

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

PAGE 1 of 69

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
2-3-82		B. Cotcamp		M. Knapp		6834		MPK Jm		3	1					
AREA		TOPO MAP	STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
CALIFORNIA		LOVE BUTTE	CALIF.	SAN BERNARDINO					L. Davis							
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS
												LAT.	DEP.	Y	X	
K1										2015.0				SCALED: 781,730	2,145,700	
	1642		342° 20' 09" - 180	+15.2°	+9.6	91° 20'	+24.2	+33.8	2048.8		BS	-1041	+45			
	1042				+6.5	91° 30'	+27.3	+33.8			BS					
1	985		341' 49"	+15.2°	12.2	91° 20'	-22.9	-35.1		2013.7		+984	-51	781,673	2,145,694	
2	660		344° 39'	"	8.0	91° 30'	-17.3	-25.3		2023.5		+660	-2	781,349	2,145,743	
3	330		349° 14'	"	5.3	91° 30'	-8.6	-13.9		2034.9		+329	+26	781,018	2,145,771	
4	0				5.4	-		-5.4		2043.4	X	0	0	780,689	2,145,745	
5	330		175° 12'	+15.2°	6.8	88° 20'	+9.6	+2.8		2051.6		-325	-60	780,364	2,145,685	
6	660		" "	"	8.7	88° 20'	+19.2	+10.5		2059.3		-649	-119	780,040	2,145,626	
7	990		176° 56'	"	8.0	88° 20'	+28.8	+20.8		2069.6		-968	-208	779,721	2,145,537	
8	1320		177° 01' 35"	"	7.1	88° 20'	+38.4	+31.3		2080.1	TP	-1290	-279	779,399	2,145,466	
8	1320				11.0	88° 10'	+42.2	+31.2			TP					
	5281		357° 30' 22" - 180	+15.2°	+11.9	91° 44'	+159.6	+171.5	2051.6		BS	-5149	-1161			E.O.M.
	5281				+14.8	91° 42'	+156.6	+171.4			BS		-1			
9	4950		357° 30'	+15.2°	12.1	91° 44'	-149.6	-161.7		2089.9		+4829	+1088	779,079	2,145,392	
10	4620		" "	"	9.1	91° 48'	-145.1	-154.2		2097.4		+4507	+1016	778,757	2,145,320	
11	4290		" "	"	11.6	91° 48'	-134.7	-146.3		2105.3		+4185	+943	778,435	2,145,247	
12	3960		" "	"	12.1	91° 48'	-124.3	-136.4		2115.2		+3863	+871	778,113	2,145,175	
13	3630		" "	"	9.8	91° 48'	-114.0	-123.8		2127.8		+3541	+798	777,791	2,145,102	

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
2-3-82		B. COTCAMP		M. KWAPP		6834		MPK Jm		3	2						
AREA		TOPO MAP		STATE	COUNTY	TWP	RANGE	PPM	PARTY MANAGER								
CALIFORNIA		LONE BUTTE SPANGLER HILLS W.		CALIF.	SAN BERNARDINO				L. DAVIS								
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS & TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS	
												LAT.	DEP.	Y	X		
									2251.6								
14	3300		357° 30'	+15.2°	6.2	91° 48'	-103.6	-109.8		2141.8		+3219	+725	777,469	2,145,029		
15	2970		" "	" "	12.1	91° 40'	-86.3	-98.4		2153.2		+2897	+653	777,147	2,144,957		
16	2640		" "	" "	12.4	91° 46'	-76.7	-89.1		2162.5		+2575	+580	776,825	2,144,884		
17	2310		" "	" "	13.6	91° 40'	-67.2	-80.8		2170.8		+2253	+508	776,503	2,144,812		
18	1980		357° 30'	+15.2°	11.6	91° 46'	-61.0	-72.6		2179.0		+1932	+435	776,182	2,144,739		
19	1650		" "	" "	12.1	91° 46'	-50.8	-62.9		2188.7		+1616	+363	775,860	2,144,667		
20	1320		" "	" "	9.6	91° 40'	-38.4	-48.0		2203.6		+1288	+290	775,538	2,144,594		
21	990		" "	" "	5.0	91° 40'	-28.8	-33.8		2217.8		+966	+218	775,216	2,144,522		
22	660		" "	" "	4.2	91° 40'	-19.2	-23.4		2228.2		+644	+145	774,894	2,144,449		
23	330		" "	" "	4.8	91° 40'	-9.6	-14.4		2237.2		+322	+73	774,572	2,144,377		
24	0				5.4	-		-5.4		2246.2	TP	0	0	774,250	2,144,304	SET UP ACROSS STR.	
25	330		196° 34'	+15.2°	8.1	88° -	+11.5	+3.4		2255.0		-281	-174	773,969	2,144,130	LONE BUTTE	
26	660		193° 53'	" "	8.7	88° -	+23.0	+14.3		2265.9		-577	-321	773,673	2,143,983	SPANGLER HILLS WEST	
BM	889		186° 16' 35"	" "	7.8	88° -	+31.0	+23.2		2274.8	BM	-827	-325	773,423	2,143,979	BENCH MARK EL. 2274	
27	990		192° 41'	" "	7.3	88° -	+34.5	+27.2		2278.8		-875	-463	773,375	2,143,841		
28	1320		" "	" "	6.5	88° -	+46.0	+39.5		2291.1		-1167	-617	773,083	2,143,687		
29	1650		192° 26'	" "	6.9	88° -	+57.6	+50.7		2302.3		-1462	-765	772,788	2,143,539		
30	1980		192° 22'	" "	7.3	88° -	+69.1	+61.8		2313.4		-1755	-916	772,495	2,143,388		
31	2310		192° 18'	+15.2°	8.0	88° -	+80.6	+72.6		2324.2		-2049	-1067	772,201	2,143,237		

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
2-3-82		B. COLEMAN		M. KNAPP		6834		MPK Jm		3	3					
AREA		TOPO MAP		STATE		COUNTY		RANGE		PPM		PARTY MANAGER				
CALIFORNIA		SPANGLER HILLS WEST		CALIF.		SAN BERNARDINO						L. DAVIS				
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS	
											LAT.	DEP.	Y	X		
								2251.6								
32	2640		192° 12'	+15.2	6.8	88° -	+92.1	+85.3	2336.9		-2344	-1215	771,906	2,143,089		
33	2970		" "	" "	6.8	88° -	+103.6	+96.8	2348.4		-2637	-1367	771,613	2,142,937		
34	3300		" "	" "	5.3	88° -	+115.1	+109.8	2361.4		-2930	-1519	771,320	2,142,785		
35	3630		" "	+15.2	4.9	88° -	+126.6	+121.7	2373.3		-3223	-1671	771,017	2,142,633		
36	3960		" "	" "	2.9	88° -	+138.1	+135.2	2386.8		-3516	-1822	770,734	2,142,482		
37	4290		" "	" "	7.1	87° 56'	+154.6	+147.5	2399.1		-3809	-1974	770,441	2,142,330		
38	4620		" "	" "	5.8	87° 56'	+166.5	+160.7	2412.3		-4102	-2126	770,148	2,142,178		
39	4950		" "	" "	6.0	87° 56'	+178.4	+172.4	2424.0		-4395	-2278	769,855	2,142,026		
40	5282		192° 12' 03"	+15.5	5.0	87° 56'	+190.4	+185.4	2437.0	TP	-4674	-2454	769,576	2,141,849	E.D.M.	
40	5282				14.2	87° 56'	+199.6	+185.4		TP						
	2969		12° 10' 09" +180°	+15.5	11.3	92° 30'	+129.4	+140.7		BS	-2627	-1377			E.D.M.	
	2969				16.2	92° 36'	+134.6	+140.8	2577.8	BS						
41	2640		12° 10'	+15.5	11.8	92° 30'	-115.1	-126.9	2450.9		+2338	+1226	769,287	2,141,697		
42	2310		" "	" "	12.0	92° 30'	-100.7	-112.7	2465.1		+2046	+1073	768,995	2,141,544		
43	1980		" "	" "	12.0	92° 30'	-86.3	-98.3	2479.5		+1754	+919	768,703	2,141,390		
Bm	1742		16° 23' 39"	" "	11.1	92° 30'	-75.9	-87.0	2490.8	Bm	+1478	+920	768,427	2,141,391	y-768,435 x-2,141,385 Bm. EL. 2491.0	
44	1650		12° 10'	" "	12.9	92° 30'	-71.9	-84.8	2493.0		+1461	+766	768,410	2,141,237		
44	1585		12° 39' 32"	" "	12.6	92° 30'	-69.1	-81.7	2496.1	IT	+1396	+747	768,345	2,141,218	y-768,350 x-2,141,195	
45	1320		12° 10'	" "	12.3	92° 30'	-57.5	-69.8	2508.0		+1169	+613	768,118	2,141,084		

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2-3-82		B. Cotcamp		M. KNAPP		6834		MPK Jim		3	4				
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
CALIFORNIA		SPANGLER HILLS WEST		CALIF.		SAN BERNARDINO					L. DAVIS				
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS
											LAT.	DEP.	Y	X	
								2577.8							
46	990		12° 10'	+15.5	11.9	92° 30'	-43.1	-55.0	2522.8		+877	+460	767,826	2,140,931	
47	660		" "	" "	10.3	92° 30'	-28.8	-39.1	2538.7		+585	+306	767,534	2,140,777	
48	330		" "	" "	7.7	92° 30'	-14.4	-22.1	2555.7		+292	+153	767,241	2,140,624	
49	0				5.4	-		-5.4	2572.4	TP	0	0	766,949	2,140,471	
50	330		192° 01'	+15.5	7.2	86° 40'	+19.2	+12.0	2589.8		-293	-152	766,656	2,140,319	
51	660		" "	" "	8.5	86° 40'	+38.3	+29.8	2607.6		-585	-305	766,364	2,140,166	
52	990		" "	" "	9.9	86° 40'	+57.5	+47.6	2625.4		-878	-457	766,071	2,140,014	
53	1320		" "	" "	12.6	86° 40'	+76.6	+64.0	2641.8		-1171	-610	765,778	2,139,861	
54	1650		" "	" "	8.1	87° -	+86.2	+78.1	2655.9		-1463	-762	765,486	2,139,709	
55	1980		192° 01'	+15.5	7.8	87° -	+103.5	+95.7	2673.5		-1756	-915	765,193	2,139,556	
56	2310		" "	" "	6.1	87° -	+120.7	+114.6	2692.4		-2049	-1067	764,900	2,139,404	
57	2640		" "	" "	4.6	87° -	+138.0	+133.4	2711.2		-2341	-1220	764,608	2,139,251	
58	2969		192° 01' 25"	+15.7	5.9	87° -	+155.2	+149.3	2727.1	TP	-2625	-1379	764,324	2,139,091	
58	2969				11.1	86° 54'	+160.3	+149.2		TP		-1			
	990		12° 18' 42" +180	+15.7	+2.9	93° -	+51.7	+54.6	2781.7	BS	-873	-464			
	990				+11.5	92° 30'	+43.1	+54.6		BS		-1			
59	660		12° 19'	+15.7	9.0	92° 30'	-28.8	-37.8	2743.9		+583	+310	764,034	2,138,936	
Bm	610		05° 36' 12"	" "	7.6	92° 30'	-26.6	-34.2	2747.5	Bm	+568	+221	764,019	2,138,847	y=764,015 x=2,138,815 Bm EL. 2748.0
60	330		12° 19'	" "	7.7	92° 20'	-13.4	-21.1	2760.6		+291	+155	763,742	2,138,781	

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2-3-82		B. COTKAMP		M. KNAPP		6834		MPK Jm		3	5		
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER		
CALIFORNIA		SAUNDLER HILLS WEST		CALIF.		SAN BERNARDINO					L. DAVIS		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS
											NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
								2781.7					
61	0			+15.7	5.4	-	-5.4		2776.3	T	0	0	763,451 2,138,626
62	330		191° 48'	" "	6.7	86° 40'	+19.2	+12.5	2794.2		-293	-152	763,158 2,138,474
63	660		" "	" "	7.7	86° 40'	+38.3	+30.6	2812.3		-585	-305	762,866 2,138,321
64	989		191° 48' 14"	" "	8.1	86° 40'	+57.4	+49.3		TP	-874	-459	762,577 2,138,166
64	989				5.2	86° 50'	+54.6	+49.4	2831.1	TP			
	2970		12° 30' 48" +180	+15.9	+12.1	93° -	+155.2	+167.3		BS	-2609	-1411	
	2970				+7.0	93° 06'	+160.4	+167.4	2998.5	BS			
65	2640		12° 36'	+15.9	10.1	93° -	-138.0	-140.1	2850.4		+12320	+1260	762,287 2,138,014
66	2310		" "	" "	8.7	93° -	-120.7	-129.4	2869.1		+2030	+1102	761,997 2,137,856
67	1980		" "	" "	7.0	93° -	-103.5	-110.5	2888.0		+1740	+945	761,707 2,137,699
68	1650		" "	" "	5.9	93° -	-86.2	-92.1	2906.4		+1450	+787	761,417 2,137,541
69	1320		12° 36'	" "	6.3	93° -	-69.0	-75.3	2923.2		+1160	+630	761,127 2,137,384
70	990		" "	+15.9	5.8	93° -	-51.7	-57.5	2941.0		+870	+472	760,837 2,137,226
71	660		" "	" "	4.9	93° -	-34.5	-39.4	2959.1		+580	+315	760,547 2,137,069
72	330		" "	" "	4.1	93° -	-17.2	-21.3	2977.2		+290	+157	760,257 2,136,911
73	0			" "	5.4	-	-5.4		2993.1	T	0	0	759,967 2,136,754
IF	119		186° 27' 14"	" "	3.3	87° 30'	+5.2	+1.9	3000.4	IF	-110	-45	759,857 2,136,709 y Ramp west
74	330		194° 31'	" "	8.0	86° 40'	+19.2	+11.2	3009.7		-285	-167	759,682 2,136,587
Bm	555		200° 14' 32"	+15.9	6.1	86° 40'	+32.2	+26.1	3024.6	Bm	-447	-328	759,520 2,136,426 Bm. FL. 3025

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2-4-82		B. COLCAMP		M. KWAPP		6834		MPK <i>JK</i>		3		6							
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER					
CALIFORNIA		SPANGLER HILLS		CALIF.		SAN BERNARDINO								L. DAVIS					
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS	
												LAT.	DEP.	Y	X				
									2998.5										
75	660		194° 31'	+15.9	13.0	86° 40'	+38.3	+25.3		3023.8		-569	-334	759,398	2,136,420				
76	990		" "	+15.9	11.4	86° 50'	+54.6	+43.2		3041.7		-854	-501	759,113	2,136,253				
77	1320		" "	" "	12.4	86° 50'	+72.8	+60.4		3058.9		-1138	-668	758,829	2,136,086				
78	1650		" "	" "	9.2	87° -	+86.2	+87.0		3085.5		-1423	-835	758,544	2,135,919				
79	1980		" "	" "	9.5	87° -	+103.5	+94.0		3092.5		-1707	-1002	758,260	2,135,752				
80	2310		" "	" "	6.3	87° -	+120.7	+114.4		3112.9		-1992	-1170	757,975	2,135,584				
81	2640		" "	" "	7.3	87° -	+138.0	+130.7		3129.2		-2277	-1337	757,690	2,135,417				
82	2970		194° 36' "	+15.4	11.8	87° -	+155.2	+143.4		3141.9	TP	-2568	-1483	757,398	2,135,270	E.O.M.			
82	2970		" "	" "	8.4	87° 04'	+151.8	+143.4			TP	-	-						
	1980		15° 03' 58" +180	+15.4	16.1	92° 30'	+86.3	+92.4	3234.3		BS	-1705	-1003						
	1980		" "	" "	11.8	92° 20'	+80.5	+92.3			BS	-	-						
83	1650		15° 04'	+15.4	10.6	92° 30'	-71.9	-82.5		3151.8		+1422	+837	757,114	2,135,103				
84	1320		" "	" "	13.0	92° 30'	-57.5	-70.5		3163.8		+1138	+669	756,830	2,134,935				
85	990		" "	" "	12.3	92° 30'	-43.1	-55.4		3178.9		+853	+502	756,545	2,134,768				
86	660		14° 13'	" "	8.5	92° 30'	-28.8	-37.3		3197.0		+574	+326	756,266	2,134,592				
87	330		12° 43'	+15.4	6.1	92° 30'	-14.4	-20.5		3213.8		+291	+156	755,983	2,134,422				
88	0		" "	" "	5.4	-	-	-5.4		3228.9	X	0	0	755,692	2,134,266	SET UP REPOS			
89	330		209° 17'	+15.4	7.8	87° 50'	+12.5	+4.7		3239.0		-235	-232	755,457	2,134,034				
90	660		208° 07'	" "	7.8	88° -	+23.0	+15.2		3249.5		-479	-454	755,213	2,133,812				

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
2-4-82		D. COTCAMP		M. KNAAP		6834		MPK Jm		3	7					
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER						
CALIFORNIA		SPANGLER HILLS WEST		CAUF.	SAN BERNARDINO					L. DAVIS						
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
									3234.3							
1f	907		206° 58' 56"	+15.4	7.0	88° -	+31.6	+24.6		3258.9	1f	-670	-611	755,022	2,133,655	TRO EAST. X-2133670 y-755,010
91	990		207° 52'	" "	8.1	88° -	+34.5	+26.4		3260.7		-721	-679	754,971	2,133,587	
92	1320		208° 23' 50"	" "	14.3	88° -	+46.0	+31.7		3266.0	TP	-952	-913	754,739	2,133,352	ACROSS STA.
92	1370				10.5	88° 10'	+42.2	+31.7			TP	-	-			
	660		36° 31' 23" +180	+15.4	+12.7	90° 30'	+5.8	+18.5	3284.5		BS	-407	-520			
	660				+10.8	90° 40'	+7.7	+18.5			BS	-	-			
93	330		34° 10'	+15.4	9.5	90° 50'	-4.8	-14.3		3270.2		+214	+251	754,545	2,133,082	
94	0				5.4	-	-	-5.4		3279.1	X	0	0	754,331	2,132,831	
95	230		214° 10'	+15.4	7.1	90° 50'	-4.8	-11.9		3272.6		-214	-251	754,117	2,132,580	
96	660		" "	" "	9.0	91° 20'	-15.4	-24.4		3260.1		-428	-502	753,903	2,132,329	
97	990		214° 09' 54"	" "	11.8	91° 20'	-23.0	-34.8		3249.7	TP	-642	-753	753,688	2,132,077	
97	990				14.7	91° 10'	-20.2	-34.9			TP	-	-			
	2624		28° 15' 38" +180	+15.4	13.3	89° 40'	-15.3	-12.0	3237.7		BS	-1898	-1812			E.O.M
	2624				+10.9	89° 30'	-22.9	-12.0			BS	-	-			
98	2796		27° 16'	+15.4	9.7	89° 40'	+13.4	+3.7		3241.4		+1688	+1556	753,477	2,131,820	E.O.M. AROUND
99	1969		25° 58'	" "	12.1	89° 40'	+11.5	-0.6		3237.1		+1478	+1301	753,267	2,131,565	E.O.M. CORNER
100	1643		24° 21'	" "	7.0	-	-	-7.0		3230.7		+1266	+1054	753,049	2,131,318	" "
101	1318		22° 21'	" "	9.8	-	-	-9.8		3227.9		+1042	+807	752,831	2,131,071	" "
102	990		20° 50'	" "	11.5	-	-	-11.5		3226.2		+798	+586	752,587	2,130,850	

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
2-4-82		B. COLCAMP		M. KWAPP		6834		MPK Jm		3	8			
AREA		TOPO MAP		STATE		COUNTY		TWP		PARTY MANAGER				
CALIFORNIA		SPANGLER HILLS W.		CALIF.		SAN BERNARDINO				L. DAVIS				
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
											NORTH + SOUTH -	EAST + WEST -		Y
								3237.7						
103	660		20° 53'	+15.4	11.8	-	-11.8		3225.9		+532	+391	752,321 2,130,655	
104	330		" "	" "	8.1	-	-8.1		3229.6		+266	+195	752,055 2,130,459	
11	236		24° 01' 41"	" "	5.5	-	-5.5		3232.2	11	+182	+150	751,971 2,130,411	y=751,995 x=2,130,450
BM	198		50° 48' 20"	" "	3.0	-	-3.0		3234.7	BM	+80	+181	751,869 2,130,445	BM EL. 3236
105	0				5.4	-	-5.4		3232.3	π	0	0	751,789 2,130,264	
106	330		200° 36'	+15.4	8.1	-	-8.1		3229.6		-267	-194	751,522 2,130,070	
107	660		" "	" "	9.7	91° 10'	-13.4	-23.1	3214.6		-534	-388	751,255 2,129,876	
108	990		" "	" "	12.1	91° 18'	-22.5	-34.6	3203.1		-801	-582	750,988 2,129,682	
109	1320		" "	" "	11.3	91° 18'	-29.9	-41.2	3196.5		-1068	-776	750,721 2,129,488	
110	1650		" "	" "	9.6	91° 10'	-33.6	-43.2	3194.5		-1335	-970	750,454 2,129,294	
111	1980		" "	+15.4	7.8	91° 10'	-40.3	-48.1	3189.6		-1662	-1164	750,187 2,129,100	
112	2310		" "	" "	9.5	91° 10'	-47.0	-56.5	3181.2		-1869	-1358	749,920 2,128,906	
113	2639		200° 35' 42"	+14.9	8.7	91° 10'	-53.7	-62.4		TP	-2148	-1532	749,640 2,128,731	
113	2639				13.2	91° 04'	-49.1	-62.3	3175.4	TP				
	2310		20° 24' 48" +180°	+14.9	14.2	BH	+11.6	+25.8	3201.2	BS	-1883	-1338		
	2310				12.3	90° 20'	+13.4	+25.7		BS				
114	1980		20° 36'	+14.9	15	90° 40'	-23.0	-30.5	3170.7		+1614	+1147	749,370 2,128,539	
115	1650		" "	" "	18.0	90° 40'	-19.2	-31.2	3170.0		+1345	+956	749,101 2,128,348	
116	1320		" "	" "	6.7	91° -	-23.0	-29.7	3171.5		+1076	+765	748,832 2,128,157	

