3.2	-3.7		7181.6		+153	+96	1,427,353	651,057			
X	0		.		5.1	-		-5.1		7180.2	X	0	0	1,427,200	650,961			
588	144		233 15	-	6.7	87 -	+7.5	+0.8		7186.1		-58	-132	1,427,142	650,829			

SURVEY NOTES-HIGH RESOLUTION DATA
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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-5-86		B. Cotcamp		R. Huisey		6834		J.M.		7		43			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		MORMON LAKE-7 1/2'		AZ.		COLONINO								S. Binns	
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
									7185.3						
589	465		212 05	+128	10.7	87 -	+24.3	+13.6		7198.9		-329	-328	1,426,871	650,633
590	795		213 30	-	7.1	87 26	+35.6	+28.5		7213.8		-549	-575	1,426,651	650,386
TP	942		213 03 14	-	7.7	87 26	+42.2	+34.5		7219.8	TP	-655	-675	1,426,545	650,287
TP	942			-	7.6	272 34	+42.2	+34.6			TP		+		
	747		31 58 59	-	4.8	92 -	+26.1	+30.9		7250.7	BS	-502	-553		
	747			-	4.8	268 -	+26.1	+30.9			BS	+	+		
591	560		33 15	-	5.5	92 -	-19.5	-25.0		7225.7		+389	+403	1,426,433	650,138
592	231		30 -	-	6.2	92 -	-8.1	-14.3		7236.4		+169	+157	1,426,213	649,892
	0			-	5.1	-		-5.1		7245.6	TP	0	0	1,426,044	649,735
593	95		211 -	+128	5.5	86 30	+5.8	+0.3		7251.0		-69	-66	1,425,975	649,669
594	423 423		196 20	-	5.9	86 30	+25.8	+19.9		7270.6		-369	-206	1,425,625	649,529
595	753		194 35	-	7.0	86 30	+45.9	+38.9		7289.6		-669	-346	1,425,325	649,389
TP	926	924.3	197 01 57	-	6.8	86 30	+56.5	+49.7		7300.4	TP	-802	-460	1,425,243	649,275
TP	926			-	6.7	273 30	+56.5	+49.8			TP		"		
	1828		86 24 52	+128	10.8	91 24	+44.7	+55.5			BS	+293	-1804		
	1828			-	10.7	268 36	+44.7	+55.4		7355.8	BS		"		
596	1650		86 10	-	7.3	91 20	-38.4	-45.7		7310.1		-257	+1630	1,425,280	649,101
597	1320		-	-	9.1	91 20	-30.7	-39.8		7316.0		-206	+1304	1,425,331	648,775
598	990		-	-	9.8	91 20	-23.0	-32.8		7323.0		-154	+978	1,425,383	648,449
599	660		-	-	7.6	91 20	-15.4	-23.0		7332.8		-163	+652	1,425,534	648,123

SURVEY NOTES-HIGH RESOLUTION DATA
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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-9-86		B. Cotcamp		R. Hulsey		6834		J.M.		7		44			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		MORMON LAKE-7 1/2		AZ		CO CONINO								S. BIRNS	
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
									7355.8						
600	330		86 10	+128	5.1	91 20	-7.7	-12.8		7343.0		-51	+326	1425.486	647.297
601	0				5.1	-		-5.1		7350.7	X	0	0	1425.537	647.471
X	91		300 20	-	3.0	91 20	-2.1	-5.1		7350.7		+62	-66	1425.600	647.405
602	296		173 40	-	6.2	88 20	+8.6	+2.4		7358.2		-294	-33	1425.243	647.438
603	621		166 23	-	5.0	89 10	+9.0	+4.0		7359.8		-621	+9	1424.916	647.480
604	950		163 05	-	10.2	89 10	+13.8	+3.6		7359.4		-948	+68	1424.589	647.539
605	1272		162 20	-	9.0	89 10	+18.5	+9.5		7365.3		-1267	+108	1424.270	647.579
TP	1367		163 02 12	+128	11.4	89 10	+19.9	+8.5		7364.3	TP	-1363	+99	1424.174	647.570
TP	1367				11.3	270 50	+19.9	+8.6			TP				
	808		359 04 27	-	2.3	-		+2.3			BS	-791	-166		
	808			-	2.2	270 -		+2.2		73665	BS				
606	572		354 35	--	6.5	-		-6.5		7360.0		+567	+74	1423.950	647.478
607	251		1 -	--	6.5	-		-6.5		7360.0		+244	+60	1423.627	647.464
X	0				5.1	-		-5.1		7361.4	X	0	0	1423.383	647.404
608	74		192 30	+128	5.0	-		-5.0		7361.5		-67	-32	1423.316	647.372
609	400		198 35	-	4.7	89 -	+7.0	+2.3		7368.8		-341	-208	1423.042	647.196
610	723		195 51	-	2.8	88 50	+14.7	+11.9		7378.4		-634	-347	1422.749	647.057
611	1054		196 18	-	7.0	88 50	+21.5	+14.5		7381.0		-921	-513	1422.462	646.891

y - 1425.600 x - 647.405
y - Inter Horiz. +5
coll. x +42

SURVEY NOTES-HIGH RESOLUTION DATA
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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
5-9-86		B. Cotcamp		R. Hulsey		6834		J.M.		7		45				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
ARIZONA		MORMON LAKE-7 1/2		AZ.		COCONINO								S. Binns		
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
									7366.5							
612	1387		198 13 28	+128	13.3	88 50	+28.2	+14.9	7381.4	TP		-1188	-715	1,422,195	646,689	LAST STA. ON TRAIL
612	1387				13.2	271 10	+28.2	+15.0								
	279	277.9	29 05 03	--	4.8	85 -	-24.3	-19.5	7361.9	BS		-207	-186			X - COUNTRY TO 615 1/2
	279				4.0	85 10	-23.5	-19.5								
π	0				5.1	-		-5.1	7356.8	π		0	0	1,421,988	646,503	
613	42		201 50	-	13.8	94 -	-2.9	-16.7	7345.2			-35	-24	1,421,953	646,479	
TP	353	343.5	201 01 18	-	4.0	103 20	-81.4	-85.4	7276.5	TP		-285	-191	1,421,703	646,312	
TP	353				3.9	256 40	-81.4	-85.3								
	125	121.3	26 45 42	+128	2.7	76 -	-30.2	-27.5	7248.9	BS		-94	-77			
	125				2.3	76 10	-29.9	-27.6								
614	109		18 15	-	4.2	76 10	+26.1	+21.9	7270.8			+93	+56	1,421,702	646,291	
π	0				5.1	-		-5.1	7243.8	π		0	0	1,421,609	646,235	
615	225		225 05	-	10.2	106 10	-62.6	-72.8	7176.1			-120	-191	1,421,489	646,044	
π	272		224 26 51	-	10.0	104 10	-66.6	-76.6	7172.3	π		-143	-222	1,421,466	646,013	
TP	423	414.5	224 13 42	-	4.7	101 30	-84.3	-89.0	7159.9	TP		-226	-348	1,421,383	645,887	BACK ON TRAIL
TP	423				3.5	101 40	-85.5	-89.0								
	1267		59 35 28	-	5.1	88 22	-36.1	-31.0	31137128.8	BS		-383	-1207			
	1267				5.7	271 40	-36.9	-31.2								
616	1178		63 40	-	7.7	88 30	+30.8	+23.1	7151.9			+276	+1145	1,421,276	645,825	
617	965		77 50	-	6.2	89 50	+2.8	-3.4	7125.4			+11	+965	1,420,989	645,645	

SURVEY NOTES-HIGH RESOLUTION DATA
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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE					
5-9-86		B. Cotcamp		R. Hulsey		6834		J.M.		7		46					
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER			
ARIZONA		MORMON LAKE-7 1/2'		AZ.		COCONINO								S. Binns			
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
									7128.8								
#	705		82° 23' 50"	+128	9.0	89° 50'	+2.1	-6.9		7121.9		-64	+702	1,420,936	645,382		
618	651		82° 30'	-	9.7	89° 50'	+1.9	-7.8		7121.0		-60	+648	1,420,940	645,328		
619	327		87° 45'	-	8.7	89° 50'	+1.0	-7.7		7121.1		-60	+321	1,420,940	645,001		
620	0				5.1	-		-5.1		7123.7		0	0	1,421,000	644,680		
#	71		214° 22' 30"	+128	4.4	89° 50'	+0.2	-4.2		7124.6	#	-48	-52	1,420,952	644,628		Y=1,421,000 X=644,600 Hwy Inter. EL. 7123.0
621	322		254° 45'	-	6.5	89° 50'	+0.9	-5.6		7123.2		-14	-322	1,420,986	644,358		
622	645		257° 35'	-	5.0	89° 50'	+1.9	-3.1		7125.7		+4	-645	1,421,004	644,035		
623	919		270° 57'	-	8.1	89° -	+16.0	+7.9		7136.7		+218	-893	1,421,218	643,787		
624	1143		283° 24'	-	5.8	88° 44'	+25.3	+19.5		7148.3		+505	-1026	1,421,505	643,654		
625	1465		287° 30'	-	6.0	88° 28'	+39.2	+33.2		7162.0		+739	-1265	1,421,739	643,415		
TP	1543		285° 36' 54"	-	5.7	88° 30'	+40.4	+34.7	34.8?	7163.6	TP	+734	-1357	1,421,734	643,323		
TP	1543				5.4	271° 30'	+40.4	+35.0			TP						
	356		40° 32' 50"	+128	6.0	91° -	+6.2	+12.2			BS	-212	-286				
	356				+5.9	269° -	+6.2	+12.1		7175.7	BS						
626	177		2° 15'	-	6.9	91° -	-3.1	-10.0		7165.7		+171	+46	1,421,693	643,083		
X	0				5.1	-		-5.1		7170.6	X	0	0	1,421,522	643,037		
#	83		279° 33' 48"	-	5.2	91° -	-1.4	-6.6		7169.1	#	+32	-77	1,421,554	642,960		Y=1,421,600 X=642,980 T-Inter.
627	168		233° 10'	-	5.2	88° 50'	+3.4	-1.8		7173.9		-68	-153	1,421,454	642,884		
628	490		218° 05'	-	5.9	88° 10'	+15.7	+9.8		7185.5		-309	-380	1,421,213	642,657		

