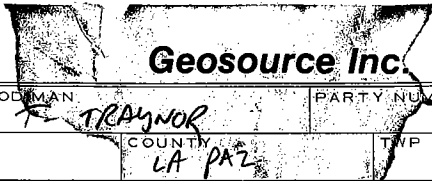


SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445



DATE	3-6-86	INSTRUMENT MAN	B. Costamp	ROD MAN	K. TRAYNOR	PARTY NUMBER	6834	NOTES CHECKED BY	D.S. J.M.	LINE NO.	5	PAGE	1
AREA	ARIZONA	TOPO MAP	SWANSEA - 15'	STATE	AZ.	COUNTY	LA PAZ	RANGE		PPM		PARTY MANAGER	J.M. McLELLAN

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH		DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFER. IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS
			1	2									LAT.	DEP.	Y	X			
K.	u.s.c.+G.S.	Bm	6280	1948	-	1.163.905	x-4	34.425	Elev. 1258.0		1258.0	K.							ARIZONA WEST ZONE 4-1.163.905 X - 434.425 6-780 U.S.C.+G.S. 64.1253
	42		0	56 46	+13.6	9.4	-		+9.4	1267.4		BS	-41	+11					
	42					+9.4	270		+9.4			BS							
	42																		
K	1701		180	48 36	-	5.9	90 20	-9.9	-15.8		1251.6		-1647	-423	1162.27	433,991		4-1.162.200 X - 434.010 y - Inter.	
1	1686		180	40	-	11.9	90 10	-4.9	-16.8		1250.6		-1634	-415	1162.330	433,999			
2	1370		183	50	-	8.8	90 40	-15.9	-24.7		1242.7		-1307	-410	1162.557	434,004			
3	1060		188	40	-	11.3	91 30	-27.8	-39.1		1228.3		-981	-402	1162.883	434,012			
4	781	780.2	199	40	-	11.9	92 40	-36.3	-48.2		1219.2		-652	-428	1163.212	433,986			
5	464	462.7	197	35	-	12.1	94 20	-35.1	-47.2		1220.2		-396	-240	1163.468	434,124			
6	149	148.4	179	20	-	11.7	95 20	-13.9	-25.6		1241.8		-145	-33	1163.719	434,381			
K	0					5.1	-		-5.1		1262.3	K	0	0	1163.864	434,414			
7	183		17	55	+13.6	7.6	90 20	-1.1	-8.7		1258.7		+156	+96	1164.020	434,510			
8	493		4	25	-	11.9	91	-8.6	-20.5		1246.9		+469	+152	1164.333	434,566			
9	816		359	20	-	13.8	90 30	-7.1	-20.9		1246.5		+795	+183	1164.659	134,592			
TP	999		358	18 48	-	12.4	90 40	-11.6	-24.0		1243.4	TP	+977	+206	1164.841	434,620			
TP	999					12.3	269 20	-11.6	-23.9			TP							
	1036		201	35 45	+3.8	89	-	-18.1	-14.3	1229.1		BS	+846	+597					
	1036				+3.7	271	-	-18.1	-14.4			BS							
10	888		202	40	-	8.7	89 30	+7.8	-0.9		1228.2		-716	-525	1164.971	434,692			
11	560		205	20	-	20.0	91 18	-12.7	-32.7		1196.4		-436	-352	1165.251	434,865			

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3-6-86		B. Cotcamp		T. TRAYNOR		6834		B.S. S.M.		5		2			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		SWANSEA-15		AZ.		LA PAZ								J. McCLELLAN	
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
									1229.1						
12	239		198° 20'	+13.6	7.6	91° 12'	-5.0	-12.6		1216.5		-203	-126	1165.484	435,091
π	0				5.1	-		-5.1		1224.0	π	0	0	1165.687	435,217
13	94		50° 10'	-	13.0	92° 10'	-3.6	-16.6		1212.5		+42	+84	1165.729	435,301
14	405		21° 10'	-	5.9	90° 10'	-1.2	-7.1		1222.0		+333	+231	1166.020	435,448
15	731		19° 40'	-	9.4	89° 50'	+2.1	-7.3		1221.8		+611	+401	1166.298	435,618
TP	819		19° 03' 52"	-	8.4	89° 50'	+2.4	-6.0		1223.1	TP	+689	+442	1166.376	435,659
TP	819				8.3	276° 10'	+2.4	-5.9			TP				
	1109	1108.3	179° 47' 30"	+13.6	4.7	88° -	-38.7	-34.0	1189.1		BS	+1078	+257		
	1109				4.6	272° -	-38.7	-34.1			BS				
16	869		178° 35'	-	7.7	88° -	+30.3	+22.6		1211.7		-849	-183	1166.605	435,233
17	543		174° 50'	-	12.2	88° -	+19.0	+6.8		1195.9		-537	-80	1166.917	435,836
18	214		172° 05'	-	10.4	-		-10.4		1178.7		-213	-21	1167.241	435,895
π	0				5.1	-		-5.1		1184.0	π	0	0	1167.454	435,916
19	115	114.1	8° 55'	+13.6	8.1	97° -	-14.0	-22.1		1167.0		+105	+44	1167.559	435,960
20	443	442.4	2° 50'	-	9.4	93° -	-23.2	-32.6		1156.5		+424	+125	1167.878	436,041
21	772	770.9	0° 40'	-	12.3	93° -	-40.4	-52.7		1136.4		+747	+190	1168.201	436,106
22	1070	1068.4	6° 08'	-	22.0	93° 08'	-58.5	-80.5		1108.6		+1006	+361	1168.460	436,227
23	1388	1386.9	10° 35'	-	6.8	92° 20'	-56.5	-63.3		1125.8		+1265	+568	1168.719	436,484
24	1707	1706.1	13° 45'	-	7.1	91° 50'	-54.6	-61.7		1127.4		+1515	+784	1168.969	436,200
25 25	1998	1996.8	10° 10' 22"	-	8.9	92° -	-69.7	-78.6		1110.5	TP	+1827	+805	1169.281	436,721

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY			LINE NO.		PAGE			
3-6-86		B. Camp		T. Traynor		6834		K.S.S.M			5		3			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
ARIZONA		SWANSEA - 15'		AZ		LA PAZ								T. McCLELLAN		
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 + SOUTH - WEST -		COORDINATES		REMARKS
												LAT.	DEP.	Y	X	
										1110.5						
	865		162° 28' 40"	+13.6	7.5	88° -	-30.2	-22.7	1087.8		BS	+862	-59			
	865				+7.4	272° -	-30.2	-22.8			BS					
26	536		163° 50'	-	26.1	88° 34'	+13.4	-12.7		1075.1		-535	+24	1169,608	436,686	
27	223		155° -	-	11.7	88° 30'	+5.8	-5.9		1081.9		-219	+44	1169,924	436,706	
K	0				5.1	-		-5.1		1082.7	K	0	0	1,170,143	436,662	
28	113		359° 45'	+13.6	10.5	93° -	-5.9	-16.4		1071.4		+110	+26	1,170,253	436,688	
29	441	439.9	347° 20'	-	19.4	94° -	-30.8	-50.2		1037.6		+440	+7	1,170,583	436,669	
30	768	766.4	350° 50'	-	9.9	93° 46'	-49.1	-59.0		1028.8		+764	+59	1,170,907	436,721	
31	1098	1096.7	352° -	-	12.8	92° 50'	-54.3	-67.1		1020.7		+1091	+107	1,171,234	436,769	
TP	1378	1377.3	356° 41' 05"	-	12.8	91° 46'	-42.5	-55.3		1032.5	TP	+1355	+246	1,171,498	436,908	
TP	1378				12.7	268° 14'	-42.5	-55.2			TP					
	318	317.0	154° 12' 46"	+13.6	6.8	85° 30'	-25.0	-18.2	1014.3		BS	+310	-67			
	318				+6.7	274° 30'	-25.0	-18.3			BS					
32	255		166° 25'	-	5.0	89° 20'	+3.0	-2.0		1012.3		-255	±0	1,171,553	436,841	
K	0				5.1	-		-5.1		1009.2	K	0	0	1,171,808	436,841	
33	76		355° 40'	-	10.0	95° 30'	-7.3	-17.3		997.0		+75	+12	1,171,883	436,843	
34	403	402.0	2° -	-	3.1	94° -	-28.1	-31.2		983.1		+387	+108	1,172,195	436,949	
TP	674		357° 21' 48"	-	11.2	90° 30'	-5.9	-17.1		997.2	TP	+662	+128	1,172,470	436,969	
TP	674				11.1	269° 30'	-5.9	-17.0			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			
3-6-86		B. Cotcamp		B. SALLIVAR		6834		B. S. J. M.		5		4			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		SWANSEA - 15		AZ.		LA PAZ								J. McCLELLAN	
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
										997.2					
	534	532.0	170° 19' 28"	+3.6	13.2	85°	-46.5	-33.3	963.9		BS	+531	+36		
	534				+13.1	275°	-46.5	-33.4			BS				
35	520		176° 15'	-	5.8	88° 10'	+16.6	+10.8		974.7		-512	-89	1,172,489	436,916
36	240		157° 30'	-	5.9	88° 10'	+7.7	+1.8		965.7		-237	+37	1,172,764	437,042
Σ	0				5.1	-		-5.1		958.8	Σ	0	0	1,173,001	437,005
37	89		319° -	+13.6	5.7	91° 20'	-2.1	-7.8		956.1		+79	-41	1,173,088	436,964
38	416		322° -	-	8.3	91° 20'	-9.7	-18.0		945.9		+379	-172	1,173,380	436,833
39	745		323° 12' 28"	-	4.9	91° 48'	-23.4	-28.3	-28.23	935.7	TP	+684	-293	1,173,685	436,712
39	745				4.6	268° 12'	-23.4	-28.0			TP				
	407		116° 59' 28"	-	12.4	87° 20'	-18.9	-6.5	929.2		BS	+265	-309		
	407				12.4	272° 46'	-18.9	-6.5			BS				
40	98		85° 10'	-	7.9	87° 20'	+4.6	-3.3		925.9		-15	+97	1,173,935	436,500
Σ	0				5.1	-		-5.1		924.1	Σ	0	0	1,173,950	436,403
41	272		334° 40'	+13.6	8.0	91° 20'	-6.3	-14.3		914.9		+266	-55	1,174,216	436,348
42	600		333° 15'	-	12.0	91° 20'	-14.0	-26.0		903.2		+584	-137	1,174,534	436,266
43	930		332° 30'	-	9.3	91° 40'	-27.1	-36.4		892.8		+903	-223	1,174,853	436,180
TP	1055		331° 30' 36"	-	8.6	91° 40'	-30.7	-39.3		889.9	TP	+1019	-271	1,174,969	436,132
TP	1055				8.5	268° 20'	-30.7	-39.2			TP				
	418		123° 21' 12"	+6.8	6.8	87° 30'	-18.2	-11.4	878.5		BS	+305	-285		
	418			+6.7	6.7	272° 30'	-18.2	-11.5			BS				

SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
3-6-86		B. Cotcamp		T. TRAMOR		6834		J.M. B.S.		5		5				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
ARIZONA		SWANSEA - 15		AZ.		LA PAZ								J. McCLELLAN		
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 + SOUTH - WEST -		COORDINATES		REMARKS
												LAT.	DEP.	Y	X	
									878.5							
44	228		119 10	+13.6	7.0	87 30	+10.0	+3.0		881.5		-155	+166	1,175,119	436,013	
TP	0				5.1	-		-5.1		873.4	TP	0	0	1,175,274	435,847	
45	117		345 10	-	7.2	91 -	-2.0	-9.2		869.3		+117	-3	1,175,391	435,844	
46	445		349 37 46	-	13.0	89 32	+3.6	-9.4		869.1		+444	+25	1,175,718	435,822	
Bm	421		343 45 28	-	13.7	-		-13.7		864.8	Bm	+421	-19	1,175,695	435,828	4-1,175,720 x-435,835 0-280 1948 EL. 865.0
TP	445		349 37 46	-	13.0	89 32	+3.6	-9.4		869.1	TP	+444	+25	1,175,718	435,872	
TP	445				12.9	270 28	+3.6	-9.3			TP					
	867	8655	167 25 56	+13.6	14.2	86 38	-50.9	-36.7	832.4		BS	+865	+16			
	867				+14.1	273 22	-50.9	-36.8			BS					
47	540		169 -	-	6.4	88 -	+18.9	+12.5		844.9		-539	-25	1,176,944	435,863	
48	224		184 50	-	5.0	88 -	+7.8	+2.8		835.2		-213	-71	1,176,370	435,817	
TP	0				5.1	-		-5.1		827.3	TP	0	0	1,176,583	435,888	
49	90		354 55	-	6.3	91 -	-1.6	-7.9		824.5		+89	+13	1,176,672	435,901	
50	418		357 -	-	5.3	91 -	-7.3	-12.6		819.8		+411	+77	1,176,994	435,965	
51	748		355 55	-	12.4	91 -	-13.1	-25.5		806.9		+738	+124	1,177,321	436,012	
TP	746		355 50 28	-	12.4	91 -	-13.0	-25.4		807.0	TP	+736	+122	1,177,319	436,010	
TP	746				12.3	269 -	-13.0	-25.3			TP					
	658		187 25 27	-	+3.9	89 -	-11.5	-7.6	799.4		BS	+614	+236			
	658				+3.8	271	-11.5	-7.7			BS					

SURVEY NOTES-HIGH RESOLUTION DATA
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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE					
3-6-86		B. Cotcamp		T. TRAYNOR		6834		F.M. B.S.		5		6					
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER			
ARIZONA		SWANSEA - 15'		AZ.		LA PAZ								J.M. CLELLAN			
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + EAST +		COORDINATES		REMARKS	
												SOUTH -	WEST -	Y	X		
									799.4								
52	330		187 05	+13.6	9.1	-		-9.1		790.3		-309	-117	1177.624	436,129		
53	0				5.1	-		-5.1		794.3	K	0	0	1177.933	436,246		
54	330	329.0	343 10		13.8	94 30	-25.9	-39.7		759.7		+328	-19	1178.261	436,227		
55	659	656.8	343 38	-	6.8	94 42	-54.0	-60.8		738.6		+656	-32	1178.589	436,214		
56	989	987.3	343 55	-	13.2	93 24	-58.7	-71.9		727.5		+986	-43	1178.919	436,203		
TP	1178	1176.9	342 06 02	-	6.7	92 30	-51.4	-58.1		741.3	TP	+1174	-88	1179.107	436,158		
TP	1178				6.6	267 30	-51.4	-58.0			TP						
	283	281.5	154 01 12	+13.6	3.5	84 -	-29.6	-26.1	715.2		BS	+275	-60				
	283				+3.4	276	-29.6	-26.2			BS						
57	167		171 15	-	5.7	88 -	+5.8	+0.1		715.3		-166	-14	1179.216	436,084		
K	0				5.1	-		-5.1		710.1	K	0	0	1179.382	436,098		
58	161		288 55	-	8.0	91 40	-4.7	-12.7		702.5		+87	-136	1179.469	435,962		
TP	393		283 39 18	-	9.5	91 40	-11.4	-20.9		694.3	TP	+180	-349	1179.562	435,749		
TP	393				9.4	268 20	-11.4	-20.8			TP						
	589		151 14 28	+13.6	7.8	88 -	-20.6	-12.8	681.5		BS	+568	-154				
	589				+7.7	272 -	-20.6	-12.9			BS						
59	483		152 10	-	7.3	88 -	+16.9	+9.6		691.1		-468	+119	1179.662	435,714		
60	154		146 05	-	5.9	88 -	+5.4	-0.5		681.0		-144	+53	1179.956	435,648		
K	0				5.1	-		-5.1		676.4	K	0	0	1180.130	435,595		
61	176		329 55	-	6.0	91 30	-4.6	-10.6		670.9		+169	-50	1180.299	435,545		

SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE						
3-6-86		B. Cotcamp		T. TRAYNOR		6834		J.M. B.S.		5		8						
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER				
ARIZONA		SWANSEA - 15'		ARIZ.		LA PAZ								J. McCLELLAN				
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			
										593.8								
	842		287° 15'	+13.6	12.9	BH	+4.2	+17.1	610.9		BS	-432	+723					
	842				12.8	BH 270°	+4.2	+17.0			BS							
70	724		287° 05'	-	13.4	BH	-3.6	-17.0		593.9		+369	-623	1181932		436,673		
71	394		-	-	8.9	91°	-6.9	-15.8		595.1		+201	-339	1181761		436,956		
72	64		-	-	5.7	-	-	-5.7		605.2		+33	-55	1181596		437,240		
K	0				5.1	-	-	-5.1		605.8	K	0	0	1181563		437,295		
73	266		112° 15'	+13.6	13.7	-	-	-13.7		597.2		-156	+216	1181407		437,511		
74	591		106° 35'	-	11.6	BH	-3.0	-14.6		596.3		-297	+511	1181266		437,806		
75	915		102° 20'	-	9.4	-	-	-9.4		601.5		-400	+823	1181163		438,118		
76	1234		97° 57'	-	9.8	-	-	-9.8		601.1		-453	+1148	1181110		438,443		
77	1518		91° 20'	-	8.6	-	-	-5.6		605.3		-391	+1467	1181172		438,762		
78	1747		83° -	-	7.4	89° 30'	+15.3	+7.9		618.8		-201	+1735	1181362		439,030		
79	2045		78° 55'	-	5.3	89° 20'	+23.8	+18.5		629.4		-90	+2043	1181473		439,338		
80	2375		78° 57' 52"	-	8.2	89° 20'	+27.6	+19.4	+19.5	630.4	TP	-106	+2372	1181457		439,667		
80	2375				7.9	270° 40'	+27.6	+19.7			TP							
	1782		247° 00' 44"	+13.6	13.6	89° -	-31.1	-17.5	-17.6	6128	BS	+291	+1758					
	1782				13.3	271° -	-31.1	-17.8			BS							
81	1460		244° 30'	-	8.8	89° 10'	+21.2	+12.4		625.2		-301	-1429	1181447		439,996		
82	1148		239° 50'	-	11.3	89° 10'	+10.7	+5.4		618.2		-327	-1100	1181421		440,325		
83	844		232° 35'	-	12.4	89° 10'	+12.3	-0.1		612.7		-340	-772	1181408		440,653		

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 3-6-86	INSTRUMENT MAN B Cstomp	ROD MAN T TRAYNOR	PARTY NUMBER 6834	NOTES CHECKED BY J.M. B.S.	LINE NO. 5	PAGE 10
AREA ARIZONA	TOPO MAP CASTAÑEDA Hills-15	STATE AZ.	COUNTY MOHAVE	TWP	RANGE	PPM
				PARTY MANAGER J. Mc CLELLAN		

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			
									624.1									
100	1798		164 10	+13.1	12.2	84	-9.0	-21.2		602.9		-1796	+76	1185330	441,242			
101	1477		166 20	-	8.3	90 30	-12.9	-21.2		602.9		-1477	+7	1185707	441,673			
102	1149		167 57	-	10.9	90 30	-10.0	-20.9		603.2		-1149	-27	1186035	441,639			
103	822		170 15	-	12.0	90 30	-7.2	-19.2		604.9		-820	-52	1186364	441,614			
104	493		171 40	-	11.4	90 30	-4.3	-15.7		608.4		-491	-44	1186695	441,622			
105	163		173 20	-	7.6	90 30	-1.4	-9.0		615.1		-162	-19	1187022	441,647			
X	0				5.1	-		-5.1		619.0	X	0	0	1187184	441,666			
106	164		322 10	+13.4	5.9	89 -	+2.9	-3.0		621.1		+149	-68	1187333	441,598			
107	493		319 10	-	13.9	87 56	+17.8	+3.9		628.0		+438	-227	1187622	441,439			
108	812		326 -	-	9.2	88 30	+21.3	+12.1		636.2		+760	-286	1187944	441,380			
109	1141		327 48	-	11.9	88 20	+33.2	+21.3		645.4		+1080	-368	1188264	441,298			
110	1468	1466.9	329 30	-	25.4	87 46	+57.2	+31.8		655.9		+1402	-431	1188586	441,235			
TP	1783	1780.8	335 16 01	-	8.0	87 10	+88.1	+80.1	+80.2	704.3	TP	+1746	-350	1188930	441,316			
TP	1783				7.7	272 50	+88.1	+80.4			TP							
	1369		156 15 21	+13.4	13.2	91 -	+23.9	+37.1	+37.0	741.3	BS	+1347	-246					
	1369				12.9	269 -	+23.9	+36.8			BS							
111	1377	1375.3	166 30	-	7.2	92 50	-68.1	-75.3		666.0		-1368	+146	1188909	441,216			
112	1057	1055.7	157 40	-	12.3	92 50	-52.3	-64.6		676.7		-1643	+164	1189224	441,234			
113	736	734.6	153 55	-	9.2	93 30	-44.9	-54.1		687.2		-717	+161	1189560	441,231			
114	408	406.7	150 45	-	10.1	94 30	-32.0	-42.1		699.2		-391	+111	1189886	441,181			