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
2-4-82		B. COTCAMP		M. KUAPP		6834		MPK <i>JK</i>		3	9			
AREA		TOPO MAP		STATE		COUNTY		RANGE		PPM		PARTY MANAGER		
CALIFORNIA		SPANGLER HILLS W		CALIF.		SAN BERNARDINO						L. DAVIS		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									3201.2					
117	990		20° 30'	+14.9	9.9	91°-	-17.3	-27.2		3174.0		+807	+573	748,563 2,127,965
118	660		" "	" "	9.8	91°-	-11.5	-21.3		3179.9		+538	+382	748,294 2,127,774
119	330		" "	" "	3.9	91°-	-5.8	-9.7		3191.5		+269	+191	748,025 2,127,583
120	0				5.4	-		-5.4		3195.8	TP	0	0	747,756 2,127,392
121	330		200° 24'	+14.9	11.1	91°-	-5.8	-16.9		3184.3		-269	-191	747,487 2,127,201
122	660		" "	" "	8.5	91°-	-11.5	-20.0		3181.2		-539	-381	747,217 2,127,011
123	990		" "	" "	4.1	91°-	-17.3	-21.4		3179.8		-808	-572	746,948 2,126,820
124	1320		" "	" "	11.9	90°20'	-7.7	-19.6		3181.6		-1077	-763	746,679 2,126,629
125	1650		" "	" "	3.8	90°20'	-9.6	-13.4		3187.8		-1347	-953	746,409 2,126,439
126	1980		" "	" "	11.8	TH	+9.9	-1.9		3199.3		-1616	-1144	746,140 2,126,248
127	2310		200° 24' 26"	+14.7	2.1	TH	+11.6	+9.5		3210.7	TP	-1890	-1329	745,865 2,126,062
127	2310				4.0	89°40'	+13.4	+9.4			TP			
	1650		16° 55' 14" +180°	+14.7	+13.4	87°-	-86.2	-72.8	3137.9		BS	-1403	-864	
	1650				+11.5	87°04'	-84.3	-72.8			BS			
128	1320		16° 28'	+14.7	4.8	87°-	+69.0	+64.2		3202.1		+1128	+685	745,589 2,125,882
129	990		16° 07'	" "	6.2	87°-	+51.7	+45.5		3183.4		+848	+510	745,309 2,125,707
130	660		15° 17'	" "	8.5	87°	+34.5	+26.0		3163.9		+571	+332	745,032 2,125,529
131	330		13° 29'	" "	8.8	87°	+17.2	+8.4		3146.3		+290	+157	744,751 2,125,354
132	0				5.4	-		-5.4		3132.5	TP	0	0	744,461 2,125,197

SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
2-4-82		B. COTCAMP		M. KWAPP		6834		MPK <i>JK</i>		3	10			
AREA		TOPO MAP		STATE		COUNTY		RANGE		PARTY MANAGER				
CALIFORNIA		SPANGLER HILLS W.		CALIF.		SAN BERNARDINO				L. DAVIS				
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
											NORTH + SOUTH -	EAST + WEST -		Y
								3137.9						
133	330		184° 20'	+14.7	6.8	92° 30'	-14.4	-21.2	3116.7		-312	-109	744,149 2,125,088	
134	660		181° 13'	" "	8.8	92° 30'	-28.8	-37.6	3100.3		-634	-183	743,827 2,125,014	
135	990		178° 27'	" "	11.2	92° 30'	-43.1	-54.3	3088.6		-963	-229	743,498 2,124,968	
BM	1296		182° 16' 24"	" "	7.7	92° 20'	-52.7	-60.4	3077.5	BM	-1239	-378	743,222 2,124,819	BENCH MARK FL.
≠	1382		176° 01' 18"	" "	8.5	92° 40'	-64.2	-72.7	3065.2	≠	-1356	-257	743,105 2,124,940	AL Y-743,105 Horiz X-2,124,940 CORR.
136	1317		176° 55' 18"	+15.1°	8.5	92° 40'	-61.2	-69.7	3068.2	TP	-1287	-274	743,172 2,124,924	Y-11 X--17
136	1317			" "	12.3	92° 30'	-57.4	-68.7		TP	-2	+1		
	5278		351° 13' 51" - 180°	+15.1°	+9.6	88° -	-184.1	-174.5	2893.7	BS	-5243	-582		E.O.M.
	5278				+3.4	88° 04'	-178.0	-174.6		BS	-2	+1		
137	4950		351° 14'	+15.1°	7.8	88° 04'	+166.9	+159.1	3052.8		+4920	+546	742,847 2,124,889	
138	4620		" "	" "	11.0	88° 04'	+155.8	+144.8	3038.5		+4592	+510	742,519 2,124,853	
139	4290		" "	" "	13.6	88° 04'	+144.7	+131.1	3024.8		+4264	+473	742,191 2,124,816	
140	3960		" "	" "	7.0	88° 14'	+122.0	+115.0	3008.7		+3936	+437	741,863 2,124,780	
141	3630		" "	" "	6.2	88° 22'	+103.4	+97.2	2990.9		+3608	+400	741,535 2,124,743	
142	3200		" "	" "	7.1	88° 30'	+86.4	+79.3	2973.0		+3280	+364	741,207 2,124,707	
143	2970		351° 14'	+15.1°	7.1	88° 42'	+67.4	+60.3	2954.0		+2952	+328	740,879 2,124,671	
144	2640		" "	" "	6.3	88° 56'	+49.1	+42.8	2936.5		+2624	+291	740,551 2,124,634	
145	2310		" "	" "	11.2	89° -	+40.3	+29.1	2922.8		+2296	+255	740,223 2,124,598	
146	1980		" "	" "	5.7	89° 20'	+23.0	+17.3	2911.0		+1968	+218	739,895 2,124,561	

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
2-8-82		B. COTCAMP		M. KNAPP		6834		MPK <i>[Signature]</i>		3	11			
AREA		TOPO MAP		STATE		COUNTY		TWP		PARTY MANAGER				
CALIFORNIA		SPANGLER HILLS WEST		CALIF.		SAN BERNARDINO				L. DAVIS				
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS A TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									2893.7					
147	1650		351° 14'	+15.1°	10.2	89° 20'	+19.2	+9.0		2902.7		+1640	+182	739,567 2,124,525
148	1320		" "	"	5.0	87° 20'	+15.4	+10.4		2904.1		+1312	+146	739,239 2,124,489
149	990		" "	"	7.4	89° 16'	+14.4	+7.0		2900.7		+984	+109	738,911 2,124,452
150	660		" "	"	5.3	89° 10'	+9.6	+4.3		2898.0		+656	+73	738,583 2,124,416
151	330		" "	"	4.1	89° 10'	+4.8	+0.7		2894.4		+328	+36	738,255 2,124,379
152	0				5.4	-		-5.4		2888.3	T	0	0	737,927 2,124,343
153	330		171° 12'	+15.1°	5.0	91° -	-5.8	-10.8		2882.9		-328	-36	737,599 2,124,307
154	660		" "	"	7.0	91° -	-11.5	-18.5		2875.2		-656	-72	737,271 2,124,271
155	990		" "	"	7.7	91° -	-17.3	-25.0		2868.7		-984	-109	736,943 2,124,234
156	1320		" "	"	9.5	91° -	-23.0	-32.5		2861.2		-1312	-145	736,615 2,124,198
157	1650		" "	"	9.0	91° 10'	-33.6	-42.6		2851.1		-1640	-181	736,287 2,124,162
158	1990		" "	"	12.3	91° 10'	-40.3	-52.6		2841.1		-1968	-217	735,959 2,124,126
159	2171		170° 54' 16"	+15.1°	13.2	91° 10'	-44.2	-57.4		2836.3		-2159	-227	735,768 2,124,116 <i>V-735,790</i> <i>Road X-2,124,100</i>
159	2310		171° 12'	"	7.8	91° 20'	-53.7	-61.5		2832.2		-2296	-253	735,631 2,124,090
160	2640		" "	"	7.1	91° 20'	-61.4	-68.5		2825.2		-2624	-290	735,303 2,124,053
161	2970		" "	"	5.0	91° 20'	-69.1	-74.1		2819.6		-2952	-326	734,975 2,124,017
162	3300		" "	"	8.2	91° 10'	-67.2	-75.4		2818.3		-3280	-362	734,647 2,123,981
R.R.	3360		170° 59' 48"	+15.1°	6.8	91° 10'	-68.4	-75.2		2818.5		-3340	-357	734,587 2,123,986 <i>V-734,600</i> <i>R.R. X-2,123,955</i>
163	3630		171° 12'	"	6.0	91° 10'	-73.9	-79.9		2813.8		-3668	-398	734,319 2,123,945

SURVEY NOTES-HIGH RESOLUTION DATA
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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
2-8-82		B. Cotcamp		M. KNAPP		6834		MPK Jm		3		12			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
CALIFORNIA		SPAIN-LEER HILLS WEST		CALIF.		SAN BERNARDINO								L. DAVIS	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									2893.7						
164	3960		171° 12'	+15.1°	4.0	91° 10'	-80.6	-84.6		2809.1		-3936	-435	733,991	2,123,908
165	4290		" "	"	12.2	91° -	-74.9	-87.1		2806.6		-4264	-471	733,663	2,123,872
166	4620		" "	"	6.9	91° -	-80.6	-87.5		2806.2		-4592	-567	733,335	2,123,836
167	4950		" "	"	8.1	90° 34'	-49.0	-51.1		2836.6		-4920	-543	733,007	2,123,800
168	5277		171° 11' 38"	+15.3°	5.3	90° 50'	-76.7	-82.0		2811.7	TP	-5243	-597	732,682	2,123,747 E.O.M.
168	5277				14.7	90° 44'	-67.5	-82.2			TP		+1		
	5279		351° 35' 16" -180°	+15.3°	+8.6	91° 16'	+116.7	+125.3	2937.0		BS	-5240	-633		E.O.M.
	5279				+2.4	91° 20'	+122.8	+125.2			BS		+2		
169	4950		351° 35'	+15.3°	4.8	91° 20'	-115.1	-119.9		2817.1		+4914	+593	732,354	2,123,709
170	4620		351° 35'	"	6.7	91° 20'	-107.5	-114.2		2822.8		+4587	+554	732,027	2,123,670
#	4427		351° 44' 17"	"	8.0	91° 20'	-103.0	-111.0		2826.0	#	+4592	+542	731,832	2,123,658 V-731,860 4-ROAD X-2,123,640
171	4290		351° 35'	+15.3°	9.0	91° 20'	-99.8	-108.8		2828.2		+4259	+514	731,699	2,123,630
172	3960		" "	"	12.0	91° 20'	-92.1	-104.1		2832.9		+3931	+475	731,371	2,123,591
173	3630		" "	"	6.3	91° 30'	-95.0	-101.3		2835.7		+3609	+435	731,044	2,123,551
174	3300		" "	"	6.6	91° 40'	-95.9	-102.5		2834.5		+3276	+396	730,716	2,123,512
175	2970		" "	"	9.9	91° 40'	-86.3	-96.2		2840.8		+2949	+356	730,389	2,123,472
176	2640		" "	"	11.0	91° 40'	-76.7	-87.7		2849.3		+2621	+316	730,061	2,123,432
177	2310		351° 35'	+15.3°	11.8	91° 40'	-67.2	-79.0		2858.0		+2293	+277	729,733	2,123,393
178	1980		" "	"	7.4	91° 40'	-57.6	-65.0		2872.0		+1966	+237	729,406	2,123,353

SURVEY NOTES-HIGH RESOLUTION DATA
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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
2-8-82		B. Cotcamp		M. Knapp		6834		MPK Jm		3		13			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
CALIFORNIA		SPANGLER HILLS WEST KLINKER MTN.		CALIF.		SAN BERNARDINO								L. DAVIS	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									2937.0						
179	1650		351° 35'	+15.3°	5.1	91° 40'	-48.0	-53.1		2883.9		+1638	+198	729,078	2,123,314
180	1320		" "	"	7.0	91° 40'	-38.4	-45.4		2891.6		+1310	+158	728,750	2,123,274
181	990		" "	"	9.9	91° 40'	-28.8	-38.7		2898.3		+983	+119	728,423	2,123,255
182	660		" "	"	9.9	91° 40'	-19.2	-29.1		2907.9		+655	+79	728,095	2,123,195
183	330		" "	"	8.3	91° 40'	-9.6	-17.9		2919.1		+328	+40	727,768	2,123,156
184	0				5.4	-		-5.4		2931.6	π	0	0	727,440	2,123,116
185	330		171° 33'	+15.3°	6.1	87° -	+17.2	+11.1		2948.1		-328	-39	727,112	2,123,077
186	660		" "	"	10.0	87° -	+34.5	+24.5		2961.5		-655	-79	726,785	2,123,037
187	990		" "	"	7.2	87° 30'	+43.1	+35.9		2972.9		-983	-118	726,457	2,122,998
188	1320		" "	"	10.3	87° 30'	+57.5	+47.2		2984.2		-1311	-157	726,129	2,122,959
189	1650		" "	"	11.6	87° 30'	+71.9	+60.3		2997.3		-1638	-197	725,802	2,122,919
190	1980		171° 33'	+15.3°	11.3	87° 30'	+86.3	+75.0		3012.0		-1966	-236	725,474	2,122,880
191	2310		" "	"	10.0	87° 30'	+100.7	+90.7		3027.7		-2294	-276	725,146	2,122,840
192	2640		" "	"	9.9	87° 30'	+115.1	+105.2		3042.2		-2621	-315	724,819	2,122,801
193	2970		" "	"	8.3	87° 30'	+129.4	+121.1		3058.1		-2949	-354	724,491	2,122,762
194	3300		" "	"	8.5	87° 30'	+143.8	+135.3		3072.3		-3276	-394	724,164	2,122,722
195	3630		" "	"	7.2	87° 30'	+158.2	+151.0		3088.0		-3604	-433	723,836	2,122,683
196	3917		171° 22 29"	+15.3°	5.7	87° 30'	+170.7	+165.0		3102.0	π	-3887	-455	723,553	2,122,661
196	3960		171° 33'	"	5.0	87° 30'	+172.6	+167.6		3104.6		-3932	-472	723,508	2,122,644

2-723,555
K-72,122,675
T-ROAD WEST EL. 3162

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
2-8-82		B. Cotcamp		M. KNAPP		6834		MPE Jon		3	14			
AREA		TOPO MAP		STATE		COUNTY		TWP		PARTY MANAGER				
CALIF.		KLINKER MTD		CALIF.		SAN BERNARDINO				L. Davis				
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
											NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
								2937.0						
197	4290		171° 33'	+15.3°	9.0	87° 24'	+194.4	+185.4	3122.4		-4259	-512	723,181 2,122,604	
198	4620		" "	"	8.0	87° 24'	+209.4	+201.4	3138.4		-4587	-551	722,853 2,122,565	
199	4950		" "	+15.3°	6.7	87° 24'	+224.3	+217.6	3154.6		-4915	-590	722,525 2,122,526	
200	5279		171° 32' 41"	+14.9°	1.7	87° 24'	+239.2	+237.5		TP	-5240	-592	722,198 2,122,526	E.O.M.
200	5279			"	7.7	87° 20'	+245.3	+237.6	3174.6	TP	-2	+2		
	2310		352° 06' 46" -180	+14.9°	+10.8	93° 26'	+138.1	+148.9	3323.5	BS	-2289	-282		
	2310				+8.1	93° 30'	+140.7	+148.8		BS	-2	+2		
201	1980		352° 07'	+14.9°	9.0	93° 30'	-120.6	-129.6	3193.9		+1965	+242	721,872 2,122,488	
202	1650		" "	"	9.1	93° 30'	-100.5	-109.6	3213.9		+1638	+202	721,545 2,122,448	
203	1320		" "	"	9.1	93° 30'	-80.4	-89.5	3234.0		+1310	+161	721,217 2,122,407	
204	990		" "	"	7.1	93° 30'	-60.3	-67.4	3256.1		+983	+121	720,890 2,122,367	
205	660		" "	"	5.7	93° 30'	-40.2	-45.9	3277.6		+655	+81	720,562 2,122,327	
206	330		" "	"	4.3	93° 30'	-20.1	-24.4	3299.1		+328	+40	720,235 2,122,286	
207	0				5.4	-		-5.4	3318.1	T	0	0	719,907 2,122,246	
208	330		171° 46'	+14.9°	7.8	86° 10'	+22.0	+14.2	3337.7		-328	-38	719,579 2,122,208	
209	660		" "	"	8.6	86° 10'	+44.0	+35.4	3358.9		-656	-77	719,251 2,122,169	
#	823		170° 45' 30"	+14.9°	9.4	86° 10'	+54.9	+45.5	3369.0	#	-817	-81	719,090 2,122,165	TRDFAST EL. 3371.0
210	990		171° 46'	" "	10.7	86° 10'	+66.0	+55.3	3378.8		-983	-115	718,924 2,122,131	Horiz cor. y -12', x +9'
211	1320		" "	" "	12.9	86° 10'	+88.0	+75.1	3398.6		-1311	-153	718,596 2,122,093	

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
2-8-82		B. COCCAMP		M. KNAPP		6834		MPK Jon		3	15					
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER						
CALIFORNIA		KUNGER MTD.		CALIFORNIA	SAN BERNARDINO					L. DAVIS						
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS A TP	NORTH +	EAST +	COORDINATES		REMARKS
												SOUTH -	WEST -	Y	X	
												LAT.	DEP.			
									3323.5							
212	1650		171° 46'	+14.9°	8.0	86° 30'	+100.5	+92.5		3416.0		-1639	-192	718,268	2,122,054	
213	1980		171° 46' 21"	+14.5°	12.7	86° 36'	+120.6	+107.9		3431.4	TP	-1964	-216	717,950	2,122,030	
213	1980				9.3	86° 36'	+117.2	+107.9			TP	+7				
	1318		338° 10' 40" -180	+14.5°	+7.9	-		+7.9		3439.3	BS	-1307	+168			
	1318				+14.4	TM	-6.6	+7.8			BS	+7				
214	990		335° 20'	+14.5°	8.4	-		-8.4		3430.9		+974	-175	717,624	2,122,023	
215	660		335° 05'	" "	12.1	BM	-3.3	-15.4		3423.9		+649	-119	717,299	2,122,079	
216	330		332° 12'	" "	10.1	-		-10.1		2429.2		+321	-76	716,971	2,122,122	
217	0				5.4	-		-5.4		3433.9	T	0	0	716,650	2,122,198	
218	330		138° 15'	+14.5°	10.2	88° 30'	+8.6	-1.6		3431.7		-293	+151	716,357	2,122,349	
219	660		" "	" "	3.3	88° 30'	+17.3	+14.0		3453.3		-587	+302	716,063	2,122,500	
220	990		139° 02'	" "	5.1	88° -	+34.5	+29.4		3468.7		-886	+441	715,764	2,122,639	
221	1320		139° 32' 48"	" "	5.5	88° -	+46.0	+40.5			TP	-1186	+577	715,471	2,122,775	
221	1320				9.3	87° 50'	+49.9	+40.6		3479.9	TP					
	1650		342° 42' 12" -180	+14.5°	+1.9	89° -	-28.8	-26.9		3453.0	BS	-1648	+80			
	1650				+6.6	88° 50'	-33.6	-27.0			BS					
#1 222	1425		342° 58' 20"	+14.5°	8.7	88° 40'	+33.1	+24.4		3477.4						TROWEST EL. 2479
222	1320		342° 02'	" "	9.1	88° 40'	+30.7	+21.6		3474.6		+1318	-80	715,148	2,122,775	
223	990		241° 12'	" "	8.8	88° 40'	+23.0	+14.2		3467.2		+987	-74	714,817	2,122,781	

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
2-9-82		B. Cotcamp		M. Knapp		6834		MPK Jm		5	16				
AREA		TOPO MAP	STATE	COUNTY	TWP	RANGE	PPM	PARTY MANAGER							
CALIF.		KLICKER MTS.	CALIF.	SAN BERNARDINO				L. DAVIS							
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									3453.0						
224	660		339° 47'	+14.5°	8.1	88° 40'	+15.4	+7.3		3460.3		+657	-66	714,487	2,122,789
225	330		337° 44'	" "	10.6	88° 40'	+7.7	-2.9		3450.1		+327	-45	714,157	2,122,810
226	0		47° 05' 39"	" "	5.7	88° 40'	+0.4	-5.3		3447.7	22				T-RO WEST EL. 3448
227	330		140° 47'	+14.5°	7.5	88° -	+11.5	+4.0		3457.0		-300	+138	713,830	2,122,855
228	660		" "	" "	2.3	88° -	+23.0	+20.7		3473.7		-600	+276	713,530	2,122,993
229	990		" "	" "	7.0	87° 40'	+40.3	+33.3		3486.3		-899	+414	713,230	2,123,131
230	1320		140° 54' 20"	+14.1°	8.6	87° 40'	+53.7	+45.1		3498.1	TP	-1195.7	+557.4	712,931	2,123,269
230	1320				4.8	87° 50'	+49.9	+45.1			TP				
	1320		329° 55' 44" -180	+14.1°	+7.9	87° 40'	-53.7	-45.8	3452.3		BS	-1268.7	+363.1		
	1320				+11.7	87° 36'	-57.5	-45.8			BS				
231	990		329° 56'	+14.1°	4.8	87° 30'	+43.1	+38.3		3490.6		+952	-272	712,933	2,123,505
232	660		" "	" "	12.3	87° 30'	+28.8	+16.5		3468.8		+635	-182	712,016	2,123,595
233	330		" "	" "	6.7	89° -	+5.8	-0.9		3451.4		+317	-91	711,698	2,123,686
234	0		333° 21' 47"	" "	8.8	89° -	+4.1	-4.7		3447.6					T-RO. EAST
234	0				5.4	-		-5.4		3446.9	22	0	0	711,381	2,123,777 ACROSS STR.
235	330		169° 38'	+14.1°	13.0	89° 10'	+4.8	-8.2		3444.1		-329	-21	711,052	2,123,756
236	665		169° 52' 08"	+14.6°	4.9	90° 50'	-9.7	-14.6			TP	-663.7	-52.1	710,725	2,123,726
236	665				6.8	90° 40'	-7.7	-14.5		3437.8	TP				