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
5-9-86		B. Cotcamp		R. Hulsey		6834		J.M.		7	47						
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
ARIZONA		MORMON LAKE-7 1/2		AZ.	COCONINO					S. Binns							
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		
									7175.7								
TP	739		218 55 18	+128	4.9	88 28	+19.8	+14.9		7190.6	TP	-458	-580	1,421,064	642,457		
TP	739				4.8	271 32	+19.8	+15.0			TP						
	635		48 21 34	-	6.0	92	+22.2	+28.2			BS	-306	-556				
	635				5.9	268	+22.2	+28.1	7218.7		BS						
629	549		47 20	-	7.7	92	-19.1	-26.8		7191.9		+273	+476	1,421,031	642,377		
630	219		51 -	-	9.5	92	-7.6	-17.1		7201.6		+97	+197	1,420,855	642,098		
π	0				5.1	-		-5.1		7213.6	π	0	0	1,420,758	641,901		
631	110		244 05	+128	1.2	91	-1.9	-3.1		7215.6		-25	-107	1,420,733	641,794		
632	439		248 35	-	9.0	90 36	-4.6	-13.6		7205.1		-66	-434	1,420,692	641,467		
633	769		247 50	-	11.8	90 52	-11.6	-23.4		7195.3		-125	-759	1,420,633	641,142		
634	1096		246 42	-	6.3	91 10	-22.3	-28.6		7190.1		-200	-1078	1,420,558	640,823		
TP	1440		246 46 48	-	1.0	90 58	-24.3	-25.3		7193.4	TP	-260	-1416	1,420,498	640,485		
TP	1440				0.9	269 02	-24.3	-25.2			TP						
	905		110 56 16	+128	8.0	88 30	-23.7	-15.7			BS	+502	-752				
	905				7.9	271 30	-23.7	-15.8	7177.6		BS						
635	904		109 27	-	9.4	88 40	+21.0	+11.6		7189.2		-482	+765	1,420,518	640,498		
636	572		109 05	-	8.1	88	+20.0	+11.9		7189.5		-302	+486	1,420,698	640,219		
637	240		104 -	-	3.2	88	+8.4	+5.2		7182.8		-108	+214	1,420,892	639,947		
π	0				5.1	-		-5.1		7172.5	π	0	0	1,421,000	639,733		
638	92		257 52	-	6.1	91	-1.6	-7.7		7169.9		+1	-92	1,421,001	639,641		

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-9-86		B. Cotcamp		R. Hulse		6834		J.M.		7		49			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		MORMON LAKE-7 1/2		AZ.		COCONINO								S. Binns	
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
									7195.8						
	461	459.3	94° 03' 22"	+12.5	6.0	95°	+40.2	+46.2	7242.0		BS	+131	-440		
	461				+4.6	95° 10'	+41.5	+46.1			BS				
651	147		72° -	-	5.4	95° 10'	-13.2	-18.6		7223.4		+14	+146	1,420,159	636,251
	X	0			5.1	-		-5.1		7236.9	X	0	0	1,420,145	636,105
652	183		251° -	-	8.8	84° 10'	+18.6	+9.8		7251.8		-21	-182	1,420,124	635,923
653	513		248° 30'	-	10.4	86° 10'	+34.3	+23.9		7265.9		-80	-507	1,420,065	635,598
654	844	842.2	248° 55' 06"	-	14.7	86° 18'	+54.5	+39.8			TP	-126	-833	1,420,019	635,272
654	844				14.6	273° 42'	+54.5	+39.9		7281.9	TP				ACROSS STA.
	556		83° 57' 49"	+12.5	12.9	91° 40'	+16.2	+29.1	7311.0		BS	+63	-552		
	556				+12.8	268° 20'	+16.2	+29.0			BS				
655	233		81° 42'	-	5.3	90° 40'	-2.7	-8.0		7303.0		-17	+232	1,420,065	634,952
	X	0			5.1	-		-5.1		7305.9	X	0	0	1,420,082	634,720
656	133		199° 05'	-	6.9	83° 40'	+14.7	+7.8		7318.8		-113	-70	1,419,969	634,650
657	458		196° 25'	-	9.0	85° 20'	+37.3	+28.3		7339.3		-401	-221	1,419,681	634,499
658	774	771.3	195° 30' 55"	-	6.7	85° 10'	+65.2	+58.5			TP	-681	-362	1,419,401	634,358
658	774				6.6	274° 50'	+65.2	+58.6		7369.6	TP				ACROSS STA.
	465	462.9	24° 20' 09"	-	+1.3	95° 30'	+44.6	+45.9	7415.5		BS	-370	-278		
	465				+1.2	261° 30'	+44.6	+45.8			BS				
659	154		357° -	-	7.4	95° 30'	-14.8	-22.2		7393.3		+152	+25	1,419,183	634,105
	X	0			5.1	-		-5.1		7410.4	X	0	0	1,419,031	634,080

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-9-86		B. Cotcamp		R. Hulsey		6834		J.M.		7		50			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		MORMON LAKE-7 1/2		AZ.		COCONINO								S. Binns	
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
									7415.5						
660	167		179 -	+12.5	7.0	82 30	+21.8	+14.8		7430.3		-164	-33	1,418,867	634,047
661	495	490.8	180 20 18	-	14.6	82 30	+64.6	+50.0			TP	-479	-109	1,418,552	633,971
661	495				14.5	277 30	+64.6	+50.1		7465.6	TP				
	530		8 58 -	--+	13.7	BH	+2.7	+16.4	7482.0		BS	-493	-194		
	530				+13.6	BH270	+2.7	+16.3			BS				
662	317		333 42	--	5.8	TH	+1.6	-4.2		7477.8		+308	-76	1,418,367	633,701
663	0				5.1	-		-5.1		7476.9	π	0	0	1,418,059	633,777
π	289		149 13 45	+12.5	8.3	-		-8.3		7473.7		-274	+91	1,417,785	633,868
664	330		152 -	--	8.2	-		-8.2		7473.8		-318	+88	1,417,741	633,865
TP	473		155 25 12	--	8.4	-		-8.4			TP	-463	+99	1,417,596	633,876
TP	473				8.3	270 -		-8.3		7473.7	TP				
	1101	1099.9	16 12 -	+12.5	2.5	92 34	+49.3	+51.8	7525.5		BS	-965	-528		
	1101				+2.4	267 26	+49.3	+51.7			BS				
665	903		15 40	--	6.0	92 44	-43.1	-49.1		7476.4		+796	+426	1,417,427	633,774
666	575		15 55	--	8.0	93 -	-30.1	-38.1		7487.4		+506	+274	1,417,137	633,622
667	245		16 45	--	11.0	93 -	-12.8	-23.8		7501.7		+214	+120	1,416,845	633,468
π	0				5.1	-		-5.1		7520.4	π	0	0	1,416,631	633,348
668	107		239 40	+12.5	6.0	88 -	+3.7	-2.3		7523.2		-33	-102	1,416,598	633,246
669	425		239 05	--	7.0	87 -	+22.2	+15.2		7540.7		-134	-403	1,416,497	632,945

3-1417,125 x-633,890
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SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 5-9-86	INSTRUMENT MAN B. Cotcamp	ROD MAN R. Huisey	PARTY NUMBER 6834	NOTES CHECKED BY F.M.	LINE NO. 7	PAGE 51
AREA ARIZONA	TOPO MAP MORMON LAKE-7 1/2	STATE AZ.	COUNTY COCONINO	TWP RANGE	PPM	PARTY MANAGER S. Binns

STATION NO. WI	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.	
									7525.5					
TP	494	498.2	235 11 45	+12.5	13.0	86 40	+28.7	+15.7			TP	-187	-456	1,416,444 632,892
TP	494				12.9	273 20	+28.7	+15.8		7541.3	TP			
	846		64 47 40	-	+1.1	91 32	+22.6	+23.7	7565.0		BS	-186	-825	
	846				+1.0	268 28	+22.6	+23.6			BS			
670	629		74 45	-	6.0	91 32	-16.8	-22.8		7542.2		+30	+628	1,416,288 632,695
671	369		95 10	-	6.9	91 32	-9.9	-16.8		7548.2		-112	+352	1,416,146 632,419
672	94		35 05	-	7.0	91 32	-2.5	-9.5		7555.5		+63	+69	1,416,321 632,136
π	0				5.1	-		-5.1		7559.9	π	0	0	1,416,258 632,067
π	98		258 59 55	+12.5	5.1	91 32	-2.6	-7.7		7552.3		+3	-98	1,416,261 631,969
673	181		215 15	--	9.0	91 32	-4.8	-13.8		7551.2		-122	-134	1,416,136 631,933
TP	273		193 33 57	--	11.0	90 22	-1.7	-12.7		7552.3	TP	-245	-120	1,416,013 631,947
TP	273				10.9	269 38	-1.7	-12.6			TP			
	269		319 20 24	+12.5	14.6	86 20	-17.2	-2.6	7549.7		BS	-237	+127	
	269				14.0	86 28	-16.6	-2.6			BS			
674	94		289 30	--	5.3	-		-5.3		7544.4		+50	-80	1,415,826 631,994
π	0				5.1	-		-5.1		7544.6	π	0	0	1,415,776 632,074
675	243		136 50	--	7.9	92 -	-8.5	-16.4		7533.3		-209	+124	1,415,567 632,198
TP	502		148 14 32	-	5.5	92 14	-19.6	-25.1		7524.6	TP	-474	+165	1,415,302 632,239
TP	502				5.4	267 46	-19.6	-25.0			TP			

Y-1,416,200 X-632,000 TRAIL

SURVEY NOTES-HIGH RESOLUTION DATA
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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
5-9-86		B. Cotcamp		R. Hulsey		6834		J.M.		7	52					
AREA		TOPO MAP	STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
ARIZONA		MORMON LAKE-7 1/2'	AZ.	COCONINO					S. Binns							
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	
										7524.6						
	328		58 19' 28"	+12.5	7.0	87 30'	-14.3	-7.3	7517.3		BS	-108	-310			
	328				+6.9	272 30'	-14.3	-7.4		BS						
676	265		60 15'	-	6.2	87 40'	+10.8	+4.6		7521.9		+79	+253	1,415,273	632,182	
	0				5.1			-5.1		7519.2		0	0	1,415,194	631,929	
677	46		259 30'	-	6.0	91 30'	-1.2	-7.2		7510.1		+2	-46	1,415,196	631,883	
	221		258 12 06	-	4.9	91 30'	-5.8	-10.7		7506.6		+3	-24	1,415,197	631,708	1/2" - 1,415,200 x -631,766
678	354		243 20'	-	5.2	91 10'	-7.2	-12.4		7504.9		-87	-343	1,415,107	631,586	
TP	639		256 13 12	-	1.9	91 -	-11.2	-13.1		7504.2	TP	-14	-639	1,415,180	631,290	
TP	639				1.8	269 -	-11.2	-13.0			TP					
	660		13 44 06	+12.5	9.6	-		+9.6	7513.8		BS	-592	-292			
	660				+9.5	220 -		+9.5		BS						
679	575		14 55'	-	9.4	-		-9.4		7504.4		+510	+265	1,415,098	631,263	
680	254		13 -	-	5.0	-		-5.0		7508.8		+229	+109	1,414,817	631,107	
	0				5.1	-		-5.1		7508.7		0	0	1,414,588	630,998	mag Rock
681	76		164 30'	-	6.2	-		-6.2		7507.6		-76	+4	1,414,512	631,002	
682	402		136 10'	-	8.0	91 50'	-12.9	-20.9		7492.9		-343	+209	1,414,245	631,207	
683	723		131 34 04	-	13.7	91 50'	-23.1	-36.8		7477.0	TP	-585	+424	1,414,003	631,421	
683	723				13.6	268 10'	-23.1	-36.7			TP		-1			