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
3-6-86		B. Cotcamp		T. TRAYNOR		6834		J.M. B.S		5	11					
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER						
ARIZONA		CASTANEDA HILLS - 15'		AZ.	MOHAVE					J. Mc CLELLAN						
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	
									741.3							
115	147	145.7	104 -	+134°	12.3	97°30'	-19.2	-31.5		709.8		-67	+129	1190,210	441,199	
X	0				5.1	-		-5.1		736.2	X	0	0	1,190,277	441,070	
116	275		5° 30'	-	11.0	91°30'	-7.2	-18.2		723.1		+260	+89	1,190,537	441,159	
117	601		2° 05'	-	5.8	89°30'	+5.2	-0.6		740.7		+579	+160	1,190,856	441,230	
118	928	926.9	359° 15'	-	9.9	87°10'	+45.9	+36.0		777.3		+904	+203	1,191,181	441,273	
119	1258	1256.5	359° 20'	-	10.3	87°10'	+62.2	+51.9		793.2		+1226	+277	1,191,503	441,347	
TP	1362	1360.3	358° 19' 12"	-	13.6	87°10'	+67.3	+53.7			TP	+1332	+276	1,191,609	441,346	
TP	1362			-	13.3	272° 50'	+67.3	+54.0	53.9	795.2	TP					
	1742		189° 37' 22"	+134°	8.8	91° -	+30.4	+39.2	537.1	834.3	BS	+1603	+681			
	1742				8.5	269° -	+30.4	+38.9			BS					
120	1509		187° 40'	-	11.7	90° 50'	-22.0	-33.7		800.6		-1108	-542	1,191,804	441,485	
121	1184		186° 25'	-	11.5	90° 50'	-17.2	-28.7		805.6		-1114	-401	1,192,098	441,626	
122	855		185° 50'	-	7.5	90° 50'	-12.4	-19.9		814.4		-807	-282	1,192,405	441,745	
123	525		183° 25'	-	11.1	90° 50'	-7.6	-18.7		815.6		-503	-152	1,192,709	441,875	
124	205		193° -	-	8.3	90° 50'	-3.0	-11.3		823.0		-84	-91	1,193,028	441,936	
X	0				5.1	-		-5.1		829.2	X	0	0	1,193,212	442,027	
125	125		358° 15'	+134°	5.5	-		-5.5		828.8		+122	+25	1,193,334	442,052	
126	455		5° -	-	6.8	89° -	+7.9	+1.1		835.4		+432	+144	1,193,644	442,171	
127	784		3° 25'	-	6.8	89° -	+13.7	+6.9		841.2		+750	+227	1,193,962	442,254	
128	1112		1° 05'	-	8.1	89° -	+19.4	+11.3		845.6		+1077	+278	1,194,289	442,305	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
3-6-86		B. Cotcamp		T. TRAYNOR		6834		J.M. B.S		5	12				
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
ARIZONA		CASTANEDA HILLS-15		AZ		MOHAVE					J. McCLELLAN				
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
									834.3						
129	1439		3° -	+13.4	7.8	89° -	+25.1	+17.3		851.6		+1380	+406	1194592	442,433
130	1764		5° 15'	-	9.6	89° -	+30.8	+21.2		855.5		+1671	+564	1194883	442,591
131	2094		4° 55'	-	8.5	89° -	+36.6	+28.1		862.4		+1988	+658	1195200	442,685
132	2424		5° 00' 40"	-	9.4	89° -	+42.3	+32.9	+330.3	867.3	TP	+2300	+765	1195512	442,792
132	2424				9.1	271° -	+42.3	+33.2			TP				
	1473		177 37 23	+13.4	7.6	96° 50'	+21.4	+29.0	+289.3	896.2	BS	+1446	+282		
	1473				7.3	269° 10'	+21.4	+28.7			BS				
133	1148		175 52	-	10.8	90° 40'	-13.4	-24.2		872.0		-1133	-185	1195825	442,889
134	818		175 56	-	9.8	90° 40'	-9.5	-19.3		876.9		-807	-133	1196151	442,941
135	521		163 15	-	6.4	90° 40'	-6.1	-12.5		883.7		-520	+30	1196438	443,104
Sec. corner	447		189 18 57	-	12.1	90° 40'	-5.2	-17.3		878.9	1716 2021	-412	-173	1196546	442,901
136	219		143° 35'	-	7.3	90° 30'	-1.9	-9.2		887.0		-202	+86	1196751	443,160
Σ	0				5.1	-	-	-5.1		891.1	Σ	0	0	1196958	443,074
137	112		334 50	+13.4	7.0	89° 30'	+11.0	-6.0		890.2		+110	-23	1197068	443,051
138	436		343 40	-	7.2	89° -	+7.6	+0.4		896.6		+435	-22	1197393	443,052
139	756		352 -	-	6.9	89° -	+13.2	+6.3		902.5		+753	+71	1197711	443,145
140	1083		350 50	-	7.9	89° -	+18.9	+11.0		907.2		+1080	+80	1198038	443,154
141	1412		350 05	-	8.7	89° -	+24.6	+15.9		912.1		+1410	+86	1198368	443,160
142	1740		350 55	-	7.9	89° -	+30.4	+22.5		918.9		+1735	+131	1198693	443,205
143	2070		351 05	-	8.6	89° -	+36.1	+27.5		923.7		+2064	+162	1199022	443,276

1716-1196560-442885
2021 Section Corner.

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE 3-6-86	INSTRUMENT MAN B. Cotcamp	ROD MAN T. TRAYNOR	PARTY NUMBER 6834	NOTES CHECKED BY J.M. B.S.	LINE NO. 5	PAGE 13
AREA ARIZONA	TOPO MAP CASTANEDA Hills-15	STATE AZ.	COUNTY MOHAVE	TWP	RANGE	PPM
				PARTY MANAGER J. M. CLELLAN		

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
									896.2						
144	2392		349° 40'	+134	8.3	89° -	+41.8	+33.5		929.7		+2389	+128	1199.347	443,302
145	2722		349° 05'	-	8.1	89° -	+47.5	+39.4		935.6		+2719	+118	1199.677	443,192
146	3052		348° 25'	-	8.4	89° -	+53.3	+44.9		941.1		+3050	+97	1200.008	443,171
147	3376	2375.3	349° 27' 34"	-	14.6	88° 52'	+66.8	+52.2	+52.3	948.5	TP	+3371	+168	1,200.329	443,242
147	3376				14.3	271° 08'	+66.8	+52.5			TP				
	1649		181° 59' 14"	+134	7.7	91° -	+28.8	+36.5	985.0		BS	+1590	+437		
	1649				+7.6	269° -	+28.8	+36.4			BS				
148	1320		182° -	-	8.0	91° -	-23.0	-31.0		954.0		-1273	-351	1200.006	443,328
149	990		-	-	7.8	91° -	-17.3	-25.1		959.9		-954	-263	1200.606	443,416
150	660		-	-	6.4	91° -	-11.5	-17.9		967.1		-636	-175	1201.283	443,504
151	330		-	-	6.3	91° -	-5.8	-12.1		972.9		-318	-88	1201.601	443,591
152	0				5.1	-		-5.1		979.9	X	0	0	1,201.919	443.679
#	278		359° 15' 10"	+134	5.5	88° 40'	+6.5	+1.0		986.0	+	+271	+61	1,202.190	443.740
153	330		0° 10'	-	6.0	88° 40'	+7.7	+1.7		986.7		+321	+77	1202.240	443,756
154	660		358° 50'	-	6.7	88° 40'	+15.4	+8.7		993.7		+645	+140	1202.564	443,819
155	986		356° 25'	-	8.9	88° 40'	+22.9	+14.0		999.0		+972	+168	1202.891	443,842
156	1316		356° 30'	-	10.3	88° 40'	+30.6	+20.3		1005.3		+1296	+226	1203.15	443,905
157	1642		354° 50'	-	13.7	88° 40'	+38.2	+24.5		1009.5		+1625	+235	1203.544	443,914
158	1962 1952		351° 08' 16"	-	13.5	88° 40'	+45.4	+31.9	+31.8	1016.8	TP	+1945	+154	1,203.861	443.833
158	1952				13.8	271° 20'	+45.4	+31.6			TP				

1202.885 x 443.785
powerline EL. 986.0

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
3-7-86		B. Costamp		T. TRAYNOR		6834		F.M. B.S.		5	14					
AREA		TOPO MAP	STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
ARIZONA		CASTANEDA HILLS-15'	AZ.	MOHAVE					J. Mc CLELLAN							
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	
										1016.8						
	1643		169 30 46	+13.4	11.2	90 50	+23.9	+35.1	1051.9		BS	+1641	+83			
	1643				11.1	269 10	+23.9	+35.0		BS						
159	1316		171 50	-	13.2	90 42	-16.1	-29.3		1022.6		-1311	-120	1204194	443,296	
160	989		173 50	-	13.2	90 32	-9.2	-22.4		1029.5		-981	-125	1204524	443,291	
161	660		173 45	-	10.3	90 30	-5.8	-16.1		1035.8		-655	-82	1204550	443,834	
162	330		175 40	-	7.4	90 30	-2.9	-10.3		1041.6		-326	-52	1205179	443,864	
163	0				5.1	-		-5.1		1046.8	X	0	0	1,205,505	443,916	
164	323		347 20	+13.4	8.0	88 40	+7.5	-0.5		1051.4		+323	+4	1205828	443,920	
165	654		345 55	-	7.6	88 40	+15.2	+7.6		1059.5		+654	-8	1206159	443,908	
166	984		346 20	-	9.6	88 40	+22.9	+13.3		1065.2		+984	-5	1206489	443,911	
167	1313		346 50	-	11.0	88 40	+30.6	+19.6		1071.5		+1313	+5	1206818	443,921	
168	1643		347 20	-	12.0	88 40	+38.2	+26.2		1078.1		+1643	+21	1207148	443,932	
169	1971		349 04 36	-	12.8	88 40	+45.9	+33.1			TP	+1969	+85	1,207,474	444,001	
169	1971				12.7	271 20	+45.9	+33.2		1085.1	TP					
	1635		181 49 30	+13.4	15.2	90 42	+20.0	+35.2	+35.1 1120.2		BS	+1578	+429			
	1635				14.9	269 18	+20.0	+34.9		BS						
170	1309		180 10	-	12.9	90 40	-15.2	-28.1		1092.1		-1272	-307	1207780	444,123	
171	988		176 -	-	10.3	90 40	-11.5	-21.8		1098.4		-975	-161	1208077	444,269	
172	660		173 40	-	9.8	90 40	-7.7	-17.5		1102.7		-655	-81	1208397	444,349	
173	330		172 50	-	7.3	90 40	-3.8	-11.1		1109.1		-328	-36	1208724	444,394	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE							
3-7-86		B. Cotcamp		T. TRAYNOR		6834		F.M. B.S.		5		15							
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER					
ARIZONA		CASTANEDA HILLS-15		AZ.		MOHAVE								J. McCLELLAN					
STATION NO.	SLOPE DISTANCE	PLOTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS	
												LAT.	DEP.	Y	X				
									1120.2										
174	0				5.1	-		-5.1		1115.1	π	0	0	1,209.052	444,430				
175	330		356° 20'	+13.4	6.0	88° 40'	+7.7	+1.7		1121.9		+325	+56	1209.377	444,486				
176	654		349° 45'	-	7.8	88° 40'	+15.2	+7.4		1127.6		+653	+36	1209.705	444,466				
177	982		346° 58'	-	11.7	88° 40'	+22.9	+11.2		1131.4		+982	+6	1210.834	444,436				
178	1312		348° 20'	-	12.7	88° 40'	+30.5	+17.8		1138.0		+1311	+40	1210.363	444,470				
179	1639		349° 17' 12"	-	14.3	88° 40'	+38.1	+23.8			TP	+1637	+77	1,210.689	444,507				
179	1639				14.0	271° 20'	+38.1	+24.1	+21.0	1144.2	TP								
	1366		174° 32' 30"	+13.4	9.2	91°	+23.8	+33.0	1177.2		BS	+1353	+189						
	1366				9.1	269°	+23.8	+32.9			BS								
180	1037		173° 40'	-	8.1	91°	-18.1	-26.2		1151.0		-1029	-128	1211.013	444,568				
181	708		171° 50'	-	6.3	91°	-12.4	-18.7		1158.5		-705	-65	1211.337	444,631				
182	384		175° 10'	-	7.4	91°	-6.7	-14.1		1163.1		-380	-57	1211.662	444,639				
183	52		160° 50'	-	6.3	91°	-0.9	-7.2		1170.0		-52	+5	1211.990	444,701				
π	0				5.1	-		-5.1		1172.1	π	0	0	1212.042	444,696				
Bm	413		260° 05' 45"	+13.4	8.2	-		-8.2		1169.0	Bm	+25	-412	1212.067	444,289	22 R 1931	EL. 1169.0		
184	277		1° 35'	-	7.3	88° 40'	+6.5	-0.9		1176.3		+268	+72	1212.310	444,768				
185	614		356° 30'	-	8.7	88° 40'	+11.3	+5.6		1182.8		+605	+106	1212.647	444,802				
186	939		357° -	-	10.3	88° 40'	+21.9	+11.6		1188.8		+924	+170	1212.966	444,866				
187	1265		359° 10'	-	12.4	88° 40'	+29.4	+17.0		1194.2		+1235	+275	1213.277	444,921				
188	1595		359° 20'	-	12.7	88° 50'	+32.5	+19.8		1197.0		+1556	+352	1213.598	445,048				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
3-7-86		B. Cotcamp		T. TRAYNOR		6834		J.M.B.5		5	16						
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
ARIZONA		CASTANEDA Hills-15'		AZ.	MOHAVE					J. M. CLELLAN							
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		
									1177.2								
189	1921		1 - 1 -	+13.4	15.0	88°50'	+39.1	+24.1		1231.3		+1861	+478	1213903	445174		
190	2242		2°47'42"	-	14.2	88°48'	+47.0	+32.8	1227.7	1210.1	TP	+2153	+625	1214195	445321		
190	2242				13.9	271°12'	+47.0	+33.1			TP						
	1241		173°33'54"	+13.1	9.3	90°50'	+18.0	+27.3	1237.4		BS	+1232	+144				
	1241				9.2	269°10'	+18.0	+27.2			BS						
191	913		173°15'	-	8.4	90°50'	-13.3	-21.7		1215.7		-907	-101	1214520	445364		
192	584		174°10'	-	7.6	90°50'	-8.5	-15.5		1221.9		-579	-74	1214848	445391		
193	254		173°20'	-	5.1	90°50'	-3.7	-8.8		1228.6		-252	-28	1215175	445432		
K	0				5.1	-		-5.1		1232.3	K	0	0	1215427	445465		
194	85		12°10'	+13.1	6.8	90°50'	-1.2	-8.0		1229.4		+77	+36	1215504	445501		
195	412		13°50'	-	6.4	90°50'	-6.0	-12.4		1225.0		+367	+187	1215794	445652		
196	742		13°40'	-	8.3	90°10'	-2.2	-10.5		1226.9		+662	+334	1216089	445799		
197	1072		14°30'	-	6.1	90°10'	-3.1	-9.2		1228.2		+950	+497	1216377	445962		
198	1401		15°40'	-	9.1	89°50'	+4.1	-5.0		1232.4		+1228	+674	1216655	446139		
199	1727		17°40'	-	13.6	89°20'	+20.1	+6.5		1243.9		+1484	+883	1216911	446348		
200	2052		17°05'	-	13.3	89°10'	+29.8	+16.5		1253.9		+1774	+1032	1217201	446497		
201	2380		15°55'	-	9.7	89°10'	+34.6	+24.9		1262.3		+2081	+1154	1217508	446619		
202	2710		15°35'	-	8.4	89°10'	+39.4	+31.0		1268.4		+2377	+1301	1217804	446766		
203	3040		-	-	10.0	89°-	+53.1	+43.1		1280.5		+2667	+1459	1218094	446924		
204	3364		14°25'	-	13.7	89°-	+58.7	+45.0		1282.4		+2983	+1554	1218410	447019		

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3-7-86		B. Cotcamp		T. TRAYNOR		6834		J.M.B.S		5		17			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		CASTANEDA Hills 15		AZ.		MOHAVE								J. Mc CLELLAN	
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
									1237.4						
205	3680	3674.4	15° 50'	+13.1	6.1	89° -	+64.2	+58.1		1295.5		+3220	+1780	1218647	447,245
206	3992	3991.4	14° 25'	-	6.4	89° -	+69.7	+63.3		1300.7		+3540	+1844	1218967	447,309
207	4322	4321.2	14° 26' 24"	-	12.5	88° 54'	+83.0	+70.5	+70.6	1308.0	TP	+3835	+1991	1,219,262	447,456
207	4322				12.2	271° 06'	+83.0	+70.8			TP				
	1646		198° 33' 33"	-	7.0	91° -	+28.7	+35.7		1343.7	BS	+1401	+864		
	1646				+6.9	269° -	+28.7	+35.6			BS				
208	1317		197° 20'	+13.1	7.4	91° -	-23.0	-30.4		1313.8		-1136	-667	1219527	447,653
209	988		195° 30'	-	7.0	91° -	-17.2	-24.2		1319.5		-867	-473	1219796	447,847
210	660		193° 35'	-	7.3	91° -	-11.5	-18.8		1324.9		-590	-296	1220073	448,024
211	330		193° 05'	-	6.3	91° -	-5.8	-12.1		1331.6		-296	-146	1220367	448,174
212	0				5.1	-		-5.1		1338.6	X	0	0	1,220,663	448,320
213	330		1° 20'	+13.1	8.7	88° 40'	+7.7	-1.0		1342.7		+320	+82	1220953	448,402
214	659		2° 10'	-	10.4	88° 40'	+15.3	+4.9		1348.6		+636	+174	1221299	448,494
215	989		4° 20'	-	12.5	88° 40'	+23.0	+10.5		1354.2		+944	+296	1221607	448,616
216	1318		5° 05'	-	14.0	88° 40'	+30.7	+16.7		1360.4		+1252	+411	1221915	448,731
217	1648		6° 25'	-	11.0	88° 50'	+33.6	+22.6		1366.3		+1553	+551	1222216	448,871
218	1976		8° 10'	-	12.6	88° 50'	+40.2	+27.6		1371.3		+1841	+717	1222504	449,037
219	2302		9° 43' 06"	-	13.7	88° 50'	+46.9	+33.2	+55.3	1377.0	TP	+2121	+893	1,222,784	449,213
219	2302				13.4	271° 10'	+46.9	+33.5			TP				ACROSS FLAG