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
2-9-82		B. COSTAMP		M. KNAPP		6834		MPK Jm		3	17					
AREA		TOPO MAP	STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
CALIFORNIA		KLUNKER Mtn.	CAIF.	SAN BERNARDINO					L. DAVIS							
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS
												LAT.	DEP.	Y	X	
										3437.8						
	3537		09° 59' 37" +180°	+14.6	+2.9	88° -	-123.4	-120.5			BS	-3214	-1471			E.P.M.
	3537				+9.1	87° 54'	-129.5	-120.4	3317.4		BS					
237	3207		09° 54'	+14.6	13.1	87° 50'	+121.2	+108.1		3425.5		+2918	+1330	710436	2,122,586	
238	2877		09° 51'	" "	6.9	88° -	+100.3	+93.4		3410.8		+269	+191	710,137	2,122,447	
239	2547		09° 44'	" "	8.0	88° -	+88.8	+80.8		3398.2		+2321	+1049	709,899	2,122,305	
240	2217		" "	" "	6.0	88° -	+77.3	+71.3		3388.7		+2020	+914	709,538	2,122,170	
241	1887		09° 32'	+14.6	7.7	88° -	+65.8	+58.1		3375.5		+1722	+772	709,240	2,122,028	
242	1557		09° 09'	" "	9.0	88° -	+54.3	+45.3		3362.7		+1425	+627	708,943	2,122,883	
243	1227		08° 47'	" "	11.8	88° -	+42.8	+31.0		3348.4		+1126	+487	708,644	2,122,743	
244	897		08° 13'	" "	14.2	88° -	+31.3	+17.1		3334.5		+827	+348	708,345	2,122,604	
245	567		06° 31'	" "	6.0	88° -	+19.8	+13.8		3331.2		+529	+204	708,047	2,122,460	
246	237		02° 14'	" "	6.5	88° -	+8.3	+1.8		3319.2		+227	+69	707,745	2,122,325	
Σ	0				5.4	-	-	-5.4		3312.0	Σ	0	0	707,518	2,122,256	between STA.
247	89		169° 58'	+14.6	6.3	91° 30'	-2.3	-8.6		3308.8		-89	-7	707,429	2,122,249	
248	419		" "	" "	11.3	91° 30'	-11.0	-22.3		3295.1		-418	-33	707,100	2,122,223	
249	749		" "	" "	7.1	92° 10'	-28.3	-35.4		3282.0		-747	-60	706,771	2,122,196	
250	1079		" "	" "	9.6	92° 10'	-40.8	-50.4		3267.0		-1076	-86	706,442	2,122,170	
251	1409		169° 30'	+14.6	9.0	92° 10'	-53.2	-62.2		3255.2		-1405	-101	706,113	2,122,155	
252	1739		169° 06'	" "	7.5	92° -	-60.7	-68.2		3249.2		-1735	-112	705,783	2,122,144	
253	2069		168° 35'	" "	10.9	91° 40'	-60.1	-71.0		3246.1		-2066	-115	705,452	2,122,141	

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
2-9-82		B. Cotcann		M. Kwapp		6034		MPK Jm		3	18					
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER						
CALIFORNIA		KUNKER MTD		CALIF.	SAB BERNARDINO					L. DAVIS						
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
254	2399		168° 44'	+14.6	4.0	91° 40'	-69.7	-73.7		3243.7		-295	-139	705,123	2,122,117	
255	2729		168° 40'	" "	13.5	91° 40'	-68.5	-77.0		3240.4		-2725	-156	704,793	2,122,100	
256	3059		168° 44'	" "	4.1	91° 20'	-71.2	-75.3		3242.1		-3054	-178	704,464	2,122,078	
257	3389		168° 08' 56"	+14.9	3.1	91° 14'	-72.9	-76.0		3241.4	TP	-3383.7	-180	704,142	2,122,076	
257	3389				7.0	91° 10'	-69.0	-76.0			TP					
BS	1650		347° 28' 48" - 180	+14.9	9.9	89° 30'	-14.4	-4.5	3236.9		BS	-1649.7	-69			
BS	1650			+14.8		89° 20'	-19.2	-4.4			BS					
258	1320		347° 21'	+14.9	7.4	89° 40'	+7.7	+0.3		3237.2		+1319	+52	703,819	2,122,059	
259	990		" "	" "	7.1	89° 40'	+5.8	-1.3		3235.6		+989	+39	703,489	2,122,046	
260	660		" "	" "	7.0	89° 40'	+3.8	-3.2		3233.7		+659	+26	703,159	2,122,033	
261	330		" "	" "	5.8	89° 40'	+1.9	-3.9		3233.0		+330	+13	702,830	2,122,020	
262	0				5.4	-		-5.4		3231.5	T	0	0	702,500	2,122,007	
263	330		167° 10'	+14.9	8.6	-		-8.6		3228.3		-330	-12	702,170	2,121,995	
264	660		" "	" "	12.3	84	-3.3	-15.6		3221.3		-660	-24	701,840	2,121,983	
265	990		" "	" "	7.4	91°	-17.3	-24.7		3212.2		-989	-36	701,511	2,121,971	
266	1320		" "	" "	8.4	91°	-23.0	-31.4		3205.5		-1319	-48	701,181	2,121,959	
#267	1650		" "	" "	9.4	91° 10'	-33.6	-43.0		3193.9		-1649	-60	700,851	2,121,947	
16	1730		166° 49' 46"	" "	9.3	91° 10'	-35.2	-44.5		3192.4	TP	-1729.4	-52	700,775	2,121,935	
17	1730				9.4	268 50	-35.2	-44.6			TP					

Y=700,775
X=2,121,955
T-RD WEST E2 3/94
Horiz 9-T74
CORR. X-

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE 2-9-82	INSTRUMENT MAN B. COZAMP	ROD MAN M. KWAPP	PARTY NUMBER 6834	NOTES CHECKED BY MPC	LINE NO. 3	PAGE 19
AREA CALIFORNIA	TOPO MAP KLUNKER MTN	STATE CALIF.	COUNTY SAN BERNARDINO	TWP	RANGE	PPM
				PARTY MANAGER L. DAVIS		

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS
												LAT.	DEP.	Y	X			
K1	T ROAD	WEST	ELEVATION 3194.0		scale	Y-700,775 X-2,121,955				3194.0	K1					700,775	2,121,955	TRD WEST EL. 3194.0
BS	599		352° 08' 41" - 180	+149	+2.3	89° -	-10.5	-8.2	3185.8		BS	-594 ₊₉	-73 ₋₃					
BS	599				+4.0	88° 50'	-12.2	-8.2			BS							
268	330		352° 23'	+149	5.3	88° 30'	+8.8	+3.3		3189.1		+327	+42	7,00,517	2,121,921			
269	0				5.4	-		-5.4		3180.4	T	0	0	700,190	2,121,879			
270	330		174° 30'	+149	5.5	91° -	-5.8	-11.3		3174.5		-326	-54	699,864	2,121,825			
271	660		174° 29' 32"	+149	3.5	91° -	-11.5	-15.0		3170.8	TP	-651 ₊₉	-108 ₋₃	699,548	2,121,768			
271	660		" "	" "	5.4	90° 50'	-9.6	-15.0			TP							
BS	2970		354° 53' 20" - 180	" "	+11.3	88° 40'	-69.1	-57.8	3113.0		BS	-2926 ₊₉	-505 ₋₃					
BS	2970				+6.1	88° 46'	-63.9	-57.8			BS							
272	2640		354° 53'	" "	2.7	88° 50'	+53.8	+51.1		3164.1		+2602	+449	699,233	2,121,709			
273	2310		" "	+149	8.0	88° 40'	+53.7	+45.7		3158.7		+2276	+393	698,907	2,121,653			
274	1980		" "	" "	5.75	88° 40'	+46.1	+38.6		3151.6		+1951	+336	698,582	2,121,596			
275	1650		" "	" "	8.8	88° 40'	+38.4	+29.6		3142.6		+1626	+280	698,257	2,121,540			
276	1320		" "	+149	10.4	88° 40'	+30.7	+20.3		3133.3		+1301	+224	697,932	2,121,484			
277	990		354° 53'	" "	11.5	88° 40'	+23.0	+11.5		3124.5		+976	+168	697,607	2,121,428			
278	660		" "	" "	12.0	88° 40'	+15.4	+3.4		3116.4		+650	+112	697,281	2,121,372			
279	330		" "	" "	8.1	88° 40'	+7.7	-0.4		3112.6		+325	+56	696,956	2,121,316			
280	0				5.4	-		-5.4		3107.6	T	0	0	696,631	2,121,260			

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE 2-10-82	INSTRUMENT MAN B. COCCAMP	ROD MAN M. KNAPP	PARTY NUMBER 6834	NOTES CHECKED BY MKC Jm	LINE NO. 3	PAGE 20
AREA CALIFORNIA	TOPO MAP KLINKER MTN.	STATE CALIF.	COUNTY SAN BERNARDINO	RANGE	PPM	PARTY MANAGER L. DAVIS

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									318.0					
281	330		174° 43'	+14.9	9.1	-	-9.1			3103.9		-325	-55	696,306 2,121,205
282	666		" "	" "	11.3	-	-11.3			3101.7		-651	-110	695,980 2,121,150
283	990		" "	" "	12.4	-	-12.4			3100.6		-976	-165	695,655 2,121,095
284	1320		" "	" "	8.7	-	-8.7			3104.3		-1301	-221	695,330 2,121,039
#1	1631		174° 21' 05"	" "	6.0	-	-6.0			3107.0	#1	-1610	-262	695,021 2,120,998 TRD EAST X - 2,120,010
285	1656		174° 43'	+14.9	6.0	-	-6.0			3107.0		-1627	-276	695,004 2,120,984
286	1980		" "	" "	13.0	TH	+9.9	-3.1		3109.9		-1952	-331	694,679 2,120,929
287	2310		" "	" "	11.1	TH	+11.6	+0.5		3113.5		-2278	-386	694,353 2,120,874
288	2640		" "	" "	11.8	TH	+13.2	+1.4		3114.4		-2603	-441	694,028 2,120,819
289	2969		" "	" "	12.1	TH	+14.8	+2.7		3115.7		-2927	-496	693,704 2,120,764
IF	2997		174° 29' 24"	+14.9	11.6	TH	+15.0	+3.4		3116.4	TP	-2960	-468	693,680 2,120,790
IF	2997				14.1	89° 40'	+17.4	+3.3			TP			T-RD WEST EL 3117 HORIZ Y +136, CORR. X -11
BS	2617		355° 28' 30" - 180°	+14.5	+3.5	91° 30'	+68.5	+72.0			BS	-2577	-453.3	E.D.M
BS	2617				+11.2	91° 20'	+60.9	+72.1	3188.5		BS			E.D.M
289	2640		355° 09'	+14.5	11.1	91° 20'	-61.4	-72.5		3116.0		+2603	+443	693,704 2,120,777
290	2310		" "	" "	12.0	91° 20'	-53.7	-65.7		3122.8		+2277	+387	693,378 2,120,721
291	1980		" "	" "	12.4	91° 20'	-46.1	-58.5		3130.0		+1952	+332	693,053 2,120,666
292	1650		" "	" "	11.8	91° 20'	-38.4	-50.2		3138.3		+1627	+277	692,728 2,120,611
293	1320		" "	" "	10.3	91° 20'	-30.7	-41.0		3147.5		+1301	+221	692,402 2,120,555
294	990		" "	" "	9.5	91° 20'	-23.0	-32.5		3156.0		+976	+166	692,077 2,120,500

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
2-10-82		B. Cotcamp		M. Knopp		6834		MPK <i>Jm</i>		3		21			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
CALIF.		KLINKER MTD.		CALIF.		SAN BERNARDINO								L. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									3188.5						
295	660		355° 09'	+14.5	9.1	91° 20'	-15.4	-24.5		3164.0		+651	+111	691,752	2,120,445
296	330		" "	" "	6.5	91° 20'	-7.7	-14.2		3174.3		+325	+55	691,426	2,120,389
297	0				5.4	-		-5.4		3183.1	TP	0	0	691,101	2,120,334
298	330		174° 59'	+14.5	6.5	88° -	+11.5	+5.0		3193.5		-325	-54	690,776	2,120,280
299	660		" "	" "	7.5	88° -	+23.0	+15.5		3204.0		-651	-109	690,450	2,120,225
300	990		" "	" "	8.0	88° -	+34.5	+26.5		3215.0		-976	-163	690,125	2,120,171
301	1320		" "	" "	8.2	88° -	+46.0	+37.8		3226.3		-1302	-217	689,799	2,120,117
302	1650		174° 59'	" "	8.7	88° -	+57.6	+48.9		3237.4		-1627	-272	689,474	2,120,062
303	1980		" "	+14.5	9.1	88° -	+69.1	+60.0		3248.5		-1953	-326	689,148	2,120,008
304	2310		" "	" "	7.0	88° -	+80.6	+73.6		3262.1		-2278	-381	688,823	2,119,953
305	2640		" "	" "	3.8	88° -	+92.1	+88.3		3276.8		-2604	-435	688,497	2,119,899
306	2974		174° 59' 04"	+14.2	1.3	88° -	+103.7	+102.42			TP	-2934 ₂	-474 ₃	688,165	2,119,857
306	2974				9.9	87° 50'	+112.4	+102.5		3291.0	TP				E.D.M.
	1655		28° 59' 15" +180°	+14.2	9.4	91° 36'	+46.2	+55.62	3346.6		BS	-1206 ₂	-1132 ₃		
	1655				+12.3	91° 30'	+43.3	+55.6			BS				
307	1320		31° 09'	+14.2	9.0	91° 40'	-38.4	-47.4		3299.2		+928	+939	687,885	2,119,661
308	990		" "	" "	8.9	91° 40'	-28.8	-37.7		3308.9		+696	+704	687,653	2,119,476
309	660		" "	" "	6.1	91° 40'	-19.2	-25.3		3321.3		+464	+470	687,421	2,119,192
310	330		" "	" "	3.7	91° 40'	-9.6	-13.3		3333.3		+232	+235	687,189	2,118,957
311	0				5.4	-	5.4	-5.4		3341.2	TP	0	0	686,957	2,118,722

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 2-10-82	INSTRUMENT MAN B. COLEMAN	ROD MAN M. KOWAP	PARTY NUMBER 6834	NOTES CHECKED BY MPE Jm	LINE NO. 3	PAGE 22
AREA CALIFORNIA	TOPO MAP KLINKER MTN.	STATE CALIF.	COUNTY SAN BERNARDINO	RANGE	PPM	PARTY MANAGER L. DAVIS

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS	
												LAT.	DEP.	Y	X				
									3346.6										
312	330		211° 02'		7.1	88° 40'	+7.7	+0.6		3347.2		-232	-234	686,725	2,118,488				
313	660		" "		11.3	88° 40'	+15.4	+4.1		3350.7		-465	-469	686,492	2,118,253				
314	990		" "		12.5	88° 40'	+23.0	+10.5		3357.1		-697	-703	686,260	2,118,019				
315	1320		" "		8.9	89° -	+23.0	+14.1		3360.7		-930	-937	686,027	2,117,785				
316	1650		211° 01' 31"		9.5	89° -	+28.8	+19.3	3424.6	3365.9	TP	-1160 ₋₂	-1173 ₋₃	685,795	2,117,546				
316	1650		" "		4.7	89° 10'	+24.0	+19.3		TP									
	2639		31° 11' 07" +180°		+12.6	91° -	+46.1	+58.7		BS			-1850 ₋₂	-1882 ₋₃					EDM.
	2639		" "		+4.9	91° 10'	+53.7	+58.6	BS										
317	2310		31° 11'		4.9	91° 10'	-47.0	-51.9		3372.7		+1620	+1647	685,563	2,117,308				
318	1980		" "		13.0	91° -	-34.6	-47.6		3377.0		+1388	+1412	685,331	2,117,073				
14	1930		31° 33' 52"		13.1	91° -	-33.7	-46.8		3377.8	14								
319	1650		31° 11'		11.1	91° -	-28.8	-39.9		3384.7		+1157	+1177	685,100	2,116,838				
320	1320		" "		7.8	91° -	-23.0	-30.8		3393.8		+925	+941	684,868	2,116,602				
321	990		" "		7.4	91° -	-17.3	-24.7		3399.9		+694	+706	684,637	2,116,367			+684,505 X -2,116,170	
BM	699		30° 04' 09"		5.5	91° -	-12.2	-17.7		3406.9	BM	+500	+489	684,443	2,116,150			BEZEL MARK EL. 3407.0	
322	660		31° 11'		7.2	91° -	-11.5	-18.7		3405.9		+463	+471	684,406	2,116,132				
323	330		" "		6.8	91° -	-5.8	-12.6		3412.0		+231	+235	684,174	2,115,896				
324	0		" "		5.4	-		-5.4		3419.2	T	0	0	683,943	2,115,661				
325	330		211° 03'		7.1	88° 20'	+9.6	+2.5		3427.1		-232	-235	683,711	2,115,426				
326	660		" "		9.3	88° 20'	+19.2	+9.9		3434.5		-464	-470	683,479	2,115,191				

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 2-10-82	INSTRUMENT MAN B. Cotcamp	ROD MAN M. Knapp	PARTY NUMBER 6834	NOTES CHECKED BY MPK	LINE NO. 3	PAGE 23
AREA CALIF.	TOPO MAP KLINKER MTN & RED MTS.	STATE CALIF.	COUNTY SAN BERNARDINO	TWP	RANGE	PPM
				PARTY MANAGER L. DAVIS		

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									3424.6					
327	990		211° 03'	+14.3	12.6	88° 20'	+28.8	+16.2		3440.8		-696	-704	683,247 2,114,957
328	1320		" "	" "	9.4	88° 40'	+30.7	+21.3		3445.9		-928	-939	683,015 2,114,722
329	1650		" "	" "	10.0	88° 40'	+38.4	+28.4		3453.0		-1160	-1174	682,783 2,114,487
330	1980		" "	" "	12.1	88° 40'	+46.1	+34.0		3458.6		-1391	-1409	682,552 2,114,252
331	2309		" "	+14.3	7.2	88° 50'	+47.0	+39.8		3464.4		-1623	-1643	682,320 2,114,018 E.O.M. Red Mtn.
332	2628		209° 11' 39"	+14.5	14.3	88° 40'	+61.1	+46.8		3471.4	TP	-1900 ₂	-1815 ₃	682,041 2,113,843 E.O.M. Around COENCR
332	2628				12.8	88° 42'	+59.6	+46.8			TP			
	1317		349° 42' 23" - 180	+14.5	+13.5	91° 10'	+26.8	+40.3			BS	-1313 ₂	-97 ₃	6
	1317				+5.9	91° 30'	+34.5	+40.4	3511.8		BS			
333	990		346° 44'	+14.5	7.9	91° 30'	-25.9	-33.8		3478.0		+990	+21	681,716 2,113,764
334	660		" "	" "	6.9	91° 30'	-17.3	-24.2		3487.6		+660	+14	681,386 2,113,757
335	330		" "	" "	4.0	91° 30'	-8.6	-12.6		3499.2		+330	+7	681,056 2,113,750
336	0				5.4	-	-	-5.4		3506.4	TP	0	0	680,726 2,113,743
337	330		166° 28'	+14.5	8.7	88° -	+11.5	+2.8		3514.6		-330	-6	680,396 2,113,737
338	660		" "	" "	9.3	88° -	+23.0	+13.7		3525.5		-660	-11	680,066 2,113,732
339	990		" "	" "	7.9	88° -	+34.5	+26.6		3538.4		-990	-17	679,736 2,113,726
TP	1210		165° 49' 46"	" "	6.2	88° -	+42.2	+36.0		3547.8	TP	-1209	-7	679,517 2,113,736 X=2,113,705 Y=679,515
TP	1110		168° 16' 50"	+14.5	4.7	88° -	+38.7	+34.0		3545.8	Bm	-1108 ₃	-54 ₄	679,615 2,113,685 BENCH MARK BL 3546 Y=679,615 Hoenz Y=17 X=2,113,685 CORR. X=25
TP	1110				7.9	87° 50'	+41.9	+34.0			Bm			

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445.

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
2-18-82		B. Cotcamp		M. Knapp		6834		MK Jm		3	25			
AREA		TOPO MAP	STATE	COUNTY	TWP	RANGE	PPM	PARTY MANAGER						
CALIF.		REO MTD.	CALIF.	SAN BERNARDINO				L. Davis						
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
										3604.8				
BS	990		11° 16' 25" +180	+14.5	+9.6	89°	-17.3	-7.7	3597.1		BS	-891	-430 ₊₂	
BS	990		"	"	+3.8	89° 20'	-11.5	-7.7			BS			
352	660		10° 13'	"	5.9	89° 16'	+9.6	+3.7		3600.8		+600	+276	695,814 2,114,468
353	330		" "	"	6.7	89° 10'	+4.8	-1.9		3596.2		+300	+138	675,514 2,114,330
354	0		" "	"	5.4	-		-5.4		3591.7	T	0	0	675,214 2,114,192
IF	155		182° 57' 22"	+14.5°	6.5	89° 30'	-1.4	-7.9		3589.2	IF	-148	-46	675,066 2,114,146 Y=675,015 X=2,124,110 T=RD WEST
355	330		187° 15'	"	6.8	91° 10'	-6.7	-13.5		3583.6		-307	-122	674,907 2,114,070
356	660		185° 13'	"	10.8	91° 10'	-13.4	-24.2		3572.9		-621	-223	674,593 2,113,969
357	989		183° 09' 37"	"	10.1	91° 10'	-20.1	-30.2		3566.9	TP	-942 ₊₁	-300 ₊₂	674,273 2,113,894
357	989		"	"	7.2	91° 20'	-23.0	-30.2			TP			
	989		356° 50' 26" -180	+14.5°	+4.8	88° 50'	-20.1	-15.3	3551.6		BS	-969 ₊₁	-194 ₊₂	
	989		"	"	+7.7	88° 40'	-23.0	-15.3			BS			
358	660		355° 41'	+14.5°	5.3	88° 50'	+13.4	+8.1		3559.7		+650	+117	673,955 2,113,819
359	330		354° 17'	"	5.0	88° 50'	+6.7	+1.7		3553.3		+326	+50	673,631 2,113,752
360	0		"	"	5.4	-		-5.4		3546.2	T	0	0	673,305 2,113,702 N. Russ STA.
361	330		188° 41'	"	10.1	90° 30'	-2.9	-13.0		3538.6		-303	-130	673,052 2,113,572
362	660		187° 06'	"	11.0	90° 30'	-5.8	-16.8		3534.8		-614	-243	672,691 2,113,459
IF	865		185° 12' 57"	+14.5°	12.4	90° 30'	-7.6	-20.0		3531.6	TP	-814 ₊₁	-292 ₊₂	672,492 2,113,412 Y=672,425 X=2,113,395 T=RD WEST
IF	865		"	"	9.9	90° 40'	-10.1	-20.0			TP			