SURVEY NOTES-HIGH RESOLUTION DATA
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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY			LINE NO.		PAGE		
5-12-86		B. Cotcamp		J. Middleton		6834		F.M.			7		53		
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		MORMON LAKE-7 1/2		AZ.		Coconino								S. Binns	
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
									7477.0						
	424		327 41 08	+12.5	8.7	87 -	-22.2	-13.5	7463.5		BS	-398	+144		
	424				+8.6	273 -	-22.2	-13.6			BS		-1		
684	95		323 40	--	5.0	87 30	+4.1	-0.9		7462.6		+87	-38	1,413,692	631,526
π	0				5.1	-		-5.1		7458.4	π	0	0	1,413,605	631,564
685	224		159 -	--	6.0	93 -	-11.7	-17.7		7445.8		-221	+33	1,413,384	631,597
686	424		204 40	--	6.3	93 30	-25.9	-32.2		7431.3		-338	-256	1,413,267	631,308
687	698		222 10	--	14.7	92 20	-28.4	-43.1		7420.4		-404	-569	1,413,201	630,995
TP	805		220 10 28	+12.9	14.8	92 28	-34.6	-49.4		7414.1	TP	-483	-643	1,413,122	630,920
TP	805				14.7	267 32	-34.6	-49.3			TP		-1		
	541		28 36 35	+12.9	3.8	86 46	-30.5	-26.7	7387.4		BS	-404	-358		
	541				+3.7	273 14	-30.5	-26.8			BS		-1		
688	330		29 -	-	5.4	87 04	+16.9	+11.5		7398.9		+246	+220	1,412,964	630,781
689	0				5.1	-		-5.1		7382.3	π	0	0	1,412,718	630,561
690	328		221 25	-	6.0	93 20	-19.1	-25.1		7362.3		-191	-266	1,412,527	630,295
691	645		215 38	-	5.9	93 -	-33.8	-39.7		7347.7		-427	-483	1,412,291	630,078
692	937		204 -	-	11.9	92 -	-32.7	-44.6		7342.8		-749	-563	1,411,969	629,998
693	1209		196 18	+13.3	4.8	91 52	-39.4	-44.2		7343.2	TP	-1051	-597	1,411,667	629,963
693	1209				4.7	268 08	-39.4	-44.1			TP		-1		
	789		50 25 49	--	+6.5	91 06	+15.1	+21.6	7364.8		BS	-349	-707		
	789				+6.4	268 54	+15.1	+21.5			BS		-1		

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SURVEY NOTES-HIGH RESOLUTION DATA
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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-12-86		B. Cotcamp		J. Middleton		6834		J.M.		7		54			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZ.		MORMON LAKE-7 1/2'		AZ.		COCONINO								S. Binns	
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
									7364.8						
694	461		47° 25'	+13.3	7.0	90° 50'	-6.7	-13.7		7351.1		+225	+402	1,411,543	629,657
695	140		55° -	-	8.3	90° 50'	-2.0	-10.3		7354.5		+52	+130	1,411,370	629,385
π	0				5.1	-		-5.1		7359.7	π	0	0	1,411,318	629,255
696	214		197° 50'	-	5.0	90° 50'	-3.1	-8.1		7356.7		-183	-111	1,411,135	629,144
697	542		194° 40'	-	7.1	91° 28'	-13.9	-21.0		7343.8		-479	-254	1,410,839	629,001
TP	678		194° 38' 22"	-	8.8	91° 40'	-19.7	-28.5		7336.3	TP	-599	-318	1,410,718	628,936
TP	678				10.8	91° 30'	-17.7	-28.5			TP	-1	-1		
	394		349° 34' 54"	+13.3	7.4	85° 40'	-29.8	-22.4	7313.9		BS	-392	-20		
	394				+7.3	274° 20'	-29.8	-22.5			BS	-2	-1		
698	224		358° 40'	-	4.9	85° 40'	+16.9	+12.0		7325.9		+219	+46	1,410,543	628,961
π	0				5.1	-		-5.1		7308.8	π	0	0	1,410,324	628,915
699	126		275° -	-	6.8	92° -	-4.4	-11.2		7302.7		+40	-120	1,410,364	628,795
700	450		271° 17' 27"	+12.9	1.1	92° -	-15.7	-16.8		7297.1	TP	+110	-436	1,410,432	628,478
700	450				1.0	268° -	-15.7	-16.7			TP	-2	-1		
	546		107° 47' 22"	+12.5	4.5	-		+4.5	7301.6		BS	+275	-471		
	546				+7.2	TH	-2.7	+4.5			BS	-2	-1		
701	215		107° 50'	-	4.8	-		-4.8		7296.8		-109	+186	1,410,596	628,192
π	0				5.1	-		-5.1		7296.5	π	0	0	1,410,705	628,006
702	120		303° 05'	-	5.1	-		-5.1		7296.5		+86	-84	1,410,791	627,922
703	450		301° -	-	5.0	TH	+2.3	-2.7		7298.9		+310	-326	1,411,015	627,680

ACROSS ON OLD RAILROAD GRADE STA.

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 5-12-86	INSTRUMENT MAN B. Cotcamp	ROD MAN J. Middleton	PARTY NUMBER 6834	NOTES CHECKED BY F.M.	LINE NO. 7	PAGE 55
AREA ARIZONA	TOPO MAP MORMON LAKE-7 1/2'	STATE AZ.	COUNTY COCONINO	TWP	RANGE	PPM
				PARTY MANAGER S. Binns		

STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									7301.6					
704	780		300° 40'	+12.5	3.8	TH	+3.9	+0.1		7301.7		+534	-569	1,411,239 627,437
705	1110		300° 32'	-	6.3	TH	+5.6	-0.7		7300.9		+757	-811	1,411,462 627,195
706	1440		-	-	9.0	TH	+7.2	-1.8		7299.8		+983	-1053	1,411,688 626,953
707	1770		-	-	11.2	TH	+8.9	-2.3		7299.3		+1208	-1294	1,411,913 626,712
708	2100		-	-	9.7	89° 50'	+6.1	-3.6		7298.0		+1433	-1535	1,412,138 626,471
709	2431		300° 28' 36"	+12.2	14.6	89° 46'	+9.9	-4.7	4.6 1/2	7297.0	TP	+1648	-1787	1,412,351 626,218
709	2431				14.3	270° 14'	+9.9	-4.4			TP	-2	-1	
	1751		119° 02' 12"	--	5.4	-		+5.4	5.3 1/2	7302.3	BS	+1154	-1317	
	1751				5.2	270 -		+5.2			BS	-2	-1	
IF	1617		126° 41' 27"	--	12.8	-		-12.8		7289.5		-1218	+1063	1,412,285 625,963
710	1421		118° 50'	+12.2	6.2	-		-6.2		7296.1		-933	+1072	1,412,570 625,972
711	1091		118° 45'	--	5.9	-		-5.9		7296.4		-715	+824	1,412,288 625,724
712	761		118° 10'	--	5.3	-		-5.3		7297.0		-493	+580	1,413,010 625,480
713	431		117° 35'	--	5.1	-		-5.1		7297.2		-276	+331	1,413,227 625,231 Mormon Lake-7 1/2'
714	102		-	--	4.9	-		-4.9		7297.4		-65	+78	1,413,438 624,978 Mormon Mtn.-7 1/2'
Σ	0				5.1	-		-5.1		7297.2	Σ	0	0	1,413,503 624,900
715	226		296° 10'	+12.2	5.4	TH	+1.1	-4.3		7298.0		+140	-177	1,413,643 624,723
716	556		-	-	6.4	TH	+2.8	-3.6		7298.7		+345	-436	1,413,848 624,464
717	886		-	-	7.8	TH	+4.4	-3.4		7298.9		+550	-695	1,414,053 624,205
718	1216		-	-	9.0	TH	+6.1	-2.9		7299.4		+755	-953	1,414,258 623,947

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE								
5-12-86		B. Cotcamp		J. Middleton		6834		J.M.		7	56								
AREA		TOPO MAP	STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER										
ARIZONA		MORMON Mtn. 7 1/2	AZ.	COCONINO					S. Binns										
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				
									7302.3										
719	1546		296 10	+12.2	10.6	TH	+7.7	-2.9		7299.4		+960	-1212	1,414,463	623,688				
720	1876		-	-	3.8	-		-3.8		7298.5		+1164	-1471	1,414,667	623,429				
721	2206		-	-	4.4	-		-4.4		7297.9		+1369	-1730	1,414,872	623,170				
722	2535		-	-	5.0	-		-5.0		7297.3		+1573	-1988	1,415,076	622,912				
723	2865		296 41	-	5.0	-		-5.0		7297.3		+1798	-2230	1,415,301	622,670				
724	3189		296 13 08	-	4.5	-		-4.5	-4.4	7297.9	TP	+1982	-2499	1,415,483	622,400				
724	3189				4.2	270 -		-4.2			TP	-2	-1						
	1070		122 02 32	+12.2	9.9	-		+9.9	7307.8		BS	+747	-767						
	1070				9.8	270 -		+9.8			BS	-2	-1						
725	745		126 -	-	7.7	-		-7.7		7300.1		-555	+497	1,415,673	622,129				
726	414		126 30	-	8.5	-		-8.5		7299.3		-311	+273	1,415,917	621,905				
727	83		130 -	-	8.6	-		-8.6		7299.2		-66	+51	1,416,162	621,683				
X	0				5.1	-		-5.1		7302.7	X	0	0	1,416,228	621,632				
728	250		283 05	+12.2	3.8	TH	+1.3	-2.5		7305.3		+107	-226	1,416,335	621,406				
729	569		283 50	-	7.6	BH	-2.8	-10.4		7297.4		+250	-511	1,416,478	621,121				
TP	806		287 32 30	-	6.8	-		-6.8		7301.0	TP	+400	-700	1,416,626	620,931				
TP	806				6.7	270 -		-6.7			TP	-2	-1						
	396		63 33 46	-	4.3	89 20		-4.6	-0.3	7300.7	BS	-97	-384						
	396				4.2	270 40		-4.6	-0.4		BS	-2	-1						

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-12-86		B. Cotcamp		J. Middleton		6834		J.M.		7		57			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		MORMON MTN-7 1/2		AZ.		COCONINO								S. Binns	
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
									7300.7						
730	375		50 02	+12.2	5.2	89-	+6.5	+1.3		7302.0		+175	+332	1,416,702	620,878
731	376		40 33 04	--	5.4	89-	+6.6	+1.2		7301.9	#1	+228	+299	1,416,755	620,845
731	122		10 30	--	5.0	89-	+2.1	-2.9		7297.8		+113	+47	1,416,640	620,593
732	222		229 43	+12.2	8.7	-	-	-8.7		7292.0	#	-105	-196	1,416,422	620,350
733	550		226 40	-	6.3	TH	+2.8	-3.5		7297.2		-284	-471	1,416,243	620,075
734	727		251 56	-	5.7	-	-	-5.7		7295.0		-74	-723	1,416,453	619,823
735	982		265 40	-	5.4	-	-	-5.4		7295.3		+134	-973	1,416,661	619,573
736	1287		272 25 54	-	1.3	89 55	+1.9	+0.6		7301.3	TP	+325	-1245	1,416,850	619,300
736	1287				1.2	270 05	+1.9	+0.7			TP	-2	-1		
	429	427.6	17 20 48	+12.2	5.0	94 42	+35.2	+40.2	7341.5		BS	-372	-211		
	429				4.9	265 18	+35.2	+40.1			BS	-2	-1		
737	395		14 31 48	--	3.6	95 04	-34.9	-38.5		7303.0		+351	+177	1,416,827	619,265
737	130		358-	--	6.7	94-	-9.1	-15.8		7325.7		+128	+23	1,416,604	619,111
738	195		167 30	-	6.3	90 30	-1.7	-8.0		2333.5		-195	+1	1,416,281	619,089
TP	417		169 56 46	+12.5	5.2	90 20	-2.4	-7.6			TP	-417	-18	1,416,057	619,069
TP	417				5.1	269 40	-2.4	-7.5		7334.0	TP	-2	-1		
	571		42 36 10	--	1.9	-	-	+1.9	7335.9		BS	-327	-468		
	571				1.8	270-	-	+1.8			BS	-2	-1		