SURVEY NOTES-HIGH RESOLUTION DATA
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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3-7-86		B. C. Camp		B. Traynor		6834		B.S. J.M.		5		18			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		CASTANEDA HILLS-15		AZ.		MOHAVE								J. McCLELLAN	
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
									1377.0						
	2307		197 21 21	+13.1	12.8	90° 44'	+29.5	+42.3	+13.27 1419.2		BS	+1989	+1169		
	2307				12.5	268 16	+29.5	+42.0		BS					
220	1979		196 50	-	8.2	90° 50'	-28.8	-37.0		1382.2		-1715	-988	1223058	449,394
221	1650		196 40	-	7.0	90° 50'	-24.0	-31.0		1388.2		-1433	-819	1223340	449,563
222	1320		196 10	-	6.0	90° 50'	-19.2	-25.2		1394.0		-1152	-645	1223621	449,737
223	990		- -	-	6.3	90° 50'	-14.4	-20.7		1398.5		-864	-484	1223909	449,898
224	660		- -	-	5.8	90° 50'	-9.6	-15.4		1403.8		-576	-323	1224197	450,059
225	330		- -	-	5.7	90° 50'	-4.8	-10.5		1408.7		-288	-161	1224485	450,221
226	0		- -	-	5.1	-	-	-5.1		1414.1	K	0	0	1,224,773	450,382
227	330		15° 50'	+13.1	6.4	88° 50'	+6.7	+0.3		1419.5		+289	+160	1225062	450,542
228	660		- -	-	6.8	88° 50'	+13.4	+6.6		1425.8		+578	+319	1225351	450,701
229	990		- -	-	6.6	88° 50'	+20.2	+13.6		1432.8		+866	+479	1225639	450,861
230	1320		- -	-	7.1	88° 50'	+26.9	+19.8		1439.0		+1155	+639	1225928	451,021
231	1650		15° 50'	-	8.0	88° 50'	+33.6	+25.6		1444.8		+1444	+798	1226217	451,180
232	1980		- -	-	9.1	88° 50'	+40.3	+31.2		1450.4		+1733	+958	1226506	451,346
233	2310		15° 55'	-	10.8	88° 50'	+47.0	+36.2		1455.4		+2020	+1121	1226793	451,503
234	2640		- -	-	12.1	88° 50'	+53.8	+41.7		1460.9		+2309	+1281	1227082	451,663
235	2973	2372.4	15° 45 46	+13.1	13.0	88° 50'	+60.5	+47.5	+47.5	1466.8	TP	+2603	+1435	1,227,376	451,817
235	2973				12.7	271 10	+60.5	+47.8			TP				ACROSS FLAG

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3-7-86		B. Cotcamp		T. TRAYNOR		6834		J. M. B. S.		5		19			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		CASTANEDA HILLS-15		AZ.		MOHAVE								J. McCLELLAN	
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
									1466.8						
	2310		195° 53' 18"	+13.3	9.4	90° 46'	130.9	+40.3	449.2 ± 1537.0		BS	+2017	+1126		
	2310				9.1	269° 14'	+30.9	+40.0		BS					
236	1980		195° 30'	-	11.9	90° 40'	-23.0	-34.9		1472.1		-1735	-954	1227658	451,989
237	1480 1650		175° 25'	-	10.4	90° 40'	-19.2	-29.6		1477.4		-1447	-793	1227910	452,150
238	1320		195° 20'	-	9.1	90° 40'	-15.4	-24.5		1482.5		-1159	-633	1228234	452,310
239	990		195° 05'	-	7.6	90° 40'	-11.5	-19.1		1487.9		-871	-471	1228522	452,472
240	660		194° 30'	-	6.3	90° 40'	-7.7	-14.0		1493.0		-584	-308	1228809	452,635
241	330		193° 40'	-	5.9	90° 40'	-3.8	-9.7		1497.3	Elev.	-294	-150	1,229,099	452,793
242	0				5.1	-		-5.1		1501.9	X	0	0	1,229,393	452,943
243	330		9° 45'	+13.3	8.3	88° 40'	+7.7	-0.6		1506.4		+304	+129	1229697	453,022
244	660		11° 40'	-	7.5	88° 40'	+15.4	+7.9		1514.9		+598	+279	1229991	453,222
245	989		13° -	-	10.0	88° 32'	+25.3	+15.3		1522.3		+887	+438	1230280	453,381
246	1316	195.4	11° 10'	-	11.6	88° 20'	+38.3	+26.7		1533.7		+1197	+545	1230590	453,488
247	1635	1634.4	7° 55'	-	9.6	88° 30'	+42.8	+33.2		1540.2		+1524	+591	1230917	453,534
248	1946	1945.3	4° 35'	-	9.2	88° 30'	+50.9	+41.7		1548.7		+1851	+597	1231244	453,540
249	2247	2246.2	0° 40'	-	10.1	88° 30'	+58.8	+48.7		1555.7		+2180	+542	1231573	453,485
TP	2449	2448.0	359° 38' 44"	-	12.4	88° 22'	+69.8	+57.4	157.5 ±	15645	TP	+2386	+548	1,231,779	453,471
TP	2449				12.1	271° 38'	+69.8	+57.7			TP				
	2354		160° 36' 39"	+13.3	7.7	BM	+11.8	+19.5			BS	+2341	-256		
	2354				7.4	BM 270	+11.8	+19.2	19.3 ± 1533.8		BS				

y-1,229,100 x-452,790
EL. 1499.0

SURVEY NOTES-HIGH RESOLUTION DATA
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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3-7-86		B. Cotcamp		T. TRAYNOR		6834		F.M.B.S		5		10			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA				AZ.		MOHAVE								J. McCLELLAN	
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
									1583.8						
250	2230		160 20	+13.3	10.1	90 30	-19.5	-29.6		1554.2		-2216	+247	1231904	453,488
251	1907		158 45	-	8.7	90 40	-22.2	-30.9		1552.9		-1889	+264	1232231	453,505
252	1578		157 20	-	9.1	90 40	-18.4	-27.5		1556.3		-1557	+257	1232563	453,498
253	1253		156 30	-	8.3	90 40	-14.6	-22.9		1560.9		-1233	+222	1232887	453,463
254	923		156 20	-	9.1	90 40	-10.7	-14.8		1564.0		-908	+166	1233212	453,407
255	593		156 40	-	7.9	90 40	-6.9	-14.8		1569.0		-584	+103	1233536	453,344
256	263		158 15	-	7.9	90 40	-3.1	-11.0		1572.8		-260	+39	1233860	453,280
K	0				5.1	-		-5.1		1578.7	K	0	0	1234120	453,241
257	70		325 45	+13.3	8.4	90 40	-0.8	-9.2		1574.6		+65	-25	1234185	453,216
258	395		344 30	-	8.0	89 20	+4.6	-3.4		1580.4		+395	-15	1234515	453,226
259	726		345 05	-	6.0	89 20	+8.5	+2.5		1586.3		+726	-20	1234846	453,221
260	1056		- -	-	7.5	89 10	+15.4	+7.9		1591.7		+1056	-30	1235176	453,211
261	1386		344 35	-	7.0	89 10	+20.2	+13.2		1597.0		+1385	-51	1235505	453,190
262	1715		344 -	-	11.3	89 -	+29.9	+18.6		1602.4		+1713	-81	1235833	453,160
263	2045		- -	-	11.9	89 -	+35.7	+23.8		1607.6		+2043	-96	1236163	453,145
264	2375		- -	-	12.1	89 -	+41.5	+29.4		1613.2		+2372	-112	1236492	453,129
265	2705		344 05	-	13.0	89 -	+47.2	+34.2		1618.0		+2702	-123	1236822	453,118
TP	2831	2830.4	346 40 40	-	6.1	88 50	+57.6	+51.5	151.6	1635.4	TP	+2830	-1	1236950	453,240
TP	2831				5.8	271 10	+57.6	+51.8			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			
3-7-86		B. Cotcamp		B. TRAYNOR		6834		J.M. S.S.		5		21			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZ.		CASTANEDA HILLS-15'		AZ.		MOHAVE								J. M. CLELLAN	
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
										1635.4					
	1210		190 11 04	+13.3	11.9	91 -	+21.1	+33.0			TBS	+1110	+482		
	1210				11.8	269 -	+21.1	+32.9	168.3		BS				
266	1062	1061.4	196 05	-	6.0	92 -	-37.1	-43.1		1625.2		-925	-521	1237135	453,201
267	730		198 40	-	11.7	92 -	-25.5	-37.2		1631.1		-619	-386	1237441	453,336
268	401		195 40	-	10.8	92 -	-14.0	-24.8		1643.5		-351	-194	1237151	453,528
269	94		160 05	-	13.8	93 -	-4.9	-18.7		1649.6		-93	+11	1237967	453,733
π	0				5.1	-		-5.1		1663.2	π	0	0	1238060	453,722
270	239		3 35	+13.3	6.4	91 -	-4.2	-10.6		1657.7		+229	+69	1238289	453,791
271	563		359 -	-	11.7	89 -	+9.8	-1.9		1666.4		+550	+120	1238610	453,842
272	890		354 30	-	10.7	89 -	+15.5	+4.8		1673.1		+882	+121	1238942	453,843
273	1215	1214.3	353 20	-	9.0	88 -	+42.4	+33.4		1701.7		+1206	+140	1239266	453,862
274	1526	1524.7	349 22	-	10.6	87 40	+62.1	+51.5		1719.8		+1523	+71	1239583	453,793
275	1856	1854.0	348 40	-	10.3	87 20	+86.4	+76.1		1744.4		+1853	+64	1239913	453,786
TP	1954	1951.9	350 01 44	-	9.8	87 20	+90.9	+81.1	171.2	1747.5	TP	+1949	+113	1240009	453,835
TP	1954				9.5	272 40	+90.9	+81.4			TP				
	1879	1878.2	166 44 33	+13.3	14.6	88 22'	-53.6	-39.0	-39.1	1710.4	BS	+1878	+1		
	1879				14.3	271 38	-53.6	-39.3			BS				
276	1657	1656.3	165 15	-	11.0	88 20	+48.2	+37.2		1747.6		-1656	+42	1240231	453,878
277	1345	1344.4	161 10	-	10.3	88 20	+39.1	+28.8		1739.2		-1338	+130	1240549	453,966
278	1024		158 25	-	10.0	88 40'	+23.8	+13.8		1724.2		-1013	+148	1240874	453,984

Back on old 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			
3-7-86		B. Cotcamp		T. TRAYNOR		6834		J.M. B.S.		5		27			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		CASTANEDA HILLS-15'		AZ.		MOHAVE								J. McCLELLAN	
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
									1710.4						
279	692		156° 20'	+13.3	12.9	89° 10'	+10.1	-2.8		1707.6		-681	+125	1241706	453,961
280	368		161° -	-	9.0	90° 16'	-1.1	-10.1		1700.3		-366	+37	1241521	453,873
281	55		199° 25'	-	10.2	92° 16'	-2.1	-12.3		1698.1		-46	-30	1241841	453,806
K	0				5.1	-		-5.1		1705.3	K	0	0	1,241,887	453,836
282	284		340° 05'	+13.3	8.3	90° 10'	-0.8	-9.1		1701.3		+282	-33	1242169	453,803
283	606		351° 30'	-	11.1	89° 20'	+7.1	-4.1		1706.3		+604	+51	1242491	453,887
284	930		356° 20'	-	10.1	89° 20'	+10.8	+0.7		1711.1		+917	+156	1242804	453,992
+	969		324° 59' 30"	-	7.2	89° 40'	+5.6	-1.0		1708.8	+	+900	-358	1,242,787	453,478
285	1247		1° 58'	-	20.1	88° 46'	+26.8	+6.7		1717.1		+1203	+328	1243090	454,164
TP	1378		4° 29' 46"	-	14.8	89° -	+24.0	+9.2		1719.6	TP	+1312	+421	1,243,199	454,257
TP	1378				14.7	271° -	+24.0	+9.3			TP				
	968		193° 17' 33"	+13.3	8.4	91° -	+16.9	+25.3		1744.9	BS	+865	+433		
	968				8.3	269° -	+16.9	+25.2			BS				
286	786		192° 35'	-	9.0	91° -	-13.7	-22.7		1722.2		-707	-343	1243357	454,347
287	460		188° 05'	-	8.7	91° -	-8.0	-16.7		1728.2		-428	-168	1243636	454,522
288	133		176° -	-	8.0	91° -	-2.3	-10.3		1734.6		-131	-21	1243953	454,669
K	0				5.1	-		-5.1		1739.8	K	0	0	1,244,064	454,690
289	189		346° 30'	-	5.5	-		-5.5		1739.4		+189	-1	1244253	454,689
290	521		341° 35'	-	6.0	TH	+2.6	-3.4		1741.5		+519	-46	1244583	454,644
//	130		301° -	-	4.6	91° -	-2.3	-6.9		1738.0	EEZ.	+91	-93	1,244,155	454,597

1,242,780 x 453,490
Section corner

1,244,155 x 454,600
Elev. 17384

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3-7-86		B. Cotcamp		T. TRAYNOR		6834		B.S. J.M.		5		23			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		CASTANEDA HILLS-15		AZ.		MOHAVE								J. Mc CLELLAN	
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
									1744.9				1,244,064	454,690	
291	852		340 30	+13.3	7.6	89° 30'	+7.4	-0.2		1744.7		+847	-92	1,244,911	454,598
292	1182		- -	-	8.6	89° 30'	+10.3	+1.7		1746.6		+1175	-128	1,245,239	454,562
293	1512		- -	-	7.1	89° 30'	+13.2	+6.1		1751.0		+1503	-163	1,245,567	454,527
294	1841		- -	-	7.2	89° 30'	+16.1	+8.9		1753.8		+1830	-199	1,245,894	454,491
295	2170		339 55	-	6.4	89° 30'	+18.9	+12.5		1757.4		+2155	-256	1,246,219	454,434
TP	2430		338° 11' 28"	-	14.3	89° 20'	+28.3	+14.0			TP	+2403	-360	1,246,464	454,330
TP	2430				14.0	270° 40'	+28.3	+14.3	+14.2	1759.1	TP	-3			
	904		139 00 00	+13.3	12.5	-		+12.5		1771.6	BS	+800	-420		
	904				12.4	270 -		+12.4			BS	-3			
296	842		139 -	-	11.0	90° 06'	-1.5	-12.5		1759.1		-746	+391	1,246,515	454,301
297	511		140 20	-	10.1	-		-10.1		1761.5		-458	+227	1,246,803	453,910
298	183		130 50	-	6.8	89 -	+3.2	-3.6		1768.0		-148	+107	1,247,113	454,017
K	0				5.1	-		-5.1		1766.5	K	0	0	1,247,261	453,910
299	165		350 15	-	5.7	89 -	+2.9	-2.8		1768.8		+165	+10	1,247,426	453,910
300	495		346 30	-	8.7	89 -	+8.6	-0.1		1771.5		+495	-2	1,247,756	453,908
301	825		- -	-	10.3	89 -	+14.4	+4.1		1775.7		+825	-3	1,248,086	453,907
302	1156		346 -	-	11.6	89 -	+20.2	+8.6		1780.2		+1156	-14	1,248,417	453,896
303	1486		345 -	-	13.7	89 -	+25.9	+12.2		1783.8		+1485	-44	1,248,746	453,866
304	1817		344 09 42	-	14.5	89 -	+31.7	+17.2			TP	+1815	-80	1,249,073	453,830
304	1817				14.2	271 -	+31.7	+17.5	+17.4	1789.0	TP	-3			

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3-7-86		B. Cotcamp		T. TRAYNOR		6834		B.S. J.M.		5		29			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		CASTANEDA Mils-15		AZ.		MOHAVE								J. Mc CLELLAN	
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
									1789.0						
	1776		155° 16' 20"	+133°	13.3	91° -	+31.0	+44.3	1833.2		BS	+1741	-352		
	1776				13.0	269° -	+31.0	+44.0			BS	-3			
305	1483		158° 45'	-	9.2	91° 20'	-34.5	-43.7		1789.5	H	-1468	+205	1,249,343	453,683 wash
306	1264		168° 05'	-	10.1	91° 20'	-29.4	-39.5		1793.7		-1264	-31	1,249,547	453,428
WELL	1160		164° 22' 45"	-	8.6	91° 20'	-27.0	-35.6		1797.6		-1159	+47	1,249,652	453,525
307	948		173° 05'	+13.3	13.4	91° 20'	-22.1	-35.5		1797.7		-942	-105	1,249,869	453,373
308	624		175° 10'	-	5.7	92° 20'	-25.4	-31.1		1802.1		-617	-92	1,250,194	453,386
309	294		170° 30'	-	11.4	93° 20'	-17.1	-28.5		1804.7		-293	-19	1,250,518	453,459
T	0				5.1	-		-5.1		1828.1	T	0	0	1,250,811	453,478
310	47		40° 50'	+13.3	12.4	93° 20'	-2.7	-15.1		1818.1		+28	+38	1,250,839	453,516
311	355		346° -	-	11.8	91° 20'	-8.3	-20.1		1813.1		+355	-4	1,251,166	453,474
312	683		341° 50'	-	12.0	90° 20'	-4.0	-16.0		1817.2		+681	-58	1,251,492	453,428
313	1012		340° 35'	-	6.0	90° 20'	-5.9	-11.9		1821.3		+1006	-108	1,251,817	453,320
314	1341		339° 50'	-	7.0	-		-7.0		1826.2		+1331	-160	1,252,142	453,318
315	1671		339° 40'	+13.3	11.2	TM	+8.4	-2.9		1830.3		+1658	-205	1,252,469	453,273
316	2001		-	-	10.7	TM	+10.0	-0.7		1832.5		+1986	-245	1,252,797	453,233
317	2331		339° 05'	-	10.1	TM	+11.7	+1.6		1834.8		+2310	-309	1,253,121	453,169
318	2661		339° -	-	5.9	89° 40'	+15.5	+9.6		1842.8		+2637	-357	1,253,448	453,121
319	2987		338° 05'	-	13.3	89° 34'	+22.6	+9.3		1842.5		+2953	-448	1,253,764	453,030
320	3310		336° 32' 42"	+13.5	12.4	89° 34'	+25.0	+12.6		1845.8	TP	+3260	-572	1,254,068	452,906

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO		PAGE			
3-12-86		B. Cotcamp		B. SALDIVAR		6834		J.M. B-3		5		25			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		CASTAÑEDA HILLS-15		AZ.		MOHAVE								J. M. CLELAN	
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
									1845.8						
	1573		155° 52'	+13.5	13.8	96° 30'	+13.7	+27.5	1873.3		BS	+1546	-290		
	1573			-	13.7	269° 30'	+13.7	+27.4			BS	-3			
321	1244		156° 26'	-	13.9	90° 26'	-9.4	-23.3	1850.0			-1225	+217	1,254,386	452,833
322	914		155° 25'	-	11.6	90° 30'	-8.0	-19.6	1853.7			-897	+176	1,254,714	452,792
323	584		153° 25'	-	10.3	90° 30'	-5.1	-15.4	1857.9			-569	+132	1,255,042	452,748
324	256		148° 35'	-	10.1	90° 30'	-2.2	-12.3	1861.0			-2144	+79	1,255,367	452,695
TP	0			-	5.1	-	-	-5.1	1868.2		TP	0	0	1,255,611	452,616
325	77		346° 15'	+13.5	7.0	89° 10'	+1.1	-5.9	1867.4			+77	-0	1,255,688	452,616
326	466		338° 35'	-	11.0	89° 10'	+5.9	-5.1	1868.2			+402	-56	1,256,013	452,560
327	736		-	-	9.7	89° 10'	+10.7	+1.0	1874.3			+729	-101	1,256,340	452,515
328	1066		-	-	10.1	89° 10'	+15.5	+5.4	1878.7			+1056	-147	1,256,667	452,469
329	1396		-	-	8.3	89° 10'	+20.3	+12.0	1885.3			+1383	-192	1,256,994	452,424
330	1726		-	-	9.4	89° 10'	+25.1	+15.7	1889.0			+1710	-238	1,257,321	452,378
331	2056		338° 45'	-	13.3	89° 10'	+29.9	+16.6	1889.9			+2037	-277	1,257,648	452,339
332	2385		339° -	-	13.0	89° 10'	+34.7	+21.7	1895.0			+2365	-311	1,257,976	452,305
333	2715		339° 25'	+13.5	13.8	89° 10'	+39.5	+25.7	1899.0			+2694	-335	1,258,305	452,281
334	3043		340° 15'	-	11.1	89° 10'	+44.3	+33.2	1906.5			+3025	-331	1,258,636	452,285
335	3373		340° 20'	-	13.0	89° 12'	+47.1	+34.1	1907.4			+3353	-362	1,258,964	452,254
336	3700		339° 51' 42"	-	11.6	89° 12'	+51.7	+40.1	1913.6		TP	+3675	-428	1,259,283	452,188
336	3700			-	11.3	270° 48'	+51.7	+40.4			TP	-3			

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3-12-86		B. Cotamp		B. SALDIVAR		6834		J.M. B.S		5		26			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		CASTANEDA HILLS-15		AZ.		MOHAVE								J. McCLELLAN	
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
										1913.6					
	1651		161 08 42	+13.5	10.4	90° 30'	+14.4	+24.8	1938.4		BS	+1644	-154		
	1651			-	10.3	269° 30'	+14.4	+24.7			BS	-2			
337	1320		161 23	-	10.1	90° 30'	-11.5	-21.6		1916.8		-1315	+118	1,259,610	452,152
338	990		-	-	12.3	90° 30'	-8.6	-20.9		1917.5		-986	+88	1,259,939	452,122
Bm	774		163 12 50		7.2	90° 30'	-6.8	-14.0		1924.4	Bm	-773	+44	1,260,152	452,078
339	660		161 23	+13.5	8.0	90° 30'	-5.8	-13.8		1924.6		-657	+59	1,260,268	452,093
340	336		-		7.3	90° 30'	-2.9	-10.2		1978.2		-329	+29	1,260,596	452,063
341	0				5.1	-		-5.1		1933.3	X	0	0	1,260,925	452,034
342	330		345 40	-	7.1	89° 10'	+4.8	-2.3		1936.1		+330	-5	1,261,255	452,029
343	660		347 12	-	6.2	89° 10'	+9.6	+3.4		1941.8		+660	+8	1,261,585	452,042
344	989		346 15	-	6.8	89° 10'	+14.4	+7.6		1946.0		+989	-4	1,261,914	452,030
345	1319		345 -		7.7	89° 10'	+19.2	+11.5		1949.9		+1319	-35	1,262,244	451,999
346	1648		343 10	+13.5	9.6	89° 10'	+24.0	+14.4		1952.8		+1648	-96	1,262,570	451,938
347	1978		343 20	-	7.5	89° 10'	+28.8	+21.3		1957.7		+1978	-109	1,262,900	451,925
348	2307		343 35	-	12.6	89° 14'	+30.9	+18.3		1956.7		+2304	-117	1,263,229	451,917
349	2637		343 50	-	9.6	89° 10'	+38.4	+28.8		1967.2		+2634	-123	1,263,559	451,911
350	2966		343 30		12.2	89° 10'	+43.1	+30.9		1969.3		+2962	-155	1,263,887	451,879
#	2979		343 30 39	+13.5	12.0	89° 10'	+43.3	+31.3		1969.7	#	+2975	-155	1,263,900	451,879
351	3297		343 10 04	-	10.3	89° 10'	+48.0	+37.7			TP	+3291	-192	1,264,214	451,842
351	3297				10.2	270° 50'	+48.0	+37.8		1976.2	TP	-2			ACROSS STA.