SURVEY NOTES-HIGH RESOLUTION DATA

QEO-4455

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
2-18-82		B. Cotcamp		M. Knapp		6834		MPK		3		26			
AREA		T.O.P. MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
CALIFORNIA		RED MOUNTAIN JOHANNESBURG		CALIF.		SAN BERNARDINO / KERN								L. PAVIS	
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
										3531.6					
BS	2462		56° 29' 58" +180	+14.8°	+12.8	92° 10'	+93.0	+105.8			BS	-789 ₊₁	-2330 ₊₂		E.O.M
BS	2462				+8.6	92° 16'	+97.3	+105.9	3637.5		BS				
363	2310		56° 01'	+14.8°	10.0	92° 20'	-94.0	-104.0		3533.5		+759	+2182	672,463	2,113,266 E.O.M.
364	1980		" "	"	8.8	92° 30'	-86.3	-95.1		3542.4		+651	+1870	672,355	2,112,954
365	1650		" "	"	10.2	92° 40'	-76.7	-86.9		3550.6		+542	+1558	672,246	2,112,642
366	1370		56° 01'	"	10.1	92° 40'	-61.3	-71.4		3566.1		+434	+1247	672,138	2,112,331
367	990		" "	"	10.0	92° 40'	-46.0	-56.0		3581.5		+325	+935	672,029	2,112,019
368	660		" "	"	7.3	92° 40'	-30.7	-38.0		3599.5		+217	+623	671,921	2,111,707 RED MOUNTAIN
369	330		" "	"	4.1	92° 40'	-15.3	-19.4		3618.1		+108	+312	671,802	2,111,396 JOHANNESBURG
370	0				5.4	-	-	-5.4		3632.1	TP	0	0	671,704	2,111,084
371	330		235° 21'	+14.8°	7.2	89° 40'	+1.9	-5.3		3632.2		-112	-310	671,592	2,110,774
372	660		" "	"	8.3	88° 40'	+15.4	+7.1		3644.6		-224	-621	671,480	2,110,463
TP	698		234° 01' 17"	"	7.0	88° 40'	+16.2	+9.2		3646.7	TP	-252	-651	671,452	2,110,433 <i>y=671,465 x=2,116,400 4 way int.</i>
373	986		231° 55'	"	4.9	88° 06'	+32.7	+27.8		3665.3		-390	-906	671,314	2,110,178 E.O.M
TP	1604		227° 02' 47"	"	4.6	87° 50'	+41.7	+37.1		3674.6	TP	-521 ₊₁	-973 ₊₂	671,184	2,110,113 E.O.M
TP	1104				7.8	87° 40'	+44.9	+37.1			TP				
BS	411		60° 58' 58" +180	+14.8°	+5.1	93° 0'	+21.5	+26.6	3701.2		BS	-395 ₊₁	-112 ₊₁		
BS	411				+12.3	92° -	+14.3	+26.6			BS				
374	226		355° 41'	+14.8°	7.1	91° 30'	-5.9	-13.0		3688.2		+222	+41.	671,012	2,110,043

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-4493

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
2-18-82		B. Cotcamp		M. Knapp		6834		MPK Jm		3	27			
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER			
CALIF.		JOHANNESBURG		CALIF.		KERN					L. Davis			
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS
												NORTH+ SOUTH-	EAST+ WEST-	
									3701.2					
π	0				5.4	-		-5.4		3695.8	π	0	0	670,790 2,110,002
375	100		155° 28'	+14.8°	5.2	91° 30'	-2.6	-7.8		3693.4		-99	+17	670,691 2,110,019
376	430		156° 40'	"	8.8	91° 20'	-10.0	-18.8		3682.4		-425	+64	670,365 2,110,066
377	761		157° 20' 22"	"	1.1	92° 10'	-28.8	-29.9		3671.3	TP	-753 ₊	+104 ₊	670,038 2,110,107 ACROSS STA.
377	761				7.8	91° 40'	-22.1	-29.9			TP			
	641		352° 56' 25" -180°	+14.8°	+3.7	88° 20'	-18.6	-14.9	3656.4		BS	-635 ₊	-86 ₊	ACROSS CORN.
	641			"	+5.6	88° 10'	-20.5	-14.9			BS			
378	330		343° 54'	"	6.7	87° 30'	+14.4	+7.7		3664.1		+330	-7	669,734 2,110,015
378	209		351° 35' 52"	"	5.8	87° 30'	+9.1	+3.3		3659.7	π	+208	+23	669,612 2,110,045
379	0				5.4	-		-5.4		3651.0	π	0	0	669,404 2,110,022
380	330		178° 31'	+14.8°	7.9	91° 20'	-7.7	-15.6		3640.8		-321	-76	669,083 2,109,946
381	662		177° 38' 16"	"	9.4	91° 20'	-15.4	-24.8		3631.6	TP	-646 ₊	-143 ₊	668,759 2,109,880
381	662				7.5	91° 30'	-17.3	-24.8			TP			
	778		02° 55' 18" +180°	+14.8°	+3.5	89° -	-13.6	-10.1	3621.5		BS	-741 ₊	-237 ₊	
	778				+7.9	88° 40'	-18.1	-10.2			BS			
382	448		02° 56'	+14.8°	9.8	88° 50'	+9.1	-0.7		3620.8		+427	+136	668,446 2,109,780
383	119		359° 43'	"	8.1	-		-8.1		3613.4		+115	+30	668,134 2,109,674
π	0				5.4	-		-5.4		3616.1	π	0	0	668,019 2,109,644
384	218		208° 47'	+14.8°	6.7	-		-6.7		3614.8		-158	-150	667,861 2,109,494

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-443

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE		
2-18-82		B. COLEMAN		M. KWAPP		0034		MPK Jm		3		28		
AREA		TOPO MAP		STATE		COUNTY		RANGE		PPM		PARTY MANAGER		
CALIFORNIA		JOHANNESBURG		CALIF.		SAN KERN						L. DAVIS		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									3621.5					
385	548		208° 13'	+14.8°	11.1	-		-11.1		3610.4		-401	-374	667,618 2,109,270
TP	773		206° 31' 59"	"	9.1	-		-9.1		3612.4	TP	-580	-511	667,440 2,109,134
TP	773				5.2	BH	-3.9	-9.1			TP			
BS	600		350° 48' 08" -180	+14.8°	+9.9	88° -	-20.9	-11.0	3601.4		BS	-597	59	
BS	600				+4.7	88° 30'	-15.7	-11.0			BS			
386	510		346° 58'	+14.8°	11.8	88° 10'	+16.3	+4.5		3665.9		+510	+16	667,354 2,109,092
387	180		353° 44'	"	9.4	88° -	+6.3	-3.1		3598.3		+178	+27	667,022 2,109,103
π	0				5.4	-		-5.4		3596.0	π	0	0	666,844 2,109,076
388	150		197° 45'	+14.8°	5.4	91° 30'	-3.9	-9.3		3592.1		-126	-81	666,718 2,108,995
389	480		195° 09'	"	6.8	90° 40'	-5.6	-12.4		3589.0		-416	-240	666,478 2,108,836
390	809		195° 09' 08"	"	10.9	90° 40'	-9.4	-20.3		3581.1	TP	-701	-404	666,144 2,108,673
390	809				6.2	91° -	-14.1	-20.3			TP			
BS	498		23° 37' 48" +180	+14.8°	+4.8	TH	-2.5	+2.3			BS	-390	-310	
BS	498				+6.7	89° 30'	-4.3	+2.4	3583.5		BS			
IF	565		24° 12' 13"	+14.8°	13.1	89° -	+9.9	-3.2		3580.3		+439	+356	666,794 2,108,720 Y=666,230 X=2,108,735 7-RO NW
391	170		31° 50'	"	7.9	89° -	-3.0	-10.9		3572.6		+117	+124	665,872 2,108,488
π	0				5.4	-		-5.4		3578.1	π	0	0	665,755 2,108,304
392	160		218° 07'	+14.8°	6.9	89° -	+2.8	-4.1		3579.4		-96	-128	665,659 2,108,236
393	490		218° 07'	"	6.4	-		-6.4		3577.1	TP	-295	-391	665,461 2,107,974
393	490				4.0	BH	-2.5	-6.5			TP			

SURVEY NOTES - HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE						
2-18-82		B. COCCANI		M. KWAPP		6834		MPK Jm		3		29						
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER				
CALIFORNIA		JOHANNESBURG		CALIF.		KERN								L. DAVIS				
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS
												LAT.	DEP.	Y	X			
										3577.1								
BS	1648		37° 48' 22" +180°	+14.8°	+11.1	-		+11.1	3588.2		BS	-1001	-1309					E.O.M.
BS	1648				+13.9	89° 54'	-2.9	+11.0			BS							
394	1320		37° 48'	+14.8°	9.2	-		-9.2		3579.0		+802	+1049	665,262	2,107,714			
395	990		" "	"	8.0	-		-8.0		3580.2		+601	+786	665,061	2,107,451			
396	660		" "	"	5.7	-		-5.7		3582.5		+401	+524	664,861	2,107,189			
397	330		" "	"	6.5	-		-6.5		3581.7		+200	+262	664,660	2,106,927			
398	0				5.4	-		-5.4		3582.8	X	0	0	664,460	2,106,666			
14	9		139° 47' 10"	+14.8°	5.4	-		-5.4		3582.8	14	-8	+4	664,452	2,106,669			
399	330		217° 44'	"	7.9	-		-7.9		3580.3		-201	-262	664,259	2,106,403			
400	660		" "	"	5.3	-		-5.3		3582.9		-401	-524	664,059	2,106,141			
401	990		" "	"	6.8	-		-6.8		3581.4		-602	-786	663,858	2,105,879			
402	1320		" "	"	8.7	TH	+6.6	-2.1		3586.1		-803	-1048	663,657	2,105,617			
403	1650		" "	"	5.2	-		-5.2		3583.0		-1004	-1310	663,456	2,105,355			E.P.M.
17	1978		217° 29' 22"	+14.8°	5.3	-		-5.3			TP	-1210	-1565	663,250	2,105,100			E.P.M.
17	1978				10.9	89° 50'	+5.8	-5.1		3583.1	TP							CORR. Y = +15' X = +30'
	3960		38° 04' 06" +180°	+14.5°	+3.9	89° 54'	-6.9	-3.0			BS	-2407	-3145					Y = 663,250 X = 2,105,100
	3960				+8.6	89° 50'	-11.5	-2.9	3580.2		BS							
404	3957		37° 56'	+14.5°	9.0	89° 50'	+11.5	+2.5		3582.7		+2413	+3136	663,259	2,105,087			
405	3630		" "	"	9.1	89° 50'	+10.6	+1.5		3581.7		+2214	+2877	663,060	2,104,828			
406	3300		" "	"	9.3	89° 50'	+9.6	+0.3		3580.5		+2013	+2615	662,859	2,104,566			

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE 2-19-82	INSTRUMENT MAN B. COCCAMP	ROD MAN M. KNAPP	PARTY NUMBER 6834	NOTES CHECKED BY MPC Jhr	LINE NO. 3	PAGE 30
AREA CALIFORNIA	TOPO MAP JOHANNESBURG	STATE CALIF.	COUNTY KERN	TWP	RANGE	PPM
				PARTY MANAGER L. DAVIS		

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									3580.2					
407	2970		37° 55'	+14.5°	11.0	89° 50'	+8.6	-2.4		3577.8		+1811	+2354	662,657 2,104,305
408	2640		" "	" "	6.7	-		-6.7		3573.5		+1610	+2092	662,456 2,104,043
409	2310		" "	" "	4.0	-		-4.0		3576.2		+1409	+1831	662,255 2,103,782
410	1980		" "	" "	5.0	-		-5.0		3575.2		+1208	+1569	662,054 2,103,520
411	1650		37° 55'	+14.5°	5.3	-		-5.3		3574.9		+1006	+1308	661,852 2,103,259
412	1320		" "	" "	5.3	-		-5.3		3574.9		+805	+1046	661,651 2,102,997
413	990		" "	" "	9.8	-		-9.8		3570.4		+604	+785	661,450 2,102,736
414	660		" "	" "	7.8	-		-7.8		3572.4		+403	+523	661,249 2,102,474
415	330		" "	" "	5.0	-		-5.0		3575.2		+201	+262	661,047 2,102,213
416	0				5.4	-		-5.4		3574.8	π	0	0	660,846 2,101,951
417	330		217° 55'	+14.5°	11.0	-		-11.0		3569.2		+201	-262	660,645 2,101,689
418	660		" "	" "	8.1	91° -	-11.5	-19.6		3560.6		-403	-523	660,443 2,101,428
419	990		" "	" "	8.3	91° -	-17.3	-25.6		3554.6		-604	-785	660,242 2,101,166
420	1320		" "	" "	6.6	91° -	-23.0	-29.6		3550.6		-805	-1046	660,041 2,100,905
421	1650		" "	" "	8.8	91° -	-28.8	-37.6		3542.6		-1006	-1308	659,840 2,100,643
422	1980		217° 55'	+14.5°	9.0	91° -	-34.6	-43.6		3536.6		-1208	-1569	659,638 2,100,382
423	2310		" "	" "	14.0	90° 40'	-26.9	-40.9		3534.3		-1409	-1831	659,437 2,100,120
424	2640		" "	" "	8.9	90° 40'	-30.7	-39.6		3540.6		-1610	-2092	659,236 2,099,859
425	2970		" "	" "	2.0	90° 40'	-34.5	-36.5		3543.7		-1811	-2354	659,035 2,099,597
426	3300		" "	" "	10.2	90° 30'	-28.8	-39.0		3541.2		-2013	-2615	658,833 2,099,336

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
2-19-82		B. Cotcamp		M. Knapp		6834		MPK Jm		3		31			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
CALIFORNIA		JOHANNESBURG		CALIF.		KERN								L. DAVIS	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									3580.2						
427	3630		217° 55'	+14.5	9.0	90° 30'	-31.7	-40.7		3539.5		-2214	-2877	658,632	2,099,074
428	3960		" "	" "	6.7	90° 30'	-34.6	-41.3		3538.9		-2415	-3138	658,431	2,098,813
429	4288		217° 54' 40"	" "	9.2	90° 30'	-37.4	-46.6		3533.6	TP	-2616 ₊₃	-3398 ₋₄	658,233	2,098,549 E.D.M.
429	4288				14.2	90° 26'	-32.4	-46.6			TP				
	5277		41° 34' +180	+14.5	19.6	89° 50'	-15.4	-5.8			BS	-2946 ₊₃	-4378 ₋₄		E.P.M.
	5277				+3.6	89° 54'	-9.2	-5.6	3528.0		BS				
430	4950		41° 34'	+14.5	6.1	-	-	-6.1		3521.9		+2763	+4107	658,053	2,098,274
	4825		41° 40' 49"	" "	11.2	-	-	-11.2		3516.8					
431	4620		41° 34'	" "	14.0	-	-	-14.0		3514.0		+2579	+3833	657,869	2,098,000
432	4290		" "	" "	8.3	90° 08'	-10.0	-18.3		3509.7		+2395	+3559	657,685	2,097,726
433	3960		" "	" "	13.2	90° 08'	-9.2	-22.4		3505.6		+2211	+3286	657,501	2,097,453
434	3630		" "	" "	17.6	90° 08'	-8.5	-26.1		3501.9		+2026	+3012	657,316	2,097,179
435	3300		" "	+14.5	17.9	90° 08'	-7.7	-25.6		3502.4		+1842	+2738	657,132	2,096,905
436	2970		41° 34'	" "	18.1	90° 08'	-6.9	-25.0		3503.0		+1658	+2464	656,948	2,096,631
437	2640		" "	" "	13.5	90° 08'	-6.2	-19.7		3508.3		+1474	+2190	656,764	2,096,357
438	2310		" "	" "	10.2	90° 08'	-5.4	-15.6		3512.4		+1296	+1917	656,580	2,096,081
14	2238		41° 46' 49"	" "	14.7	-	-	-14.7		3513.3	14	+1242	+1861	656,532	2,096,028 y=656,490 x=2,096,000 TED NORTH EL 3513.
439	1980		41° 34'	+14.5	11.3	-	-	-11.3		3516.7		+1105	+1643	656,395	2,095,810
440	1650		" "	" "	5.9	-	-	-5.9		3522.1		+921	+1369	656,211	2,095,530
441	1320		" "	" "	6.3	-	-	-6.3		3521.7		+737	+1095	656,027	2,095,262

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE							
2-19-82		B. Cotcamp		M. Knapp		6834		MPK Jm		3	32							
AREA		TOPO MAP	STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER									
CALIFORNIA		JOHANNESBURG	CALIF.	KERN					L. DAVIS									
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS
												LAT.	DEP.	Y	X			
									3528.0									
442	990		41° 34'	+14.5°	8.5	TH	+5.0	-3.5		3524.5		+553	+821	655,843	2,094,988			
443	660		" "	" "	5.9	-		-5.9		3522.1		+368	+548	655,658	2,094,715			
444	330		" "	" "	5.0	-		-5.0		3523.0		+184	+274	655,474	2,094,441			
445	0				5.4	-		-5.4		3522.6	λ	0	0	655,290	2,094,167			
446	330		219° 55'	+14.5°	3.6	-		-3.6		3524.4		-192	-268	655,098	2,093,899			
447	660		" "	" "	3.9	-		-3.9		3524.1		-384	-537	654,906	2,093,630			
448	990		" "	" "	4.9	TH	+5.0	+0.1		3528.1		-576	-805	654,714	2,093,362			
449	1320		" "	" "	4.9	TH	+6.6	+1.7		3529.7		-768	-1074	654,522	2,093,093			
450	1650		" "	" "	4.3	TH	+8.3	+4.0		3532.0		-960	-1342	654,330	2,092,825			
451	1980		" "	" "	7.9	89° 30'	+17.3	+9.4		3537.4		-1152	-1610	654,138	2,092,557			
452	2310		219° 33'	+14.5°	11.3	89° 30'	+20.2	+8.9		3536.9		-1356	-1870	653,934	2,092,297			
453	2640		" "	" "	9.9	89° 36'	+18.4	+8.5		3536.5		-1550	-2137	653,740	2,092,030			
454	2970		" "	" "	11.6	89° 36'	+20.9	+9.3		3537.3		-1744	-2404	653,546	2,091,763			
455	3300		" "	" "	12.9	89° 36'	+23.3	+10.4		3544.4		-1937	-2671	653,353	2,091,496			
456	3630		" "	" "	14.4	89° 30'	+31.9	+17.5		3545.5		-2131	-2939	653,159	2,091,228			
457	3960		219° 33'	" "	8.3	89° 30'	+34.9	+26.6		3554.6		-2325	-3206	652,965	2,090,961			
458	4290		" "	+14.5°	9.0	89° 30'	+37.8	+28.8		3556.8		-2519	-3473	652,771	2,090,694			
459	4620		" "	" "	8.9	89° 30'	+40.8	+31.9		3559.9		-2712	-3740	652,578	2,090,427			
460	4950		" "	" "	16.3	89° 30'	+43.7	+33.4		3561.4		-2906	-4007	652,384	2,090,160			

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
2-19-82		B. Cotcamp		M. Knapp		6834		MPK Jm		3	33					
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER					
CALIFORNIA		JOHANNESBURG		CALIF.		Kern					L. DAVIS					
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH +	EAST +	COORDINATES		REMARKS	
											SOUTH -	WEST -	Y	X		
								3528.0								
461	5279		29° 32' 54"	+14.2	9.9	89° 34'	+40.5	+30.6								
461	5279				13.4	89° 32'	+43.6	+30.2	+30.4	3558.4	TP	-3122 ₁₃	-4257 ₄	652,171	2,089,906	E.O.M
	3627		38° 57' 54" +180°	+14.2	8.9	90° 40'	+41.9	+50.8			BS	-2174 ₁₃	-2903 ₄			E.O.M
	3627				+13.2	90° 36'	+37.7	+50.9	3609.3		BS					
462	3300		38° 58'	+14.2	5.7	90° 50'	-47.8	-53.5		3555.8		+1978	+2641	651,978	2,089,640	
463	2970		" "	" "	10.4	90° 50'	-43.0	-53.4		3555.9		+1780	+2377	651,780	2,089,376	
464	2824		39° 13' 26"	" "	10.4	90° 50'	-40.9	-51.3		3558.0	IF	+1683	+2268	651,683	2,089,267	y=651,655 x=2,089,270
464	2640		38° 58'	" "	9.1	90° 50'	-38.4	-47.5		3561.8		+1583	+2113	651,583	2,089,112	ROAD NORTH
465	2310		" "	" "	8.2	90° 50'	-33.6	-41.8		3567.5		+1385	+1849	651,385	2,088,848	
466	261980		" "	+14.2	8.8	90° 50'	-28.8	-37.6		3571.7		+1187	+1585	651,187	2,088,584	
	1776		39° 16' 56"	" "	8.3	90° 50'	-25.8	-34.1		3575.2						
467	1650		38° 58'	" "	8.1	90° 50'	-24.0	-32.1		3577.2		+989	+1321	650,989	2,088,320	
468	1326		" "	" "	7.3	90° 50'	-19.2	-26.5		3582.8		+791	+1057	650,791	2,088,056	
469	990		" "	" "	10.4	90° 30'	-8.6	-19.0		3590.3		+593	+792	650,593	2,087,791	
470	660		" "	" "	7.7	90° 30'	-5.8	-13.5		3595.8		+396	+528	650,396	2,087,527	
471	330		" "	" "	7.3	-	-	-7.3		3602.0		+198	+264	650,198	2,087,263	
472	0				5.4	-	-	-5.4		3603.9	X	0	0	650,000	2,086,999	
473	330		219° 02'	+14.2	6.3	-	-	-6.3		3603.0		-198	-264	649,802	2,086,735	
474	660		" "	" "	7.3	-	-	-7.3		3602.0		-395	-529	649,605	2,086,470	
475	990		" "	" "	11.8	-	-	-11.8		3597.5		-593	-793	649,407	2,086,204	

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
22-19-82		B. Cotcamp		M. Knapp		6834		MPK DJA		3	34						
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER						
CALIF.		JOHANNESBURG-7 1/2		CALIF.		Keen					L. DAVIS						
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH +	EAST +	COORDINATES		REMARKS	
												SOUTH -	WEST -	Y	X		
									3609.3								
476	1320		219° 02'	+14.2	12.9	DN	-6.6	-19.5		3589.8		-790	-1057	649,210	2,085,942		
477	1650		219° 01' 56"	+14.4	12.0	90° 36'	-17.3	-29.3	-29.3	3580.2	TP	-983 ₊₃	-1325 ₋₄	649,020	2,085,670	E.A.M.	
477	1650				14.6	90° 30'	-14.4	-29.0			TP						
	1319		39° 00' 46" +180°	+14.4	+2.0	89° -	-23.0	-21.0	3559.2		BS	-786 ₊₁	-1059 ₋₂				
	1319				+5.7	88° 58'	-26.9	-21.2			BS						
478	1094		39° 18' 36"	+14.4	9.2	88° 40'	+25.4	+16.2		3575.4	TI	+647	+882	648,882	2,085,491	TPD NORTH	
478	990		39° 01'	"	8.0	88° 40'	+23.0	+15.0		3574.2		+590	+795	648,825	2,085,404		
479	660		" "	"	6.0	88° 40'	+15.4	+9.4		3568.6		+393	+530	648,628	2,085,139		
480	330		" "	"	2.9	88° 40'	+7.7	+4.8		3564.0		+197	+265	648,432	2,084,874		
481	0				5.4	-	-	-5.4		3553.8	TI	0	0	648,235	2,084,609		
482	330		219° 16'	+14.4	13.6	-	-	-13.0		3546.2		-196	-266	648,039	2,084,343		
483	660		" "	"	8.8	91° 20'	-15.4	-24.2		3535.0		-391	-532	647,844	2,084,071		
484	990		" "	"	11.7	91° 20'	-23.0	-34.7		3524.5		-587	-798	647,648	2,083,811		
TP	1132		218° 53' 42"	"	12.0	91° 20'	-26.3	-38.3		3520.9	TI	-676 ₊₁	-907 ₋₂	647,560	2,083,700	y=647560 x=2,083,700 4-way INT.	
TP	1132				8.8	91° 30'	-29.6	-38.4			TP					HORIZ CORR. y = +20' x = -28'	
	4147		39° 05' 08" +180°	+14.4	+11.2	88° 36'	-101.7	-90.5			BS	-2467 ₊₅	-3332 ₊₅			E.D.M.	
	4147				+5.8	88° 40'	-96.9	-91.1	90.8	3430.1	BS						
-485	3959		38° 59'	+14.4	7.0	88° 40'	+92.4	+85.4		3515.5		+2361	+3178	647,459	2,083,551	E.A.M.	
486	3630		" "	"	7.9	88° 40'	+84.7	+76.8		3506.9		+2165	+2914	647,263	2,083,287		