1,416,740 x 620,800
y-inter. 7301

1,416,890 x 619,200
R.R. GRADE EL. 7303.0

NEAR ARRIVED PLACE

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-12-86		B. Cotcamp		J. Middleton		6834		J.M.		7		58			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		MORMON Mtn. - 7 1/2		AZ.		COCONINO								S. Binns	
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
									7335.9						
739	467		42.10	+12.5	4.5	TH	+2.3	-2.2		7333.7		+270	+381	1,415,998	618,981
740	143		29.10	--	5.9	TH	+0.7	-5.2		7330.7		+107	+95	1,415,835	618,695
Σ	0				5.1	-		-5.1		7330.8	Σ	0	0	1,415,728	618,600
741	179		211.30	--	5.1	TH	+0.9	-4.2		7331.7		-129	-124	1,415,599	618,476
742	502		216.09.04	+128	9.5	88.28	+13.4	+3.9		7339.8	TP	-330	-378	1,415,396	618,221
742	502				9.4	271.32	+13.4	+4.0			TP	-2	-1		
	415		8.16.15	--	4.0	89-	-7.2	-3.2	7336.6		BS	-387	-149		
	415				3.9	271-	-7.2	-3.3			BS	-2	-1		
743	236		317-	--	5.2	88-	+8.2	+3.0		7339.6		+204	-119	1,415,211	617,952
744	219		238.27	--	6.2	88-	+7.6	+1.4		7338.0		-70	-207	1,414,937	617,864
Σ	0				5.1	-		-5.1		7331.5	Σ	0	0	1,415,007	618,071
745	294		162.20	+128	4.8	-		-4.8		7331.8		-293	+25	1,414,714	618,096
Σ	377		152.04.16	--	4.0	-		-4.0		7332.6	Σ	-363	+98	1,414,644	618,169
746	604		161.20	--	5.9	89.20	+7.0	+1.1		7332.7		-601	+62	1,414,406	618,133
747	902		171.22	--	4.4	89.20	+10.5	+6.1		7342.7		-900	-66	1,414,107	618,005
TP	1041		172.58.34	--	3.4	88.20	+12.1	+8.7			TP	-1036	-105	1,413,969	617,965
TP	1041				3.3	270.40	+12.1	+8.8		7345.4	TP	-2	-1		
	692		20.07.40	+128	5.1	91-	+12.1	+17.2	7362.6		BS	-581	-376		
	692				5.0	269-	+12.1	+17.1			BS	-2	-1		

115-1,414,640 x -618,105
114 - INTER

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-13-86		B. Cotcamp		J. Middleton		6834		J.M.		7		59			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		MORMON Mtn. -7 1/2'		AZ.		COCONINO								S. Binns	
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
									7362.6						
748	502		22 42	+128	5.8	91-	-8.8	-14.6		7348.0		+409	+292	1,413,295	617,880
749	180		35 10	--	4.7	91-	-3.1	-2.8		7354.8		+121	+134	1,413,507	617,222
κ	0				5.1	-		-5.1		7357.5	κ	0	0	1,413,386	617,588
750	149		256 15	--	4.1	89-	+2.6	-1.5		7361.1		-2	-149	1,413,384	617,439
TP	362		219 29 28	--	4.8	89-	+6.3	+1.5		7364.1	TP	-221	-286	1,413,163	617,301
TP	362				4.8	271-	+6.3	+1.5			TP	-2	-1		
	608		48 59 06	--	+6.7	89-	-10.6	-3.9	7360.2		BS	-287	-536		
	608				+6.6	271-	-10.6	-4.0			BS	-2	-1		
751	550		48 50	--	5.6	89-	+9.6	+4.0		7364.2		+261	+484	1,413,135	617,248
752	257		58 30	--	6.8	89-	+4.5	-2.3		7357.9		+82	+243	1,412,956	617,007
κ	0				5.1	-		-5.1		7355.1	κ	0	0	1,412,874	616,764
753	30		339 30	--	6.3	89-	+0.5	-5.8		7354.4		+30	-4	1,412,904	616,760
754	357		313 15	--	6.0	89 40	+2.1	-3.9		7356.3		+296	-199	1,413,170	616,565
TP	507		313 00 24	+13.1	1.9	-		-1.9			TP	+421	-283	1,413,293	616,480
TP	507				1.8	270-		-1.8		7358.4	TP	-2	-1		
	234		120 35 50	--	+9.3	88 40	-5.4	+3.9	7362.3		BS	+162	-169		
	234				+9.3	271 26	-5.4	+3.9			BS	-2	-1		
755	64		119 35	--	4.4	89-	+1.1	-3.3		7359.0		-43	+47	1,413,410	616,357
κ	0				5.1	-		-5.1		7357.2	κ	0	6	1,413,453	616,310
756	263		315 -	--	4.4	91-	-4.6	-9.0		7353.3		+223	-139	1,413,626	616,171

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
5-13-86		B. Cotcamp		J. Middleton		6834		J.M.		7		60				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
ARIZONA		MORMON Mtn.-72		AZ.		COCONINO								S. B. HANS		
STATION NO. 754	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH - LAT.	EAST + WEST - DEP.	COORDINATES		REMARKS
														Y	X	
									7362.3							
TP	372		314 09 34	+13.1	8.7	90 32	-3.4	-12.2		7350.1	TP	+313	-201	1,413.764	616.108	
TP	372				7.9	90 40	-4.3	-12.2			TP	-2	-1			
	277		149 45 46	--	+2.8	-		+2.8		7352.9	BS	+265	-82			
	277				+2.7	270-		+2.7			BS	-2	-1			
757	80		114 -	-	2.1	-		-2.1		7350.8		-48	+64	1,413,929	616,089	
X	0				5.1	-		-5.1		7342.8	X	0	0	1,414,027	616,025	
758	259		338 -	--	5.1	TH	+1.3	-3.8		7349.1		+256	-40	1,414,283	615,985	
TP	464		337 23 03	-	4.4	-		-4.4			TP	+458	-77	1,414,483	615,947	
TP	464				4.3	270-		-4.3		7348.6	TP	-2	-1			
	338		123 57 46	+13.1	+10.7	88 -	-11.8	-1.1		7347.5	BS	+247	-230			
	338				+10.6	272 -	-11.8	-1.2			BS	-2	-1			
759	216		126 25	--	6.5	87 -	+3.8	-2.7		7344.8		-164	+140	1,414,564	615,856	
X	0				5.1	-		-5.1		7342.4	X	0	0	1,414,728	615,716	
760	96		295 -	--	5.8	89 30	+0.8	-5.0		7342.5		+59	-76	1,414,282	615,640	
761	425		285.15	--	6.3	89 40	+2.5	-3.8		7343.7		+202	-374	1,414,930	615,342	
TP	457		291 39 27	--	8.3	89 40	+2.7	-5.6			TP	+261	-375	1,414,987	615,340	
TP	457				8.2	270 20	+2.7	-5.5		7342.0	TP	-2	-1			
	642	640.9	144 08 20	-	+7.0	86 38	-37.7	-30.7		7311.3	BS	+591	-248			
	642				+6.9	273 22	-37.7	-30.8			BS	-2	-1			

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
5-13-86		B. Cotcamp		J. Middleton		6834		F.M.		7		61				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
ARIZONA		Mormon mtn-7 1/2'		AZ.		Cochino								S. Binns		
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
									7311.3							
762	359		144 05'	+13.1	4.8	87 50	+13.6	+8.8		7320.1		-331	+139	1,415,245	615,230	62'- false tree
763	41		134 50	-	5.3	87 50	+1.6	-3.7		7307.6		-35	+22	1,415,541	615,113	
TP	0				5.1	-		-5.1		7306.2	TP	0	0	1,415,516	615,091	
764	284		258 08	-	6.2	92 08	-10.6	-16.8		7294.5		+6	-284	1,415,582	614,807	
TP	481		253 25 52	-	9.7	90 20	-2.8	-12.5		7298.8	TP	-29	-480	1,415,545	614,610	y=1,415,545 x=614,610 T-TRAIL
TP	481				9.7	269 40	-2.8	-12.5			TP	-2	-1			Horiz y = -57 CORR. X = -35
	440		356 03 12	+12.8	6.9	87 -	-23.0	-16.1	7282.7		BS	-434	-68			
	440				6.8	273 -	-23.0	-16.2			BS					
765	319		349 35'	-	6.1	87 10	+15.8	+9.7		7292.4		+319	+2	1,415,430	614,544	
TP	0				5.1	-		-5.1		7277.6	TP	0	0	1,415,111	614,542	
766	20		253 -	--	5.1	95 -	-1.7	-6.8		7275.9		-1	-20	1,415,110	614,522	
767	339		212 44 -	--	10.0	94 44	-28.0	-38.0		7244.7		-237	-242	1,414,824	614,300	
TP	512	510.5	210 41 24	--	11.9	94 20	-38.7	-50.6		7232.1	TP	-370	-351	1,414,741	614,191	
TP	512				11.8	265 40	-38.7	-50.5			TP					
	375		346 09 30	+12.4	1.0	88 32	-9.6	-8.6	7223.5		BS	-375	+9			
	375				0.9	271 28	-9.6	-8.7			BS					
768	241		343 40	--	5.9	88 -	+8.4	+2.5		7226.0		+240	-17	1,414,606	614,183	
TP	0				5.1	-		-5.1		7218.4	TP	0	0	1,414,366	614,200	
769	50		192 40	--	6.2	92 -	-1.7	-7.9		7215.6		-45	-21	1,414,321	614,179	
770	380		199 50	-	5.0	91 32	-10.2	-15.2		7208.3		-321	-203	1,414,045	613,997	

SURVEY NOTES-HIGH RESOLUTION DATA
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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-13-86		B. Cotcamp		J. Middleton		6834		J.M.		7		62			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		MORMON Mtn-7 1/2		AZ.		COCONINO								S. Binns	
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
									7223.5						
TP 801			198 30 45	+12.4	3.3	91 -	-14.0	-17.3		7206.2	TP	-687	-411	1,413,679	613,789
TP 801					3.2	269 -	-14.0	-17.2			TP				
	140		41 26 39	-	2.8	-		+2.8	7209.0		BS	-83	-113		
	140				2.7	270 -		+2.7			BS				
771	255		44 25	-	6.2	89 04	+4.2	-2.0		7207.0		+140	+213	1,413,736	613,889
π	0				5.1	-		-5.1		7203.9	π	0	0	1,413,596	613,676
772	92		268 10	-	5.2	94 20	-7.0	-12.2		7196.8		+17	-90	1,413,613	613,586
773	422		258 15	-	5.9	93 10	-23.3	-29.2		7179.8		+5	-422	1,413,601	613,254
774	751		257 40	-	5.0	92 30	-32.8	-37.8		7171.2		+1	-751	1,413,597	612,925
TP 795	794.1		257 30 38	+12.1	1.8	92 40	-37.0	-38.8		7170.2	TP	-5	-794	1,413,591	612,882
TP 795					1.7	267 20	-37.0	-38.7			TP				
	304	303.1	90 07 26	-	12.0	85 32	-23.7	-11.7	7158.5		BS	+64	-296		
	304				11.9	274 28	-23.7	-11.8			BS				
775	34		138 10	-	6.0	91 10	-0.7	-6.7		7151.8		-30	+17	1,413,625	612,603
π	0				5.1	-		-5.1		7153.4	π	0	0	1,413,655	612,586
776	300		283 05	+12.1	4.4	96 -	-31.4	-35.8		7122.5		+128	-271	1,413,783	612,315
TP 434	431.8		284 01 58	-	4.2	95 50	-44.1	-48.3		7110.2	TP	+190	-388	1,413,845	612,198
TP 434					4.1	264 10	-44.1	-48.2			TP				
	328		124 22 22	-	2.0	87 -	-17.2	-15.2	7095.0		BS	+237	-226		
	328				1.9	273 -	-17.2	-15.3			BS				