Bm. 1,260,150 X - 452,100
Bm. 22T 1931 EL. 1925.0

1,263,895 X - 451,905
CATTLE GUARD SECTION 2, 1970.
2170

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3-12-86		B. Cotcamp		B. SALDIVAR		6834		JM B.S		5		27			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		CASTANEDA Hills-15'		AZ		MOHAVE								J. Mc CLELLAN	
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
									1976.2				1,264,214	451,842	
	1979		159 26 15	+13.5	8.0	90 40	+23.0	+31.0	2007.2		BS	+1964	-243		
	1979				7.9	269 20	+23.0	+30.9		BS			-2	+1	
352	1650		159 30	-	9.8	90 40	-19.2	-29.0		1978.2		-1638	+201	1,264,538	451,801
353	1320		159 50	-	9.4	90 40	-15.4	-24.8		1982.4		-1311	+153	1,264,865	451,753
354	990		160 30	-	10.8	90 40	-11.5	-22.3		1984.9		-985	+103	1,265,191	451,703
355	660		161 05	+13.5	8.8	90 40	-7.7	-16.5		1990.7		-657	+62	1,265,519	451,662
356	330		161 20	-	7.0	90 40	-3.8	-10.8		1996.4		-329	+30	1,265,847	451,630
357	0			-	5.1	-		-5.1		2002.1	X	0	0	1,266,176	451,600
358	330		343 35	-	9.1	89 -	+5.8	-3.3		2003.9		+330	-17	1,266,506	451,583
359	660		341 40		7.8	89 -	+11.5	+3.7		2010.9		+658	-56	1,266,834	451,544
360	989		340 20	+13.5	11.9	89 -	+17.3	+5.4		2012.6		+983	-106	1,267,159	451,494
361	1319		341 -		12.4	89 -	+23.0	+10.6		2017.8		+1313	-126	1,267,489	451,474
362	1649		342 10	-	14.8	89 -	+28.8	+14.0		2021.2		+1644	-125	1,267,820	451,475
363	1978		343 40	-	13.2	89 -	+34.2	+21.3		2028.5		+1976	-98	1,268,152	451,502
364	2305		344 51 21	-	11.5	89 -	+40.2	+28.7			TP	+2304	-66	1,268,478	451,535
364	2305				11.4	271 -	+40.2	+28.8		2036.0	TP		-2		
	1747		196 35 27	-	10.7	90 40	+20.3	+31.0	2067.0		BS	+1511	+876		
	1747			-	10.6	289 20	+20.3	+30.9		BS			-2	+1	
365	1423		197 40	+13.5	9.6	90 40	-16.6	-26.2		2040.8		-1218	-736	1,268,769	451,676
Pipeline	1115		197 08 45	-	9.9	90 40	-13.0	-22.9		2044.1	#	-959	-568	1,269,028	451,844

9+1,269,010 X - 451,875
Pipeline EL. 2044.0

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	3-12-86	INSTRUMENT MAN	B. Cotcamp	ROD MAN	B. SALDIVAR	PARTY NUMBER	6834	NOTES CHECKED BY	B-S J.M.	LINE NO.	5	PAGE	28	
AREA	ARIZONA	TOPO MAP	CASTAÑEDA HILLS - 15'	STATE	AZ.	COUNTY	MOMAVE	TWP		RANGE		PPM		
													PARTY MANAGER	J. Mc CLELLAN

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				
									2067.0										
366	1088		196 50	+13.5	9.8	90 40	-12.7	-22.5		2044.5		-939	-549	1,269,048	451,863				
367	761		197 10	-	10.8	90 40	-8.9	-19.7		2047.3		-650	-388	1,269,332	452,024				
368	431		-	-	9.6	90 40	-5.0	-14.6		2052.4		-371	-220	1,269,616	452,192				
369	101		190 -		7.0	90 40	-1.2	-8.2		2058.8		-93	-40	1,269,894	452,372				
π	0				5.1	-		-5.1		2061.9	π	0	0	1,269,987	452,412				
370	233		34 15	+13.5	8.1	89 10	+3.4	-4.7		2062.3		+157	+172	1,270,144	452,584				
371	563		36 20	-	6.2	89 10	+8.2	+2.0		2069.0		+363	+430	1,270,350	452,840				
372	889		32 50	-	6.6	89 10	+12.9	+6.3		2073.3		+614	+643	1,270,601	453,055				
373	1218		31 -	+13.5	5.4	89 10	+17.7	+12.3		2079.3		+869	+854	1,270,856	453,266				
374	1547		32 05		8.7	89 -	+27.0	+18.3		2085.3		+1083	+1105	1,271,070	453,517				
375	1875		31 55	-	9.6	89 -	+32.7	+23.1		2090.1		+1316	+1335	1,271,303	453,747				
376	2187		29 10	-	10.9	89 -	+38.2	+27.3		2094.3		+1608	+1482	1,271,595	453,894				
377	2508		27 -	-	11.0	89 -	+43.8	+32.8		2099.8		+1907	+1629	1,271,894	454,041				
378	2829		25 31 50		10.3	89 -	+49.4	+39.1		2106.1	TP	+2197	+1781	1,272,182	454,194				
378	2829				10.2	271 -	+49.4	+39.2			TP	-2	+						
	2697		193 01 52	+13.5	10.5	90 50	+39.2	+49.7	2155.8		BS	+2413	+1205						
	2697				10.4	269 10	+39.2	+49.6			BS	-2	+						
379	2365		192 20	-	10.2	90 50	-34.4	-44.6		2111.2		-2129	-1031	1,272,464	454,369				
380	2037		191 45	-	10.0	90 50	-29.6	-39.6		2116.2		-1842	-869	1,272,751	454,531				
381	1709		192 30		9.3	90 50	-24.9	-34.2		2121.6		-1536	-749	1,273,057	454,651				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 3-12-86	INSTRUMENT MAN B. Cotamp	ROD MAN B. SALDIVAR	PARTY NUMBER 6834	NOTES CHECKED BY F.M.	LINE NO. 5	PAGE 29
AREA ARIZONA	TOPO MAP DUTCH FLAT S.W. - 7 1/2'	STATE AZ.	COUNTY MOHAVE	TWP	RANGE	PPM
				PARTY MANAGER J. McCRELLAN		

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				
									2155.8										
382	1380		193° 45'	113.5	12.9	90° 40'	-16.1	-29.0		2126.8		-1227	-632	1,273,366	454,768			CASTANEDA MILLS - 15'	
383	1050		193° 25'	-	11.0	90° 40'	-12.2	-23.2		2132.6		-936	-475	1,273,657	454,925			DUTCH FLAT S.W. - 7 1/2'	
384	722		191° 20'	-	9.1	90° 40'	-8.4	-17.5		2138.3		-655	-303	1,273,938	455,097				
385	393		188° 45'	-	6.2	90° 40'	-4.6	-10.8		2145.0		-364	-149	1,274,229	455,251				
386	63		-	-	5.3	90° 40'	-0.7	-6.0		2149.8		-58	-24	1,274,535	455,326				
Σ	0				5.1	-		-5.1		2150.7	Σ	0	0	1,274,593	455,400				
387	266		7° 30'		6.1	89° -	+4.6	-1.5		2154.3		+248	+95	1,274,841	455,495				
388	596		10° 20'	+13.5	5.9	89° -	+10.4	+4.5		2160.3		+545	+241	1,275,138	455,641				
389	923		14° 05'	-	4.9	89° -	+16.1	+11.2		2167.0		+818	+427	1,275,411	455,827				
390	1252		15° 30'	-	8.6	88° 50'	+25.5	+16.9		2172.7		+1095	+607	1,275,688	456,007			+1,275,750 X - 456,130	
Σ	1378		18° 28' 39"	-	12.8	88° 40'	+32.1	+19.3		2175.1		+1169	+730	1,275,762	456,130			Σ sec. Line 2175.0	
391	1582		15° 25'	-	11.3	88° 46'	+34.1	+22.8		2178.6		+1385	+765	1,275,978	456,165				
392	1912		-	-	12.4	88° 46'	+41.2	+28.8		2184.6		+1674	+925	1,276,267	456,325				
393	2242		-	-	13.5	88° 46'	+48.3	+34.8		2190.6		+1962	+1084	1,276,555	456,484				
394	2571		14° 55'		11.9	88° 50'	+52.4	+40.5		2196.3		+2261	+1223	1,276,854	456,623				
395	2900	2899.4	14° 15'	+13.5	13.4	88° 50'	+59.1	+45.7		2201.5		+2570	+1343	1,277,163	456,743				
396	3221	3220.3	12° 56' 17"		14.7	88° 50'	+65.6	+50.9	+51.0	2206.8	TP	+2884	+1434	1,277,475	456,835				
396	3221		-	-	14.4	271° 10'	+65.6	+51.2			TP	-2	"						
	1648		181° 33' 28"	-	+14.6	90° 40'	+19.2	+33.8	2240.6		BS	+591	+428						
	1648			-	+14.5	269° 20'	+19.2	+33.7			BS	-2	"						

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3-12-86		B. Cotcamp		B. SALDIVAR		6834		J.M.		5		30			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		Dutch FLAT S.W. - 7 1/2'		AZ.		MOHAVE								J. McLELLAN	
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
									2240.6						
397	1319		182 35	13.5	13.0	90 40	-15.4	-28.4		2212.2		-1267	-365	1,277,797	456,897
398	990		183 -	-	11.8	90 40	-11.5	-23.3		2217.3		-949	-281	1,278,115	456,983
399	660		-	-	9.0	90 40	-7.7	-16.7		2223.9		-633	-187	1,278,431	457,077
400	330		-	-	6.3	90 40	-3.8	-10.1		2230.5		-316	-94	1,278,748	457,170
401	0				5.1	-		-5.1		2235.5	TP	0	0	1,279,064	457,264
402	330		11 10		7.7	88 40	+7.7	-0.0		2240.6		+300	+138	1,279,364	457,402
403	660		10 35	+13.5	9.4	88 40	+15.4	+6.0		2246.6		+603	+269	1,279,667	457,533
404	990		9 35	-	10.1	88 40	+23.0	+12.9		2253.5		+911	+388	1,279,975	457,652
405	1311		5 35	-	13.0	88 40	+30.5	+17.5		2258.1		+1239	+429	1,280,303	457,693
406	1635		3 32 16	-	14.1	88 40	+38.0	+23.9		2264.5	TP	+1563	+479	1,280,625	457,744
406	1635			-	14.0	271 20	+38.0	+24.0			TP	-2	+1		
	1791		184 56 58		14.3	90 50	+26.0	+40.3	2304.8		BS	+1699	+567		
	1791				14.2	269 10	+26.0	+40.2			BS	-2	+1		
407	1460		184 -		14.0	90 50	-21.2	-35.2		2269.6		-1392	-439	1,280,930	457,873
408	1133		183 10	+13.5	13.5	90 50	-16.5	-30.0		2274.8		-1085	-325	1,281,237	457,987
409	803		184 35		11.3	90 50	-11.7	-23.0		2281.8		-763	-249	1,281,559	458,063
410	473		184 10	-	8.6	90 50	-6.9	-15.5		2289.3		-451	-144	1,281,871	458,168
411	143		180 45	-	7.2	90 50	-2.1	-9.3		2295.5		-139	-35	1,282,183	458,277
X	0				5.1	-		-5.1		2299.7	TP	0	0	1,282,322	458,312
412	192		18 20		6.2	88 50	+3.9	-2.3		2302.5		+163	+101	1,282,485	458,413

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3-12-86		B. Cotcamp		B. SALDIVAR		6834		J.M.		5		31			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		DUTCH FLAT S.W. - 7 1/2'		AZ.		MOHAVE								J. McClellan	
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									2304.8						
413	520		15 -	+13.5	6.2	88° 50'	+10.6	+4.4		2309.2		+457	+248	1,282,779	458,560
414	850		- -	-	6.8	88° 50'	+17.3	+10.5		2315.3		+747	+506	1,283,069	458,818
415	1180		- -	-	7.3	88° 50'	+24.0	+16.7		2321.5		+1037	+563	1,283,359	458,875
Bm	1365		15° 34' 55"		9.7	88° 40'	+31.8	+22.1		2326.9	Bm	+1193	+663	1,283,515	458,975
416	1508		15 -	-	11.8	88° 40'	+35.1	+23.3		2328.1		+1325	+720	1,283,647	459,032
417	1838		15° 30'		13.0	88° 40'	+42.8	+29.8		2334.6		+1608	+891	1,283,930	459,203
418	2168		15° 12'	+13.5	10.4	88° 46'	+46.7	+36.3		2341.1		+1902	+1041	1,284,224	459,353
419	2496	2495.4	14° 10'		11.0	88° 46'	+53.7	+42.7		2347.5		+2210	+1159	1,284,532	459,471
TP	2631	2630.3	13° 30' 10"	-	15.0	88° 40'	+61.2	+46.2		2351.0	TP	+2344	+1194	1,284,663	459,507
TP	2631			-	14.9	271° 20'	+61.2	+46.3			TP	-3	"		
	1549		186° 42' 32"	-	8.8	91 -	+27.0	+35.8		2386.8	BS	+1453	+535		
	1549				8.7	269 -	+27.0	+35.7			BS	-3	"		
420	1364		188° 30'		21.6	90° 30'	-11.9	-33.5		2353.3		-1265	-511	1,284,848	459,532
421	1050		193° 05'	+13.5	9.0	91 -	-18.3	-27.3		2359.5		-939	-470	1,285,174	459,573
422	733		199 -		9.2	91 -	-12.8	-22.0		2364.8		-618	-394	1,285,495	459,649
423	402		197° 50'	-	6.5	91 -	-7.0	-13.5		2373.3		-343	-209	1,285,770	459,834
424	72		191° 50'	-	5.3	91 -	-1.3	-6.6		2380.2		-65	-31	1,286,048	460,012
π	0				5.1	-		-5.1		2381.7	π	0	0	1,286,113	460,043
425	257		10° 46'	-	5.8	88° 40'	+6.0	+0.2		2387.0		+234	+105	1,286,347	460,148
426	587		9° 45'	-	6.9	88° 40'	+13.7	+6.8		2393.6		+539	+232	1,286,652	460,275

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224 1431 EL. 2327.0

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3-12-86		B. Cotcamp		B. SALDIVAR		6834		F.M.		5		32			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		DUTCH FLAT S.W. -7 1/2'		AZ.		MOHAVE								J. Mc Clellan	
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
									2386.8						
427	917		9° 45'	+13.5	8.3	88° 40'	+21.3	+13.0		2399.8		+843	+362	1,286,956	460,405
428	1247		10° 30'	-	9.1	88° 40'	+29.0	+19.9		2406.7		+1139	+507	1,287,252	460,550
429	1577		' - ,	-	9.8	88° 40'	+36.7	+26.9		2413.7		+1441	+641	1,287,554	460,684
430	1903		9° 10'	-	11.1	88° 40'	+44.3	+33.2		2420.0		+1756	+733	1,287,869	460,776
431	2231	2230.4	8° 20'		10.9	88° 40'	+51.9	+41.0		2427.8		+2070	+830	1,288,183	460,873
432	2559	2558.3	7° 46'	+17.5	12.9	88° 38'	+61.0	+48.1		2434.9		+2384	+928	1,288,497	460,971
433	2889	2888.2	7° 10' 38"		13.9	88° 38'	+68.9	+55.0	+55.1	2441.9	TP	+2702	+1020	1,288,812	461,064
433	2889				13.6	271° 22'	+68.9	+55.3			TP	-3	-1		
	1952		176° 44' 22"		+13.0	90° 52'	+29.5	+42.5	+42.5	2448.3	BS	+1921	+347		
	1952				+12.7	269° 08'	+29.5	+42.2			BS	-3	+1		
434	1626		178° -	+17.5	13.9	90° 52'	-24.6	-38.5		2445.8		-1593	-324	1,289,137	461,088
435	1296		179° - ,	-	13.1	90° 50'	-18.9	-32.0		2452.3		-1265	-281	1,289,465	461,131
436	968		178° 40'	-	11.9	90° 50'	-14.1	-26.0		2458.3		-946	-204	1,289,784	461,208
437	638		176° 55'	-	8.9	90° 50'	-9.3	-18.2		2466.1		-627	-115	1,290,103	461,297
438	310		171° 10'		8.2	90° 30'	-2.7	-10.9		2473.4		-309	-25	1,290,421	461,387
+	491		159° 41' 08"		8.0	90° 28'	-4.0	-12.0		2472.3	+	-488	+58	1,290,240	461,470
+	0				5.1	-		-5.1		2479.2	+	0	0	1,290,730	461,412
439	83		80° 15'	+13.5	5.7	88° 50'	+1.7	-4.0		2480.3		-5	+83	1,290,725	461,495
440	383		32° 30'	-	5.2	88° 40'	+8.9	+3.7		2488.0		+266	+276	1,290,996	461,688
441	713		32° 40'	-	6.3	88° 40'	+16.6	+10.3		2494.6		+494	+514	1,291,224	461,926