SURVEY NOTES-HIGH RESOLUTION DATA
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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
2-20-82		B. Cotcamp		M. Knapp		6834		MPK JK		3		35			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
CALIF.				CALIF.		Kern								L. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									3430.1						
487	3300		38° 59'	+14.4°	8.0	88° 40'	+77.0	+69.0		3449.1		+1968	+2649	647,066	2,083,022
488	2970		" "	" "	6.9	88° 40'	+69.3	+62.4		3442.5		+1771	+2384	646,869	2,082,757
489	2640		" "	" "	6.2	88° 40'	+61.6	+55.4		3485.5		+1575	+2119	646,673	2,082,492
490	2310		" "	" "	7.1	88° 40'	+53.7	+46.6		3476.7		+1378	+1854	646,476	2,082,227
491	1980		" "	" "	5.4	88° 40'	+46.1	+40.7		3470.8		+1181	+1589	646,279	2,081,962
492	1650		" "	" "	7.7	88° 40'	+38.4	+30.7		3460.8		+984	+1324	646,082	2,081,697
493	1320		" "	+14.4°	5.2	88° 30'	+34.5	+29.3		3459.4		+787	+1059	645,885	2,081,432
#1	1318		39° 18' 36"	" "	5.2	88° 30'	+34.5	+29.3		3459.4	#1	+780	+1062	645,878	2,081,435 TRD NORTH y-645,870 x-2,081,400
494	990		38° 59'	" "	6.3	88° 30'	+25.9	+19.6		3449.7		+596	+795	645,688	2,081,168
495	660		" "	" "	5.9	88° 30'	+17.3	+11.4		3441.5		+394	+530	645,492	2,080,903
496	330		" "	" "	3.7	88° 30'	+8.6	+4.9		3435.0		+197	+265	645,295	2,080,638
497	0				5.4	-		-5.4		3424.7	T	0	0	645,098	2,080,373
498	330		219° 03'	+14.4°	6.9	91° 40'	-9.6	-16.5		3413.6		-197	-265	644,901	2,080,108
499	660		" "	" "	9.9	91° 40'	-19.2	-29.1		3401.0		-393	-530	644,705	2,079,843
500	990		" "	" "	13.2	91° 40'	-28.8	-42.0		3388.1		-590	-795	644,508	2,079,578
501	1320		" "	" "	8.0	92° -	-46.0	-54.0		3376.1		-786	-1060	644,312	2,079,313
502	1650		" "	" "	7.8	92° -	-57.6	-65.4		3364.7		-983	-1326	644,115	2,079,047
503	1980		" "	+14.4°	6.9	92° -	-69.1	-76.0		3354.1		-1179	-1591	643,919	2,078,782
504	2310		" "	" "	4.4	92° -	-80.6	-85.0		3345.1		-1376	-1856	643,722	2,078,517
#1	2627		218° 46' 53"	" "	7.2	91° 50'	-83.9	-91.1		3339.0	#1	-1574	-2102	643,524	2,078,271 4,114 y-643,545 x-2,078,235

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
2-20-82		B. Cotcamp		M. Knapp		6834		MDK		3		36			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
CALIF.		Johannesburg - 7 1/2		CALIF.		KERN								L. DAVIS	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									3430.1						
505	2640		219° 03'	+14.4°	7.2	91° 50'	-84.3	-91.5		3338.6		-1572	-2121	643,526	2,078,252
506	2970		" "	" "	10.8	91° 40'	-86.2	-97.0		3333.1		-1769	-2386	643,329	2,077,987
507	3300		" "	" "	5.5	91° 40'	-95.8	-101.3		3320.8		-1965	-2651	643,133	2,077,722
508	3630		" "	" "	12.3	91° 30'	-94.8	-107.1		3323.0		-2162	-2916	642,936	2,077,457
509	3960		" "	" "	10.9	91° 30'	-103.3	-114.2		3315.9		-2358	-3181	642,740	2,077,192
510	4291		219° 03'	+14.8°	4.9	91° 30'	-111.9	-116.8			TP	-2530	-3464	642,573	2,076,914 E.D.M.
510	4291				12.2	268° 36'	-104.5	-116.7		3313.4	TP				
	4949		38° 48' 26" +180°	+14.8°	7.3	89° 20'	-58.1	-50.8	3262.6		BS	-2936	-3984		E.D.M.
	4949				+12.9	276° 44'	-63.8	-50.9			BS				
511	4626		38° 48'	+14.8°	9.1	89° 20'	+54.2	+45.1		3307.7		+2742	+3719	642,384	2,076,654
512	4290		" "	" "	8.3	89° 20'	+50.3	+42.0		3304.6		+2546	+3453	642,188	2,076,388
513	3960		" "	" "	6.6	89° 20'	+46.4	+39.8		3302.4		+2350	+3187	641,992	2,076,122
514	3785		38° 55'	" "	6.1	89° 20'	+44.3	+38.2		3300.8	TI	+2240	+3051	641,882	2,075,986 E.D.M. - TRD. NORTH
514	3630		38° 48'	" "	8.3	89° 20'	+42.5	+34.2		3296.8		+2154	+2922	641,796	2,075,857
515	3300		" "	+14.8°	8.0	89° 20'	+38.6	+30.6		3293.2		+1958	+2656	641,600	2,075,591
516	2970		" "	" "	7.0	89° 20'	+34.7	+27.7		3290.3		+1762	+2391	641,404	2,075,326
517	2640		" "	" "	7.5	89° 20'	+30.9	+23.4		3286.0		+1567	+2125	641,209	2,075,060
518	2310		" "	" "	9.5	89° 20'	+26.9	+17.4		3280.0		+1371	+1859	641,013	2,074,794 ↑
519	1980		" "	" "	14.0	89° 20'	+23.0	+9.0		3271.6		+1175	+1594	640,817	2,074,529 Johannesburg
520	1650		" "	+14.8°	12.8	89° 28'	+15.4	+2.6		3265.2		+979	+1328	640,621	2,074,263 SALDALE S.E. ↓

SURVEY NOTES-HIGH RESOLUTION DATA
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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
2-20-82		B. Cotcamp		M. Knapp		6834		MPK Jm		3		37			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
CALIF.		SALTDAL S.E. - 7 1/2		CALIF.		KERN								L. DAVIS	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									3262.6						
521	1320		38° 48'	+14.8°	14.2	89° 30'	+11.5	-2.7		3259.9		+783	+1062	640,425	2,073,977
522	990		" "	" "	9.0	89° 30'	+8.6	-0.4		3262.2		+587	+797	640,229	2,073,732
41	768		39° 23' 07"	" "	4.3	89° 30'	+6.7	+2.4		3265.0	41	+449	+623	640,691	2,073,558
523	660		38° 48'	" "	8.3	89° -	+11.5	+3.2		3265.8		+392	+531	640,034	2,073,466
524	330		" "	" "	4.2	89° -	+5.8	+1.6		3264.2		+196	+266	639,838	2,073,201
525	0				5.4	-		-5.4		3257.2	X	0	0	639,642	2,072,935
526	330		218° 48'	+14.8°	12.9	-		-12.9		3249.7		-196	-266	639,446	2,072,669
527	660		" "	" "	12.0	90° 30'	-5.8	-17.8		3244.8		-392	-531	639,250	2,072,404
528	990		" "	" "	10.0	90° 30'	-8.6	-18.6		3244.0		-587	-797	639,055	2,072,138
529	1320		" "	" "	7.7	90° 30'	-11.5	-19.2		3243.4		-783	-1062	638,859	2,071,873
530	1650		" "	" "	7.2	90° 30'	-14.4	-21.6		3241.0		-979	-1328	638,663	2,071,607
531	1980		" "	" "	7.7	90° 30'	-17.3	-25.0		3237.6		-1175	-1594	638,467	2,071,341
532	2310		218° 48'	+14.8°	7.7	90° 30'	-20.2	-27.9		3234.7		-1371	-1859	638,271	2,071,076
533	2640		" "	" "	12.6	90° 30'	-22.9	-35.5		3227.1		-1567	-2125	638,075	2,070,810
534	2970		" "	" "	13.4	90° 30'	-25.7	-39.1		3223.5		-1762	-2391	637,880	2,070,544
535	3300		" "	" "	8.4	90° 36'	-34.3	-42.7		3219.9		-1958	-2656	637,684	2,070,279
536	3630		" "	" "	10.3	90° 36'	-37.7	-48.0		3214.6		-2154	-2922	637,488	2,070,013
537	3960		" "	" "	11.1	90° 36'	-41.1	-52.2		3210.4		-2350	-3187	637,292	2,069,748
538	4290		218° 48'	+14.8°	12.0	90° 36'	-44.5	-56.5		3206.1		-2546	-3453	637,096	2,069,482
539	4620		" "	" "	13.1	90° 36'	-47.9	-61.0		3201.6		-2742	-3719	636,900	2,069,216

y-640,090
TPO NORTH x-2073,515

↑
SALTDAL S.E.
↓
GALILEO HILL

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
2-20-82		B. Cotcamp		M. Knapp		6834		MPK Jm		3		38			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
CALIF.		GALILEO Hill - 7 1/2		CALIF.		Kern								L. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									3262.6						
540	4956		218° 48'	+14.8	13.2	90° 36'	-51.3	-64.5		3198.1		-2937	-3984	636,705	2,068,951
541	5280		" "	" "	7.3	90° 36'	-54.7	-62.0		3200.6		-3133	-4250	636,509	2,068,685
542	5609		218° 48' 21"	+15.0	12.2	90° 30'	-48.3	-60.5			TP	-3312	-4526	636,335	2,068,414 E.O.M.
542	5609				8.6	269° 28'	-51.6	-60.2	-60.3	3202.3	TP				
	989		38° 27' 26" +180°	+15.0	13.8	89° -	-17.3	-13.5	3188.8		BS	-589	-794		
	989				16.6	88° 55'	-20.1	-13.5			BS				
543	660		38° 27'	+15.0	6.6	88° 50'	+13.4	+6.8		3195.6		+393	+530	636,144	2,068,155
544	330		36° 52'	" "	6.6	88° 10'	+10.6	+4.0		3192.8		+204	+260	635,955	2,067,885
545	0				5.4	-	-	-5.4		3183.4	T	0	0	635,751	2,067,625
546	330		219° 05'	" "	5.6	91° 50'	-10.6	-16.2		3172.6		-194	-267	635,557	2,067,358
547	660		" "	" "	7.3	91° 30'	-17.3	-24.6		3164.2		-387	-535	635,364	2,067,090
≠	948		218° 07' 06"	+15.0	6.6	91° 30'	-24.8	-31.4		3157.4	TP	-569	-758	635,185	2,066,870
≠	948				8.3	91° 24'	-23.2	-31.5			TP				
BS	5322		39° 07' 53" +180°	+14.8	+14.9	88° 44'	-118.2	-103.3			BS	-333	-430		E.O.M.
BS	5322				+6.8	271° 10'	-109.0	-103.4	3054.0		BS				
548	5279		38° 53'	+14.8	6.2	88° 50'	+108.1	+101.9		3155.9		+3126	+4254	635,171	2,066,817 E.O.M.
549	4950		" "	" "	7.8	88° 50'	+101.3	+93.5		3147.5		+2932	+3988	634,977	2,066,551
550	4620		" "	" "	8.5	88° 50'	+94.5	+86.0		3140.0		+2736	+3723	634,781	2,066,286
551	4290		" "	" "	10.0	88° 50'	+87.7	+77.7		3131.7		+2541	+3457	634,586	2,066,020

4WAY BL. 3158.0
Y-635,185 Horiz y +28
X-2,066,870 CORR. X -28
E.O.M.

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
2-21-82		B. COSTAMP		M. KNAPP		6834		MPC dm		3	32						
AREA		TOPO MAP	STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER								
CALIFORNIA		Galileo Hill 7 1/2	CALIF.	Kern					L. DAVIS								
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS A TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS	
												LAT.	DEP.	Y	X		
									3054.0								
552	3960		38° 53'	+14.8	10.8	88° 50'	+81.0	+70.2		3124.2		+7345	+3191	634,390	2,065,754		
553	3630		" "	" "	9.9	88° 50'	+74.2	+64.3		3118.3		+2150	+2925	634,195	2,065,488		
554	3300		" "	" "	7.8	88° 50'	+67.4	+59.6		3113.6		+1954	+2659	633,999	2,065,222		
555	2970		" "	" "	16.0	88° 50'	+60.7	+50.7		3104.7		+1759	+2393	633,804	2,064,956		
IF	2895		39° 01' 13"	+14.8	10.0	88° 50'	+59.1	+49.1		3103.1	IF	+1709	+2336	633,754	2,064,899	y-633,720 x-2064,900 TRD SOUTH	
556	2640		38° 53'	" "	9.1	88° 50'	+53.9	+44.8		3098.8		+1564	+2127	633,609	2,064,690		
557	2310		" "	" "	10.8	88° 50'	+47.0	+36.2		3090.2		+1368	+1861	633,413	2,064,424		
558	1980		" "	" "	11.3	88° 50'	+40.3	+29.0		3083.0		+1173	+1595	633,218	2,064,158		
559	1650		" "	+14.8	12.1	88° 50'	+33.6	+21.5		3075.5		+977	+1330	633,022	2,063,893		
560	1320		38° 53'	" "	11.7	88° 50'	+26.9	+15.2		3069.2		+782	+1064	632,827	2,063,627		
561	990		" "	" "	11.1	88° 50'	+20.2	+9.1		3063.1		+586	+798	632,631	2,063,361		
562	660		" "	" "	9.7	88° 50'	+13.4	+3.7		3057.7		+391	+532	632,436	2,063,095		
563	330		" "	" "	7.2	88° 50'	+6.7	-0.5		3053.5		+195	+266	632,240	2,062,829		
564	21		61° 20'	+14.8	5.0	88° 50'	+0.4	-4.6		3049.4	564	+5	+20	632,050	2,062,563	y-632,005 x-2,062,580 TRD NORTH	
564	0				5.4	-		-5.4		3048.6	564	0	0	632,045	2,062,563		
565	330		218° 52'	+14.8	8.7	91° 20'	-7.7	-16.4		3037.6		-196	-266	631,849	2,062,297		
566	660		" "	" "	7.8	91° 20'	-15.4	-23.2		3030.8		-391	-532	631,654	2,062,031		
567	990		" "	" "	6.2	91° 20'	-23.0	-29.2		3024.0		-587	-798	631,458	2,061,765		
568	1320		" "	" "	6.1	91° 20'	-30.7	-36.0		3017.2		-782	-1063	631,263	2,061,500		

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
2-21-81		B Cotcamp		M. Knapp		6834		MAC Jm		3	40			
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER			
CALIF.		GALILEO Hill 7 1/2				Kern					L. Davis			
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
											NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
								3054.0						
569	1650		218° 52'	+14.8°	4.9	91° 20'	-38.4	-43.3	3010.7		-978	-1329	631,067 2,061,234	
570	1980		" "	" "	4.8	91° 20'	-46.1	-50.9	3003.1		-1173	-1595	630,872 2,060,968	
571	2310		" "	" "	3.1	91° 20'	-53.7	-56.8	2997.2		-1369	-1861	630,676 2,060,702	
572	2640		" "	" "	3.0	91° 20'	-61.3	-64.3	2989.7		-1564	-2127	630,481 2,060,436	
IF	2870		218° 44' 50"	" "	10.9	91° 10'	-58.3	-69.2	2984.8	IF	-1705	-2308	630,340 2,060,255	4-630,320 x-2,060,770 4 way INT.
573	2970		218° 52'	+14.8	11.2	91° 10'	-60.3	-71.5	2982.5		-1760	-2393	630,285 2,060,170	
574	3300		" "	" "	11.5	91° 10'	-67.0	-78.5	2975.5		-1955	-2658	630,090 2,059,905	
575	3630		" "	" "	10.8	91° 10'	-73.6	-84.4	2969.6		-2151	-2924	629,894 2,059,639	
576	3960		" "	" "	9.5	91° 10'	-88.5	-98.0	2956.0		-2346	-3190	629,699 2,059,373	
577	4290		" "	" "	10.4	91° 10'	-87.0	-97.4	2956.6		-2542	-3456	629,503 2,059,107	
578	4620		218° 52'	+14.8	10.9	91° 10'	-93.6	-104.5	2949.5		-2737	-3722	629,308 2,058,841	
579	4950		" "	" "	9.4	91° 10'	-100.3	-109.7	2944.3		-2933	-3988	629,112 2,058,575	
580	5280		" "	" "	8.5	91° 10'	-106.9	-115.4	2938.6		-3128	-4253	628,917 2,058,310	
581	5610		" "	" "	3.5	91° 10'	-113.6	-117.1	2936.9		-3324	-4519	628,721 2,058,044	
582	5939		" "	" "	9.0	91° 02'	-106.4	-115.4	2938.6		-3519	-4784	628,526 2,057,779	E.R.M
TP	6090		218° 48' 48"	" "	10.6	90° 34'	-94.9	-105.5		TP	-3612	-4902	628,426 2,057,655	E.O.M
TP	6090				3.6	269° 02'	-102.0	-105.6	2948.4	TP				
	1500		38° 45' 20"	+180	+14.8	10.5	89° -	-26.2	-15.7	2932.7	BS	-891	-1206	
	1500				+6.1	89° 10'	-21.8	-15.7		BS				
IF	1460		39° 04' 48"	+14.8	11.2	89° -	+25.5	+14.3	2947.0	IF	+861	+1179	628,389 2,057,622	4-628,375 x-2,057,630 TRD NOEM

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
2-22-82		B. Cotcamp		M. Kwapp		6834		MPK Jm		3		41			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
CALIF.		GALILEO Hill- 7 1/2		CALIF.		KERN								L. DAVIS	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									2932.7						
583	1320		38° 45'	+14.8	12.6	89° 16'	+16.9	+4.3		2937.0		+784	+1062	628,312	2,057,505
584	990		" "	" "	6.0	89° 16'	+12.7	+6.7		2939.4		+588	+796	628,116	2,057,239
585	660		" "	" "	4.3	89° -	+11.5	+7.2		2939.9		+392	+531	627,920	2,056,974
586	330		" "	" "	4.2	89° -	+5.8	+1.6		2934.3		+196	+265	627,724	2,056,708
587	0				5.4	-		-5.4		2927.3	TP	0	0	627,528	2,056,443
588	330		219° 04'	+14.8	8.3	92° -	-11.5	-19.8		2912.9		-195	-267	627,333	2,056,176
589	660		" "	" "	12.6	92° -	-23.0	-35.6		2897.1		-389	-533	627,129	2,055,910
590	990		" "	" "	8.2	92° -	-34.5	-42.7		2890.0		-584	-800	626,944	2,055,643
591	1320		" "	" "	13.1	91° 30'	-34.5	-47.6		2885.1		-778	-1066	626,750	2,055,377
592	1650		" "	" "	5.9	91° 30'	-43.2	-49.1		2883.6		-973	-1333	626,555	2,055,110
593	1980		219° 04' 26"	+14.8	11.1	91° -	-34.6	-45.7		2887.0	TP	-1167	-1599	626,354	2,054,838
593	1980		" "	" "	7.7	91° 06'	-38.0	-45.7			TP				
	1648		38° 57' 31" +180	+14.8	+6.4	89° 20'	-19.2	-12.8		2874.2	BS	-974	-1329		
	1648		" "	" "	+11.2	89° 10'	-24.0	-12.8			BS				
594	460		39° 30' 43"	+14.8	7.2	89° 10'	+21.2	+14.0		2888.2	TP	+852	+1186	626,225	2,054,689
594	1320		38° 58'	" "	6.8	89° 10'	+19.2	+12.4		2886.6		+780	+1065	626,153	2,054,568
595	990		" "	" "	8.4	89° 10'	+14.4	+6.0		2880.2		+585	+799	625,958	2,054,302
596	660		" "	" "	10.8	89° 10'	+9.6	-1.2		2873.0		+390	+532	625,763	2,054,035
597	330		" "	" "	7.4	89° 10'	+4.8	-2.6		2871.6		+195	+266	625,568	2,053,769
598	0				5.4	-		-5.4		2868.8	TP	0	0	625,373	2,053,503

y-626,215 x-2,054,700
Way Int.