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-13-86		B. Cotcamp		J. Middleton		6834		J.M.		7		63			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZ.		MORMON Mtn. -7 1/2'		AZ.		COCONINO								S. Binns	
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
									7095.0						
777	130		132 25	+12.1	6.3	87 14	+6.3	00		7095.0		-106	+75	1,413,926	612,047
π	0				5.1	-		-5.1		7089.9	π	0	0	1,414,082	611,972
778	201		297 20	--	6.2	94 50	-16.9	-23.1		7071.9		+128	-155	1,414,210	611,817
TP	359	357.7	294 01	--	3.0	94 50	-30.2	-33.2		7061.8	TP	+211	-289	1,414,293	611,683
TP	359				3.0	265 10	-30.2	-33.2			TP				
	229	227.1	38 42 09	+12.1	1.4	82 40	-29.2	-27.8	7034.0		BS	-144	-176		
	229				+1.3	277 20	-29.2	-27.9			BS				
779	186		353 50	--	5.9	83 40	+20.5	+14.6		7048.6		+185	+19	1,414,334	611,526
π	0				5.1	-		-5.1		7028.9	π	0	0	1,414,149	611,507
780	122		221 10	--	5.6	95 10	-11.0	-16.6		7017.4		-73	-98	1,414,076	611,409
781	452	450.2	224 27 44	--	8.6	95 10	-40.7	-49.3		6984.7	TP	-248	-376	1,413,901	611,131
781	452				8.5	244 50	-40.7	-49.2			TP				sta.
	220	219.3	74 06 18	--	6.6	85 30	-17.3	-10.7	6974.0		BS	-15	-219		
	220				+6.5	274 30	-17.3	-10.8			BS				
π	0				5.1	-		-5.1		6968.9	π	0	0	1,413,886	610,912
782	112		289 16	--	5.3	91 -	-2.0	-7.3		6966.7		+58	-96	1,413,944	610,816
TP	293		284 50 40	+11.8	11.6	93 20	-17.0	-28.6		6945.4	TP	+131	-261	1,414,017	610,651
TP	293				11.6	266 40	-17.0	-28.6			TP				
	276		86 56 47		+13.4	-		+13.4	6958.8		BS	+42	-273		
	276				+12.0	BH	+1.4	+13.4			BS				

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-14-86		B. C. Camp		R. Middleton		6834		J.M.		7		64			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		MORMON mtn. - 7 1/2'		AZ.		COCONINO								S. Binns	
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									6958.8						
783	203		81° 50'	+11.8	5.1	91° 50'	-6.5	-11.6		6947.2		-13	+203	1,414,046	610,581
π	0				5.1	-		-5.1		6953.7	π	0	0	1,414,059	610,378
784	128		321° 50'	-	5.0	86° 20'	+8.2	+3.2		6962.0		+115	-57	1,414,124	610,321
785	458		326° 05'	--	4.7	86° 10'	+30.6	+25.9		6984.7		+424	-172	1,414,483	610,206
TP	575	573.7	325° 57'	--	4.4	86° 10'	+38.4	+34.0		6992.8	TP	+530	-220	1,414,589	610,158
TP	575				4.3	273° 50'	+38.4	+34.1			TP				
	641	638.9	133° 08' 41"	+11.8	4.8	94° 40'	+52.2	+57.0	7049.8		BS	+523	-367		
	641				4.7	265° 20'	+52.2	+56.9			BS				
786	428		133° -	-	6.2	95° -	-37.3	-43.5		7006.3		-350	+247	1,414,262	610,038
787	101		140° -	--	6.2	96° 42'	-11.8	-18.0		7031.8		-89	+48	1,415,023	609,839
π	0				5.1	-		-5.1		7044.7	π	0	0	1,415,112	609,791
788	286		227° 23' 27"	--	2.1	91° -	-5.0	-7.1		7042.7	TP	-146	-246	1,414,966	609,545
788	286				2.1	269° -	-5.0	-7.1			TP				
	459		34° 28' 58"	+11.8	4.2	92° -	+16.0	+20.2	7062.9		BS	-317	-332		
	459				4.1	268° -	+16.0	+20.1			BS				
π	303		38° 22' 42"	--	6.0	92° 10'	-11.5	-17.5		7045.4		+194	+233	1,414,843	609,446
789	135		45° -	--	4.8	92° -	-4.7	-9.5		7053.4		+74	+113	1,414,223	609,326
π	0				5.1	-		-5.1		7052.8	π	0	0	1,414,649	609,213
790	200		261° 40'	--	3.5	-		-3.5		7059.4		+12	-200	1,414,661	609,013

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY			LINE NO.		PAGE		
5-14-86		B. Cotamp		J. Middleton		6834		F.M.			7		65		
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		MORMON Mtn. -7k		AZ.		COCONINO								S. Binns	
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
									7062.9						
791	532		262 01 51	+11.8	15.0	BH	-2.7	-17.7		7045.2	TP	+36	-531	1,414,685	608,682
791	532				14.9	BH 270	-2.7	-17.6			TP				
	539		58 50 50	--	3.3	87	-28.2	-24.9	7020.3		BS	-178	-508		
	539				3.2	273	-28.2	-25.0			BS				
792	210		53 40	--	5.3	86 40	+12.2	+6.9		7027.2		+87	+191	1,414,594	608,365
	0				5.1	-		-5.1		7015.2	K	0	0	1,414,507	608,174
793	126		278 -	-	4.9	95 20	-11.7	-16.6		7003.7		+43	-119	1,414,550	608,055
794	456		273 15	-	6.2	94 06	-32.6	-38.8		6981.5		+118	-440	1,414,625	607,734
TP	718	716.5	277 08 04	-	7.2	93 40	-45.9	-53.1		6967.2	TP	+233	-678	1,414,740	607,496
TP	718				7.1	266 20	-45.9	-53.0			TP				
	381		124 35 40	+11.8	2.5	87 30	-16.6	-14.1	6953.1		BS	+276	-263		
	381				2.5	272 30	-16.6	-14.1			BS				
795	324		123 35	--	6.0	87 -	+17.0	+11.0		6964.1		-231	+228	1,414,785	607,461
796	0				5.1	-		-5.1		6948.0	K	0	0	1,415,016	607,233 across sta.
797	322		285 10	-	6.2	93 -	-16.9	-23.1		6930.0		+146	-287	1,415,162	606,946
798	646		292 26 04	--	5.4	92 24	-27.1	-32.5		6920.6	TP	+363	-534	1,415,379	606,699
798	646				5.3	267 36	-27.1	-32.4			TP				
	650		126 52 10	-	2.5	88 -	-22.7	-20.2	6900.4		BS	+440	-478		
	650				2.4	272 -	-22.7	-20.3			BS				
799	329		115 50	-	5.7	87 40	+13.4	+7.7		6908.1		-201	+261	1,415,618	606,482

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-14-86		B. Cotcamp		J. Middleton		6834		F.M.		7		66			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		MORMON Mtn - 7 1/2'		AZ.		COCONINO								S. BINNS	
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
									6900.4						
800	0				5.1	-		-5.1		6895.3	X	0	0	1,415.819	606,221
IF	71		296 25 15	+11.8	5.7	91-	-1.2	-6.9		6893.5		+44	-56	1,415.863	606,165
801	329		294 10	--	6.7	91-	-5.7	-12.4		6888.0		+193	-266	1,416,012	605,955
802	659		294 38	--	6.2	91 06	-12.7	-18.9		6881.5		+391	-530	1,416,210	605,691
TP	912		291 34 36	-	5.4	91 06	-17.5	-22.9		6877.5	TP	+502	-761	1,416,321	605,460
TP	912				5.3	268 54	-17.5	-22.8			TP				
	470		80 11 48	+11.8	9.9	88-	-16.4	-6.5	6871.0		BS	+16	-469		
	470				9.8	272-	-16.4	-6.6			BS		-1		
803	401		80 05	-	6.3	88 14	+12.4	+6.1		6877.1		-13	+401	1,416,324	605,391
804	101		102-	--	5.9	86-	+7.0	+1.1		6872.1		-41	+92	1,416,296	605,082
X	0				5.1	-		-5.1		6865.9	X	0	0	1,416,337	604,990
805	269		204 10	--	6.3	89 24	+2.8	-3.5		6867.5		-218	-158	1,416,119	604,832
806	537		226 14	--	6.5	90 54	-8.4	-14.9		6856.1		-284	-456	1,416,053	604,534
TP	609		221 44	-	5.9	91-	-10.6	-16.5		6854.5	TP	-362	-490	1,415,975	604,499
TP	609				5.8	269-	-10.6	-16.4			TP		-1		
	353		37 21 06	+11.8	5.6	91 30	+9.2	+14.8	6869.3		BS	-231	-267		
	353				5.5	268 30	+9.2	+14.7			BS		-1		
807	115		55 50	-	6.2	94 42	-9.4	-15.6		6853.7		+44	+106	1,415,288	604,337
IF	86		139 40 54	-	6.5	92-	-3.0	-9.5		6859.8	IF	-76	+41	1,415,668	604,272
X	0				5.1	-		-5.1		6864.2	X	0	0	1,415,744	604,231

1,415,825 x - 606,195
IF y-inter.

1,415,625 x - 604,230
IF Inter.

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-14-86		B. Cotcamp		J. Middleton		6834		J.M.		7		67			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		MORMON Mtn. - 7 1/2'		AZ.		COCONINO								S. Binns	
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
									6869.3						
808	209		217 30	+11.8	5.5	87 40	+8.5	+3.0		6872.3		-136	-158	1,415,608	604.073
809	539		- -	--	5.0	87 40	+21.9	+16.9		6886.2		-351	-409	1,415,393	603.822
TP	802	800.9	217 28 42	--	2.5	87 -	+42.0	+39.5		6908.8	TP	-523	-607	1,415,221	603.623
TP	802				2.4	273 -	+42.0	+39.6			TP		-1		
	294		56 44 14	+11.8	14.5			+14.5	6923.3		BS	-108	-274		
	294				13.1	B4	+1.5	+14.6			BS		-1		
810	259		70 40	--	9.3	91 -	-4.5	-13.8		6909.5		+34	+257	1,415,147	603.605
K	0				5.1	-		-5.1		6918.2	K	0	0	1,415,113	603.348
811	61		286 40	--	5.7	89 -	+1.1	-4.6		6918.7		+29	-54	1,415,142	603.294
812	390		278 -	--	4.4	89 -	+6.8	+2.4		6925.7		+132	-367	1,415,245	602.981
TP813	724		299 55 55	+11.4	11.4	89 -	+12.6	+1.2		6924.5	TP	+263	-674	1,415,376	602.673
TP813	724				11.3	271 -	+12.6	+1.3			TP		-1		ACROSS STA.
	1615		113 33 32	+11.4	6.0	88 20	-47.0	-41.0	41.13	6883.4	BS	+925	-1323		
	1615				5.1	271 40	-47.0	-41.3			BS		-1		
814	1284		113 15	--	7.8	88 20	+32.3	+29.5		6912.9		-730	+1056	1,415,571	602.405
815	954		- -	--	10.9	88 20	+27.7	+16.8		6900.2		-542	+785	1,415,259	602.134
Y1	648		113 47 18	--	9.8	88 36	+15.8	+6.0		6889.4	Y1	-373	+529	1,415,928	601.878
816	624		113 15	--	8.0	88 44	+13.8	+5.8		6889.2		-355	+513	1,415,946	601.862
817	294		107 24	--	6.2	88 44	+6.5	+0.3		6883.7		-142	+258	1,416,159	601.607
K	0				5.1	-		-5.1		6878.3	K	0	0	1,416,301	601.349

Y1 - 1,415,940 x - 601,970
Y1 - Inter.