1316
4119
SECTION CORNER P15
HORIZ 3 -57
CORR. X -413

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY			LINE NO.		PAGE		
3-12-86		B. Cotcamp		B. SALDIVAR		6834		J.M.			5		33		
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		DUTCH FLAT S.E. - 7 1/2		AZ.		MOHAVE								J. McCLELLAN	
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
									2484.3						
442	1043		33° 15'	+13.5	7.2	88° 40'	+24.3	+17.1		2501.4		+715	+760	1,291,445	462,172
443	1373		33° 30'	-	7.2	88° 40'	+32.0	+24.8		2509.1		+936	+1004	1,291,666	462,416
444	1703		34° 10'	-	17.4	88° 20'	+49.5	+32.1		2516.4		+1147	+1259	1,291,877	462,671
445	2032	2031.3	34° 53' 33"	+13.3	14.5	88° 30'	+53.2	+38.7	238.8	2523.1	TP	+1354	+1514	1,292,084	462,926
445	2032			-	14.2	271° 30'	+53.2	+39.0			TP				
	1778		196° 19' 03"	-	13.2	91° -	+31.0	+44.2	44.1	2567.2	BS	+1545	+879		
	1778			-	12.9	269° -	+31.0	+43.9			BS				
446	1465		192° 30'	+13.3	12.7	91° -	-25.6	-38.3		2528.9		-1319	-638	1,292,310	463,167
447	1141		189° 50'		11.0	91° -	-19.9	-30.9		2536.3		-1049	-448	1,292,580	463,357
448	815		187° 20'		11.5	91° -	-14.2	-25.7		2541.5		-763	-287	1,292,866	463,518
449	490		183° 20'	-	9.4	91° -	-8.6	-18.0		2549.2		-470	-140	1,293,159	463,665
450	161		181° 40'	-	8.8	91° -	-2.8	-11.6		2555.6		-156	-42	1,293,473	463,763
Σ	0			-	5.1	-		-5.1		2562.1	Σ	0	0	1,293,629	463,805
451	173		27° -	-	5.7	88° 30'	+4.5	-1.2		2566.0		+132	+112	1,293,761	463,917
452	504		-	-	8.6	88° 30'	+13.2	+4.6		2571.8		+384	+326	1,294,013	464,131
453	834		-	-	8.6	88° 30'	+21.8	+13.2		2580.4		+636	+539	1,294,265	464,344
454	1164		27° 20'	+13.3	9.8	88° 30'	+30.5	+20.7		2587.9		+883	+758	1,294,512	464,563
455	1494		26° 55'	-	10.4	88° 30'	+39.1	+28.7		2595.9		+1141	+965	1,294,770	464,770
456	1823	1822.4	25° 10'	-	12.1	88° 30'	+47.7	+35.6		2602.8		+1427	+1134	1,295,056	464,939
457	2152	2151.3	24° -		13.9	88° 30'	+56.3	+42.4		2609.6		+1711	+1304	1,295,340	465,109

DUTCH FLAT S.W. - 7 1/2 ↑
DUTCH FLAT S.E. - 7 1/2 ↓

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3-12-86		B. Cotamp		B. SALDIVAR		6834		F.M.		5		34			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		DUTCH FLAT S.E. - 7 1/2'		AZ.		MOHAVE								J. Mc CLELLAN	
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
									2567.2						
458	2480	2479.2	23° 50'	-	12.4	88° 30'	+64.9	+52.5		2619.7		+1977	+1497	1,295,606	465,302
459	2809	2808.2	23° 35'	+13.3	7.2	88° 38'	+67.0	+59.8		2627.0		+2246	+1685	1,295,875	465,490
460	3137	3136.0	24° 03' 30"	-	13.2	88° 34'	+78.5	+65.3	65.4	2632.6	TP	+2493	+1903	1,296,122	465,208
460	3137				12.9	271° 26'	+78.5	+65.6			TP				
	1311		207° 57' 55"		+12.4	91° -	+22.9	+35.3	2667.9		BS	+985	+865		
	1311				+12.3	269° -	+22.9	+35.2			BS				
461	985		205° 10'	✓	10.1	91° -	-17.2	-27.3		2640.6		-771	-613	1,296,336	465,960
462	658		202° 40'	-	9.3	91° -	-11.5	-20.8		2647.1		-533	-386	1,296,574	466,187
463	330		199° 10'	-	6.2	91° -	-5.8	-12.0		2655.9		-278	-177	1,296,829	466,396
464	0				5.1	-		-5.1		2662.8	A	0	0	1,297,107	466,573
465	329		34° 15'	+13.3	7.3	88° 40'	+7.7	+0.4		2668.3		+222	+243	1,297,329	466,816
466	659		35° 20'	-	9.0	88° 40'	+15.3	+6.3		2674.2		+436	+495	1,297,543	467,068
467	987		33° 10'	-	10.3	88° 30'	+25.8	+15.5		2683.4		+680	+716	1,297,782	467,289
468	1315		31° 15'	✓	9.9	88° 30'	+34.4	+24.5		2692.4		+937	+923	1,298,044	467,496
469	1645	1644.4	31° 35'	✓	10.8	88° 30'	+43.1	+32.3		2700.2		+1165	+1160	1,298,272	467,733
470	1973	1972.3	30° 10'		12.0	88° 30'	+51.7	+39.7		2707.6		+1431	+1357	1,298,538	467,930
471	2301	2300.2	30° 22' 21"	+13.3	15.1	88° 30'	+60.2	+45.1			TP	+1664	+1588	1,298,771	468,161
471	2301				15.0	271° 30'	+60.2	+45.2		2713.1	TP				
	1211		219° 15' 33"	-	+11.3	91° -	+21.1	+32.4	2745.5		BS	+736	+961		
	1211				+11.2	269° -	+21.1	+32.3			BS				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 3-12-86	INSTRUMENT MAN B. Cotcamp	ROD MAN B. SALDIVAR	PARTY NUMBER 6834	NOTES CHECKED BY B.S J.M.	LINE NO. 5	PAGE 35
AREA ARIZONA	TOPO MAP DUTCH FLAT SE 1/4	STATE AZ.	COUNTY MOHAVE	TWP	RANGE	PPM
				PARTY MANAGER J. McCLELLAN		

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.			
									27455							
472	881		221° 05'	+13.3	10.3	91° -	-15.4	-25.0		2719.8		-513	-716	1,298,994	468,406	
473	551		220° -	-	7.9	91° -	-9.6	-17.5		2778.0		-329	-442	1,299,178	468,680	
474	233		208° 30'	-	7.4	91° -	-4.1	-11.5		2734.0		-174	-155	1,299,333	468,967	
TK	0				5.1	-		-5.1		2740.4	TK	0	0	1,299,507	469,122	
475	103		56° 30'	-	6.6	-		-6.6		2738.9		+36	+97	1,299,543	469,219	
476	432		45° 45'	-	7.8	89° -	+7.5	-0.3		2745.2		+222	+370	1,299,729	469,492	
477	762		44° 35'	+13.3	5.6	89° -	+13.3	+7.7		2753.2		+405	+645	1,299,912	469,767	
478	1093		43° 55'		6.0	88° 50'	+22.3	+16.3		2761.8		+592	+919	1,300,099	470,041	
479	1423		- -		6.3	88° 50'	+29.0	+22.0		2768.2		+771	+1196	1,300,278	470,318	
480	1747		42° 50'	-	10.8	88° 40'	+40.7	+29.9		2775.4		+974	+1451	1,300,481	470,573	
481	2077	2076.4	42° 40'	+13.3	13.2	88° 40'	+48.3	+35.1		2780.6		+1162	+1721	1,300,669	470,843	
Bm	2363	2362.4	43° 23' 06"	-	12.7	88° 44'	+52.2	+39.5		2785.0	Bm	+1298	+1974	1,300,805	471,096	4-1,300,180 x -471,060 22 U 1931 EL. 2785.0
Bm	2363				12.6	271° 16'	+52.2	+39.6			Bm					

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3-8-86		B. Cotamp		B. SALDIVAR		6834		B. S J.M.		5		36			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		DUTCH FLAT S.E. -7 1/2'		AZ.		MOHAVE								G. Mc CLELLAN	
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
										2785.0			1,300,780	471,060	
	1841		213 32 09	+13.3	12.5	91 -	+32.1	+44.6			BS	+1259	+1313		
	1841				12.2	269 -	+32.1	+44.3	2827.4		BS				
482	1787		214 10	-	13.7	91 -	-31.2	-44.9		2784.5		-1268	-1317	1,300,831	471,086
483	1458		213 10	-	9.8	91 -	-25.4	-35.2		2794.2		-1004	-1657	1,301,035	471,346
484	1136		210 45	-	8.7	91 -	-19.8	-28.5		2800.9		-816	-790	1,301,223	471,613
485	810		206 55	-	8.8	91 -	-14.1	-22.9		2806.5		-617	-523	1,301,422	471,880
486	496		197 40	-	10.2	91 -	-8.7	-18.9		2810.5		-425	-255	1,301,614	472,148
487	173		186 15	-	7.0	91 -	-3.0	-10.0		2819.4		-163	-58	1,301,876	472,345
	π	0			5.1	-		-5.1		2824.3	π	0	0	1,302,039	472,403
488	170		40 10	+13.3	8.0	89 -	+3.0	-5.0		2824.4		+101	+137	1,302,140	472,504
489	500		40 05	-	9.5	89 -	+8.7	-0.8		2828.6		+298	+401	1,302,337	472,804
490	829		42 50	-	12.0	89 10	+12.1	+0.1		2829.5		+462	+688	1,302,501	473,091
491	1157		42 -	-	12.0	89 10	+16.8	+4.8		2834.2		+659	+951	1,302,698	473,354
492	1479		39 10	-	6.3	89 10	+21.5	+15.2		2844.6		+901	+1173	1,302,940	473,576
493	1806		37 20	-	13.8	88 54	+34.7	+20.9		2850.3		+1146	+1396	1,303,185	473,799
494	2133		35 56 33	-	11.1	89 -	+37.2	+26.1	26.2	2855.6	TP	+1392	+1615	1,303,431	474,018
494	2133				10.8	271 -	+37.2	+26.4			TP				
	1354		222 31 10	+13.3	15.0	90 48	+18.9	+33.9			BS	+761	+1120		
	1354				14.9	262 12	+18.9	+33.8	2889.4		BS				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3-18-86		B. Cotcamp		B. SALDIVAR		6834		B.S. J.M.		5		37			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		DUTCH FLATS.E. -7 1/2'		AZ.		MOHAVE								J. McCLELLAN	
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
									2889.4						
495	1035		226 30	+13.3	10.0	91 -	-18.1	-28.1		2861.3		-521	-895	1,303,671	474,243
496	705		228 45	-	11.6	91 -	-12.3	-23.9		2865.5		-330	-623	1,303,862	474,515
497	375		- -	-	9.1	91 -	-6.5	-15.6		2873.8		-176	-331	1,304,016	474,807
498	52		244 -	-	6.9	91 -	-0.9	-7.8		2881.6		-11	-51	1,304,181	475,087
π	0				5.1	-		-5.1		2884.3	π	0	0	1,304,192	475,138
499	289		28 35	+13.3	8.9	89 -	+5.0	-3.9		2885.5		+215	+193	1,304,407	475,331
500	618		24 35	-	8.5	89 -	+10.8	+2.3		2891.7		+488	+379	1,304,680	475,517
501	945		23 05	-	8.7	89 -	+16.5	+7.8		2897.2		+761	+561	1,304,955	475,699
502	1272		20 45	-	20.0	88 43	+28.5	+8.5		2892.9		+1054	+712	1,305,246	475,850
503	1598		18 10	-	22.0	88 40	+37.2	+15.2		2904.6		+1363	+834	1,305,555	475,972
504	1926		17 20 22	-	10.8	89 -	+33.6	+22.8	+22.9	2912.3	TP	+1657	+981	1,305,849	476,119
504	1926				10.5	271 -	+33.6	+23.1			TP				
	5205	5202.6	203 54 16	+13.3	12.5	91 44	+157.4	+169.9			BS	+4144	+3146		
	5205				+12.0	268 16	+157.4	+169.4	+169.4	33081.9	BS				
505	4878	4875.5	204 37	-	12.4	91 50	-156.1	-168.5		2913.4		-3846	-2996	1,306,147	476,269
506	4562	4559.3	205 20	-	8.2	91 58	+156.6	-164.8		2917.1		-3562	-2847	1,306,431	476,418
507	4239	4236.5	206 32	-	12.8	91 58	-145.5	-158.3		2923.6		-3253	-2714	1,306,740	476,551
508	3920	3917.4	207 48	-	6.2	92 06	-143.6	-149.8		2932.1		-2952	-2575	1,307,041	476,690
509	3592	3589.6	208 20	-	9.8	92 06	-131.6	-141.4		2940.5		-2683	-2385	1,307,310	476,880
510	3265	3262.8	209 10	-	11.7	92 06	-119.6	-131.3		2950.6		-2407	-2203	1,307,586	477,062

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3-18-86		B. Cotcamp		B. SALDIVAR		6834		B.S J.M.		5		38			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZ.		Dutch FLAT S.E.-7 1/2		AZ.		MOHAVE								J. Mc CLELLAN	
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
									30819						
511	2935	2932.6	209° 45'	+13.3	5.8	92° 20'	-119.5	-125.3		2956.6		-2143	-2002	1,307,850	477,263
512	2611	2608.8	210° 40'	-	10.1	92° 20'	-106.3	-116.4		2965.5		-1878	-1811	1,308,115	477,454
513	2291	2288.8	212° 45'	-	8.1	92° 30'	-99.9	-108.0		2973.9		-1589	-1648	1,308,404	477,617
514	1986	1984.1	215° 55'	-	12.8	92° 30'	-86.6	-99.4		2982.5		-1296	-1502	1,308,697	477,763
515	1682	1679.9	220° 05'	-	8.2	92° 50'	-83.1	-91.3		2990.6		-1002	-1348	1,308,991	477,917
516	1391	1389.1	224° -	+13.3	11.5	93° -	-72.8	-84.3		2997.6		-750	-1169	1,309,243	478,096
517	1077	1075.6	231° 10'	-	10.8	93° 30'	-65.7	-76.5		3005.4		-463	-970	1,309,530	478,295
518	822	820.0	243° 57'	-	12.7	94° -	-57.3	-70.0		3011.9		-181	-800	1,309,812	478,465
519	582	579.3	263° 20'	-	8.4	95° 30'	-55.8	-64.2		3017.7		+67	-575	1,310,060	478,690
520	448	446.2	298° 40'	-	19.2	95° 08'	-40.1	-59.3		3022.6		+298	-332	1,310,291	478,933
Σ	0				5.1	-		-5.1		3076.8	Σ	0	0	1,309,993	479,265
521	521	519.6	336° 15'	+13.3	10.7	94° 10'	-37.9	-48.6		3033.3		+511	-94	1,310,504	479,171
522	761	760.2	358° 20'	-	8.0	92° 40'	-35.4	-43.4		3038.5		+745	+153	1,310,238	479,418
523	1046		8° 50'	-	8.7	91° 30'	-27.4	-36.1		3045.8		+969	+394	1,310,962	479,659
524	1352		14° 30'	-	6.7	91° -	-23.6	-30.3		3051.6		+1196	+631	1,311,189	479,896
525	1667		18° 25'	-	8.2	90° 30'	-14.5	-22.7		3059.2		+1418	+876	1,311,411	480,141
526	1989		20° 50'	-	11.0	90° 10'	-5.8	-16.8		3065.1		+1646	+1116	1,311,639	480,381
527	2311		22° 25'	-	7.8	-		-7.8		3074.1		+1876	+1349	1,311,869	480,614
Σ	2418		22° 48' 02"	-	6.4	-		-6.4		3075.5		+1954	+1425	1,311,947	480,690

OFF LINE ON TOP OF HILL

1-1,311,780 x - 480,700
TIT - 2418 EL. 3075.0

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO		PAGE			
3-18-86		B. Cotcamp		B. SALDIVAR		6834		B.S. J.M.		5		39			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		DUTCH FLAT S.E. - 7 1/2'		AZ.		MOHAVE								J. Mc CLELLAN	
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
									3081.9						
528	2381		29 22	+13.3	7.0	-	-7.0			3074.9		+ 1751	+1614	1,311,244	480,879
529	2408		37 20	-	8.1	-	-8.1			3073.8		+ 1527	+1862	1,311,520	481,127
530	2479		44 55	-	5.7	-	-5.7			3076.2		+ 1306	+2107	1,311,299	481,372
531	2563		52 05	-	6.9	-	-6.9			3075.0		+ 1068	+2330	1,311,061	481,595
532	2702		58 40	-	8.9	-	-8.9			3073.0		+ 836	+2569	1,310,829	481,834
533	2884		64 25	-	10.8	-	-10.8			3071.1		+ 614	+2818	1,310,607	482,083
TP	3031		68 05 48	-	10.6	-	-10.6	10.5		3071.4	TP	+453	+2997	1,310,446	482,262
TP	3031			-	10.3	270	-10.3				TP				
	1381		293 58 45	+13.5	14.2	-	+14.2				BS	-840	+1096		
	1381				14.1	270	+14.1		3085.5		BS				
534	1294		293 50	-	8.3	BH	-6.5	-14.8		3070.7		+ 785	-1029	1,310,391	482,329
535	965		293 05	-	13.9	BH	-4.8	-18.7		3066.8		+ 575	-775	1,310,181	482,583
536	637		290 40	-	12.1	90 30	-5.6	-17.7		3067.8		+ 358	-527	1,309,964	482,831
537	312		283 40	-	9.4	90 30	-2.7	-12.1		3073.4		+142	-278	1,309,748	483,080
K	0				5.1	-	-5.1			3080.4	K	0	0	1,309,606	483,358
538	48		181 30	+13.5	8.7	90 30	-0.4	-9.1		3076.4		-46	-12	1,309,566	483,716
539	349		114 50	-	6.7	90 30	-3.0	-9.7		3075.8		-216	+274	1,309,390	483,632
540	677		111 45	-	8.5	-	-8.5			3077.0		-391	+553	1,309,215	483,911
541	1007		-	-	7.7	-	-7.7			3077.8		-581	+822	1,309,025	484,180
542	1336		113 05	-	8.8	-	-8.8			3076.7		-796	+1073	1,308,810	484,431

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3-18-86		B. Cotcamp		B. SALDIVAR		6834		B.S. J.M.		5		40			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		DUTCH FLAT S.E. - 7 1/2'		AZ.		MOHAVE								J. M. CLELLAN	
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
									3085.5						
543	1663		115 50	+13.5	13.0	-		-13.0		3072.5		-1054	+1286	1,308,552	484,644
TP	1661		115 34 45	-	12.9	-		-12.9	-12.8 1/2	3072.7	TP	-1047	+1289	1,308,559	484,647
TP	1661				12.6	270 -		-12.6			TP				
	1316		303 49 33	-	+13.9	89 20	-15.3	-1.4			BS	-967	+892		
	1316				+13.8	270 40	-15.3	-1.5		3071.2	BS				
544	988		302 20	-	10.5	89 30	+8.6	-1.9		3069.3		+709	-688	1,308,301	484,851
545	659		300 20	-	7.0	89 30	+5.8	-1.2		3070.0		+456	-475	1,308,048	485,064
546	330		298 20	-	9.6	89 30	+2.9	-6.7		3064.5		+220	-246	1,307,812	485,293
547	0				5.1	-		-5.1		3066.1	TP	0	0	1,307,592	485,539
Δ	338		141 58 47	+13.5	9.5	89 30	+3.0	-6.5		3064.7	Δ	-308	+140	1,307,284	485,679
548	330		114 40	-	11.0	89 30	+2.9	-8.1		3063.1		-204	+259	1,307,388	485,798
549	660		-	-	10.8	89 30	+5.8	-5.0		3066.2		-408	+519	1,307,184	486,058
550	990		-	-	11.3	89 30	+8.6	-2.7		3068.5		-612	+778	1,306,980	486,317
551	1320		-	-	12.4	89 30	+11.5	-0.9		3070.3		-816	+1038	1,306,726	486,577
552	1650		-	-	10.9	89 30	+14.4	+3.5		3074.7		-1020	+1297	1,306,572	486,836
553	1942		110 21 12	-	14.5	89 18	+23.7	+9.2	12.9 3/4	3080.5	TP	-1082	+1613	1,306,509	487,152
553	1942				14.2	270 42	+23.7	+9.5			TP				
	658		247 03 30	+13.5	11.1	-		+11.1		3091.6	BS	+108	+649		
	658				+7.8	B4	+3.3	+11.1			BS	-1			