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
2-22-82		B. Costamp		M. Knapp		6834		MPK Jm		3		42			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
CALIF.		GALILEO Hill - 7 1/2		CALIF.		KERN								L. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									2874.2						
599	330		219° 11'	+14.8	9.9	90° 20'	-1.9	-11.8		2862.4		-194	-267	625,179	2,052,236
600	660		" "	" "	10.7	90° 40'	-7.7	-18.4		2855.8		-388	-534	624,985	2,052,969
601	990		" "	" "	12.9	90° 40'	-11.5	-24.4		2849.8		-582	-801	624,791	2,052,701
602	1320		" "	+14.8	10.1	90° 40'	-15.4	-25.5		2848.7		-776	-1068	624,597	2,052,435
603	1650		" "	" "	14.0	90° 20'	-9.6	-23.6		2850.6		-970	-1335	624,403	2,052,168
604	1980		" "	" "	6.1	90° 36'	-17.3	-23.4		2850.8		-1164	-1602	624,209	2,051,901
TP	1979		218° 40' 13"	+14.6	6.1	90° 30'	-17.3	-23.4		2850.8	TP	-1178	-1590	624,190	2,051,910
TP	1979		" "	" "	10.8	90° 22'	-12.7	-23.5			TP				
	1976		39° 17' 36" +180°	+14.6	+4.6	-		+4.6		2855.4	BS	-1164	-1596		E.A.M.
	1976				+14.4	TH	-9.9	+4.5			BS				
605	1649		38° 54'	+14.6	6.6	-		-6.6		2848.8		+981	+1326	624,059	2,051,641
606	1320		" "	" "	12.0	-		-12.0		2843.4		+785	+1061	623,813	2,051,376
607	990		" "	" "	8.8	B4	-5.0	-13.8		2841.6		+589	+796	623,617	2,051,111
608	660		" "	" "	11.7	B4	-3.3	-15.0		2840.4		+393	+531	623,421	2,050,846
609	330		" "	" "	9.9	-		-9.9		2846.5		+196	+265	623,224	2,050,580
610	0		" "	" "	5.4	-		-5.4		2850.0	TP	0	0	623,028	2,050,315
611	330		219° 16'	+14.6	12.7	-		-12.7		2842.7		-195	-267	622,833	2,050,048
612	660		" "	" "	8.1	91°	-11.5	-19.6		2835.8		-389	-533	622,639	2,049,782
613	990		" "	" "	9.1	91°	-17.3	-26.4		2829.0		-584	-800	622,444	2,049,515

x-624,190 x=2,051,910
#4 way into Horiz
CORR y=-46
x=-33

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
2-22-82		B. Cotcamp		M. Knapp		6834		MPK JM		3		43			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
CALIFORNIA		GAILEO HILL-7A		CALIF.		KERN								L. DAVIS	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									2855.4						
614	1320		219° 16'	+14.6°	7.9	91° -	-23.0	-30.9		2824.5		-778	-1066	622,250	2,049,249
615	1650		" "	"	6.1	91° -	-28.8	-34.9		2820.5		-973	-1333	622,055	2,048,982
616	1981		219° 16' 17"	"	6.0	91° -	-34.6	-40.6		2814.8	TP	-1168 ₊₂	-1600 ₊₁	621,862	2,048,716
616	1981				2.6	91° 06'	-38.0	-40.6			TP				
	1979		39° 16' 32" ± 180°	+14.6°	+3.3	88° 50'	-40.3	-37.0	2772.8		BS	-1169 ₊₂	-1596 ₊₁		
	1979				+9.0	88° 40'	-46.0	-37.0			BS				
617	1650		39° 11'	+14.6°	7.9	88° 40'	+38.4	+30.5		2808.3		+975	+1331	621,670	2,048,452
17	1429		39° 41' 04"	"	6.3	88° 40'	+33.2	+26.9		2804.7	TP	+834	+1160	621,529	2,048,281
618	1320		39° 11'	"	5.9	88° 40'	+30.7	+24.8		2802.6		+780	+1065	621,475	2,048,186
619	990		" "	"	7.1	88° 40'	+23.0	+15.9		2793.7		+585	+799	621,280	2,047,920
620	660		" "	"	6.0	88° 40'	+15.4	+9.4		2787.2		+390	+532	621,085	2,047,653
621	330		" "	"	6.2	88° 40'	+7.7	+1.5		2779.3		+195	+266	620,890	2,047,387
622	0				5.4	-		-5.4		2772.4	TP	0	0	620,695	2,047,121
623	330		219° 21'	+14.6°	9.2	91° 10'	-6.7	-15.9		2761.9		-194	-267	620,501	2,046,854
624	660		" "	"	10.5	91° 10'	-13.4	-23.9		2753.9		-388	-534	620,307	2,046,587
625	990		" "	"	12.3	91° 10'	-20.2	-32.5		2745.3		-583	-800	620,112	2,046,321
626	1320		" "	"	11.0	91° 20'	-30.7	-41.7		2736.1		-777	-1067	619,918	2,046,054
627	1650		" "	"	10.3	91° 20'	-38.4	-48.7		2729.1		-971	-1334	619,724	2,045,787
628	1981		218° 36' 06"	"	8.9	91° 20'	-46.1	-55.0		2722.8	TP	-1186 ₊₂	-1586 ₊₁	619,511	2,045,536
628	1981				4.4	91° 28'	-50.7	-55.1			TP				across str.

Y=621,550 X=2,048,265
TPO SOUTH

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
2-22-82		B. Cotamp		M. Knapp		6834		MPK Jm		3	44				
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
CALIFORNIA		CALLED HILL-7 1/2		CALIF.		EA KERN					C. CAWIS				
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
BS	1751		40° 03' 04" +180	+146°	+5.3	88° 50'	-35.7	-30.4	2692.4	2722.8	BS	-1013 _{±2}	-1428 _{±1}		
BS	1751				+10.3	88° 40'	-40.7	-30.4			BS				
629	1422		39° 15'	+146°	10.2	88° 40'	+33.1	+22.9		2715.3		+839	+1148	619,339	2,045,257
630	1092		" "	"	12.0	88° 40'	+25.4	+13.4		2705.8		+644	+882	619,144	2,044,991
631	762		" "	"	8.0	88° 40'	+17.7	+9.7		2702.1		+450	+615	618,950	2,044,724
632	432		" "	"	11.5	88° 40'	+10.0	-1.5		2690.9		+255	+349	618,755	2,044,458
633	102		35° 55'	"	5.7	88° 40'	+2.4	-3.3		2689.1		+83	+60	618,583	2,044,169
0	0				5.4	-	-	-5.4		2687.0	TP	0	0	618,500	2,044,109
634	232		238° 06'	+146°	7.0	80° 50'	-3.4	-10.4		2682.0		-69	-222	618,431	2,043,887
635	562		236° 34'	"	10.0	90° 50'	-8.2	-18.2		2674.2		-181	-532	618,319	2,043,577
636	892		" "	"	8.4	91° 10'	-18.2	-26.6		2665.8		-288	-844	618,212	2,043,265
637	1222		" "	"	10.0	91° 10'	-24.9	-34.9		2657.5		-394	-1157	618,106	2,042,952
638	1552		" "	"	11.2	91° 10'	-31.6	-42.8		2649.6		-501	-1469	617,994	2,042,640
639	1882		236° 33' 36"	+15.0°	12.3	91° 10'	-38.3	-50.6		2641.8	TP	-595 _{±2}	-1785 _{±1}	617,907	2,042,329
639	1882		" "	"	6.8	91° 20'	-43.8	-50.6			TP				
	989		56° 22' 14" +180	"	+7.8	89°	-17.3	-9.5			BS	-316 _{±2}	-937 _{±1}		
	989			"	+5.0	89° 10'	-14.4	-9.4	2632.4		BS				
640	660		56° 22'	"	7.9	89° 10'	+9.6	+1.7		2634.1		+211	+625	617,804	2,042,014
641	330		" "	"	11.6	89° 10'	+4.8	-6.8		2625.6		+105	+313	617,698	2,041,702
642	0				5.4	-	-	-5.4		2627.0	TP	0	0	617,593	2,041,389

ACROSS STR.

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
2-22-82		B. Cottramp		M. Knapp		6834		MKK Jon		3		45			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
CALIF.		GALLED HILL-7 1/2'		CALIF		Kern									
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
									2632.4						
643	330		236° 05'	+15.0°	10.3	91° 30'	-8.6	-18.9		2613.5		-107	-312	617,486	2,041,077
644	660		" "	"	9.8	91° 30'	-17.3	-27.1		2605.3		-214	-624	617,379	2,040,765
645	990		" "	"	7.3	91° 30'	-25.9	-33.2		2599.2		-321	-937	617,272	2,040,452
646	1320		" "	"	6.1	91° 20'	-30.7	-36.8		2595.6		-428	-1249	617,165	2,040,140
FP647	1637		232° 45' 37"	"	8.2	91° 20'	-38.1	-46.3		2586.1	TP	-619 _{±2}	-1515 _{±1}	616,976	2,039,875
BS	655				12.0	91° 12'	-34.3	-46.3			TP				
BS	655		12° 52' 30" +180	+15.0°	+8.9	88° 30'	-17.1	-8.2	2577.9		BS	-579	-306 _{±1}		
BS	655			"	+10.8	88° 20'	-19.0	-8.2			BS				
648	330		4° 16'	"	7.3	88° 40'	+7.7	+0.4		2578.3		+312	+109	616,711	2,039,679
649	0				5.4	-		-5.4		2572.5	T	0	0	616,399	2,039,570
650	330		181° 51'	+15.0°	8.7	91° -	-5.8	-14.5		2563.4		-316	-96	616,083	2,039,474
651	660		" "	"	6.4	91° -	-11.5	-17.9		2560.0		-632	-191	615,767	2,039,379
652	990		" "	"	7.0	91° -	-17.3	-24.3		2553.6		-948	-287	615,451	2,039,283
653	1320		" "	"	7.8	91° -	-23.0	-30.8		2547.1		-1263	-383	615,136	2,039,187
TP	1366 1371		181° 50' 38"	"	7.8	91° -	-23.9	-31.7		2546.2	IF	-1312 _{±2}	-397 _{±1}	615,089	2,039,174
TP	1366 1371				11.8	90° 50'	-19.9	-31.7			IF				
BS	1164		03° 40' 02" +180	+15.0°	+3.3	89° 26'	-11.5	-8.2	2538.0		BS	-1103 _{±2}	-373 _{±1}		
BS	1164				+5.3	89° 20'	-13.5	-8.2			BS				

Y=615,100 X=2,039,140
T-RO



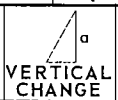
SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
2-23-82		B. COLEMAN		M. KNAPP		6834		MPK Jm		3	46					
AREA		TOPO MAP	STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
CALIFORNIA		CALIF. HILLS	CALIF.	KERN					L. DAVIS							
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS	
											LAT.	DEP.	Y	X		
								2538.0								
654	888		3° 12'	+15.0°	10.1	89° 10'	+2.9		2540.8		+844	+277	614,832	2,039,079		
655	558		3° 32'	"	11.5	89° 10'	+8.1		2534.6		+529	+177	614,517	2,038,979		
656	228		357° 48'	"	11.0	89° 10'	+3.3		2530.3		+222	+51	614,210	2,038,853		
π	0				5.4	-	-5.4		2532.6	π	0	0	613,988	2,038,802	AROUND CORN.	
657	162		245° 00'	+15.0°	9.7	BH	-0.8		2527.5		-28	-160	613,960	2,038,642		
658	492		229° 39'	"	12.5	-	-12.5		2525.5		-211	-445	613,777	2,038,357		
659	822		" "	"	8.3	90° 40'	-9.6		2520.1		-352	-743	613,636	2,038,059		
660	1142		229° 39' 10"	"	10.5	90° 40'	-13.3		2514.2	TP	-489	-1032	613,501	2,037,772		
660	1142				7.1	90° 50'	-16.6			TP						
	845		46° 53' 20" +180	+15.0°	1.1	TM	-4.2		2511.1	BS	-398	-745				
	845				1.8	89° 40'	-4.9			BS						
661	515		44° 19'	+15.0°	6.9	89° 10'	+7.5		2511.7		+263	+443	613,368	2,037,472	GALILEO HILL	
662	785		38° 46'	"	5.9	89° 10'	+2.7		2507.9		+109	+149	613,214	2,037,178	CALIF. CITY NORTH	
π	0				5.4	-	-5.4		2505.7	π	0	0	613,105	2,037,029	AROUND CORN. ↓	
663	143		209° 06'	+15.0°	7.6	-	-7.6		2508.5		-103	-100	613,002	2,036,929		
664	473		203° 11'	"	10.5	-	-10.5		2500.6		-372	-292	612,733	2,036,737		
665	802		202° 02' 29"	"	11.5	BH	-4.0		2495.6	TP	-640	-483	612,467	2,036,548		
665	802				8.5	90° 30'	-7.0			TP						
	330		19° 51' 26" +180	+15.0°	3.7	89° -	-5.8		2493.5	BS	-271	-189				
	330				9.4	88° -	-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					
2-23-82		B. Cotcamp		M. Knapp		6834.		MPK dm		3	47					
AREA		TOPO MAP	STATE	COUNTY	TWP	RANGE	PPM	PARTY MANAGER								
CALIF.		CALIF. CITY NORTH - 7 1/2	CALIF.	Kern				L. DAVIS								
STATION NO.	 SLOPE DISTANCE	 PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	 VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH - LAT.	EAST + WEST - DEP.	COORDINATES Y X		REMARKS
666	0			+15.0					2493.5			0	0	612,198	2,036,361	
Bm	229		272° 38' 08"	"	2.4	-		-2.4	} 2491.1	Bm	+69 _{±3}	-218 _{±2}	612,270	2,036,145	y-612,270 x-2,036,145	
Bm	229				3.5	TM	+1.1	-2.4								Bench mark, Horiz Corp, y +33' x +21' EL. 2492.0
R											R ₁					
BS	1268		10° 31' 04" +180°	+15.0	+5.6	-		+5.6	} 2496.7	BS	-114 _{±4}	-546 _{±4}				
BS	1268		" "	" "	+12.0	TM	-6.3	+5.7			BS					
667	990		19° 59'	" "	13.0	-		-13.0		2483.7		+811	+568	611,941	2,036,163	
668	660		" "	+15.0	8.4	-		-8.4		2488.3		+541	+378	611,671	2,035,973	
669	330		" "	" "	9.7	-		-9.7		2487.0		+270	+189	611,400	2,035,781	
670	0				5.4	-		-5.4		2491.3	T	0	0	611,130	2,035,595	
671	330		200 23	+15.0	11.6	-		-11.6		2485.1		-269	-191	610,861	2,035,404	
672	660		" "	" "	13.1	90° 30'	-5.8	-18.9		2477.8		-538	-382	610,542	2,035,213	
673	990		" "	" "	4.2	90° 30'	-8.6	-12.8		2483.9		-807	-573	610,323	2,035,022	y-610,100 x-2,034,890
IF	1251		199° 47' 58"	" "	9.4	BH	-6.3	-15.7		2481.0	IF	-1027	-714	610,103	2,034,881	TRD NORTH
674	1321		200° 22' 44"	" "	8.7	90° 20'	-7.7	-16.4	} 2480.3	TP	-1077 _{±4}	-765 _{±4}	610,057	2,034,826		
674	1321				4.9	90° 30'	-11.5	-16.4			TP					
BS	1649		20° 26' 30" +180°	+15.0	+4.2	TM	-8.2	-4.0	} 2476.3	BS	-1343 _{±4}	-956 _{±4}				
BS	1649		" "	" "	+5.5	89° 40'	-9.6	-4.1			BS					
675	1320		20° 27'	" "	9.0	89° 40'	+7.7	-1.3		2475.0		+1075	+766	609,793	2,034,632	
676	990		" "	" "	11.0	89° 40'	+5.8	-5.2		2471.1		+806	+574	609,524	2,034,440	

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
2-23-82		B. Cotcamp		M. Knapp		6834		MPK Jm		3		48			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
CALIF		CALIF. CITY NORTH 7 1/2		CALIF.		Kern								L. DAVIS	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									2476.3						
677	660		20° 27'	+15.0	9.8	87° 40'	+3.8	-6.0		2470.3		+538	+383	609,256	2,034,249
678	330		" "	" "	7.8	89° 40'	+1.9	-5.9		2470.4		+269	+191	608,987	2,034,057
679	0				5.4	-		-5.4		2470.9	TP	0	0	608,718	2,033,866
680	330		200° 29'	+15.0	8.7	-		-8.7		2467.6		-269	-192	608,449	2,033,674
681	660		" "	" "	11.1	BH	-3.3	-14.4		2461.9		-537	-383	608,181	2,033,483
682	990		" "	" "	9.2	BH	-5.0	-14.2		2462.1		-806	-575	607,912	2,033,291
683	1217		200° 06' 36"	" "	13.6	BH	-6.1	-19.7		2456.6	TP	-996	-700	607,722	2,033,166
683	1320		200° 29'	+15.0	13.0	90° 20'	-7.7	-20.7		2455.6		-1075	-766	607,643	2,033,100
684	1660		" "	" "	11.1	90° 20'	-9.6	-20.7		2455.6		-1344	-958	607,374	2,032,908
685	1980		200° 28' 23"	" "	6.7	90° 20'	-11.5	-18.2		2458.1	TP	-1612	-1149	607,108	2,032,713
685	1980		" "	" "	12.5	90° 10'	-5.8	-18.3			TP				
	1650		20° 52' 48" +180	+15.0	+11.7	89° 10'	-24.0	-12.3	2445.8		BS	-1337	-962		
	1650		" "	" "	9.8	89° 14'	-22.1	-12.3			BS				
686	1320		21° 07'	+15.0	13.0	89° 10'	+19.2	+6.2		2452.0		+1066	+778	606,838	2,032,521
687	990		21° 22'	" "	7.5	89° 10'	+14.4	+6.9		2452.7		+797	+587	606,569	2,032,330
688	660		" "	" "	5.7	89° 16'	+9.6	+3.9		2449.7		+531	+391	606,303	2,032,134
689	330		" "	" "	7.0	89° 10'	+4.8	-2.2		2443.6		+266	+196	606,038	2,031,939
690	0		" "	+15.0	5.4	-		-5.4		2446.4	TP	0	0	605,772	2,031,743
691	330		213° 57'	" "	12.1	-		-12.1		2433.7		-217	-249	605,555	2,031,494
692	660		212° 33'	" "	8.1	90° 56'	-10.8	-18.9		2426.9		-445	-487	605,327	2,031,256

607,695 X - 2,033,175
Highway INT.

ACR 055 STA.

SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
2-23-82		B. Cotcamp		M. KNAPP		6834		MPK Jm		3	49			
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER			
CALIF.		CALIF. CITY NORTH-7 1/2		CALIF.		KERN					L. Davis			
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
											NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
								2445.8						
693	990		212° 02'	+15.0	12.1	90° 30'	-8.6	-20.7	2425.1		-675	-724	605,097 2,031,019	
694	1105		211° 05' 38"	" "	8.3	90° 30'	-9.6	-17.9	2427.9		-766	-796	605,006 2,030,947	5-605,000 x-2,030,910 4 way INT.
694	1320		211° 39'	" "	10.0	90° 30'	-38	-13.8	2432.0		-906	-960	604,866 2,030,783	
695	1650		211° 32'	" "	10.0	90° 26'	-12.5	-22.5	2423.3		-1135	-1198	604,637 2,030,545	
696	1981		211° 24' 42"	+15.0	6.0	90° 30'	-17.3	-23.3	2422.5	TP	-1366	-1435	604,407 2,030,305	
696	1981				11.7	90° 20'	-11.5	-23.2		TP				
	4949		30° 49' 20" +180	+15.0	+10.0	89° 29' 24"	-44.6	-34.6	2387.9	BS	-3449	-3549		
	4949				+15.0	89° 29' 52"	-49.6	-34.6		BS				
697	4620		30° 49'	+15.0	9.8	89° 30'	+40.8	+31.0	2418.9		+3220	+3313	604,179 2,030,066	
698	4290		" "	" "	14.0	89° 30'	+37.8	+23.8	2411.7		+2990	+3076	603,949 2,029,829	
699	3960		" "	" "	11.1	89° 34'	+30.3	+19.2	2407.1		+2760	+2840	603,719 2,029,593	
700	3630		" "	" "	6.8	89° 34'	+27.7	+20.9	2408.8		+2530	+2603	603,489 2,029,356	
701	3300		30° 49'	+15.0	7.2	89° 30'	+29.0	+21.8	2409.7		+2300	+2366	603,259 2,029,119	
702	2970		" "	" "	5.3	89° 30'	+26.1	+20.8	2408.7		+2070	+2130	603,029 2,028,883	
703	2640		" "	" "	6.3	89° 30'	+23.2	+16.9	2404.8		+1840	+1893	602,799 2,028,646	
704	2310		" "	" "	8.7	89° 30'	+20.2	+11.5	2399.4		+1610	+1657	602,569 2,028,410	
704	2076		31° 12' 15"	+15.0	12.3	89° 30'	+18.1	+5.8	2393.7		+1437	+1498	602,396 2,028,251	5-602,395 x-2028,250 4 way INT.
705	1980		30° 49'	" "	13.0	89° 30'	+17.3	+4.3	2392.2		+1380	+1420	602,339 2,028,173	
706	1650		" "	" "	8.1	89° 30'	+14.4	+6.3	2394.2		+1150	+1183	602,109 2,027,936	
707	1320		" "	" "	9.3	89° 30'	+11.5	+2.2	2390.1		+920	+947	601,879 2,027,700	