SURVEY NOTES-HIGH RESOLUTION DATA
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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-14-86		B. Gotcamp		J. Middleton		6834		J.M.		7		68			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		MORMON Mtn. -7 1/2		AZ.		COCONINO								S. Binns	
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
									6883.4						
818	38		330 44	+11.4	6.9	88 44	+0.8	-6.1		6877.3		+36	-12	1,416,337	601,337
819	356		285 55	--	6.8	90 50	-5.2	-12.0		6871.4		+163	-316	1,416,464	601,033
820	686		283 20	--	8.4	91 10	-14.0	-22.4		6861.0		+287	-623	1,416,588	600,726
821	1016		282 50	--	5.9	91 10	-20.7	-26.6		6856.8		+417	-926	1,416,718	600,423
822	1346		282 44	--	6.8	90 44	-17.2	-24.0		6859.4		+550	-1228	1,416,851	600,121
TP	1445		283 01 16	--	4.5	90 50	-21.0	-25.5	254 1/2	6858.0	TP	+597	-1316	1,416,898	600,032
TP	1445				4.2	269 10	-21.0	-25.2			TP		-1		
	783		108 47 54	+11.4	6.6	88 30	-20.5	-13.9	40 1/2	6844.0	BS	+394	-677		
	783				6.4	271 30	-20.5	-14.1			BS	-2	-1		
823	554		108 -	--	7.6	88 10	+17.7	+10.1		6854.1		-272	+483	1,417,018	599,837
824	224		104 10	--	5.7	88 10	+7.2	+1.5		6845.5		-97	+202	1,417,193	599,556
K	0				5.1	-		-5.1		6838.9	K	0	0	1,417,290	599,354
825	105		285 25	+11.4	5.1	91 40	-3.1	-8.2		6835.8		+47	-94	1,417,337	599,260
71	294		299 40 55	--	6.0	91 40	-8.6	-14.6		6829.4	71	+106	-274	1,417,396	599,080
826	434		286 20	--	5.4	92 -	-15.1	-20.5		6823.5		+161	-403	1,417,451	598,951
827	764		281 10	--	8.9	92 -	-26.7	-35.6		6808.4		+293	-706	1,417,583	598,648
828	1094		282 25	--	4.8	92 26	-46.4	-51.2		6792.8		+442	-1001	1,417,732	598,353
TP	1153	1152.0	281 57 54	--	4.8	92 26	-49.0	-53.8	53 1/2	6790.3	TP	+457	-1058	1,417,745	598,295
TP	1153				4.5	267 34	-49.0	-53.5			TP	-2	-1		

Y = 1,417,396 X 599,080
T-INTER

SURVEY NOTES-HIGH RESOLUTION DATA
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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-14-86		B. Cotcamp		J. Middleton		6834		F.M.		7		69			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		MORMON mtu. - 7 1/2'		AZ.		COCONINO								S. Binns	
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
									6790.3						
	715		86° 31' 21"	+11.4	5.8	88°	-25.0	-19.2	6771.1		BS	+98	-708		
	715				5.7	272°	-25.0	-19.3			BS	-2	-1		
829	453		83° 55'	--	6.2	88°	+15.8	+9.6		6780.7		-42	+451	1,412,799	598.037
830	123		--	--	4.8	88°	+4.3	-0.5		6770.6		-11	+122	1,412,830	597.708
π	0				5.1			-5.1		6766.0	π	0	0	1,417,841	597.586
831	207		269° 35'	+11.4	6.5	91° 40'	-6.0	-12.5		6758.6		+39	-203	1,412,880	597.383
832	536		273° 25'	--	6.2	92° 20'	-21.8	-28.0		6743.1		+137	-518	1,412,928	597.068
833	865		273° 05'	--	11.4	92° 20'	-35.2	-46.6		6724.5		+216	-838	1,418,052	596.748
834	1192		271° 55'	--	6.2	92° 34'	-53.4	-59.6		6711.5		+275	-1160	1,418,116	596.424
TP	1262	1260.7	273° 24' 36"	--	5.4	92° 34'	-56.5	-61.9	24.87	6709.3	TP	+322	-1219	1,418,161	596.366
TP	1262				5.1	267° 26'	-56.5	-61.6			TP	-2	-1		
	1318		117° 14' 54"	+11.4	12.6	88° 44'	-29.1	-16.5	16.63	6692.7	BS	+823	-1029		
	1318				12.3	271° 16'	-29.1	-16.8			BS	-2	-1		
835	1069		116° 30'	--	6.3	89°	+18.7	+12.4		6705.1		-657	+844	1,418,325	596.180
836	739		115° 30'	--	6.1	89°	+12.9	+6.8		6699.5		-444	+591	1,418,538	595.927
837	410		116° 30'	--	6.6	89°	+7.2	+0.6		6693.3		-252	+324	1,418,730	595.660
#1	206		116° 07' 14"	--	6.3	89°	+3.6	-2.7		6690.0	#1	-125	+163	1,418,857	595.499
838	82		116° 10'	-	7.0	89°	+1.4	-5.6		6687.1		-50	+65	1,418,932	595.401
π	0				5.1			-5.1		6687.6	π	0	0	1,418,982	595.336
839	267		241° 34'	-	8.8	89° 40'	+1.6	-7.2		6685.5	#	-78	-255	1,418,904	595.081

1-1118885x-595.500
T-inter

SURVEY NOTES-HIGH RESOLUTION DATA

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE							
5-14-84		B. Cotcamp		J. M. Adleton		6834		F.M.		7		70							
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER					
ARIZONA		MORMON MTS. - 7 1/2'		AZ.		COCONINO								S. Binns					
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS & TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS	
												LAT.	DEP.	Y	X				
									6692.7										
840	597		241 34	+11.4	8.8	87 40	+24.3	+15.5		6708.2		-175	-571	1,418,807	594,765				
841	927		-	--	8.0	87 -	+48.5	+40.5		6733.2		-272	-886	1,418,710	594,450				
842	1257		-	--	7.9	86 40	+73.1	+65.2		6757.9		-368	-1202	1,418,614	594,134				
843	1586		240 57	--	6.8	86 50	+87.6	+80.8		6773.5		-481	-1511	1,418,501	593,825				
TP	1702	1699.5	240 05 40	--	4.4	86 54	+92.0	+87.6	+87.6	6780.4	TP	-539	-1612	1,418,441	593,723				
TP	1702				4.1	273 06	+92.0	+87.9			TP	-2	-1						
	676		49 24 12	+11.4	8.7	TM	-3.4	+5.3		6785.7	BS	-336	-590						
	676				8.6	TM 270	-3.4	+5.2			BS	-2	-1						
844	466		48 40	--	6.8	89 10	+6.8	0.0		6785.7		+233	+404	1,418,342	593,536				
845	137		45 -	--	5.1	89 10	+2.0	-3.1		6782.6		+76	+114	1,418,185	593,246				
π	0				5.1	-		-5.1		6780.6	π	0	0	1,418,109	593,132				
846	196		249 05	--	6.7	90 30	-1.7	-8.4		6777.3		-32	-193	1,418,077	592,939				
TP	500		246 54 35	--	4.6	91 10	-10.2	-14.8		6770.9	TP	-101	-490	1,418,006	592,641				
TP	500				4.6	268 50	-10.2	-14.8			TP	-2	-1						
	696		97 36 04	+11.2	4.5	88 -	-24.3	-19.8		6751.1	BS	+223	-659						
	696				4.4	272 -	-24.3	-19.9			BS	-2	-1						
847	660		96 50	--	4.3	88 -	+23.0	+18.7		6769.8		-204	+628	1,418,023	592,609				
848	330		98 -	--	6.2	88 -	+11.5	+5.3		6756.4		-109	+312	1,418,118	592,293				
849	0				5.1	-		-5.1		6746.0	π	0	0	1,418,227	591,981				

SURVEY NOTES-HIGH RESOLUTION DATA
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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
5-14-86		B. Cotcamp		J. M. Adleton		6834		F.M.		7	71				
AREA		TOPO MAP	STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER						
ARIZONA		MORMON Mtn - 7 1/2'	AZ.	COCONINO					S. Binns						
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
									6751.1						
850	325		282° 57'	+11.2	5.2	91° -	-5.7	-10.9		6740.2	TP	+133	-297	1,418,358	591,683
850	325				5.2	269° -	-5.7	-10.9			TP	-2	-1		
	498		85° 07' 28"	--	+1.5	88° -	-17.4	-15.9	6724.3		BS	+55	-495		
	498				+1.4	272° -	-17.4	-16.0			BS	-2	-1		
851	168		87° 20'	--	6.6	87° -	+8.8	+2.2		6726.5		-25	+166	1,418,386	591,353
	0				5.1	-		-5.1		6719.2	TP	0	0	1,418,411	591,187
852	179		308° 46'	-	5.2	88° 46'	+3.9	-1.3		6723.0		+137	-115	1,418,548	591,072
853	509		310° 20'	--	7.0	89° 06'	+8.0	+1.0		6725.3		+399	-317	1,418,810	590,870
854	836		309° 10'	--	7.0	89° 30'	+7.3	+0.3		6724.6		+644	-533	1,419,055	590,654
TP	902		309° 39' 20"	--	6.2	89° 30'	+7.9	+1.7	6183	6726.1	TP	+700	-569	1,419,109	590,617
TP	902				5.9	270° 30'	+7.9	+2.0			TP	-2	-1		
	301		87° 32' 16"	+11.2	+0.4	89° -	-5.3	-4.9	6721.2		BS	+46	-297		
	301				+0.3	271° -	-5.3	-5.0			BS	-2	-1		
855	29		72° 50'	--	5.0	89° -	+0.5	-4.5		6716.7		+3	+29	1,419,156	590,348
	0				5.1	-		-5.1		6716.1	TP	0	0	1,419,153	590,319
856	293		233° 40'	-	9.7	91° 14'	-6.3	-16.0		6705.2		-124	-265	1,419,229	590,054
857	622		234° 40'	-	6.1	91° 14'	-13.4	-19.5		6701.7		-254	-568	1,418,899	589,751
TP	911		234° 13' 16"	-	6.0	91° 14'	-19.6	-25.6		6695.6	TP	-379	-828	1,418,772	589,490
TP	911				7.1	91° 10'	-18.5	-25.6			TP	-2	-1		

SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

DATE	5-14-86	INSTRUMENT MAN	B. Cotcamp	ROD MAN	J. Middleton	PARTY NUMBER	6834	NOTES CHECKED BY	F.M.	LINE NO.	7	PAGE	72	
AREA	ARIZONA	TOPO MAP	MORMON Mtn. 7 1/2'	STATE	AZ.	COUNTY	COCONINO	TWP		RANGE		PPM	PARTY MANAGER	S. Binns

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				
									6695.6										
	1014		70 35 45	+11.2	4.8	88 34	-25.4	-20.6	20736674.9		BS	-145	-1003						
	1014				+4.5	271 26	-25.4	-20.9		BS		-2	-1						
858	964		69 32	-	6.8	88 20	+28.0	+21.2		6696.1		+155	+951	1,418,780	589,437				
859	634		- -	--	6.0	88 20	+18.4	+12.4		6687.3		+102	+626	1,418,227	589,112				
860	304		- -	--	7.4	88 20	+8.8	+1.4		6676.3		+49	+300	1,418,674	588,786				
861	124		341 55	--	6.4	87 -	+6.5	+0.1		6675.0		+123	-15	1,418,748	588,471				
π	0				5.1	-		-5.1		6669.8	π	0	0	1,418,625	588,486				
862	444		321 20	+11.2	5.6	89 40	+2.6	-3.0		6671.9		+394	-205	1,419,019	588,281				
TP	644		319 04 52	--	14.4	89 40	+3.7	-10.7	29936634.3		TP	+559	-319	1,419,182	588,166				
TP	644				14.3	270 20	+3.7	-10.6		TP		-2	-1						
	1328		108 14 02	--	+4.2	88 32	-34.0	-29.8			BS	+652	-1156						
	1328				+3.9	271 28	-34.0	-30.1			BS	-2	-1						
863	1208		107 05	--	5.2	88 32	+30.9	+25.7		6660.0		-572	+1064	1,419,260	588,073				
864	878 878		106 45	--	7.6	88 32	+22.5	+14.9		6649.2		-412	+776	1,419,420	587,785				
865	548		107 35	-	6.9	88 32	+14.0	+7.1		6641.4		-264	+480	1,419,568	587,489	Mormon mtn 7 1/2'			
866	218		107 -	-	6.0	87 32	+9.4	+3.4		6637.7		-103	+192	1,419,229	587,201	Mundo's PARK 7 1/2'			
π	0				5.1	-		-5.1		6629.2	π	0	0	1,419,832	587,069				
867	114		302 05	+11.2	6.0	91 -	-2.0	-8.0		6626.3		+78	-83	1,419,910	586,926				
868	442		302 30	-	5.0	92 42	-20.8	-25.8		6608.5		+305	-320	1,420,137	586,689				

SURVEY NOTES-HIGH RESOLUTION DATA

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-14-86		B. Cotcamp		J. Middleton		6834		F.M.		7		73			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZ.		MUNDS Park-7 1/2		AZ.		COCONINO								S. Binns	
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
									6634.3						
TP 634			307 19 48	+11.2	5.0	92 52	-31.7	-36.7		6597.6	TP	+474	-419	1,420,304	586,589
TP 634					4.9	267 08	-31.7	-36.6			TP	-2	-1		
	497		134 55 11	+11.4	0.7	88 -	-17.3	-16.6	6581.0		BS	+413	-275		
	497				0.6	272 -	-17.3	-16.7			BS	-2	-1		
869	365		134 30	-	6.2	87 30	+15.9	+9.7		6590.7		-302	+205	1,420,413	586,518
870	37		104 50	-	5.1	87 30	+1.6	-3.5		6577.5		-16	+33	1,420,699	586,346
π	0				5.1	-		-5.1		6575.9	π	0	0	1,420,715	586,313
871	290		299 55	+11.4	6.6	91 30	-7.6	-14.2		6566.8		+191	-218	1,420,906	586,095
872	619		296 40	--	6.3	91 40	-18.0	-24.3		6556.7		+382	-487	1,421,997	585,826
873	949		295 55	--	8.4	91 40	-27.6	-36.0		6545.0		+575	-755	1,421,290	585,558
874	1277		295 58 21	~	9.7	92 -	-44.6	-54.3	6542.3	6526.8	TP	+775	-1014	1,421,488	585,298
874	1277				9.4	268 -	-44.6	-54.0			TP	-2	-1		Across Sta.
	991		123 51 56	-	1.5	-		+1.5	6528.3		BS	+704	-697		
	991				1.4	270 -		+1.4			BS	-2	-1		
875	660		122 50	--	8.4	-		-8.4		6519.9		-460	+473	1,421,730	585,073
876	330		-	--	5.6	-		-5.6		6522.7		-230	+236	1,421,960	584,836
877	0				5.1	-		-5.1		6523.2	π	0	0	1,422,190	584,600
878	330		303 05	+11.4	4.8	91 30	-8.6	-13.4		6514.9		+231	-235	1,422,421	584,365
879	660		--	~	5.0	91 30	-17.3	-22.3		6506.0		+462	-471	1,422,652	584,129
880	996		--	-	5.3	91 30	-25.9	-31.2		6497.1		+694	-706	1,422,884	583,894

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE							
5-14-86		B. Cotcamp		J. Middleton		6834		F.M.		7		74							
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER					
ARIZONA		MUNOS PARK-7 1/2'		AZ.		COCONINO								S. Binns					
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				
									6528.3										
881	1320		303 05	+11.4	6.2	91 30	-34.6	-40.8		6487.5		+925	-942	1,423,115	583,658				
882	1650		- -	-	6.2	91 30	-43.2	-49.4		6478.9		+1156	-1177	1,423,346	583,423				
TP	1774		302 33 03	-	5.2	91 38	-50.6	-55.8	-55.7	6472.6	TP	+1232	-1278	1,423,420	583,321				
TP	1774				4.9	268 22	-50.6	-55.5			TP	-2	-1						
	870		76 00 18	+11.8	+2.2	90 44	+11.1	+13.3		6485.9	BS	-33	-869						
	870				+2.1	269 16	+11.1	+13.2			BS	-2	-1						
883	660		75 35	-	5.4	91 -	-11.5	-16.9		6469.0		+30	+659	1,423,415	583,110				
Bm	440		75 -	-	4.7	89 30	+3.8	-0.9		6485.0	Bm	+25	+439	1,423,410	582,890				y = -1,423,410 x = 582,890 m = 345 1959 u.s.c. 16.5 EL. 6485.0
884	330		75 35	-	8.5	91 40	-9.6	-18.1		6467.8		+15	+330	1,423,400	582,781				Horiz. y = -46 CORR. x = -31
885	0				5.1	-	-	-5.1		6480.8	TP	0	0	1,423,385	582,451				
886	325		235 45	+11.8	5.9	89 10	+4.7	-1.2		6484.7		-124	-300	1,423,261	582,151				
887	643		223 20	-	6.4	89 14	+8.6	+2.2		6488.1		-368	-528	1,423,017	581,923				
TP	780		217 25 40	-	5.3	89 30	+6.8	+1.5			TP	-509	-591	1,422,876	581,860				prop. y
TP	780				5.2	270 30	+6.8	+1.6		6487.5	TP								prop. y - inter. EL. 6488.0
	1157		343 36 16	+12.2	4.0	B.M.	+5.8	+9.8			BS	-1154	+85						
	1157				+0.3	90 28	+9.4	+9.7		6497.2	BS								
888	987		341 -	-	10.1	-	-	-10.1		6487.1		+980	-117	1,422,702	581,828				
889	659		342 05	-	8.7	-	-	-8.7		6488.5		+656	-66	1,422,328	581,879				
890	330		344 20	-	7.1	-	-	-7.1		6490.1		+329	-20	1,422,051	581,925				
891	0				5.1	-	-	-5.1		6492.1	TP	0	0	1,421,722	581,945				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-16-86		B. Cotcamp		J. Middleton		6834		F.M.		7		75			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		MUNOS PARK-7 1/2		AZ.		COCONINO								S. Binns	
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
									6497.2						
892	330		193 20	+12.2	5.3	-		-5.3		6491.9		-298	-142	1,421,424	581,803
893	659		196 55	--	9.8	BH	-3.3	-13.1		6484.1		-576	-321	1,421,446	581,624
TP	723		199 42 24	~	11.2	BH	-3.6	-14.8		6482.4	TP	-614	-382	1,421,108	581,563
TP	723				11.1	BH 20	-3.6	-14.7			TP				
	1028		32 43 24	+12.5	1.6	-		+1.6			BS	-724	-730		
	1028				1.5	270	-	+1.5	6483.9		BS				
894	768		32 33	--	5.9	-		-5.9		6478.0		+543	+544	1,420,927	581,377
895	438		29 50	--	5.5	-		-5.5		6478.4		+324	+295	1,420,708	581,128
896	111		36 20	--	8.0	-		-8.0		6475.9		+73	+84	1,420,457	580,917
X	0				5.1	-		-5.1		6478.8	X	0	0	1,420,384	580,833
IF	102		157 36 06	+12.5	6.8	-		-6.8		6477.1	IF	-100	+18	1,420,284	580,851
897	239		177 05	--	9.2	-		-9.2		6474.7		-236	-40	1,420,148	580,793
898	569			--	11.8	BH	-2.8	-14.6		6469.3		-561	-95	1,419,823	580,738
899	888		178 50	--	5.4	91	-15.5	-20.9		6463.0		-871	-175	1,419,513	580,658
TP	948		179 04 20	-	11.0	90 50	-13.8	-24.8		6459.1	TP	-929	-190	1,419,455	580,643
TP	948				10.9	269 16	-13.8	-24.7			TP				
	712	709.5	35 42 22	+12.5	13.6	85 14	-59.2	-45.6			BS	-473	-529		
	712				13.5	274 46	-59.2	-45.7	6413.4		BS				
900	433		34 40	--	7.3	85 46	+32.7	+25.4		6438.8		+294	+318	1,419,276	580,432
901	169		21 55	-	4.9	83 30	+12.3	+7.4		6420.8		+90	+62	1,419,072	580,176

Y=1,420,300 X=580,810
T-Inter.