9-1,307,305 x - 485,675
M-11 1927 EL. 3064.0

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE					
3-18-86		B. Cotcamp		B. SALDIVAR		6834		B.S. J.M.		5		41					
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER			
ARIZONA		DUTCH FLAT S.E. - 7 1/2		AZ.		MOHAVE								J. Mc CLELLAN			
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		
									3091.6								
554	330		242' 25'	+135	6.3	-		-6.3		3085.3		-80	-320	1,306,536	487,481		
555	0				5.1	-		-5.1		3086.5	TP	0	0	1,306,616	487,801	Y = 1,306,610 x -487,760 y - Inter.	
556	330		18' 38"	-	8.2	89 -	+5.8	-2.4		3089.2		+279	+176	1,306,895	487,977		
557	660		- -	-	6.8	89 -	+11.5	+4.7		3096.3		+559	+351	1,307,175	488,152		
558	990		- -	-	6.2	89 -	+17.3	+11.1		3102.7		+838	+527	1,307,454	488,328		
559	1320		18' 38"	-	7.7	89 -	+23.0	+15.3		3106.9		+1118	+702	1,307,734	488,503		
560	1650		- -	+13.5	9.8	89 -	+28.8	+19.0		3110.6		+1397	+878	1,308,013	488,679		
561	1980		- -	-	8.3	89 -	+34.6	+26.3		3117.9		+1677	+1053	1,308,293	488,854		
562	2312		17' 59" 01	-	9.9	89 -	+40.4	+30.5		3122.1	TP	+1971	+1207	1,308,586	489,008	across sta.	
562	2312				9.8	271 -	+40.4	+30.6			TP	-1					
	3302	3301.5	198' 10" 03	-	11.3	91 -	+57.6	+68.9			BS	+2810	+1733				
	3302				11.0	269 -	+57.6	+68.6	68.7	3190.8	BS	-1					
563	2970		198 -	-	12.7	91 -	-51.8	-64.5		3126.3		-2532	-1552	1,308,863	489,189		
564	2640		- -	-	13.3	91 -	-46.1	-59.4		3131.4		-2251	-1379	1,309,144	489,362		
565	2310		198' 16"	+13.5	12.0	91 -	-40.3	-52.3		3138.5		-1964	-1216	1,309,431	489,525		
566	1980		- -	-	12.4	91 -	-34.6	-47.0		3143.8		-1683	-1042	1,309,712	489,699		
567	1650		- -	-	13.3	91 -	-28.8	-42.1		3148.7		-1403	-869	1,309,992	489,872		
568	1320		- -	-	11.0	91 10	-26.9	-37.9		3152.9		-1122	-695	1,310,273	490,046		
569	990		- -	-	11.2	91 10	-20.2	-31.4		3159.4		-842	-521	1,310,553	490,220		
570	660		- -	-	6.7	91 10	-13.4	-20.1		3170.7		-561	-347	1,310,834	490,394		

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
3-18-86		B. Cotcamp		B. SALDIVAR		6834		B.S J.M.		5		42				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
ARIZONA		DUTCH FLATS S.E. - 7 1/2'		AZ.		MOHAVE								J. McCLELLAN		
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
									3190.8							
571	330		198 16	+13.5	8.7	91 10	-6.7	-15.4		3175.4		-281	-174	1,311,114	490,567	
572	0				5.1	-		-5.1		3185.7	TP	0	0	1,311,395	490,741	
573	330		17 36	-	11.7	89 10	+4.8	-6.9		3183.9		+283	+170	1,311,628	490,911	
574	660		-	-	5.8	88 50	+13.4	+7.6		3198.4		+565	+341	1,311,960	491,082	
575	990		-	-	8.7	88 50	+20.2	+11.5		3202.3		+848	+511	1,312,243	491,252	
576	1320		-	-	8.0	88 50	+26.9	+18.9		3209.7		+1130	+682	1,312,525	491,423	
577	1650		17 36	+13.5	10.2	88 50	+33.6	+23.4		3214.2		+1413	+852	1,312,808	491,593	
578	1980		-	-	14.2	88 50	+40.3	+26.1		3216.9		+1695	+1023	1,313,090	491,764	
579	2310		-	-	11.3	88 50	+47.0	+35.7		3226.5		+1978	+1193	1,313,373	491,934	
580	2640		-	-	7.1	88 50	+53.8	+46.7		3237.5		+2261	+1364	1,313,656	492,105	
581	2970	2969.4	-	-	13.7	88 50	+60.5	+46.8		3237.6		+2543	+1534	1,313,938	492,275	
582	3300	3299.3	17 45	-	14.1	88 50	+67.2	+53.1		3243.9		+2821	+1712	1,314,216	492,453	
583	3632	3631.3	17 35 28	-	10.0	88 50	+74.0	+64.0	TP	3254.9	TP	+3110	+1875	1,314,504	492,616	ACCESS STA.
583	3632				9.7	271 10	+74.0	+64.3			TP	-				
	2307		197 37 50	+13.5	11.9	91 10	+47.0	+58.9			BS	+1974	+1192			
	2307				11.8	268 50	+47.0	+58.8		3313.7	BS	-				
584	1980		196 55	-	10.7	91 10	-40.3	-51.0		3262.0		-1707	-1002	1,314,770	492,806	
585	1650		196 18	-	11.7	91 10	-33.6	-45.3		3268.4		-1432	-820	1,315,045	492,988	
586	1320		-	-	10.2	91 10	-26.9	-37.1		3276.6		-1145	-656	1,315,332	493,152	
587	990		-	-	7.1	91 10	-20.2	-27.3		3286.4		-859	-492	1,315,618	493,316	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	3-18-86	INSTRUMENT MAN	B. Cotcamp	ROD MAN	B. SALDIVAR	PARTY NUMBER	6834	NOTES CHECKED BY	B.S. J.M.	LINE NO.	5	PAGE	43	
AREA	ARIZONA	TOPO MAP	DUTCH FLATS S.E. - 7 1/2'	STATE	AZ.	COUNTY	MOHAVE	TWP		RANGE		PPM	PARTY MANAGER	J. McCLELLAN

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		REMARKS
														Y	X	
									3313.7							
588	660		196 18	+13.5	12.0	92 -	-23.0	-35.0		3228.7		-573	-328	1,315,904	493,480	
589	330		- -	-	9.6	91 -	-5.8	-15.4		3298.3		-286	-164	1,316,191	493,644	
590	0				5.1	-		-5.1		3308.6	TP	0	0	1,316,477	493,808	
591	330		18 16	-	7.4	89 30	+2.9	-4.5		3309.2		+281	+174	1,316,758	493,982	
592	660		- -	-	6.0	89 -	+11.5	+5.5		3319.2		+561	+347	1,317,038	494,155	
593	990		- -	-	13.6	88 30	+25.9	+12.3		3326.0		+842	+521	1,317,319	494,329	
594	1320		17 35	+13.5	11.6	88 30	+34.6	+23.0		3336.7		+1130	+682	1,317,607	494,490	
595	1650	1649.4	17 -	-	5.3	88 30	+43.2	+37.9		3351.6		+1421	+837	1,317,898	494,645	
596	1979	1978.3	16 30	-	4.2	88 30	+51.8	+47.6		3361.3		+1713	+989	1,318,190	494,797	
597	2309	2308.0	16 20	-	11.1	88 20	+67.2	+56.1		3369.8		+2002	+1148	1,318,479	494,950	
598	2639	2637.9	16 10	-	9.1	88 20	+76.8	+67.7		3381.4		+2292	+1306	1,318,769	495,114	DUTCH FLAT S.E. - 7 1/2'
599	2969	2967.5	- -	-	8.4	88 10	+95.0	+86.6		3400.3		+2579	+1469	1,319,056	495,277	BEECHER Canyon - 7 1/2'
600	3300	3298.3	16 09 12	-	11.8	88 10	+105.6	+93.8	493.9	3407.6	TP	+2866	+1632	1,319,342	495,440	
600	3300				11.5	271 50	+105.6	+94.1			TP	-	-			
	1649	1648.0	195 54 05	+13.5	4.3	92 -	+57.5	+61.8			BS	+1436	+809			
	1649				4.2	268 -	+57.5	+61.7	3469.3		BS	-	-			
601	1320	1318.7	195 54	-	8.0	92 30	-57.6	-65.6		3403.7		-1149	-647	1,319,628	495,602	
602	990	988.8	- -	-	10.8	92 50	-48.9	-59.7		3409.6		-861	-485	1,319,916	495,741	
603	660	659.2	- -	-	10.0	92 50	-32.6	-42.6		3426.7		-574	-324	1,320,203	495,925	
604	330		- -	-	8.7	92 50	-16.3	-25.0		3444.3		-288	-162	1,320,489	496,087	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3-18-86		B. Cotcamp		B. SALDIVAR		6834		B.S. J.M.		5		44			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		BEECHER Canyon 7 1/2		AZ.		MOHAVE								J. McCLELLAN	
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
									3469.3						
605	0				5.1	-		-5.1		3464.2	π	0	0	1,320,777	496,249
606	330		15 55	+13.5	10.3	90° 50'	-4.8	-15.1		3454.2		+287	+162	1,321,064	496,411
607	660		-	-	11.9	89° 50'	+1.9	-10.0		3459.3		+575	+324	1,321,352	496,573
608	990		-	-	5.9	88° 50'	+20.2	+14.3		3483.6		+862	+486	1,321,639	496,735
609	1319		15 56 36	-	11.0	88° 40'	+30.7	+19.7		3489.0	TP	+1148	+648	1,321,924	496,897
609	1319				10.9	271° 20'	+30.7	+19.8			TP	-	-		
	883		197 21 22	+13.5	7.5	91° 30'	+23.1	+30.6			BS	+758	+453		
	883				7.4	268° 30'	+23.1	+30.5	3519.5		BS	-	-		
610	553	551.9	197 20	-	11.6	93° 40'	-35.4	-47.0		3472.5		-474	-283	1,322,207	497,067
611	223		-	-	5.7	93° 40'	-14.3	-20.0		3499.5		-191	-114	1,322,490	497,236
π	0				5.1	-		-5.1		3514.4	π	0	0	1,322,681	497,350
612	109		16 49	-	7.1	92° 10'	-4.1	-11.2		3508.3		+94	+55	1,322,725	497,405
613	439		-	-	14.2	92° 10'	-16.6	-30.8		3488.7		+379	+222	1,323,060	497,572
614	769		-	-	7.7	91° 10'	-15.7	-23.4		3496.1		+664	+388	1,323,345	497,738
#1	844		16 12 28	-	8.7	91° -	-14.7	-23.4		3496.1	#1	+733	+418	1,323,414	497,768
615	1098		16 49	-	7.2	-		-7.2		3512.3		+948	+554	1,323,629	497,904
616	1428		-	-	8.3	89° -	+24.9	+16.6		3536.1		+1233	+721	1,323,914	498,071
617	1758	1757.4	-	-	11.6	88° 30'	+46.0	+34.4		3553.9		+1517	+887	1,324,198	498,237
618	2088	2086.9	17 05	-	7.9	88° 10'	+66.8	+58.9		3578.4		+1797	+1062	1,324,478	498,412
619	2418	2416.5	-	-	8.9	88° -	+84.4	+75.5		3595.0		+2080	+1229	1,324,761	498,579

#1 y = 1,323,400 x = 497,765
- 7.176

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3-18-86		B. Cotcamp		B. SALDIVAR		6834		B.S. J.M.		5		45			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA				AZ.		MOHAVE								J. Mc CLELLAN	
STATION NO.	SLOPE DISTANCE	PLOT DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									3519.5						
620	2748	2746.0	16 50	+13.5	7.8	87 50	+103.9	+96.1		3615.6		+2370	+1387	1,325,051	498,737
621	3079	3076.8	16 24 03	-	2.9	87 50	+116.4	+113.5	+1136.3	3633.1	TP	+2667	+1534	1,325,347	498,884
621	3079				2.6	272 10	+116.4	+113.8			TP				
	2637		188 33 38	-	9.8	90 40	+30.7	+46.5			BS	+2444	+990		
	2637				9.5	269 20	+30.7	+40.2	+40.3	3673.4	BS	-1			
622	2308		188 15	-	12.7	90 40	-26.9	-39.6		3633.8		-2144	-855	1,325,646	499,019
623	1978		187 52	-	11.0	90 40	-23.0	-34.0		3639.4		-1842	-721	1,325,948	499,153
624	1648		188 20	+13.5	7.7	91 10	-33.6	-41.3		3632.1		-1530	-613	1,326,260	499,261
625	1319		189 15	-	12.9	91 10	-26.9	-39.8		3633.6		-1216	-510	1,326,574	499,364
626	990	989.3	190 10	-	7.7	92 10	-37.4	-45.1		3628.3		-906	-397	1,326,884	499,477
627	660		190 55	-	10.7	92 10	-25.0	-35.7		3637.7		-601	-273	1,327,189	499,601
628	330		192 -	-	13.0	92 10	-12.5	-25.5		3647.9		-298	-142	1,327,492	499,732
629	0				5.1	-	-	-5.1		3668.3	X	0	0	1,327,790	499,874
630	330		9 47	+13.5	7.2	88 -	+11.5	+4.3		3677.7		+303	+130	1,328,093	500,009
631	660		-	-	9.9	88 -	+23.0	+13.1		3686.5		+606	+261	1,328,396	500,135
632	990	989.4	10 05	-	9.7	88 -	+34.6	+24.9		3698.3		+907	+396	1,328,697	500,270
633	1320	1319.2	10 20	-	8.3	88 -	+46.1	+37.8		3711.2	H	+1207	+533	1,328,997	500,407
634	1650	1648.8	10 32	-	6.6	88 -	+57.6	+51.0		3724.4		+1506	+672	1,329,296	500,546
635	1979	1977.6	-	-	7.9	87 50	+74.8	+66.9		3740.3		+1806	+805	1,329,596	500,679
636	2309	2307.3	-	-	4.4	87 50	+87.3	+82.9		3756.3		+2107	+940	1,329,897	500,814

BEECHER CANYON 7 1/2
WIKIEUP N.W. 7 1/2

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3-18-86		B. Cotamp		B. SALDIVAR		6834		B. S. J.M.		5		46			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		Wikieup N.W. 7 1/2'		AZ.		MOHAVE								J. McClellan	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS A TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									3673.4						
637	2637	2634.8	9 50	+13.5	10.5	87 38	+108.9	+98.4		3771.8		+2419	+1044	1,330,209	500,918
638	2963	2959.6	8 47 51	-	10.5	87 14	+143.0	+132.5	-132.6	3806.0	TP	+2738	+1123	1,330,527	500,977
638	2963				10.2	272 46	+143.0	+32.8			TP	-1			across sta.
	1677	1673.9	178 23 40	-	+10.7	93 30	+102.4	+113.1			BS	+1638	+345		
	1677				+10.6	266 30	+102.4	+113.0	3919.0		BS	-1			
7F	1376	1372.6	178 32 42	-	9.7	94 -	-96.0	-105.7		3813.3		-1342	-286	1,330,822	501,056
639	1347	1343.7	178 23	-	10.4	94 -	-94.0	-104.4		3814.6		-1315	-277	1,330,844	501,065
640	1017	1013.9	178 45	-	9.0	94 30	-79.8	-88.8		3830.2		-991	-215	1,331,173	501,127
641	688	685.2	177 20	+13.5	9.1	95 10	-62.0	-71.1		3847.9		-673	-129	1,331,491	501,213
642	367	364.6	169 50	-	12.9	96 30	-41.5	-54.4		3864.6		-364	-21	1,331,800	501,321
643	108	105.2	105 55	-	12.0	103 10	-24.6	-36.6		3882.4		-52	+92	1,332,112	501,434
π	0				5.1	-		-5.1		3913.9	π	0	0	1,332,164	501,342
644	344		34 30	-	9.1	91 40	-10.0	-19.1		3899.9		+230	+256	1,332,394	501,598
645	672		31 42	-	7.1	89 30	+5.9	-1.2		3917.8		+474	+477	1,332,638	501,819
646	994	993.3	36 10	-	10.0	87 50	+37.6	+27.6		3946.6		+643	+757	1,332,807	502,099
TP	1266	1264.1	30 32 46	-	13.2	86 50	+69.9	+56.7		3975.7	TP	+909	+879	1,333,072	502,221
TP	1266				13.1	273 10	+69.9	+56.8			TP	-1			
	1860	1851.4	191 18 58	-	+9.7	95 30	+178.3	+188.0			BS	+1680	+777		
	1860				+9.4	264 30	+178.3	+187.7	37834163.5		BS	-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			
3-18-86		B. Cotcamp		B. SALDIVAR		6834		B.S. J.M.		5		47			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		Wikieup N.W-7 1/2'		AZ.		MOHAVE								J. McCLELLAN	
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
									4163.5						
647	1821	1812.6	191° 40'	+13.5	10.1	95° 30'	-174.5	-184.6		3978.9		-1641	-771	1,333,110	502,227
648	1509	1500.0	194° 45'	-	10.2	96° 16'	-164.7	-174.9		3988.6		-1321	-710	1,333,430	502,288
649	1186	1178.4	198° 05'	-	9.9	96° 30'	-134.3	-144.2		4019.3		-1004	-617	1,333,747	502,381
650	877	871.4	204° 50'	-	10.2	96° 30'	-99.3	-109.5		4054.0		-684	-540	1,334,067	502,458
651	584	580.2	216° 20'	-	10.3	96° 30'	-66.1	-76.4		4082.1		-374	-443	1,334,377	502,555
652	374	373.3	248° 30'	-	14.0	93° 24'	-22.2	-36.2		4127.3		-52	-370	1,334,699	502,628
653	191		306° 25'	-	9.3	93° 30'	-11.7	-21.0		4142.5		+146	-123	1,334,897	502,875
K	0				5.1	-		-5.1		4158.4	K	0	0	1,334,751	502,998
654	398		359° 50'	+13.5	8.1	91° 10'	-8.1	-16.2		4147.3		+387	+92	1,335,138	503,090
K	597		5° 00' 27"	-	7.6	96° 40'	-6.9	-14.5		4149.0	K	+566	+189	1,335,317	503,187
655	720		6° 10'	-	7.8	-		-7.8		4155.7		+678	+242	1,335,429	503,240
656	1042		10° 45'	-	10.3	88° 40'	+24.2	+13.9		4177.4		+950	+428	1,335,701	503,426
#	1135	1134.4	16° 00' 50"	-	11.0	88° 10'	+36.3	+25.3		4188.8	#	+987	+559	1,335,738	503,557
657	1213	1212.0	25° -	-	11.8	87° 38'	+50.1	+38.3		4201.8		+949	+754	1,335,700	503,752
TP	1331	1329.2	27° 23' 54"	+73.4	4.0	87° -	+69.7	+65.7		4229.2	TP	+1006	+868	1,335,756	503,865
TP	1331				3.9	273° -	+69.7	+65.8			TP	-1	-1		
											BS				
											BS				

5-1,335,275 x - 503,190
y - Inter

4-1,335,720 x - 503,950
Fence line + ramp

SURVEY NOTES-HIGH RESOLUTION DATA
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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
3-19-86		B. Cotcamp		B. SALDIVAR		6834		BS J.M.		5		48				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
ARIZONA		Wikieup N.W. -7 1/2'		AZ		MOHAVE								J. Mc CLELLAN		
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	NORTH + SOUTH - LAT.	EAST + WEST - DEP.	COORDINATES		REMARKS
														Y	X	
										4229.2						
	1113	1108.8	237 57 55	+134	13.3	95°	+97.0	+110.3			BS	+354	+1051		50	
	1113				13.2	265°	+97.0	+110.2	4339.4		BS	-1	-1			
658	930	925.2	234 40	-	11.4	95° 50	-94.5	-105.9		4233.5		-346	-858	1,335,263	504,057	
659	600	596.7	235 25	-	12.1	96°	-62.7	-74.8		4264.6		-216	-556	1,335,893	504,359	
660	272	268.7	240 50	-	12.6	99°	-42.6	-55.2		4284.2		-73	-259	1,336,036	504,656	
TP	0				5.1	-		-5.1		4334.3	TP	0	0	1,336,109	504,915	
661	86	84.9	12 10	+13.4	12.4	99°	-13.5	-25.9		4313.5		+77	+37	1,336,186	504,952	
662	386	383.6	55° 40	-	6.2	96 20	-42.6	-48.8		4290.6		+137	+358	1,336,246	505,273	
TP	506	502.9	51 53 32	-	5.5	96 20	-55.8	-61.3		4278.1	TP	+210	+457	1,336,318	505,371	
TP	506				5.5	263 40	-55.8	-61.3			TP	-1	-1			
	3992	3967.2	239 28 26	-	10.9	83 52	-426.5	-415.6			BS	+1169	+3773			
	3992				10.6	276 08	-426.5	-415.9	4158.3	3862.3	BS	-1	-1			
663	3842	3821.0	241 27	+13.4	11.0	84°	+401.6	+390.6		4252.9		-999	-3688	1,336,487	505,475	
664	3666	3647.9	245 05	-	7.8	84 18	+364.1	+356.3		4218.6		-728	-3574	1,336,758	505,589	
665	3634	3618.7	250 13	-	6.8	84 44	+333.6	+326.8		4189.1		-402	-3596	1,337,084	505,567	
666	3693	3680.6	255 15	-	8.0	85 18	+302.6	+294.6		4156.9		-87	-3680	1,337,399	505,483	
667	3523	3512.9	259 10	-	6.7	85 40	+266.2	+259.5		4121.8		+157	-3509	1,337,643	505,654	
668	3197	3189.8	260 10	-	5.3	86 10	+213.7	+208.4		4070.7		+198	-3184	1,337,684	505,979	
669	2868	2863.1	259 40	-	8.9	86 40	+166.8	+157.9		4020.2		+153	-2859	1,337,639	506,304	
670	2547	2543.9	258 15	-	7.8	87 10	+125.9	+118.1		3980.4		+73	-2543	1,337,559	506,620	

SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE					
3-19-86		B. Cotamp		B. SALDIVAR		B.S 6834		F.M.		5		49					
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER			
ARIZONA		Wikieup N.W-7 1/2		AZ		Mohave								J. McClellan			
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		REMARKS	
														Y	X		
									3862.3								
671	2230	2227.9	257 05	+134	7.7	87 30	+97.3	+89.6		3951.9		+19	-2228	1,332,505	506,935		
672	1912	1910.8	259 36	-	6.8	88 -	+66.7	+59.9		3922.2		+100	-1908	1,332,586	507,255		
673	1592		262 20	-	10.1	88 40	+37.0	+26.9		3889.2		+159	-1584	1,332,645	507,579		
674	1263		260 30	-	11.0	89 -	+22.0	+11.0		3873.3		+86	-1260	1,332,522	507,903		
675	934		259 05	-	13.1	-	-	-13.1		3849.2		+40	-933	1,332,526	508,230		
676	609	608.3	257 -	+134	6.0	92 40	-28.3	-34.3		3828.0		+4	-608	1,332,490	508,555		
677	319	315.4	274 08	-	6.7	98 40	-48.1	-54.8		3807.5		+95	-301	1,332,581	508,862		
+	390	389.0	286 47 12	-	0.0	94 12	-28.6	-28.6		3833.7	+	+196	-336	1,337,682	508,827	31345-1,337,700 X-58820 this section corner El. 3832.0 U.S.G.L.O.S. ELEV. CORRECTED @ this corner 3832.0	
π	0				5.1	-		-5.1		3857.2	π	0	0	1,337,486	509,163		
678	327	320.2	336 37	-	12.0	101 40	-66.1	-78.1		3784.2		+315	-56	1,332,801	509,107		
679	524	515.8	15 12	-	6.1	100 10	-92.5	-98.6		3763.7		+453	+247	1,332,939	509,410		
680	804	796.2	30 25	-	5.6	98 -	-111.9	-117.5		3744.8		+575	+551	1,338,061	509,714		
681	1131	1123.7	33 -	+134	7.9	96 30	-128.0	-135.9		3726.4		+775	+814	1,338,261	509,977		
682	1431	1423.0	39 30	-	6.7	96 -	-149.6	-156.3		3706.0		+858	+1135	1,338,344	510,298		
683	1741	1733.5	42 10	-	9.4	95 20	-161.8	-171.2		3691.1		+980	+1430	1,338,466	510,593		
684	2071	2063.1	41 40	-	9.1	95 -	-180.5	-189.6		3672.7		+1181	+1671	1,338,667	510,854		
685	2401	2392.5	-	-	6.3	94 50	-202.3	-208.6		3653.7		+1370	+1961	1,338,856	511,124		
686	2728	2719.0	42 13 06	-	6.9	94 40	-221.9	-228.8	-228.7	3631.9	TP	+1535	+2244	1,339,020	511,406	ACCESS Sta. 1st Sta. with corrected ELEVATION.	
686	2728			-	6.6	265 20	-221.9	-228.5			TP	-1	-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				
3-19-86		B. Cotcamp		B. SALONAR		6834		J.M. B.S		5		50				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
ARIZONA		Wikieup N.W. - 7 1/2'		AZ		MOHAVE								J. McCLELLAN		
STATION NO.	SLOPE DISTANCE	PLOTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH - LAT.	EAST + WEST - DEP.	COORDINATES		REMARKS
														Y	X	
										3631.9						
	4198	4197.4	262 32' 48"	+134	+14.0	89 -	-73.3	-59.3			BS	-435	+4175			
	4198				+13.7	271 -	-73.3	-59.6	-59.53	3592.4	BS	-1				
687	3865		263 35'	-	6.7	89 20	+45.0	+38.3		3610.7		+492	-3834	1,339,076	511,746	
688	3543		264 25'	-	6.8	89 30	+30.9	+24.1		3596.5		+482	-3510	1,339,066	512,070	
IF	3473		264 38 09'	-	10.0	89 30	+30.3	+20.3		3592.7		+485	-3439	1,339,069	512,141	
689	3211		264 35'	+13.4	10.1	89 40	+18.7	+8.6		3581.0		+446	-3180	1,339,030	512,400	
690	2880		264 20'	-	7.1	-		-7.1		3565.3		+388	-2854	1,338,972	512,726	
691	2549		263 55'	-	7.2	84	-12.7	-19.9		3552.5		+325	-2528	1,338,909	513,052	
692	2219		263 20'	-	12.1	84	-11.1	-23.2		3549.2		+260	-2204	1,338,844	513,376	
693	1890		262 20'	+13.4	9.3	90 40	-22.0	-31.3		3541.1		+189	-1881	1,338,773	513,699	
694	1563		261 30'	-	10.3	91 -	-27.3	-37.6		3534.8		+134	-1557	1,338,718	514,023	
695	1233		261 05'	-	7.1	91 30	-32.3	-39.4		3533.0		+96	-1229	1,338,680	514,351	
696	925	922.8	265 40'	-	8.1	94 -	-64.5	-72.6		3499.8		+145	-911	1,338,229	514,669	
697	622	618.0	275 30'	-	9.8	96 30	-70.4	-80.2		3492.2		+200	-585	1,338,284	514,995	
698	337	323.8	295 12'	-	1.3	106 04	-93.3	-94.6		3477.8		+202	-253	1,338,786	515,327	
π	0				5.1	-		-5.1		3567.3	π	0	0	1,338,584	515,580	
699	246	227.0	6 23'	+13.4	4.5	112 40	-94.8	-99.3		3473.1		+214	+77	1,338,298	515,657	
700	380	362.1	69 40'	-	6.3	107 40	-115.3	-121.6		3450.8		+44	+359	1,338,628	515,939	
IF	669	656.7	81 35 50'	-	6.3	101 -	-127.7	-134.0		3438.4		-57	+654	1,338,529	516,234	IF - 1,338,520 x - 516,210 K y-intersect
701	677	664.6	82 25'	-	4.7	101 -	-129.2	-133.9		3438.5		-67	+661	1,338,512	516,241	

SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3-19-86		B. Cotcamp		B. SALDIVAR		6834		J.M. B.S.		5		51			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		WIKIEUP N.W. - 7 1/2'		AZ.		MOHAVE								J. Mc CLELLAN	
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
									3572.4						
702	1002	989.7	83 -	+13.4	2.9	99 -	-156.7	-159.6		3412.8		-110	+984	1,338.474	516.564
703	1317	1305.7	78 55	-	12.9	97 30	-171.9	-184.8		3387.6		-53	+1305	1,338.531	516.885
704	1616	1605.6	74 -	-	7.4	96 30	-182.9	-190.3		3382.1		+73	+1604	1,338.657	517.184
705	1942	1931.7	73 -	-	11.7	95 54	-199.6	-211.3		3361.1		+121	+1928	1,338.705	517.508
706	2261	2250.2	70 33	-	9.0	95 36	-220.6	-229.6		3342.8		+237	+2238	1,338.821	517.818
707	2580	2569.8	68 40	-	11.0	95 06	-229.3	-240.3		3332.1		+355	+2545	1,338.939	518.125
708	2901	2891.3	67 07	-	12.0	94 42	-237.7	-249.7		3322.7		+476	+2852	1,339.060	518.432
709	3220	3212.2	65 37 15	-	10.5	94 -	-224.6	-235.1	235.03	3337.4	TP	+612	+3153	1,339.195	518.732
709	3220				10.2	266 -	-224.6	-234.8			TP	-1	-1		
	1648		223 25 26	+13.4	8.5	BH	+8.2	+16.7			BS	+902	+1379		
	1648				8.4	BH 270	+8.2	+16.6	3354.0		BS	-1	-1		
710	1318		223 05	-	13.0	90 38	-14.6	-27.6		3326.4		-728	-1099	1,339.368	519.011
711	990		222 20	-	9.9	90 38	-10.9	-20.8		3333.2		-557	-818	1,339.539	519.292
#	842		223 22	-	8.3	91 38	-24.0	-32.3		3321.7	#	-461	-704	1,339.635	519.406 # fence line
712	660		222 20	-	5.6	91 38	-18.8	-24.4		3329.6		-372	-545	1,339.724	519.565
713	330		224 30	+13.4	13.0	93 -	-17.3	-30.3		3323.7		-175	-280	1,339.921	519.830
714	26		306 50	-	12.8	93 -	-1.4	-14.2		3339.8		+20	-17	1,340.116	520.093
K	0			-	5.1			-5.1		3348.9	K	0	0	1,340.096	520.110
715	335	3344	25 30	-	13.1	93 30	-20.5	-33.6		3320.4		+260	+210	1,340.356	520.320
716	662		-	-	8.0	90 30	-5.8	-13.8		3340.2		+515	+416	1,340.611	520.526

SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

DATE	3-19-86	INSTRUMENT MAN	B. Cotcamp	ROD MAN	B. SALDIVAR	PARTY NUMBER	6834	NOTES CHECKED BY	J.M. [Signature]	LINE NO.	5	PAGE	52
AREA	ARIZONA	TOPO MAP	Wikieup N.W. 7 1/2'	STATE	AZ.	COUNTY	MOHAVE	TWP		RANGE		PPM	
PARTY MANAGER													J. McCLELLAN

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		
716									3354.0								
TP	915		25 27 38	+13.4	13.6	90 30'	-8.0	-21.6		3332.4	TP	+712	+574	1,340,807	520,683		
TP	915				13.5	269 30'	-8.0	-21.5			TP	-1	-1				
	3171	316.0	225 14 21	-	+9.4	86 46'	-178.9	-169.5			BS	+1648	+2703				
	3171				+9.1	273 14'	-178.9	-169.8	-169.7	3316.7	BS	-1	-1				
717	3690	3685.3	224 50	-	8.3	86 50'	+170.7	+162.4		3325.1		-1624	-2623	1,340,830	520,762		
718	2788	2784.5	227 28	-	8.8	87 08'	+139.4	+130.6		3293.3		-1356	-2432	1,341,098	520,953		
719	2460	2456.9	227 05	-	8.2	87 08'	+123.0	+114.8		3277.5		-1210	-2138	1,341,244	521,247		
720	2142	2139.4	225 10	+13.4	11.4	87 10'	+105.9	+94.5		3257.2		-1116	-1825	1,341,338	521,560		
721	1817	1814.5	223 40	-	25.0	86 58'	+96.2	+71.2		3233.9		-986	-1523	1,341,468	521,862		
722	1491	1489.6	224 05	-	6.4	87 30'	+65.0	+58.6		3221.3		-901	-1256	1,341,553	522,129		
723	1160	1158.9	224 45	-	6.6	87 30'	+50.6	+44.0		3206.7		-612	-984	1,341,842	522,401		
724	830	829.2	224 30	-	12.3	87 30'	+36.2	+23.9		3186.6		-441	-702	1,342,013	522,683		
725	503	502.1	218 25	-	11.0	86 30'	+30.7	+19.7		3182.4		-310	-395	1,342,144	522,990		
726	200	199.4	201 10	-	6.4	85 30'	+15.7	+9.3		3172.0		-164	-113	1,342,270	523,272		
K	0				5.1	-		-5.1		3157.6	K	0	0	1,342,454	523,385		
727	139		40 47 10	+13.4	10.4	92 30'	-6.1	-16.5		3146.2	K	+81	+113	1,342,535	523,498	5-1,342,500 x-523,480 y-2179	
728	468	467.4	38 20	-	12.7	93 -	-24.5	-37.2		3125.5		+289	+367	1,342,743	523,752		
729	798	796.1	-	-	6.8	94 -	-55.7	-62.5		3100.2		+493	+625	1,342,947	524,010		
730	1128	1125.3	-	-	6.3	94 -	-78.7	-85.0		3077.7		+697	+884	1,343,151	524,269		
731	1458	1456.0	-	-	13.6	93 -	-76.3	-89.9		3072.8		+902	+1143	1,343,356	524,528		

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
3-19-86		B. Cotcamp		B. SALDIVAR		6834		J.M. HS		5		53				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
ARIZONA		Wikeup N.W.-7 1/2		AZ.		MOHAVE								J. Mc CLELLAN		
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	
									3162.7							
732	1788	1786.3	38° 20'	+13.4	9.7	92° 30'	-78.0	-87.7		3075.0		+1106	+1402	1,343.560	524.787	
733	2112	2110.0	39° 34' 44"	-	8.1	92° 30'	-92.1	-100.2		3062.5	TP	+1270	+1685	1,343.723	525.069	
733	2112				7.9	267° 30'	-92.1	-100.0			TP	-1	-1			
	1712	1705.5	247° 54' 36"	-	+6.3	85° -	-149.2	-142.9			BS	+258	+1686			
	1712				+6.2	275° -	-149.2	-143.0	2919.5		BS	-1	-1			
734	1387	1382.4	249° 56'	-	8.2	85° 20'	+112.8	+104.6		3024.1		-160	-1373	1,343.820	525.381	
735	1103	1099.3	257° 42'	+13.4	12.0	85° 20'	+89.7	+77.7		2997.2		+21	-1099	1,344.001	525.655	
736	796	792.0	265° 35'	-	25.0	84° 17'	+79.3	+54.3		2973.8		+124	-782	1,344.104	525.972	
737	479	477.0	271° 10'	-	9.9	84° 44'	+44.0	+34.1		2953.6		+120	-462	1,344.100	526.292	
738	160	159.3	282° 56'	-	7.0	84° 44'	+14.7	+7.7		2927.2		+71	-143	1,344.051	526.611	
X	0				5.1	-		-5.1		2914.4	X	0	0	1,313.980	526.754	
739	208	207.4	51° 20'	-	7.9	94° 30'	-16.3	-24.2		2895.3		+89	+188	1,344.069	526.942	
740	525	523.5	49° 56'	+13.4	19.5	94° 20'	-39.7	-59.2		2860.3		+236	+467	1,344.216	527.221	
741	843	840.4	54° 40'	-	6.3	94° 30'	-66.1	-72.4		2847.1		+314	+780	1,344.294	527.534	
742	1147	1144.4	62° 20'	-	6.0	93° 50'	-76.7	-82.7		2836.8		+282	+1109	1,344.262	527.863	
743	1459	1456.5	66° 28'	-	11.3	93° 20'	-84.8	-96.1		2823.4		+256	+1434	1,344.236	528.188	
744	1791	1787.7	66° 17' 57"	-	13.0	93° 30'	-109.3	-122.3	122.23	2797.3	TP	+320	+1759	1,344.299	528.512	
744	1791				12.7	266° 30'	-109.3	-122.0			TP	-1	-1			
	4036	4023.9	250° 07' 27"	+13.4	11.4	85° 34'	-312.0	-300.6	300.93	2496.4	BS	+454	+3998			
	4036				+10.9	274° 26'	-312.0	-301.1			BS	-1	-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			
3-19-86		B. Cotamp		B. SALDIVAR		6834		F.M. D.S.		5		54			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		WIKIUP N. 7 1/2'		AZ		MOHAVE								J. McCLELLAN	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS A TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									2496.4						
745	3710	3699.4	249° 20'	+13.4	8.7	85° 40'	+280.3	+271.6		2768.0		-468	-3670	1,344.284	528.839
746	3380	3371.1	248° 55'	-	8.3	85° 50'	+245.6	+237.3		2733.7		-451	-3341	1,344.301	529.168
747	3052	3043.9	-	-	14.2	85° 50'	+221.8	+207.6		2704.0		-407	-3017	1,344.345	529.492
748	2722	2715.4	248° 50'	-	10.7	86° -	+189.9	+179.2		2675.6		-367	-2690	1,344.385	529.819
749	2393	2387.2	249° 05'	-	13.3	86° -	+166.9	+153.6		2650.0		-312	-2367	1,344.440	530.142
750	2063	2059.5	248° 20'	-	8.9	86° 40'	+120.0	+114.1		2610.5		-296	-2038	1,344.456	530.471
751	1733	1730.4	248° 10'	+13.4	11.4	86° 50'	+95.7	+84.3		2580.7		-254	-1712	1,344.498	530.797
752	1405	1402.1	246° 10'	-	7.8	86° 20'	+89.9	+82.1		2578.5		-254	-1379	1,344.498	531.130
753	1104	1101.7	240° 25'	-	8.2	86° 20'	+70.6	+62.4		2558.8		-307	-1058	1,344.445	531.451
754	788	786.4	235° 52'	-	9.9	86° 20'	+50.4	+40.5		2536.9		-278	-735	1,344.474	531.774
755	458	457.1	234° 35'	-	10.1	86° 20'	+29.3	+19.2		2515.6		-171	-424	1,344.581	532.085
756	130	129.7	223° 50'	-	9.3	86° 20'	+8.3	-1.0		2495.4		-70	-109	1,344.682	532.460
Σ	0				5.1	-		-5.1		2491.3	Σ	0	0	1,344.752	532.509
757	198		61° 40'	+13.4	9.9	94° -	-13.8	-23.7		2472.7		+51	+191	1,344.803	532.700
758	529	527.7	60° -	-	13.4	94° -	-36.9	-50.3		2446.1		+151	+506	1,344.903	533.015
759	858	856.4	63° 50'	-	9.9	93° 30'	-52.4	-62.3		2434.1		+189	+835	1,344.941	533.344
760	1188	1185.8	64° 10'	-	6.0	93° 30'	-72.5	-78.5		2417.9		+255	+1158	1,345.007	533.667
761	1516	1513.7	63° 40'	-	10.3	93° 10'	-83.7	-94.0		2402.4		+339	+1475	1,345.091	533.984
762	1844	1840.9	62° 20'	-	11.0	93° 20'	-107.2	-118.2		2378.2		+454	+1784	1,345.206	534.293
763	2174	2170.3	62° 25'	-	15.9	93° 20'	-126.4	-142.3		2354.1		+532	+2104	1,345.284	534.613

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3-19-86		B. Cotcamp		B. SALDIVAR		6834		J.M. D. S.		5		55			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		Wikieup N.W.-7 1/2'		AZ.		MOHAVE								J. Mc CLELLAN	
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
									2496.4						
TP	2367	2363.4	62 28 10	+13.4	9.4	93 16	-136.8	-140.2		2356.2	TP	+577	+2292	1,345.328	534.800
TP	2367				9.1	266 50	-130.8	-139.9			TP	-	-		
	2073	2066.6	246 56 13	-	10.8	85 36	-162.6	-151.8			BS	+347	+2037		
	2073				10.5	274 36	-162.6	-152.1	452.0	2204.2	BS	-	-		
764	1946	1941.3	243 50	-	6.4	86 -	+135.7	+129.3		2333.5		-429	-1893	1,345.245	534.943
765	1624	1620.0	241 30	-	14.3	86 -	+113.3	+99.0		2303.2		-422	-1564	1,345.252	535.272
766	1299	1296.8	240 40	-	7.9	86 40	+75.5	+67.6		2271.8		-356	-1247	1,345.318	535.589
767	969	967.4	241 -	+13.4	10.6	86 40	+56.3	+45.7		2249.9		-260	-932	1,345.414	535.904
768	640	639.1	239 10	-	10.9	87 -	+33.5	+22.6		2226.8		-191	-610	1,345.483	536.226
769	330		227 -	-	6.9	87 -	+17.3	+10.4		2214.6		-163	-287	1,345.511	536.549
770	0				5.1	-		-5.1		2199.1	X	0	0	1,345.674	536.836
771	330		44 -	-	7.1	92 20	-13.4	-20.5		2183.7		+178	+278	1,345.852	537.114
772	660		- -	-	8.1	92 20	-26.9	-35.0		2169.2		+356	+556	1,346.030	537.392
773	990	989.2	- -	-	9.9	92 20	-40.3	-50.2		2154.0		+533	+833	1,346.206	537.669
774	1320	1318.9	44 -	+13.4	11.1	92 20	-53.7	-64.8		2139.4		+711	+1111	1,346.385	537.947
775	1650	1648.6	- -	-	11.0	92 20	-67.2	-78.2		2126.0		+888	+1389	1,346.562	538.225
776	1980	1978.4	- -	-	9.0	92 20	-80.6	-89.6		2114.6		+1066	+1667	1,346.740	538.503
777	2310	2308.1	- -	-	8.5	92 20	-94.0	-102.5		2101.7		+1244	+1944	1,346.918	538.780
778	2640	2637.8	- -	-	6.3	92 20	-107.5	-113.8		2090.4		+1421	+2222	1,347.095	539.058
779	2970	2967.5	44 05		6.6	92 20	-120.9	-127.5		2076.7		+1595	+2502	1,347.269	539.338

wikieup N.W.-7 1/2'
wikieup -7 1/2'