SURVEY NOTES-HIGH RESOLUTION DATA

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
2-23-82		B. C. Camp		M. Knapp		6834		MPK Ym		3		50			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
CALIF.		CALIF. CITY NORTH-7 1/2		CALIF.		Kern								L. DAVIS	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS & TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									2387.9						
708	990		30° 49'	+15.0	11.8	89° 30'	+8.6	-3.2		2384.7		+690	+710	601,649	2,027,463
709	660		" "	" "	12.8	89° 30'	+5.8	-7.0		2380.9		+460	+473	601,419	2,027,226
710	330		" "	" "	10.4	89° 30'	+2.9	-7.5		2380.4		+230	+237	601,189	2,026,990
711	0				5.4	-	-	-5.4		2382.5	T	0	0	600,959	2,026,753
712	330		210° 56'	+15.0	8.9	89° 30'	+2.9	-6.0		2381.9		-230	-237	600,729	2,026,523
713	660		" "	" "	12.0	89° 30'	+5.8	-6.2		2381.7		-459	-474	600,500	2,026,279
714	990		" "	" "	9.0	-	-	-9.0		2378.9		-689	-711	600,270	2,026,042
715	1320		" "	" "	10.8	BH	-6.6	-17.4		2370.5		-918	-948	600,041	2,025,805
1F	1352		210° 24' 47"	" "	11.4	BH	-6.8	-18.2		2369.7	1F	-949	-963	600,010	2,025,790
716	1650		210° 56'	+15.0	-18.9	BH	-8.3	-27.2		2360.7		-1148	-1186	599,811	2,025,567
717	1980		" "	" "	19.2	BH	-9.9	-29.1		2358.8		-1377	-1423	599,582	2,025,330
718	2310		" "	" "	17.7	BH	-11.6	-39.3		2348.6		-1607	-1660	599,352	2,025,093
719	2640		" "	" "	13.1	BH	-13.1	-26.2		2361.7		-1836	-1897	599,123	2,024,856
720	2970		210° 56'	" "	11.0	BH	-14.7	-25.7		2362.2		-2066	-2134	598,893	2,024,619
721	3300		" "	" "	19.3	BH	-16.3	-35.6		2352.3		-2295	-2371	598,664	2,024,382
722	3630		" "	+15.0	21.6	BH	-17.9	-39.5		2348.4		-2525	-2608	598,434	2,024,145
723	3959		210° 55' 54"	+15.0	11.5	BH	-19.5	-31.0		2356.9	TP	-2754	-2845	598,205	2,023,904
723	3959				18.2	90° 14'	-15.8	-31.0			TP		-4		
	988		29° 34' 30" +15.0	+15.0	+5.1	TH	-4.9	+0.2	2357.1		BS	-704	-693		
	988				+3.0	89° 30'	-2.9	+0.1			BS		-4		

y-600,010 x-2,025,790
 TRD NORTH Horiz y-+17'
 CORR. x--25

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
2-23-82		B. Cotcamp		M. Knapp		6834		MPK Jm		3	51					
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER						
CALIF.		CAL. CITY NORTH		CALIF.	Kern					L. DAVIS						
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS
												LAT.	DEP.	Y	X	
									2357.1							
724	660		28° 18'	+15.0	10.6	89° 50'	+1.9	-8.7		2348.4		+480	+453	597,981	2,023,660	
725	330		26° 14'	" "	7.5	89° 50'	+1.0	-6.5		2350.6		+248	+218	597,749	2,023,425	
726	0				5.4	-		-5.4		2351.7	T	0	0	597,501	2,023,207	
TP	660		206° 44' 07"	+15.0	14.1	BH	-3.0	-17.1	}	2340.0	Bm	-448	-399	597,053	2,022,804	DEPT. OF INT. BENCH
TP	600				12.2	90° 20'	-5.2	-17.1		Bm						
										2341.0	R1					5-597,050 x 2,022,795
BS	431		289° 39' 06" - 180°	+15.0	+10.5	-		+10.5	}	2351.5	BS	-213	+375			
BS	431			" "	+9.3	90° 10'	+1.3	+10.6		BS						
727	330		348° 26'	" "	2.6	TH	+1.7	-0.9		2350.6		+329	+20	597,169	2,023,195	
728	0			" "	5.4	-		-5.4		2346.1	T	0	0	596,840	2,023,175	
729	330		167° 16'	+15.0	9.3	89°	+5.8	-3.5		2348.0		-330	-13	596,510	2,023,162	
730	660		166° 56' 47"	" "	13.2	89°	+11.5	-1.7	}	2349.8	TP	-660	-22	596,180	2,023,150	
730	660				11.3	89° 10'	+9.6	-1.7		TP						
	1647		345° 06' 58" - 180°	+15.0	+10.8	TH	-8.2	+2.6	}	2352.4	BS	-1647	-3			
	1647				+7.3	89° 50'	-4.8	+2.5		BS						
731	1320		345° 07'	+15.0	8.9	TH	+6.6	-2.3		2350.1		+1320	+3	595,853	2,023,147	
732	990		" "	" "	8.7	-		-8.7		2343.7		+990	+2	595,523	2,023,146	
TP	802		345° 14' 58"	" "	14.3	BH	-4.0	-18.3		2334.1	TP	+802	+3	595,385	2,023,147	5-595,315 x 2,023,145
733	660		345° 07'	" "	12.1	BH	-3.3	-15.4		2337.0		+660	+1	595,193	2,023,145	TP INTERSECT EL.
734	330		" "	" "	5.0	-		-5.0		2347.4		+330	+1	594,863	2,023,145	

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
2-24-82		B. Cotamp		M. Knapp		6834		MKK Jm		3		52			
AREA		TO		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
CALIF.		CAL CITY SOUTH CAL CITY NORTH		CALIF.		KERN								L. DAVIS	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									2352.4						
735	0				5.4	-		-5.4		2347.0	X	0	0	594,533	2,023,144 LAST STA. ON ROAD
736	330		204° 59'	+15.0	9.8	91° 30'	-8.6	-18.4		2334.0		-253	-212	594,280	2,022,932
737	660		201° 13'	" "	5.2	91° 30'	-17.3	-22.5		2329.9		-532	-390	594,001	2,022,754
738	990		202° 58'	" "	8.0	91° -	-17.3	-25.3		2327.1		-780	-609	593,753	2,022,535
739	1320		203° 57'	" "	8.3	90° 50'	-19.2	-29.5		2324.9		-1027	-830	593,506	2,022,314
740	1650		203° 57'	+15.0	5.2	90° 50'	-24.0	-29.2		2323.2		-1283	-1037	593,250	2,022,107
741	1986		202° 16'	" "	8.9	90° 30'	-17.3	-26.2		2326.2		-1581	-1203	592,952	2,021,941
742	2303		202° 51' 41"	" "	3.5	90° 30'	-20.1	-23.6		2328.8	TP	-1818	-1413	592,715	2,021,728
742	2303				10.1	90° 20'	-13.4	-23.5			TP				
	1311		28° 24' 23" +180°	+15.0	+7.7	90° 40'	+15.2	+22.9	2351.7		BS	-952	-901		
	1311				+11.4	90° 30'	+11.4	+22.8			BS				
743	986		30° 10'	+15.0	8.7	90° 30'	-8.6	-17.3		2334.4		+695	+699	592,458	2,021,523
744	657		30° 53'	" "	11.0	90° 30'	-5.7	-16.7		2335.0		+457	+472	592,220	2,021,296
745	328		30° 48'	" "	7.7	90° 30'	-2.9	-10.6		2341.1		+229	+235	591,992	2,021,059
746	0				5.4	-		-5.4		2346.3	X	0	0	591,763	2,020,824
747	350		243° 53' 30"	+15.0	5.4	-		-5.4		2346.3	TP	-67	-343	591,696	2,020,481
747	330		231° -	" "	5.9	-		-5.9		2345.8		-134	-301	591,629	2,020,523
748	569		205° 22' 32"	+15.3	3.3	94	-2.8	-6.1		2345.6	TP	-432	-371	591,331	2,020,450
748	569			" "	9.0	74	+2.8	-6.2			TP				

591,700 x 2020,470
ROAD SOUTH (EL. 2346.0)
AROUND CAL. CITY N.W.
CORNER. CAL. CITY SOUTH
↓

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE							
2-24-82		B. Cotnam		M. Knapp		6834		MPK Jm		3		53							
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER					
CALIF.		CAL. CITY SOUTH 7 1/2		CALIF.		KERN								L. DAVIS					
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS	
												LAT.	DEP.	Y	X				
										2345.6									
BS	1658		343° 03' 30" -180	+15.3	+4.4	-		+4.4	2350.0		BS	-1657	+48						
BS	1658				+12.7	TM	-8.3	+4.4			BS		-3						
749	1326		343° 04'	+15.3	5.1	-		-5.1		2344.9		+1325	-38	590,999	2,020,457				
750	994		" "	" "	10.2	-		-10.2		2339.8		+994	-28	590,668	2,020,467				
751	662		" "	" "	9.8	-		-9.8		2340.2		+662	-19	590,336	2,020,476				
752	330		342° 51'	" "	5.2	-		-5.2		2344.8		+330	-11	590,004	2,020,484				
LINE TP	122		355 32 04 "	+15.3	5.0	BH	-0.6	-5.6		2344.4	STA. 126	+120	+23	589,794	2,020,518				y = 589,801 x = 2,020,511
753	0				5.4	-		-5.4		2344.6	T	0	0	589,674	2,020,495				ARROW CORN.
754	338		190° 12'	+15.3	5.0	TM	+1.7	-3.3		2346.7		-305	-146	589,369	2,020,349				ACROSS STA. E.P.M.
755	667		189° 10'	" "	2.5	TM	+3.3	+0.8		2350.8		-607	-276	589,067	2,020,219				E.P.M.
756	995		191° 09'	" "	8.2	89° 20'	+11.6	+3.4		2353.4		-891	-443	588,783	2,020,052				E.P.M.
757	1320		194° 16' 38"	+15.5	12.9	89° 20'	+15.4	+2.5		2352.5	TP	-1146	-656	588,528	2,019,836				
757	1320				9.1	89° 30'	+11.5	+2.4			TP								
	660		32° 49' 09" +180	+15.5	+2.1	BH	+3.3	+5.4		2357.9	OS	-439	-493						
	660				+5.4	-		+5.4			BS								
758	330		32° 49'	+15.5	6.0	-		-6.0		2351.9		+219	+246	588,308	2,019,586				y = 588,240 x = 2,019,555
#	284		34° 59' 41'	" "	5.4	-		-5.4		2352.5	#	+181	+219	588,210	2,019,559				4 WAY INT.
759	0				5.4	-		-5.4		2352.5	T	0	0	588,089	2,019,340				
760	330		219° 03'	" "	4.0	TM	+1.7	-2.3		2355.6		-191	-269	587,898	2,019,071				
761	660		222° 41'	+15.5	4.6	TM	+3.3	-1.3		2356.6		-348	-561	587,741	2,018,777				

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE		
2-24-82		B. Cotcamp		M. Knapp		6834		MPK JAW		3		54		
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PARTY MANAGER		
CALIF.		CAL. CITY SOUTH		CALIF.		KERN						L. DAVIS		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									2357.9					
762	981		224° 59' 26"	+15.4°	0.4	-		-0.4	2357.5		TP	-485	-853	587,604 2,018,484
762	981				5.3	TM	+4.9	-0.4		TP				
	2974		52° 06' 55" +180°	+15.4°	+12.8	-		+12.8	2370.3		BS	-1137	-2748	E.O.M.
	2974				+4.2	90° 10'	+8.5	+12.7		BS				
763 763 1/2	2764		54° 24' 17"	+15.4°	11.8	-		-11.8	2358.5		1/2	+954	+2594	587,421 2,018,327
763	2640		52° 15'	" "	11.5	-		-11.5	2358.8			+1004	+2442	587,471 2,018,175
764	2310		52° 19'	" "	10.1	-		-10.1	2360.2			+876	+2137	587,343 2,017,870
765	1980		52° 22'	" "	9.2	-		-9.2	2361.1			+747	+1834	587,214 2,017,567
766	1650		52° 29'	+15.4°	8.3	-		-8.3	2362.0			+621	+1529	587,088 2,017,262
767	1320		52 49	" "	8.1	-		-8.1	2362.2			+490	+1226	586,957 2,016,959
768	990		53° 15'	" "	7.3	-		-7.3	2363.0			+360	+922	586,827 2,016,655
769	660		53° 59'	" "	6.6	-		-6.6	2363.7			+232	+618	586,699 2,016,351
770	360		56° 28' 10"	+15.4°	5.4	-		-5.4	2364.9		1/2	+112	+342	586,579 2,016,075
770	330		55° 01'	" "	5.4	-		-5.4	2364.9			+111	+311	586,578 2,016,044
771	0				5.4	-		-5.4	2364.9		TP	0	0	586,467 2,015,733
772	330		284° 38'	+15.4°	3.0	-		-3.0	2367.3			± 0	-330	586,467 2,015,403
773	660		" "	" "	5.0	TM	+3.3	-1.7	2368.6			± 0	-660	586,467 2,015,073
774	990		" "	" "	4.0	TM	+5.0	+1.0	2371.3			+1	-990	586,468 2,014,743
775	1320		" "	" "	4.0	TM	+6.6	+2.6	2372.9			+1	-1320	586,468 2,014,413
776	1650		" "	" "	6.7	TM	+8.3	+1.6	2371.9			+1	-1650	586,468 2,014,083

y=587,395 x=2,018,320

ROAD SOUTH EL. 2361.0

y=586,570 x=2,016,090

ROAD NORTH

across sta.

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
2-24-82		B. Cotcamp		M. Knapp		6834		MPK JM		3	55						
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
CALIF.		CAL. CITY SOUTH		CALIF.	KEEN					L. Davis							
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH +	EAST +	COORDINATES		REMARKS	
												SOUTH -	WEST -	Y	X		
									2370.3								
777	1980		254° 38'	+15.4°	9.0	TH	+9.9	+0.9		2371.2		+1	-1980	586,468	2,013,753		
778	2310		" "	" "	10.2	TH	+11.6	+1.4		2371.7		+1	-2310	586,468	2,013,423		
779	2640		" "	" "	10.9	TH	+13.3	+2.4		2372.7		+2	-2640	586,469	2,013,093		
780	2975		254° 29' 14"	+15.0	12.0	TH	+15.1	+3.1		2373.4	TP	-27	-2975	586,440	2,012,755	E.O.M.	
780	2975				14.4	89° 40'	+17.5	+3.1			TP						
	3960		74° 34' 48"	+15.0	+10.2	90° 06'	+6.6	+16.8			BS	-29	-3960				
	3960				+6.0	90° 10'	+11.2	+17.2		2390.4	BS	+1					
781	3630		74° 35'	+15.0	10.5	90° 07'	-7.1	-17.6		2372.8		+26	+3630	586,438	2,012,422		
781	3468		74° 46' 36"	" "	5.0	90° 12'	-11.9	-16.9		2373.5	#	+14	+3468	586,426	2,012,260	4-586,405 X-2,012,295 Hurry Int. EL. 2376.0	
782	3300		74° 35'	7.8	7.8	90° 10'	-9.4	-17.2		2373.2		+24	+3300	586,436	2,012,092		
783	2970		" "	" "	7.8	90° 10'	-8.5	-16.3		2374.1		+22	+2970	586,434	2,011,762		
784	2640		" "	" "	7.8	90° 10'	-7.5	-15.3		2375.1		+19	+2640	586,431	2,011,432		
785	2310		" "	+15.0	7.6	90° 10'	-6.7	-14.3		2376.1		+17	+2310	586,429	2,011,102		
786	1980		" "	" "	7.3	90° 10'	-5.8	-13.1		2377.3		+14	+1980	586,426	2,010,772		
787	1650		74° 35'	" "	6.9	90° 10'	-4.8	-11.7		2378.7		+12	+1650	586,424	2,010,442		
788	1320		" "	" "	6.9	90° 10'	-3.8	-10.7		2379.7		+10	+1320	586,422	2,010,112		
789	990		" "	+15.0	6.8	90° 10'	-2.9	-9.7		2380.7		+7	+990	586,419	2,009,782		
790	660		" "	" "	10.7	89° 46'	+2.7	-8.0		2382.4		+5	+660	586,417	2,009,452		
791	330		" "	" "	7.8	89° 46'	+1.3	-6.5		2383.9		+2	+330	586,414	2,009,122		

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
2-24-82		M. KWAPP		B. COCCAMP		6834		MPK Jm		3	56			
AREA		TOPO MAP		STATE		COUNTY		RANGE		PPM		PARTY MANAGER		
CALIFORNIA		CAL. CITY SOUTH 1/4		CALIF.		KERN						L. DAVIS		
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
									2390.4					
792	0				5.4	-		-5.4		2385.0	TP	0	0	586,412 2,008,192
793	330		254° 43'	+15.0	10.8	88° 46'	+7.1	-3.7		2386.7		-2	-330	586,410 2,008,462
794	371		253° 08' 12"	" "	10.4	88° 46'	+8.1	-2.3		2388.1	TP	-12	-371	586,400 2,008,415
794	660		254° 43'	" "	6.5	89° 30'	+5.8	-0.7		2389.7		-3	-660	586,409 2,008,132
795	990		" "	" "	7.5	89° 30'	+8.6	+1.1		2391.5		-5	-990	586,407 2,007,802
796	1320		" "	+15.0	8.5	89° 30'	+11.5	+3.0		2393.4		-7	-1320	586,405 2,007,472
797	1650		" "	" "	9.5	89° 30'	+14.4	+4.9		2395.3		-8	-1650	586,404 2,007,142
798	1980		" "	" "	10.8	89° 30'	+17.3	+6.5		2396.9		-10	-1980	586,402 2,006,812
799	2310		254° 43'	" "	11.7	89° 30'	+20.2	+8.5		2398.9		-11	-2310	586,401 2,006,482
800	2640		" "	" "	12.2	89° 30'	+23.2	+11.0		2401.4		-13	-2640	586,399 2,006,152
801	2970		" "	+15.0	13.3	89° 30'	+26.1	+12.8		2403.2		-15	-2970	586,397 2,005,822
802	3300		254° 42' 42"	+15.2	14.5	89° 30'	+29.0	+14.5	14.3	2404.7	TP	-5	-3300	586,407 2,005,499
802	3300				5.3	89° 40'	+19.4	+14.1			TP		+7	
	1979		73° 32' 55" +180	+15.2	+3.0	90° 30'	+17.3	+20.3		2425.0	BS	-43	-1978	
	1979				+8.8	90° 20'	+11.5	+20.3			BS		+7	
803	1649		73° 33'	+15.2	8.4	90° 20'	-9.6	-18.0		2407.0		+36	+1649	586,400 2,005,177
804	1319		" "	" "	8.1	90° 20'	-7.7	-15.8		2409.2		+29	+1319	586,393 2,004,847
795	1022		73° 46' 28"	" "	7.2	90° 20'	-5.9	-13.1		2411.9	TP	+18	+1022	586,382 2,004,550
805	989		73° 33'	" "	7.6	90° 20'	-5.8	-13.4		2411.6		+22	+989	586,386 2,004,517

y=586,400 x=2,008,415
EDM 4WAY INT. Horiz. Corf
y=+1'
x=-52'

EDM

EDM

EDM 4WAY INT.

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
2-25-82		B. Cotcamp		M. Knapp		6834		MPK Jrr		3		59			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
CALIF.		SAR BORN - 7 1/2		CALIF.		Kern								L. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									2474.8						
830	990		238° 15' 20"	+15.2°	9.3	89° 10'	+14.4	+5.1	2479.9	TP	-282	-949.	585,652	1,996,409	
830	990				12.2	89° -	+17.3	+5.1							TP
	1320		50° 30' 13" +180	+15.2°	+10.7	0M	+6.6	+17.3	2497.3	BS	-543,	-1203			
	1320				+9.7	90° 20'	+7.7	+17.4							BS
831	990		50° 14'	+15.2°	9.0	90° 20'	-5.8	-14.8	2482.5		+412	+900	585,520	1,996,106	
832	660		" "	"	7.4	90° 20'	-3.8	-11.2	2486.1		+274	+600	585,382	1,995,806	
833	330		" "	"	7.2	90° 20'	-1.9	-9.1	2488.2		+137	+300	585,245	1,995,506	
834	0				5.4	-	-	-5.4	2491.9	TP	0	0	585,108	1,995,206	
835	330		234° 58'	+15.2°	7.1	89° -	+5.8	-1.3	2496.0		-112	-310	584,996	1,994,896	
836	660		232° 55'	"	9.7	89° -	+11.5	+1.8	2499.1		-246	-612	584,862	1,994,594	
837	989		233° 10' 01"	"	12.6	89° -	+17.3	+4.7	2502.0	TP	-365,	-919	584,742	1,994,287	
837	989				9.7	89° 10'	+14.4	+4.7							TP
	660		50° 56' 43" +180	+15.2°	+9.9	-	-	+9.9	2511.9	BS	-267,	-604,			
	660				+13.2	TM	-3.3	+9.9							BS
838	330		49° 08'	+15.2°	6.5	-	-	-6.5	2505.4		+143	+297	584,617	1,993,981	
839	257		50° 21' 20"	"	6.7	-	-	-6.7	2505.2	TP	+106	+234	584,586	1,993,918	4 way int.
839	0				5.4	-	-	-5.4	2506.5	TP	0	0	584,474	1,993,684	
840	330		229° 56'	+15.2°	3.5	-	-	-3.5	2508.4		-139	-299	584,335	1,993,385	
841	659		230° 41' 17"	"	8.2	89° 26'	+6.5	-1.7	2510.3	TP	-269,	-601	584,204	1,993,084	
841	659				9.3	89° 20'	+7.7	-1.6							TP

y=584,595 x=1,993,905
4 way int.

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE	2-25-82	INSTRUMENT MAN	B. Cotamp	ROD MAN	M. Knapp	PARTY NUMBER	6834	NOTES CHECKED BY	MPC Jm	LINE NO.	3	PAGE	60	
AREA	CALIF.	TOPO MAP	SANBORN - 7 1/2	STATE	CALIF.	COUNTY	KERN	TWP		RANGE		PPM	PARTY MANAGER	L. Davis

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
										2510.3				
BS	659		50° 53' 22" +180	+15.2°	+11.3	-		+11.3	2521.6		BS	-267	-602	
BS	659				+14.6	TH	-3.3	+11.3			BS	-1	+1	
842	330		49° 39'	+15.2°	8.1	-		-8.1		2513.5		+140	+299	584,076 1,992,782
843	0				5.4	-		-5.4		2516.2	T	0	0	583,936 1,992,483
844	330		233° 53'	+15.2°	3.3	-		-3.3		2518.3		-118	-308	583,818 1,992,175
845	660		232° 04'	"	1.0	-		-1.0		2520.6		-255	-609	583,681 1,991,874
846	990		231° 48' 41"	"	2.8	TH	+5.0	+2.2		+2523.8	TP	-387	-911	583,548 1,991,573
846	990				3.6	89° 40'	+5.8	+2.2			TP	-1	+1	
	659		50° 14' 04" +180	+15.2°	+10.3	-		+10.3	2534.1		BS	-274	-599	
	659				+7.0	TH	+3.3	+10.3			BS		+1	
847	330		49° 11'	+15.2°	6.6	90° 10'	-1.0	-7.6		2526.5		+143	+298	583,416 1,991,273
71	330		50° 05' 30"	"	6.7	90° 10'	-1.0	-7.7		2526.4	T	+138	+300	583,411 1,991,275
848	0				6.15.4	-		-5.4		2528.7	T	0	0	583,273 1,990,975
849	330		233° 16'	+15.2°	6.1	89° 30'	+2.9	-3.2		2530.9		-121	-307	583,152 1,990,668
850	660		232° 18'		4.9	89° 30'	+5.8	+0.9		2535.0		-253	-610	583,020 1,990,365
851	990		232° 41' 30"	+15.5°	6.2	89° 30'	+8.6	+2.4			TP	-368	-919	582,904 1,990,057
851	990				9.0	89° 20'	+11.5	+2.5		2536.6	TP	-1	+1	
	988		52° 37' 14" +180	+15.5°	+12.7	-		+12.7	2549.3		BS	-368	-917	
	988				+7.8	TH	+4.9	+12.7			BS	-1	+1	

y-583,450 x-1,991,290
ROAD NORTH EL. 2524

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
2-25-82		B. Cotcamp		M. Knapp		6834		MPK <i>dm</i>		3	61						
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER						
CALIF.		SANBORN - 7 1/2		CALIF.		KERN					L. Davis						
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH +	EAST +	COORDINATES		REMARKS	
												SOUTH -	WEST -	Y	X		
									2549.3								
852	660		52° 59'	+15.5°	8.9	90° 10'	-1.9	-10.8		2538.5		+242	+614	582,777	1,989,755		
853	330		52° 09'	"	7.6	90° 10'	-1.0	-8.6		2540.7		+125	+305	582,660	1,989,446		
854	0				5.4	-		-5.4		2543.9	X	0	0	582,535	1,989,141		
855	330		232° 04'	+15.5°	3.1	90° 10'	-1.0	-4.1		2545.2		-126	-305	582,409	1,988,836		
856	520		229° 37' 03"	"	9.4	89° 10'	+7.6	-1.8		2547.5	≠	-219	-472	582,316	1,988,669	y-582,345 x-1,988,615 ≠ 4 way INT.	
856	660		229° 21'	"	8.7	89° 20'	+7.7	-1.0		2548.3		-279	-598	582,256	1,988,543		
857	989		229° 34' 07"	"	11.1	89° 20'	+11.5	+0.4		2549.7	TP	-417	-897	582,117	1,988,245		
857	989				8.3	89° 30'	+8.6	+0.3			TP		+1				
	660		52° 59' 05" +180	+15.5°	+9.2	-		+9.2	2558.9		BS	-242	-614				
	660				+12.5	TH	-3.3	+9.2			BS		+1				
858	330		52° 59'	+15.5°	8.1	-		-8.1		2550.8		+121	+307	581,995	1,988,939		
859	0				5.4	-		-5.4		2563.5	X	0	0	581,874	1,987,632	ACROSS STA.	
860	330		239° 55'	+15.5°	7.6	89° -	+5.8	-1.8		2557.1		-83	-319	581,791	1,987,313		
861	661		238° 05' 24"	"	12.7	89° -	+11.5	-1.2		2557.7	TP	-187	-634	581,686	1,986,999		
861	661				10.8	89° 10'	+9.6	-1.2			TP		+1				
	329		47° 34' 49" +180	+15.5°	+8.1	-		+8.1	2565.8		BS	-149	-293				
	329				+9.7	TH	-1.6	+8.1			BS		+1				
862	0				5.4	-		-5.4		2560.4	X	0	0	581,536	1,986,707		
863	330		235° 34'	+15.5°	3.9	TH	+1.7	-2.2		2563.6		-107	-312	581,429	1,986,395	LAST STA. ON RUN	