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
5-16-86		B. Cotcamp		J. Middleton		6834		J.M.		7		76			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		MUNOS PARK-74		AZ.		COCONINO								S.B. WNS	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH+ SOUTH-	EAST+ WEST-		Y
									6413.4						
π	0				5.1	-		-5.1		6408.3	π	0	0	1,418,982	580,114
902	229		238	+12.5	6.5	90 30	-2.0	-8.5		6404.9		-76	-216	1,418,906	579,898
903	558		239 55	-	7.2	91 20	-13.0	-20.2		6393.2		-169	-532	1,418,813	579,582
904	888		240 40	--	10.8	91 20	-20.7	-31.5		6381.9		-257	-850	1,418,725	579,264
905	1217		241	--	12.8	91 20	-28.3	-41.1		6372.3		-346	-1167	1,418,636	578,947
TP	1410		239 18 26	-	2.8	91 36	-39.4	-42.2		6371.2	TP	-440	-1339	1,418,542	578,775
TP	1410				2.7	268 24	-39.4	-42.1			TP				
	610		51 42 18	+12.5	12.3	89 10	-8.9	+3.4			BS	-265	-549		
	610				+12.2	270 50	-8.9	+3.3	6374.5		BS				
906	478		51 45	--	9.0	89 10	+2.0	-2.0		6372.5		+208	+431	1,418,485	578,657
907	164		71 30	--	7.1	91 40	-4.8	-11.9		6362.6		+17	+163	1,418,294	578,389
π	0				5.1	-		-5.1		6369.4	π	0	0	1,418,277	578,226
908	176		223	--	11.3	93 40	-11.3	-22.6		6351.9		-100	-145	1,418,177	578,081
909	503		224	--	5.6	93	-26.3	-31.9		6342.6		-278	-419	1,417,999	577,807
910	832		221 50	+12.5	8.0	92 30	-36.3	-44.3		6330.2		-485	-676	1,417,792	577,550
911	1160		223 15	--	6.8	92 10	-43.9	-50.7		6323.8		-653	-959	1,417,624	577,267
TP	1226	1225.1	223 38 30	--	6.1	92 10	-46.4	-52.5		6322.0	TP	-683	-1017	1,417,594	577,209
TP	1226				6.0	267 50	-46.4	-52.4			TP				
	434		76 27 12	-	+11.5	88	-15.1	-3.6	6318.4		BS	-8	-434		
	434				+11.4	272	-15.1	-3.7			BS				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
5-16-86		B. Cotcamp		J. Middleton		6834		F.M.		7		77				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
ARIZONA		MUNDS PARK-7 1/2		AZ.		COCONINO								S.B. NNS		
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
									6318.4							
IF	384		76° 42' 30"	+12.5	11.9	87° 50'	+14.5	+2.6		6321.0		+5	+384	1,412,591	577,159	6321.0
912	176		88° 50'	--	5.9	88° 20'	+5.1	-0.8		6317.6		-35	+173	1,412,551	576,948	
π	0				5.1	-		-5.1		6313.3	π	0	0	1,417,586	576,775	
913	154		275° 30'	--	5.7	90° 46'	-1.8	-7.5		6310.9		+48	-146	1,412,634	576,629	
914	484		279° 05'	--	6.5	90° 16'	-2.3	-8.8		6309.6		+178	-450	1,412,764	576,325	
915	760		269° 15'	--	6.5	90° 16'	-3.5	-10.0		6308.4		+155	-744	1,412,741	576,031	
TP	733		261° 58' 14"	-	9.5	90° 16'	-3.4	-12.9			TP	+57	-731	1,417,643	576,044	
TP	733				8.7	90° 20'	-4.3	-13.0		6305.4	TP					
	457		29° 51' 34"	+12.5	5.7	TH	-2.3	+3.4			BS	-338	-308			
	457				5.6	TH 20	-2.3	+3.3	6308.7		BS					
916	206		28° 50'	--	5.1	89° -	+3.5	-1.6		6307.1		+150	+132	1,412,455	575,868	
π	0				5.1	-		-5.1		6303.6	π	0	0	1,417,305	575,736	
917	204		284° 50'	--	4.1	89° -	+3.6	-0.5		6308.2		+94	-181	1,412,399	575,555	
918	531		281° 55' 33"	--	5.2	89° 32'	+4.3	-0.9		6307.8	TP	+220	-483	1,417,525	575,253	
918	531				5.2	290° 28'	+4.3	-0.9			TP					
	1016		115° 46' 24"	-	0.2	BH	+5.1	+5.3			BS	+629	-798			
	1016				0.1	BH 20	+5.1	+5.2	6313.0		BS					
919	711		106° 30'	-	5.3	-		-5.3		6307.7		-345	+622	1,412,809	575,077	
920	454		85° 40'	-	5.4	TH	+2.3	-3.1		6309.9		-64	+449	1,418,090	574,904	
921	159		61° 50'	-	8.1	-		-8.1		6304.9		+43	+153	1,418,197	574,608	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	5-16-86	INSTRUMENT MAN	B. Cotcamp	ROD MAN	J. Middleton	PARTY NUMBER	6834	NOTES CHECKED BY	J.M.	LINE NO.	7	PAGE	28	
AREA	ARIZONA	TOPO MAP	MUNDS PARK-7 1/2	STATE	AZ.	COUNTY	COCONINO	TWP		RANGE		PPM	PARTY MANAGER	S. Binns

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				
									6313.0										
#	128		64 37 35	+12.5	4.7	91 28	-3.3	-8.0		6305.0	#	+29	+125	1,418,183	574,580				
K	0				5.1	-		-5.1		6307.9	K	0	0	1,418,154	574,455				
922	163		257 20	--	7.0	85 10	+13.7	+6.7		6319.7		±0	-163	1,418,154	574,292				
923	451		293 10	--	0.0	86 20	+28.8	+28.8		6341.8		+263	-366	1,418,417	574,089				
924	780		297 25	-	3.0	86 14	+51.2	+48.2		6361.2		+501	-598	1,418,655	573,857				
TP	991	988.7	296 23	-	7.0	86 06	+67.4	+60.4		6373.4	TP	+621	-770	1,418,775	573,685				
TP	991				6.9	273 54	+67.4	+60.5			TP								
	179	176.8	42 10 58	+12.5	14.6	99 .	+28.0	+42.6			BS	-102	-144						
	179				+14.5	261 -	+28.0	+42.5	6415.9		BS								
925	91		11 17	--	11.0	105 30	-24.3	-35.3		6380.6		+83	+37	1,418,256	573,578				
K	0				5.1	-		-5.1		6410.8	K	0	0	1,418,673	573,541				
926	261		232 10	-	7.0	90 30	-2.3	-9.3		6406.6		-112	-236	1,418,561	573,305				
927	570		236 45	-	5.6	88 .	+19.9	+14.3		6430.2		-202	-533	1,418,471	573,008				
TP	631	630.3	234 37 03	-	9.8	87 18	+29.7	+19.9		6435.8	TP	-245	-581	1,418,428	572,960				
TP	631				9.7	272 42	+29.7	+20.0			TP								
	541		355 02 04	+12.5	11.8	91 30	+14.2	+26.0	6461.8		BS	-536	-71						
	541				11.7	268 30	+14.2	+25.9			BS								
928	273		350 50	--	7.0	90 20	-1.6	-8.6		6453.2		+273	+16	1,418,165	572,905				
K	0				5.1	-		-5.1		6456.7	K	0	0	1,417,892	572,889				
929	44		168 55	--	5.2	86 20	+3.0	-2.2		6459.6		-47	-1	1,417,845	572,888				

SURVEY NOTES-HIGH RESOLUTION DATA

Geosource Inc.

GEO-445

DATE 5-16-86 INSTRUMENT MAN B. Cotcamp ROD MAN J. Middleton PARTY NUMBER 6834 NOTES CHECKED BY J.M. LINE NO. 7 PAGE 29

AREA ARIZ. TOPO MAP MUNDOS PARK-76 STATE AZ. COUNTY COCONINO TWP RANGE PPM PARTY MANAGER S. Binns

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH - LAT.	EAST + WEST - DEP.	COORDINATES		REMARKS
														Y	X	
									6461.8							
930	355		130 10'	+12.5	7.5	88 50'	+7.2	-0.3		6461.5		-282	+215	1,412,610	573.104	
931	688		132 38 38	--	7.4	88 50'	+14.0	+6.6		6468.4	TP	-564	+393	1,417,328	573.282	Across sta.
931	688				7.3	271 10'	+14.0	+6.7			TP					
	331		4 11 25	--	13.6	87 30'	14.4	-0.8			BS	-317	-95			
	331				13.5	272 30'	-14.4	-0.9		6467.5	BS					
932	0				5.1	-	-	-5.1		6462.4	X	0	0	1,417,011	573.187	
933	330		207 45'	+12.5	10.7	91 10'	-6.7	-17.4		6450.1		-252	-213	1,416,259	572.974	
934	660		- -	--	11.8	91 10'	-13.4	-25.2		6442.3		-504	-426	1,416,507	572.761	
935	990		- -	--	10.3	91 20'	-23.0	-33.3		6434.2		-756	-640	1,416,255	572.547	
936	1320		- -	--	7.0	91 20'	-30.7	-37.7		6429.8		-1007	-853	1,416,004	572.334	
937	1650		- -	--	9.1	91 -	-28.8	-37.9		6429.6		-1259	-1006	1,415,252	572.181	
11-	1980		207 34 34	-	8.3	90 44'	-25.3	-33.6		6433.9		-1515	-1275	1,415,496	571.912	
938	1980		207 45'	-	8.3	90 44'	-25.3	-33.6		6433.9		-1515	-1275	1,415,496	571.912	
939	2310		- -	+12.5	10.8	90 18'	-12.1	-22.9		6444.6		-1763	-1493	1,415,248	571.694	
940	2640		- -	--	3.4	-	-	-3.4		6464.1		-2015	-1706	1,414,996	571.481	
941	2970		- -	--	11.7	89 30'	+25.9	+14.2		6481.7		-2267	-1919	1,414,744	571.268	
942	3300		207 40	--	12.1	89 20'	+38.4	+26.3		6493.8		-2522	-2129	1,414,489	571.058	
943	3630		- -	--	7.0	89 26'	+35.9	+28.9		6496.4		-2774	-2341	1,414,237	570.846	
TP	3900		207 43 17	--	15.0	89 28'	+36.3	+21.3	6214.3	6488.9	TP	-2978	-2518	1,414,033	570.669	
TP	3900			--	14.7	270 32'	+36.3	+21.6			TP					

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 5-16-86	INSTRUMENT MAN B. Cotcamp	ROD MAN J. Middleton	PARTY NUMBER 6834	NOTES CHECKED BY J.M.	LINE NO. 7	PAGE 81
AREA ARIZONA	TOPO MAP MUNDS PARK-7 1/2	STATE AZ.	COUNTY COCONINO	TWP	RANGE	PPM
				PARTY MANAGER S. Binns		

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			
										6294.3								
	323		94° 34' 14"	+12.5	7.9	87° -	-16.9	-9.0	6285.3		BS	+95	-308					
	323				7.9	273° -	-16.9	-9.0			BS							
954	57		79° 25'	--	6.0	87° -	+3.0	-3.0		6282.3		-2	+57	1,413,305	567,491			
π	0				5.1	-		-5.1		6280.2	π	0	0	1,413,307	567,434			
955	271		239° -	-	7.5	91° 30'	-7.1	-14.6		6270.7		-86	-257	1,413,221	567,177			
956	597		237° 20'	-	6.0	91° 44'	-18.1	-24.1		6261.2		-206	-560	1,413,101	566,874			
TP957	930		237° 57' 52"	-	13.9	91° 34'	-25.4	-39.3		6246.0	TP	-311	-876	1,412,996	566,558	Access		
TP957	930				13.8	268° 26'	-25.4	-39.2			TP					Sta.		
	330		72° 33' 57"	+12.5	5.2	88° -	-11.5	-6.3	6239.7		BS	-28	-329					
958	0				5.1	-		-5.1		6234.6	π	0	0	1,412,968	566,229	E.O.L. Line #7		
⊖	50		274° 30'		5.7	-		-5.7		6234.0	⊖	+15	-48	1,412,983	566,181	90° corner EL. 6233		
⊖					7.3	-		-7.3		6232.4	⊖							