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
3-19-86		B. Cotcamp		B. SALDIVAR		6834		J.M. D.S.		5	56					
AREA		TOPO MAP	STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
ARIZONA		Wikieup 114 -74'	AZ.	MOHAVE					J. Mc CLELLAN							
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH - LAT.	EAST + WEST - DEP.	COORDINATES Y X		REMARKS
									2204.2							
780	3289	3286.7	42 06 58	+13.4	14.2	92 10	-124.3	-138.5	-138.3 1/2	2065.9	TP	+1861	+2709	1,347.533	539.545	ACCESS STA.
780	3289				13.7	267 50	-124.3	-138.0			TP	-2				
	609		207 07 52	-	+6.7	88 -	-21.3	-14.6	2051.3		BS	+463	+396			
	609				+6.7	272 -	-21.3	-14.6			BS	-2				
781	278		205 45	-	5.5	88 -	+9.7	+4.2		2055.5		-216	-176	1,347.778	539.765	
κ	0				5.1	-		-5.1		2046.2	κ	0	0	1,347.994	539.941	
782	65		70 -	-	6.4	91 -	-1.1	-7.5		2043.8		+7	+65	1,348.001	540.006	
783	395		73 10	-	7.7	91 30	-10.3	-18.0		2033.3		+24	+394	1,348.018	540.335	
Δ	280 313		73 53 03	-	5.0	91 30	-8.2	-13.2		2038.1	+	+15	+313	1,348.009	540.254	y-1,348,015 x-540,225 section CORNER EL. 2037.0
784	725		75 10	-	10.4	91 30	-19.0	-29.4		2021.9		+18	+725	1,348.012	540.666	
785	1655		75 35	-	12.6	91 30	-27.6	-40.2		2011.1		+19	+1055	1,348.013	540.996	
786	1385		- -	+13.4	12.1	91 30	-36.3	-48.4		2002.9		+25	+1385	1,348.019	541.326	
787	1715	1714.4	76 05	-	12.9	91 30	-44.9	-57.8		1993.5		+15	+1714	1,348.009	541.655	
TP	1819	1818.2	75 35 05	-	8.9	91 40	-52.9	-61.8	61.7 1/2	1989.6	TP	+32	+1818	1,348.024	541.759	y-1,348,030 x-541,770 TP Highway 13
TP	1819				8.7	268 20	-52.9	-61.6			TP	-2				Note - 1440 offset
	1439		325 46 18	+13.4	13.7	89 -	-25.1	-11.4			BS	-1345	+512			South between
	1439				13.6	271 -	-25.1	-11.5	1978.1		BS	-2				787-788
κ	0				5.1	-		-5.1		1973.0	κ	0	0	1,346.677	542.271	
788	164		76 32	-	8.5	91 10	-3.3	-11.8		1966.3		±0	+164	1,346.677	542.435	
789	494			-	9.1	91 10	-10.1	-19.2		1958.9		+1	+494	1,346.678	542.765	

SURVEY NOTES-HIGH RESOLUTION DATA
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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE							
3- - 86		B. Cotcamp		B. SALDIVAR		6834		F.M.		5		57							
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PARTY MANAGER							
ARIZONA		Wikieup - 7 1/2'		AZ.		MOHAVE						J. Mc Lellan							
STATION NO.	SLOPE DISTANCE	PLOTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS	
												LAT.	DEP.	Y	X				
									1978.1										
790	824		76° 32'	+13.4	10.8	91° 10'	-16.8	-27.6		1950.5		+1	+824	1,346.678	543.095				
791	1154		- -	-	12.2	91° 10'	-23.5	-35.7		1942.4		+1	+1154	1,346.678	543.425				
792	1484		- -	-	9.8	91° 10'	-30.2	-40.0		1938.1		+2	+1484	1,346.679	543.755				
793	1814		- -	-	5.4	91° 10'	-36.9	-42.3		1935.8		+2	+1814	1,346.679	544.085				
TP	1947		76° 18' 17"	-	1.6	91° 10'	-39.6	-41.2	41.3	1937.0	TP	+10	+1947	1,346.686	544.218				
TP	1947				1.4	268° 50'	-39.6	-41.0			TP	-1							NOTE .1025' offset
	1025		345° 37' 27"	+13.4	4.3	TH	-5.1	-0.8			BS	-1025	+17						sunth 793-794
	1025				4.2	TH 270°	-5.1	-0.9	1936.1		BS	-1							
X	0				5.1	-	-	-5.1		1931.0	X	0	0	1,345.660	544.235				544.235 EL. 1932.0 HORIZ J - 42' CORR. X - 16'
794	226		71° 50'	-	5.7	TH	+1.1	-4.6		1931.5		+19	+225	1,345.679	544.460				
795	556		- -	-	4.8	-	-	-4.8		1931.3		+46	+554	1,345.706	544.789				
796	886		71° 30'	-	8.9	-	-	-8.9		1927.2		+79	+882	1,345.739	545.117				
797	1217		71° 03' 46"	-	11.2	BM	-6.1	-17.3		1918.8	TP	+117	+1211	1,345.777	545.446				ACROSS STA.
797	1217				13.7	90° 10'	-3.5	-17.2			TP								
	741		256° 47' 22"	+13.4	3.9	TH	-3.7	+0.2			BS	-2	+741						
	741				3.8	TH 270°	-3.7	+0.1	1918.9		BS								
798	411		259° 10'	-	7.7	-	-	-7.7		1911.2		+18	-411	1,345.793	545.776				River
799	81		- -	-	8.3	-	-	-8.3		1910.6		+4	-81	1,345.779	546.106				
X	0				5.1	-	-	-5.1		1913.8	X	0	0	1,345.775	546.187				
800	250		116° 05'	-	5.9	-	-	-5.9		1913.0		-159	+193	1,345.616	546.380				

SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3-20-86		B. Camp		B. SALDIVAR		6834		J.M. B.S.		5		59			
AREA		TOWNSHIP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		Wikieup - 7 1/2'		AZ.		MOHAVE								J. Mc CLELLAN	
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
									1908.3						
812	330		302 50	+13.4	6.7	89 20	+3.8	-2.9		1905.4		+238	-228	1,342,845	548,735
813	0				5.1	-		-5.1		1903.2	TP	0	0	1,342,607	548,963
814	330		117 15	-	11.4	90 20	-1.9	-13.3		1895.0		-215	+250	1,342,392	549,213
815	660		119 30	-	10.9	90 20	-3.8	-14.7		1893.6		-449	+483	1,342,158	549,446
816	990		120 05	-	5.0	90 20	-5.8	-10.8		1897.5		-681	+718	1,341,926	549,681
817	1255		117 28 10	-	8.6	90 -		-8.6		1899.7		-821	+949	1,341,786	549,912
817	1250		111 17	-	13.9	89 24	+13.1	-0.8		1907.5		-711	+1028	1,341,896	549,991
818	1474		101 10 10	-	13.5	89 12	+20.6	+7.1		1915.4	TP	-613	+1340	1,341,994	550,363
818	1474				13.4	270 48	+20.6	+7.2			TP				
	1225		210 40 20	+13.9	9.5	91 50	+39.2	+48.7			BS	+872	+859		
	1225				9.4	268 10	+39.2	+48.6	1964.0		BS				
819	930		203 20	-	13.4	92 10	-35.2	-48.6		1915.4		-740	-563	1,342,126	550,599
820	657	656.3	211 45	-	12.1	92 34	-29.4	-41.5		1922.5		-459	-469	1,342,407	550,613
821	328	327.4	217 40	-	11.0	93 20	-19.1	-30.1		1933.9		-204	-256	1,342,662	550,906
822	0				5.1	-		-5.1		1958.9	TP	0	0	1,342,866	551,162
823	329		42 30	+13.9	7.8	88 -	+11.5	+3.7		1967.7		+182	+274	1,343,048	551,436
824	651		40 12	-	3.5	88 -	+22.7	+19.2		1983.2		+382	+527	1,343,248	551,689
825	907	906.2	54 50	-	8.7	87 40	+36.9	+28.2		1992.2		+329	+844	1,343,195	552,006
826	1207	1205.3	52 05	-	8.5	87 -	+63.2	+54.7		2018.7		+491	+1101	1,343,357	552,263
827	1473	1471.0	53 45	-	18.3	87 -	+77.1	+58.8		2022.8		+559	+1361	1,343,425	552,523

SURVEY NOTES-HIGH RESOLUTION DATA
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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3-20-86		B. Cotcamp		B. SALDIVAR		6834		J.M. B.S.		5		58			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		Wikieup - 7 1/2		AZ.		MOHAVE								J. McClellan	
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
									1918.9						
801	580		117° 50'	+13.4	11.0	-		-11.0		1907.9		-382	+436	1,345.393	546.623
802	907		115° 57' 28"	-	14.2	-		-14.2		1904.7	TP	-575	+701	1,345.200	546.888
802	907				14.1	270°		-14.1			TP				
	1105		284° 12' 58"	-	+6.5	91° 30'	+28.9	+35.4			BS	-510	+979		
	1105				+6.4	268° 30'	+28.9	+35.3	1940.0		BS				
803	775		283° 20'	-	9.3	92°	-27.0	-36.3		1903.7		+349	-692	1,345.037	547.175
804	445		-	-	14.2	92°	-15.5	-29.7		1910.3		+200	-397	1,344.888	547.470
805	115		-	-	10.9	95°	-10.0	-20.9		1919.1	±	+52	-102	1,344.740	547.765
κ	0				5.1	-		-5.1		1934.9	κ	0	0	1,344.688	547.867
806	232		147°	+13.4	8.7	93°	-12.1	-20.8		1919.2		-219	+78	1,344.469	547.945
807	554		134° 20'	-	6.9	91° 30'	-14.5	-21.4		1918.6		-468	+296	1,344.220	548.163
#	721		133° 22' 57"	-	9.0	91°	-12.6	-21.6		1918.4	#	-603	+395	1,344.085	548.262
808	867		139° 20'	-	11.1	90° 50'	-12.6	-23.7		1916.3		-771	+397	1,343.917	548.264
809	1113		151° 20'	-	11.1	90° 50'	-16.2	-27.3		1912.7		-1074	+293	1,343.614	548.160
TP	1243		150° 34' 50"	-	9.0	90° 10'	-3.6	-12.6		1927.4	TP	-1195	+343	1,343.493	548.210
TP	1243				8.9	269° 50'	-3.6	-12.5			TP				
	1163		306° 14' 58"	+13.4	+1.3	89°	-20.3	-19.0			BS	-886	+753	1	
	1163				+1.2	271°	-20.3	-19.1	1908.3		BS				
810	988		305° 35'	-	12.8	89° 10'	+14.4	+1.6		1909.9		+745	-648	1,343.352	548.315
811	660		305°	-	9.8	89° 20'	+7.7	-2.1		1906.2		+494	-438	1,343.101	548.525

± 1,344,730 x = 547,985
± 7 - enter. EL. 1917.0

± 1,344,700 x = 548,295
fence line

SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
3-20-86		B. Cotcamp		B. SALDIVAR		6834		J.M. B.A.		5		60			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
ARIZONA		WIKIUP-7k		AZ.		MOHAVE								J. Mc CLELLAN	
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
827									1964.0						
TP	1605	1602.3	50 08 30	+13.9	8.0	86 40	+93.3	+85.3		2049.3	TP	+701	+1441	1,343,567	552,603
TP	1605				7.9	273 20	+93.3	+85.4			TP				
	967	966.4	219 26 02	-	+14.8	92 -	+33.7	+48.5			BS	+577	+775		
	967				+14.7	268 -	+33.7	+48.4	2097.7		BS				
828	809	808.1	219 10	-	13.2	92 40	-37.6	-50.8		2046.9		-486	-646	1,343,658	552,732
829	503	502.5	230 35	-	9.5	92 40	-23.4	-32.9		2064.8		-216	-453	1,343,928	552,925
830	177		235 30	-	7.5	92 40	-8.2	-15.7		2082.0		-62	-166	1,344,082	553,212
κ	0				5.1	-		-5.1		2092.6	κ	0	0	1,344,144	553,378
831	154		51 32	+13.9	5.4	88 10	+4.9	-0.5		2097.2		+64	+140	1,344,208	553,518
832	484		52 40	-	7.5	88 10	+15.5	+8.0		2105.7		+192	+444	1,344,336	553,822
833	810		48 30	-	13.0	88 02	+27.8	+14.8		2112.5		+375	+718	1,344,519	554,096
TP	1103	1102.3	46 05 40	-	13.6	88 -	+38.4	+24.9		2122.6	TP	+551	+955	1,344,695	554,333
TP	1103				13.5	272 -	+38.5	+25.0			TP				
	706		203 26 33	+13.9	11.3	91 -	+12.3	+23.6	2146.2		BS	+561	+428		
	706				11.3	269 -	+12.3	+23.6			BS				
834	672		204 10	-	11.0	91 -	-11.7	-22.7		2123.5		-529	-414	1,344,727	554,347
835	342		202 05	-	8.8	91 -	-6.0	-14.8		2131.4		-277	-201	1,344,979	554,560
836	41		137 20	-	6.0	97 -	-5.0	-5.0		2141.2		-36	+20	1,345,220	554,781
κ	0				5.1	-		-5.1		2141.1	κ	0	0	1,345,256	554,761
837	331		55 10	-	6.9	88 20	+9.6	+2.7		2148.9		+118	+309	1,345,374	555,070

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	3-20-86	INSTRUMENT MAN	B. Cotcamp	ROD MAN	B. SALDIVAR	PARTY NUMBER	6834	NOTES CHECKED BY	F.M. B/D	LINE NO.	5	PAGE	61
AREA	ARIZONA	TORO MAP	Wikieup-7 1/2'	STATE	AZ.	COUNTY	MOHAVE	TWP		PARTY MANAGER	J. McCLELLAN		

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		
									2146.2								
#	657		54° 04' 06"	+13.9	10.9	88° 20'	+19.1	+8.2		2154.4	#	+246	+609	1,345,502	555,370	# Fence line	
838	654		55° 30'	-	10.9	88° 20'	+19.0	+8.1		2154.3		+230	+612	1,345,486	555,373		
TP	813		56° 14' 34"	-	14.9	88° 32'	+20.8	+5.9		2152.1	TP	+276	+764	1,345,332	555,525		
TP	813				14.8	271° 28'	+20.8	+6.0			TP						
	572	569.8	229° 25' 50"	+13.9	13.2	85° -	-49.9	-36.7			BS	+256	+509				
	572				13.1	275° -	-49.9	-36.8	2115.3		BS						
839	398	396.5	229° 10'	-	11.3	85° -	+34.7	+23.4		2138.7		-180	-353	1,345,608	555,681		
840	95		254° 45'	-	5.3	83° -	+11.6	+6.3		2121.6		-2	-95	1,345,786	555,939		
X	0				5.1	-		-5.1		2110.2	X	0	0	1,345,788	556,034		
841	303		349° 25'	-	11.8	87° 30'	+13.2	+1.4		2116.7		+302	+18	1,346,090	556,052		
842	551		15° 35'	-	8.6	-		-8.6		2106.7	WASH	+480	+271	1,346,268	556,305		
843	853	852.3	22° 33'	-	6.9	87° 40'	+34.7	+27.8		2143.1		+686	+506	1,346,474	556,540		
844	1167	1164.8	25° 34' 10"	-	7.1	86° 30'	+21.2	+64.1		2179.4	TP	+899	+740	1,346,687	556,774		
844	1167				7.0	273° 30'	+21.2	+64.2			TP						
	900	899.5	181° 29' 35"	+13.9	11.9	92° -	+31.4	+43.3			BS	+867	+239				
	900				11.8	268° -	+31.4	+43.2	2222.6		BS						
845	575		183° 05'	-	12.9	92° -	-20.1	-33.0		2189.6		-550	-168	1,347,004	556,845		
846	259		197° -	-	13.3	92° -	-9.0	-22.3		2260.3		-222	-133	1,347,332	556,880		
X	0				5.1	-		-5.1		2217.5	X	0	0	1,347,554	557,013		
847	108		323° 40'	-	7.0	-		-7.0		2215.6		+100	-41	1,347,654	556,972		

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
3-20-86		B. Cotcamp		B. SALDIVAR		6834		J.M. B/A.		5	62						
AREA		TORO MAP	STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER								
ARIZONA		Wikieup - 7 1/2'	AZ.	MOHAVE					J. Mc CLELLAN								
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 +	EAST +	COORDINATES		REMARKS	
												SOUTH -	WEST -	Y	X		
												LAT.	DEP.				
									2222.6								
848	382		15° 10'	+13.9	9.3	89° 20'	+4.4	-4.9		2217.7		+334	+186	1,347,888	557,199		
849	698		24° -	-	11.8	89° 20'	+8.1	-3.7		2218.9		+551	+429	1,348,105	557,442		
850	1016		27° 16'	-	10.7	89° -	+17.7	+7.0		2229.6		+765	+669	1,348,319	557,682	E.O.L. Line #5	
TP	900				11.9	92° -	-31.4	-43.3		2179.3	TP						
TP	900				11.8	268° -	-31.4	-43.2			TP						
	1167				+7.1	86° 30'	-71.2	-64.1			BS						
	1167				+7.0	273° 30'	-71.2	-64.2	2115.1		BS						
K	0				5.1	-		-5.1		2110.0	K						
TP	572				13.2	85° -	+49.9	+36.7		2151.8	TP						
TP	572				13.1	275° -	+49.9	+36.8			TP						
	813				+14.9	88° 32'	-20.8	-5.9			BS						
	813				+14.8	271° 28'	-20.8	-6.0	2145.8		BS						
K	0				5.1	-		-5.1		2140.7	K	0					
TP	706				11.3	91° -	-12.3	-23.6		2122.2	TP						
TP	706				11.3	269° -	-12.3	-23.6			TP						
	1103				+13.6	88° -	-38.5	-24.9			BS						
	1103				+13.5	272° -	-38.5	-25.0	2077.2		BS						
K	0				5.1	-		-5.1		2092.1	K						
TP	967				14.8	92° -	-33.7	-48.5		2048.7	TP						
TP	967				14.7	268° -	-33.7	-48.4			TP						

SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

DATE 3-20-86	INSTRUMENT MAN B. Stump	ROD MAN B. SALDIVAR	PARTY NUMBER 6834	NOTES CHECKED BY J.M. B/P	LINE NO. 5	PAGE 63
AREA ARIZONA	TOPO MAP Wikieup N.W - 7 1/2'	STATE AZ	COUNTY MOHAVE	TWP	RANGE	PPM
				PARTY MANAGER J. Mc CLELLAN		

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.	
										2048.7				
	1605				+ 8.0	86° 46'	-93.3	-85.3			TP			
	1605				+ 7.9	273° 20'	-93.3	-85.4	1963.3		TP			
X	0				5.1	-		-5.1			X	0		
TP	1225				9.5	91° 50'	-39.2	-48.7		1958.2	TP			
TP	1225				9.4	268° 10'	-39.2	-48.6		1914.6	TP			
	1474				+ 13.5	89° 12'	-20.6	-7.1			BS			
	1474				+ 13.4	270° 48'	-20.6	-7.2	1907.4		BS			
X	0				5.1	-		-5.1		1902.3	X			
TP	1163				1.3	89° -	+20.3	+19.0		1926.4	TP			
TP	1163				1.2	271° -	+20.3	+19.1			TP			
	1243				+ 9.0	96° 10'	+3.6	+12.6	1939.0		BS			
	1243				+ 8.9	269° 50'	+3.6	+12.5			BS			
X	0				5.1	-		-5.1		1933.9	X			
X	115				10.9	95° -	-10.0	-20.9		1918.1	X			EL. 1917.0