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
2-25-82		B. Cotcamp		M. Knapp		6894		MPK Jm		3		62			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
CALIF.		SAN BERN		CALIF.		KERN								L. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									2565.8						
864	632		220° 49' 43"	+15.5°	4.0	TH	+3.2	-2.8	}	2563.0	TP	-350	-526	581,185	1,986,182
864	632				6.5	89° 46'	+3.7	-2.8		TP			-1	+1	
	996		47° 51' 47" +180°	+15.5°	+11.6	-		+11.6	}	2574.6	BS	-444	-885		
	996				+14.4	89° 50'	-2.9	+11.5		BS			-1	+1	
865	660		50° 25'	+15.5°	9.9	-		-9.9		2564.7		+269	+603	581,009	1,985,901
866	330		52° 37'	"	6.6	-		-6.6		2568.0		+123	+306	580,863	1,985,604
867	0				5.4	-		-5.4		2569.2	T	0	0	580,740	1,985,298
868	330		239° 07'	+15.5°	4.0	TH	+1.7	-2.3		2572.3		-88	-318	580,652	1,984,980
869	660		238° 30'	"	2.8	TH	+3.3	+0.5		2575.1		-182	-634	580,558	1,984,664
870	990		" "	"	2.0	TH	+5.0	+3.0		2577.6		-273	-952	580,467	1,984,346
871	1320		237° 50' 02"	"	1.8	TH	+6.6	+4.8	}	2579.4	TP	-379	-1265	580,360	1,984,034
871	1320				6.8	89° 30'	+11.5	+4.7		TP			-1	+1	
	1650		55° 14' 54" +180°	+15.5°	+7.8	BM	+8.3	+16.1	}	2595.5	BS	-544	-1558		
	1650				+11.3	90° 10'	+4.8	+16.1		BS			-1	+1	
872	1320		55° 15'	+15.5°	6.0	90° 20'	-7.7	-13.7		2581.8		+435	+1246	580,250	1,983,723
873	990		" "	"	5.0	90° 20'	-5.8	-10.8		2584.7		+326	+935	580,141	1,983,412
874	660		54° 06'	"	5.1	90° 20'	-3.8	-8.9		2586.6		+230	+619	580,045	1,983,096
875	330		" "	"	6.6	-		-6.6		2588.9		+115	+309	579,930	1,982,786
876	0				5.4	-		-5.4		2590.1	T	0	0	579,815	1,982,477
877	330		232° 31'		3.2	-		-3.2		2592.3		-124	-306	579,691	1,982,171

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE						
2-25-82		B. Cotcamp		M. Knapp		6834		MPK JAV		3	63						
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER						
CALIF.		SANBORN-7 1/2		CALIF.		Kern					L. Davis						
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH +	EAST +	COORDINATES		REMARKS	
												SOUTH -	WEST -	Y	X		
									2595.5								
878	660		232° 31'	+15.5°	4.0	TM	+3.3	-0.7		2594.8		-247	-612	579,568	1,981,865		
879	990		" "	"	3.3	TM	+5.0	-1.7		2593.8		-371	-918	579,444	1,981,559		
880	1320		" "	"	7.8	89° 30'	+11.5	+3.7		2599.2		-494	-1224	579,321	1,981,253		
881	1650		" "	"	8.0	89° 30'	+14.4	+6.4		2601.9		-618	-1530	579,197	1,980,947		
882	1980		232° 20' 41"	+15.2°	9.0	89° 30'	+17.3	+8.3		2603.8	TP	-756	-1830	579,058	1,980,648		
882	1980				13.6	89° 22'	+21.9	+8.3			TP	-1	+1				
	989		56° 39' 15" +180°	+15.2°	+13.2	-		+13.2		2617.0	BS	-405	-902				
	989				+8.3	BM	+4.9	+13.2			BS	-1	+1				
883	660		49° 50'	+15.2°	9.1	90° 10'	-1.9	-11.0		2606.0		+279	+598	578,931	1,980,345		
884	330		48° 08'	"	6.7	90° 10'	-1.0	-7.7		2609.3		+148	+295	578,800	1,980,042		
885	0				5.4	-		-5.4		2611.6	T	0	0	578,652	1,979,747		
886	330		232° 58'	+15.2°	7.3	89° 10'	+4.8	-2.5		2614.5		-123	-306	578,529	1,979,441		
887	660		" "	"	8.8	89° 10'	+9.6	+0.8		2617.8		-245	-613	578,407	1,979,134		
888	990		233° 24' 58"	"	11.1	89° 10'	+14.4	+3.3		2620.3	TP	-361	-922	578,290	1,978,826		
888	990				8.3	89° 20'	+11.5	+3.2			TP	-1	+1				
	657		54° 52' 40" +180°	+15.2°	+10.2	-		+10.2		2630.5	BS	-224	-618				
	657				+13.4	TM	-3.3	+10.1			BS	-1	+1				
889	330		51° 18'	+15.2°	8.7	89° 40'	+1.9	-6.8		2623.7		+132	+303	578,197	1,978,512		
14	102		54° 46' 41"	"	5.9	89° 40'	+0.6	-5.3		2625.2		+35	+96	578,108	1,978,305	4-578,100 X-1,978,305 Y-INST. HORIZ. CORR	
890	0				5.4	-		-5.4		2625.1	T	0	0	578,065	1,978,209	V=-21 X=+19	

SURVEY NOTES-HIGH RESOLUTION DATA
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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
2-25-82		B. Cotcamp		M. Knapp		6834		MPK Jm		3		64			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
CALIF.		SANDORN - 7 1/2		CALIF.		Keen								L. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									2630.5						
891	330		232° 13'	+15.2°	5.8	89° 30'	+2.9	-2.9		2627.6		-127	-305	577,938	1,977,904
892	660		230° 14' 43"	" "	4.3	89° 30'	+5.8	+1.5		2632.0	TP	-274	-600	577,791	1,977,609
892	660				6.2	89° 20'	+7.7	+1.5			TP				
	660		53° 13' 14" +180°	+15.2°	+8.8	-		+8.8	2640.8		BS	-243	-614		
	660				+12.1	TM	-3.3	+8.8			BS	-1			
893	330		54° 37'	+15.2°	7.9	-		-7.9		2632.9		+114	+310	577,661	1,977,305
894	0				5.4	-		-5.4		2635.4	X	0	0	577,547	1,976,945
TP	400		170° 55' 13"	+15.2°	6.9	-		-6.9		2633.9	TP	-398	-43	577,148	1,976,952
TP	400				8.9	TM	+2.0	-6.9			TP	-1			SEC. CORN. EL. 2634.0
BS	624		94° 05' 50" +180°	+15.2°	+11.0	-		+11.0	2644.9		BS	+206	-589		
BS	624				+14.2	TM	-3.1	+11.1			BS	-1			
895	330		59° 42'	+15.2°	7.3	-		-7.3		2637.6		+86	+319	577,439	1,976,682
896	0				5.4	-		-5.4		2639.5	X	0	0	577,363	1,976,363
897	330		232° 17'	+15.2°	5.0	-		-5.0		2639.9		-126	-305	577,227	1,976,058
898	660		" "	" "	5.8	TM	+3.3	-2.5		2642.4		-253	-610	577,100	1,975,753
899	990		231° 24' 04"	" "	4.8	TM	+5.0	+0.2			TP	-393	-909	576,959	1,975,454
899	990				6.8	89° 36'	+6.9	+0.1		2645.0	TP	-1			
	1650		54° 44' 36" +180°	+15.2°	+11.2	TM	+8.3	+19.5			BS	-566	-1550		
	1650				+14.6	90° 10'	+4.8	+19.4	2664.4		BS				

SURVEY NOTES-HIGH RESOLUTION DATA
GEO-445

Geosource Inc.

DATE 2-26-82	INSTRUMENT MAN B. COTCAMP	ROD MAN M. KWAPP	PARTY NUMBER 6834	NOTES CHECKED BY MPL Jm	LINE NO. 3	PAGE 65
AREA CALIFORNIA	TOPO MAP SANBORN-7 1/2	STATE CALIF.	COUNTY KERN	TWP	RANGE	PPM
				PARTY MANAGER L. DAVIS		

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS	
												LAT.	DEP.	Y	X				
									2664.4										
900	1320		55° 09'		10.3	90° 20'	-7.7	-18.0		2646.4		+444	+1243	576,836	1,975,147				
901	990		55° 26'		9.1	90° 20'	-5.8	-14.9		2649.5		+328	+934	576,720	1,974,838				
902	660		" "		8.3	90° 20'	-3.8	-12.1		2652.3		+219	+623	576,611	1,974,527				
903	330		54° 38'		7.2	90° 20'	-1.9	-9.1		2655.3		+114	+310	576,506	1,974,214				
904	0				5.4	-		-5.4		2659.0	X	0	0	576,392	1,973,904				
905	330		235° 00'		7.1	89°	+5.8	-1.3		2663.1		-112	-310	576,280	1,973,594				
906	660		234° 27'		9.2	89°	+11.5	+2.3		2666.7		-230	-619	576,162	1,973,285				
907	990		233° 21'		11.3	89°	+17.3	+6.0		2670.4		-362	-921	576,030	1,972,983				
908	1317		232° 54' 20"		13.4	89°	+23.0	+9.6		2674.0	TP	-491	-1222	575,900	1,972,682				
908	1317				9.5	89° 10'	+19.1	+9.6			TP	-	-						
	990		51° 52' 33" + 180°		+9.8	BH	+5.0	+14.8			BS	-386	-912						
	990				+14.7	-		+14.7	2688.7		BS								
909	660		51° 54'		9.9	90° 10'	-1.9	-11.8		2676.9		+257	+608	575,710	1,972,378				
910	330		" "		8.7	-		-8.7		2680.0		+128	+304	575,641	1,972,074				
911	0				5.4	-		-5.4		2683.3	X	0	0	575,513	1,971,770				
911	175		237° 46' 17"		3.4	-		-3.4		2685.3	TP	-51	-167	575,462	1,971,603				Y=575,495 X=1,971,580 4 WAY INST.
912	330		238° 44'		5.8	89° 30'	+2.9	-2.9		2685.8		-91	-317	575,422	1,971,453				
913	660		" "		8.0	89° 30'	+5.8	-2.2		2686.5		-183	-634	575,350	1,971,136				
914	987		234° 02' 08"		8.3	89° 30'	+8.6	+0.3		2689.0	TP	-345	-925	575,167	1,970,845				
914	987				11.0	89° 20'	+11.5	+0.5			TP	-	-						

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
2-26-82		B. Cotcamp		M. Knapp		6834		MPK Jm		3	66.					
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER					
CALIF.		SAN BORN - 7 1/2'		CALIF.		KERN					L. DAVIS					
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	NORTH + SOUTH -	EAST + WEST -	COORDINATES		REMARKS
												LAT.	DEP.	Y	X	
										2689.0						
	990		53° 02' 31" +180	+15.5°	+14.5	-		+14.5	2703.5		BS	-362	-921			
	990				+9.6	BH	+5.0	+14.6		BS						
915	660		52° 36'	+15.5°	11.3	-		-11.3		2692.2		+246	+612	575,050	1,970,536	
916	330		51° 31'	+15.5°	8.3	-		-8.3		2695.2		+129	+304	574,933	1,970,228	
917	0				5.4	-		-5.4		2698.1	X	0	0	574,804	1,969,924	
918	330		230° 39'	+15.5°	2.5	-		-2.5		2701.0		-133	-302	574,671	1,969,622	
919	661		231° 47' 47"	" "	9.0	89° 16'	+9.6	+0.6			TP	-255	-610	574,548	1,969,314	
919	661			" "	11.0	89°	+11.5	+0.5		2704.0	TP	-1				
	660		52° 33' 26" +180	" "	+11.2	-		+11.2	2715.2		BS	-247	-612			
	660				+7.9	BH	+3.3	+11.2		BS						
920	330		52° 33'	+15.5°	8.4	-		-8.4		2706.8		+123	+306	574,423	1,969,608	
921	0				5.4	-		-5.4		2709.8	X	0	0	574,300	1,968,702	1st str. on
922	330		260° 13'	+15.5°	6.6	89°	+5.8	-0.8		2714.4		+33	-328	574,333	1,968,374	Road
923	659		254° 11' 50"	" "	9.1	89°	+11.5	+2.4		2717.6	TP	-3	-659	574,296	1,968,049	
923	659				11.0	88° 50'	+13.4	+2.4			TP	-1				
	990		70° 16' 49" +180	+15.5°	+14.7	-		+14.7	2732.3		BS	-73	-987			
	990				+9.9	BH	+5.0	+14.9		BS						
924	660		70° 03'	+15.5°	11.3	-		-11.3		2721.0		+51	+658	574,273	1,967,714	
925	330		69° 53'	" "	9.9	TH	+1.7	-8.2		2724.1		+27	+329	574,249	1,967,385	
926	0				5.4	-		-5.4		2726.9	X	0	0	574,222	1,967,056	

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
2-26-82		B. Cotamp		M. Knapp		6834		MPK dm		3		67			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
CALIF.		SANBORN - 7 1/2'		CALIF.										L. Davis	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									2732.3						
927	330		253° 37'	+155°	7.8	89°	+5.8	-2.0		2730.3		-5	-330	574,217	1,966,726
928	660		252° 56'	" "	10.3	89°	+11.5	+1.2		2733.5		-18	-660	574,204	1,966,396
929	988		251° 57' 31"	" "	12.2	89°	+17.2	+5.0	}	2737.3	TP	-44	-987	574,177	1,966,089
929	988				9.3	89° 10'	+14.4	+5.1			TP	-1			
	990		71° 17' 23" +180°	+155°	+14.0	-		+14.0	}	2751.3	BS	-55	-988		
	990				+9.1	BH	+5.0	+14.1			BS	-1			
930	660		71° 03'	+155°	11.0	-		-11.0		2740.3		+40	+659	574,161	1,965,740
931	330		" "	" "	7.3	-		-7.3		2744.0		+20	+329	574,141	1,965,410
932	0				5.4	-		-5.4		2745.9	T	0	0	574,121	1,965,081
933	330		254° 13'	+155°	4.2	TH	+1.7	-2.5		2748.8		-12	-330	574,119	1,964,751
934	660		" "	" "	4.1	TH	+3.3	-0.8		2750.5		-3	-660	574,118	1,964,421
935	990		254° 13' 25"	" "	11.5	89° 10'	+14.4	+2.9	}	2754.2	TP	-5	-990	574,115	1,964,092
935	990				8.6	89° 20'	+11.5	+2.9			TP	-1	+1		
	1320		72° 17' 45" +180°	+155°	+14.6	-		+14.6	}	2768.8	BS	-51	-1319		
	1320				+8.0	BH	+6.6	+14.6			BS	-1	+1		
936	990		76° 47'	+155°	11.6	-		-11.6		2757.2		+64	+988	574,127	1,963,762
937	660		71° 22'	" "	9.0	-		-9.0		2759.8		+36	+659	574,099	1,963,433
938	330		71° 35'	" "	7.0	-		-7.0		2761.8		+17	+330	574,080	1,963,104
939	0			" "	5.4	-		-5.4		2763.4	T	0	0	574,063	1,962,774
940	330		252° 59'	" "	3.9	-		-2.9		2765.9		-9	-330	574,054	1,962,444

SANBORN QUAD

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
2-26-82		B. Cotnam		M. Knapp		6834		MPK Jm		3	66					
AREA		TOPO MAP	STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
CALIF.		MOJAVE - 7 1/2'	CALIF.	Kern					L. Davis							
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
									2768.8							
941	660		251° 57'	+15.5°	4.0	TH	+3.3	-0.7		2768.1		-29	-659	574,034	1,962,115	↑ MOJAVE QUAD
942	990		252° 05'	" "	6.6	89° 20'	+8.6	+2.0		2770.8		-42	-989	574,021	1,961,785	
943	1320		252° 07'	" "	6.5	89° 30'	+11.5	+5.0		2773.8		-55	-1319	574,008	1,961,455	
944	1650		" "	" "	7.6	89° 30'	+14.4	+6.8		2775.6		-69	-1649	573,994	1,961,125	E.O.M. Y-574,000
TP	1920 1917		251° 48' 02"	" "	11.6	89° 26'	+19.0	+7.4	}	2776.2	±	-90	-1915	573,972	1,960,860	± T INT. EL. 2775.0
TP	1920 1917				14.8	89° 26'	+22.3	+7.5		±			-1	+1		
R	±	INTERSECT EL. 2775.0								2775.0	K1					± T INT. EL. 2775.0
	3692		72° 54' 37" +180°	+15.5°	+15.0	90° 12' 40"	+13.3	+28.3	}	2803.3	BS	-102	-3691			
	3692			+15.5°	+16.5	90° 17'	+18.0	+28.5		BS			-2	+1		
945	3629		72° 44'	" "	10.2	90° 16'	-16.6	-26.8		2776.5		+112	+3627	573,980	1,960,797	
946	3300		" "	" "	9.3	90° 16'	-15.1	-24.4		2778.9		+102	+3298	573,970	1,960,468	
947	2970		" "	" "	10.0	90° 16'	-13.6	-23.6		2779.7		+92	+2969	573,960	1,960,139	
948	2640		" "	" "	10.1	90° 16'	-12.1	-22.2		2781.1		+81	+2639	573,949	1,959,809	
949	2310		72° 44'	+15.5°	9.5	90° 16'	-10.7	-20.2		2783.1		+71	+2309	573,939	1,959,479	
950	1980		" "	" "	9.2	90° 16'	-9.2	-18.4		2784.9		+61	+1979	573,929	1,959,149	
951	1650		" "	" "	11.9	90° 10'	-4.8	-16.7		2786.6		+51	+1649	573,919	1,958,819	
952	1320		" "	" "	11.1	90° 10'	-3.8	-14.9		2788.4		+41	+1319	573,909	1,958,489	
953	990		" "	" "	10.2	90° 10'	-2.9	-13.1		2790.2		+31	+990	573,899	1,958,160	
954	660		" "	+15.5°	8.7	90° 10'	-1.9	-10.6		2792.7		+20	+660	573,888	1,957,830	
955	330		" "	" "	6.9	90° 10'	-1.0	-7.9		2795.4		+10	+330	573,878	1,957,500	

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
2-26-82		B. Cotamp		M. Knapp		6934		MPK Lm		3		69			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
CALIF.		MOJAVE - 7 1/2		CALIF		KERN								L. DAVIS	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									2803.3						
956	0				5.4	-		-5.4		2797.9	TP	0	0	573,868	1,957,170
957	330		252° 52'	+15.5°	6.3	89° 20'	+3.8	-2.5		2800.8		-9	-330	573,859	1,956,840
958	660		" "	" "	7.4	89° 20'	+7.7	+0.3		2803.6		-19	-660	573,849	1,956,510
959	990		" "	" "	8.2	89° 20'	+11.5	+3.3		2806.6		-28	-990	573,840	1,956,180
960	1320		" "	" "	9.0	89° 20'	+15.4	+6.4		2809.7		-38	-1319	573,830	1,955,851
961	1650		" "	+15.5°	9.8	89° 20'	+19.2	+9.4		2812.7		-47	-1649	573,821	1,955,521
IF	1721		252° 30' 44"	" "	9.7	89° 20'	+20.0	+10.3		2813.6	IF	-60	-1720	573,808	1,955,450
962	1980		252° 52'	" "	9.9	89° 20'	+23.0	+13.1		2816.4		-56	-1979	573,812	1,955,191
963	2310		" "	" "	8.5	89° 20'	+26.9	+18.4		2821.7		-66	-2309	573,802	1,954,861
964	2640		253° 07'	+15.5°	7.1	89° 20'	+30.9	+23.8		2827.1		-64	-2639	573,804	1,954,531
965	2970		253° 09'	" "	6.3	89° 20'	+34.7	+28.4		2831.7		-70	-2969	573,798	1,954,201
966	3360		253° 14' 16"	" "	5.5	89° 20'	+38.6	+33.1		2836.4	TP	-73	-3299	573,793	1,953,872
966	3300				14.9	89° 16'	+48.2	+33.3			TP	-2	+1		
	330		73° 29' 15" +180°	+15.5°	+9.2	-		+9.2	2845.6		OS	-6	-330		
	330				+7.5	Bm	+1.7	+9.2			OS	-2	+1		
967	0				5.4	-		-5.4		2840.2	TP	0	0	573,785	1,953,543
TP	300		253° 10' 68"	+15.5°	3.2	-		-3.2		2842.4	TP	-7	-300	573,778	1,953,243
968	330		256° 16'	" "	3.0	-		-3.0		2842.6		+10	-330	573,795	1,953,213
Bm	281		378° 46' 35"	" "	1.4	TH	+1.4	+0.0		2845.6	Bm	+280	-28	574,065	1,953,515

y-573,855 x-1,955,440

T-ROAD NORTH

E.O.M.

y-573,790
T-INT. x-1,953,220

E.O.L. Line #3

BENCH MARK EL. 2844.0
y-574,065 Horiz y-24
x-1,953,315 CORR. x-+6